

City of Saint John

## TENDER

### **Tender # 2023-082301T FIRE STATION #1, 5, & 7 LIGHTING RETROFIT**

Sealed tenders, hand delivered or couriered, addressed to Monic MacVicar, CCLP, CPPB, Supply Chain Management, 1st Floor – 175 Rothesay Avenue, Saint John, NB, E2J 2B4, and marked on the envelope:

### **“Tender # 2023-082301T FIRE STATION #1, 5, & 7 LIGHTING RETROFIT”**

will be received until 2:30:00 pm, Tuesday, April 4<sup>th</sup>, 2023 for the supply of all materials, labor and equipment necessary to complete a lighting retrofit at Fire Stations #1, 5 and 7 in accordance with the enclosed specifications, drawings, terms and conditions.

In light of the current Covid-19 pandemic, there will be no public opening. Tenders will be opened by the Tender Opening Committee, in the first-floor boardroom, 175 Rothesay Avenue, Municipal Operations Complex, immediately following the tender closing time. **Registered bidders may attend remotely via Teams invitation.**

The lowest or any tender not necessarily accepted.

**Monic MacVicar, CCLP, CPPB  
Supply Chain Management**

*Issued: Wednesday, March 22<sup>nd</sup>, 2023*

**T E N D E R**  
**Tender # 2023-082301T**  
**FIRE STATION #1, 5, & 7 LIGHTING RETROFIT**

**SCOPE OF WORK:**

The City of Saint John is soliciting tenders from qualified bidders to supply all materials, labor and equipment necessary to complete a lighting retrofit at Fire Station #1, 5 and 7, as per the specifications, drawings, terms and conditions outlined in this document.

**A pre-bid site visit will be held on Monday, March 27<sup>th</sup>, 2023, at 10:00:00AM. We will meet at the Front Entrance of Fire Station #1 (see address below). We will proceed to the other facilities from there. All bidders are strongly urged to attend.**

1. Fire Station #1 – 47 Leinster Street
2. Fire Station #5 – 35 Adelaide Street
3. Fire Station #7 – 41 Manchester Ave

**SPECIFICATIONS:**

**See Appendix A.**

**TERMS AND CONDITIONS**

**Governing Law, Trade Treaties and Policies**

This procurement will be in accordance with the laws of the province of New Brunswick and the federal laws of Canada.

This procurement is also subject to the following Policies, Legislation and Internal Trade Agreement(s) including:

- Atlantic Trade and Procurement Partnership (ATAPP)
- New Brunswick Procurement Act and Regulation 2014-93
- City of Saint John Policy for the Procurement of Goods, Services and Construction

**Submission Instructions**

Sealed tenders, hand delivered or couriered, addressed to Monic MacVicar, CCLP, CPPB, Supply Chain Management, 1st Floor – 175 Rothesay Avenue, Saint John, NB, E2J 2B4, and marked on the envelope:

**“2023-082301T**  
**FIRE STATION #1, 5, & 7 LIGHTING RETROFIT”**

will be received until 2:30:00 pm, Tuesday, April 4<sup>th</sup>, 2023 for the work contemplated in this document and in accordance with the enclosed specifications, drawings, terms and conditions.

### **Enquiries**

Bidders shall promptly examine the bid documents and report any errors, omissions or ambiguities and may direct enquiries or seek additional information in writing by email before the deadline for enquiries to the Authorized Enquiries Contact as set out below. No such communications are to be directed to anyone other than the Authorized Enquiries Contact.

### **Authorized Enquiries Contact**

Monic MacVicar, CCLP, CPPB  
Supply Chain Management  
City of Saint John  
Email: [supplychainmanagement@saintjohn.ca](mailto:supplychainmanagement@saintjohn.ca)

It is the Bidder's responsibility to seek clarification from the City on any matter it considers unclear. The City shall not be responsible for any misunderstanding on the part of the Bidder concerning this bid document or its process.

The City intends to confirm receipt of a bidder's communication by way of an email or facsimile in reply. If a bidder has not received a reply, the bidder may wish to resend its communication as the lack of reply may have resulted from a technical problem. The City is under no obligation to respond to enquiries or provide additional information but may do so at its sole discretion.

Responses to inquiries may be distributed to all bidders on the invitation list as having received the bid documents as of the date the response is prepared. The source of the question will not be identified in the response. Verbal information shall not be binding upon the City. Inquiries received after the deadline for enquiries will not receive a response.

### **Tender to be Submitted on Prescribed Form**

Bidders are to submit their tender on the prescribed form contained in this document. Failure to submit on this form may result in the disqualification of the bid.

### **Taxes**

The bid price shall be all taxes extra. The City of Saint John shall be invoiced for and pay all applicable taxes related to this bid.

### **Schedule for the Bid Process**

Issue Date	Wednesday, March 22 <sup>nd</sup> , 2023
Pre-Bid Site Visit	Monday, March 27 <sup>th</sup> , 2023 at 10:00AM ADT
Deadline for Enquiries	Monday, March 27 <sup>th</sup> , 2023 at 4:00:00 pm, ADT
Deadline for Issuing Addenda	Tuesday, March 28 <sup>th</sup> , 2023 at 4:00:00 pm, ADT
Submission Deadline	Tuesday, April 4 <sup>th</sup> , 2023 at 2:30:00 pm, ADT
Date of Award	TBD

The Schedule for the bid process is tentative only and may be changed by the City in its sole discretion.

### **Advisory Notice(s)**

Periodically, the City of Saint John is required to issue clarification notices to a bid document in the form of Advisory Notices. Normally these notifications will not have a direct bearing on the cost of a project and will not influence bidding.

Bidders are responsible for obtaining all advisory notice(s) issued by the City. Advisory Notice(s) may be obtained from the City's website ([www.saintjohn.ca](http://www.saintjohn.ca)) under the Menu option, City Hall header, then "Tender and Proposals".

Bidders are instructed to sign the Advisory Notice and return it either by fax to (506) 658-4742 or email to [supplychainmanagement@saintjohn.ca](mailto:supplychainmanagement@saintjohn.ca) prior to the closing date. Failure to comply with the instructions on an advisory may result in rejection of the bid.

### **Addenda**

Periodically, the City of Saint John is required to issue notification of changes or corrections to a bid document by way of addenda. Normally these notifications will have direct bearing on the cost of a project and will influence bidding. Therefore, it is important that the City have assurances that bidders have in-fact received the notification(s).

Bidders are responsible for obtaining all addenda issued by the City. Addenda may be obtained from the City's website ([www.saintjohn.ca](http://www.saintjohn.ca)) under the Menu option, City Hall header, then "Tender and Proposals".

**Bidders are required to sign and include all addenda with their bid submission.**

Failure to include a copy of all signed addenda with the bid submission may result in rejection of the bid regardless of whether or not the changes noted in the addendum are included in the bid submission.

### **Mandatory Requirements**

Each submission will be evaluated to ensure that it complies with the mandatory requirements and may be rejected if it does not comply. The evaluation of mandatory requirements will confirm that:

- the submission was received prior to the applicable Submission Deadline;
- the bid submission is signed;
- the bid submission is legible;
- the bid submission does not contain a substantive qualification or conditions that are contrary to the terms of the bid document;
- the bid submission does not contain a change in price that was not initialled by the person who signed the submission; and
- the bid submission is in English;

### **Payment**

Payment shall be based on Net 45 Days from date of invoice or receipt of goods/services, whichever is later. Invoices can either be mailed to: City of Saint John, Accounts Payable Department, P.O. Box 1971, Saint John, NB, E2L 4L1, or by email to the Accounts Payable department (accountspayable@saintjohn.ca). Vendors are to ensure invoices are not sent both ways.

### **Pricing**

The tender prices shall include all installation wages, fringe benefits, insurance, transportation, delivery, duty, working tools, equipment costs, and any other charges incurred in order to provide required materials and/or services.

### **Holdback**

A Hold back of 10% of all monies due to the contractor will be retained by the City until 60 days after the substantial completion date of the work, approved by the project manager, and receipt of a statutory declaration.

### **Substitutes**

Substitute products will not be considered (where applicable).

### **Verbal Agreement**

No verbal agreement or conversation with any officer, agent or employee of the owner either before or after execution of the contract shall effect or modify any of the terms or obligations contained in any of the documents comprising the said contract.

### **Fax Tenders**

Tenders received by fax WILL NOT be accepted.

### **Late Bids**

Bids received after the time and date as shown in this document shall not be considered.

### **Cancellation Clause**

In the event that the successful bidder does not comply with the specifications and terms and conditions of this tender, at any time throughout the duration of the contract, the City of Saint John reserves the right to cancel the contract in its entirety.

### **Basis for Award**

A The city does not limit itself to accepting the lowest, or any tender submitted, but reserves the right to award the tender in any manner deemed to be in the City's best interest. It is the City of Saint John's intention to award this agreement to one Vendor.

### **No guarantee**

The City makes no guarantee as to the volume of the Deliverables.

### **Acceptance, Revocation and Rejection Of Tenders**

The bidder agrees that his tender is a firm offer to supply the goods and/or services specified herein at the quoted price, and in accordance with the terms and conditions herein contained. The bidder may revoke his tender at any time prior to the time fixed for tender opening by delivering, or causing to be delivered, written notice of revocation to the designated official at the City of Saint John. Revocation will take effect from the time the notice is actually received. A notice of revocation will not be accepted after the time fixed for tender opening.

The bid shall not be restricted by a statement added to the Tender Form, or by a covering letter, or by alterations to the tender form as supplied, unless otherwise provided herein and further, a tender form that has been altered in any way may be deemed to be a non-confirming bid and, therefore, rejected. Bidders shall be allowed to attach descriptive literature; whose sole purpose is to amplify the bid.

### **Due Diligence**

In the event that a health and safety offence is committed, the onus falls on the employer to prove that it exercised due diligence (i.e. did everything it reasonably could) in order to avoid the offence.

When hiring contractors, the City of Saint John is responsible for ensuring compliance with Health and Safety Legislation and must make sure that the appropriate accident prevention systems are implemented in the workplace.

Therefore, if any contractor is found to be working in an unsafe manner, or outside of current legislation, he will be made to stop work immediately. Any losses which may arise as a result of this work stoppage are the responsibility of the contractor.

Failure to comply with current legislation on the part of the contractor, may lead to cancellation of this contract and any bid deposits that may be in place.

## **Insurance**

The successful contractor shall provide evidence of the following insurance coverage:

General Liability with minimum limits of two million dollars, (\$2,000,000.00). The policy shall include:

- \*operations of the contractor in connection with this tender;
- \*products and completed operations coverage;
- \*contractual liability with respect to this tender;
- \*the City of Saint John added as an additional insured;
- \*a cross liability clause;
- \*non-owned automobile;
- \*thirty (30) days notice of cancellation of this policy "will" be given to the City of Saint John, by the insurers;

Standard automobile insurance for owned automobiles with at least the minimum limits allowed by law. This coverage is to remain in effect for the entire time frame of the contract.

## **WorkSafeNB Certificate and Business Corporations Act Certificate**

New Brunswick Tenderers shall provide to the City a WorkSafeNB certificate which confirms proper registration and good standing with WorkSafeNB and a Business Corporations Act Certificate which confirms proper registration and good standing with the Province of New Brunswick - Corporate Affairs within five (5) Working Days following the City's notice of selection.

Out-of-province Tenderers shall provide to the City a WorkSafeNB certificate which confirms proper registration and good standing with WorkSafeNB or a letter or certificate issued under the equivalent applicable legislation in the province of origin of the Tenderer confirming extension of coverage from said legislation to the Province of New Brunswick for the term of the Contract. Subject to paragraph c), out-of-province Tenderers shall also provide a Business Corporations Act Certificate which confirms proper registration and good standing with the Province of New Brunswick - Corporate Affairs within five (5) Working Days following the City's notice of selection.

