Monthly Summary Report No. 16 – Wainfleet Central Fire Station

| Project: | Wainfleet Fire Station – 42143 Highway #3, Wainfleet ON, LOS 1V0 | | | | |
|-------------------|--|--|--|--|--|
| Owner: | Township of Wainfleet | | | | |
| Contract: | General Construction (GC) – Stipulated Price Contra | ct (CCDC2) with Amendments | | | |
| Contractor: | TRP Construction General Contractors – 3050 Harves | ster Rd Unit 107, Burlington, ON L7N 3J1 | | | |
| Reporting Period: | August 1 st , 2023, to August 31 st , 2023 | | | | |
| Prepared By: | Urban & Environmental Management Inc. – 4701 St. | Urban & Environmental Management Inc. – 4701 St. Clair Ave. Suite 301, Niagara Falls | | | |
| Report Date: | September 14 th , 2023 UEM Project #21-800 | | | | |
| Circulation: | Township of WainfleetMorgan AlcockMallory LueyShawn ShuttenWilliam KolasaRichard NanKolasa | Revision: Final | | | |

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1.0 PROJECT BUDGET

The project budget (excluding HST) for the Wainfleet Central Fire Station includes:

| Construction (TRP Contract) | \$5,950,000 |
|--------------------------------------|-------------|
| Contract Allowances | \$325,000 |
| Contract Award | \$6,275,000 |
| Construction Contingency | \$299,000 |
| Pre-Construction Township Activities | \$8,100 |
| Owners Allowances | \$686,100 |
| Advisory Services | \$390,700 |
| Project Budget | \$7,658,900 |

2.0 PROJECT SCHEDULE

2.1. MONTHLY SCHEDULE

The contract requires that an updated schedule be submitted by the contractor monthly.

TRP Construction provided a baseline project schedule on May 18th, 2022. An updated schedule (November 25th, 2022) revised the completion date of the load bearing masonry task and shortened the duration for completion of roof truss and roofing tasks. The revisions did not change the anticipated substantial completion date of June 9th, 2023.

The latest schedule received from the contractor on May 31st, 2023, has been exceeded. This schedule noted substantial completion date and occupancy dates of June 28th and June 29th, 2023. UEM has requested and continues to press the contractor for an updated close-out schedule that details the outstanding activities with appropriate durations and realistic completion dates.

Based on recent site meetings and verbal updates from the contractor, UEM estimates that substantial completion could be achieved by October 2023. Several key items are required for the building's occupancy permit. Additionally incomplete/deficient work is outstanding which prevents the building from being fit for its intended use, delaying the certification of substantial performance. A preliminary deficiency list was shared to the contractor on August 22nd, 2023. Major issues include: exterior siding, flooring, interior masonry, electrical finishes, and site works.

Contractor and subtrade performance have not been satisfactory, resulting in poor performance of the work, requiring multiple returns to site to correct already completed work. The current subtrade labour market is saturated with work, resulting in delays waiting for trades to return to site.



2.2. SUBSTANTIAL COMPLETION AND OCCUPANCY

Substantial Completion as defined by the Ontario Architects Association, Ontario General Contractors Association, and the Construction Lien Act (as amended April 19th, 2021) state a project is substantially complete if: (1) the building must be completed for its intended use, and (2) it meets the financial requirements of the Act (uncompleted and deficient work shall be less than 3% for the contract's first \$1,000,000, 2% for the second \$1,000,000, and 1% of the remainder).

Based on the approved contract cost of \$6.3M, the amount remaining to achieve Substantial Completion would need to be less than \$93,000 (\$30,000, \$20,000, \$43,000).

Occupancy is a separate decision/process from the substantial completions process. Occupancy is granted by the host municipality (Wainfleet) and could involve full or partial occupancy before or after substantial completion is certified.

The owner must have insurances in place for both partial and full occupancy or when substantial completion is certified.

2.3. TOWNSHIP RESPONSIBILITIES

The TRP construction contract includes the building, all infrastructure, and finishes; however, excludes several operational items/tasks that the Township is responsible for completing or procuring. The following items are dependent on the contractor finishing the building to the level of being fit for its intended use as an emergency response station.

- Office Equipment
- Communication Radios & Public Address Systems
- Maintenance Tools & Equipment
- SCBA Compressor & Fill Station

2.4. MONITORING CONSTRUCTION PROGRESS

UEM works closely with the contractor administrator to monitor the construction progress against the project schedule on an ongoing basis, reviewing milestones, deliveries, commencing work, completed work, outstanding issues, deficiencies, and project risks.

When there is a suspected or actual variance in the project schedule, we evaluate the cause of the variance, impact on the budget and the owners needs and where necessary prepare a corrective action plan.



2.5. SUMMARY OF KEY DATES

| CONSTRUCTION ACTIVITY | ESTIMATED DATE COMPLETE |
|------------------------------------|---|
| Construction Tender Issued | February 10 th , 2022 |
| Construction Tender Public Opening | March 22 nd , 2022 |
| Contractor Mobilization | May 3 rd , 2022 |
| Demolition of Barn and House | June 3 rd , 2022 |
| Strip & Grade Building Pad | July 7 th , 2022 |
| Footings & Foundation Walls | July 18 th , 2022 |
| Parking Lot Prep & Granular | August 5 th , 2022 |
| In-Floor Heating Rough-in | October 19 th , 2022 |
| Slab on Grade | October 24 th , 2022 |
| Structural Masonry Block | December 1 st , 2022 |
| Roof Trusses | December 16 th , 2022 |
| Mechanical Rough ins | January 19 th , 2022 |
| Electrical Rough ins | January 19 th , 2022 |
| Aluminum Windows | March 13 th , 2023 |
| Drywall | April 14 th , 2023 |
| Overhead Doors | May 12 th , 2022 |
| Millwork | May 16 th , 2023 |
| Plumbing Fixtures | June 14 th , 2022 |
| Permanent Power | June 14 th , 2022 |
| Concrete Curbs and Sidewalks | June 16 th , 2023 |
| Electrical Devices & Fixtures | June 19 th , 2022 |
| Asphalt Paving – Base Course | June 21 st , 2023 |
| Fire Alarm Verification | August 3 rd , 2023 |
| Planting, Seed, Sod | June 22nd, 2023 Sept. 2023 |
| Occupancy | J une 28th, 2023 Sept. 2023 |
| Vinyl Plank Flooring | June 28th, 2023 Oct. 2023 |
| Substantial Completion | June 29th, 2023 Oct. 2023 |

On August 30th, 2023, the contractor advised twenty-four (24) working days lost due to inclement weather and difficult working conditions in the inclement weather since the beginning of the project. The Project Manager reviews lost weather days with the contractor weekly and reports to the Township every other week. The number of lost weather days recorded from windy, wet, and hot weather is confirmed and the potential effect is considered in the contractor's updated schedule. To date there has not been a material impact on the project schedule.

Construction Site meetings have concluded; site reviews are coordinated on an as-needed basis.



3.0 FRONT END DOCUMENTATION AND RESPONSIBILITIES

New and renovated construction projects can require several pre-approvals and documentation prior to and during construction. Following is a brief checklist of the more common project front end responsibilities required as part of the contract at the provincial and regional/municipal levels.

3.1. BUILDING PERMIT & SITE PLAN APPROVAL

Township of Wainfleet Plan Agreement

• Completed

Township of Wainfleet Building Permit

• **Completed** (May 26th, 2022)

Ministry of Transportation Ontario (MTO) Land Use Permit

• **Completed** (May 16th, 2022)

3.2. GENERAL REQUIREMENTS

The contractor is required to prepare a project specific "health and safety" plan for review by the Township and posted at the project site. The contractor is to provide safety training to trades and representatives that intend to access the project site.

✓ Completed

The contractor will engage the municipal building inspector and Fire Department at the beginning of the project to review building exits, fire access and other code matters.

✓ Completed

The contractor will provide prior to construction, a Gantt chart in sufficient detail to track (and update) progress and a cash flow forecast.

✓ **Completed** – Updates Outstanding Since May 2023

Fire & Life Safety plan prior to occupancy.

