



MET ENERGY SYSTEMS
Consulting Engineering
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Tel: (705) 942-3344
www.meteng.on.ca

TECHNICAL SPECIFICATIONS

Blind River Fire Department Generator Replacement

241 CAUSLEY STREET
BLIND RIVER, ON.

Client:



THE CORPORATION OF THE TOWN OF BLIND RIVER
11 Hudson Street
Blind River, ON

TENDER CLOSING: 2:00 p.m. local time December 4th, 2025

At Blind River Municipal Office
11 Hudson Street
Blind River, ON

SITE VISIT: NON-MANDATORY - Tuesday, November 25th, 2025 at 11:00 am.
Meet at Front Entrance of the Fire Hall

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PART 1 - GENERAL

1.1 INVITATION

- .1 Tender Call
Tender Submissions (Primary):. Offers signed under seal, executed, and dated will be received on or before:

**14:00:00 (2:00:00 p.m.) local time on
Thursday, December 4, 2025**

Offers submitted after above time will be returned to bidder unopened.

Tenders shall be submitted to:

**The Town of Blind River
Attention: Katie Scott, CAO
11 Hudson Street
Blind River, ON, P0R 1B0**

Tender envelopes to be clearly marked with the following title:

Fire Hall Generator Project

Include name and address of Tenderer and project name and number on face of envelope.

Or

**Digital Submission to:
info@blindriver.ca
Subject Line: Fire Hall Generator Project**

*Bid Security shall be hand delivered to Blind River Municipal Office before tender closing

Tender opening:
**There will be a closed tender opening at 14:15:00
(2:15pm) local time on the date of closing.**

Where reference to Owner is made in the Contract Documents it shall mean:

Town of Blind River

Where reference to Consultant, Architect or Engineer is made in the Contract Documents it shall mean:

MET Energy Systems

- .2 List of Bidders
All Bidders are asked to register with MET Energy Systems.

1.2 CURRENT STATE OF
EMERGENCY AND THE TENDER

- .1 The within Tender is subject to the provisions of *Ontario Regulation 119/20* made under the *Emergency Management and Civil Protection Act*,

R.S.O. 1990, c.E.9 as amended (Order under Sub-section 7.0.2(4) – Closure of Places of Non-Essential Businesses). The within Tender cannot be awarded until the repeal of Ontario Regulation 119/20 made under the *Emergency Management and Civil Protection Act*, R.S.O. 1990, c.E.9, or any regulation which supersedes or replaces *Ontario Regulation 119/20*. The Owner retains in its absolute and unfettered discretion the right to:

- (a) refuse to award the Tender to any Bidder;
- (b) withdraw the Tender at any time without providing any reason whatsoever;
- (c) Re-Tender the project;
- (d) disregard and not accept any Tender;
- (e) award the Tender on a conditional basis that work may commence upon the repeal of the aforesaid Regulation.

.2 The Bidder, by submitting a Bid pursuant to this Tender, agrees that Owner maintains the complete and unfettered discretion to deal with any Tender on the above basis and herein releases the Owner from any and all claims that it may have as a consequence of or arising from this Tender howsoever arising.

1.3 FUTURE STATE OF EMERGENCY AND THE CONTRACT

.1 The Parties agree that having regard to the provisions of *Ontario Regulation 199/20* made under the *Emergency Management and Civil Protection Act*, R.S.O. 1990, c.E.9 as amended (Order under Sub-section 7.0.2(4) – Closure of Places of Non-Essential Businesses), that the Owner and Bidder have no obligation whatsoever to perform the within Contract until such times as the aforementioned Regulation or any Regulation which supersedes and replaces *Ontario Regulation 119/20* is rescinded and there is no prohibition on Construction of lands and premises owned by the Owner. The Owner maintains the absolute and sole discretion to withdraw or terminate this Contract at any time, without any penalty or damages whatsoever. The Owner shall provide written notice to the Contractor in the event that it intends to terminate and re-tender the Contract.

.2 The Contractor herein releases and waives any claim that it has of whatever nature and kind whatsoever, known or unknown, as against the Owner, its employees, agents and Consultants, howsoever arising as a consequence of this Tender, Tender process, or Contract herein.

1.4 SITE WALKTHROUGH

.1 **There will be a non- mandatory site visit on Tuesday November 25th, 2025 at 11:00 am.**

.2 The purpose of this *Site Walkthrough* is to familiarize general Contractors, Sub-Contractors and Sub-Trades with existing Site and Building conditions. The Project Site shall be accepted by the Contractor in its condition at time of Tender.

.3 The Contractor, by acknowledging the Addendum in Tender Forms, will be held to have carefully examined the *Site*; including drawings and specifications, etc., the location of all services which may have to be protected, removed or relocated. The Contractor shall accept responsibility for

review and distribution of same information to all Sub-Contractors and Sub-Trades.

.4 Questions that may arise from this review shall be submitted & responded to according to Query/Addenda protocols below. Additional *Site Information* may be requested, and responses shall be circulated via addenda.

.5 The Contractor shall accept sole responsibility for any error or neglect on their part in this respect. Submission of Tender shall be deemed confirmation that tenderer has reviewed all *Site Information* and is thoroughly conversant with existing conditions as can be observed at the date of the tender close.

.6 No claims for extra payment will be considered for work, expense or difficulties encountered due to conditions of the site or building which were visible or reasonably inferable from the Site Walkthrough.

.7 Should General Contractors and Sub-trades wish to visit the site in addition to the mandatory site meeting date, they may request to schedule additional access through the following contact:

Name: Matt Rajala

Phone: (705) 942-3344

Email: mrajala@meteng.on.ca

1.5 INTENT

.1 Intent of this Tender call is to obtain an offer to perform work to complete project known as:

**Blind River Fire Department
Generator Replacement
241 Causley Street, Blind River, ON**

.2 Consultants Project Number: **25M48**

.3 The Consultants Project Number and Project Name must appear as a header to **ALL** correspondence related to the project.

.4 Tenders are called for a Stipulated Price contract, in accordance with Contract Documents

.5 Perform Work within time stated in Section 00100 Contract Time and as further described and detailed in the Contract Documents

.6 Initiate work within five (5) days of receipt of notice of contract award, or otherwise known as the "Letter of Intent".

.7 Work under this contract shall commence immediately upon award of contract and shall continue to completion without interruption.

1.6 CONTRACT/BID DOCUMENTS

.1 Agreement Form

.2 Definitions

Contract Documents: Defined in CCDC2 – 2020 Edition, Definitions.

Tender Documents: Contract Documents, including Drawings and Specifications, supplemented with Instructions to Tenders, Tender Form, and Tender Supplementary Forms identified herein.

Tender, Offer, or Bidding: Act of submitting an offer under seal.

Tender Price: Monetary sum identified in Tender Form as an offer to perform work.

.3 Availability

Tender Documents may be obtained thru the Consultant. Tender Documents are made available only for purpose of obtaining offers for this project. Their use does not confer license or grant for other purposes

.4 Examination

Upon receipt of Tender Documents verify that documents are complete. Review tables of contents and drawing lists and ensure that all documents are received.

Immediately notify Consultant upon finding discrepancies or omissions in Tender Documents.

Contractor shall be held to have carefully examined all drawings, specifications, schedules, and **Site Information** for all trade-work and to be familiar with all conditions, requirements and limitations pertaining to the work.

Examine the specifications and drawings thoroughly. Report to Consultant all ambiguities, discrepancies, omissions, errors, departures from Building By-Laws, or from good practice, discovered during examination as early in the tender period as possible to allow clarification by addenda to be issued to all bidders. No claims for extra payment will be considered for work, expense or difficulties which are reasonably inferable from an examination of the documents prior to the closing of tenders.

The drawings and specifications complement each other and neither is to be considered alone. Hence, any item omitted in one, but mentioned or implied in the other, must be provided. Bidders finding discrepancies or omissions in the drawings or specifications shall at once notify the Consultant who shall send written instructions to all bidders. Bidders may, during the tender period, be advised by addenda of any additions, alterations or deletions to the specifications and drawings. All such changes shall be covered by the tender and become part of the contract documents.

If any person submitting a bid on this project is in doubt as to the true meaning and intent of any part of the specifications or other documents, he must request an interpretation from the Consultant. If such interpretation is not requested, the bids will be presumed to be based on the interpretation or directions that may be subsequently given by the Consultant after award of the Contract, in accordance with the provisions of the Contract.

.5 Queries/Addenda

Questions pertaining to the content of the contract documents, scope of work, etc. shall be directed to the design Consultants. Queries may be directed to the Consultant responsible for the discipline as indicated in the Specification Table of Contents or Drawing Sheet title-block, but a copy must be sent to the Prime Consultant.

- .1 Prime Consultant: MET Energy Systems
Project Manager: **Matthew Rajala**
Email: mrajala@meteng.on.ca

Addenda may be issued during tendering period. All addenda become part of Contract Documents. Include costs in Tender Price.

All Queries, Requests for Clarification and Requests for Approved Alternates by bidders must be provided in writing; verbal queries will not be accepted.

- .2 Email format is preferred for all inquiries

- .3 Include project Number and Name in email subject.

All Queries, Requests for Clarification and Requests for Approved Alternates by bidders must be received at the office of the Consultant, not less than **three (3) business days (Mon-Fri)** before time set for receipt of Tenders.

Verbal answers by the Owner or Consultant will not be binding unless confirmed by written addenda

Reply will be in form of written addendum, a copy of which will be forwarded to registered bidders and construction associations no later than **two (2) business days (Mon-Fri)** before receipt of Tenders.

- .6 Product/System Options

Where Tender Documents stipulate a particular product, substitutions will be considered by Consultant up to seven (7) days before receipt of Tenders.

When a request to substitute a product is made, Consultant may approve substitution and will issue an Addendum to known bidders.

Submission shall include sufficient information to enable Consultant to compare proposed alternate to specified product and determine acceptability of such products.

Incomplete or illegible proposals may be summarily rejected. The consultant reserves the right to reject, without detailed or any explanation, any such request for approval.

In submission of substitutions to products specified, Bidders shall include in their Tender, any and all changes required in work to accommodate such substitutions. It shall be the sole responsibility of the Tenderer to ensure that the substituted material or equipment is fully compatible with available space, location, method of installation, work of other trades, and the like. A later claim by Bidder for an addition to contract price because of changes in work necessitated by use of substitutions shall not be considered. The Consultant does not undertake any obligation to revise the design, dimensions or structure to accommodate a proposed substitution. Requests for approvals of alternate or substitute materials or

equipment made after the Tender Closing Date will not be considered unless made in writing to the Consultant within fifteen (15) days of the Contract Date and then will be considered only for such cause as a saving in cost to Owner or unavailability of specified material.

1.7 SUB-DIVISION OF WORK

.1 These Specifications have been divided into Divisions and Sections of work according to the accepted standards of Construction Specifications Canada (CSC) for the Construction Specifications Institute (CSI)

.2 The Contractor shall have sole responsibility for determination of subdivision of the material, labour and services necessary to complete the project to the specified standards of the proposed Contract Documents

.3 The Contractor shall be responsible for distributing all sections and divisions of the work to the Subcontractors bidding the work during tender phase and to the Subcontractors which are retained to perform the work during construction. The Contractor shall also be responsible to determine that Subcontractors submitting pricing, have not been disqualified from performing work on the Owner's premises or buildings.

.4 The Contractor will ensure that all of their Subcontractors are completely familiar with all the requirements of the Contract Documents which may affect their price.

.5 Main Divisions as listed in the table of contents are intended to be bid directly to the General Contractor. If major divisions are carried under another major division's contract, mark-up will only be allowed once.

1.8 QUALIFICATIONS

.1 Firms or persons submitting tenders shall be actually engaged in the line of work required by the proposed Contract Documents and shall be able to refer to work of similar nature completed by them.

.2 It is the bidder's responsibility to closely review the qualifications to confirm that they and their Subcontractors can readily demonstrate their ability to meet or exceed the listed qualifications. Any questions or concerns with the qualifications or evaluation process must be identified to the Consultant ten (10) days prior to the tender close.

.3 The Owner has identified a number of Contractor Qualifications that will be used in the Tender Evaluation process to determine the best value for the Owner's project. Bidders are not required to submit qualifications with their tender submissions but may be requested to submit this information as supplemental to inform the evaluation process. The Owner reserves the right to request additional information as required to evaluate the Contractor against these qualifications. The Owner identified qualifications are as noted below:

General Intention: The Owner wishes to obtain a Contractor whom is capable and willing to work continuously throughout the year, including day, evening and weekend shifts as is necessary to complete the work specified within these contract documents. Schedule is to be coordinated with the Owner and according to the schedule requirements of section 1.10 Contract Time below.