Tenderers from Nova Scotia may submit the appropriate Business Corporations Act Certificate from the Province of Nova Scotia.

## **Reserved Rights**

The City reserves the right to:

- a) Reject an unbalanced bid submission. For the purpose of this section, an unbalanced bid submission is a bid submission containing a unit price which deviates substantially from, or does not fairly represent reasonable and proper compensation for the unit of work bid or one that contains prices which appear to be so unbalanced as to adversely affect the interests of the City. The City reserves the right to use other bids submitted in response to this bid solicitation or for other like or similar work as a guideline in determining if a bid is unbalanced.

- b) Amend or modify the scope of the Work, and/or cancel or suspend the bid award, at any time for any reason;
- c) Require bidders to provide additional information after the submission deadline to support or clarify their bid submission;
- d) Not accept any or all bids;
- e) Not accept a bid submission from a bidder who is itself, or whose principals, owners or directors are also principals, owners or directors of another entity which is, involved in litigation, arbitration or any other similar proceeding against the City;
- f) Reject any or all bid submissions without any obligation, compensation or reimbursement to any bidder or any of its team members;
- g) Withdraw this bid solicitation and cancel or suspend the bid process;
- h) Extend, from time to time, any date, any time period or deadline provided in this bid solicitation (including, without limitation, the submission deadline), upon written notice to all bidders;
- i) Assess and reject a bid submission on the basis of:
  - (i) information provided by references;
  - (ii) the bidder's past performance on previous contracts;
  - (iii) the information provided by a bidder pursuant to the City exercising its clarification rights under this bid process;
  - (iv) the bidder's experience with performing the type and scope of work specified;
  - (v) other relevant information that arises during this procurement process;
- j) Waive formalities and accept bids which substantially comply with the requirements of this bid solicitation;
- k) Verify with any bidder or with a third party any information set out in a bid submission;
- l) Disqualify any bidder whose bid submission contains misrepresentations or any other inaccurate or misleading information;
- m) Disqualify any bidder who has engaged in conduct prohibited by the bid solicitation;
- n) Make changes, including substantial changes, to the bid solicitation provided that those changes are issued by way of addenda in the manner set out in this bid document;
- o) Select any bidder other than the bidder whose bid submission reflects the lowest cost to the City;
- p) Cancel this procurement process at any stage, for any reason;

- q) Cancel this procurement process at any stage and issue a new bid solicitation for the same or similar deliverables;
- r) Accept any bid submission in whole or in part;
- s) Waive minor non-compliance with the mandatory requirements of the bid solicitation and accept the bid submission; or
- t) Accept a bid submission which contains the following errors:
  - (i) error in mathematics – whether this involves the extension of a unit price or an error in addition, the mistake will be corrected and the correct total will be used for evaluation purposes and will be binding on the bidder.
  - (ii) conflict between the written and numerical bid prices. In all cases, the total bid price will be corrected to reflect the written bid price, whether lump sum or unit price (where applicable).
  - (iii) failure to include the contingency allowance in the total bid price (where applicable). If the contingency allowance was not included in the addition, the bid price shall be corrected to reflect its inclusion.

and these reserved rights are in addition to any other express rights or any other rights which may be implied in the circumstances and the City shall not be liable for any expenses, costs, losses or any direct or indirect damages incurred or suffered by any bidder or any third party resulting from the City exercising any of its express or implied rights under this bid solicitation.

By submitting a bid, the bidder authorizes the collection by the City of the information set out at paragraph i) in the manner contemplated in that subparagraph.

#### **Limitation of Liability and Waiver**

Each bidder, by submitting a bid, agrees that:

- a) Neither the City nor any of its employees, agents, advisors or representatives will be liable, under any circumstances, for any Claim arising out of this procurement process including but not limited to costs of preparation of the bid submission, loss of profits, loss of opportunity or for any other Claim; and
- b) The bidder waives any Claim for any compensation of any kind whatsoever, including Claims for cost of preparation of the bid submission, loss of profit or loss of opportunity by reason of the City's decision to not accept the bid submitted by the bidder, to award a Contract to any other bidder or to cancel this procurement process, and the bidder shall be deemed to have agreed to waive such right or Claim.

**Validity Period**

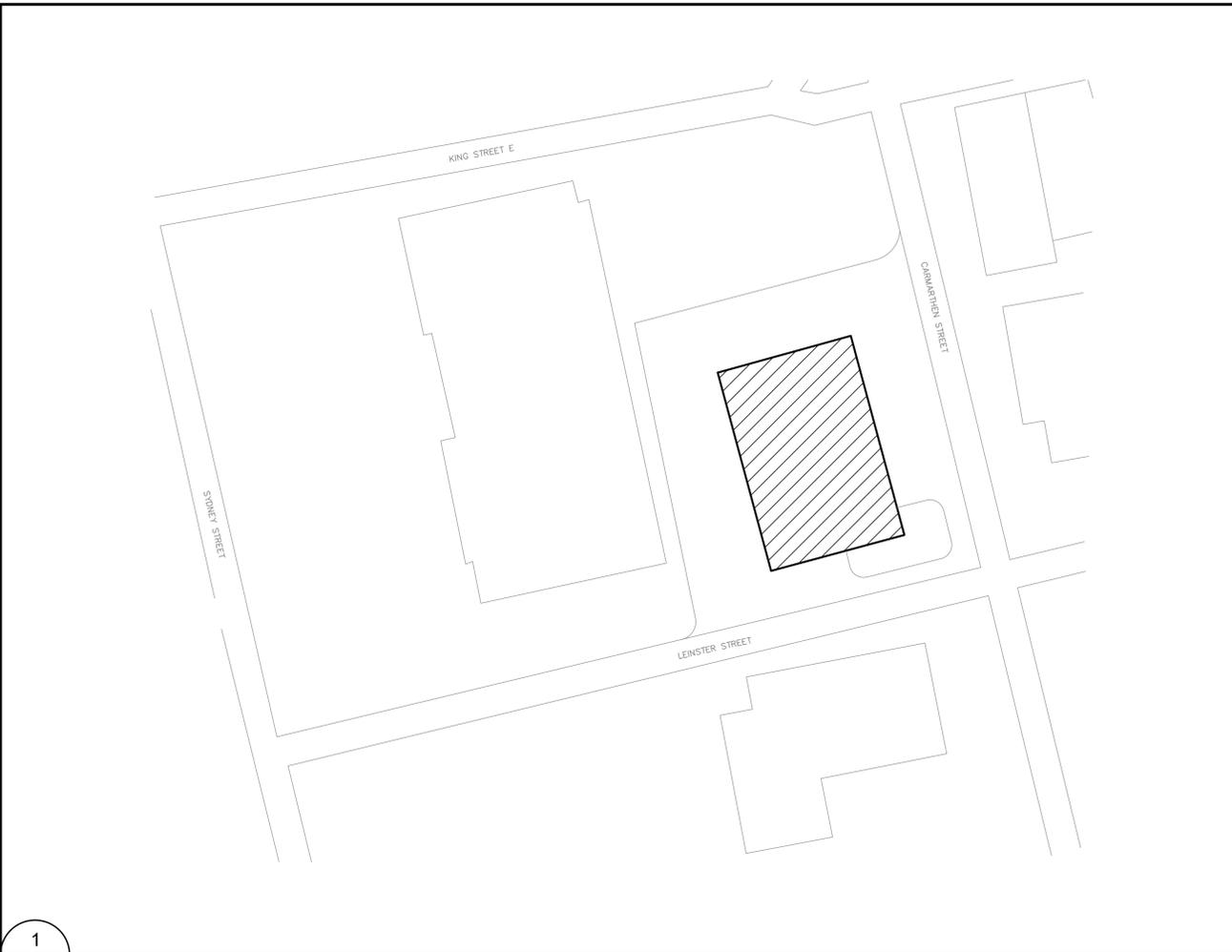
The bid submission constitutes an offer which shall remain open and irrevocable until 90 days after the submission deadline.

**Minor Irregularities**

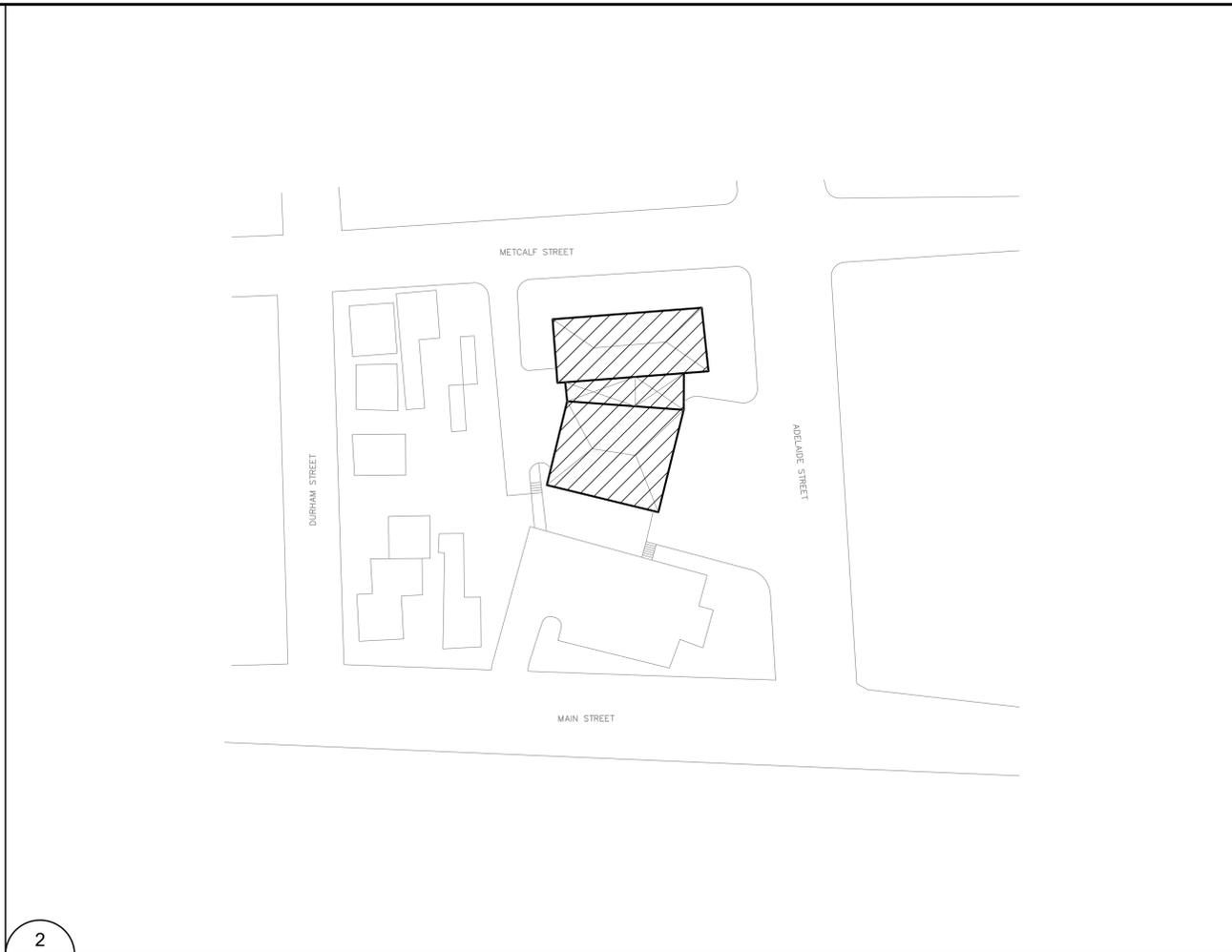
The City of Saint John reserves the right to waive minor non-compliances in accordance with Section 120 of the Province of New Brunswick's Regulation 2014-93 under the Procurement Act.