• Not Required

3.3. Environmental Requirements & Approvals

Ontario Regulation 102/94 – "Waste Audits and Waste Reduction Work Plans" mandates that a project consisting of the construction of one or more buildings with a total floor area of at least 2,000 square meters requires the contractor to:

- Conduct a pre-construction waste audit
- Prepare a written waste reduction plan based on the waste audit to reduce, reuse and recycle waste to be generated at the construction project
- Implement the waste reduction plan
 - **Not Required** Project less than 2,000 square meters



Renovation or demolition of buildings constructed prior to approximately 1979 require a project specific designated substance survey prior to construction. If hazardous or designated substances are identified, then remediation must be undertaken prior to the construction/renovation.

 Completed – Designated Substance & Hazardous Material Evaluation report issued by Ontario Environmental & Safety Network Ltd. On March 5th, 2020. Materials containing asbestos were found and abated in the structures to be demolished.

3.4. SERVICES FROM OTHER AGENCIES

Electrical Connections – Hydro One

• **Complete** – Building energized June 2023

TSSA Certification – The contractor, subcontractor(s) and manufacture(s) are contractually obligated to complete required certification forms. Owner signature required for submission to TSSA.

• Incomplete - Schedule TBD

Supply natural gas to the Wainfleet Fire Station – Enbridge Gas

• **Complete** - meter installed early May 2023

Internet Services Provider

• **Complete** – Point-to-Point tower connectivity online August 3rd, 2023

4.0 MAJOR ACTIVITIES COMPLETED/ONGOING

April 1st to May 31st, 2022

- Contractor mobilized (May 2nd, 2022)
- Permits issued
- Demolition of existing structures commenced

June 1st to June 30th, 2022

- Strip and stockpile topsoil
- Removal of trees, stumps, fencing
- Excavation for footings
- Commence forming of footings

July 1st to July 31st, 2022

- Footings and foundation walls complete
- Damp proofing complete
- Slab backfill complete
- Pond infill complete
- Septic bed constructed, and tank installed

August 1st to August 31st, 2022

- Electrical underground complete
- Mechanical underground complete
- Road and parking lot granular complete



September 1st to September 30th, 2022

- Apparatus bay trench drains complete
- Roof trusses delivered
- Under slab insulation complete
- Floor slab reinforcing complete

October 1st to October 31st, 2022

- In-floor radiant heat piping complete
- Floor slab complete
- Structural steel columns completed
- Load bearing masonry commenced

November 1st to November 30th, 2022

- Load bearing masonry ongoing
- Electrical rough-ins within masonry
- Mechanical rough-ins within masonry

December 1st to December 31st, 2022

- Load bearing masonry complete
- Roof trusses and sheathing complete
- Mezzanine stair and metal decking installed
- Attic space electrical conduit installed
- Roof membrane commenced

January 1st to January 31st, 2023

- Roof fascia framing complete
- Mezzanine concrete poured
- Roof membrane complete on Administration side
- Attic fire block complete on Administration side
- Underside of truss drywall complete on Administration side
- Mechanical and electrical rough-ins on going

February 1st to February 28th, 2023

- Roof watertight
- Non-load bearing masonry commenced
- Ductwork installation commenced
- Exterior spray foam insulation compete on Administration side
- Mechanical and electrical rough-ins on going

March 1st to March 31st, 2023

- Glazing installed
- Non-load bearing masonry completed
- Mechanical equipment in mechanical room underway
- Electrical switchgear and transfer switch installed
- Painting commenced
- Exterior masonry commenced



April 1st to April 30th, 2023

- Brick veneer completed
- Floor polishing in Administration completed
- Metal roofing commenced
- Fire cisterns installed
- Gas meter/station installed
- Apparatus bay ceiling commenced

May 1st to May 31st, 2023

- Potable water cistern installed
- Metal roofing complete
- Siding commenced
- Drywall ceilings complete
- Second coat of paint complete
- Apparatus bay doors installed
- Administration millwork completed
- Mechanical equipment installation ongoing
- Electrical devices installation commenced

June 1st to June 30th, 2023

- Concrete curbs and sidewalks complete
- Base course asphalt complete
- Generator installed
- Permanent power connected
- Light fixture installation
- Plumbing fixture installation
- Soffit installation commenced
- Floor polishing apparatus bay commenced

July 1st to July 31st, 2023

- Washroom fixtures and partitions installed
- Generator installation complete
- IT room complete
- Fire alarm devices installed
- Bunker gear racks installed
- Bollards and fencing installed

August 1st to August 31st, 2023

- Potable water pump installed
- Fire cistern pump installed
- Mechanical controls installed
- IT network online
- Security cameras installed
- Appliances delivered



5.0 FORECASTED CASH FLOW

The TRP Construction contract includes the Wainfleet Central Fire Station construction (\$5,950,000) and allowances (\$325,000) for Testing and Inspection, Door Hardware, Interior Signage, Hydro & Gas Services, Security, Construction Rubble, Window Covers, Project Sign Board, and Commissioning for a total project budget of \$6,275,000. Projected cash flow (excluding HST) for monthly TRP Construction contract draws follows.

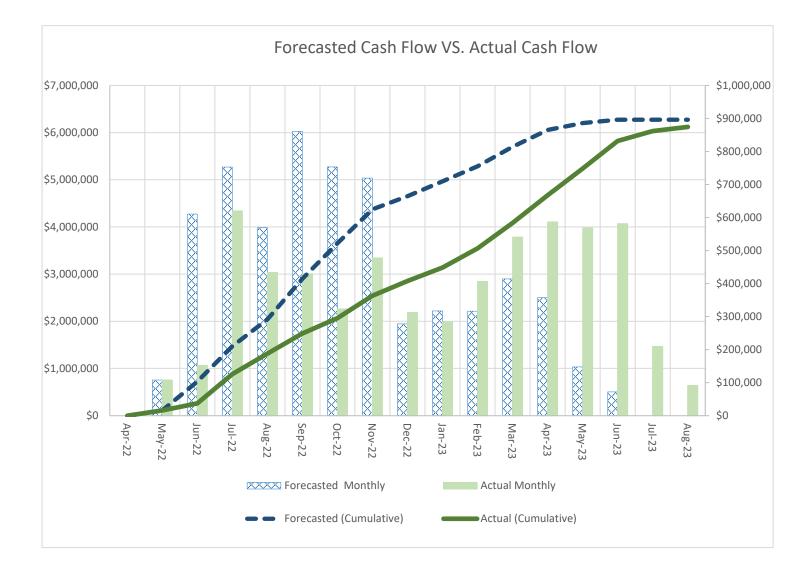
Projected and Actual Cumulative cash flow includes the total monthly amount Certified. The "actual monthly" and "actual cumulative" is before 10% of the certified amount is deducted for statutory holdback. It is also exclusive of HST. The cash flow forecast was issued by TRP Construction on May 31st, 2022. The forecasted cashflow include the contract allowances and does not include change orders.

Also included is a month by month (non-cumulative) actual and forecasted cashflow.

| Construction Period Ending | Forecasted Cumulative – May 31 st , 2022 (Exc. HST) | Actual Monthly (Exc. HST & Inc. 10% Holdback) | Actual Cumulative (Exc. HST & Inc. 10% Holdback) | | | | |
|-------------------------------|--|--|--|--|--|--|--|
| | 2022 | | | | | | |
| May | \$107,900 | \$107,900 | \$107,900 | | | | |
| June | \$718,400 | \$151,984 | \$259,884 | | | | |
| July | \$1,471,300 | \$619,803 | \$879,687 | | | | |
| August | \$2,040,300 | \$433,571 | \$1,313,257 | | | | |
| September | \$2,900,950 | \$429,263 | \$1,742,520 | | | | |
| October | \$3,654,350 | \$322,973 | \$2,065,493 | | | | |
| November | \$4,373,750 | \$477,447 | \$2,542,940 | | | | |
| December | \$4,651,550 | \$321,219 | \$2,855,160 | | | | |
| | | 2023 | | | | | |
| January | \$4,968,550 | \$283,731 | \$3,138,890 | | | | |
| February | \$5,284,550 | \$406,077 | \$3,544,967 | | | | |
| March | \$5,698,717 | \$540,286 | \$4,085,252 | | | | |
| April | \$6,055,800 | \$586,702 | \$4,671,954 | | | | |
| May | \$6,203,000 | \$568,279 | \$5,240,232 | | | | |
| June | \$6,275,000 | \$581,284 | \$5,821,517 | | | | |
| July | \$6,275,000 | \$209,686 | \$6,031,203 | | | | |
| August | - | \$91,378 | \$6,122,590 | | | | |
| September | - | | | | | | |

Note: The forcasted cashflow includes the upset limit for contract allowances.





