TOWN OF FORT FRANCES

AGENDA - August 10, 2020

Join Microsoft Teams Meeting

+1 807-701-5975 Canada, Thunder Bay (Toll)

Conference ID: 599 006 067#

COMMITTEE OF THE WHOLE MEETING - virtual
(Session No. 047) 5:30 PM

Page

1. Call to Order

2. Non-agenda items identified to be considered later in this meeting, both in-camera and in open meeting.

3. Disclosure of pecuniary interest and the general nature thereof.

4. Council Reports on Board & Committee Activity:

4.1 Mayor June Caul - Verbal Update

Councillor Douglas Judson - Verbal Update

Councillor John McTaggart - Verbal Update

Councillor Rick Wiedenhoeft - Verbal Update

5. Consent Agenda:

5.1 Miss Teenage Canada 4

- approval of this report will agree with the recommendation of the Administration & Finance Executive Committee to receive the request as information and send best wishes to Emily for the pageant.

5.2 COVID-19 Community Response Fund Gift 5 - 19

- approval of this report will agree with the recommendation of the Administration & Finance Executive Committee to accept the gift of $11,500 which will be earmarked to the capital upgrades of the 'Out of the Cold' shelter via the RRDSSAB, and further that an authorizing by-law be brought forth to the next meeting of Council.

5.3 Request for Reconsideration M. O. S. (820 Huffman Court) 20 - 24

- approval of this report will agree with the recommendation of the Administration & Finance Executive Committee to process the Minutes of Settlement for the property located at 820 Huffman Court.

5.4 Gas Tax Funding Application 25 - 31

- approval of this report will agree with the recommendation of the

		Page
	Community Services Executive Committee to submit the 2019/2020 Gas Tax Funding Program Application as outlined in this report.	
5.5	SPC01-2020: Mill Demolition - Site Plan Control	32
	- approval of this report will agree with the recommendation of the Planning & Development Executive Committee to designate the demolition of the Fort Frances mill under site plan control.	
5.6	SPC06-2019: 737 Scott Street - Site Plan Control	33 - 48
	- approval of this report will agree with the recommendation of the Planning & Development Executive Committee such that the building permit for the remaining storage garage structure be issued prior to finalizing the site plan control agreement, and that the site plan control agreement be finalized prior to constructing the associated parking lot.	
5.7	Fort Frances / Aazhogan Renewal Planning Committee - Draft Terms of Reference	49 - 52
	- approval of this report will agree with the recommendation of the Planning & Development Executive Committee to allow administration to enter the Fort Frances / Aazhogan Renewal Planning Committee as per the provided Terms of Reference, and subsequently authorize the application for grant funding.	
5.8	Award of Tender 20-OF-09 - 2020 Zoom Camera Inspection of Storm Sewers	53 - 54
	- approval of this report will agree with the recommendation of the Operations & Facilities Executive Committee to not award Tender 20-OF-09.	
5.9	Award of Tender 20-OF-11 - 2020 King's Highway Reconstruction	55 - 61
	- approval of this report will agree with the recommendation of the Operations & Facilities Executive Committee to ensure that tender 20-OF-11 be awarded to George Armstrong Company at an estimated cost of $2,034,823.21 which includes HST and a contingency allowance of $150,000.00, and that prior to construction start, an open house public meeting is scheduled as outlined in the report and further that the Mayor and Clerk be authorized to execute the contract documents on behalf of the Corporation of the Town of Fort Frances.	
5.10	April 2020 Drinking Water Systems Monthly Summary Report	62 - 69
	- approval of this report will agree with the recommendation of the Operations & Facilities Executive Committee to accept the April 2020 report prior to it being made available to the general public.	
5.11	May 2020 Drinking Water Systems Monthly Summary Report	70 - 77

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- approval of this report will agree with the recommendation of the Operations & Facilities Executive Committee to accept the May 2020 report prior to it being made available to the general public.

5.12 June 2020 Drinking Water Systems Monthly Summary Report 78 - 85

- approval of this report will agree with the recommendation of the Operations & Facilities Executive Committee to accept the June 2020 report prior to it being made available to the general public.

6. Operations and Facilities Division:

6.1 Verbal Update on Capital Projects

7. General:

7.1 COVID-19 update

8. Information:

8.1 Marina Washrooms - report received as information. 86

8.2 Fort Frances Wastewater Treatment Facility June 2020 Monthly Report 87 - 94

8.3 Operations and Facilities Division - Environmental Area - Operations Statistics April 2020 95 - 98

8.4 Fort Frances Fire & Rescue - June 2020 Report 99 - 101

8.5 July 2020 Building Statistics 102

8.6 Complaint Register - June 2020

9. Non-agenda items:

10. ADJOURNMENT

FORTFRANCES
BOUNDLESS

TO: **Mayor Caul & Members of Council**

FROM: **Dawn Galusha, Treasurer**

DATE: **August 4, 2020**

SUBJECT: **Miss Teenage Canada**

BACKGROUND

At the July 13, 2020 meeting of Council, the request from Emily Bliss, Miss Teenage Northern Ontario was referred to the Administration & Finance Committee for recommendation.

Emily has qualified for the National Miss Teenage Canada Pageant and is fundraising for "The Children's Wish Foundation" and seeking financial sponsorship. Each delegate must raise a total of $2,500 plus taxes for their entry fee. In her letter, she outlines the benefits of sponsorship. It is not typical for Council to support an individual.

RECOMMENDATION

Administration recommends receiving the request as information with best wishes for Emily in the pageant.

Council Approval of This Report Will approve the Administration and Finance recommendation to receive the request as information with best wishes for Emily in the pageant.

FORTFRANCES
BOUNDLESS

Treasury Report 2020/38

TO: Mayor Caul & Members of Council

FROM: Dawn Galusha, Treasurer

DATE: August 4, 2020

SUBJECT: COVID-19 Community Response Fund Gift

BACKGROUND

An offer of a one-time gift in the amount of $11,500 has been received from the Canadian Medical Association. The donation is intended to address the unique needs of vulnerable people in our community in the context of COVID-19. The project we chose was to provide the Rainy River District Social Services Administration Board with the funds to assist in capital upgrade necessary to renovate the "Out of the Cold" shelter with provides temporary housing for vulnerable populations.

Attached you will find further information and the funding agreement.

RECOMMENDATION

The Administration & Finance Executive Committee recommends that Council accept the gift and support the project chosen.

Council Approval of this Report will agree to the Administration & Finance Executive Committee Recommendation to accept the gift of $11,500 which will be earmarked to the capital upgrades of the "Out of the Cold" shelter via the RRDSSAB, and further that an authorizing By-Law be brought forth to the next meeting of Council.

FONDATION AMC CMA FOUNDATION

CMA FOUNDATION COVID-19 COMMUNITY RESPONSE FUND FOR VULNERABLE POPULATIONS GRANT INITIATIVE

Community Gift Agreement

This GIFT AGREEMENT ("**Agreement**") is entered into as of the _____ day of _____, 2020 (the "**Effective Date**") by and between:

CMA FOUNDATION, a registered charity having its head office located at Suite 500, 1410 Blair Place, Ottawa, Ontario (Charitable No. 820429678 RR 0001) (the "**CMAF**")

and

CORPORATION OF THE TOWN OF FORT FRANCES, a Qualified Donee having its head office located at 320 Portage Avenue, Fort Frances, Ontario (the "**RECIPIENT**")

(collectively referred to as the "**Parties**", or each a "**Party**")

WHEREAS, the CMAF is a registered charity under the *Income Tax Act* (Canada) that gifts money to qualified donees to further excellence in healthcare;

AND WHEREAS, the RECIPIENT is a Canadian municipality which qualifies as a qualified donee as defined under the *Income Tax Ac*t (Canada) ("**Qualified Donee**");

AND WHEREAS, the CMAF wishes to provide a gift to the RECIPIENT in support of vulnerable populations within their community affected by COVID-19 as part of its **CMA Foundation COVID-19 Community Response Fund for Vulnerable Populations** pursuant to the terms and conditions of this Agreement;

The Parties hereby agree as follows:

The Gift

1. Subject to the terms and conditions of this Agreement, the CMAF agrees to make a gift to the RECIPIENT in the amount of $11,500.00 (CDN) (the "**Gift**"). The Gift will be made according to the following schedule:

Installment	Payment Amount	Date
One-Time Gift	$11,500.00	Upon receipt of: (a) signed Agreement, and (b) all banking information required to process the payment to the satisfaction of the CMAF.

The CMAF may add to or accelerate the completion of the Gift at its discretion.

The Term

2. The term of the Agreement shall begin on the Effective Date and end on March 31, 2021, unless terminated earlier in accordance with the terms of this Agreement (the "**Term**").

Purpose of the Gift

3. The RECIPIENT shall use the Gift for Eligible Expenses related to Eligible Activities, as defined in **Schedule A**, which: (a) support community-level emergency response to COVID-19 through interventions that address urgent gaps in ensuring the health and well-being of vulnerable populations in the RECIPIENT's community, and (b) contribute to the short- and long-term resiliency of community-level supports for vulnerable populations, including community health supports (the "**Purpose**").

4. If, at some future time, it becomes impossible or impractical to use the Gift for the Purpose, or if this Agreement is determined to be in conflict with any federal, provincial, or local law, regulation, or ordinance, the RECIPIENT 's governing body (such as Municipal Council or like body), in consultation with the CMAF, or its designate, will re-direct the use of the Gift in the best interest of the RECIPIENT and in a manner as close as possible to the original intent of the CMAF, as expressed in this Agreement.

Reporting

5. The RECIPIENT shall provide the reports described in **Schedule B** to this Agreement to the CMAF, or its designate, and shall make its representative(s) reasonably available to the CMAF, or its designate, to answer questions related to the reports required under this Agreement.

6. Copyright in all reports, documents and deliverables prepared in connection with this Agreement and listed in the Schedules of this Agreement (the "**Reports**") will be the exclusive property of, and all ownership rights shall vest in the RECIPIENT.

7. The RECIPIENT hereby grants to the CMAF an irrevocable, perpetual, worldwide, royalty-free license to use, publish, make improvements to, sub-license, translate and copy the Reports or portions thereof. This license shall survive the expiration or termination of this Agreement.

Representations and Warranties

8. The RECIPIENT represents and warrants to the CMAF (and acknowledges that the CMAF is relying on such representations and warranties in entering into this Agreement) that: (a) it has the full power and authority to enter into and perform its obligations under this Agreement; (b) it has taken all necessary actions to authorize the execution of this Agreement; and (c) it is and will continue to be a Qualified Donee throughout the Term of this Agreement.

Publicity

9. The RECIPIENT agrees that all communications, publicity and / or public notices to third parties related to the Gift and / or the activities funded by the Gift shall be aligned to, and consistent with, the terms of this Agreement and the information provided to the RECIPIENT by the CMAF, or its designate. The RECIPIENT agrees to keep the CMAF, or its designate, informed of any and all significant public notices, significant media pitches/coverage or significant publicity to third parties related to the Gift and / or the activities funded by the Gift.

10. The RECIPIENT agrees to reference the CMAF in all communications, public announcements, signage, media coverage and other forms of publicity relating to the activities funded by the Gift.

11. During the Term, the CMAF hereby grants to the RECIPIENT a non-exclusive, non-assignable, non-transferable, royalty-free, limited license to use its trademarks and logos (the "**Trademarks**") solely for the purpose of publicity relating to the Gift, activities supported by the Gift and fulfilling its obligations under this Agreement. Prior to use of the Trademarks, the RECIPIENT must submit to the CMAF for review and approval its actual proposed use of the Trademarks. The RECIPIENT agrees that it must not alter the Trademarks in any manner whatsoever beyond what is electronically provided by the CMAF including, without limitation, the appearance and size of such Trademarks.

Right of Audit and Records

12. The CMAF or its designate may at any time during the Term of this Agreement or for a period of three years following the end of the Term, audit and inspect accounts, records, receipts, vouchers, and other documents of the RECIPIENT relating to the Gift and its use ("**Records**") and shall have the right to make copies and take extracts of the Records. The RECIPIENT agrees to provide reasonable co-operation to assist with any such audit during such period and shall retain the Records for at least three years from the end of the Term. Records shall be treated as Confidential Information (see Section 13, below).