**APPENDIX A – SPECIFICATIONS**

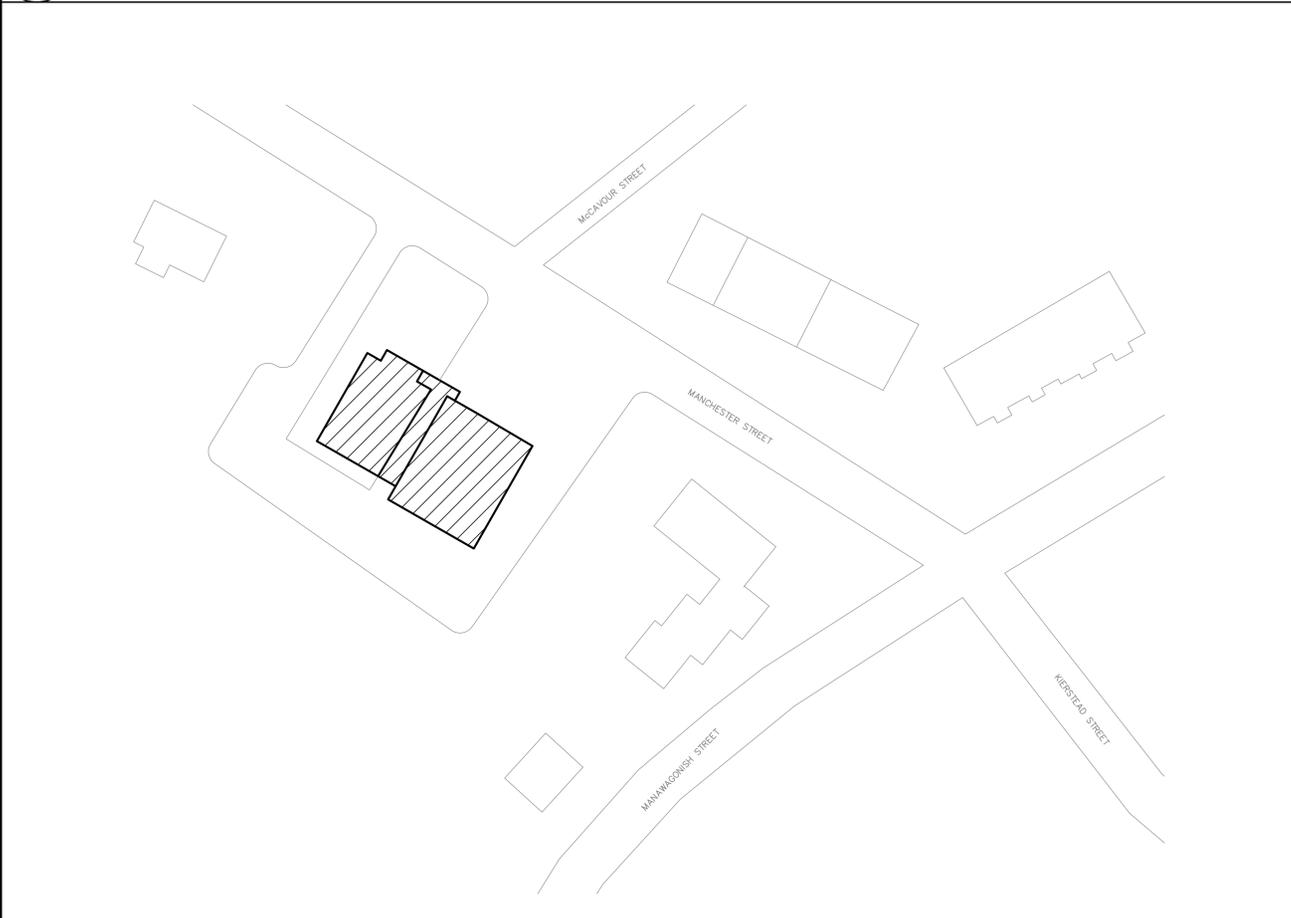
**TENDER No. 2023-082301T  
FIRE STATION #1, 5, & 7 LIGHTING RETROFIT**



1  
E-1 FIRE STATION #1 - SITE PLAN



2  
E-1 FIRE STATION #5 - SITE PLAN



3  
E-1 FIRE STATION #7 - SITE PLAN

- GENERAL NOTES:**
- ALL EXISTING SWITCHING, OCCUPANCY SENSORS, EXIT SIGNS AND LUMINAIRES NOT SHOWN ON DRAWINGS SHALL REMAIN (UNLESS NOTED OTHERWISE).
  - IN ROOMS WHERE LUMINAIRES ARE REMOVED AND EMERGENCY CIRCUITS OR UNSWITCHED NIGHT LIGHTS EXIST, ENSURE THAT EMERGENCY CIRCUITS REMAIN AND ALL EXISTING NIGHT LIGHT LUMINAIRES REMAIN UNSWITCHED. RE-FEED REMAINING LUMINAIRES AS REQUIRED.
  - OCCUPANCY SENSORS SHALL ONLY CONTROL LUMINAIRES ON NON-ESSENTIAL POWER.
  - IN ROOMS WITH MULTIPLE SENSORS, WIRE SENSORS IN PARALLEL WITH EACH OTHER, AND WIRE SWITCHES IN SERIES WITH SENSORS. SWITCHES SHALL BE WIRED FROM THE SECONDARY SIDE OF THE POWER PAK. SUPPLY AND INSTALL ALL NECESSARY CONTACTORS AND POWER PACKS REQUIRED FOR EACH CIRCUIT CONTROL ALONG WITH ALL BACK BOXES, CONDUIT AND WIRING FOR A FULL AND COMPLETE WORKING SYSTEM. SENSORS TO CONTROL BOTH BALLASTS IN EACH LUMINAIRE, WHERE APPLICABLE.
  - EXISTING LIGHT SWITCHES TO REMAIN WHETHER THE ROOM HAS AN OCCUPANCY SENSOR OR NOT. SWITCH USED TO OVERRIDE SENSOR.
  - ADJUST SENSITIVITY ON OCCUPANCY SENSORS TO PICK-UP PEOPLE ENTERING A ROOM, BUT NOT WALKING BY IN A CORRIDOR OR ANOTHER ROOM.
  - WHERE A LINE VOLTAGE SWITCH EXISTS IN A ROOM, THE CONTRACTOR MAY INSTALL A SWITCH MOUNT OCCUPANCY SENSOR IN LIEU OF A CEILING MOUNT TYPE PROVIDED SUCH METHOD IS DEEMED ACCEPTABLE BY THE ENGINEER AND/OR SENSOR MANUFACTURER REPRESENTATIVE.
  - CONTRACTOR TO VERIFY VOLTAGES PRIOR TO SHOP DRAWING SUBMITTAL.
  - ALL NEW AND RETROFITTED LUMINAIRES SHALL BE COMPLETE WITH A LOCAL MEANS OF DISCONNECT SUCH AS THE STA-KON LUMINAIRES QUICK DISCONNECT BY THOMAS & BETTS, OR APPROVED EQUAL.
  - LUMINAIRES SHOWN ON DRAWINGS ARE FOR QUANTITIES AND APPROXIMATE LOCATION; EXACT LOCATIONS SHALL BE VERIFIED ON SITE.
  - WHERE NEW LUMINAIRES INSTALLED ON PAINTED SURFACES ARE SHORTER OR NARROWER, PATCH AND PAINT ENTIRE CEILING OR WALL. CONTRACTOR SHALL ENGAGE A TRADES PERSON IN THAT FIELD TO CARRY OUT WORK.
  - VERIFY PHYSICAL SIZE OF EXISTING LUMINAIRES TO BE RETROFITTED PRIOR TO ORDERING NEW REPLACEMENT MATERIAL TO ENSURE A COMPLETE AND WORKING SYSTEM.
  - EXISTING LUMINAIRES BEING RETROFITTED SHALL BE THOROUGHLY CLEANED INCLUDING BOTH SIDES OF LENSES AND LOUVERS AS WELL AS INSIDE AND OUTSIDE OF LUMINAIRE FRAME/BODY USING A DAMP CLOTH TO REMOVE DUST AND RESIDUE.
  - EXISTING BALLAST COVERS MUST, AT TRADE CONTRACTORS OPTION, BE COMPLETELY CLEANED OF ANY TAR OR REPLACED WITH A NEW UNIT OF THE SAME CONSTRUCTION AT NO EXTRA COST.
  - ALL NEW AND RETROFITTED LUMINAIRES SHOWN ON FLOOR PLANS ARE A DIRECT ONE FOR ONE REPLACEMENT EXCEPT THOSE INDICATED BY DIAMOND NOTE  $\diamond$  AS DESCRIBED IN THE SPECIFIC NOTES.
  - ELECTRICAL CONTRACTOR SHALL PERFORM A POWER SHUT-DOWN OF EACH FACILITY TO ENSURE THE SEQUENCE OF OPERATION OF THE LUMINAIRES CONTROLLED BY LOW VOLTAGE SWITCHES ON EMERGENCY POWER WILL OPERATE DURING A POWER OUTAGE. SWITCHES MUST BE IN THE "OFF" POSITION WHEN THE EXERCISE IS PERFORMED. COORDINATE SHUT-DOWN WITH FIRE HOUSE CHIEF.

4  
E-1 NOTES

EXISTING LIGHTING CONTROL	NEW LIGHTING CONTROL
BUILDING MANAGEMENT SYSTEM (BMS) OR TIME CLOCK	BYPASS BUILT-IN PHOTOCELL
REMOTE MOUNT PHOTOCELL	BYPASS BUILT-IN PHOTOCELL
LOCAL SWITCH	DISCONNECT SWITCH AND ACTIVATE PHOTOCELL
BUILT-IN PHOTOCELL	ACTIVATE BUILT-IN PHOTOCELL

**NOTE:**  
IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL THE EXISTING CONTROLS AND PROCEED AS DIRECTED IN THE TABLE ABOVE AND INDICATE HOW EACH LUMINAIRE WILL BE CONTROLLED ON THE "AS-BUILT" DRAWINGS. VERIFY ALL EXISTING CONTROLS PRIOR TO SHOP DRAWING SUBMITTAL.

- 5  
E-1 EXTERIOR LIGHTING CONTROLS DETAIL
- LIGHTING**
- LINEAR LUMINAIRE, TYPE AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT. REFER TO LUMINAIRE SCHEDULE FOR TYPE.
  - CEILING MOUNTED LUMINAIRE, REFER TO LUMINAIRE SCHEDULE FOR TYPE.
  - WALL MOUNTED LUMINAIRE, REFER TO LUMINAIRE SCHEDULE FOR TYPE.
- LIGHTING CONTROL**
- ONE AND TWO GANG SINGLE POLE TOGGLE SWITCHES.
  - 120V LINE VOLTAGE, DUAL TECHNOLOGY SWITCH MOUNTED OCCUPANCY SENSOR SENSORSWITCH #MSX-PDT-MATCH EXISTING COLOR.
  - 120V LINE POWERED, SINGLE POLE WIRELESS DIMMER SWITCH, ALIGHT #RFOLA-DX-MVOLT-G2 MATCH EXISTING COLOR.
  - 120V CEILING MOUNTED NORMAL RANGE DUAL TECHNOLOGY OCCUPANCY SENSOR SENSORSWITCH #CMR-PDT-9-120 OR APPROVED EQUAL.
  - 120V CEILING MOUNTED EXTENDED RANGE DUAL TECHNOLOGY OCCUPANCY SENSOR SENSORSWITCH #CMR-PDT-10-120 OR APPROVED EQUAL.
- MISCELLANEOUS**
- ELECTRICAL DRAWING NOTES
- ABBREVIATIONS**
- DEL - INDICATES DEVICE TO BE DELETED
  - EX - INDICATES EXISTING DEVICE TO REMAIN
  - NTS - NOT TO SCALE