Previous Construction Experience: The Contractor must be able to demonstrate successful completion of at least three (3) previous construction projects of similar size, budget and/or construction type. At least one of the projects must be a renovation or addition to an occupied facility. *If requested*, submit to the Consultant the relevant project experience for review. For each project include: Project title, year completed, project budget, brief project description, Client and Consultants Contact information. Specific experience in installing generator systems is required.

Superintendents Experience: The Contractor must be able to demonstrate that the proposed Superintendent has at least ten (10) years' experience in the Construction Industry, has relevant experience as the full time Superintendent on similar Construction projects, specifically managing electrical construction projects. *If requested*, submit to the Consultant the Superintendents Resume inclusive of education, past project experience and at least two (2) references that can speak to the Superintendents previous project experience and character.

Contractor References: The Contractor must be able to provide References (a mix of Client and Consultant) that can validate the Contractors previous project experience and provide an opinion on the Contractors quality of work, ability to coordinate with trades, ability to maintain a project schedule, fairness in addressing changes and unforeseen conditions that arise during construction. *If requested*, submit to the Consultant at least three (3) References complete with Reference Name, Company, Title, Phone Number, Email Address and Project Title for which they are providing a reference on.

Safety: The Owner would like to ensure that the successful Contractor understands and their responsibility for health and safety for this project, has comprehensive internal health and safety policies, and is engaging an experienced individual to act as the Health and Safety Coordinator. If requested, submit to the Consultant the Contractors Health and Safety Manual and the Resume for the proposed Health and Safety Coordinator.

Commitment to Schedule: The Owner requires the renovations milestones to be completed prior to Key dates described below. The successful Contractor must demonstrate that they are committed to scheduling and performing the work to achieve this deliverable. The successful Contractor will be required to submit a workplan and construction schedule that demonstrates the above and that will form part of the contract. **The Contractor will submit this information within 5 days after having been requested to do so, at the discretion of the Owner.**

.4 Subcontractors

The Owner reserves the right to reject a proposed Subcontractor for reasonable cause including poor past performance on projects. The Contractor is responsible to determine that a proposed Subcontractor has not been disqualified from performing work on projects. Refer to CCDC2 - 2020 Article GC 3.6/3.7 of General Conditions.

The Owner may request any proposed Subcontractor to provide satisfactory evidence that they have the ability, experience, capital and plant to enable them to execute their portion of the work of the contract

Nothing contained in the Contract Documents shall be interpreted as the Owner having any contractual obligations or relationships to a Subcontractor.

1.9 BID SUBMISSION

.1 Bid Ineligibility

Tenders that are unsigned, improperly completed, improperly signed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may at discretion of Owner, be declared informal and therefore be rejected.

Tenders with Tender Forms and enclosures which are improperly prepared may at discretion of Owner, be declared informal and therefore be rejected.

Tenders that fail to include security deposit, bonding or insurance requirements may at discretion of Owner, be declared informal and therefore be rejected.

Oral, telegraphed, faxed, or telephoned proposals, or modifications to, submitted proposals will not be accepted or considered.

.2 Submissions:

Tenderers shall be solely responsible for delivery of their Tenders in manner and time prescribed.

Submit one copy of executed offer on Tender Forms provided, signed and with corporate seal together with required security in a sealed opaque envelope, clearly identified with Tenderers name, project name and Owner's name on outside.

Fill in all spaces. Monetary items shall be filled in with words and figures.

State in Tender Form, Contractor's name, address and contact information in spaces provided.

Addenda: Acknowledge all Addenda, inserting the number of the final Addenda received, in the proper place on the Tender Form.

State in Tender Form, Tenderer's offer, in the form of a Stipulated Sum, for the labour, material and services required

to complete the Work described in the Contract Documents. Contract Completion Time: State in Bid Form time (in weeks) required to complete the Work to "Total Performance".

Tenderer's will have to declare a construction completion time expressed in "number of weeks" commencing from tender award date and extending to "Total Performance". This time will be incorporated into the formal Agreement and expressed as a date established by adding the completion time to the tender award date.

An abstract of submitted Tenders may be made available to Tenderers following Tender opening. Bidders may request a Debriefing of the Tender results with the Owner upon written request.

.3 Tender Signing

Tender form shall be signed under seal by Tenderer
Sole Proprietorship: Signature of sole proprietor in presence of witness who will also sign. Insert words "Sole Proprietor" under signature. Affix seal
Partnership: Signature of all partners in presence of witness who will also sign. Insert word 'Partner' under each signature. Affix seal to each signature
Limited Company: Signature of duly authorized signing officer(s) in normal signatures. Insert officer's capacity in which signing officer acts, under each signature. Affix corporate seal. If Tender is signed by officials other than President and Secretary of company, or President-Secretary-Treasurer of company, copy of by-law resolution of Board of Directors authorizing them to do so must also be submitted with Tender in Tender envelope.
Joint Venture: Each party of joint venture must execute Tender under respective seals in manner appropriate to such party as described above, similar to requirements of Partnership

1.10 CONTRACT TIME & SCHEDULE

.1 The finalization of the Contractor's approved Construction Phasing Plan, Schedule and Milestones is a critical item to be completed immediately upon Award.

.2 The site will be available for construction on a pre-set date determined by the Owner.

.3 The Tender/Contractor shall declare the amount of time required to complete **all** Work as described in their tender, with the exception of the listed Separate Price Options. This shall be the date of "Total Performance" of the Work as indicated in the Contract Documents.

This shall be expressed in a number of Calendar Weeks, including start and end dates.

.4 This declared completion time may be used by the Owner for the purpose of evaluating "best overall value". For the purpose of tender evaluations "best overall value" can be measured by contemplating the lowest

overall price against the best overall declared completion time.

.5 The declared completion time expressed in “number of weeks” as provided with the tender will be used by the Owner to define the Contract Completion Date in the formal Construction Contract (CCDC 2). This date shall be the number of calendar weeks from the date of the “Letter of Intent”.

.6 If Equipment and/or material delivery delays extend beyond this time, temporary measures are to be implemented by Contractor to ensure operation at Contractor’s Cost.

.7 Substantial completion of all work is anticipated by November 28, 2025.

1.11 BID BOND/AGREEMENT TO BOND

.1 A security deposit in the form of a Bid Bond or Certified Cheque in the amount of **10%(minimum) of tender price** will be required to be submitted with each tender.

Endorse Bid Bond in name of Owner, as obligee, signed and sealed by principal Contractor and surety.

Use the 2020 edition CCDC approved bond forms.

Security deposit will be returned after delivery to Owner of required Performance, and Labour and Materials Payment bond(s) by accepted tenderer.

Certified Cheque of successful bidder will be held for the duration of the Contract.

If no contract is awarded or contractor is unsuccessful, all security deposits will be returned.

.2 An Agreement to Bond or Consent of Surety, must also accompany each tender, stating that surety providing Bid Bond is willing to supply Performance and Labour as well as Materials Payment Bond in the total amount of (50% + 50%) = 100%.

Include cost of bonds in Tender Price

.3 A **50% Performance Bond** and a **50% Labour and Material Payment Bond**, will be required of the successful bidder within 5 days of contract award. Contractor shall include cost of bonds in Tender Price.

.4 In lieu of Bonding or Consent of Surety as stated in 1.11.2 and 1.11.3, a letter of credit or certified cheque for 50% of contract value will be required within 5 days of contract award and will be held by the owner for the duration of the project.

1.12 TENDER FORM REQUIREMENTS

.1 State on Bid Form, time required to complete work. Completion date in Agreement will be stated completion time added to Award date.

.2 Tenderer, in submitting an offer, agrees to complete work by date indicated in Contract Documents, but may propose a revision to contract time with an adjustment to Tender price for approval by Owner.

.3 Owner requires that work of this contract be completed as quickly as possible and therefore, completion dates stated will bear heavily in evaluating the tenders submitted. At the discretion of the Owner, tender may be awarded to tenderer that presents “best value” in terms of best overall cost in relation to

best overall completion time.

.4 The Contractor shall include all government sales taxes, customs duties and excise taxes in the Tender except the Goods and Services Tax (GST). This shall be shown separately on the tender form.

1.13 TENDER SUBMISSION REQUIREMENTS

PRIMARY

.1 The Primary Tender submission must contain all of the following information.

Tender Form: Fill in all spaces, monetary items shall be filled in with words and figures.

Tender Form - List of Sub-trades (Prices not Included)

Security Deposit (Bid Bond) as indicated.

Performance Bond, agreement to provide as prescribed.

Material Labour Payment Bond, agreement to provide as prescribed.

1.14 TENDER SUBMISSION REQUIREMENTS

.1 The Tender submission must also contain all of the following information.

List of Sub-trades (Prices Included)

Separate, Alternate and Identified Prices (if applicable)

1.15 TENDER SUBMISSION REQUIREMENTS

ADJUSTMENTS

.1 Adjustments to the Primary Submissions requirements stated above will not be accepted.

1.16 OFFER ACCEPTANCE / REJECTION

.1 Duration of Offer Acceptance/Rejection

Tenders shall remain open to acceptance and irrevocable for a period of **sixty (60)** days after the Tender closing date. If withdrawn the respective Tenderer shall forfeit his Security Deposit. No telephone calls, facsimiles or telegrams will be considered.

.2 Acceptance of Offer

The Owner reserves the right to award the Contract based on either of the following: Base Tender Price solely, or Base Tender Price and project schedule, based on pricing, budgets and schedule.

The Owner reserves the right to accept or reject any or all offers

The Owner Reserves the right to separate contracts to different electrical contractors.

The Owner reserves the power and right to reject tenders received from parties who cannot show a reasonable acquaintance of the class of work herein specified and shown on the drawings.

.1 Evidence of such competency must be furnished by tenderer when requested.

In the receipt of tenders for the work, no obligation is incurred

by the Owner to accept the lowest or any proposal provided by a tenderer. The Owner reserves the right to refuse any or all tenders for any sub-division of the work or to decline to proceed with all the work if the Owner so determines.

After acceptance by Owner, the Consultant will issue a letter (Letter of Intent) to the successful Tenderer, relating the Owners acceptance of the Tender. This Letter of Intent will form the start date of the Contract. Formal contracts will be prepared for signatures and circulated to required parties by the Consultant.

The Owner reserves the right to request any other additional information they may require to evaluate the submission.

Failure to provide the information requested in a timely manner may result in the tender being disqualified.

Upon acceptance, the successful Tenderer shall provide, within ten (10) business days the following documentation

- .2 Bonding Certificates
- .3 Workplace Safety and Insurance Board Certificate
- .4 Certificate of Insurance (refer to CCDC 2 and the Supplementary Conditions)
- .5 Signed copy of Owners Contractors Procedure Manual
- .6 Copies of Applicable permits
- .7 Other(s) as may be reasonably requested
- .8 Contractor's Health and Safety Policy

.3 Tender Securities

Only after Tender has been accepted by the Owner, the Owner will notify the unsuccessful Tenders that their Tender Securities will be available for pick-up.

1.17 DELETION OF WORK UNDER THE CONTRACT

- .1 The Owner reserves the right to delete any or all work from the contract.

1.18 LOCAL MANPOWER

- .1 The Tenderer is encouraged to utilize as much local manpower as possible for the work of the Contract.

1.19 BUILDING CODES, PERMIT AND SAFETY ACT

- .1 All work is to be carried out in accordance with the latest edition of the Local, Provincial and Federal Construction and Building Codes, By-laws, including the Occupation Health and Safety Act.

- .2 All onsite contractor and sub-contractor employees are required to complete a General Safety indoctrination program. In addition, all contractor and sub-contractors' onsite personnel are required to complete site specific safety training with the Fire Chief. Above noted general and site-specific training shall be included in the base bid.

.3 The Contractor shall include all applicable permits, fees, etc. required by Municipal, City or Provincial Departments covering the work.

- .4 Comply with requirements of Workplace Hazardous Materials Information System (WHIMS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labeling and provision of material and safety data sheets acceptable to Labour Canada and Health and Welfare Canada.

Deliver copies of WHIMS data sheets to Owner on delivery of materials and provide copies in Maintenance Manuals.

PART 2 - PRODUCTS

2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not used.

END OF SECTION

Town of Blind River

Fire Department

Generator Replacement

241 Causley Street, Blind River, ON

Page 1

To: **The Corporation of the Town of Blind River**
 11 Hudson Street
 Blind River, ON

(See Section 00100 - Instruction to Bidders - Article 1.9 for instructions for submitting tenders)

By:
Contractor's Name:

Address: _____

Telephone: _____ Fax: _____

PRICING

The undersigned herein offer to provide all labour, material and services required to complete the work of all trades and agree to enter into a Contract for the completion of:

Blind River Fire Hall
Emergency Generator Replacement
241 Causley Street, Blind River, ON

Contingency Allowance

(To be used at the discretion of the Engineer)

\$ 10,000.00

Cash Allowance

(There are no Cash Allowances)

\$ 0.00

According to all Drawings, Specifications and issued Addendum No.'s

through

Base Tender Total (Including All Allowances)

For the stipulated Lump Sum Price of (Exclusive of HST):

\$ _____

(Written amount)

Harmonized Sales Tax in addition to the base tender amount listed above

\$ _____

ALTERNATE MATERIALS

The following is a list of alternate materials proposed for substitution and the difference to the base tender price. (These substitutions must meet performance criteria of specifications.)