Confidentiality

13. The Parties acknowledge that the terms of this Gift Agreement (subject to Sections 9-10 - Publicity) and any oral or proprietary or confidential information exchanged between the Parties (whether marked as confidential information or not) in connection with the preparation and performance this Agreement shall be regarded as confidential information ("**Confidential Information**"). Each Party shall maintain confidentiality of all such Confidential Information, and without obtaining the prior written consent of the other Party, it shall not disclose any relevant Confidential Information to any third Parties. Notwithstanding the foregoing, (a) the CMAF may disclose Confidential Information to staff and employees of its sole member, the Canadian Medical Association (the "**CMA**") and the CMA's direct and indirect subsidiaries ("**CMA Affiliates**"), and (b) the Parties may disclose Confidential Information to any consultants and / or contractors engaged by the Party (or, in the case of the CMAF, engaged by the CMAF, the CMA or a CMA Affiliate) provided that such individuals shall be bound by confidentiality obligations similar to those set forth in this Section.

    "Confidential Information" excludes information that: (a) is or will be in the public domain (other than through the receiving Party's unauthorized disclosure); (b) is under the obligation to be disclosed pursuant to the applicable laws or regulations, or orders of the court or other government authorities; or (c) is required to be disclosed by any Party to its members, directors, officers, relevant employees, legal counsel or financial advisors provided that such individuals shall be bound by the confidentiality obligations similar to those set forth in this Section. Disclosure of any Confidential Information by staff members, contractors or consultants permitted under this Agreement shall be deemed disclosure of such Confidential Information by such Party, which Party shall be held liable for breach of this Agreement. This Section shall survive the termination of this Agreement for any reason.

Indemnity

14. The RECIPIENT shall indemnify and save the CMAF, its affiliates (comprised of the CMA and CMA Affiliates) and the Federation of Canadian Municipalities, and each of their respective members, officers, directors, employees, volunteers and agents (collectively the "**Indemnified Parties**"), harmless from and against all claims, actions, losses, expenses, costs or damages of every nature and kind that the Indemnified Parties may suffer, caused or alleged to be caused by any willful or negligent act, omission or delay on the part of the RECIPIENT or its officers, directors, employees, volunteers, contractors or agents, in connection with this Gift Agreement or the activities funded thereby.

Termination

15. This Agreement shall be terminated automatically and with immediate effect if at any time:

    a. The RECIPIENT loses its status as a Qualified Donee;
    b. An event takes place that, in the CMAF's reasonable opinion, affects the reputation and good standing of the RECIPIENT; or
    c. There is a material breach of any term of this Agreement.

16. Upon termination, any portion of the Gift that may be held by the CMAF and/or any unspent portion of the Gift that may be held by RECIPIENT at the time of termination shall be returned to the CMAF and distributed to such other Qualified Donee as may be selected by the CMAF.

General Provisions

17. Amendment. This Agreement may be amended in writing by the mutual consent of the Parties or their legal representatives.

18. Policies. This Agreement is subject to the policies of the CMAF, as may be amended from time to time.

19. Relationship between the Parties. This Agreement does not create a partnership, franchise, joint venture, agency, fiduciary or employment relationship between the Parties.

20. Notice. Unless otherwise provided, all notices, consents, requests, demands and other communications hereunder shall be in writing, and are deemed to have been duly given or made: (i) when delivered in person; (ii) three days after deposit in the Canada Post, first class postage prepaid certified mail, return receipt requested; (iii) overnight courier service, upon delivery by the overnight courier service with payment provided for; or (iv) in the case of fax or email, when acknowledged by the recipient; in each case addressed as follows:

    a. **RECIPIENT**
    Contact: Dawn Galusha, Treasurer
    Address: 320 Portage Ave.
    Fort Frances, ON P9A3P9
    Email: dgalusha@fortfrances.ca

    b. **CMAF**
    Contact: Allison Seymour, President
    Address: Suite 500, 1410 Blair Towers Place
    Ottawa ON K1J 9B9
    Email: cmafoundation@cma.ca
    Copy to: legal@cma.ca
    (With a reference to the COVID-Contract # noted in footer of this Agreement, if applicable.)

    Either Party may give notice under this section of a change of address.

21. Dispute Resolution. In the event a dispute arises out of or in connection with this Agreement and is not resolved in private meetings between the Parties, then such dispute or controversy shall be settled by a process of dispute resolution as follows to the exclusion of such persons instituting a law suit or legal action: (a) the dispute shall be settled by arbitration before a single arbitrator, in accordance with the Arbitration Act, 1991 (Ontario) or as otherwise agreed upon by the Parties to the dispute. The arbitration shall be held in Ottawa, Ontario. All

proceedings relating to arbitration shall be kept confidential, and there shall be no disclosure of any kind. The decision of the arbitrator shall be final and binding and shall not be subject to appeal on a question of fact, law or mixed fact and law; and (b) all costs of the arbitrator shall be borne by such Parties as may be determined by the arbitrator.Governing Law. This Agreement shall be governed and construed in accordance with the laws of the Province of Ontario and the Federal laws of Canada applicable therein.

22. Entire Agreement. This Agreement constitutes the entire agreement and full understanding among the Parties hereto with respect to all of the matters herein and it supersedes any prior negotiations, agreement or understandings among them, oral or written, with respect to the matters addressed herein, all of which are hereby cancelled.

23. Severability. Every provision of this Agreement is intended to be severable. If any term or provision hereof is illegal or invalid for any reason whatsoever, such illegality or invalidity shall not affect the validity of the remainder of this Agreement.

24. Waiver. Failure by either Party to exercise any of its rights, powers or remedies shall not constitute a waiver of those rights, powers or remedies.

25. Survival. Sections 7 (Reporting), 12 (Right of Audit and Records), 13 (Confidentiality), 14 (Indemnity), 15-16 (Termination) and 17-31 (General) herein shall survive such expiration or other termination of this Agreement to the extent necessary to carry out the intentions of the Parties under this Agreement.

26. Circumstances Beyond the Control of Either Party. Neither Party shall be responsible for damage caused by delay or failure to perform under the terms of this agreement resulting from matters beyond the control of the Parties including strike, lockout or any other action arising from a labour dispute, fire, flood, pandemic, act of God, war, riot or other insurrection, lawful act of public authority, or delay or default caused by a common carrier that cannot be reasonably foreseen or provided against.

27. Language. The Parties agree that this Agreement and related documents be drawn up in the English language only. Les parties conviennent que cette entente et les documents connexes soient rédigés en langue anglaise seulement.

28. Counterparts. This Agreement may be executed in counterparts with the same effect as if all Parties had signed the same document. A digital signature on this Agreement shall be sufficient and binding.

29. Further Assurances. Each of the Parties hereto will promptly do, make, execute or deliver, or cause to be done, made, executed or delivered, all such further acts, documents and things as the other Parties hereto may reasonably require from time to time for the purpose of giving effect to this Agreement.

30. Effective Date. This Agreement shall be deemed effective as Effective Date.

CMA FOUNDATION

By: _____
Allison Seymour, President

By: _____
Marie-Claude Fillion, Chief Financial Officer
We have the authority to bind the CMAF.

CORPORATION OF THE TOWN OF FORT FRANCES

By: _____
Douglas Brown, CAO

By: _____
Dawn Galusha, Treasurer
We have the authority to bind the RECIPIENT.

SCHEDULE A – ELIGIBLE ACTIVITIES and ELIGIBLE EXPENSES

CMA Foundation COVID-19 Community Response Fund for Vulnerable Populations

The following are **Eligible Activities** under this Agreement:

1. Health and medical services

This could include, but is not limited to, the purchase of personal hygiene products and personal protective equipment for staff and vulnerable individuals; providing general health or medical services (including counselling and substance use support); and the hiring of medical and other professionals to provide those services.

2. Daytime services and facilities

Many physical spaces (e.g. libraries, malls, community centres, etc.) and services (e.g. drop-in programs, food programs, etc.) that people experiencing homelessness use during the day are closed. This is leading to isolation protocols being breached even for those who have secured isolated housing. This could include, but is not limited to, the re-opening and/or repurposing, and staffing, of dedicated spaces for people experiencing homelessness (including municipal facilities), and the creation and / or expansion of permanent or temporary community hygiene facilities.

3. Client support services

Generally, client support services include individualized services to help improve integration and connectedness to support structures, such as treatment services. This could also include, but not be limited to, the procurement of emergency shelter beds and barriers to separate beds; and increased frequency or nature of cleaning of shelters and related facilities.

4. Coordination of resources and data collection

This could be used for, but not limited to, developing and supporting partnerships with community agencies who can assist vulnerable populations; disseminating information; and public relations activities.

5. Prevention and shelter diversion

Prevention includes activities aimed at preventing homelessness by supporting individuals and families at imminent risk of homelessness before a crisis occurs. Generally, this includes, but is not limited to, discharge planning from public systems and institutions, landlord intervention and emergency rental assistance. This could also include, but is not limited to, short-term financial assistance for rental arrears; landlord-tenant mediation addressing unpaid rent; delivery of non-housing financial support, such as groceries, personal hygiene products, etc., to offset housing costs; and assistance ensuring individuals exiting institutions immediately secure housing so that they do not access shelters.

6. Housing services

Housing services are those that help an individual or family transition into safe, stable housing. Generally, this includes, but is not limited to, assistance finding housing, funding to secure housing (deposit), and funding and support to furnish housing. This could also include, but is not limited to, measures to ensure physical distance or isolation, such as by placing and paying for individuals to live in temporary, transitional, or permanent housing accommodations (including, but not limited to, hotels, rooming houses, community buildings, etc.).

7. Capital investments

Generally, capital investments support the acquisition, construction or repair/rehabilitation of housing, including transitional and supportive housing. This could also include, but not be limited to, the purchase or repurpose of existing properties for temporary housing or renovation of existing facilities to create spaces for self-isolation and greater physical distance.

8. Other

Activities other than those listed above may be considered eligible if: (i) they contribute directly to the Purpose of the Gift, and (ii) they are approved in advance by the CMAF, or its designate, in writing.

Eligible Expenses
The following Eligible Expenses are direct expenses related to Eligible Activities:

a) Personnel – Funding can be used to pay new or temporary personnel that are hired/contracted specifically for Eligible Activities. Personnel already paid from other sources via salaries, grants or other means should not be compensated with CMAF funds.

b) Supplies and services – Supplies and services that are immediately used to carry out Eligible Activities.

c) Equipment and technology – Funding may be used to purchase essential equipment or develop new equipment/technologies that are required for Eligible Activities. Funding may also be used to rent/lease major equipment or buildings.

d) Financing – Funding may be used to rent, reopen or refurbish buildings or shelters. If warranted, funding may also be used for short-term financial assistance for housing or living expenses.

The following expenses are not Eligible Expenses for the purposes of this Agreement:

(a) General overhead expenditures incurred in the RECIPIENT's regular course of business, including salaries and other employment benefits of any employees,
(b) Any direct or indirect operating or administrative costs of the RECIPIENT, and
(c) Expenses for any other activities normally carried by the RECIPIENT.

The Gift is not intended to replace or displace existing sources of funding that may be provided by the provincial/territorial or federal governments. In particular, these funds are intended to complement funding provided through the Reaching Home program as part of the federal government's COVID-19 response plan.

SCHEDULE B – REPORTING OBLIGATIONS

The RECIPIENT shall deliver the following reports to the CMAF, or its designate, in a form satisfactory to the CMAF on the due dates set out below.

REPORT	DUE DATE	MINIMUM REQUIREMENTS
Use of Funds and Target Outcomes (Interim Report)	On or before August 6, 2020	• At a minimum, completed Tables 1 and 2 as set out in Schedule B.1, in a form satisfactory to the CMAF, including but not limited to, testimonials from one or more local residents receiving support through the Eligible Activity and photos, if appropriate and where possible.
Final Impact Report	On or before February 2, 2021	• At a minimum, completed Tables 1 and 2 as set out in Schedule B.1, in a form satisfactory to the CMAF, including but not limited to, testimonials from one or more local residents receiving support through the Eligible Activity and photos, if appropriate and where possible.