6  
E-1 LEGEND



CLIENT:  
SAINT JOHN

CONSULTANT:  
MCW Maricor  
120 MILLENIUM DRIVE, SUITE 201  
SAINT JOHN, NB E2E 0G6  
BUS: (506) 847-6285 FAX: (506) 848-2131  
WWW.MCW.COM ENG. JOB NO. 1222-076  
PKG. A13A

KEYPLAN:

STAMP:  
REGISTERED PROFESSIONAL ENGINEER  
M7172  
18/03/23  
INCORPORATED  
INGENIEUR IMMATRICULE

NO.	ISSUED FOR TENDER	DATE	T.D.
0	ISSUED FOR TENDER	2023/03/14	T.D.
NO.	REVISIONS	DATE	INIT.
		YYYY/MM/DD	

PROJECT TITLE:  
**CITY OF SAINT JOHN  
FIRE STATIONS #1, 5 & 7  
LIGHTING RETROFIT**

DRAWING TITLE:  
**FIRE STATION #1, 5 & 7  
SITE PLANS, LEGEND  
AND NOTES**

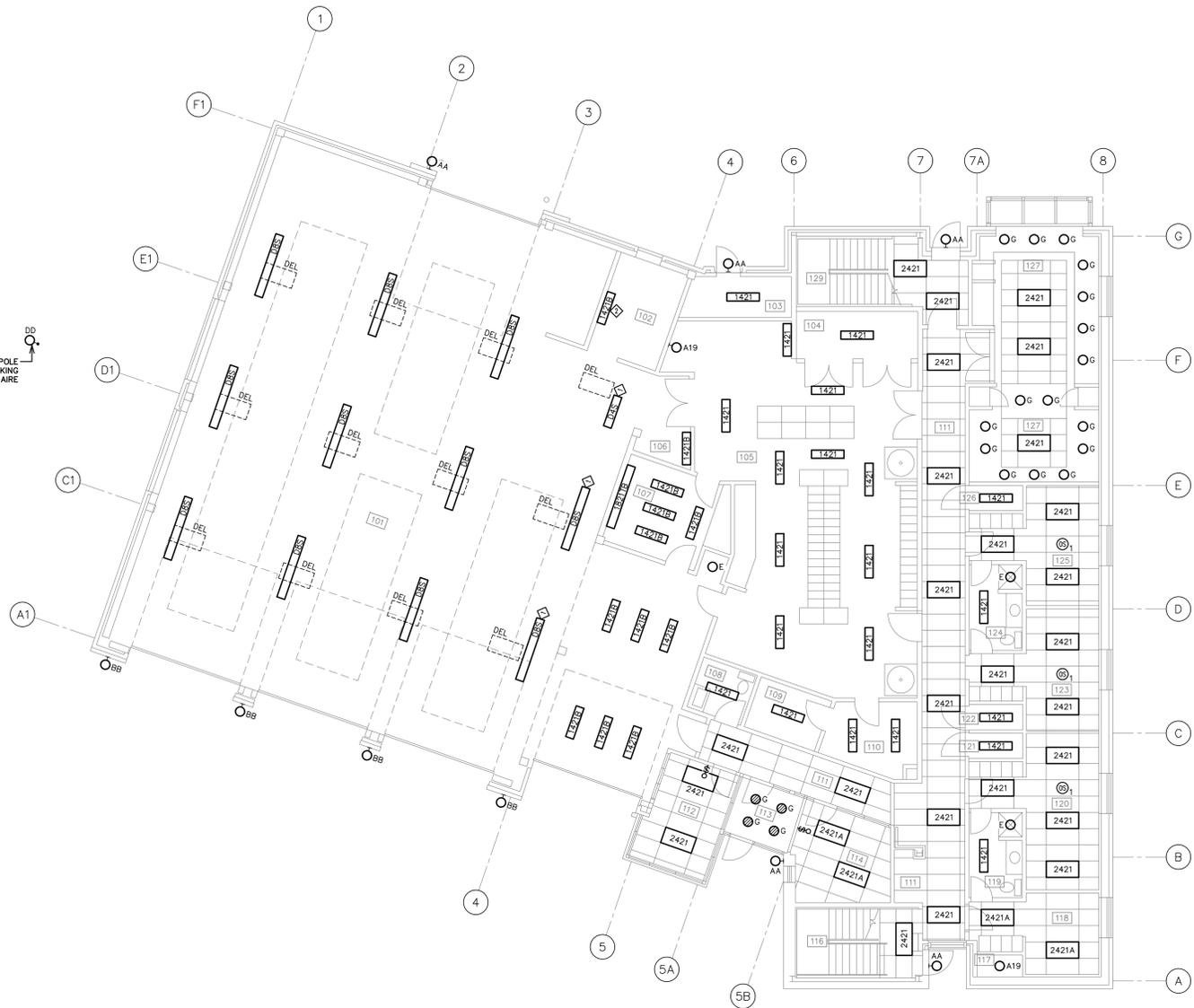
SCALE: AS NOTED DATE: MARCH 2023

DRAWN BY: M.J.G. DRAWING NO: E-1 OF 5

CHECKED BY: B.C.



EXTERIOR POLE MOUNTED PARKING LOT LUMINAIRE



1  
E-3 GROUND FLOOR PLAN - LIGHTING

2  
E-3 SECOND FLOOR PLAN - LIGHTING

~1:100

~1:100

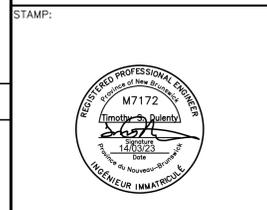
3  
E-3 NOTES

- SPECIFIC NOTES:**
- ◇ NO LUMINAIRE IN THIS LOCATION PRESENTLY. EXTEND EXISTING WIRING AS REQUIRED.
  - ◇ SUPPLY AND INSTALL NEW LENS TO MATCH EXISTING LUMINAIRE.



CONSULTANT:  
**MCW** Maricor  
120 MILLENIUM DRIVE, SUITE 201  
SAINT JOHN, NB E2E 0G6  
BUS: (506) 847-6285 FAX: (506) 848-2131  
WWW.MCW.COM ENG. JOB NO. 1222-076  
PKG A13A

KEYPLAN:



NO.	ISSUED FOR TENDER	DATE	INIT.
0	ISSUED FOR TENDER	2023/03/14	T.D.
	REVISIONS	DATE	INIT.
		YYYY/MM/DD	

PROJECT TITLE:  
**CITY OF SAINT JOHN  
FIRE STATIONS #1, 5 & 7  
LIGHTING RETROFIT**

DRAWING TITLE:  
**FIRE STATION #5  
35 ADELAIDE ST.  
GROUND FLOOR AND  
SECOND FLOOR - LIGHTING**

SCALE: AS NOTED	DATE: MARCH 2023
DRAWN BY: M.J.G.	DRAWING NO: <b>E-3</b>
CHECKED BY: B.C.	<b>OF 5</b>

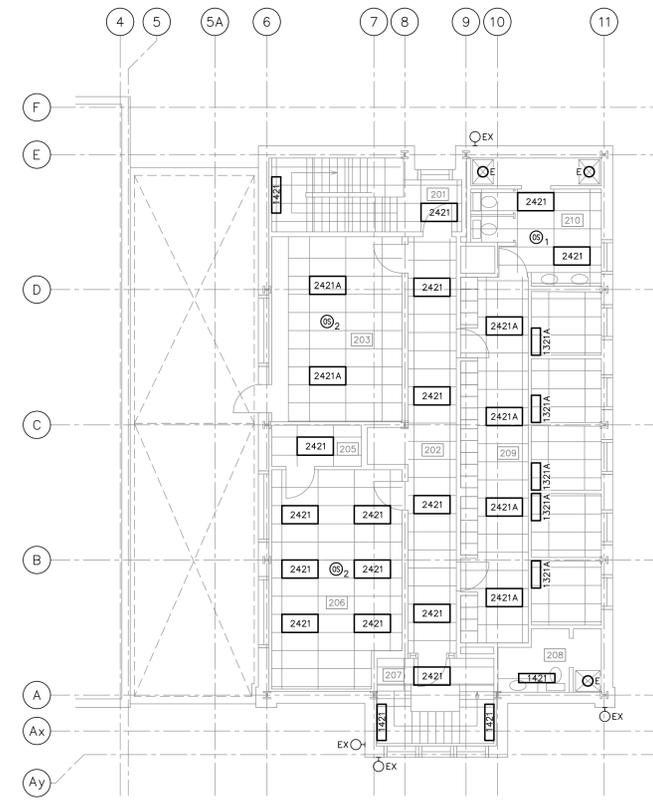
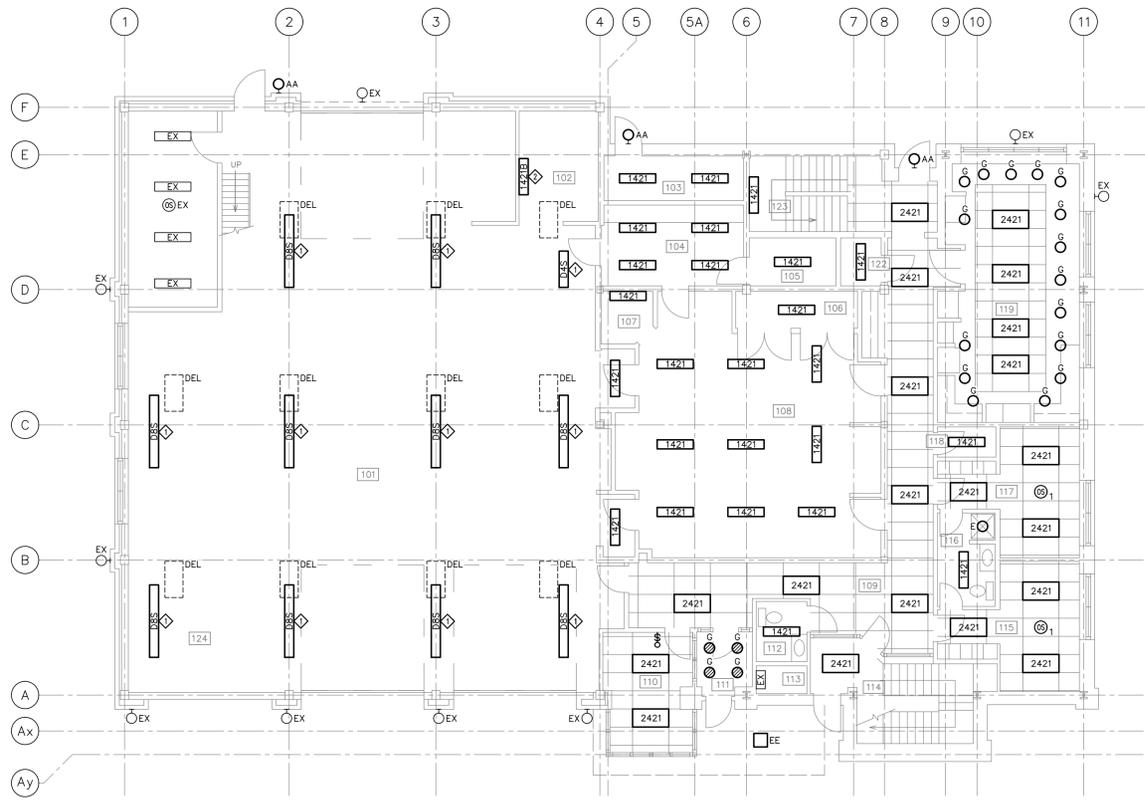
N.T.S.