Cashflow Commentary: UEM raised concerns to the contractor in November 2022 about the lagging actual cashflow against the forecasted cashflow. This is a concern as it is an indicator that the project may be behind schedule. The contractor provided background information explaining the trailing trend. This project has several large cost items, anticipated by the contractor to be procured or completed earlier in the project. The fire cisterns and associated work is valued at approximately two hundred thousand dollars and scheduled to be complete in Summer of 2022. This work delayed until Spring 2023 was completed in April 2023. The delays in underground mechanical rough-ins pushed the entire schedule back, impacting several high cost tasks such as the masonry, and roofing, both completed in May 2023.

The above graph shows that the contractor's draws increased February through May 2023, as anticipated, as the large cost items were completed. As of August 31st, budget and cost are close to and the amount of dollars yet to spent will support the financial requirements for substantial completion in September or October.



6.0 PROPOSED CHANGE ORDERS (PC)

| Proposed Change | Date Issued | SI /RFI | Description of PCO | Status |
|--------------------|-------------|---------|--|------------------|
| PC 1.0 | May 18/22 | - | Add Hot Water line and Power to Future Washer | CO-3.0 |
| PC 2.0 | May 19/22 | - | Remove Lights for SB-10 | CO-6.0 |
| PC 3.0 | Jun. 8/22 | - | Add ATS Bypass Switch and Power to Extractors | CO-5.0 |
| PC 4.0 | Jun. 23/22 | - | Revised Light Fixture Type | CO-4.0 |
| PC 5.0 | Jul. 14/22 | - | Extractor Discharge Tank, Duct Bank Relocation, SP-D Power | CO-11.0 |
| PC 6.0 | Jul. 25/22 | - | Revised Sewer & Water Pipe Sizing | CO- 7.0 & 7.1 |
| PC 7.0 | Jul. 26/22 | - | Roof Gable End | CO-9.0 |
| PC 8.0 | Jul. 28/22 | - | Add Services Chase in Bunker Gear Room | CO-12.0 |
| PC 9.0 | Aug. 3/22 | - | Remove Electronic Plumbing Fixtures | CO-15.0 |
| PC 10.0 | Sept. 7/22 | - | Structural Steel Revisions | CO-18 |
| PC 11.0 | Sept. 15/22 | - | Kitchen Grease Interceptor | CO 19.0 |
| PC 12.0 | Oct. 11/22 | - | New Concrete Pad and Splash Pad | N/A |
| PC 12.1 | Nov. 7/22 | - | New Concrete Pad and Splash Pad & Cistern Revisions | CO-22.0 |
| PC 13.0 | Oct. 11/22 | - | Electrical Pull Vault | CO-29.0 |
| PC 14.0 | Nov. 21/22 | - | Truss Anchorage | CO-21.0 |
| PC 15.0 | Nov.23/22 | - | Controls & High-Water Alarm | CO-31.0 |
| PC 16.0 | Jan. 3/23 | - | Thermostat Wiring | CO-33.0 |
| PC 17.0 | Jan. 17/23 | - | Exterior Lighting Controls | CO-23.0 |
| PC 18.0 | Jan. 24/23 | - | Soft Starter for pump SP-02 and Controller | CO-30.0 |
| PC 19.0 | Feb. 3/23 | - | Exterior Lighting, Signage, Network Cabling, Conduit, and Mezzanine Floor Finish | CO-32.0 |
| PC-20.0 | Feb. 21/23 | - | Primary Wiring to Transformer | AD-14 |



| PC-21.0 | Mar. 2/21 | - | Excess Soil/Clay | Cancelled |
|-----------|------------|---|--|--------------------------|
| PC-22.0 | Mar. 8/22 | - | New pad for 40' Container & Concrete Pad Removal | N/A |
| PC-22.0R1 | Mar. 22/23 | - | New pad for 40' Container & Concrete Pad Removal | CO-34.0 |
| PC-23.0 | Apr. 11/23 | - | New Outlets in Offices | CO-35.0 |
| PC-24.0 | Apr. 11/23 | - | SCBA Washer Water Line Modifications | CO-38.8 |
| PC-25.0 | Apr. 17/23 | - | CO and NOx Sensor – Option 1 & 2 | Cancelled for PC-29.0 |
| PC-26.0 | Jun. 19/23 | - | Apparatus Bay Ceiling Fan | CD-1.0 |
| PC-27.0 | Jun. 22/23 | - | IT Room Power | CO-42.0 |
| PC-28.0 | Jun. 27/23 | - | Female Washroom Outlet | CO-40.0 |
| PC-29.0 | Jun. 28/23 | - | CO and NOx Sensor – Option 3 | CO-47 |
| PC-30.0 | Jul. 6/23 | - | Door D8-04 Hardware Revision | CO-44.0 |
| PC-31.0 | Jul. 10/23 | - | Fire Cistern Draft Pipe | CO-46.0 |
| PC-32.0 | Jul. 17/23 | - | Data Cabling | CO-45.0 |
| PC-33.0 | Aug. 9/23 | - | Combustion Air Intake | - |
| PC-34.0 | Sept. 6/23 | - | Carpet Tile and Vinyl Plank Flooring | - |

7.0 REQUEST FOR CHANGES (RFCO) – CONTRACTOR

| Proposed Change | Date Issued | Description of PCO | Status |
|--------------------|-------------|--|-------------------------|
| RFCO-01 | May 30/22 | Upsize Septic Tank from 6,800L to 18,000L | CO-2.0 |
| RFCO-02 | May 30/22 | ATS Single Bypass Switch | Cancelled for PC 3.0 |
| RFCO-03 | Jun. 3/22 | Credit for Hydro One Application Fees Paid by Town | CO-1.0 |
| RFCO-04 | Jun. 13/22 | Proposed Alternative Ceramic Floor Tile | Cancelled |
| RFCO-05 | Jun. 13/22 | Revised Light Fixture Type | Cancelled for PC 4.0 |
| RFCO-06 | Jul. 6/22 | Light Fixture Revisions | - |
| RFCO-07 | Aug. 10/22 | Delete Base Cabinet | CO-8.0 |
| RFCO-08 | Aug. 11/22 | Siding Foam Closure | CO-10.0 |
| RFCO-09 | Aug. 22/22 | Revise Solid Surface to Laminate | CO-13.0 |
| RFCO-10 | Aug. 24/22 | Delete Roll-up Door in Kitchen | CO-14.0 |
| RFCO-11 | Nov. 9/22 | Floor Drain Change | CO-20.0 |
| RFCO-12 | Jan. 20/23 | Hydro cost Credit to Township | CO-24.0 |
| RFCO-13 | Jan. 26/23 | Revise Door to Mechanical Room (SI-9.0) | CO-25.0 |
| RFCO-14 | Feb. 1/23 | New Electrical Outlets (SI-8.0) | CO-26.0 |
| RFCO-15 | Feb. 6/23 | Mezzanine Gate | CO-27.0 |
| RFCO-16 | Feb. 17/23 | Additional Attic Duct Insulation | CO-28.0 |
| RFCO-18 | May 1/23 | Window Passthrough Detail | CO-39.0 |
| RFCO-19 | May 12/23 | IT Room Ceiling | CO-36.0 |
| RFCO-20 | May 17/23 | Drywall Bulkhead – Bunkergear Room | CO-37.0 |
| RFCO-21 | Jul. 11/23 | Corridor Bulkheads | CO-41.0 |
| RFCO-22 | Jul. 13/23 | ERV Control Valve | - |



| RFCO-23 | Aug. 18/23 | Emergency Lighting Battery Pack | - |
|---------|------------|---------------------------------|---|
|---------|------------|---------------------------------|---|

8.0 POTENTIAL CHANGES OF SIGNIFICANCE

The proposed change order (PC), request for change order (RFCO), and change directive (CD) process often involves multiple quote submissions, requests for further detail, clarifications and negotiations before costing is finalized as a change order or the request is rejected.