Please see Table 1 and Table 2 provided for indicative purposes in Schedule B.1. Reporting templates will be sent to the Recipient by June 30, 2020.

SCHEDULE B.1

FOR ILLUSTRATIVE PURPOSES ONLY

Reporting templates with more detailed guidelines will be provided on or before June 30, 2020.

Municipality / Recipient	Corporation of the Town of Fort Frances
Project Title	Capital Investments in Temporary Housing
Project Description	Through providing support to the Rainy River District Social Services Administration Board, the Town will assist in the capital upgrades necessary to renovate the "Out of the Cold" shelter which provides temporary housing for vulnerable populations
Date	
CMAF Contract Reference #	CMAF-COVID-Contract# 2020- 00353
Recipient Reporting Contact	Dawn Galusha

Table 1. Expenditures by Eligible Activity

Interim Report – Fill in the description of the activity, population supported, project timeframe and associated expenses. Reference any additional funding support directed toward this activity.

Final Report – Reflect on the funded activities and actual expenses.

EXPENDITURES BY ELIGIBLE ACTIVITY						
Eligible Activity	**Interim Report**					**Final Report**
	Name of Activity	**Description of Activity**	**Population Supported**	**Activity Timeframe (MM/YY – MM/YY)**	**Eligible Expense ($)**	**Actual Expenses ($)**
Health and medical services						
Daytime services and facilities						
Client support services						
Coordination of resources and data collection						
Housing services						
Prevention and shelter diversion						
Capital investments						
Other*						
Total Expenditure ($)					**$**	**$**

SAMPLE

***Only if approved by the CMAF in accordance with Schedule A of the Agreement.

Table 2. Outcomes by Eligible Activity

Interim Report – Fill in the description of the activity, target outcome or output and target indicator.

Final Report – Reflect on the funded activities and report the actual impact. Provide comments regarding successes, challenges faced, remaining gaps or lessons learned.

Outcome: The change(s) in technology, systems, practices or behaviors the donation seeks to achieve.

Output: The products, services, or deliverables produced during the activity timeframe.

Indicator: The outcome metric(s) tracked to demonstrate impact of the donation, e.g. number of people supported or other relevant measure.

OUTCOMES BY ELIGIBLE ACTIVITY						
Eligible Activity	**Interim Report**				**Final Report**	
	Name of Activity	**Description of Activity**	**Target Outcome or Output**	**Target Indicator (# people supported)**	**Actual (# people supported)**	**Comments**
Health and medical services						
Daytime services and facilities						
Client support services						
Coordination of resources and data collection						
Housing services						
Prevention and shelter diversion						
Capital investments						
Other*						

SAMPLE

***Only if approved by the CMAF in accordance with Schedule A of the Agreement.

FONDATION AMC CMA FOUNDATION

COVID-19 Community Response Fund for Vulnerable Populations

On behalf of the CMA Foundation (CMAF), I am pleased to provide further details about our COVID-19 Community Response Fund for Vulnerable Populations.

The COVID-19 pandemic is an unprecedented challenge for those on the frontlines. The CMAF is proud to join forces with the Federation of Canadian Municipalities (FCM) to implement this emergency funding initiative.

The Canadian Medical Association and the CMAF are working hand in hand with CMA members, stakeholders and government officials to respond to this crisis. We believe strengthening communities is a fundamental part of supporting the health of all Canadians. To complement targeted grants to frontline health workers, hospitals and family medicine, the CMAF is providing direct funding to community recovery and stabilization efforts to support some of Canada's most vulnerable.

Your municipality has been designated to receive funding through this initiative. There is no need to apply. The donation is intended to address the unique needs of vulnerable people in your community in the context of COVID-19. The amount allocated to your community is outlined in the attached Gift Agreement, along with details regarding funding timelines, eligible activities and expenses, and reporting requirements. A payment transfer form is also attached.

While the CMAF will execute the transfer of funds to your municipality, FCM is acting as our designate to support the delivery of this initiative and will be your primary contact moving forward. Please return the signed and completed documents as outlined in the accompanying email and direct all inquiries to the FCM team at communityresponse@fcm.ca. They will be happy to assist as needed.

This pandemic demands that we rally together to stop the spread of COVID-19. Thank you for your ongoing efforts and commitment to local frontline response from coast-to-coast-to-coast. We hope this donation will help your community support and protect those in greatest need.

Stay well,

A Seymour

Allison Seymour
President, CMA Foundation

To learn more about the CMAF or our other funding initiatives, please visit www.cmaf-famc.org.

1410, pl. des tours Blair/Blair Towers Place, bur./Suite 500
Ottawa ON K1J 9B9

FORTFRANCES
BOUNDLESS

Treasury Report 2020/39

TO: Mayor Caul & Members of Council

FROM: Dawn Galusha, Treasurer

DATE: August 4, 2020

SUBJECT: Request for Reconsideration M.O.S.
Re: 820 Huffman Court (2020) Roll#5912-030-007-22424-0000

BACKGROUND

Attached is the Minutes of Settlement for the 2020 taxation year under section 39.1 of the *Assessment Act* from MPAC with regard to the following property:

- 820 Huffman Court- Residential (RT) CVA of $418,000 reduced to CVA of $366,000 for the 2020 taxation year resulting from updated structure and bathroom data.

The Municipality may object to the *Request for Consideration Minutes of Settlement* applications within 90 days after receiving the notice for the above referenced properties filed under Section 39.1 of the *Assessment Act* as listed on the M.O.S. applications. Municipal appeal date is October 8, 2020.

That total financial impact of the Minutes of Settlement is $989.75 consisting of a reduction of municipal revenue of $910.19 and education revenue of $79.56 as listed in the attached Write-offs/Tax Account Adjustment worksheet.

RECOMMENDATION

The Administration & Finance Executive Committee recommends that Council process the Minutes of Settlement for property located at 820 Huffman Court.

Council Approval of this Report will agree to the recommendation of the Administration & Finance Executive Committee to process the Minutes of Settlement for the property located at 820 Huffman Court.

Minutes of Settlement
2020 Tax Year
Results of Request for Reconsideration
Property Assessment Notice

MUNICIPAL PROPERTY ASSESSMENT CORPORATION
SOCIÉTÉ D'ÉVALUATION FONCIÈRE DES MUNICIPALITÉS

COLLEEN RAE KINNEAR
SCOTT MYLES KINNEAR
820 HUFFMAN CRT
FORT FRANCES ON P9A 0A4
CANADA

MPAC RECEIVED
JUN 29 2020
DATA PROCESSING FACILITY

Contact Us
Call: 1 866 296-MPAC (6722)
TTY 1 877 889-MPAC (6722)
Monday to Friday 8 a.m. to 5 p.m.
Email: enquiry@mpac.ca
Write: MPAC, 1340 Pickering Parkway
Suite 101, Pickering ON L1V 0C4

If you have any accessibility needs, please contact MPAC for assistance.

This Minutes of Settlement document contains the results of the Municipal Property Assessment Corporation's (MPAC) review of your Request for Reconsideration for the following property. You have a choice to accept or reject the revised property assessment below.

Owner name(s)	COLLEEN RAE KINNEAR SCOTT MYLES KINNEAR
Roll number	59-12-030-007-22424-0000
Property location and description	820 HUFFMAN CRT PLAN 48M382 LOT 12
Municipality/Local taxing Authority	Town of Fort Frances

CURRENT Property Assessment

Property Classification	**Current Value Assessed**	
	2012	**2016**
Residential (RT)	$410,914	$418,000
Total	**$410,914**	**$418,000**

Effective date: January 01, 2020

Property Classification	**Phase-in Assessment for Taxation Years**
	2020
Residential (RT)	$418,000
Total	**$418,000**

RECOMMENDED Property Assessment

Property Classification	**Current Value Assessed**	
	2012	**2016**
Residential (RT)	$410,914	$366,000
Total	**$410,914**	**$366,000**

Effective date: January 01, 2020

Property Classification	**Phase-in Assessment for Taxation Years**
	2020
Residential (RT)	$366,000
Total	**$366,000**

Why your property assessment changed

- **Updated structure data**
- **Updated bathroom data**
- **Updated structure data**

What this change means to you

Under Ontario's *Assessment Act*, the January 1, 2016 assessed value and classification of your property will be used to calculate your 2020 - 2020 property taxes. MPAC will introduce **any increase** in the assessed value of your property gradually, over a four-year period. This helps ensure property tax stability and predictability. MPAC will make **any decrease** in the assessed value of your property right away.

Please check (✓) one of the following:

☑ I accept my recommended assessment
I understand that **if I accept** the recommended assessment on page one of this form, my municipality or local taxing authority will use it to adjust my property taxes. It also has the option to object to the recommended assessment and appeal it to the Assessment Review Board (ARB).

OR

☐ I reject my recommended assessment
I understand that **if I reject** the recommended assessment on page one of this form, the assessed value of my property will stay the same as it appears on my 2016 Property Assessment Notice. I also understand that I may appeal MPAC's decision to the Assessment Review Board by September 14, 2020.

To complete your Request for Reconsideration, please check one of the above boxes, sign and send a copy of the entire document to MPAC in one of the following ways:

Email: enquiry@mpac.ca

Write: MPAC, 1340 Pickering Parkway, Suite 101, Pickering ON L1V 0C4

We must receive your response no later than July 31, 2020. If you do not provide a response by checking one of the above boxes, the 2016 assessment of your property will not change.

Signature of property owner/representative	Print name	Date (yyyy/mm/dd)
Scott K	Scott Kinneur	2020/06/19

Signature of MPAC representative	Print name	Date (yyyy/mm/dd)
Walter Veneruzzo	Walter Veneruzzo, Director, Valuation and Customer Relations	2020/06/16

Objection by Municipality or Local Taxing Authority

Signature of municipal representative	Print name and title	Date (yyyy/mm/dd)

Last date for a municipal appeal: October 8, 2020

PLEASE NOTE: *MPAC reserves the right to revise the phased-in assessment amounts included in this Minutes of Settlement if there are any changes in the law that affect the 2016 Current Value Assessment (CVA).*

Tax Year: 2020 **Roll Number: 59-12-030-007-22424-0000**

# Days	Year Affected	Roll #	Assessment Change	RTC/RTQ	Municipal Rate	School Rate	Municipal Amount	English Public	English Separate	French Public	French Separate	No Sup School	BIA	TOTAL
MOS														
	2020	3.7.22424	-52,000	RTEP	0.01750367	0.00153000	-910.19	-79.56						-989.75

Date: 2020-07-24 1:07:13 PM
User: hhatch

Batch: HH0724203722424

Town of Fort Frances
Distribution Summary
Property Taxes

Account Number	Account Description	Amount
1[illegible]01-0000-0040-10241	Taxes Receivable- Current	-$989.75
1[illegible]10-0150-0121-50018	Residential - EP	$910.19
10-010-0151-0121-50018	Residential - EP	$79.56
	Report Total:	$0.00

*** E N D O F R E P O R T ***

August 4, 2020

Report To: Mayor and Council

From: Aaron Bisson, Manager of Recreation and Culture

RE: Gas Tax Funding Application

For the past several years the Town of Fort Frances has been the beneficiary of the MTO Gas Tax Program funding which is designed to help municipalities improve Ontario's Transportation network and improve economic growth. We are eligible for funding in the amount of $71,372.00 for the 2019/2020 year.

There have been some beneficial changes to requirements within the program. The largest change being the elimination of the baseline spending requirement which will allow municipalities that have declining ridership/expenses/revenues to use the Gas Tax Funding allocated.

Please find the annual Gas Tax Funding Program Cover letter and Letter of Agreement attached from the Ministry of Transportation for our 2019/2020 funding program.

Recommendation

The Community Services Executive Committee recommends to Mayor and Council to authorize the submission of the 2019/2020 Gas Tax Funding Program to the Ministry of Transportation by Recreation and Culture Manager, Aaron Bisson.

Respectfully Submitted,

Aaron Bisson
Manager of Recreation and Culture

Council approval of this report will agree to the recommendation of the Community Services Executive Committee to submit the 2019/2020 Gas Tax Funding Program Application as outlined in this report.