I/We understand that the price(s) submitted in the bid is/are based upon the acceptance of the bid within forty-five (45) days of the bid closing date. In cases where the expiry date of the acceptance period falls on a Saturday, Sunday, or holiday, the time for acceptance shall be extended to the first following business day.

COMPLETION DATE

I/We estimate that the earliest that the Contract could be completed is _____
Weeks from commencement of the Work.

Starting Date: _____ Ending Date: _____

I/We also submit the names of our proposed Sub-Contractors from whom sub-bids were received, and upon which my/our Bid is based. I/We also submit the sub-bid prices for the trades listed.

<u>TRADE</u>	<u>COMPANY</u>	<u>SUB BID PRICE</u>
1		
2		
3		

SIGNATURES AND SEAL

Contractor's Name and Address:

Seal:

Authorized Signatures:

Name:

Title:

Signature:

Name:

Title:

Signature: _____

Witness: _____

Title: _____

Date: _____

End of Section

Town of Blind River**Fire Department****Generator Replacement**

241 Causley Street, Blind River, ON

Page 1

1 Definitions

- 1.1 **Owner** – means the Owner or the Owner's authorized agent or representative as designated to the Contractor in writing, but does not include the consultant.
- 1.2 **Consultant** – means the Engineer, or entity licensed to practice in the territory of the Place of Work. The term Consultant means the Consultant or the Consultant's authorized representative.
- 1.3 **Work** - means the whole of the Works including all labor, materials, products, and services required to be supplied, installed and/or erected by the Contractor under the Contract.
- 1.4 **Material** - means all commodities, articles, and other things required to be furnished under the Contract.
- 1.5 **Materials & Supplies** - means tools, implements, machinery, vehicles, equipment, commodities and all other articles necessary to perform the Work.
- 1.6 **Contract** - means, but shall not necessarily be limited to, the complete Tender Documents including: Instructions to Bidders, General Conditions, Scope of Work, Service Standards, Tender Form and Tender Attachments (as may be required).

2 Assignment of Contract

- 2.1 Owner has the right to refuse any Contractor or Sub-Contractor.
- 2.2 Work shall be performed under one Contract utilizing the Canadian Construction Document CCDC 2, 2020 - Stipulated Price Contract. The contract shall govern the performance of each section of the specifications.
- 2.2 These General Requirements generally specify work and co-ordination that is the responsibility of the General Contractor but are not intended to define the responsibilities between the Contractor and Sub-Contractors. Ensure that Sub-Contractors fully understand the Contract
- 2.3 Notwithstanding paragraph 2.1, no assignment or sub-Contract shall relieve the Contractor from any obligation under the Contract or impose any liability upon Owner to an assignee or Sub-Contractor
- 2.4 Subject to the preceding provisions of this section, the Contract shall ensure to the benefit of and shall be binding upon the successors and assigns of Owner and the Contractor.

3 Interpretation of Contract

- 3.1 Owner/Consultant shall be the interpreter of the Contract and of the obligations of the Contractor thereunder.

4 Conflict of Interest

- 4.1 The Contractor declares that the Contractor has no pecuniary interest in the business of any third party that would cause a conflict of interest or seem to cause a conflict of interest in carrying out the Work. Should such an interest be acquired during the life of the Contract, the Contractor shall declare it in writing immediately to the Consultant.

**Town of Blind River
Fire Department
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- 4.2 The Contractor shall provide competent supervision of its Workers, which Workers will be skilled in the tasks assigned to them. This supervisor will be accessible to Consultant and will receive any order or communication relating to the Work on behalf of the Contractor.

Supervisors and Workers not satisfactory to Owner/Consultant shall be removed from the Work and replaced forthwith.

- 4.3 Any Person involved in the Work will be required to meet the Client Corporation's security clearance criteria.

- 4.4 It is the responsibility of the Contractor in formulating the bid to ascertain the labor conditions existing at the Place of Work with particular reference to union non-union labor and comply with these conditions. The cost of doing so shall be included in the Tender price.

- 4.5 The Contractor will cooperate fully with other Contractors or Workers sent to the site of Work.

5 Protection and Housekeeping

- 5.1 The Contractor shall guard and otherwise protect from damage, the Work, the property of the Owner and property adjacent to the site. The Contractor shall make good all damage resulting from the Contractor's operations or negligence under the Contract at its own expense.

- 5.2 The Contractor shall repair within seventy-two (72) hours any damage caused by the Contractor.

- 5.3 The Contractor will daily, upon completion of the day's Work, clear and clean the Work and its site to the satisfaction of, and in accordance with, any decision of the Facility/Project Manager.

6 Site Conditions

- 6.1 **Before any planning or installation, ALL related divisions shall meet and co-ordinate with General Contractor to determine spacing and routing of all Piping, Ductwork, Conduits, Wiring etc.**

- 6.2 Dedicated on-site parking shall be indicated to the Contractor by the Owner.

- 6.3 Materials pertinent to immediate future use shall be stored on site only. No interference of facility operation will be permitted. Dedicated area will be indicated to contractor by owner prior to commencement of work.

- 6.4 Contractor is solely responsible for all construction aids, hoisting equipment, and all items necessary to complete entire scope of work.

- 6.5 Construction may take place during normal working hours. If construction poses a disturbance "or" safety issue to standard facility operation, work shall take place after normal working hours at no additional expenses.

7 Debris

- 7.1 During construction, the trades shall remove from the project site debris caused by their

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work immediately. No corridors shall be blocked and there shall be no interference with any production at any time. All debris removed shall be at the Contractors expense. No On-Site refuse bins shall be used unless approval received in writing by owner.

- 7.2 The Contractor shall enforce the requirements of this Specification, regulatory authorities and specific requests, which the Prime Consultant may issue.
- 7.3 Bulk containers which the Contractor may provide for assembly of debris shall: be placed in a convenient area not obstructing the Owner's operations, be covered or otherwise protected, be emptied when full but at a time not obstructing the Owner's use of the grounds. Coordinate efforts to remove debris with the Owner.

8 Notice

- 8.1 Provide any notices indicated via mail, and e-mail.

9 Records to be kept by the Contractor

- 9.1 The Contractor shall keep proper accounts and records of the cost of the Work and all expenditures or commitments made by the Contractor including invoices, receipts and vouchers, which shall with two (2) days written notice be open to audit and inspection by Owner or Consultant.

10 Occupational Health and Safety Act

- 10.1 The Contractor shall provide a qualified staff person on site at all times who is knowledgeable in the obligations of the Act and will ensure that the requirements of the Act are fully complied with.
- 10.2 It is specifically drawn to the attention of the Contractor that the Occupational Health and Safety Act provides in addition to other matters that;
- A Constructor shall ensure that, on a project undertaken by the Constructor, that the measures and procedures prescribed by this Act and Regulations, are carried out on this project.
 - Every employer and every Worker performing work on the project complies with the Act and the Regulations and
 - The Health and Safety of Workers on the project is protected.
 - The Contractor shall pay all such assessments as will protect him and the Corporation of the Town of Blind River from claims under the Workplace Safety and Insurance Act.

11 Health and Safety Qualifications

- 11.1 The Successful Contractor shall supply the following documents;
- Workers Safety & Insurance Board CAD rating and Certificate of Clearance.
 - Certificate of Clearance documentation is to remain current throughout the course of the project with updated certificates submitted to the Consultant.
 - Copy of the Signed Contractors Health and Safety Policy with proof of training and listing of programs developed that support the Policy Statement.
 - A copy of Proof of Training for each employee, by a valid first aid instructor to show compliance with Workplace Safety & Insurance Act Regulation 110 showing the level of

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training and expiry dates, and details of level of First Aid supplies present at work site are required. A signed statement by the Contractor attesting to compliance with the following:

- WHMIS Regulations including proof of annual refresher for all personnel.
- Occupational Health and Safety Act
- Specifically, that all engaged in the project have completed the 'Basics of Fall Protection' training program by the Construction Safety Association of Ontario
- Personal protective equipment required by provincial legislation and Owner's requirements-including but not limited to:
 - Class B Hard Hat
 - Approved CSA Footwear
 - Approved CSA Hearing Protection where necessary
 - Approved Safety Glasses

12 Rejected or Defective Work

- 12.1 Defective or damaged Work, attributable to the Contractor, which has been rejected by either Owner/Consultant or the Client Corporation, shall be replaced and/or made good by the Contractor in accordance with the Contract at the Contractor's expense.
- 12.2 The Contractor shall, at its own expense, rectify and make good any defect in the Work and resulting damage, which may appear within one (1) year from the date of the final acceptance of the Work by Owner.

13 Laws, Notices and Permits

- 13.1 The Contractor shall give the required notices and shall comply with the laws, ordinances, rules, regulations, codes and orders of any authorities and utilities having jurisdiction that relate to the Work and the preservation of public health and safety.
- 13.2 The Contractor is responsible to apply and pay for all permits pertaining to the project.
- 13.3 The Contractor warrants and certifies that it has complied with Article (15) of Federal Regulation number 89, which states that an employer who hires a person in insurable employment shall request the employee to produce to the employer a Social Insurance Number Card within three (3) days after the employee commences employment. Non-compliance with this Article is cause for termination without notice of this Contract.

14 Taxes and Duties

- 14.1 The Contractor shall pay all government taxes and duties, including the **HST**, with respect to the Contract. The Contract Price, set out in the Tender Form is exclusive of the HST.

15 Indemnification by the Contractor

- 15.1 The Contractor shall indemnify and save Owner, their agents and employees harmless, from and against all claims, demands, losses, costs, including legal costs, damages, actions, suits or proceedings by whomever made, brought or prosecuted in any manner based upon, arising out of, related to, occasioned by or attributable to the activities of the Contractor, its servants, agents and sub-contractors in performing the Work, including an infringement or an alleged infringement of a patent of invention or any other kind of intellectual property.

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- 15.2 The Contract between Owner and Contractor contains a clause relieving Owner and any person engaged in the Work from liability for any loss of revenues, loss of profit or any other indirect or consequential damages suffered by the Contractor.

16 Insurance

- 16.1 The Contractor, at its own expense, procure and maintain in force for the duration of this Agreement:
- 16.2 Comprehensive General Liability Insurances, with a minimum limit not less than five million dollars (\$5,000,000.00) inclusive of bodily injury (including death) and property damage per occurrence or series of occurrences arising from one cause. The policy or policies shall cover all operations of the Contractor, products and completed operations, personal injury non-owned automobiles, contractual liability.
- 16.3 Builder's Risk Insurance/Installation Floater (for projects) insuring the full value of any work in the amount of the contract price and the full value, as stated, of products that are specified to be provided by Owner into any work. The policy shall insure against all risks of direct loss or damage and shall apply to all products, labour and supplies of any nature whatsoever, the property of the insured's or others for which the insured's may have assumed responsibility, to be used in or pertaining to site preparation, demolition of existing structures, erection and/or repair or any insured project while on site or in transit.
- 16.4 Professional Liability Insurance Should the work involve professional design, the Owner shall ensure that any Professionals hired shall carry Professional Liability Insurance in the amount not less than \$5,000,000 providing coverage for acts, errors and omissions arising from their professional services performed under this Agreement. The policy SIR/deductible shall not exceed \$50,000 per claim and if the policy has an aggregate limit, the amount of the aggregate shall be double the required per claim limit. The policy shall be underwritten by an insurer licensed to conduct business in the Province of Ontario and acceptable to The Corporation of the City of Sault Ste. Marie. The policy shall be renewed for 3 years after contract termination. A certificate of insurance evidencing renewal is to be provided each and every year. If the policy is to be cancelled or non-renewed for any reason, 90-day notice of said cancellation or non-renewal must be provided to The Corporation of the City of Sault Ste. Marie. The Corporation of the City of Sault Ste. Marie has the right to request that an Extended Reporting Endorsement be purchased by the Contractor at the Contractor's sole expense.
- 16.5 The foregoing insurance coverages shall be underwritten by an insurer licensed in the province in which the Contractor provides the Services under this Agreement.
- 16.6 Owner is to be added as additional insured's to all of the above policies, but with respect to the operations covered by this Agreement.
- 16.7 The Contractor shall deliver to Consultant a certificate or certificates of insurance as evidence that the required coverage's are in effect and that Owner shall be given thirty days prior written notice of cancellation or expiry of or material change to such coverages.
- 16.8 It is the sole responsibility of the Contractor to determined what additional insurance coverages, if any, are necessary and advisable for its own protection or to fulfill its obligations under this Agreement. Any such additional insurance shall be provided and maintained by the Contractor at its own expense.