CO and NO2 Sensors (PC-29): initial cost submissions from the contractor are around \$14,000. These sensors are a Ministry of Labour requirements that was missed on the issued for construction drawings and specifications.

Although there are a number our outstanding PC's awaiting costing, none are anticipated to be large in cost.

9.0 APPROVED CHANGE ORDERS (CO)

The total cost of approved Change Orders and Change Directives is a cost of \$124,589.15 which is approximately 2.0% of the awarded contract cost (\$6,275,000). Changes required because of design team issues is 2.73% of the Total Contract Cost.

| Type of Change Order | Cost of Changes to Date | Percent of Total Change Orders | Percent of Contract Cost (\$6,275,000) |
|---|-------------------------------|--------------------------------------|--|
| Soil Conditions | \$0.00 | 0.0% | 0.0% |
| Design Team: Errors, Omissions, Changes | \$171,565.32 | 97.3% | 2.73% |
| Owner Requested | \$4,683.16 | 2.7% | 0.07% |
| Address Existing Conditions | \$0.00 | 0.0% | 0.0% |
| Credits | (\$51,659.33) | N/A | N/A |
| Total Change Orders to Date | \$124,589.15 | | |

To assist in reviewing the scope and nature of change orders, each are summarized as follows:

9.1. SOIL CONDITIONS

| CO # | Change Orders to Original Contract | PC Reference | Date CO Issued | Date Approved | Cost/(Credit) |
|---|---------------------------------------|-----------------|-------------------|------------------|---------------|
| | | | | | |
| Sub-Total Soil Conditions Change Orders | | | | | \$0.00 |
| Percentage of Total Change Orders | | | | 0% | |



9.2. DESIGN TEAM ERRORS, OMISSIONS, DESIGN CHANGE

The following lists the approved change orders described as errors, omissions, and changes to the design by the architectural/engineering team. The percentage by discipline/division is as follows:

| Discipline | Cost of Error/ Omission, Design Change to Date | Percent of Error/Omission, Design Changes | Percent of Contract Cost (\$85,580,225) |
|-------------------|---|---|---|
| Architectural (A) | \$17,733.81 | 10.3% | 0.28% |
| Structural (S) | \$2,841.85 | 1.7% | 0.05% |
| Electrical (E) | \$98,040.40 | 57.1% | 1.56% |
| Mechanical (M) | \$18,316.45 | 10.7% | 0.29% |
| Civil (C) | \$27,356.57 | 15.9% | 0.44% |
| Other (O) | \$7,276.24 | 4.2% | 0.12% |

| CO # | Change Orders to Original Contract | Discipline | PC Reference | Date CO Issued | Date Approved | Cost/(Credit) |
|---------|--|------------|-----------------|-------------------|------------------|---------------|
| CO-2.0 | Upsize Septic Tank from 6,800L to 18,000L | 0 | RFCO-01 | Jun. 9/22 | Jun. 10/22 | \$7,276.24 |
| CO-3.0 | Add Hot Water Line and Power to Future Washer | E | PC 1.0 | Jun. 10/22 | Jun. 15/22 | \$2,085.59 |
| CO-5.0 | Add ATS Bypass Switch and Power to Extractors | E | PC 3.0 | Jun. 29/22 | Jul. 13/22 | \$8,330.58 |
| CO-9.0 | Gable End Framing | S | PC 7.0 | Aug. 15/22 | Aug. 15/22 | \$979.15 |
| CO-10.0 | Siding Foam Closure | А | RFCO-08 | Aug. 15/22 | Aug. 15/22 | \$1,470.00 |
| CO-12.0 | Add Services Chase in Bunker Gear Room | A | PC-8.0 | Aug. 16/22 | Aug. 25/22 | \$884.39 |
| CO-16.0 | Add Power for SP-D | E | PC-5.0 | Sept. 14/22 | Sept. 21/22 | \$8,084.56 |
| CO-17.0 | Duct Bank Relocation | E | PC-5.0 | Sept. 14/22 | Sept. 21/22 | \$13,995.19 |
| CO-19.0 | Grease Interceptor | М | PC-11.0 | Nov. 4/22 | Nov. 7/22 | \$2,303.18 |
| CO-21.0 | Girder Truss Anchor | S | PC-14.0 | Nov. 25/22 | Dec. 7/22 | \$1,862.70 |
| CO-22.0 | Fire Cistern and Storm Outlet | С | PC-12.2 | Dec. 22/22 | Jan. 1/22 | \$26,109.17 |



| | | | Perce | entage of Total | Change Orders | 97.3% | |
|---------|---|---|-----------|-----------------|---------------|-------------|--|
| | Sub-Total Errors, Omissions, Design Changes Change Orders | | | | | | |
| CO-47.0 | CO2 & NO2 Sensor | М | PC-20.0 | Aug. 11/23 | Aug. 15/23 | \$13,217.82 | |
| CO-46.0 | Correct Draft Pipe Elbows | С | PC-31.0 | Aug. 4/23 | Aug. 8/23 | \$1,247.40 | |
| CO-45.0 | Additional Data Cables | E | PC-32.0 | Jul. 31/23 | Jul. 31/23 | \$617.40 | |
| CO-44.0 | D8-04 Change | А | PC-30.0 | Jul. 31/23 | Jul. 31/23 | \$3,118.50 | |
| CO-43.0 | ERV Control Valve | М | RFCO-22.0 | Jul. 19/23 | Jul. 25/23 | \$1,254.68 | |
| CO-42.0 | IT Room Power | E | PC-27.0 | Jul. 19/23 | Jul. 25/23 | \$1,571.25 | |
| CO-41.0 | Corridor Bulkheads | А | RFCO-21.0 | Jul. 14/23 | Jul. 16/23 | \$854.12 | |
| CO-40.0 | Female Washroom Receptacle | A | PC-28.0 | Jul. 5/23 | Jul. 14/23 | \$315.00 | |
| CO-39.0 | Kitchen Pass-Throughs | A | RFCO-18.0 | Jun. 22/23 | Jun. 22/23 | \$2,794.41 | |
| CO-37.0 | Bulkhead in Bunker Gear RM | A | RFCO-20.0 | May 25/23 | May 29/23 | \$934.29 | |
| CO-36.0 | IT Room Ceiling | А | RFCO-19.0 | May 12/23 | May 29/23 | \$607.40 | |
| CO-33.0 | Thermostat Wiring | E | PC-16.0 | Apr. 12/23 | Apr. 13/23 | \$9,240.00 | |
| CO-32.0 | Exterior Wall Packs & Data Cabling | E | PC-19.0 | Apr. 4/23 | Apr. 4/23 | \$10,083.61 | |
| CO-31.0 | High Water Alarm & Door Control Panel | E | PC-15.0 | Apr. 3/23 | Apr. 4/23 | \$2,020.92 | |
| CO-30.0 | SP02 Soft Start and Control Panel | E | PC-18.0 | Mar. 15/23 | Mar. 16/23 | \$18,195.12 | |
| CO-29.0 | Ductbank Vaults | E | PC-13.0 | Mar. 14/23 | Mar. 14/23 | \$20,612.05 | |
| CO-28.0 | Attic Duct Insulation | М | RFCO-16 | Mar. 2/23 | Mar. 7/23 | \$1,540.77 | |
| CO-27.0 | Mezzanine Gate | А | RFCO-15 | Feb. 21/23 | Feb. 21/23 | \$4,025.70 | |
| CO-26.0 | Additional Electrical Outlets | E | RFCO-14 | Feb. 2/23 | Feb. 7/23 | \$2,398.59 | |
| CO-25.0 | Mechanical Room Door | А | RFCO-13 | Jan. 26/23 | Jan. 27/23 | \$2,730.00 | |
| CO-23.0 | Exterior Lighting Control | E | PC-17.0 | Jan. 20/23 | Jan. 23/23 | \$805.54 | |