Ministry of Transportation

Office of the Minister

777 Bay Street, 5th Floor
Toronto ON M7A 1Z8
416 327-9200
www.ontario.ca/transportation

Ministère des Transports

Bureau de la ministre

777, rue Bay, 5e étage
Toronto ON M7A 1Z8
416 327-9200
www.ontario.ca/transports

Ontario

MAR 12 2020

Mayor June Caul
Town of Fort Frances
320 Portage Avenue
Fort Frances ON P9A 3P9

Dear Mayor Caul:

RE: Dedicated Gas Tax Funds for Public Transportation Program

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This Letter of Agreement between the **Town of Fort Frances** (the "Municipality") and Her Majesty the Queen in right of the Province of Ontario, as represented by the Minister of Transportation for the Province of Ontario (the "Ministry"), sets out the terms and conditions for the provision and use of dedicated gas tax funds under the Dedicated Gas Tax Funds for Public Transportation Program (the "Program"). Under the Program, the Province of Ontario provides two cents out of the provincial gas tax to municipalities to improve Ontario's transportation network and support economic development in communities for public transportation expenditures.

The Ministry intends to provide dedicated gas tax funds to the Municipality in accordance with the terms and conditions set out in this Letter of Agreement and the enclosed Dedicated Gas Tax Funds for Public Transportation Program 2019/2020 Guidelines and Requirements (the "guidelines and requirements").

In consideration of the mutual covenants and agreements contained in this Letter of Agreement and the guidelines and requirements, which the Municipality has reviewed and understands and are hereby incorporated by reference, and other good and valuable consideration, the receipt and sufficiency of which are expressly acknowledged, the Ministry and the Municipality agree as follows:

1. To support local public transportation services in the Municipality, the Ministry agrees to provide funding to the Municipality under the Program to a maximum amount of up to **$71,372** ("the "Maximum Funds") in accordance with, and subject to, the terms and conditions set out in this Letter of Agreement and, for greater clarity, the guidelines and requirements.

2. Letter of Agreement and a copy of the authorizing municipal by-law(s) and, if applicable, resolution(s) for the Municipality to enter into this Letter of Agreement, provide the Municipality with **$53,529**; and any remaining payment(s) will be provided thereafter.

3. If another municipality authorizes the Municipality to provide local public transportation services on its behalf and authorizes the Municipality to request and receive dedicated gas

tax funds for those services also on its behalf, the Municipality will in the by-law(s) and, if applicable, resolution(s) described in section 2 confirm that the Municipality has the authority to provide those services and request and receive those funds.

4. The Municipality agrees that any amount payable under this Letter of Agreement may be subject, at the Ministry's sole discretion, to any other adjustments as set out in the guidelines and requirements.

5. The Municipality will deposit the funds received under this Letter of Agreement in a dedicated gas tax funds reserve account, and use such funds and any related interest only in accordance with the guidelines and requirements.

6. The Municipality will adhere to the reporting and accountability measures set out in the guidelines and requirements, and will provide all requested documents to the Ministry.

7. The Municipality agrees that the funding provided to the Municipality pursuant to this Letter of Agreement represents the full extent of the financial contribution from the Ministry and the Province of Ontario under the Program for the 2019/2020 Program year.

8. The Ministry may terminate this Letter of Agreement at any time, without liability, penalty or costs upon giving at least thirty (30) days written notice to the Municipality. If the Ministry terminates this Letter of Agreement, the Ministry may take one or more of the following actions: (a) cancel all further payments of dedicated gas tax funds; (b) demand the payment of any dedicated gas tax funds remaining in the possession or under the control of the Municipality; and (c) determine the reasonable costs for the Municipality to terminate any binding agreement(s) for the acquisition of eligible public transportation services acquired, or to be acquired, with dedicated gas tax funds provided under this Letter of Agreement, and do either or both of the following: (i) permit the Municipality to offset such costs against the amount the Municipality owes pursuant to paragraph 8(b); and (ii) subject to section 1, provide the Municipality with funding to cover, in whole or in part, such costs. The funding may be provided only if there is an appropriation for this purpose, and in no event will the funding result in the Maximum Funding exceeding the amount specified under Section 1.

9. Any provisions which by their nature are intended to survive the termination or expiration of this Letter of Agreement including, without limitation, those related to disposition, accountability, records, audit, inspection, reporting, communication, liability, indemnity, and rights and remedies will survive its termination or expiration.

10. This Letter of Agreement may only be amended by a written agreement duly executed by the Ministry and the Municipality.

11. The Municipality agrees that it will not assign any of its rights or obligations, or both, under this Letter of Agreement.

12. The invalidity or unenforceability of any provision of this Letter of Agreement will not affect the validity or enforceability of any other provision of this Letter of Agreement. Any invalid or unenforceable provision will be deemed to be severed.

13. The term of this Letter of Agreement will commence on the date of the last signature of this Letter of Agreement.

14. The Municipality hereby consents to the execution by the Ministry of this Letter of Agreement by means of an electronic signature.

If the Municipality is satisfied with and accepts the terms and conditions of this Letter of Agreement, please print it, secure the required signatures for it, and then return a fully signed copy, in pdf format, to the following email account:

MTO-PGT@ontario.ca

Sincerely,

Caroline Mulroney

Caroline Mulroney
Minister of Transportation

I have read and understand the terms and conditions of this Letter of Agreement, as set out above, and, by signing below, I am signifying the Municipality's consent to be bound by these terms and conditions.

Municipality

Date	Name (print): Title (head of council or authorized delegate): I have authority to bind the Municipality.
Date:	Name (print): Title (clerk or authorized delegate): I have authority to bind the Municipality.

Ministry of Transportation

Office of the Minister

777 Bay Street, 5th Floor
Toronto ON M7A 1Z8
416 327-9200
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Ministère des Transports

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Ontario

MAR 12 2020

Mayor June Caul
Town of Fort Frances
320 Portage Avenue
Fort Frances ON P9A 3P9

Dear Mayor Caul:

I am pleased to announce the launch of the 2019/2020 Gas Tax Program and to advise you of your funding allocation.

Our government is committed to working with municipalities to improve Ontario's transportation network and support economic growth. Investing in transit will reduce traffic congestion, create jobs and help businesses to develop and prosper.

The Town of Fort Frances will be eligible to receive an allocation of $71,372 for this program year.

In the coming days we will be forwarding the electronic versions of your Letter of Agreement, along with program guidelines, reporting forms and the Canadian Content for Transit Vehicle Procurement policy to the primary contact at the Town of Fort Frances.

Please return a scanned copy of the signed Letter of Agreement, in pdf format, the required supporting by-law (if applicable) and the 2019 Reporting Forms to **MTO-PGT@ontario.ca**.

In the 2019 Budget, the province committed to reviewing the current program, in consultation with municipalities, to identify opportunities for improvement. This review is informed by the goals of responsible planning and a more sustainable government to ensure taxpayer dollars are being spent as effectively as possible.

Following a careful consideration of municipal and transit stakeholder feedback, the ministry has implemented two changes that were identified as areas for improvement to the 2019/2020 program:

- The baseline spending requirement has been removed. This will allow municipalities with declining ridership/expenditures and declining fare revenues to use their Gas Tax funding.

- Municipalities are now permitted to submit a scanned copy of the municipal by-law instead of a certified copy. This will expedite the flow of funding and will reduce the administrative burden to municipalities.

Additional changes to the Gas Tax Program are being considered and are anticipated to be announced in 2020 for the 2020-2021 program year and beyond.

If you have any questions regarding the program, please contact Anita Hooper, Director, Strategic Investments & Programs Branch, at (416) 585-7637.

Sincerely,

Caroline Mulroney

Caroline Mulroney
Minister of Transportation

c. The Honourable Greg Rickford, MPP, Kenora—Rainy River

Date: August 5, 2020

Report To: Mayor & Council

From: Cody Vangel, Chief Building Official & Municipal Planner

Re: SPC01-2020: Mill Demolition – Site Plan Control

2670568 Ontario Ltd. locally referred to as Riversedge Developments Inc. has made application for the demolition of multiple buildings and structures located on the locally known "Mill Property". Demolition is intended to be conducted in three phases with completion in mid-2022. The applicant has been working closely with Town administration and other government agencies on deliverables for the demolition permits and is subsequently working towards a site plan control agreement with the Town. A formal application for site plan control has yet to be submitted at this time until determination if required or not.

Historically, mayor and council have decided whether certain projects require a Site Plan Control Agreement as determined on a case by case basis. If Council chooses to act upon a Site Plan Control Agreement, a by-law will be passed, deeming the project under Site Plan Control. Plans for the project have been submitted.

This matter was considered at the August 5, 2020 Planning and Development Executive Committee meeting where it was recommended to designate the demolition as a site plan control area. During this meeting it was also requested that administration canvas other municipalities to determine the use of a site plan agreement for demolition prior to entering said agreement.

Respectfully submitted

Cody Vangel, EIT
Chief Building Official & Municipal Planner

Council approval of this report will agree to the recommendation of the Planning and Development Executive Committee to designate the demolition of the Fort Frances mill under site plan control.

Date: August 5, 2020

Report To: Mayor & Council

From: Cody Vangel, Chief Building Official & Municipal Planner

Re: SPC06-2019 – Site Plan Control - 737 Scott Street

The Rainy River District Social Services Administration Board (RRDSSAB) is constructing a 28' by 48' storage garage with future plans to construct a parking lot at 737 Scott Street. The proposed development is intended to provide storage and parking support for the Ambulance Station which is situated directly across the street at 801 Scott Street.

In the fall of 2019, a building permit was issued to construct the foundation of the structure in attempt to get ahead of the cold weather, while the remaining site plan agreement works were finalized. The contractor was unable to beat the weather and construction ceased over the winter. The contractor has recently resumed works on the foundation and will be seeking the remaining permitting for the primary structure soon. It should be noted that the formal site plan control application and payment were submitted in July 2020.

In recent discussions with the applicant the following was made aware:

- The construction of the commercial parking lot may not take place for 1-3 years

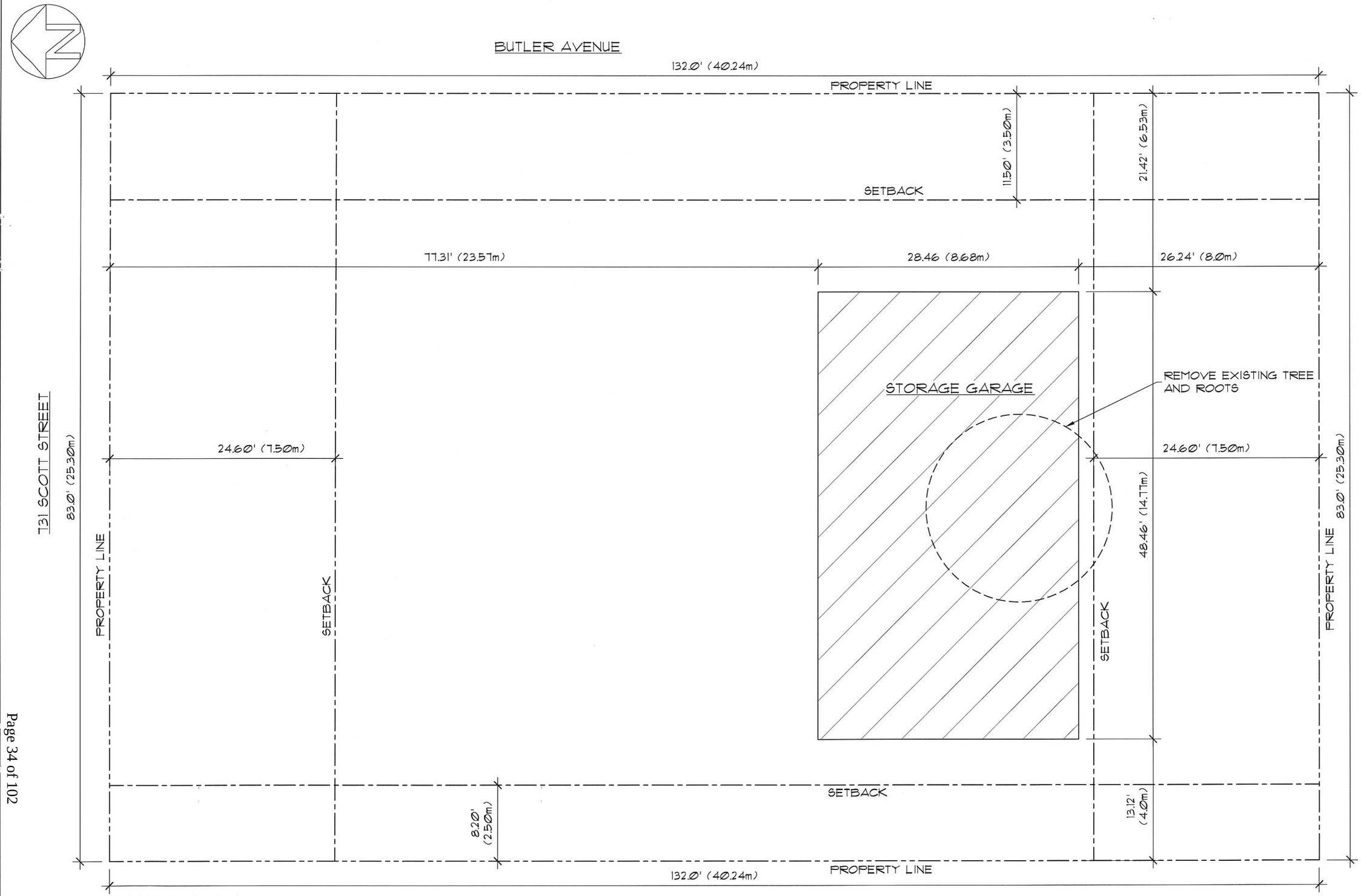
At the time the initial report was taken to PDEC, not all required deliverables for the Site Plan Agreement were prepared. However, in attempt to mitigate the project running into the fall season discussion was held regarding staging of the project. In the August 4, 2020 PDEC session it was recommended that the building permit for the primary structure be issued prior to finalizing the site plan agreement, and that the site plan agreement be finalized prior to constructing the parking lot.