CONSULTANT:

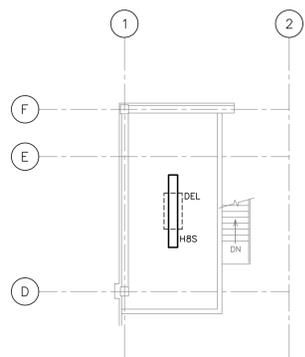


KEYPLAN:



1  
E-4 GROUND FLOOR PLAN - LIGHTING

2  
E-4 SECOND FLOOR PLAN - LIGHTING



3  
E-4 MEZZANINE - LIGHTING

4  
E-4 NOTES

- SPECIFIC NOTES:**
- ◇ NO LUMINAIRE IN THIS LOCATION PRESENTLY. EXTEND EXISTING WIRING AS REQUIRED.
  - ◇ SUPPLY AND INSTALL NEW LENS TO MATCH EXISTING LUMINAIRE.

STAMP:



0	ISSUED FOR TENDER	2023/03/14	T.D.
NO:	REVISIONS	DATE	INIT.
		YYYY/MM/DD	

PROJECT TITLE:  
**CITY OF SAINT JOHN  
FIRE STATIONS #1, 5 & 7  
LIGHTING RETROFIT**

DRAWING TITLE:  
**FIRE STATION #7  
41 MANCHESTER AVE.  
GROUND FLOOR AND  
SECOND FLOOR - LIGHTING**

SCALE:	AS NOTED	DATE:	MARCH 2023
DRAWN BY:	M.J.G.	DRAWING NO.:	<b>E-4</b>
CHECKED BY:	B.C.		<b>OF 5</b>

N.T.S.

## LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION	VOLTAGE	MOUNTING	LAMP/SOURCE	NOTES
A1 AIR AIS	LITHONIA #EPANL-1X4-400LM- B0CR1-35K-MINI-ZT- MVOLT	1'x4' LED FLAT PANEL LUMINAIRE WITH INTEGRAL T-BAR CLIPS, LOW PROFILE, EXTRUDED ALUMINUM FRAME AND SATIN WHITE LENS, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L70/50,000HRS.	120	RECESSED IN T/BAR	371W 381 LUMENS 3500K 80 CRI	1,2,3,4,5
A2 AZB AZS	LITHONIA #EPANL-2X2-400LM- B0CR1-35K-MINI-ZT- MVOLT	2'x2' LED FLAT PANEL LUMINAIRE WITH INTEGRAL T-BAR CLIPS, LOW PROFILE, EXTRUDED ALUMINUM FRAME AND SATIN WHITE LENS, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L70/50,000HRS.	120	RECESSED IN T/BAR	37W 3963 LUMENS 3500K 80 CRI	1,2,3,4,5
A4 AAR AAS	LITHONIA #EPANL-2X4-400LM- B0CR1-35K-MINI-ZT- MVOLT	2'x4' LED FLAT PANEL LUMINAIRE WITH INTEGRAL T-BAR CLIPS AND SQUARE SMOOTH IMPACT MODIFIED ACRYLIC FROSTED CENTER DIFFUSER, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L70/50,000HRS.	120	RECESSED IN T/BAR	38W 4071 LUMENS 3500K 80 CRI	1,2,3,4,5
B1 BIR BIS	LITHONIA #BLT14-40L-SDSM-MVOLT- E21-LP835	1'x4' RECESSED VOLUIMETRIC LED LUMINAIRE WITH T-BAR CLIPS AND SQUARE SMOOTH IMPACT MODIFIED ACRYLIC FROSTED CENTER DIFFUSER, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L80/60,000HRS.	120	RECESSED IN T/BAR	33W 4114 LUMENS 3500K 80 CRI	1,2,3,4,5
B2 B2R B2S	LITHONIA #BLT12-40L-SDSM- MVOLT-E21-LP835	2'x2' RECESSED VOLUIMETRIC LED LUMINAIRE WITH T-BAR CLIPS AND SQUARE SMOOTH IMPACT MODIFIED ACRYLIC FROSTED CENTER DIFFUSER, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L80/60,000HRS.	120	RECESSED IN T/BAR	32W 4041 LUMENS 3500K 80 CRI	1,2,3,4,5
B4 B4R B4S	LITHONIA #BLT14-40L-SDSM- MVOLT-E21-LP835	2'x4' RECESSED VOLUIMETRIC LED LUMINAIRE WITH T-BAR CLIPS AND SQUARE SMOOTH IMPACT MODIFIED ACRYLIC FROSTED CENTER DIFFUSER, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L80/60,000HRS.	120	RECESSED IN T/BAR	32W 4000 LUMENS 3500K 80 CRI	1,2,3,4,5
C4 CAR CAS	LITHONIA #BLWPA-40L-SDSM- MVOLT-E21-LP835	4' LINEAR SURFACE MOUNTED LED WRAP/WALL BRACKET WITH SQUARE SMOOTH IMPACT MODIFIED ACRYLIC FROSTED CENTER DIFFUSER, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L80/60,000HRS.	120	WALL MOUNTED	35W 4391 LUMENS 3500K 80 CRI	1,2,4,5
D4S	LITHONIA #DLX-148-7000L-SEF- WEL-MVOLT-E21-40K- B0CR1-NLTAIR2-RES7PDT- WH-ZACVH	4' LOW PROFILE LED STRIP LUMINAIRE, HIGH GLOSS, BAKED WHITE ENAMEL FINISH WITH SOFT PLASTIC END CAPS AND WIDE DIFFUSE LENS, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L70/100,000HRS.	120	SURFACE MOUNTED OR SUSPENDED	45W 7665 LUMENS 4000K 80 CRI	1,2
D8S	LITHONIA #DLX-196-14000L-SEF- WEL-MVOLT-E21-40K- B0CR1-NLTAIR2-RES7PDT- WH-ZACVH	8' LOW PROFILE LED STRIP LUMINAIRE, HIGH GLOSS, BAKED WHITE ENAMEL FINISH WITH SOFT PLASTIC END CAPS AND WIDE DIFFUSE LENS, 0-10 VOLT DIMMING DRIVER DIMS TO 10%. RATED L70/100,000HRS.	120	SURFACE MOUNTED OR SUSPENDED	93W 15331 LUMENS 4000K 80 CRI	1,2
E	LITHONIA #FMM-7-8-35-WL	7" ROUND SURFACE MOUNTED LED LUMINAIRE, ROBUST ALUMINUM HOUSING, MATTE WHITE ACRYLIC DIFFUSER, MINIMUM 80 CRI, RATED 50,000HRS.	120	SURFACE MOUNTED	10W 642 LUMENS 3000K 80 CRI	1
F	LITHONIA #FMLR-11-148-35-WL	11" ROUND SURFACE MOUNTED LED LUMINAIRE, ROBUST ALUMINUM HOUSING, MATTE WHITE ACRYLIC DIFFUSER, MINIMUM 80 CRI, RATED 50,000HRS.	120	SURFACE MOUNTED	16W 1100 LUMENS 3500K 80 CRI	1
G	LITHONIA #BRB-AL02-SWH-AR- LSS-MVD-MVOLT-U02	6" RECESSED LED DOWNLIGHT RETROFIT KIT C/W ADJUSTABLE LUMEN OUTPUT, SWITCHABLE COLOR TEMPERATURE, MEDIUM WIDE LIGHTING DISTRIBUTION, 0-10V DIMMING DRIVER DIMS TO 10%.	120	RECESSED	19W 2011 LUMENS 3500K 80 CRI	1
H4	LITHONIA #CSS-148-AL03-MVOLT- SW3-80CR1	4' LINEAR LED LUMINAIRE, COMPACT DESIGN CHANNEL AND COVER FORMED FROM CODE-GAUGE COLD-ROLLED STEEL, HIGH-GLOSS, BAKED WHITE ENAMEL FINISH, C/W VERTX SENSOR, DIFFUSE POLYCARBONATE LENS, 0-10V DIMMING DRIVER DIMS TO 10%.	120	SURFACE MOUNTED	36W 4135 LUMENS 3500K 80 CRI	1,2
H4S	LITHONIA #CSS-148-AL04-MVOLT- SW3-80CR1	4' LINEAR LED LUMINAIRE, COMPACT DESIGN CHANNEL AND COVER FORMED FROM CODE-GAUGE COLD-ROLLED STEEL, HIGH-GLOSS, BAKED WHITE ENAMEL FINISH, C/W VERTX SENSOR, DIFFUSE POLYCARBONATE LENS, 0-10V DIMMING DRIVER DIMS TO 10%.	120	SURFACE MOUNTED OR SUSPENDED	36W 4135 LUMENS 3500K 80 CRI	1,2
H8S	LITHONIA #SS-196-AL04- MVOLT-SW3-80CR1- SF7CSS	8' LINEAR LED LUMINAIRE, COMPACT DESIGN CHANNEL AND COVER FORMED FROM CODE-GAUGE COLD-ROLLED STEEL, HIGH-GLOSS, BAKED WHITE ENAMEL FINISH, C/W VERTX SENSOR, DIFFUSE POLYCARBONATE LENS, 0-10V DIMMING DRIVER DIMS TO 10%.	120	SURFACE MOUNTED OR SUSPENDED	50W 6495 LUMENS 4000K 80 CRI	1,2
AA	LITHONIA #TW1-LED-AL0-30K- MVOLT-PE-DOBXD	WALL MOUNTED EXTERIOR LED WALL PACK, TWO-PIECE DIE-CAST ALUMINUM HOUSING COMPLETELY SEALED (IP68), DOOR WITH BOROGLASS GLASS REFLECTOR HINGES ON EITHER SIDE, FIELD ADJUSTABLE LUMEN OUTPUT SET TO LEVEL 3. RATED L90/100,000HRS.	120	WALL MOUNTED AT EXISTING LOCATION	9W 1350 LUMENS 3000K 70 CRI	1,2
BB	LITHONIA #ARC2-LED-P5-30K- MVOLT-FAO-DOBXD	WALL MOUNTED EXTERIOR LED WALL PACK, DIE-CAST ALUMINUM HOUSING AND DOOR FRAME FULLY GASKETED AGAINST MOISTURE (IP68), DARK BRONZE POLYESTER POWDER COAT FINISH, FIELD ADJUSTABLE LUMEN OUTPUT, RATED L90/100,000HRS.	120	WALL MOUNTED AT EXISTING LOCATION	51W 626 LUMENS 3000K 80 CRI	1,2
BB1	LITHONIA #TR1-LED-AL0-SW2Z- MVOLT-PE-DOBXD	WALL MOUNTED EXTERIOR LED WALL PACK, DIE-CAST ALUMINUM HOUSING AND DOOR FRAME FULLY GASKETED AGAINST MOISTURE (IP68), BRONZE POLYESTER POWDER COAT FINISH, FIELD ADJUSTABLE LUMEN OUTPUT, RATED L90/100,000HRS.	120/347	WALL MOUNTED AT EXISTING LOCATION	36W 500 LUMENS 3000K 80 CRI	1,2
CC1	LITHONIA #DSV3-LED-6-P2-30K- FRWB-DDB-U	EXTERIOR LED FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONSTRUCTION, INTEGRAL HEAT SINK FINS, HOUSING AND LENS FRAME COMPLETELY SEALED AGAINST MOISTURE AND ENVIRONMENTAL CONTAMINANTS, IP68 RATED, FLOOD DISTRIBUTION C/W TOP MOUNT VISOR, RATED L90/100,000HRS.	120	WALL MOUNTED AT EXISTING LOCATION	138W 19322 LUMENS 3000K 70 CRI	1,2,6,7
CC2	LITHONIA #DSV2-LED-P2-30K- MFL-MVOLT-IS-PE-UBV- DOBXD + FRWB-DOB-U	EXTERIOR LED FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONSTRUCTION, INTEGRAL HEAT SINK FINS, HOUSING AND LENS FRAME COMPLETELY SEALED AGAINST MOISTURE AND ENVIRONMENTAL CONTAMINANTS, IP68 RATED, MEDIUM FLOOD DISTRIBUTION C/W TOP MOUNT VISOR, RATED L90/100,000HRS.	120	WALL MOUNTED AT EXISTING LOCATION	78W 9671 LUMENS 3000K 70 CRI	1,2,6,7
CC3	LITHONIA #DSV2-LED-P1-30K- HMF-MVOLT-IS-PE-UBV- DOBXD + FRWB-DOB-U	EXTERIOR LED FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONSTRUCTION, INTEGRAL HEAT SINK FINS, HOUSING AND LENS FRAME COMPLETELY SEALED AGAINST MOISTURE AND ENVIRONMENTAL CONTAMINANTS, IP68 RATED, HORIZONTAL FLOOD DISTRIBUTION C/W TOP MOUNT VISOR, RATED L90/100,000HRS.	120	WALL MOUNTED AT EXISTING LOCATION	54W 6580 LUMENS 3000K 70 CRI	1,2,6,7
CC4	LITHONIA #DSV1-LED-P2-50K- NSP-MVOLT-IS-PE-UBV- DOBXD	EXTERIOR LED FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONSTRUCTION, INTEGRAL HEAT SINK FINS, HOUSING AND LENS FRAME COMPLETELY SEALED AGAINST MOISTURE AND ENVIRONMENTAL CONTAMINANTS, IP68 RATED, NARROW SPOT DISTRIBUTION C/W TOP MOUNT VISOR, RATED L90/100,000HRS.	120	WALL MOUNTED AT EXISTING LOCATION	42W 5242 LUMENS 3000K 70 CRI	1,2,6
DD	LITHONIA #R52-LED-P2-30K- R3-MVOLT-IS-PE-NLTAIR2- PIRH-DOBXD	EXTERIOR LED FLOODLIGHT, RUGGED DIE-CAST ALUMINUM BODY, ZINC-PHOSPHOR THERMOSET POWDER COAT FINISH PROVIDES RESISTANCE TO CORROSION AND WEATHERING, WIDE DISTRIBUTION C/W NETWORKED, BI-LEVEL MOTION/AMBIENT SENSOR, RATED L92/100,000HRS.	120	WALL MOUNTED AT EXISTING LOCATION	111W 15657 LUMENS 3000K 70 CRI	1,2,6
EE	NEW STAR #AGV-11-0P-12-30K	16" X 16" SURFACE MOUNTED LED LUMINAIRE, WHITE PAINTED EXTRUDED ALUMINUM FRAME ENCASED IN A 16 GAUGE COLD-ROLLED STEEL FRAME WITH BEVELED EDGES TO DEFLECT THE FORCE OF AN IMPACT. POLYESTER POWDER COAT FINISH.	120	CANOPY MOUNTED AT EXISTING LOCATION	18W 1344 LUMENS 3000K	1,2