9.3. TOWNSHIP REQUESTED CHANGE

| CO # | Change Orders to Original Contract | PC Reference | Date CO Issued | Date Approved | Cost/(Credit) |
|-----------------------------------|---|-----------------|-------------------|------------------|---------------|
| CO-11.0 | Extractor Tank Size | PC-5.0 | Aug. 15/22 | Aug. 25/22 | 1,774.50 |
| CO-34.0 | New pad for 40' Container & Concrete Pad Removal | PC-22.0 | Apr. 25/23 | Apr. 25/23 | \$986.43 |
| CO-35.0 | Additional Receptacles In Administration | PC-23.0 | May 12/23 | May 12/23 | \$1,063.23 |
| CO-38.0 | SCBA Washer Water Line | PC-24.0 | Jun. 12/23 | Jun. 13/23 | \$859.00 |
| | \$4,683.16 | | | | |
| Percentage of Total Change Orders | | | | | 2.7% |

9.4. Address Existing Conditions

| CO # | Change Orders to Original Contract | PC Reference | Date CO Issued | Date Approved | Cost/(Credit) |
|---|------------------------------------|-----------------|-------------------|------------------|---------------|
| | | | | | |
| Sub-Total Existing Conditions Change Orders | | | | | |
| Percentage of Total Change Orders | | | | | 0% |



9.5. CREDITS

| CO # | Change Orders to Original Contract | PC Reference | Date CO Issued | Date Approved | Cost/(Credit) |
|-----------------|---|-----------------|-------------------|------------------|---------------|
| CO-1.0 | Credit for Hydro One Application Fees Paid by Town | RFCO-03 | Jun. 3/22 | Jun. 15/22 | (\$1,043.18) |
| CO-4.0 | Revised Light Fixture Type | PC 4.0 | Jun. 24/22 | Jun. 29/22 | (\$2,235.50) |
| CO-6.0 | Remove Lights for SB-10 | PC 2.0 | Jun. 29/22 | Jul. 13/22 | (\$708.55) |
| CO-7.0 & 7.1 | Site Services Pipe Size | PC-6.0 | Sept. 26/22 | Sept. 28/22 | (\$2,312.68) |
| CO-8.0 | Delete Base Cabinet | RFCO-07 | Aug. 10/22 | Aug. 15/22 | (\$546.00) |
| CO-13.0 | Revise Solid Surface to Laminate | RFCO-09 | Aug. 23/22 | Aug. 25/22 | (\$13,410.00) |
| CO-14.0 | Delete Roll-up Door - Kitchen | RFCO-10.0 | Aug. 24/22 | Aug. 25/22 | (\$2,781.00) |
| CO-15.0 | Eyewash Alarm and Fixture Electrical | PC-9.0 | Sept. 12/22 | Sept. 13/22 | (\$582.84) |
| CO-18.0 | Steel Deletions | PC-10.0 | Oct. 17/22 | Oct. 17/22 | (\$7,182.62) |
| CO-20.0 | Floor Drain Revisions | RFCO-11 | Nov. 14/22 | Nov. 23/22 | (\$18,735.50) |
| CO-24.0 | Hydro Credit | RFCO-12 | Jan. 20/23 | Jan. 23/23 | (\$2,121.46) |
| | (\$51,659.33) | | | | |

10.0 CHANGE DIRECTIVES (CD)

| CD # | Change Directives to Original Contract | Date CD Issued | CO Reference | Cost/(Credit) |
|--------|--|-------------------|--------------|---------------|
| CD-1.0 | Apparatus Bay Ceiling Fan | Jun. 14/23 | TBD | TBD |
| | \$ TBD | | | |



11.0 ALLOWANCE DISPERSAL (AD)

Section 11.0 is a summary of awarded contracts, billing progress and budget status for the cash allowances.

| CAA # | Description | Date CAA Issued | Date CAA Approved | Cost/(Credit) |
|-------|---|--------------------|----------------------|---------------|
| AD-01 | Door Hardware – Supply & Installation by William Knell & Company Limited. This allowance includes all specified door hardware, operators, sweeps, closures, and electronic components for the new Fire Station. The scope was competitively priced by three bidders, with William Knell & Company being the low bid. | May 11/22 | May 12/22 | \$46,350.00 |
| AD-02 | Door Hardware – Supply & Installation by William Knell & Company Limited. This allowance is for a new electric strike for door D11-01. This strike was omitted on the hardware schedule and is required for the operation of the specified automatic door operator. | Jun. 13/22 | Jun. 14/22 | \$250.00 |
| AD-03 | Hydro and Gas – Additional engineering required by Schneider Electric for modifications to the main electrical switchboard and transformer cabinet to accommodate the Hydro One supplied cabinet transformer (CT). The specified Schneider cabinet is designed to accommodate several types of CT but was not designed for the CT Hydro One has in stock. | Jun. 22/22 | Jun. 29/22 | \$1,571.06 |
| AD-04 | Construction Rubble – Removal and disposal of concrete foundations found buried on site (RFI-08). These foundations were not part of the demolished house or barn structures. | Jul. 4/22 | Jul. 5/22 | \$572.00 |
| AD-05 | Testing & Inspection – Retain GHD to compete all testing and inspection services listed in their proposal dated June 10 th , 2022. This allowance includes costs for the following: footing & subgrade inspections, compaction testing, concrete/mortar/grout testing, steel inspections, spray foam & air barrier inspection, and laboratory testing. | Jul. 20/22 | Jul. 27/22 | \$12,366.00 |
| AD-06 | Construction Rubble – sub-excavation of unsuitable soils and place lean mix concrete (RFI-09). An old well was found when excavating for the new foundations. The geotechnical engineer reviewed with the structural consultant and determined the extent of sub-excavation & lean mix concrete required to mitigate the problem. | Jul. 22/22 | Jul. 27/22 | \$8,430.60 |



| AD-07 | Hydro and Gas – The Hydro One connection fee for the new permanent service to the Fire Station. | Aug. 22/22 | Aug. 22/22 | \$20,074.08 |
|-------|---|-------------|------------|-------------|
| AD-08 | Security Control – Retain Pasword to supply and install the access control and security system for the project. This includes door access modules, card readers, wiring, keypads, sensors, controllers/control panels, installation, and programming. | Sept. 30/22 | Oct. 3/22 | \$25,780.00 |
| AD-09 | Commissioning – CFMS-West retained as the commissioning agent for this project. | Dec. 20/22 | Jan. 1/23 | \$14,700.00 |
| AD-10 | Surveying – work completed by Lanthier & Gilmore Surveying Ltd. for the construction layout prior to construction. | Dec. 21/22 | Jan. 1/23 | \$1,729.80 |
| AD-11 | Testing & Inspection – Extension of Allowance disbursal 05 (approved on Jul. 27/22) for GHD to compete all testing and inspection services listed in their proposal dated June 10 th , 2022. This allowance has been extended due to the increased number of visits and test required to complete the project. The total for the testing an inspection allowance is now \$22,000. | Jan. 4/23 | Jan. 10/23 | \$9,634.00 |
| AD-12 | Signage – Retain Harrison Solutions to supply and install the two exterior building signs for the new fire station. | Jan. 4/23 | Jan. 10/23 | \$11,193.82 |
| AD-13 | Hydro & Gas – Enbridge Gas charges for the new gas service. | Feb. 23/23 | Mar. 2/23 | \$6,153.38 |
| AD-14 | Hydro & Gas – Supply and installation of the primary electrical cables from the pole to the transformer. | Mar. 14/23 | Mar. 14/23 | \$13,237.01 |
| AD-15 | Signage – Supply and installation of a "2023" date stone to be installed adjacent to the front entrance. | Mar. 30/23 | Mar. 30/23 | \$450.00 |
| AD-16 | Signage – Supply and installation of four pot lights in the north soffit above the apparatus bay doors to illuminate the building signage. | Apr. 4/23 | Apr. 4/23 | \$2,545.57 |
| AD-17 | Signage – Supply and installation the interior wayfinding signage and exterior traffic signage. | Apr. 20/23 | Apr. 21/23 | \$4,160.60 |
| AD-18 | Window Coverings – Supply and installation of 15 roller window shades by Interiors By Better Shade. | May 25/23 | Jun. 1/23 | \$5,905.00 |
| | - | | | |