Since August 4, 2020 draft required documents have been provided for review and will be taken to PDEC for a final recommendation.

Respectfully submitted

Cody Vangel, EIT
Chief Building Official & Municipal Planner

Council approval of this report will agree with the recommendation of the Planning and Development Executive Committee such that the building permit for the remaining storage garage structure be issued prior to finalizing the site plan control agreement, and that the site plan control agreement be finalized prior to constructing the associated parking lot.



SITE PLAN
SCALE: 1" = 10'-0"

MARK	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER/CONSTRUCTION	19.10.03	DZ

REVISION RECORD

SAULTEAUX CONSULTING & ENGINEERING
SITE 206-207 RR#2
FORT FRANCES, ONTARIO
P9A 3M3
1-807-274-7114

SCE

BCIN: 43291

SHEET TITLE: SITE PLAN
PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB 737 SCOTT ST., FORT FRANCES, ON

DRAWN BY:	DATE:
M.S.	19/07/03
CHECKED BY: T.K.B. D.Z.	PROJECT NO. 18-050
SHEET NO. SP1	REV. NO. -

AGENDA ITEM #5.6

1. GENERAL NOTES:

1.1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (AS AMENDED).

1.2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE THESE DRAWINGS.

1.3. DRAWINGS OF A LARGER SCALE SHALL TAKE PRECEDENCE OVER DRAWINGS OF A SMALLER SCALE.

1.4. THESE DRAWINGS ARE THE PROPERTY OF SAULTEAUX CONSULTING & ENGINEERING (SCE). UNAUTHORIZED REPRODUCTIONS OF THESE DRAWINGS IS PROHIBITED WITHOUT THE CONSENT OF SCE.

2. SOIL AND EXCAVATION:

2.1. EXCAVATION SHALL BE DOWN TO UNDISTURBED SOIL. REMOVE TOPSOIL AND ORGANIC MATERIAL.

2.2. WHERE ORGANIC MATERIAL IS ENCOUNTERED BELOW THE EXCAVATION LEVEL, EXCAVATE TO THE DEPTH OF THE MATERIAL AND REMOVE. REPLACE WITH GRANULAR "A" MATERIAL AND COMPACT TO 98% PROCTOR IN 6" LIFTS.

2.3. BEARING CAPACITY OF SOIL IS ASSUMED TO BE 75 KPa (1500 PSF) UNLESS OTHERWISE NOTED. FOOTINGS SHALL BEAR ON SIMILAR TYPE OF SOIL THROUGHOUT.

3. WOOD, FRAMING AND FASTENERS:

3.1. ALL STRUCTURAL FRAMING MEMBERS SHALL BE #1 OR #2 GRADE SPRUCE/PINE/FIR.

3.2. ALL WOOD IN CONTACT WITH CONCRETE SHALL EITHER BE PRESSURE TREATED OR PROTECTED BY 6 MIL CGSB VAPOUR BARRIER.

3.3. ALL WOOD IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED.

3.4. ROOF TRUSSES SHALL BE DESIGNED AND APPROVED BY A PROFESSIONAL ENGINEER LICENSED IN ONTARIO, AND ACCOMPANIED BY STAMPED DRAWINGS. BRACING SHALL BE INSTALLED AS PER TRUSS SHOP DRAWINGS. SUBMIT SHOP DRAWINGS TO SCE FOR REVIEW PRIOR TO FABRICATION.

3.5. ANCHOR BOLTS SHALL BE MIN. 1/2" DIA. x 7" LONG SIMPSON WEDGE-ALL ANCHORS OR EQUIVALENT, SPACED AT 48" O/C.

3.6. ALL WINDOW AND DOOR LINTELS TO BE MIN. 2 PLY 2x10, C/W SINGLE 2x6 CRIPPLE STUD ON EITHER SIDE OF OPENING, UNLESS OTHERWISE NOTED. WHERE 3 PLY HEADERS OR ENGINEERED LINTELS ARE NOTED, THEY SHALL BEAR ON DOUBLE CRIPPLE STUDS ON EITHER SIDE OF THE OPENING.

3.7. USE SIMPSON STRONG TIE TRUSS CLIPS (OR EQUIVALENT) WHERE REQUIRED. INSTALL AS PER MANUFACTURERS REQUIREMENTS.

4. STEEL:

4.1. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400 MPa. LAP ALL REINFORCING STEEL A MINIMUM 45 BAR DIAMETERS.

4.2. PROVIDE A MINIMUM OF 3" CONCRETE COVER OVER REINFORCING STEEL WHERE CONCRETE IS IN CONTACT WITH SOIL AND A MINIMUM 2" COVER ELSEWHERE.

5. CONCRETE:

5.1. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 32 MPa.

5.2. WHEN THE AIR TEMPERATURE IS BELOW 5°C, CONCRETE SHALL BE KEPT AT A TEMPERATURE OF NOT LESS THAN 10°C OR MORE THAN 25°C WHILE BEING MIXED AND PLACED.

5.3. FOR THE FIRST 72 HOURS AFTER PLACING, CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE OF NOT LESS THAN 10°C.

5.4. WHEN MIXING CONCRETE, NO FROZEN MATERIAL OR ICE SHALL BE USED.

6. ENVIRONMENTAL SEPARATION:

6.1. INSTALL EXTERIOR WALL AND ROOF CLADDING AS PER MANUFACTURERS REQUIREMENTS.

6.2. WALL CLADDING TO BE WESTMAN STEEL 26 GAUAGE TOUGH RIB PRE-FINISHED METAL (COLOUR TO BE SELECTED)

6.3. ROOF CLADDING TO BE WESTMAN 29 GAUGE TOUGH RIB METAL (GALVALUME).

6.4. EAVESTROUGH TO BE 5" CONTINUOUS ALUMINUM C/W DOWNSPOUTS AS SHOWN. (COLUR TO MATCH FASCIA)

6.5. EVERY VAPOUR BARRIER JOINT SHALL LAP NO LESS THAN 4" AND SHALL BE SEALED OR SUPPORTED BY FRAMING.

6.6. DRIP FLASHING SHALL BE APPLIED OVER EXTERIOR WALL OPENINGS WHERE THE VERTICAL DISTANCE FROM THE BOTTOM OF THE EAVE TO THE TOP OF THE TRIM IS MORE THAN 1/4 OF THE HORIZONTAL OVERHANG OF THE EAVE.

6.7. FLASHING SHALL BE INSTALLED SO THAT IT EXTENDS UPWARDS NOT LESS THAN 2" BEHIND THE AIR BARRIER AND FORMS A DRIP ON THE OUTSIDE EDGE, C/W END DAMS.

7. ENERGY EFFICIENCY REQUIREMENTS:

7.1. AS PER 1.1.1.1.(3)(d) OF SB-10, DIVISION 5, THE BUILDING IS NOT INTENDED FOR OCCUPANCY ON A CONTINUING BASIS DURING THE WINTER MONTHS. THEREFORE, IT IS EXEMPT FROM THE REQUIREMENTS OF SB-10 OF THE OBC (AS AMENDED).

7.2. RIGID INSULATION TO BE MIN. TYPE II, EXTRUDED POLYSTYRENE, WITH A MINIMUM COMPRESSIVE STRENGTH OF 15 PSI AND SHALL BE IN ACCORDANCE WITH CAN/ULC-S701 "THERMAL INSULATION, POLYSTYRENE, BOARDS AND PIPE COVERING".

8. OVERHEAD DOORS:

8.1. D1 AND D2 ARE TO BE OVERHEAD DOOR INSULATED SECTIONAL STEEL-BACK DOOR 470 C/W 2-24"X12" DOUBLE GLAZED WINDOWS.

8.2. D5 SHALL BE WAYNE DALTON GARAGE DOORS CLASSIC STEEL DOOR 9100 C/W 2-24"X12" DOUBLE GLAZED WINDOWS.

MARK	DESCRIPTION	YR/M/D	BY
—	ISSUED FOR TENDER/CONSTRUCTION	19/07/03	DZ
—			
—			
—			
—			

REVISION RECORD

SAULTEAUX CONSULTING & ENGINEERING
SITE 206-207 RR#2
FORT FRANCES, ONTARIO
P9A 3M3
1-807-274-7114

SCE

BCIN: 43291

SHEET TITLE: GENERAL NOTES

PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB
737 SCOTT ST., FORT FRANCES, ON

DRAWN BY: M.S.	DATE: 19/07/03
CHECKED BY: TKB/ D.Z.	PROJECT NO: 18-050
SHEET NO. 1	REV. NO. –

48'-0" O/O CONC.

A

4'-0"

1'-6" SF2

SLOPE TO DOOR

SLAB CONSTRUCTION
4" CONC. SLAB (32 MPa) R/W
10M BARS @ 24" O/C E/W
6 MIL CGSB VAPOUR BARRIER
2" RIGID INSULATION
MIN. 10" COMPACT GRANULAR
"B" MATERIAL
UNDISTURBED SOIL

SLOPE TO DOOR

1'-0" SF1

28'-0" O/O CONC.

1'-0" SF1

FOUNDATION NOTES:

SF1:
1'-0"x1'-6"D CONC. CLUB FOOTING R/W 2 ROWS 15M BARS T&B C/W 10M STIRRUPS @ 24" O/C

SF2:
1'-6"x1'-6"D CONC. CLUB FOOTING R/W 3 ROWS 15M BARS T&B C/W 10M STIRRUPS @ 24" O/C

SLOPE TO DOOR

1'-6" SF2

LICENSED PROFESSIONAL ENGINEER
T. K. BRUYERE
19/07/03
PROVINCE OF ONTARIO

OUTLINE OF 2" THICK RIGID INSULATION (TYP. ALL AROUND)

A

OVERLAP INSULATION @ CORNERS (TYP.)

FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

MARK	DESCRIPTION	TRM ID	BY
	ISSUED FOR TENDER/CONSTRUCTION	19/07/03	DZ

REVISION RECORD

SAULTEAUX CONSULTING & ENGINEERING
SITE 206-207 RR#2
FORT FRANCES, ONTARIO
P9A 3M3
1-807-274-7114

SCE

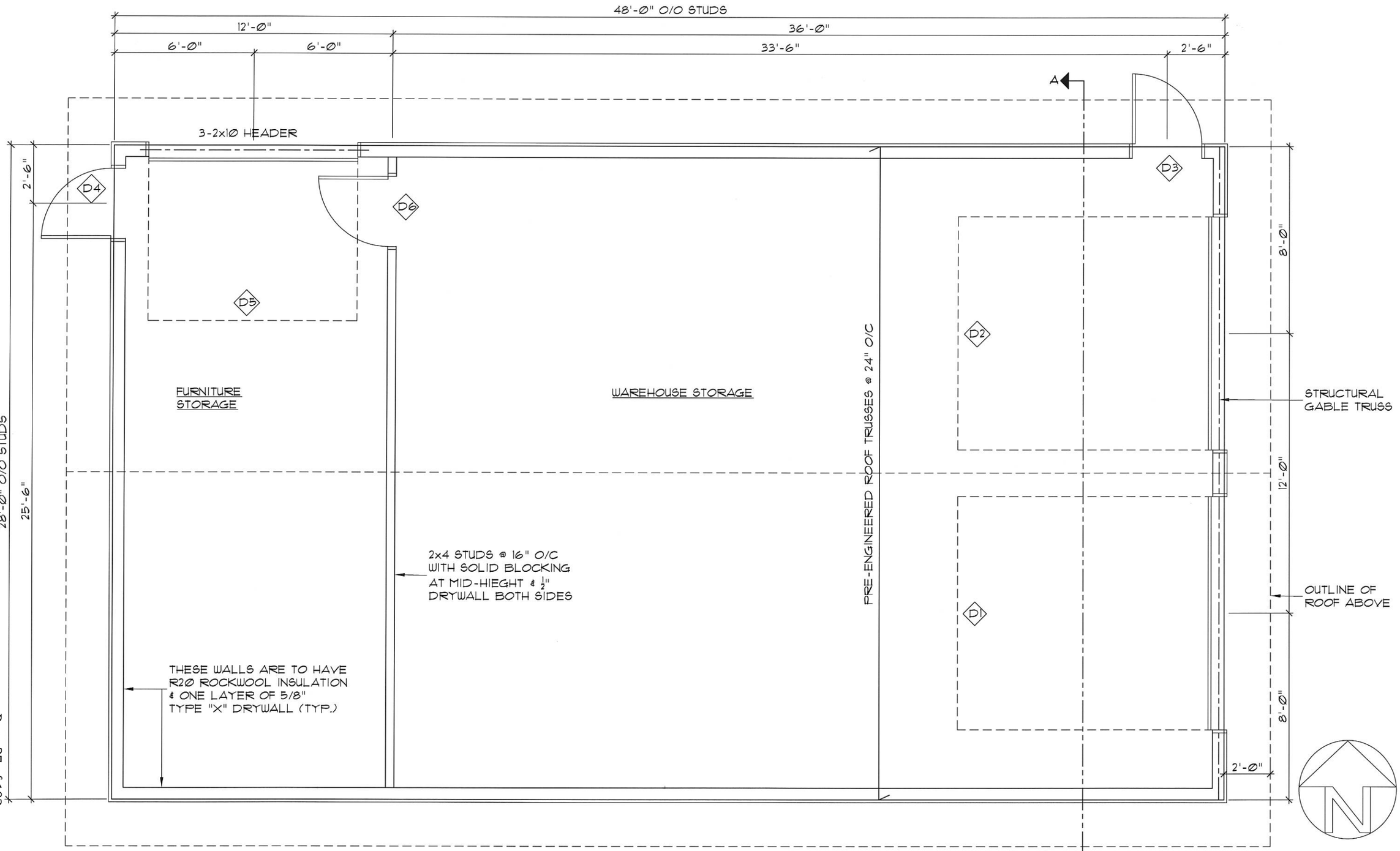
BCIN: 43291

SHEET TITLE: FOUNDATION PLAN

PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB 737 SCOTT ST., FORT FRANCES, ON

DRAWN BY: M.S.	DATE: 19/07/03
CHECKED BY: TKB. DZ.	PROJECT NO. 18-050
SHEET NO. 2	REV. NO. -

AGENDA ITEM #5.6



FLOOR PLAN

SCALE: 1/4" = 1'-0"

MARK	DESCRIPTION		BY
1	ISSUED FOR TENDER/CONSTRUCTION	19/07/03	DZ

REVISION RECORD

SAULTEAUX CONSULTING & ENGINEERING
SITE 206-207 RR#2
FORT FRANCES, ONTARIO
P9A 3M3
1-807-274-7114

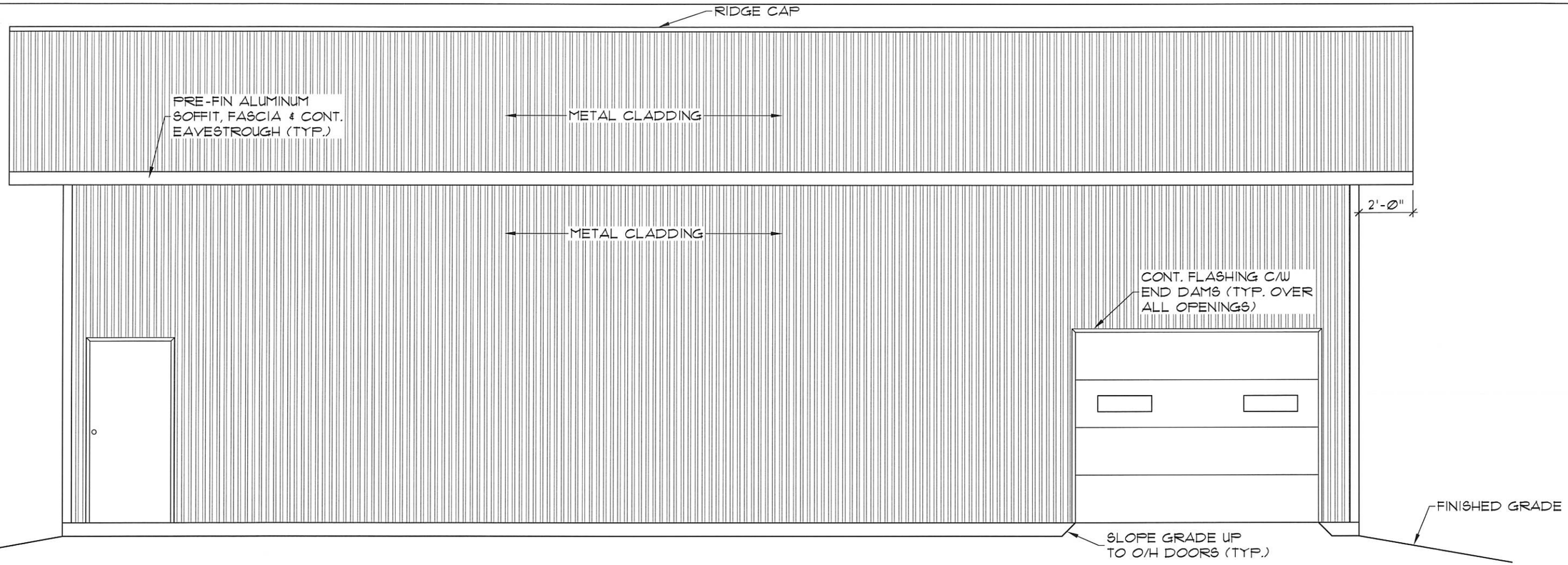
SCE

BCIN: 43291

SHEET TITLE: FLOOR PLAN

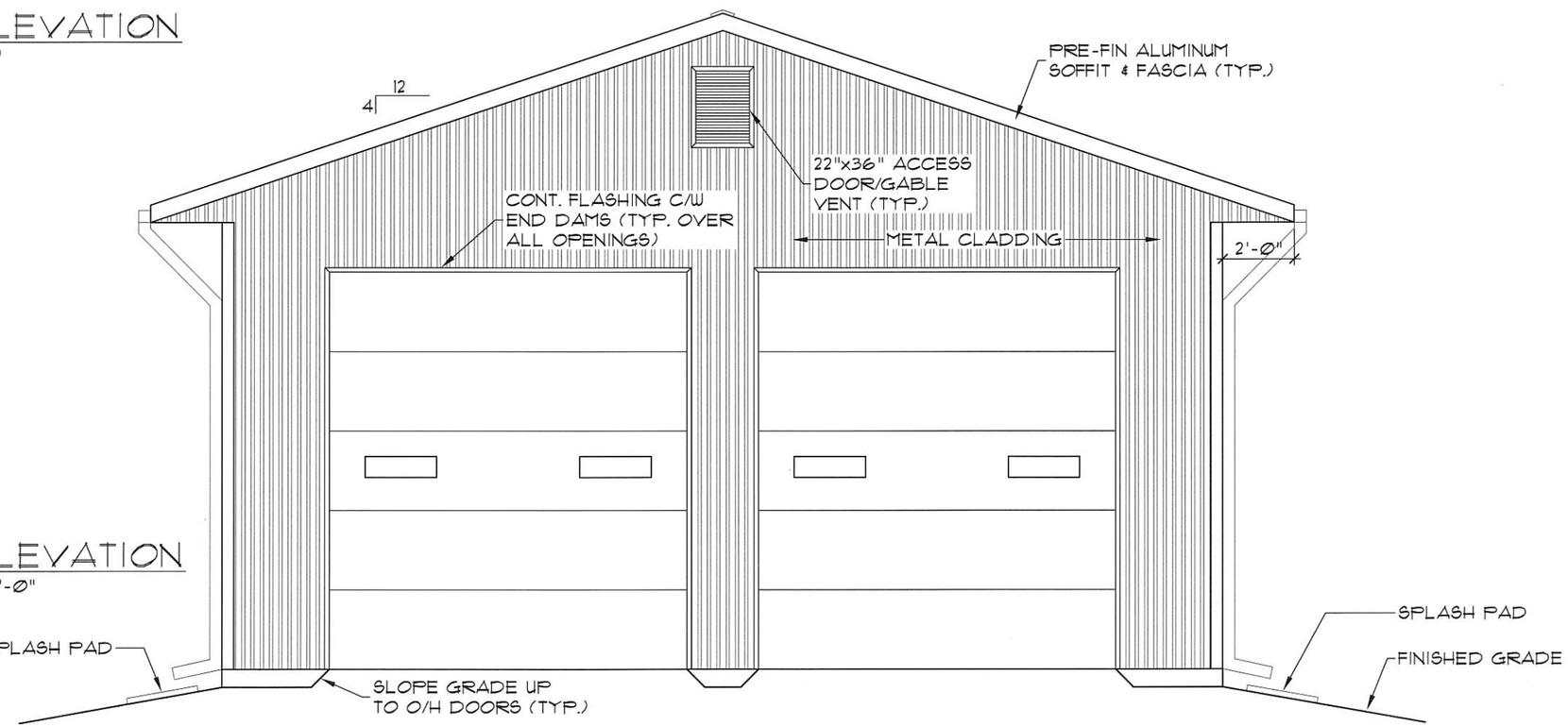
PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB 737 SCOTT ST., FORT FRANCES, ON

DRAWN BY:	DATE:
M.S.	19/07/03
CHECKED BY: T.K.B. D.Z.	PROJECT NO. 18-050
SHEET NO. 3	REV. NO. -



NORTH ELEVATION

SCALE: 1/4" = 1'-0"



EAST ELEVATION

SCALE: 1/4" = 1'-0"