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17 Suspension or Termination

17.1 Owner may suspend or terminate the Contract as per CCDC.

18 Applications for Payment and Payment

18.1 The Contractor will make an application for payment monthly as per CCDC.

18.2 Application for payment shall be submitted to Consultant, approved and re-submitted to Owner for release of monies.

18.3 Notwithstanding the number of Work orders or other written notices issued to the Contractor by Owner, within any calendar month, Owner will pay for any Work undertaken by the Contractor under this Contract only once per month.

18.4 Any payment made by Owner shall not be construed as evidence that the Work is satisfactory or in accordance with the Contract.

18.5 **Substantial Performance will not be granted until all Manuals, As-Built, ESA Certificate, owner training, commissioning, City building permit etc. has been completed and submitted. All systems must be operational prior to Substantial Performance being awarded.**

19 Workers Compensation

19.1 The Contractor will provide Owner with current certificates of clearance from the Workers Compensation Board or Commission de la Santé et Sécurité au Travail of the Province in which the Work is being undertaken throughout the course of the Contract.

20 Toxic and Hazardous Substances and Materials

20.1 If the Contractor encounters toxic or hazardous substances or materials the Contractor shall take all reasonable steps to ensure that no person suffers injury, sickness or death and that no property is injured or destroyed as a result of exposure to or the presence of the substances or material and shall immediately report its findings to Owner by telephone or fax and confirm in writing.

20.2 If the Contractor is delayed or incurs additional costs as a result of encountering heretofore-unknown toxic substances or materials the time for performance of the Work shall be extended and the Contractor will be reimbursed its proper costs.

20.3 The Contractor shall dispose of all toxic and hazardous substances and materials in accordance with all federal, provincial and municipal standards, codes and regulations.

20.4 Contractor shall not bring any toxic or hazardous substances or materials to site. If such substances are found they shall be removed and replaced. Contractor will incur all costs associated.

21 Cooperation and Protection

21.1 The Contractor shall cooperate fully with other Contractors or Workers sent onto the Place of Work.

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- 21.2 Perform Work with a minimum disturbance to occupants, public and normal use of the premises.
- 21.3 The Contractor shall give the required notices and shall comply with the laws, ordinances, rules, regulations, codes and orders of Authorities having jurisdiction that relate to the Work, the preservation of public health and to construction safety.
- 21.4 The Contractor will comply with the requirements of the current building use. All required documents are available for study from Owner. Make all provisions for required training from Owner.
- 21.5 The Contractor will be responsible for security for security of the building. Further building shall be secured at end of each shift including locking or securing of all entry points and arming of security system. If failure to secure and arm building owner may require third party security company to be retained at contractor's expense.
- 21.6 The Contractor shall be solely responsible for construction safety at the place of the Work.
- 21.7 Should the prosecution of the Work require interference with any electronic voice and data equipment operated by the Owner then the Contractor will adhere to and comply with the Owner's operational procedure.

22 Controlled Products

- 22.1 The Contractor shall ensure that where substances classified as controlled products under the Control Products Regulations are to be used at the place of the Work, the Contractor shall ensure that his employees receive appropriate training as per Provincial/Federal Regulations and the Workplace Hazardous Materials Information System (WHMIS).
- 22.2 The Contractor shall ensure that all controlled products are identified to the Consultant and shall obtain Material Safety Data sheet (MSDS) for controlled products, which shall be made available at the place of Work.
- 22.3 Owner must be advised when controlled products are brought onto the place of Work.

23 Quality Control

- 23.1 Upon award of Contract the Contractor, if requested, shall submit to Owner a quality management plan indicating quality goals, objectives and implementation processes and proposed reporting mechanisms. Where possible the Contractor shall conform to ISO 9000 standards and practices.

24 Amendments

- 24.1 No amendment of the Contract nor waiver of any of the terms and provisions shall be valid unless effected by a written amendment, signed by authorized representatives of the Contractor and Owner.

25 Entire Agreement

- 25.1 The Contract constitutes the entire agreement between the parties with respect to the subject matter of the Contract and supersedes all previous negotiations, communications and other agreements relating to it unless they are incorporated by reference in the

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Contract.

25.2 Valuation of Changes in the Work

25.3 When the valuation of a change in the Work is to be determined either by estimate and acceptance in lump sum, or by cost and a fixed or percentage fee, the valuation shall be in accordance with the following:

Work Performed by Own Forces +15%

Work Performed by Sub-Contractors +10%

Contractor to provide detailed breakdown of estimate if requested.

26 Guarantee

26.1 The Contractor shall: a) guarantee all materials and Workmanship used in the Work to be strictly in accordance with the tender documents and to be of the best quality; b) provide a first class job with proper and efficient operations and free from all defects.

26.2 Any defects that may appear in any of the Work within one (1) year after the written acceptance by Owner, (ordinary wear and tear accepted) all be replaced by the Contractor without additional expense to Owner.

26.3 Where any such defects occur, this Contractor shall be held responsible for all costs incurred in making good the defective Work. All damage to other materials, equipment, systems, fixtures, building and landscape caused by such defects, repairs, maintenance and servicing shall be made good at the Contractor's expense.

27 Schedule of Work

27.1 Prepare schedule in form of a horizontal bar chart. Project date shall start at receipt of Building Permit and Contract.

27.2 Provide a separate bar for each major item of work or operation. Split horizontally for projected and actual performance.

27.3 Provide horizontal time scale identifying first work day of each week.

27.4 Format for listings: chronological order of start of each item of work.

27.5 Identification of listings: By specification Section numbers or Systems description.

27.6 Submit initial format of schedules within 10 days after award of Contract.

27.7 Submit schedules in electronic format as required by Consultant and hard copies.

27.8 Submit two hard copies to Consultant and Owner.

27.9 Submit revised progress schedule with each application for payment.

27.10 Distribute copies of revised schedule to:

- 1) Job site office.
- 2) Subcontractors.
- 3) Other concerned parties

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- 27.11 Instruct recipients to report to Contractor within 10 days, any problems anticipated by timetable shown in schedule.
- 27.12 Work may be carried out during regular working hours or for scheduling purposes after hours, as long as there is no interruption to other operations in the building. If there are noise complaints, or work affecting operations, work will have to be completed after hours. All demolition and heavy construction must be done after hours/weekends.
- 27.13 Regulatory Requirements
- .1 Permits:
 - .1 Provide authorities having jurisdiction with information requested.
 - .2 Pay for and obtain all certificates and permits required including for the building permit.
 - .3 Contractor to provide information as necessary to obtain permits.
 - .4 Date of Construction Schedule to start on the date of receipt of Building Permit
 - .2 Building Codes:
 - .1 The project work has been documented to comply with the requirements of the Ontario Building Code (latest version) and all amendments to date.
 - .2 Modifications to the project must not reduce the requirements of the Ontario Building Code.
 - .3 Conform to local by-laws which amend or expand upon the requirements of the Ontario Building Code, where known.
 - .4 Conform to Ontario Fire Code, latest amendment.
 - .3 Safety Codes:
 - .1 Comply with the requirements of the Ontario Ministry of Labour specifically, and municipal and/or federal authorities as applicable for construction safety on this project.
 - .2 Contractor to include all costs for temporary facilities necessary to comply with safety standards.
 - .3 Conform to local by-laws which amend or expand upon the requirements of the Ontario Building Code, where known.
 - .4 Maintain access to exits at ALL times.
- 28 Extension of Contract**
- 28.1 Extension of Contract will not be granted without providing just cause delivered to Consultant and approved by Owner
- 29 Construction Meeting**
- 29.1 Project meetings will be held regularly, at weekly or bi-weekly intervals as determined at the Pre-construction meeting, throughout the course of the project.
- 29.2 Such meetings shall be attended by representatives of the Owner, Consultant(s), Contractor's Project Supervisor and the Job Superintendent, Mechanical subcontractor,

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Electrical subcontractor and any other subtrades currently working on site, or are imminent to commence working on site, or as requested by the Consultant. Representatives attending the meeting shall have the authority to speak for and make commitments for the Company/Firm being represented.

29.3 The Contractor shall chair the meetings and take and distribute minutes of each subsequent meeting, issue all notices in regard to forthcoming meetings, and arrange for attendance of all trade representatives, and shall provide suitable premises for such meetings.

29.4 Format minutes with section headings as noted below. Append each item with an Action By comment indicating company/firm responsible for follow up (include due date where applicable).

.1 **Old Business:** review and approval of minutes of previous meeting. Maintain outstanding/unresolved issues in the minutes of the meeting.

.2 **New Business:**

.1 Completed Construction: review of work in progress since previous meeting.

.2 Field observations: problems, conflicts and resolutions.

.3 Construction Schedule: problems that may impede construction schedule and actions taken to correct.

.4 Delivery: review of off-site fabrication and delivery schedules.

.5 Impending Construction: work to be completed prior to next meeting and information/coordination required to complete.

.6 Safety issues: concerns and accident reports.

.7 Changes: proposed changes to contract, status of pricing/approval.

.3 **Other Business:** Include any additional items deemed necessary by the contractor.

30 Security Clearance

30.1 The Contractor shall, upon request by Owner, provide and cause all persons employed on the Work to provide personal data for Security Clearances purposes. Such security clearance may include criminal background check.

31 Cutting And Patching

31.1 Submit written request in advance of cutting or alteration which affects; Structural integrity of any element of Project, Integrity of weather-exposed or moisture-resistant elements, Efficiency, maintenance, or safety of any operational element, Visual qualities of sight-exposed elements, Work of Owner or separate contractor.

31.2 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.

31.3 Prior to breaking any walls or openings, provide a letter from a professional engineer certifying the method of breaking and patching of the walls is acceptable and will not affect the structural integrity of the building.

31.4 Perform removal, cutting, fitting, and patching to complete the Work.

31.5 Perform work to avoid damage to other work.

31.6 Restore work with new products in accordance with Contract Documents.

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- 31.7 At penetration of fire-rated wall, ceiling, of floor construction, completely seal voids with fire-rated, fire-resistant material, full thickness of construction element.

32 Shop Drawings and Product Data

- 32.1 "Shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of the Work.
- 32.2 Provide Shop Drawings and Product Data for all new Equipment listed within Contract Documents.
- 32.3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connection, explanatory notes and other information necessary for completion of Work.
- 32.4 Adjustments made on shop drawings by Engineer are not intended to change Contract Price.

- 32.5 **Submit digital copies of shop drawings for each requirement requested in specification Sections and as Engineer may reasonably request for review.**

33 Record Drawings

- 33.1 After award of Contract, Engineer will provide a PDF set of drawings for purpose of maintaining record drawings. Accurately and neatly record deviations from Contract Documents caused by site conditions and changes ordered by Owner. Use sharp red pencil indicating all deviations from contract documents.
- 33.2 Identify drawings as "Project Record Copy". Maintain in new condition and make available for inspection on site by Engineer. On completion of each phase of Work and prior to final inspection, submit record documents to Engineer.

34 Maintenance Manuals/Data Books

- 34.1 **At Substantial Performance, submit to Engineer, a digital copy of operating and maintenance manuals for review.**
- 34.2 Manuals to contain operational information on sophisticated materials, equipment any maintenance information and part replacements.
- 34.3 Upon review and approval of digitally submitted manuals. Contractor to provide (2) hard copy manuals which shall be bound 8"x11" and divided in a neat and orderly fashion, along with Digital Copy of Maintenance Manuals.

35 Construction Facilities and Temporary Controls

- 35.1 Existing building will be occupied and cleaned during construction. Execute Work to cause minimum interference with activities in existing construction and maintain maximum safety to occupants. Take reasonable measures to minimize and control noise, dirt and dust during Work.

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- 35.2 Before entering existing premises to carry out Work or to obstruct or take out of use any area of existing premises, or to cause any other interference, request meeting with Owner's representative in order to reach agreement as to time and length of time you may cause interference, possess, obstruct or remove from use any such area or services.
- 35.3 Provide construction facilities and temporary controls in order to execute work expeditiously. Remove from site all such work after use.
- 35.4 Furnish and install all necessary temporary wiring and panels and upon completion of the Work, remove all such temporary facility.
- 35.5 Furnish and install area distribution boxes so located that the individual trades may use 30 m (100') maximum length extension cords to obtain adequate power and artificial lighting at all points where required for the Work, for inspection and safety.
- 35.6 Telephone: Contractor to make their own arrangements for telephone facilities.
- 35.7 One (1) Existing facility (clearly indicated before commencement of work by owner) within the building are available for the Contractor's use. Keep facilities clean and neat.
- 35.8 Maintain all temporary facilities and controls as long as needed for the safe and proper completion of the Work. Remove all such temporary facilities and controls as rapidly as progress of the Work will permit, or as directed by the Engineer.
- 35.9 Contractor is responsible to provide temporary heating and ventilation as required to ensure building meets OBC/Owner standards. Provide minimum temperature of 18 deg. C during heating season until main source of heating can be commissioned and project is completed and signed off.
- 35.10 All cost for temporary measures is the responsibility of the Contractor.
- 35.11 Upon award of the Contract review the project site and provide a proposed Construction Area Map at the Pre-Construction meeting which indicates the following:
1. Contractor equipment access to site
 2. Construction parking
 3. Material storage areas
 4. Construction Trailer locations
 5. Sanitary Facilities
 6. Limit of construction (and location of construction barricade)
 7. Safety and First Aid Stations
 8. Security Station
- In preparing map do not restrict the Owners use of the Property.
- 35.12 Revise map as required and circulate to all construction forces. Direct all subtrades and suppliers to provide deliveries to approved areas.
- 35.13 During any contract operations involving equipment stationed at ground level, or presenting a hazard to people or traffic at ground level, provide temporary barricades, walks, hoarding, covered walks, and the like to permit safe passage of persons to and from all building entrances and exits.