| AD-19 | Door Hardware – Supply of glass trim for the exterior doors. The Issued for Construction drawings and specifications omitted this item. | Jun. 1/23 | Jun. 8/23 | \$1,200.00 |
|-------|---|------------|------------|------------|
| AD-20 | Surveying – Concrete curb layout and GPS file. | Jun. 1/23 | Jun. 8/23 | \$2,500.00 |
| AD-21 | Testing & Inspection – Extension of Allowance disbursal 11 (approved on Jan. 10/23) for GHD to complete additional concrete testing and compaction testing during the site hardscaping activities. The total for the testing an inspection allowance is now \$24,930.50. | Jul. 17/21 | Jul. 18/23 | \$2,930.50 |
| AD-22 | Testing & Inspection – Extension of Allowance disbursal 11 and 12 (approved on Jul. 25/23) for GHD to complete asphalt testing during the site hardscaping activities for \$1,077.50. The total for the testing and inspection allowance is now \$26,008.00. | Jul. 12/23 | | \$1,077.50 |

12.0 CASH ALLOWANCE DRAWS (CAD)

The following cash allowance summary notes awarded contracts and tracks billing progress against a total Contract Allowance of \$325,000 The project cash allowances are drawn from the Contract Allowance as stipulated in the construction contract.

The Sum of Approved Allowances awarded to date is \$192,810.92 against the Allowance Budget of \$325,000. As of Certificate of Payment 16, \$164,185.92 has been paid to the contractor. See summary table on next Page:



| CAD Description | CAD Approved by Township (Exc. HST) | CAD Invoiced to Date (Exc. HST) | CAD Invoiced this Period (Exc. HST) | CAD Remaining to be Drawn (Exc. HST) |
|--------------------------------------|---|------------------------------------|---|--|
| Door Hardware (AD-01) | \$46,350.00 | \$46,350.00 | \$0.00 | \$0.00 |
| Door Hardware (AD-02) | \$250.00 | \$250.00 | \$0.00 | \$0.00 |
| Door Hardware (AD-19) | \$1,200.00 | \$1,200.00 | \$0.00 | \$0.00 |
| Testing & Inspection (AD-05) | \$12,366.00 | \$12,366.00 | \$0.00 | \$0.00 |
| Testing & Inspection (AD-11) | \$9,634.00 | \$9,634.00 | \$0.00 | \$0.00 |
| Testing & Inspection (AD-21) | \$2,930.50 | \$2,930.50 | \$0.00 | \$0.00 |
| Testing & Inspection (AD-21) | \$1,077.50 | \$1,077.50 | \$1,077.50 | \$0.00 |
| Hydro & Gas (AD-03) | \$1,571.06 | \$1,571.06 | \$0.00 | \$0.00 |
| Hydro & Gas (AD-07) | \$20,074.08 | \$20,074.08 | \$0.00 | \$0.00 |
| Hydro & Gas (AD-13) | \$6,153.38 | \$6,153.38 | \$0.00 | \$0.00 |
| Hydro & Gas (AD-14) | \$13,237.01 | \$13,237.01 | \$0.00 | \$0.00 |
| Surveying (AD-10) | \$1,729.80 | \$1,729.80 | \$0.00 | \$0.00 |
| Surveying (AD-20) | \$2,500.00 | \$2,500.00 | \$0.00 | \$0.00 |
| Security Control (AD-08) | \$25,780.00 | \$10,000.00 | \$10,000.00 | \$15,780.00 |
| Construction Rubble (AD-04) | \$572.00 | \$572.00 | \$0.00 | \$0.00 |
| Construction Rubble (AD-06) | \$8,430.60 | \$8,430.60 | \$0.00 | \$0.00 |
| Window Coverings (AD-18) | \$5,905.00 | \$0.00 | \$0.00 | \$5,905.00 |
| Building Signage (AD-12) | \$11,193.82 | \$11,193.82 | \$0.00 | \$0.00 |
| Signage – Date Stone (AD-15) | \$450.00 | \$450.00 | \$0.00 | \$0.00 |
| Signage – Illumination (AD-16) | \$2,545.57 | \$2,545.57 | \$0.00 | \$0.00 |
| Signage – Interior & Traffic (AD-17) | \$4,160.60 | \$4,160.60 | \$0.00 | \$0.00 |
| Project Sign Board | n/a | \$0.00 | \$0.00 | n/a |
| Commissioning (AD-09) | \$14,700.00 | \$7,760.00 | \$1,120.00 | \$6,940.00 |
| Total Allowance in Contract (A) | \$325,000.00 | - | - | - |
| Total Approved CAD's (B) | \$192,810.92 | \$164,185.92 | \$12,197.50 | \$28,625.00 |
| Difference (A - B) | \$133,266.58 | - | - | - |

* The total cash allowance for the above items is \$325,000. The cost for each item will be allocated as the contractor awards the individual contracts.



13.0 CERTIFICATE OF PAYMENTS SUMMARY

Certificate of Payment "CoP No. 16", Draw 16 for the period ending August 31st, 2023, was issued by the Architect on September 12th, 2023, and recommended for payment by UEM on September 12th, 2023, for the Wainfleet Central Fire Station project. The amount payable excluding HST is \$82,248.32. The schedule of Certificate of Payments received and recommended is as follows. All costs exclude HST.

| Certificate of Payment (CoP) / Period Ending | Cumulative Net Amount Certified by Architect (Exc. 10% Holdback) | TRP Contract Cost (Including COs & CDs) | Balance of Statutory Holdback (10%) | Balance to Complete Contract |
|---|---|---|---|------------------------------------|
| \$97,110.00 (CoP No. 01 for May '22) | \$107,900.00 | \$6,275,000.00 | \$10,790.00 | \$6,167,100.00 |
| \$136,785.44 (CoP No. 02 for Jun. '22) | \$259,883.82 | \$6,283,318.65 | \$25,988.38 | \$6,023,434.83 |
| \$557,822.46 (CoP No. 03 for Jul. '22) | \$879,686.56 | \$6,288,705.18 | \$87,968.66 | \$5,409,018.62 |
| \$390,213.62 (CoP No. 04 for Aug. '22) | \$1,313,257.24 | \$6,276,187.03 | \$131,325.72 | \$4,963,818.96 |
| \$386,336.47 (CoP No. 05 for Sept. '22) | \$1,742,519.99 | \$6,296,260.45 | \$174,252.00 | \$4,553,740.46 |
| \$290,675.70 (CoP No. 06 for Oct. '22) | \$2,065,492.99 | \$6,289,077.83 | \$206,549.30 | \$4,223,584.84 |
| \$429,702.53 (CoP No. 07 for Nov. '22) | \$2,542,940.24 | \$6,274,508.21 | \$254,294.02 | \$3,731,567.97 |
| \$280,997.33 (CoP No. 08 for Dec. '22) | \$2,855,159.50 | \$6,300,617.38 | \$285,515.95 | \$3,445,457.88 |
| \$255,358.04 (CoP No. 09 for Jan. '23) | \$3,138,890.66 | \$6,302,031.46 | \$313,889.07 | \$3,163,140.80 |
| \$365,468.30 (CoP No. 10 for Feb. '23) | \$3,544,966.54 | \$6,308,455.75 | \$354,496.65 | \$2,763,489.21 |
| \$486,257.13 (CoP No. 11 for Mar. '23) | \$4,085,252.24 | \$6,348,803.69 | \$408,525.22 | \$2,263,551.45 |



| \$528,031.39 | \$4,671,953.79 | \$6,371,134.65 | \$467,195.38 | \$1,699,180.86 |
|---------------------------|----------------|----------------|--------------|----------------|
| (CoP No. 12 for Apr. '23) | | | | |
| \$511,450.81 | \$5,240,232.47 | \$6,373,739.57 | \$524,023.25 | \$1,133,507.10 |
| (CoP No. 13 for May '23) | | | | |
| \$523,155.94 | \$5,821,516.85 | \$6,377,393.20 | \$582,151.69 | \$555,876.35 |
| (CoP No. 14 for Jun. '23 | | | | |
| \$188,717.29 | \$6,031,202.72 | \$6,381,388.03 | \$603,120.27 | \$350,185.31 |
| (CoP No. 15 for Jul. '23 | | | | |
| \$82,248.32 | \$6,122,589.75 | \$6,399,589.15 | 4612,258.98 | \$276,999.40 |
| (CoP No. 16 for Aug. '23 | | | | |