MARK	DESCRIPTION	BY
	ISSUED FOR TENDER/CONSTRUCTION 19/07/03	DZ

REVISION RECORD

SAULTEAUX CONSULTING & ENGINEERING

SITE 206-207 RR#2
FORT FRANCES, ONTARIO
P9A 3M3
1-807-274-7114

SCE

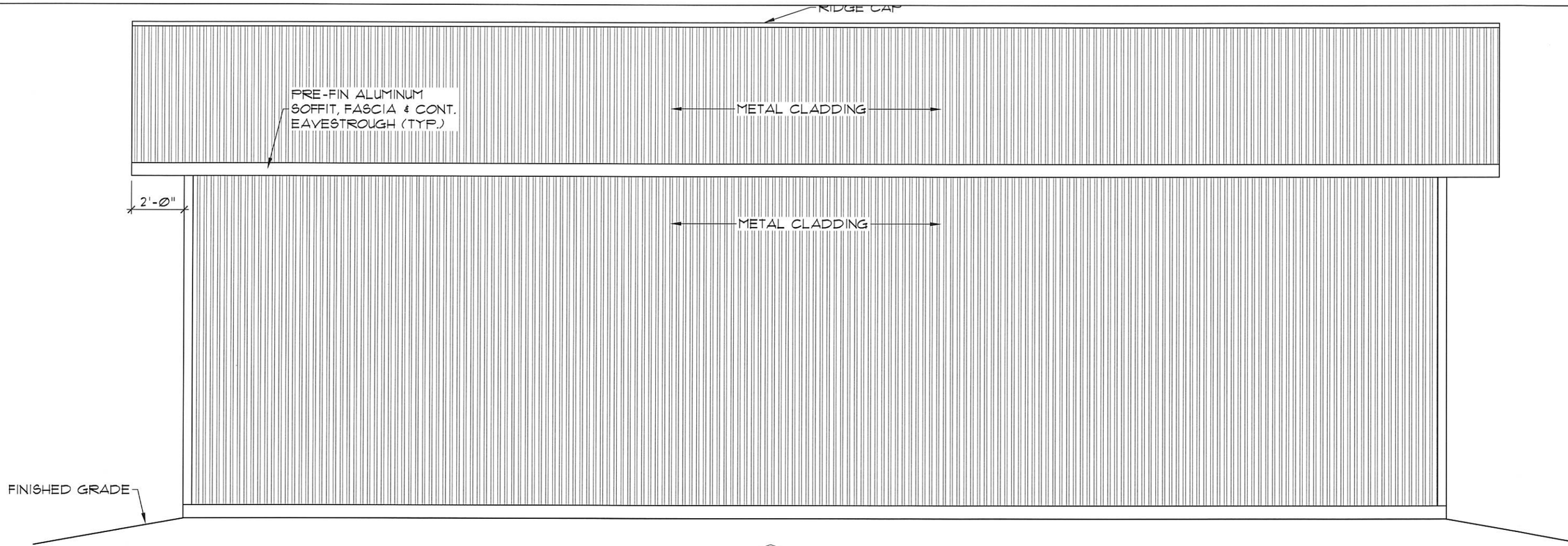
BCIN: 43291

SHEET TITLE: NORTH AND EAST ELEVATIONS

PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB 737 SCOTT ST., FORT FRANCES, ON

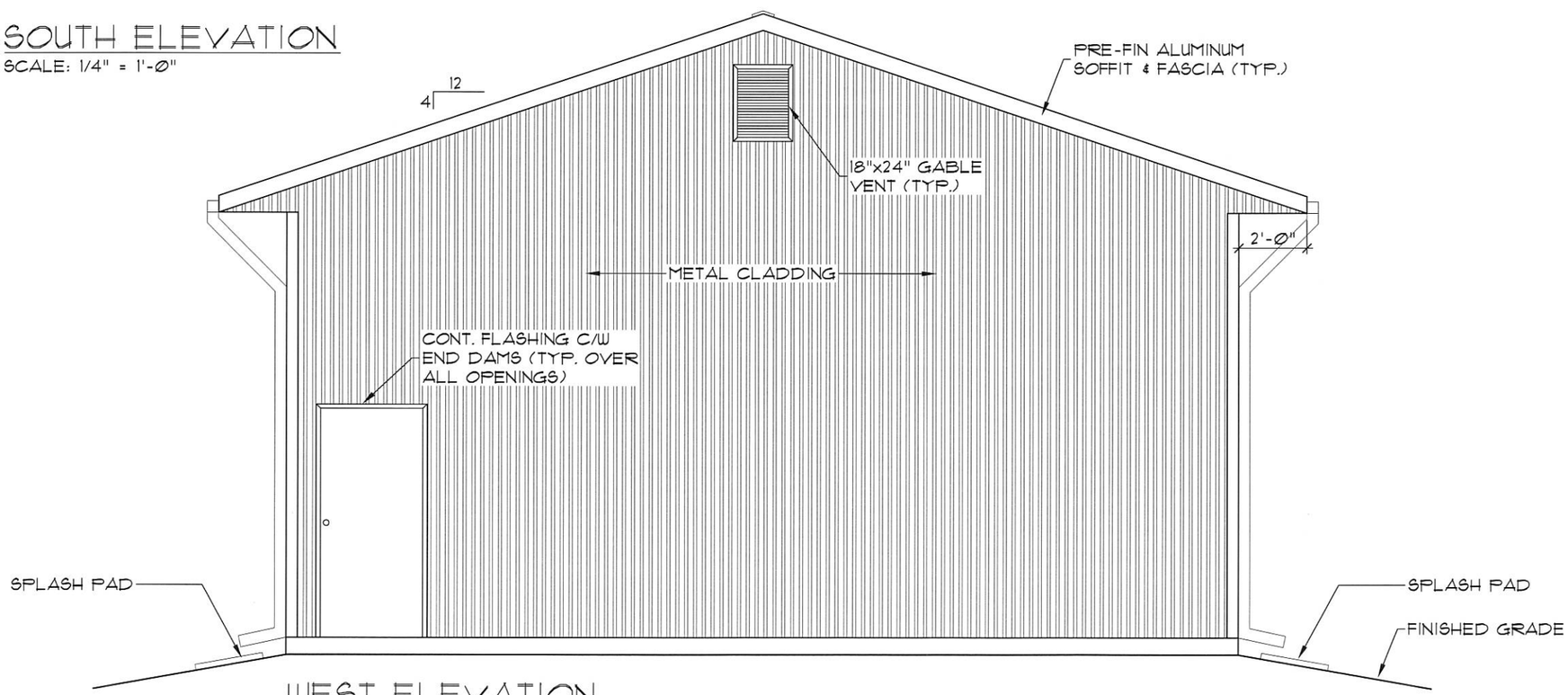
DRAWN BY: M.S.	DATE: 19/07/03
CHECKED BY: T.K.B. D.Z.	PROJECT NO. 18-050
SHEET NO. 4	REV. NO. -

AGENDA ITEM #5.6



SOUTH ELEVATION

SCALE: 1/4" = 1'-0"



WEST ELEVATION

SCALE: 1/4" = 1'-0"

MARK	DESCRIPTION	YR M D	BY
	ISSUED FOR TENDER/CONSTRUCTION	19 07 03	DZ

REVISION RECORD

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SITE 206-207 RR#2
FORT FRANCES, ONTARIO
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1-807-274-7114

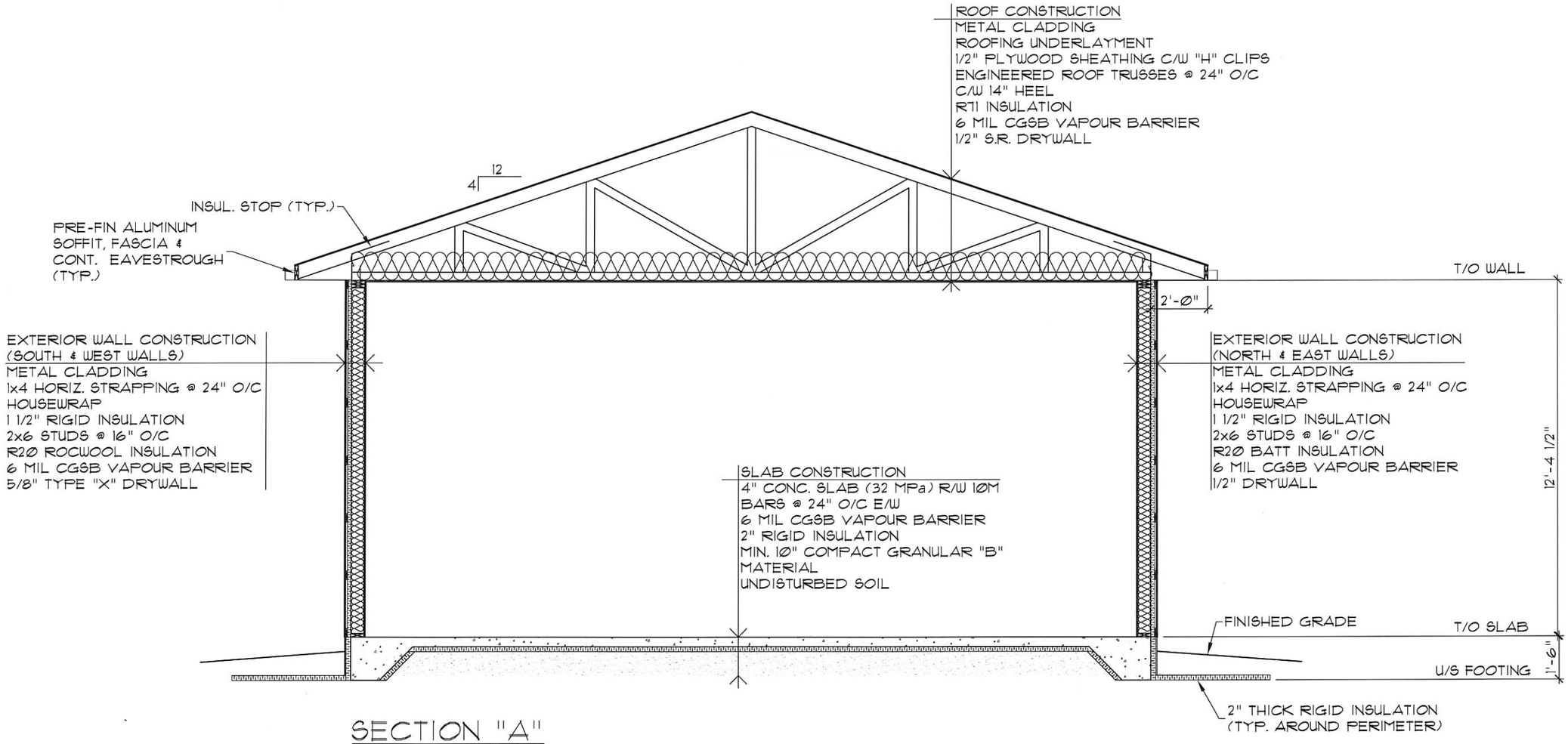
SCE

BCIN: 43291

SHEET TITLE: SOUTH AND WEST ELEVATIONS

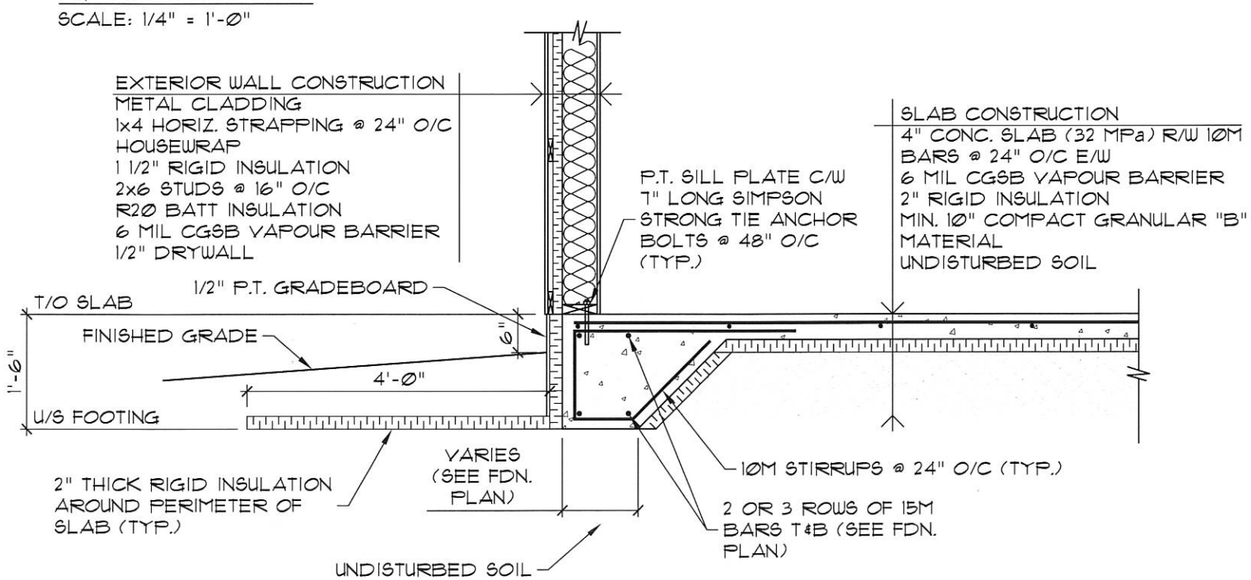
PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB 737 SCOTT ST., FORT FRANCES, ON