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- 35.14 Do not, at any time, restrict fire fighting access to the building or site.
- 35.15 Keep designated parking areas clean at all times and, on job completion, provide ongoing repair to temporary surfaces to eliminate ruts, bumps and other deterioration due to use by the Contractor and their trades.
- 35.16 Obtain and pay for additional storage or work areas off site as needed for operations.
- 35.17 Provide dust and safety barriers between occupied and construction space and allow access through to other areas in the building.

36 Certificates And Transcripts

- 36.1 Prior to signing of the Contract, submit the following:
- 36.2 Liability Insurance Policy, General Conditions as amended by the Supplementary Conditions, Name of the Contractor's Superintendent, Certificate of Clearance from the Workers' Compensation Board, Construction Schedule of Work, and any other items requested.
- 36.3 Prior to the application of first payment claim, submit the following:
- 36.4 Schedule and Schedule of Values, Estimate of Monthly Progress Claims Job Progress Schedule Updates, and any other items requested.
- 36.5 Prior to submission of final payment claim, submit the following:
- 36.6 Record Drawings, Maintenance Manuals/Data Books, Final inspection certificate by Electrical Safety Authority, Statutory Declaration, Certificate of Clearance from Workers' Compensation Board and any other items requested.

End of Section

Part 1 General**1.1 RELATED SECTIONS****1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International)
 - .1 CSA C22.1, Canadian Electrical Code, Part 1 (Latest Edition), Safety Standard for Electrical Installations.
 - .2 CAN3-C235-83, Preferred Voltage Levels for AC Systems, 0 to 50,000 V.
- .2 Electrical and Electronic Manufacturer's Association of Canada (EEMAC)
 - .1 EEMAC 2Y-1-1958, Light Gray Colour for Indoor Switch Gear.
- .3 Institute of Electrical and Electronics (IEEE)/National Electrical Safety Code Product Line (NESC)
- .4 Ontario Electrical Safety Code (Latest Edition)

1.3 DEFINITIONS

- .1 Electrical and electronic terms: unless otherwise specified or indicated, terms used in these specifications, and on drawings, are those defined by IEEE SP1122.

1.4 DESIGN REQUIREMENTS

- .1 Operating voltages: to CAN3-C235.
- .2 Motors, electric heating, control and distribution devices and equipment to operate satisfactorily at 60 Hz within normal operating limits established by above standard.
 - .1 Equipment to operate in extreme operating conditions established in above standard without damage to equipment.
- .3 Language operating requirements: provide identification nameplates and labels for control items in English.

1.5 SUBMITTALS

- .1 Shop drawings:
 - .1 Submit drawings stamped.
 - .2 Indicate on shop drawings clearances for operation, maintenance, and replacement of operating equipment devices.
 - .3 If changes are required, notify of these changes before they are made.

1.6 SYSTEM STARTUP

- .1 Instruct Departmental Representative, Consultant and operating personnel in operation, care and maintenance of systems, system equipment and components.
- .2 Arrange and pay for services of manufacturer's factory service engineer to supervise start-up of installation, check, adjust, balance and calibrate components and instruct operating personnel.
- .3 Provide these services for such period, and for as many visits as necessary to put equipment in operation, and ensure that operating personnel are conversant with aspects of its care and operation.

1.7 OPERATING INSTRUCTIONS

- .1 Provide for each system and principal item of equipment as specified in technical sections for use by operation and maintenance personnel.
- .2 Operating instructions to include following:
 - .1 Wiring diagrams, control diagrams, and control sequence for each principal system and item of equipment.
 - .2 Start up, proper adjustment, operating, lubrication, and shutdown procedures.
 - .3 Safety precautions.
 - .4 Procedures to be followed in event of equipment failure.
 - .5 Other items of instruction as recommended by manufacturer of each system or item of equipment.
- .3 Print or engrave operating instructions and frame under glass or in approved laminated plastic.
- .4 Post instructions where directed.
- .5 For operating instructions exposed to weather, provide weather-resistant materials or weatherproof enclosures.
- .6 Ensure operating instructions will not fade when exposed to sunlight and are secured to prevent easy removal or peeling.

1.8 MATERIALS AND EQUIPMENT

- .1 Provide material and equipment in accordance with all sections.
- .2 Material and equipment to be CSA certified. Where CSA certified material and equipment is not available, obtain special approval from authority having jurisdiction before delivery to site and submit such approval as described in PART 1 - SUBMITTALS.
- .3 Factory assemble control panels and component assemblies.

1.9 ELECTRIC MOTORS, EQUIPMENT AND CONTROLS

- .1 Verify installation and co-ordination responsibilities related to motors, equipment and controls, as indicated.

1.10 WARNING SIGNS

- .1 Warning Signs: in accordance with requirements of authority having jurisdiction.
- .2 Decal signs, minimum size 175 x 250 mm.

1.11 WIRING TERMINATIONS

- .1 Ensure lugs, terminals, screws used for termination of wiring are suitable for either copper or aluminum conductors.

1.12 EQUIPMENT IDENTIFICATION

- .1 Identify electrical equipment with nameplates and labels as follows:
 - .1 Nameplates: lamicoid 3 mm thick plastic engraving sheet matt white finish face, black core, lettering accurately aligned and engraved into core mechanically attached with self tapping screws.

- .2 Sizes as follows:

NAMEPLATE SIZES

Size 1	10 x 50 mm	1 line	3 mm high letters
Size 2	12 x 70 mm	1 line	5 mm high letters
Size 3	12 x 70 mm	2 lines	3 mm high letters
Size 4	20 x 90 mm	1 line	8 mm high letters
Size 5	20 x 90 mm	2 lines	5 mm high letters
Size 6	25 x 100 mm	1 line	12 mm high letters
Size 7	25 x 100 mm	2 lines	6 mm high letters

- .2 Labels: embossed plastic labels with 6 mm high letters unless specified otherwise.
- .3 Wording on nameplates and labels to be approved by Engineer prior to manufacture.
- .4 Allow for minimum of twenty-five (25) letters per nameplate and label.
- .5 Nameplates for terminal cabinets and junction boxes to indicate system and/or voltage characteristics.
- .6 Disconnects, starters and contactors: indicate equipment being controlled and voltage.
- .7 Transformers: indicate capacity, primary and secondary voltages.

1.13 WIRING IDENTIFICATION

- .1 Identify wiring with permanent indelible identifying markings, numbered coloured plastic tapes, on both ends of phase conductors of feeders and branch circuit wiring.
- .2 Maintain phase sequence and colour coding throughout.
- .3 Colour coding: to CSA C22.1.
- .4 Use colour coded wires in communication cables, matched throughout system.

1.14 CONDUIT AND CABLE IDENTIFICATION

- .1 Colour code conduits, boxes and metallic sheathed cables.
- .2 Code with plastic tape or paint at points where conduit or cable enters wall, ceiling, or floor, and at 15 m intervals.
- .3 Colours: 25 mm wide prime colour and 20 mm wide auxiliary colour.

	Prime	Auxiliary
up to 250 V	Yellow	
up to 600 V	Yellow	Green
up to 5 kV	Yellow	Blue
up to 15 kV	Yellow	Red
Telephone	Green	
Other Communication Systems	Green	Blue0
Fire Alarm	Red	
Emergency Voice	Red	Blue
Other Security Systems	Red	Yellow

1.15 FINISHES

- .1 Shop finish metal enclosure surfaces by application of rust resistant primer inside and outside, and at least two coats of finish enamel.
 - .1 Paint outdoor electrical equipment "equipment green."

Part 2 Execution**2.1 INSTALLATION**

- .1 Do complete installation in accordance with CSA C22.1 except where specified otherwise.
- .2 Do overhead and underground systems in accordance with CSA C22.3 No.1 except where specified otherwise.

2.2 NAMEPLATES AND LABELS

- .1 Ensure manufacturer's nameplates, CSA labels and identification nameplates are visible and legible after equipment is installed.

2.3 CONDUIT AND CABLE INSTALLATION

- .1 Install conduit and sleeves prior to pouring of concrete.
 - .1 Sleeves through concrete: schedule 40 steel pipe sized for free passage of conduit, and protruding 50 mm.
- .2 Install cables, conduits and fittings embedded or plastered over, close to building structure so furring can be kept to minimum.

2.4 LOCATION OF OUTLETS

- .1 Locate outlets in accordance with Section 16132 - Outlet Boxes, Conduit Boxes and Fittings .
- .2 Do not install outlets back-to-back in wall; allow minimum 150 mm horizontal clearance between boxes.
- .3 Change location of outlets at no extra cost or credit, providing distance does not exceed 3000 mm, and information is given before installation.
- .4 Locate light switches on latch side of doors.
 - .1 Locate disconnect devices in mechanical and elevator machine rooms on latch side of floor.

2.5 MOUNTING HEIGHTS

- .1 Mounting height of equipment is from finished floor to centreline of equipment unless specified or indicated otherwise.
- .2 If mounting height of equipment is not specified or indicated, verify before proceeding with installation. Install electrical equipment at following heights unless indicated otherwise.
 - .1 Local switches: 1200 mm.
 - .2 Wall receptacles:
 - .1 General: 300 mm.
 - .2 Above top of continuous baseboard heater: 200 mm.
 - .3 Above top of counters or counter splash backs: 175 mm.
 - .4 In mechanical rooms: 1200 mm.
 - .3 Panelboards: as required by Code or as indicated.
 - .4 Telephone and interphone outlets: 300 mm.
 - .5 Wall mounted telephone and interphone outlets: 1200 mm.
 - .6 Fire alarm stations: 1200 mm.

- .7 Fire alarm bells: 2100 mm.
- .8 Television outlets: 300 mm. (Co-ordinate with Architect)
- .9 Wall mounted speakers: 2100 mm.
- .10 Door bell pushbuttons: 1200 mm.

2.6 CO-ORDINATION OF PROTECTIVE DEVICES

- .1 Ensure circuit protective devices such as overcurrent trips, relays and fuses are installed to required values and settings.
- .2 Submit coordination and short circuit report sealed by a professional engineer licensed in Ontario. Submit information prior to shop drawing review.

2.7 FIELD QUALITY CONTROL

- .1 Load Balance:
 - .1 Measure phase current to panelboards with normal loads (lighting) operating at time of acceptance; adjust branch circuit connections as required to obtain best balance of current between phases and record changes.
 - .2 Measure phase voltages at loads and adjust transformer taps to within 2% of rated voltage of equipment.
- .2 Conduct following tests in accordance with manufacturers requirements..
 - .1 Power distribution system including phasing, voltage, grounding and load balancing.
 - .2 Circuits originating from branch distribution panels.
 - .3 Lighting and its control.
 - .4 Motors, heaters and associated control equipment including sequenced operation of systems where applicable.
 - .5 Systems: fire alarm system and communications.
 - .6 Insulation resistance testing:
 - .1 Megger circuits, feeders and equipment up to 350 V with a 500 V instrument.
 - .2 Megger 350-600 V circuits, feeders and equipment with a 1000 V instrument.
 - .3 Check resistance to ground before energizing.
- .3 Provide instruments, meters, equipment and personnel required to conduct tests during and at conclusion of project.
- .4 Manufacturer's Field Services:
 - .1 Obtain written report from manufacturer verifying compliance of Work.
 - .2 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

2.8 PERMITS

- .1 Arrange and pay for all city building permits and ESA inspection permits.

2.9 CLEANING

- .1 Clean and touch up surfaces of shop-painted equipment scratched or marred during shipment or installation, to match original paint.
- .2 Clean and prime exposed non-galvanized hangers, racks and fastenings to prevent rusting.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CAN/CSA C22.2 No. 18, Outlet Boxes, Conduit Boxes, Fittings and Associated Hardware, A National Standard of Canada.
 - .2 CSA C22.2 No. 56, Flexible Metal Conduit and Liquid-Tight Flexible Metal Conduit.
 - .3 CSA C22.2 No. 83, Electrical Metallic Tubing.