14.0 SUPPLEMENTAL (SITE) INSTRUCTIONS (SI)

| SI | Date Issued | Description | |
|----------|--------------------|--|--|
| SI-1.0 | July 28, 2022 | Electrical/Mechanical Conduit Chase | |
| SI-2.0 | September 15, 2022 | Tile Colour Clarifications | |
| SI-3.0 | September 28, 2022 | Countertop and Cabinet Colour Clarifications | |
| SI-4.0 | October 27, 2022 | Revise Window Location – Deputy Chief Office | |
| SI-5.0 | November 28, 2022 | Commissioning Requirements | |
| SI-6.0 | December 13, 2022 | Keypad Clarifications | |
| SI-7.0 | January 11, 2023 | Additional Electrical Outlet Clarifications | |
| SI-8.0 | January 20, 2023 | South Exterior Lights | |
| SI-9.0 | January 26, 2023 | Revise Mechanical Room Door, Revise Attic Space Firestopping | |
| SI-9.0r1 | January 26, 2023 | Revise Attic Space Firestopping | |
| SI-10.0 | March 21, 2023 | Paint Colours and Accent Walls | |
| SI-11.0 | March 31, 2023 | Date Stone Location | |



| SI-12.0 | May 18, 2023 | Metal Siding – Trims & Box-outs |
|---------|--------------------|----------------------------------|
| SI-13.0 | June 27, 2023 | Administration – Floor Polishing |
| SI-13.1 | July 14, 2023 | Floor Polishing & Grinding |
| SI-14.0 | August 21, 2023 | Fire Alarm System Clarification |
| SI-15.0 | September 12, 2023 | Parking Lot Line Painting |

15.0 REQUEST FOR TOWNSHIP INFORMATION (RFTI)

| RFCI | Date Issued | Description | Status |
|------|-------------|-------------|--------|
| | | | |
| | | | |

16.0 STATUS OF PROJECT BUDGET

The status of the project budget and costs (excluding HST) to August 31st, 2023, for the Wainfleet Central Fire Station are as follows.

Note: The status of construction costs to date represents the amount paid by the Township of Wainfleet to the contractor and INCLUDES Holdbacks (10%).

| | ΑCTIVITY | BUDGET | STATUS TO DATE |
|-----|--|-------------|----------------|
| A1. | Construction Cost (Tender Cost from TRP) | \$5,950,000 | \$5,833,815 |
| A2. | Construction Allowances (By Competitive Bid) | \$325,000 | \$164,186 |
| | Construction Contingency | \$311,000 | \$124,589 |
| A3. | Pre-Construction Township Activities | \$8,100 | \$7,979 |
| В. | Owners Allowances | \$686,100 | \$689,314 |
| C. | Advisory Services | \$378,700 | \$359,387 |
| | | | |

| TOTAL PROJECT BUDGET \$7,658,900 \$7,179,270 |
|--|
|--|



17.0 POTENTIAL CONSTRUCTION PROJECT RISKS

All construction projects carry some level of risk and uncertainty to participants. Owners mitigate risk by following a rigorous planning, evaluative, investigative and design process and transfers risk by insurances, bonding, indemnification, supplementary conditions, and contracts. However, there remains potential project risks to the owner that should be regularly assessed by a risk register and ongoing evaluation of the probability of specific risks.

The probability of a project risk is considered as "low" (unlikely), "moderate" (possible), "high" (likely) or "very high" (active). A construction risk can have one or more causes and one or more impacts. Construction project risks are interrelated and interdependent.

The assessment of potential project risks considers the probability, uncertainty, and consequences of a potential risk. The probability of the risk may change as circumstances change or arise and are specific to a particular project. Some of the most consequential potential project risks experienced during construction include:

Schedule – Schedule risks include weather delays, unknown site conditions, moisture in concrete, fire, permit delays, contractor performance (including financial issues), supply (labour and material) problems, work stoppages (strikes and mandated shutdowns) and decision-making delays.

The effect of the potential return of the pandemic in 2023 is considered in assessing schedule risk. Potential schedule impacts are mitigated by agreeing to a critical path schedule and monitoring completion of milestone activities against the approved baseline. Supply of goods and labor is an ongoing scheduling matter that is monitored regularly. The schedule and actual cash flow has exceeded the contractors forecasted cash flow (see graph in Section 5.0). The contractor did not meet the financial test for substantial performance by the end of August. (See the cashflow commentary on page 11 of this report).

- Risk to Project: High - Monitor

Budget – Factors contributing to budget risk include design omissions and errors, unknown site conditions, contract disputes, schedule delays, increases in material costs, and work stoppages. Consequences could be that certain parts of the project are eliminated, changed, or not fully completed.

- Risk to Project: Low

Overpayment to Contractor – There is a risk of overpayment to the contractor if the process of contractor draws are not rigorously reviewed. This can be a significant project risk in terms of completed project and addressing construction deficiencies.

Payment to the contractor follows due diligence involving the architect, engineering sub-trades, the contract administrator, and the project manager. The percentage of work claimed by the contractor and the verification of delivered equipment and materials is reviewed by the frequent on-site visits. Reference to the contractor's schedule and forecasted cashflow provide another monitor. Details such as the inclusions of only approved changes is another check against over payment. Holdbacks, both statutory and against unfinished or deficient work, provide assurances.

There is also the risk of duplicate payment for work in the base contract and new work defined by changes to project scope. The contract administrator works closely with the design team to determine what is acceptable new scope and what the contractor is providing as part of their contractual obligations.

- Risk to Project: Low



Pandemic – A public health crisis would likely affect construction productivity, or the government could again mandate the construction industry, including supply of equipment, materials, and products, to stop work because of the COVID-19 virus. The consequence is a high level of uncertainty which has potential effects on the project schedule, cash flow, budget and potentially equipment, material and labour supply.

- Risk to Project: Low

Goods and Labour Supply – The supply of goods (equipment and materials) and labour (including availability of trades and specialized subtrades) can be affected by several factors such as a pandemic, mandated shutdowns, labour shortages, disputes and strikes, high demand for specific goods, currency exchange fluctuations and seasonal shutdown by manufacturers. The consequences are probable impacts on project schedule/completion date.

The construction industry is seeing an unprecedented number of labour strikes.

The contractor has acquired all major materials and deliveries. There are no anticipated items with extended delivery times that will impact substantial completion

- Risk to Project: Low

Health and Safety – Worker safety is paramount to the general contractor, subtrades and the owner. Unsafe work conditions, carelessness or a serious workplace accident can affect the project schedule. The general contractor has implemented a comprehensive work health and safety program. The consequence is that workers health and safety is affected which in turn could impact project schedule and completion.

- Risk to Project: Low

Environmental – Unknowns and the unexpected such as severe weather events, subsurface conditions not suitable for construction, contaminated soils, underground hazards, structures and tanks, endangered or sensitive species or the presence of archaeological or historical resources represent high levels of risk, particularly in the early stages of the project. The consequences are impacts to budget, schedule and project completion.

- Risk to Project: Low

Contractor Performance – The quality of construction including defective work, the completion of the project on schedule, negligence, project close-out and operational readiness, the financial stability of the general contractor, bankruptcy, the availability of trades and labour, health & safety practices and labour unrest represent high levels of risk. The consequences affect all aspects of the project.