- NOTES:**
- VERIFY EXISTING VOLTAGE PRIOR TO SHOP DRAWING SUBMITTAL.
  - PROVIDE TWO (2) SPARE DRIVERS FOR ATTIC STOCK AND TAG TO MATCH LUMINAIRE TYPE.
  - PROVIDE ADDITIONAL CABLE LENGTH TO ENABLE LUMINAIRE TO BE LOWERED OR RELOCATED TO AVOID SHADOWING.
  - SUFFIX 'R' DENOTES LUMINAIRE SHALL BE NIGHT ENABLED WITH NLTAIR2-RIO CONTROL MODULE (U.N.O).
  - SUFFIX 'S' DENOTES LUMINAIRE SHALL BE NIGHT ENABLED WITH NLTAIR2-RESTRICT CONTROL MODULE (U.N.O).
  - PROVIDE NEW MOUNTING HARDWARE AND CORD SETS AS REQUIRED; EXACT MOUNTING TO BE DETERMINED ON SITE.
  - PROVIDE NEW BUILDING MOUNT RIGHT ANGLE WALL BRACKET PROPERLY FASTENED TO BRICK WALL AND A WEATHERPROOF GASKET OVER EXISTING OUTLET BOX.

### 1. GENERAL REQUIREMENTS

- THESE ELECTRICAL SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THE GENERAL REQUIREMENTS, ELECTRICAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.
- SCOPE OF WORK
  - THIS CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF COMPLETELY FINISHED, TESTED, BALANCED AND PROPERLY OPERATING ELECTRICAL SYSTEMS AS SPECIFIED HEREIN AND AS INDICATED ON DRAWINGS, WITH INTENT TO PROVIDE FOR FINISHED WORK COMPLETE IN ALL ESSENTIALS AS CALLED FOR BY THE CONTRACT DOCUMENTS, IN A MANNER CONSISTENT WITH GOOD WORKMANSHIP.
- CODES AND STANDARDS
  - ALL WORK SHALL BE DONE IN ACCORDANCE WITH CSA C22.1-21, CANADIAN ELECTRICAL CODE, PART 1, (2021 EDITION) AND THE NATIONAL BUILDING CODE OF CANADA 2015.
- PERMIT AND BY-LAWS
  - OBTAIN PERMITS AND CERTIFICATIONS PRIOR TO START OF WORK. SUBMIT DRAWINGS TO INSPECTION AUTHORITY, COORDINATE SERVICES WITH SAINT JOHN ENERGY, PAID ASSOCIATED FEES.
  - ALL WORK PERFORMED BY THIS CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, LOCAL BY-LAWS, STANDARDS AND THEIR AMENDMENTS.
- SITE VISIT
  - PRIOR TO TENDER CLOSE, THIS CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND VOLTAGES. NO ALLOWANCE SHALL BE MADE FOR PROBLEMS THAT MAY ARISE DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS THAT COULD REASONABLY HAVE BEEN ASCERTAINED BY A CAREFUL INSPECTION.
- COORDINATION OF WORK
  - THIS CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE GENERAL CONTRACTOR AND WITH ALL OTHER SUB-CONTRACTORS. SCHEDULE AND PERFORM ALL WORK IN EXISTING PREMISES WITH OWNERS SO AS NOT TO INTERFERE WITH NORMAL OPERATIONS OF BUILDING OCCUPANTS. ANY DISRUPTIVE WORK SHALL BE SCHEDULED OUTSIDE OPERATING HOURS AND AS APPROVED BY THE GENERAL CONTRACTOR.
  - COOPERATE WITH OTHER TRADES, OWNER AND OWNER'S FORCES IN CARRYING OUT WORK. REPORT ANY DEFICIENCIES OR DEFECTS IN WORK IMMEDIATELY TO THE GENERAL CONTRACTOR.
  - WHERE WORK IS CARRIED OUT IN EXISTING PREMISES, NOTIFY OWNER AT LEAST 72 HOURS IN ADVANCE OF ANY NECESSARY INTERRUPTIONS IN SERVICES OR ACCESS.
- GUARANTEE
  - THIS CONTRACTOR SHALL PROVIDE, IN WRITING, A GUARANTEE COVERING ALL LABOR AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION, REPAIR AND MAKE GOOD ALL DEFECTS DURING THE GUARANTEE PERIOD, INCLUDING ANY DAMAGE TO BUILDING OR EQUIPMENT INSTALLED.
- DRAWINGS
  - ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. MAINTAIN ONE SET OF PLANS INCLUDING ALL LABOR AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION, REPAIR AND MAKE GOOD ALL DEFECTS DURING THE GUARANTEE PERIOD, INCLUDING ANY DAMAGE TO BUILDING OR EQUIPMENT INSTALLED.
- EXTRA WORK
  - ALLOWANCE SHALL BE MADE ABOVE CONTRACT PRICE UNLESS CONTRACTOR RECEIVES SIGNED APPROVAL IN ACCORDANCE WITH GENERAL CONDITIONS.
- CUTTING, PATCHING AND FIRESTOPPING
  - ALL CUTTING, PATCHING AND FIRESTOPPING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL LOCATE THE EXACT DIMENSIONS AND POSITIONS OF OPENINGS AND HOLES WHERE CUTTING IS REQUIRED.
- SHOP DRAWINGS
  - THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE GENERAL REQUIREMENTS. WORK SHALL NOT PROCEED AND EQUIPMENT/MATERIAL SHALL NOT BE ORDERED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND SIGNED. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION OF CHECKING THE DRAWINGS THEMSELVES OR FURNISHING THE MATERIALS SPECIFIED.
  - WHEN SUBMITTED, SHOP DRAWING MUST BEAR CONTRACTOR'S STAMP REPRESENTING THAT THEY HAVE DETERMINED AND VERIFIED ALL VOLTAGES, FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOGUE NUMBERS AND SIMILAR DATA AND THAT THEY HAVE CHECKED AND COORDINATED EACH SHOP DRAWING WITH REQUIREMENTS OF WORK AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
  - SHOP DRAWINGS REQUIRED FOR: LUMINAIRES, LAMPS, BALLASTS, CONTROLS AND WIRING DEVICES. INFORMATION REQUIRED: MANUFACTURER'S DIMENSIONS, CONSTRUCTION DETAILS, ACCESSORIES, INSTALLATION DETAILS, CAPACITIES, PERFORMANCE DATA, FINISHES, INCLUDE WIRING SINGLE LINE AND SCHEMATIC DIAGRAMS WHEN APPLICABLE.
  - ALL MATERIAL SUPPLIED SHALL BE NEW AND CARRY C.S.A. CERTIFICATION OR OTHER CERTIFICATIONS APPROVED BY LOCAL INSPECTION AUTHORITY.
- CLEANING UP
  - THIS CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE NEAT, CLEAN AND FREE FROM ACCUMULATION OF WASTE MATERIALS.
- OPERATION AND MAINTENANCE INSTRUCTIONS
  - THIS CONTRACTOR SHALL INSTRUCT THE OWNER IN OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND SYSTEMS INSTALLED SUCH AS DIMMING SYSTEM AND LIGHTING CONTROL SYSTEM, ALL CONTROL FEATURES SHALL BE RETURNED TO FACTORY INSTANT START POSITION OF OPERATION AND MAINTENANCE INSTRUCTIONS, TOGETHER WITH ALL APPROVED SHOP DRAWINGS AND SPARE PARTS LIST FASTENED IN A BINDER, AND ONE ELECTRONIC COPY, SHALL BE SUBMITTED TO THE OWNER. MANUALS COMPLETE WITH:
    - DETAILS OF CONSTRUCTION FEATURES,
    - COMPONENT FUNCTION AND MAINTENANCE REQUIREMENTS, TO PERMIT EFFECTIVE START-UP, OPERATION, MAINTENANCE, REPAIR, MODIFICATION, EXTENSION AND EXPANSION OF ANY PORTION OR FEATURE OF INSTALLATION.

- DISPOSAL
  - OWNER OF AVAILABILITY OF SURPLUS MATERIAL, TURN OVER TO USER REQUESTED BY OWNER AND DISPOSE OF REMAINDER IN ACCORDANCE WITH ALL BY LAWS AND LOCAL AUTHORITIES HAVING JURISDICTION.
- DEMOLITION
  - DISCONNECT AND REMOVE ALL DEVICES, COMPONENTS, EQUIPMENT AND EXPOSED RACEWAYS, WIRES AND CABLES, BACK TO SOURCE OF SUPPLY, MAKE REDUNDANT BY THIS WORK INCLUDING THOSE WITHIN WALLS AND SUSPENDED CEILINGS, MAKE SAFE ANY REMAINING LIVE CONNECTIONS, LEAVE POLYPROPYLENE PULL CORD IN EACH EMPT CONDUIT, TAG EACH EMPT CONDUIT AT EACH END WITH LOCATION OF OTHER END.
  - ELECTRICAL CONTRACTOR SHALL ENSURE ELECTRICAL CONTINUITY TO EXISTING DEVICES REMAINING.
  - RELOCATE EXISTING WIRING, RACEWAYS, FIXTURES AND DEVICES AS REQUIRED TO MAINTAIN REASONABLE ACCESSIBILITY AND TO FACILITATE INSTALLATION OF TOTAL PROJECT WORK.
  - REVIEW LOADING ON EACH AFFECTED CIRCUIT PRIOR TO START OF CONSTRUCTION AND ADJUST AS NECESSARY TO PREVENT OVERLOADS.
  - WHERE NEW DRYWALL COVERS EXISTING JUNCTION OR PULL BOXES, INSTALL ACCESS HATCHES.
  - REMOVE CONTAMINATED OR DANGEROUS MATERIALS AS DEFINED BY AUTHORITIES HAVING JURISDICTION RELATING TO ENVIRONMENTAL PROTECTION FROM SITE AND STORED IN A SAFE MANNER TO MINIMIZE DANGER AT SITE OR DURING DISPOSAL.