Part 2 Products

2.1 CABLES AND REELS

- .1 Provide cables on reels or coils.
 - .1 Mark or tag each cable and outside of each reel or coil, to indicate cable length, voltage rating, conductor size, and manufacturer's lot number and reel number.
- .2 Each coil or reel of cable to contain only one continuous cable without splices.
- .3 Identify cables for exclusively dc applications.

2.2 CONDUITS

- .1 Electrical metallic tubing (EMT): to CSA C22.2 No. 83, with couplings.
- .2 Rigid PVC conduit: to CSA C22.2 No. 211.2.
- .3 Flexible metal conduit: to CSA C22.2 No. 56, aluminum and liquid-tight flexible metal.

2.3 CONDUIT FASTENINGS

- .1 One hole steel straps to secure surface conduits NPS 2 24 mm and smaller.
 - .1 Two hole steel straps for conduits larger than NPS 2 25 mm.
- .2 Beam clamps to secure conduits to exposed steel work.
- .3 Channel type supports for two or more conduits at 1 m on centre.
- .4 Threaded rods, 6 mm diameter, to support suspended channels.

2.4 CONDUIT FITTINGS

- .1 Fittings: to CAN/CSA C22.2 No. 18, manufactured for use with conduit specified.
Coating: same as conduit.

- .2 Ensure factory "elbows" where 90 degrees bends for NPS 1 25 mm and larger conduits.
- .3 Watertight connectors and couplings for EMT.
 - .1 Set-screws are acceptable.

2.5 FISH CORD

- .1 Polypropylene .

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

- .1 Install conduits to conserve headroom in exposed locations and cause minimum interference in spaces through which they pass.
- .2 Conceal conduits except in mechanical and electrical service rooms in unfinished areas.
- .3 Use electrical metallic tubing (EMT) except in cast concrete.
- .4 Use rigid pvc conduit underground.
- .5 Use flexible metal conduit for connection to motors in dry areas connection to recessed incandescent fixtures without prewired outlet box connection to surface or recessed fluorescent fixtures work in movable metal partitions.
- .6 Use liquid tight flexible metal conduit for connection to motors or vibrating equipment in damp, wet or corrosive locations.
- .7 Use explosion proof flexible connection for connection to explosion proof motors.
- .8 Install conduit sealing fittings in hazardous areas.
 - .1 Fill with compound.
- .9 Minimum conduit size for lighting and power circuits: NPS 3/4 19 mm.
- .10 Bend conduit cold:
 - .1 Replace conduit if kinked or flattened more than 1/10th of its original diameter.
- .11 Mechanically bend steel conduit over 19 mm diameter.
- .12 Field threads on rigid conduit must be of sufficient length to draw conduits up tight.

- .13 Install fish cord in empty conduits.
- .14 Run 2-NPS 1 25 mm spare conduits up to ceiling space and 2-NPS 1 25 mm spare conduits down to ceiling space from each flush panel.
 - .1 Terminate these conduits in 152 x 152 x 102 mm junction boxes in ceiling space or in case of an exposed concrete slab, terminate each conduit in flush concrete or surface type box.
- .15 Remove and replace blocked conduit sections.
 - .1 Do not use liquids to clean out conduits.
- .16 Dry conduits out before installing wire.

3.3 SURFACE CONDUITS

- .1 Run parallel or perpendicular to building lines.
- .2 Locate conduits behind infrared or gas fired heaters with 1.5 m clearance.
- .3 Run conduits in flanged portion of structural steel.
- .4 Group conduits wherever possible on suspended or surface channels.
- .5 Do not pass conduits through structural members except as indicated. Do not locate conduits less than 75 mm parallel to steam or hot water lines with minimum of 25 mm at crossovers.

3.4 CONCEALED CONDUITS

- .1 Run parallel or perpendicular to building lines.
- .2 Do not install horizontal runs in masonry walls.
- .3 Do not install conduits in terrazzo or concrete toppings.

3.5 CONDUITS IN CAST-IN-PLACE CONCRETE

- .1 Locate to suit reinforcing steel.
 - .1 Install in centre one third of slab.
- .2 Protect conduits from damage where they stub out of concrete.
- .3 Install sleeves where conduits pass through slab or wall.
- .4 Provide oversized sleeve for conduits passing through waterproof membrane, before membrane is installed.
 - .1 Use cold mastic between sleeve and conduit.
- .5 Conduits in slabs: minimum slab thickness 4 times conduit diameter.
- .6 Encase conduits completely in concrete with minimum 25 mm concrete cover.

- .7 Organize conduits in slab to minimize cross-overs.

3.6 CONDUITS IN CAST-IN-PLACE SLABS ON GRADE

- .1 Run conduits NPS 1 25 mm and larger below slab and encase in 75 mm concrete envelope.
 - .1 Provide 50 mm of sand over concrete envelope below floor slab.

3.7 CONDUITS UNDERGROUND

- .1 Slope conduits to provide drainage.
- .2 Waterproof joints (pvc excepted) with heavy coat of bituminous paint.

3.8 CLEANING

- .1 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION

BLIND RIVER FIRE DEPARTMENT GENERATOR REPLACEMENT 241 CAUSLEY STREET BLIND RIVER, ON

MET PROJECT No. 25M48

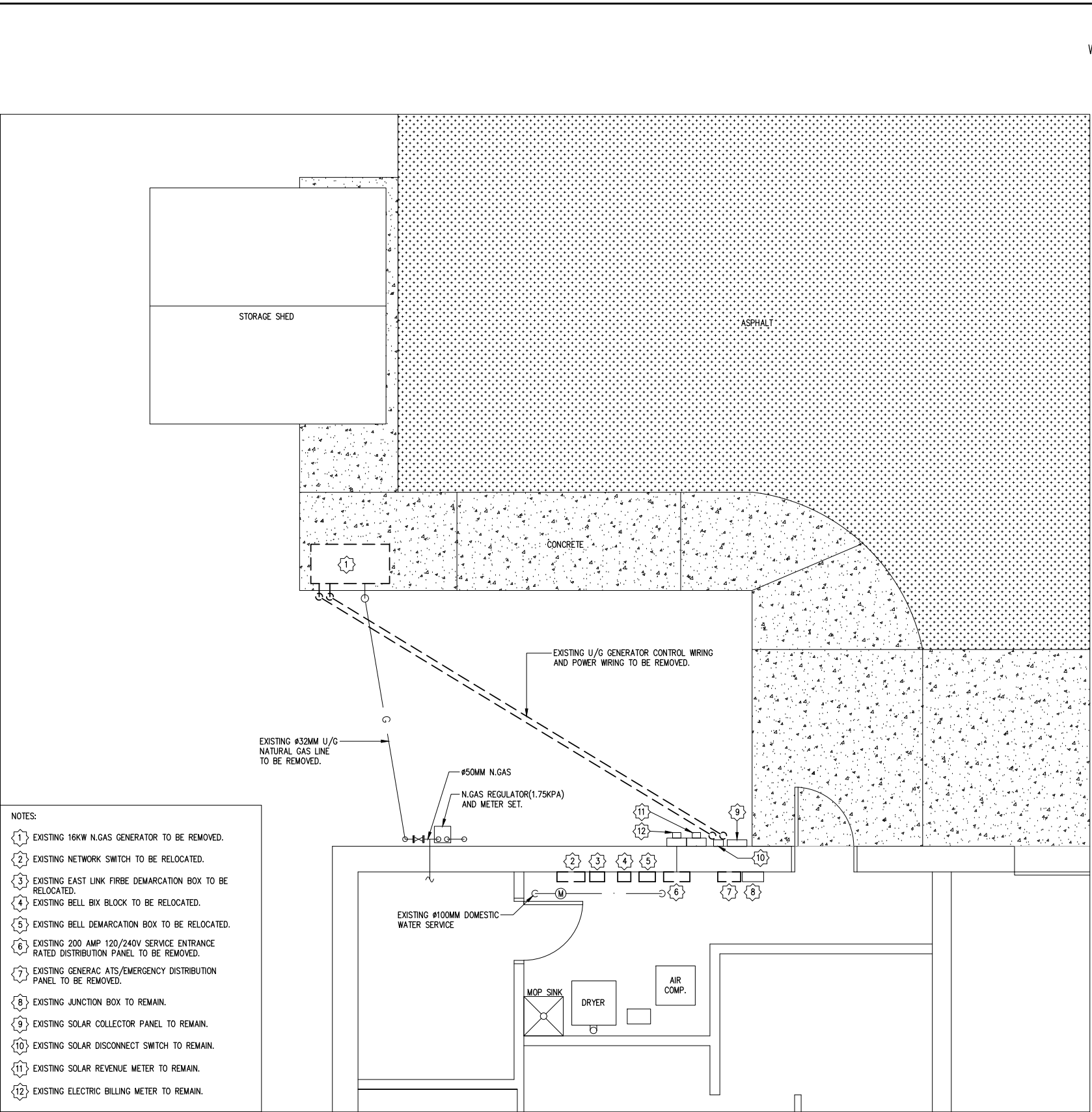
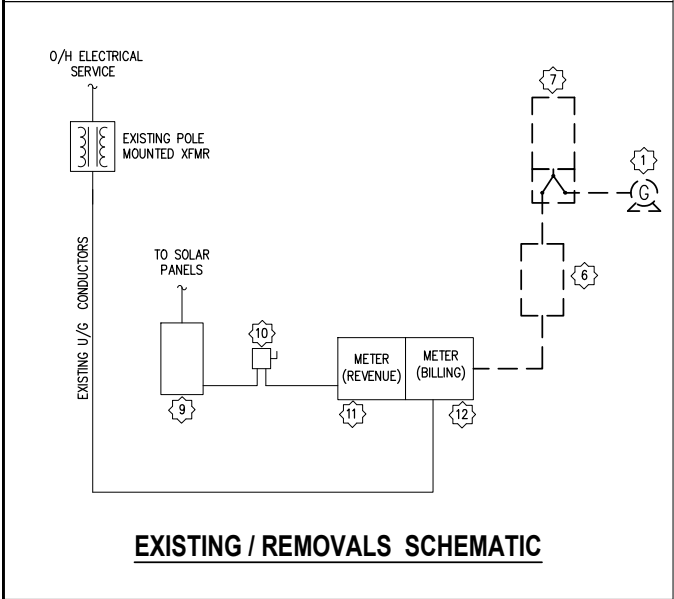
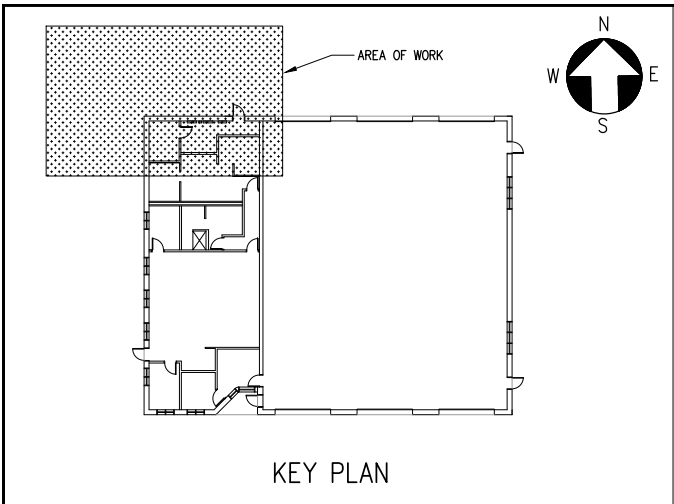
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PROJECT DRAWING LIST

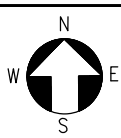
ME1 GENERATOR REMOVAL PLAN
ME2 GENERATOR PLAN
ME3 GENERAL NOTES AND PANEL SCHEDULES



 **met**
energy systems
CONSULTING ENGINEERING
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- NOTES:
- 1 EXISTING 16KW N.GAS GENERATOR TO BE REMOVED.
 - 2 EXISTING NETWORK SWITCH TO BE RELOCATED.
 - 3 EXISTING EAST LINK FIRBE DEMARCATION BOX TO BE RELOCATED.
 - 4 EXISTING BELL BIX BLOCK TO BE RELOCATED.
 - 5 EXISTING BELL DEMARCATION BOX TO BE RELOCATED.
 - 6 EXISTING 200 AMP 120/240V SERVICE ENTRANCE RATED DISTRIBUTION PANEL TO BE REMOVED.
 - 7 EXISTING GENERAC ATS/EMERGENCY DISTRIBUTION PANEL TO BE REMOVED.
 - 8 EXISTING JUNCTION BOX TO REMAIN.
 - 9 EXISTING SOLAR COLLECTOR PANEL TO REMAIN.
 - 10 EXISTING SOLAR DISCONNECT SWITCH TO REMAIN.
 - 11 EXISTING SOLAR REVENUE METER TO REMAIN.
 - 12 EXISTING ELECTRIC BILLING METER TO REMAIN.