This risk is mitigated by employing a rigorous contractor (including major subtrades) selection process that considers qualifications and experience, financial stability, and proposed project management and on-site supervision personnel.

As noted in the assessment of schedule risk, contractor performance in the last stages of the project is critical to its success. A coordinated effort of all trades and the architectural/engineering team is imperative to meet project milestones.

- Risk to Project: Low – Monitor



18.0 OTHER PROJECT MATTERS

No other project matters to document at this time.

19.0 CLOSE OUT DOCUMENTS

There are four significant milestones at the end of a construction project that must be addressed to permit occupancy:

- Certificate of Substantial Performance
 - Construction in Progress
- Occupancy Permit from Building Department (in consultation with Fire Department) including verification/compliance letters (i.e. ESA, emergency lighting, fire alarm, seismic restraint, sprinkler, electrical, mechanical), letters from sub-contractors and from the design architects/engineers. Balancing and controls can be ongoing during occupancy.
 - Building Inspector and Fire Department undertake periodic inspections during construction
- Architectural/Civil, Electrical, Mechanical and Structural As-Built Drawings
 - Construction in Progress Architectural drafts submitted to consultant team for review
- Operation and Maintenance Manuals
 - **Construction in Progress** Drafts submitted for architect / design team review

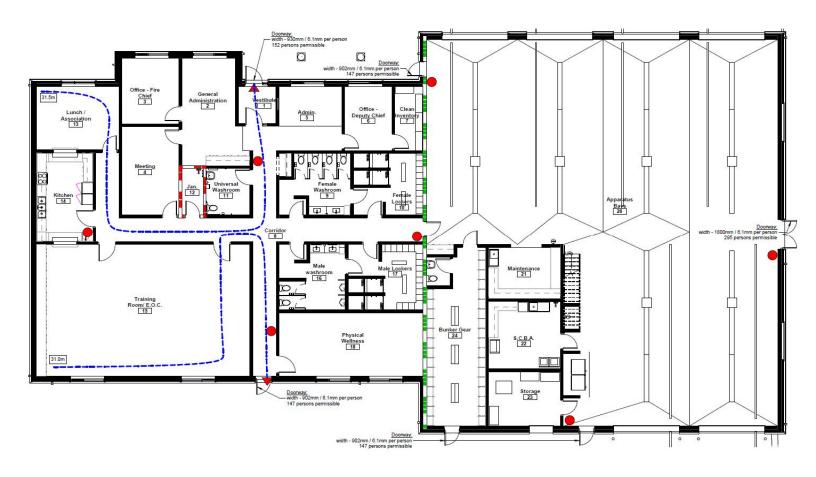


20.0 CONSULTANT & SUBCONTRACTOR LIST

| Scope | Scope Consultant / Contractor | |
|---|--|---------------------|
| Architect | Raimondo + Associates Architects | Niagara Falls |
| Project Management | Urban & Environmental Management (UEM) | Niagara Falls |
| Mech./Elec./ Civil/ Structural Engineering | Mantecon Partners | Dundas |
| Commissioning Agent | CFMS- West | Grimsby |
| Testing & Inspection | GHD | St Catharines |
| General Contractor | TRP Construction General Contractors | Burlington |
| Demolition | Budget Environmental Disposal Inc | Hamilton |
| Civil/Siteworks | Backwoods Excavating Inc. | Grassie |
| Septic | Dynamic Fusion | Dunnville |
| Mechanical | Besseling Mechanical Inc | Hamilton |
| Electrical | Fred Giessler Electric | Niagara-on-the-Lake |
| Masonry | Cecchini Masonry Ltd. | Thorold |
| Landscape | Touchstone Site Contractors | Thorold |
| Finish Carpentry | Baywood Interiors Ltd. | Kitchener |
| Concrete Formwork | Niagara Formwork Structure Inc. | Welland |
| Concrete Supplier | Inter County Concrete Contracting | Dunnville |
| Concrete Finishing | Appolo Concrete Contracting | Hamilton |
| Structural Steel | Bradshaw Ironworks Ltd. | Welland |
| Metal Doors, Frames, Hardware | William Knell and Company Ltd. | Kitchener |
| Metal Siding, Soffit, Roofing | Plazo Constriction Corporation | North York |
| Overhead Doors | Overhead Door Company Limited | St. Catharines |
| Toilet & Bath Accessories | Canada Washroom Products Inc. | Burlington |
| Glazing | Welland Glass & Entrances Inc. | Welland |
| Gypsum Board/ACT | DBN Drywall & Acoustics Ltd. | St. Catharines |
| Flooring | Percella Flooring Inc. | Toronto |
| Painting | Painting-Canada Inc. | Hamilton |

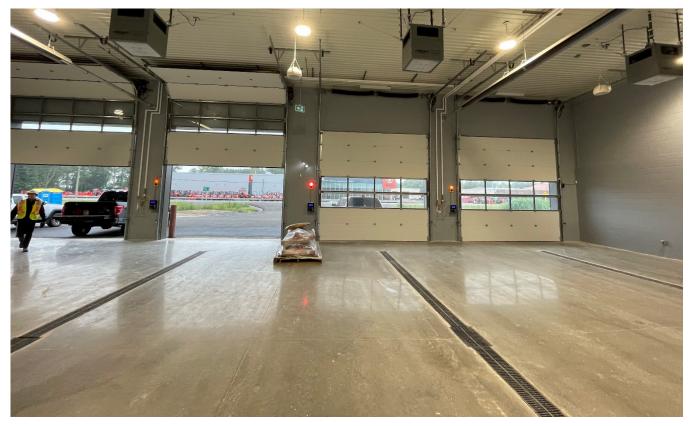


21.0 WAINFLEET CENTRAL FIRE STATION FLOOR PLAN

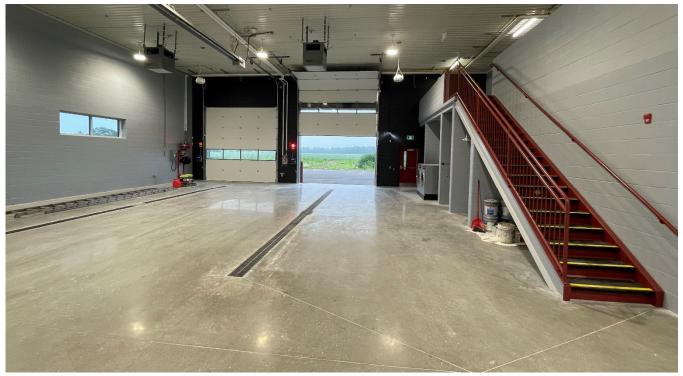




22.0 SITE PICTURES



Apparatus Bay Front



Apparatus Bay Rear





IT Room



Extractors Installer





Kitchen Appliances Delivered



In-floor heating Manifolds Complete



PROJECT FACT SHEET

| Wainfleet Fire Station Construc | tion Contract: | | |
|--|----------------|---|--|
| TRP Construction | | | \$ 5,950,000.00 |
| Construction Allowances | | | \$ 325,000.00 |
| Total Wainfleet Fire Station Contract (Ex. HST) | | | \$ 6,275,000.00 |
| Wainfleet Fire Station Project S | cope: | | |
| - Gross Floor Area | | | 1,239 m ² (13,342 ft ²) |
| - Site Area | | | 2.02 ha (4.99 ac) |
| Wainfleet Fire Station Key Features: Six Apparatus Bays 1,200 ft ² , 60-person Training Room Male Washroom and Change Rooms w/32 lockers 300kW Natural Gas Generator Provisions for Future Apparatus Bays (2) 50,000 Gallon Greywater Storage (Rainwater) c/w Pum | | Dedicated Offices for Fire Chief and Deputy Fire Chief 440 ft ² Physical Wellness Room Female Washroom and Change Rooms w/20 lockers Metal Roof Provisions for Future EMS Station mps for Filling Fire Trucks | |
| Schedule: | | | |
| Occupancy | August, 2023 | | |
| Substantial Completion | August, 2023 | | |
| | | | |
| | | | |

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