- ### 2. BASIC MATERIAL AND METHODS
- EQUIPMENT AND PROPERTY
    - AN ALTERNATE PRODUCT PROPOSED SHALL MEET SAME STANDARDS AS PRODUCT SPECIFIED BUT SHALL BE CONSIDERED ACCEPTABLE ONLY IF APPROVED PRIOR TO INSTALLATION BY ENGINEER. SUCH APPROVAL WILL NOT BE UNREASONABLY WITHHELD.
    - SPECIFIED PRODUCTS PROVIDED BY THIS CONTRACTOR SHALL BE NEW AND CAPABLE OF PROPER OPERATION. UNSPECIFIED PRODUCTS PROVIDED SHALL BE OF QUALITY BEST SUITED TO THEIR PURPOSE, CSA OR LOCAL INSPECTION AUTHORITY APPROVED AND CAPABLE OF PROPER OPERATION.
    - REUSE EXISTING PRODUCTS WHICH MEET SPECIFICATIONS WHEREVER PRACTICABLE.
    - CLEAN VISIBLE PORTIONS OF ALL DEVICES AND COVER PLATES AS RECOMMENDED BY MANUFACTURER TO RESTORE FACTORY FINISH. PROTECT WORK AND OWNER'S PROPERTY FROM DAMAGE THAT MAY ARISE AS A RESULT OF THIS CONTRACTOR'S PERFORMANCE OF WORK. PROMPTLY MAKE GOOD ANY DAMAGES TO WORK AND OWNER'S PROPERTY ARISING FROM THIS CONTRACTOR'S PERFORMANCE OF WORK.
    - ARRANGE DELIVERIES AND STORAGE WITH OWNER AND AUTHORITIES HAVING JURISDICTION OVER ALL CLEARLY NOTED AND VERIFIED MATERIALS FROM ABUSE, DAMAGE AND ENVIRONMENTAL CONDITIONS WHICH THEY ARE NOT INTENDED TO WITHSTAND, NOTWITHSTANDING FOREWARNINGS FOLLOW MANUFACTURER'S RECOMMENDATIONS.
  - WIRING METHODS
    - FOR POWER WIRING, MAINTAIN PHASE SEQUENCE AND COLOR CODING THROUGHOUT, COLOR CODING TO CSA C22.1.
    - LOCATE, DIMENSION AND MAKE ELECTRICAL SERVICES OPENINGS, PROVIDE NECESSARY SLEEVES, ESCUTCHEONS AND COVERS.
    - DRILL AND PROVIDE ANCHORS AS REQUIRED FOR EXPANSION BOLTS, HANGER RODS, BRACKETS AND SUPPORTS.
  - TESTING
    - MEGGER CIRCUITS UP TO 350V WITH A 500V INSTRUMENT.
    - MEGGER CIRCUITS BETWEEN 350V TO 600V WITH A 1000V INSTRUMENT.
    - CHECK RESISTANCE TO GROUND BEFORE ENERGIZING ANY PART OF TEST WORK.
    - TEST ALL LUMINAIRES, CONTROLS, CIRCUIT BREAKERS, AND EMERGENCY LIGHTING UNIT EQUIPMENT FOR CORRECT OPERATION AND ABSENCE OF SHORTS OR GROUNDINGS.
    - PUT EQUIPMENT AND SYSTEMS IN SERVICE AS MAY BE REQUESTED BY ENGINEER FOR TRIAL USE PROVIDED NO HAZARD OR DAMAGE WILL RESULT NOR GUARANTEE VOID.
    - MEASURE PHASE VOLTAGES AT LOADS AND ADJUST TRANSFORMER TAPS TO ACHIEVE A LOAD VOLTAGE OF 115-120V.
  - CONDUIT AND FITTINGS
    - WHERE NEW FEEDERS ARE REQUIRED, EMT CONDUIT WITH STEEL SET-SCREW CONNECTOR SHALL BE USED THROUGHOUT UNLESS NOTED OTHERWISE.
    - ALL EMPT CONDUITS SHALL BE COMPLETE WITH PULL CORD.
    - SUPPORT ALL BOXES INDEPENDENTLY OF CONNECTING CONDUITS.
    - DO NOT USE SUPPORTS OR EQUIPMENT INSTALLED FOR OTHER TRADES FOR CONDUIT OR CABLE SUPPORT INSTALLED WITH PERMISSION OF OTHER TRADES AND APPROVAL OF ENGINEER.
    - DO NOT USE WIRE LASHING OR PERFORATED STRAPPING TO SUPPORT OR SECURE RACEWAYS (OR CABLES).
    - PROVIDE ADEQUATE SUPPORT FOR RACEWAYS (AND CABLES) DROPPED VERTICALLY TO EQUIPMENT, WHERE THERE IS NO WALL SUPPORT.
    - FASTEN EXPOSED CONDUIT (OR CABLES) TO BUILDING CONSTRUCTION OR SUPPORT SYSTEM USING ONE OR TWO HOLE STEEL STRAPS.
    - INSTALL CONNECTORS ON SURFACE CONDUITS, SO THAT SCREW HEADS DO NOT POSE A DANGER TO OCCUPANTS.

## LAMP AND BALLAST SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION	VOLTAGE	MOUNTING	LAMP/SOURCE	NOTES
A19	SYLVANIA LAMP #LED9W A19-DIM-835-G5	SCREW-IN A19 STYLE LED REPLACEMENT LAMP ALLOWS FOR USE FROM EXISTING LINE VOLTAGE, DIMMABLE TO 10%, 360 DEGREE ILLUMINATION, MINIMUM 80CRI, RATED LIFE OF 15,000 HRS.	120	INSTALL INTO EXISTING MEDIUM BASE SOCKET	9W 800 LUMENS 3500K	-
1321A	SYLVANIA LAMP #LED10T8 L36/FC/830/SUB/09	2X18-3" GLASS LED TUBE AND NORMAL BALLAST FACTOR INSTANT START ELECTRONIC BALLAST, <10% THD, 5 YEAR MANUFACTURER'S WARRANTY.	120	INSTALL IN EXISTING LUMINAIRE	10W 1450 LUMENS 3000K L70/50,000 HRS	1,2,4
1411 (1411B)	SYLVANIA LAMP #LED10T8 L48/DIM/835/SUB/08	1X18-4" GLASS LED TUBE AND NORMAL BALLAST FACTOR INSTANT START ELECTRONIC BALLAST, <10% THD, 5 YEAR MANUFACTURER'S WARRANTY.	120	INSTALL IN EXISTING LUMINAIRE	1600 LUMENS 3500K L70/50,000 HRS	1,2,5
1421 (1421B)	SYLVANIA LAMP #LED10T8 L48/DIM/835/SUB/08	2X18-4" GLASS LED TUBE AND NORMAL BALLAST FACTOR INSTANT START ELECTRONIC BALLAST, <10% THD, 5 YEAR MANUFACTURER'S WARRANTY.	120	INSTALL IN EXISTING LUMINAIRE	10W 1600 LUMENS (PER LAMP) 3500K L70/50,000 HRS	1,2,5
2421 (2421A)	SYLVANIA LAMP #LED10T8 L48/DIM/835/SUB/08	2X18-4" GLASS LED TUBES AND NORMAL BALLAST FACTOR INSTANT START ELECTRONIC BALLAST, <10% THD, 5 YEAR MANUFACTURER'S WARRANTY.	120	INSTALL IN EXISTING LUMINAIRE	1600 LUMENS (PER LAMP) 3500K L70/50,000 HRS	1,2,4
1821TB	SYLVANIA LAMP #LED10T8 L48/DIM/840/SUB/08	2X18-4" GLASS LED TUBES AND NORMAL BALLAST FACTOR INSTANT START ELECTRONIC BALLAST, <10% THD, 5 YEAR MANUFACTURER'S WARRANTY.	120	INSTALL IN EXISTING LUMINAIRE	10W 1600 LUMENS (PER LAMP) 4000K L70/50,000 HRS	1,2,5
HDI	SYLVANIA LAMP #LED36HDI01A/UNV830/MOG	SCREW-IN HDI STYLE LED REPLACEMENT LAMP COMPLETE WITH DRIVER TO BY-PASS EXISTING BALLAST FOR A COMPLETE WORKING SYSTEM, 360DEGREE OMNI DIRECTIONAL DESIGN, RATED L70/50,000 HRS.	120	INSTALL IN EXISTING LUMINAIRE	85W 4900 LUMENS 3000K 80 CRI	1,3

- NOTES:**
- VERIFY EXISTING VOLTAGE PRIOR TO SHOP DRAWING SUBMITTAL.
  - SUPPLY AND INSTALL NEW MEDIUM G13 BI-PIN LOW PROFILE, SLIDE-ON, TURN-TYPE, SHUNTED, QUICK CONNECT STANDARD FLUORESCENT LAMP HOLDERS, LEVITON #23351 OR APPROVED EQUAL.
  - VERIFY EXISTING BASE TYPE PRIOR TO ORDERING.
  - SUFFIX 'A' DENOTES 300K LAMPS, IE: TYPE 1321A, 2421A.
  - SUFFIX 'B' DENOTES 400K LAMPS, IE: TYPE 1411B, 1421B, 1821TB.

### 4. WIRE AND CABLE

- ALL WIRING SHALL BE RUN IN CONDUIT CONCEALED IN FINISHED AREAS AND SHALL BE RUN PARALLEL TO BUILDING LINES, NO HORIZONTAL CONDUITS SHALL BE RUN IN WALLS.
- ALL EXPOSED WIRING SHALL BE RUN PARALLEL TO BUILDING LINES (SERVICE AREAS ONLY).
- ALL EXPOSED WIRING ON FINISHED DRYWALL SHALL BE RUN IN NON-METALLIC RACEWAY (WIREMOLD OR APPROVED EQUAL).
- WRING:
  - ARMORED CABLE (BX) SHALL NOT BE USED.
  - USE FLEXIBLE CONDUIT C/W ANTI-SHORT BUSINGS FOR LUMINAIRE DROPS IN T-BAR CEILINGS, MECHANICAL EQUIPMENT AND IN WALLS WHERE CONDUIT IS NOT POSSIBLE.
  - RIBBO IN CONDUIT, C/W STEEL SET-SCREW CONNECTORS AND COUPLINGS.
  - CONDUCTORS: #12 RW90, 600V, CU, MINIMUM, IN EMT CONDUIT.
- ASSURE THAT ALL CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP:
  - BRANCH CIRCUITS - MAX. 2%
  - PANEL FEEDERS - MAX. 2%
  - DISTRIBUTION - MAX. 1%
- ALL SOLID COPPER CONDUCTORS WITH THERMOPLASTIC INSULATION (TYPE RW90, 600V) BRANCH WIRING SHALL BE MINIMUM #12 AWG (MAXIMUM 70' [21.3m]), #10 AWG (MAXIMUM 120' [36.6m]); FOR RUNS EXCEEDING 120' [36.6m] VOLTAGE DROP SHALL BE CALCULATED AT THE MAXIMUM OF 2% #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED COPPER. USE CONNECTORS, CLAMPS AND SUPPORTS TO SUIT.