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ENGINEER'S SEAL



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REV.	DESCRIPTION	DATE

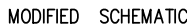
PROJECT DESCRIPTION:
**BLIND RIVER FIRE
DEPARTMENT GENERATOR**

DRAWING DESCRIPTION:
**GENERATOR REMOVALS
PLAN**

SCALE:	1:75	FORM SIZE (394x254)
DRAWN BY:	MR	DATE: 2025-11-18
CHECKED BY:	TSJ	DATE: 2025-11-18
PROJECT NO:	25M41	FILE NO: 25M41-ME1

ME1

SHEET NO.
1 OF 3
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REV



ENGINE SYSTEM • 2.4L INLINE 4 CYLINDER TURBO CHARGED AND AFTER-COOLED • 9.5:1 COMPRESSION RATIO • HYDRAULIC LIFTER • GEAR OIL PUMP • FULL FLOW SPIN-ON CARTRIDGE OIL FILTER • 3.8L OIL CAPACITY • 1,800 RPM OPERATING SPEED	CONTROLS • EVOLUTION CONTROLLER
FUEL SYSTEM • NPT FUEL CONNECTION ON FRAME • FUEL SHUTOFF SOLENOID • N.GAS 1.25~3.5KPA, 12.4 M³/H @ 100% LOAD • FLEX CONNECTOR	ACCESSORIES • ENGINE HEATER KIT • BATTERY CHARGER • BATTERY HEATER KIT • BASE PLUG KIT • CELLULAR CONNECTION MONITORING • SPARE MAINTENANCE KIT
COOLING SYSTEM • FACTORY-INSTALLED RADIATOR • 50/50 ETHYLENE GLYCOL ANTIFREEZE • 9.5L CAPACITY • BELT DRIVEN WATER PUMP • BELT DRIVEN FAN	ELECTRICAL SYSTEM • 12V SYSTEM VOLTAGE • 30A BATTERY CHARGING ALTERNATOR • 2.5A BATTERY CHARGER • FLOODED LEAD ACID, GROUP 26 525 CCA MINIMUM
	ENCLOSURE • 64DB @ 7M (OPERATING SPEED, NO LOAD)

NOTES

GENERAL

1. INCLUDE COSTS TO HEAT AND HOARD GENERATOR PAD FOR MINIMUM 6 DAYS AFTER POUR TO ELIMINATE FREEZING.
2. CONTRACTOR TO ENSURE GRANULAR BASE IS NOT FROZEN PRIOR TO PLACEMENT OF GRANULARS AND CONCRETE. REFER TO CAN CSA A23.1&2 FOR HOT AND COLD WEATHER CONCRETE PLACEMENT PROCEDURES.
3. ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED AND/OR SHALL BE CONSTRUCTED IN ACCORDANCE WITH:
 - a. CSA - A23.3-14 'DESIGN OF CONCRETE STRUCTURE'
 - b. CSA - A23.1-14 'CONCRETE MATERIALS AND METHOD OF CONCRETE CONSTRUCTION'
 - c. CSA A23.2-14 'TEST METHODS AND STANDARD PRACTICES FOR CONCRETE'
4. ALL CONCRETE FORMWORK AND OR FALSEWORK SHALL CONFORM WITH:
 - a. CSA - S269.1-FORMWORK FOR CONSTRUCTION PURPOSES'
 - b. CSA - S269.3-M 'CONCRETE FORMWORK'

SOILS, BACKFILLING, AND COMPACTION

5. A GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR SHALL INSPECT THE CONDITION AND ASSURE THE ADEQUACY OF ALL SUB-GRADES, FILLS, AND BACKFILLS BEFORE PLACEMENT OF SLAB ON GRADE.
6. BACKFILL MATERIAL SHALL CONSIST OF CLEAN, WELL GRADED GRANULAR SOILS FREE OF ORGANIC MATERIAL, SILT AND CLAY.
7. EXCAVATED MATERIAL SHALL BE LEGALLY DISPOSED OF.

SLAB ON GRADE

8. UNDER SLAB FILL SHALL CONSIST OF A MINIMUM OF 10" OF COMPACTED GRANULAR MATERIAL.
9. PLACE SLAB-ON-GRADE ON MATERIAL CAPABLE OF SUSTAINING 25 kPa SURCHARGE WITHOUT SETTLEMENT.



TEMPORARY SERVICE REQUIREMENTS:

CONTRACTOR TO PHASE/STAGE WORK TO PROVIDE MINIMAL POWER
DISRUPTION. METHOD OF PROCEDURE TO BE COORDINATED WITH
OWNER AND AGREED TO PRIOR TO COMPLETING ANY WORK
REQUIRING POWER OUTAGES.

DURING POWER OUTAGES CONTRACTOR TO PROVIDE TEMPORARY POWER SOURCE TO ENSURE AIR COMPRESSOR (BREATHING AIR), DISPATCH OFFICE, O/H DOORS AND FACILITY HEAT ARE FUNCTIONAL.



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ENGINEER'S SEAL



0	ISSUED FOR TENDER	2025-11-18
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PROJECT DESCRIPTION:

BLIND RIVER FIRE
DEPARTMENT GENERATOR

DRAWING DESCRIPTION:

GENERATOR PLAN

SCALE:	1:75	FORM SIZE (394x254)
DRAWN BY:	MR	DATE: 2025-11-18
CHECKED BY:	TSJ	DATE: 2025-11-18
PROJECT NO:	25M48	FILE NO: 25M48-ME2

ME2

SHEET NO.
2 OF 3
0
REV

ELECTRICAL NOTES

1. PROVIDE EACH ITEM MENTIONED OR INDICATED OF QUALITY AND SUBJECT TO QUALIFICATIONS NOTED; PERFORM ACCORDING TO CONDITIONS STATED IN EACH OPERATION PRESCRIBED; AND PROVIDE THEREFORE ALL LABOUR, MATERIAL, EQUIPMENTS, INCIDENTALS AND SERVICES REQUIRED TO COMPLETE THE INSTALLATION.
2. EXAMINE THE SITE EXISTING EQUIPMENT AND THE LOCAL CONDITIONS AFFECTING THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY FOR ANY OBVIOUS CONSIDERATIONS OVERLOOKED.
3. AFTER THE WORK IS COMPLETE, BUT BEFORE FINAL PAYMENT, GIVE THE OWNER A WRITTEN GUARANTEE THAT YOU WILL, AT NO CHARGE TO THE OWNER, REPLACE OR REPAIR ANY DEFECTS IN WORKMANSHIP AND MATERIALS NOT DUE, IN THE OPINION OF THE ENGINEER TO MISUSE OR NEGLECT. GUARANTEE SHALL COVER A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE ARCHITECT, ENGINEER AND OWNER. THIS GUARANTEE SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OR GUARANTEES OF LONGER PERIOD, BUT SHALL BE BINDING ON ALL WORK NOT OTHERWISE COVERED.
4. ALL WORK SHALL COMPLY STRICTLY TO THE REQUIREMENTS OF THE LATEST EDITIONS OF THE ELECTRICAL CODE AS ADOPTED AND AMENDED BY ONTARIO REGULATIONS AND THE BUILDING CODE. THESE CODES AND ANY ADDITIONAL REQUIREMENTS OF THE POWER UTILITY SHALL FORM AN INTEGRAL PART OF THE SPECIFICATION. WHERE DRAWING CALLS FOR EQUIPMENT, WIRING OR OTHER REQUIREMENTS EXCEEDING THE MINIMUM REQUIREMENTS OF THE CODE, THE DRAWING SHALL BE FOLLOWED.
5. BEFORE STARTING ANY WORK, SUBMIT THE REQUIRED NUMBER OF COPIES OF THE ELECTRICAL DRAWING TO THE POWER AUTHORITY AND LOCAL ELECTRICAL INSPECTION DEPARTMENT, FOR THEIR APPROVAL AND COMMENTS.
6. PAY ALL FEES FOR EXAMINATION OF DRAWING AND OBTAIN ALL PERMITS REQUIRED AND PAY ALL PERMIT AND INSPECTION FEES.
7. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, NOISE AND VIBRATION.
8. ON AWARD OF CONTRACT, SUBMIT FOR REVIEW A LIST OF DELIVERY DATES AND SHOP DRAWINGS FOR ALL EQUIPMENT.
9. ARRANGE FOR INSPECTION OF ALL WORK BY POWER AUTHORITY AND INSPECTION DEPARTMENT. ON COMPLETION OF THE WORK, PRESENT TO THE OWNER THE FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL.
10. SCHEDULE AND COORDINATE ALL WORK WITH OTHER TRADES.
11. THE OWNER SHALL HAVE TEMPORARY USE OF INSTALLATION PRIOR TO FINAL ACCEPTANCE.
12. ALL CLAIMS FOR EXTRAS SHALL BE SUPPORTED BY WRITTEN AUTHORIZATION AND ITEMIZED MATERIAL AND LABOUR COST BREAKDOWNS, THERE SHALL BE NO EXTRA CLAIM FOR RELOCATION OF AY EQUIPMENT WITHIN 10 FEET FORM THE ORIGINAL LOCATION.
13. ALL ELECTRICAL EQUIPMENT MOUNTED AND CONNECTED BY THIS CONTRACTOR, WHETHER SUPPLIED BY HIM OR NOT, SHALL BE IDENTIFIED WITH DYMOTAPE. ALL CIRCUITS SHALL BE IDENTIFIED ON TYPEWRITTEN DIRECTORY IN PANELS.
14. WIRING IN FINISHED AREAS SHALL BE CONCEALED. BX CABLE MAY BE USED (MAXIMUM 10'-0") IN HOLLOW PARTITIONS OR SHORT CONNECTION FROM JUNCTION BOX IN CEILING SPACE TO LIGHTING FIXTURES. DO NOT RUN BX OR SIMILAR CABLES THROUGH UNFINISHED AREAS. TERMINATE BX IN A JUNCTION BOX IN THE CEILING SPACE AND RUN FROM JUNCTION BOX TO PANEL WITH CONDUIT. ALL CONDUCTORS, UNLESS OTHERWISE SPECIFIED, SHALL BE COPPER, 600V, GRADE WITH INSULATION TYPE THINN MINIMUM #12 AWG EXCEPT THAT CONTROL WIRING SHALL BE MINIMUM #14 AWG. WIRING FOR EMERGENCY LIGHTING REMOTE HEADS SHALL BE MINIMUM #10 AWG. FLEXIBLE CONDUIT SHALL BE USED FOR FINAL SHORT CONNECTIONS BETWEEN OUTLET AND ELECTRICAL EQUIPMENT SUCH AS MOTORS, TRANSFORMERS. ALL CONDUITS SHALL BE COMPLETE WITH BUSHINGS IN PLACE BEFORE CONDUCTORS ARE PULLED INTO THE CONDUITS.
15. PANELS AND DISCONNECT SWITCHES SHALL BE SCHNEIDER/SQUARE D OR EATON/CUTLER HAMMER, PANEL BOARDS SHALL BE C/W COPPER BUS, HINGED DOOR, BOLT-ON TYPE FULL SIZE BREAKERS, AND TRM RING. BALANCE LOAD ON ALL PHASES TO WITHIN 5% PROVIDE LOCK "ON" DEVICES FOR BREAKERS CONTROLLING NIGHT LIGHTS , EXIT LIGHTS, EMERGENCY LIGHTS, ALL MECHANICAL AND ALARM EMS. ALL SURFACE MOUNTED PANELS, SHALL HAVE SPRINKLER HOOD TO PROTECT AGAINST FIRE PROTECTION SPRINKLER WATER FLOW.
16. CONDUITS TO BE RIGID WHERE RUN EMBEDDED IN MASONRY BUT OTHERWISE MAY BE EMT. CONDUIT SIZES TO BE ¾" UNLESS OTHERWISE TONED. EMPTY CONDUITS FOR USE BY OTHERS, SHALL HAVE FISHWIRE WITH SURPLUS LENGTH AT EACH END AND FOLDED BACK AND SECURED. WALL BOXES SHALL BE STANDARD SWITCH BOXES MOUNTED AT THE HEIGHT AND LOCATION SHOWN.
17. EXPLOSIVE FASTENERS SHALL NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL FROM THE BUILDING OWNER OR LANDLORD.
18. ALL STARTERS AND CONTROLS SHALL BE SUPPLIED BY MECHANICAL TRADES FOR MECHANICAL EQUIPMENT.
19. PROVIDE ALL "POWER WIRING" AND CONNECTIONS TO ALL MECHANICAL EQUIPMENT. "POWER WIRING" IS CONSIDERED AS ALL LINE VOLTAGE WIRING CARRYING FULL LOAD CURRENT TO THE EQUIPMENT TO BE WIRED. ALL CONTROL WIRING SHALL BE DONE BY MECHANICAL TRADES.
20. DISTRIBUTION DIAGRAM IS SCHEMATIC ONLY. LAYOUT EQUIPMENT TO SUIT AVAILABLE SPACE.
21. ALL MATERIAL SHALL BE STORED NEATLY AND OUT OF THE WAY. CLEAN UP DAILY, ALL REFUSE CAUSED BY WORK. AT COMPLETION OF PROJECT, CLEAN ALL FIXTURES AND EQUIPMENT.
22. CHECK AND VERIFY INCOMING SERVICE FOR VOLTAGE AND CURRENT CAPACITY AVAILABLE. IF DIFFERENT FROM THAT SHOWN, ADVISE CLIENT'S REPRESENTATIVE.
23. THE FOLLOWING DOCUMENTS SHALL BE SUBMITTED TO THE CONSULTANT ON COMPLETION OF THE PROJECT:
 - ELECTRICAL INSPECTION CERTIFICATE.
 - AS-BUILT DRAWINGS.
 - GUARANTEE.
 - GENERATOR AND TRANSFER SWITCH COMMISSIONING AND STARTUP REPORT
 - SHOP DRAWINGS & MAINTENANCE MANUALS
24. ALL EQUIPMENT AND MATERIAL SHALL BE ULC LABELED.
25. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED CEILING, FLOOR AND WALLS SHALL BE SEALED AS PER NEC 300-21

ELECTRICAL NOTES

26. ALL ELECTRICAL TO BE INSTALLED IN EMT UNLESS OTHERWISE NOTED.
27. POWER AND DATA RECEPTACLES MOUNTED BESIDE EACH OTHER MUST SHARE SAME FACEPLATE.
28. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.
29. CONTRACTOR TO PROVIDE SPARE 15A BREAKERS TO FILL ALL EMPTY SLOTS OF NEW PANELS.
30. ALL COMMUNICATIONS, DATA, SECURITY, TELEPHONE AND OTHER LOW VOLTAGE WIRING INSTALLED IN THE CEILING SPACE SHALL BE FT-6 RATED AS PER NEC 300-22.
31. WORK IN EXISTING BUILDING:
 - A. ALL CUTTING, PATCHING AND PAINTING SHALL BE DONE BY ELECTRICAL CONTRACTOR.
 - B. ALL WIRING SHALL BE RUN CONCEALED WHERE POSSIBLE EXCEPT THAT CONDUITS IN UNFINISHED WALL AND CEILING MAY BE INSTALLED ON SURFACE. WIRING IN OTHER EXISTING FINISHED AREAS SHALL BE CHASED INTO THE PARTITION, WALL OR CEILING.
 - C. EXISTING INSTALLATION:
 - SUPPLY, INSTALL AND MAINTAIN ALL REQUIRED TEMPORARY WIRING TO OCCUPIED AREAS AT ALL TIMES. PROVIDE ADEQUATE PROTECTION TO EXISTING WIRING AND EQUIPMENT SERVING THE EXISTING AND NEW AREAS AND PARTICULARLY WHERE WIRING AND ELECTRICAL EQUIPMENT HAVE BECOME EXPOSED TO MECHANICAL INJURY OR MOISTURE IN THE COURSE OF ALTERATIONS OR NEW CONSTRUCTION.
 - EXISTING ELECTRICAL EQUIPMENT REMOVED AND INDICATED FOR REUSE SHALL BE IN GOOD WORKING CONDITION AND SHALL BE CLEANED BEFORE INSTALLATION. ALL UNUSED CONDUIT ENTRANCE OPENINGS SHALL BE SEALED BEFORE REINSTALLATION.
 - OBSOLETE CONDUITS AND CABLES SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY AND SHALL BE REMOVED COMPLETELY.
 - ALL UNUSED FUSED SWITCHES AND CIRCUIT BREAKERS SHALL BECOME SPARE.
 - CERTAIN ITEMS ARE IDENTIFIED ON THE DRAWINGS AS EXISTING "RELOCATED". DISCONNECT SAID EQUIPMENT FROM PRESENT SOURCE AND AFTER RELOCATION, RECONNECT AND REINSTALL ALL ELECTRICAL COMPONENTS.
 - ALL EXISTING EQUIPMENT AND MATERIAL NOT REQUIRED IN THE FINAL INSTALLATION SHALL BE CAREFULLY REMOVED AT THE APPROPRIATE TIME AND SHALL BE DISPOSED OF.

NOTES

1. CONTRACTOR IS RESPONSIBLE TO APPLY AND PAY FOR ALL PERMITS REQUIRED AND IS TO ENSURE THAT ANY MOE, TSSA REGULATIONS ARE INCLUDED.
2. IT IS CRITICAL THAT THE SERVICES BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO KEEP THE A FACILITY OPERATIONAL DURING INSTALLATION OF NEW GENERATOR.
3. CAREFUL PLANNING IS REQUIRED AND SOME WORK MAY HAVE TO BE DONE AFTER HOURS AND ON WEEKENDS AT NO ADDITIONAL COST TO OWNER.
4. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH LOCAL UTILITY COMPANY FOR ANY REQUIRED SHUT-DOWNS. CONTRACTOR TO INCLUDE FOR ALL COSTS ASSOCIATED WITH SHUT-DOWN. ANY SHUT-DOWN IS TO BE CAREFULLY CO-ORDINATED WITH THE CLIENT. BACKUP OF ALL SERVICES ARE REQUIRED DURING SHUTDOWN OF POWER.
5. ALL SITE AREAS AFFECTED FROM EXCAVATIONS AND REMOVALS ARE TO BE RESTORED TO EXISTING CONDITIONS. ALL GRASS AREA TO BE RESTORED.
6. CONTRACTOR TO PROVIDE FULL TANK OF PROPANE GAS UPON COMPLETION OF PROJECT, INCLUDED IN CONTRACT PRICE.
7. CONTRACTOR TO INCLUDE IN THE CONTRACT PRICE, TRAINING, START-UP AND FULL COMMISSIONING OF GENERATOR.

ALL EXISTING CIRCUITS TO BE TRANSFERRED TO NEW PP-1

NEW POWER PANEL 'PP-1'

LOCATION: ELEC RM
POWER: 120/240VAC/1ø/3W 200A
72 CIRCUIT

DESCRIPTION OF LOAD	CCT. NO.	BKR AMP	AB	BKR AMP	CCT. NO.	DESCRIPTION OF LOAD
BOILER FEED	1	15		15	2	GARAGE DOOR
EMERGENCY LIGHTS	3	15		15	4	GARAGE LIGHTS
PANEL LIGHTS	5	15		15	6	GARAGE LIGHTS
WATER HEATER	7	15		15	8	GARAGE DOOR
CLASS RECEPTACLES	9	15		15	10	GARAGE DOOR
GARAGE DOOR	11	15		15	12	WEST WALL RECEPTACLES
GARAGE LIGHTS	13	15		15	14	WEST WALL RECEPTACLES
GARAGE LIGHTS	15	15		15	16	GARAGE HEAT 4
FRIDGE RECEPTACLE	17	15		15	18	GARAGE DOOR
GARAGE HEAT 2	19	15		15	20	CLASS LIGHTS
DISPATCH RECEPTACLES	21	15		15	22	CLASS LIGHTS
CLASSROOM RECEPTACLES	23	15		15	24	BATH LIGHTS
DISPATCH RECEPTACLES	25	15		15	26	BATH RECEPTACLES
SPARE	27	15		15	28	OFFICE LIGHTS
SPARE	29	15		15	30	GARAGE DOOR
SPARE	31	15		15	32	BATTERY CHARGER
SPARE	33	15		15	34	ENGINE HEATER
AC#2	35	15		15	36	BATTERY HEATER
	37			15	38	SPARE
AC#1	39	15		15	40	SPARE
	41			15	42	ISOLATED GROUND
CEILING FANS	43	15		30	44	HOSE DRYER
UNIT #1	45	20		46		
	47			15	48	FIRE PREV PLUGS
LIGHTS BACK AREA	49	15		15	50	GFI PLUGS
SHOP PLUG	51	15		15	52	RH #3 & #4
UNIT #2	53	40		15	54	MD
	55			15	56	DARRYL'S OFFICE
OUTSIDE LIGHTS	57	15		15	58	HRV
OUTSIDE PLUGS	59	15		15	60	RH#1 & RH#2
ISOLATED GROUND	61	15		15	62	LIGHTS DISPATCHER
LIGHTS IN BAYS	63	15		15	64	MD HEATER
PUMP#1	65	15		15	66	EXHAUST MAIN AREA GAS DETECTION
BELL CABLE PLUG	67	15		15	68	BUZZER
MONUMENT LIGHTS SUB PANEL	69	30		60	70	AIR COMPRESSOR
	71			72		

EXISTING PANEL 'PP'

LOCATION: ELEC RM
POWER: 120/240VAC/1ø/3W 200A
40 CIRCUIT

DESCRIPTION OF LOAD	CCT. NO.	BKR AMP	AB	BKR AMP	CCT. NO.	DESCRIPTION OF LOAD
AC#2	1	15		15	2A	ISOLATED GROUND
	3			30	2B 4A	HOSE DRYER
AC#1	5	15		15	4B	FIRE PREV PLUGS
	7			15	6	GFI PLUGS
CEILING FANS	9A	15		15	8	RH #3 & #4
UNIT #1	9B	20		15	10	
LIGHTS BACK AREA	11A	15		15	12	CLASSROOM LIGHTS
SHOP PLUG	11B	15		15	14A	FRIDGE PLUG
UNIT #2	13A	15		15	14B	MD
	13B	40		15	16A	DARRYL'S OFFICE
OUTSIDE LIGHTS	15B	15		15	16B	PLUGS BATHROOM
OUTSIDE PLUGS	17	15		15	18A	PLUGS CLASSROOM
4 PLUGS BY DISPATCHER	19	15		15	18B	HRV
ISOLATED GROUND	21	15		15	20A	RH#1 & RH#2
LIGHTS IN BAYS	23	15		15	20B	PLUGS DISPATCHER
BOILER	25	15		15	22A	LIGHTS BATHROOM
				15	22B	LIGHTS DISPATCHER
HOT WATER TANK	27	15		15	24A	MD HEATER
PUMP #1	29A	15		15	24B	EXHAUST MAIN AREA GAS DETECTION
BELL CABLE PLUG	29B	15		15	26A	GARAGE DOOR
				15	26B	GARAGE DOOR
MONUMENT LIGHTS SUB PANEL	31	30		15	28A	GARAGE DOOR
	33			15	28B	GARAGE DOOR
	35			15	30A	GARAGE DOOR
	37			15	30B	GARAGE DOOR
	39			15	32	BUZZER
				100	34	GENERATOR PANEL
					36	
				60	38	AIR COMPRESSOR
					40	

EXISTING PANEL 'GENERATOR PANEL'

LOCATION: ELEC RM
POWER: 120/240VAC/1ø/3W 200A
32 CIRCUIT

DESCRIPTION OF LOAD	CCT. NO.	BKR AMP	AB	BKR AMP	CCT. NO.	DESCRIPTION OF LOAD
BOILER FEED	1	15		15	2	GARAGE DOOR
	3	15		15	4	GARAGE LIGHTS
	5			15	6	
EMERGENCY LIGHTS	7	15		15	8	GARAGE DOOR
PANEL LIGHTS	9	15		15	10	GARAGE DOOR
WATER HEATER	11	15		15	12	WEST WALL RECEPTACLES
	13			15	14	
CLASS RECEPTACLES	15	15		15	16	GARAGE HEAT 4
GARAGE DOOR	17	15		15	18	GARAGE DOOR
GARAGE LIGHTS	19	15		15	20	CLASS LIGHTS
	21			15	22	
FRIDGE RECEPTACLE	23	15		15	24	BATH LIGHTS
GARAGE HEAT 2	25	15		15	26	BATH RECEPTACLES
DISPATCH RECEPTACLES	27	15		15	28	OFFICE LIGHTS
CLASSROOM RECEPTACLES	29	15		15	30	SPARE
DISPATCH RECEPTACLES	31	15		15	32	GARAGE DOOR

ALL EXISTING CIRCUITS TO BE TRANSFERRED TO NEW PP-1, WHETHER INDICATED OR NOT. CONTRACTOR TO PROVIDE UPDATED PANEL SCHEDULE AT COMPLETION OF PROJECT.



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DO NOT SCALE DRAWINGS

ENGINEER'S SEAL



0	ISSUED FOR TENDER	2025-11-18
REV.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

BLIND RIVER FIRE
DEPARTMENT GENERATOR

DRAWING DESCRIPTION:

GENERAL NOTES
AND PANEL SCHEDULES

SCALE: FORM SIZE (39x254)

DRAWN BY: MR DATE: 2025-11-18

CHECKED BY: TSJ DATE: 2025-11-18

PROJECT NO: 25M48 FILE NO: 25M48-ME3

ME3

SHEET NO.
3 OF 3
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REV