### 5. OUTLET, PULL & JUNCTION BOXES

- PROVIDE ELECTRO-GALVANIZED STEEL SINGLE OR MULTIPLE GANG BOXES FOR FLUSH INSTALLATION FOR ALL DEVICES AS INDICATED. BOXES SHALL BE SCHEDULED PRIOR TO INSTALLATION BY ENGINEER AND MEET THE CANADIAN ELECTRICAL CODE REQUIREMENTS. EQUIP ALL BOXES WITH EXTENSION AND TILE RINGS AS REQUIRED.
- PROVIDE 4(100mm) SQUARE OR OCTAGONAL OUTLET BOXES FOR FLUSH LIGHTING FIXTURES.
- PROVIDE WELDED STEEL JUNCTION/PULL BOXES WITH HINGED COVERS FOR SERVICE MOUNTING. BOXES REQUIRED TO FACILITATE CONDUCTOR INSTALLATION, GENERALLY SUCH BOXES WILL BE LOCATED SO AS NOT TO EXCEED 100' (30.5m) OF CONDUIT RUN AND 2-90 DEGREE BENDS. BETWEEN PULL BOXES PROVIDE ADDITIONAL JUNCTION/PULL BOXES AS REQUIRED. ENSURE ALL JUNCTION/PULL BOXES ARE ACCESSIBLE WHEN ALL WORK IS COMPLETE.
- SUPPORT ALL BOXES INDEPENDENTLY OF CONNECTING CONDUITS.
- WIRING DEVICES
  - EQUIPMENT MOUNTING HEIGHT IS FROM FINISHED FLOOR TO EQUIPMENT CENTERLINE UNLESS SPECIFIED OR INDICATED OTHERWISE.
  - IF EQUIPMENT MOUNTING HEIGHT IS NOT INDICATED, VERIFY WITH ENGINEER BEFORE PROCEEDING WITH INSTALLATION.
- INSTALL ELECTRICAL EQUIPMENT AT FOLLOWING HEIGHTS UNLESS INDICATED OTHERWISE:
  - LOCAL SWITCHES: MATCH EXISTING
  - WALL MOUNTED EXIT LIGHTS: 98" (2450mm), 12" (300mm) ABOVE DOOR FRAME, 9" (220mm) G/M
  - WALL MOUNTED OCCUPANCY SENSORS: 98" (2450mm)
- SWITCHES: TOGGLE TYPE 15A & 20A, 347V OR 120V AS INDICATED, SINGLE POLE, 3-WAY MANUALLY OPERATED SPECIFICATION GRADE AS INDICATED. COLOR AND TYPE TO MATCH EXISTING.
- ACCEPTABLE SWITCH MANUFACTURERS: COOPER, BRYANT, HUBBELL, LEVITON, PASS AND SENOUR.
- ACCEPTABLE SWITCH MANUFACTURERS: SENSORSWITCH, WAITSTOPPER, LEVITON, HUBBELL.
- PROVIDE COVER PLATES FROM ONE MANUFACTURER FOR EACH TYPE OR ASSEMBLY OF OUTLETS THROUGHOUT PROJECT. OPENINGS TO SUIT TYPE AND GANGING OF DEVICES, COLOR AND STYLE TO MATCH EXISTING.
- SHEET STEEL UTILITY BOX COVERS FOR WIRING DEVICES INSTALLED IN SURFACE-MOUNTED UTILITY BOXES ("S" TYPE).
- THERMOPLASTIC COVER PLATES FOR WIRING DEVICES MOUNTED IN A FLUSH-MOUNTED OUTLET BOX. COLOR: TO MATCH DEVICE.
- PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY FOR EXPOSED RUNS SHALL BE GROUPED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE SECTION 10 AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION.
- WIRING DEVICES IN LEGEND ARE INTENDED TO SET A STANDARD BELOW WHICH EQUIPMENT WILL NOT BE ACCEPTED.
- MOUNTING HEIGHTS TO MATCH EXISTING AREAS.
- LOCATE NEW LIGHT SWITCHES AS INDICATED. VERIFY EXACT LOCATIONS WITH OWNER PRIOR TO ROUGHING-IN.

### 6. GROUNDING

- THE ENTIRE ELECTRICAL SYSTEM, AS PERTAINS TO THIS INSTALLATION, SHALL BE GROUNDED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE SECTION 10 AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION.
- MAKE GROUNDING CONNECTIONS IN RADIAL CONFIGURATION ONLY, WITH CABLES TERMINATING AT SINGLE GROUNDING POINT. AVOID LOOP CONNECTIONS.
- ALL METAL PIPING SUCH AS, BUT NOT LIMITED TO, WATER, SEWAGE AND GAS, SHALL BE BONDED WITH MINIMUM #6 AWG TO THE MAIN SYSTEM GROUND.

### 8. PANELBOARDS

- UPDATE REVISED PANEL DIRECTORIES AT END OF CONSTRUCTION WITH NEW TYPE WRITTEN DIRECTORIES.
- ALL CIRCUITS WHICH BECOME REDUNDANT BY THIS WORK SHALL BE MARKED "SPARE".

### 9. LIGHTING (SEE LUMINAIRE SCHEDULE AND LEGEND)

- PROVIDE LUMINAIRES AS INDICATED ON THE LUMINAIRE SCHEDULE AND/OR AS SPECIFIED UNDER THIS SECTION. THESE SHALL BE COMPLETE WITH ALL NECESSARY PLASTER FRAMES, HANGERS, DRIVERS, LED BOARDS, LUMEN OUTPUT, COLOUR TEMPERATURE, CRI, LAMPS, BALLASTS, LOUVERS, REFLECTORS, CANOPIES, SUPPORTS, BRACKETS, AND REQUIRED HARDWARE FOR A COMPLETE AND FINISHED INSTALLATION. LUMINAIRES IN SCHEDULE AND LEGEND ARE INTENDED TO SET A STANDARD BELOW WHICH EQUIPMENT WILL NOT BE ACCEPTED.
- CONTRACTOR SHALL INCLUDE IN HIS TENDER, THE LUMINAIRE

**APPENDIX B – FORM OF TENDER**

**TENDER No. 2023-082301T  
FIRE STATION #1, 5, & 7 LIGHTING RETROFIT**

**FORM OF TENDER**

**2023-082301T  
FIRE STATION #1, 5, & 7 LIGHTING RETROFIT**

The undersigned bidder has carefully examined the specifications and scope of work, and also visited the premises to become familiar with the conditions, character and extent of work.

The undersigned bidder has determined the quality and quantity of labour, materials and equipment required, and has the capability to comply with the terms and conditions herein described.

The undersigned bidder further agrees to provide all necessary equipment, tools, labour and materials which are necessary to complete the work in accordance with the contract and agrees to accept, therefore, in payment in full, in accordance with the terms, conditions, specifications, and drawings, the sum of:

\$ \_\_\_\_\_  
*Total Cost for all 3 Locations (All Taxes Extra)*

*Total for Fire Station #1:* \$ \_\_\_\_\_  
*All Taxes Extra*

*Total for Fire Station #5:* \$ \_\_\_\_\_  
*All Taxes Extra*

*Total for Fire Station #7:* \$ \_\_\_\_\_  
*All Taxes Extra*

\*Pricing is to be bid in Canadian Funds and FOB Saint John, NB prepaid. The tender pricing shall include all installation wages, fringe benefits, insurance, transportation, delivery, duty, working tools, equipment costs, and any other charges incurred in order to provide required materials and/or services.

<b>COMPANY:</b>	<b>SIGNATURE:</b> _____
<b>E-MAIL:</b>	<b>NAME:</b> _____ <b>(print)</b>
<b>Date:</b>	<b>Tel #</b> _____ <b>Fax #</b> _____
<b>H.S.T. Reg.#</b>	<b>Remarks:</b>

**APPENDIX C – FORM OF AGREEMENT**

**TENDER No. 2023-082301T  
FIRE STATION #1, 5, & 7 LIGHTING RETROFIT**

**AGREEMENT BETWEEN OWNER AND CONTRACTOR**

THIS AGREEMENT made in triplicate between **THE CITY OF SAINT JOHN** herein (and in the Specifications) called the "Owner" or the "City"

AND

\_\_\_\_\_ herein (and in the Specifications) called the "Contractor".

WITNESSETH: That the Owner and the Contractor agree as follows:

- (a) The Contractor shall provide all the materials and perform all the work shown on the drawings and described in the Contract Specifications titled:

**Contract No:** 2023-082301T

**Title:** Fire Station #1, 5, & 7 Lighting Retrofit

- (b) The Contractor shall do and fulfill everything indicated by this Agreement; and
- (c) The Contractor shall Substantially Complete the Work no later than NA.

**CONTRACT DOCUMENTS**

**General Specifications**

General Specifications, City of Saint John, New Brunswick, with all applicable divisions, as updated and as listed in the Table of Contents of the Contract Specifications.

**Contract Specifications**

Contract specifications for

**Contract No:** 2023-082301T

**Title:** Fire Station #1, 5, & 7 Lighting Retrofit

City of Saint John, New Brunswick,

**Drawings**

- E-1 Fire Station #1, 5, 7 - Site Plans, Legend and Notes
- E-2 Fire Station #1 - 47 Leinster St. Ground Floor and Second Floor – Lighting
- E-3 Fire Station #5 - 35 Adelaide St. Ground Floor and Second Floor – Lighting
- E-4 Fire Station #7 - 41 Manchester Ave. Ground Floor and Second Floor – Lighting
- E-5 Lighting Schedules and Specifications

**ADDENDA**

The Contractor agrees that he has received addenda     to     inclusive, and that the tender price includes the provisions set out in the addenda.

**CONTRACT PRICE**

The Owner shall pay to the Contractor, in lawful money of Canada for the performance of the Contract, the amounts determined for each of the items of work completed at the unit prices as listed in the Schedule of Quantities and Unit Prices, plus applicable taxes, submitted with the tender, which is to be attached with this Agreement, for the total tender price of:

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If the Engineer orders in writing the performance of any work not covered by the drawings or included in the specifications that cannot be classified as coming under any of the contract units and for which a unit price can be agreed upon, then such additional work shall be paid for as described under the General Administration of Contract, Division 6.

**PAYMENT**

The Owner shall pay on account of thereof upon the Engineer's Certificate, as invoiced by the Contractor and approved by the Engineer, in the manner described in the Specifications.

**AGREEMENT DOCUMENTS**

The General Administration of Contract, Division 6 and the aforesaid Specifications and Drawings are all to be read into and form part of this Agreement and the whole shall constitute the Contract between the parties and it shall inure to the benefit of and be binding upon them and their successors, executors, administrators, and subject to the General Administration of Contract, their assigns.



**AFFIDAVIT OF CORPORATE EXECUTION**

CANADA

PROVINCE OF NEW BRUNSWICK

CITY OF SAINT JOHN

I, \_\_\_\_\_, of the \_\_\_\_\_  
in the County of \_\_\_\_\_, and Province of New Brunswick

MAKE OATH AND SAY:

- (1) THAT I am the \_\_\_\_\_ of \_\_\_\_\_, and \_\_\_\_\_ is the \_\_\_\_\_ of the said Company, as such I am/we are duly authorized officer(s) of the said Company to execute the foregoing instrument.
- (2) THAT the signature \_\_\_\_\_ subscribed to the within instrument is my signature and in my own proper handwriting and that the signature \_\_\_\_\_ so subscribed is his signature made thereto by him in my presence.
- (3) THAT the Seal affixed to the said instrument purporting to be the Corporate Seal of the said \_\_\_\_\_ is the Corporate Seal of the said Company and was affixed to the said instrument by me and by order of the Board of Directors of the Company.

SWORN TO BEFORE ME at the \_\_\_\_\_ )

)

of \_\_\_\_\_ )

)

in the Province of \_\_\_\_\_ )

)

this \_\_\_\_ day of \_\_\_\_\_ A.D., \_\_\_\_.

)

\_\_\_\_\_ )

COMMISSIONER OF OATHS )

CONTRACTOR

)

Note: The blank spaces are to be filled in with the name or names of the signing officer(s).