DRAWN BY: M.S.	DATE: 19/07/03
CHECKED BY: T.K.B. D.Z.	PROJECT NO. 18-050
SHEET NO. 5	REV. NO. -



SECTION "A"

SCALE: 1/4" = 1'-0"



FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"

MARK	DESCRIPTION	YR/MO/DY	BY
1	ISSUED FOR TENDER/CONSTRUCTION	19/07/03	DZ
1			
1			
1			
1			

REVISION RECORD

SAULTEAUX CONSULTING & ENGINEERING

SITE 206-207 RR#2
FORT FRANCES, ONTARIO
P9A 3M3
1-807-274-7114

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BCIN: 43291

SHEET TITLE: BUILDING SECTION A, FOUNDATION DETAIL

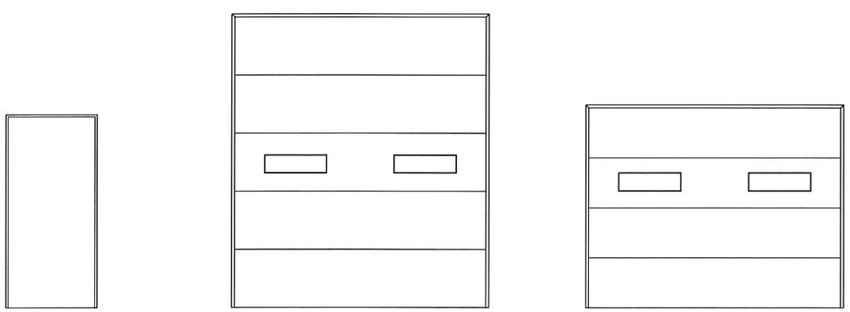
PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB 737 SCOTT ST., FORT FRANCES, ON

DRAWN BY: M.S.	DATE: 19/07/03
CHECKED BY: TKB. D.Z.	PROJECT NO. 18-050
SHEET NO. 6	REV. NO. -

AGENDA ITEM #5.6

DOOR SCHEDULE

DOOR								FRAME		
DOOR #	SIZE	THICKNESS	TYPE	MATERIAL	FINISH	GLAZING	DOOR HARDWARE	MATERIAL	FINISH	REMARKS
D1	10'-0"x11'-0" OVERHEAD	2"	B	INSULATED SECTIONAL STEEL	PRE-FINISHED	2-24"x12" SEALED GLASS	3" TRACK, STANDARD LIFT, 25,000 CYCLES, GALV. STEEL HINGES, BALL BEARING ROLLERS, WEATHERSTRIPPING, CHAIN HOIST, SLIDE LOCK W/ INTERLOCK SWITCH FOR OPERATOR	METAL CLAD WOOD	PRE-FINISHED	INSTALL LIFTMASTER MODEL RBH7511 3/4 HP. HEAVY DUTY JACKSHAFT OPERATOR C/W PHOTO EYES, SOLENOID BRAKE, CHAIN HOIST BACKUP AND TWO (2) REMOTES
D2	10'-0"x11'-0" OVERHEAD	2"	B	INSULATED SECTIONAL STEEL	PRE-FINISHED	2-24"x12" SEALED GLASS	3" TRACK, STANDARD LIFT, 25,000 CYCLES, GALV. STEEL HINGES, BALL BEARING ROLLERS, WEATHERSTRIPPING, CHAIN HOIST, SLIDE LOCK W/ INTERLOCK SWITCH FOR OPERATOR	METAL CLAD WOOD	PRE-FINISHED	INSTALL LIFTMASTER MODEL RBH7511 3/4 HP. HEAVY DUTY JACKSHAFT OPERATOR C/W PHOTO EYES, SOLENOID BRAKE, CHAIN HOIST BACKUP AND TWO (2) REMOTES
D3	3'-0"x7'-0"	1 3/4"	A	HOLLOW METAL INSULATED	PAINT		LOCKSET, 1 1/2 PR. NRP HINGES, DOOR CLOSER, WEATHERSTRIPPING, DOOR SWEEP, THRESHOLD	PRESSED STEEL FRAME	PAINT	
D4	3'-0"x7'-0"	1 3/4"	A	HOLLOW METAL INSULATED	PAINT		LOCKSET, 1 1/2 PR. NRP HINGES, DOOR CLOSER, WEATHERSTRIPPING, DOOR SWEEP, THRESHOLD	PRESSED STEEL FRAME	PAINT	
D5	9'-0"x7'-0" OVERHEAD	2"	C	INSULATED SECTIONAL STEEL	PRE-FINISHED	2-24"x12" SEALED GLASS	STANDARD GARAGE DOOR HARDWARE	METAL CLAD WOOD	PAINT	LIFTMASTER 8165W OVERHEAD DOOR OPERATOR
D6	3'-0"x6'-8"	1 3/4"	A	HOLLOW METAL	PAINT		PASSAGE SET, 1 1/2 PR. HINGES	PRESSED STEEL FRAME	PAINT	



DOOR TYPES

MARK	DESCRIPTION	BY
	ISSUED FOR TENDER/CONSTRUCTION 19 10 03	DZ

REVISION RECORD

SAULTEAUX CONSULTING & ENGINEERING

SITE 206-207 RR#2
FORT FRANCES, ONTARIO
P9A 3M3
1-807-274-7114

SCE

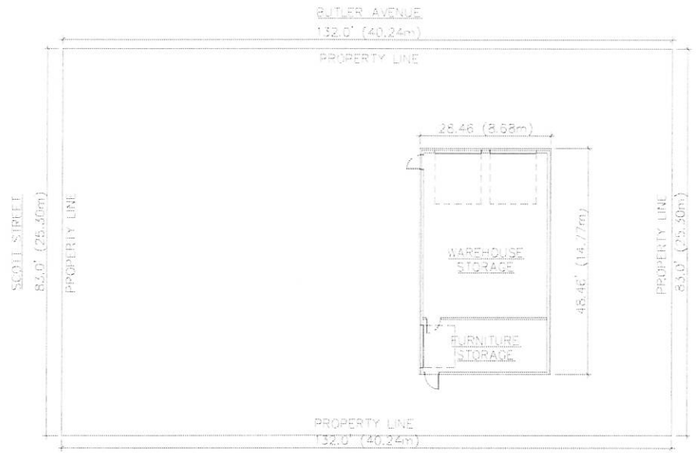
BCIN: 43291

SHEET TITLE: DOOR SCHEDULE

PROJECT TITLE: STORAGE GARAGE FOR RRDSSAB
737 SCOTT ST., FORT FRANCES, ON

DRAWN BY:	DATE:
M.S.	19/07/03
CHECKED BY: T.K.B. D.Z.	PROJECT NO. 18-050
SHEET NO. 7	REV. NO. -

AGENDA ITEM #5.6



N SITE PLAN
1/32"-1'-0"

GENERAL NOTES:

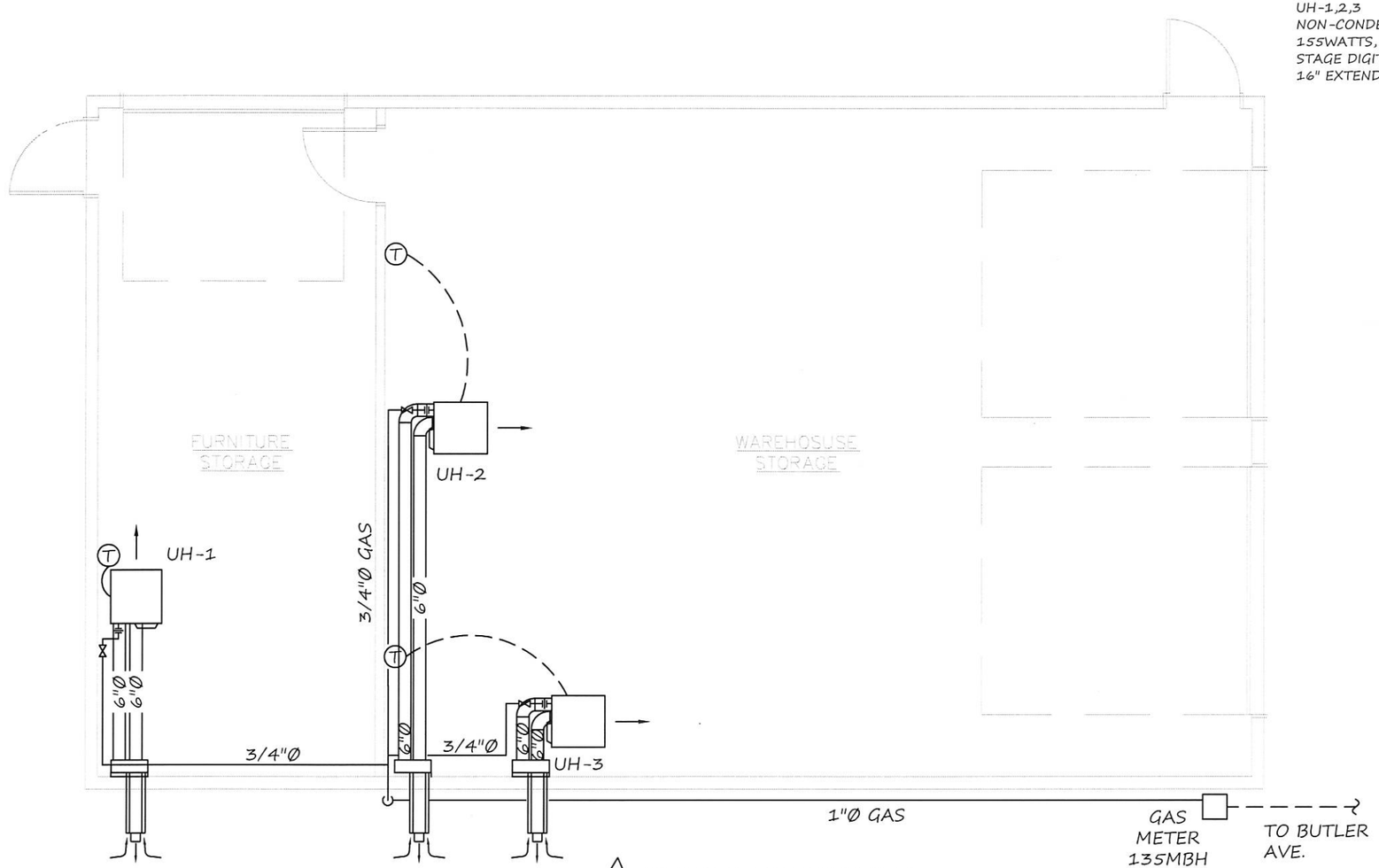
1. ALL MATERIAL SHALL BE NEW AND BE CSA APPROVED OR ULC LISTED.
2. THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS AND EQUIPMENT ARE INSTALLED IN FULL COMPLIANCE WITH THE CURRENT ONTARIO FIRE CODE AND ONTARIO BUILDING CODE.
3. PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOUR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
4. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES AND INSPECTIONS.
5. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR SEALING ALL PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES WITH RATED FIRE STOP RATED EQUAL TO THAT OF THE ADJACENT MATERIALS. ALL FIRE STOP MATERIALS AND INSTALLATION SHALL CONFORM TO UL 1479 AND ASTM E-814-10.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL INSTALLED EQUIPMENT FOR APPROVAL BY ENGINEER PRIOR TO ORDERING ANY EQUIPMENT.
8. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY OR ALL DEFECTS IN WORKMANSHIP WHICH MAY ARISE FOR A PERIOD OF 12 MONTHS FROM SUBSTANTIAL COMPLETION.
9. CONTRACTOR SHALL PROVIDE 3 HARD COPIES (OR DIGITAL PDF FORMAT) OF OPERATION AND MAINTENANCE MANUALS TO THE OWNER PRIOR TO FINAL PAYMENT IS REQUESTED. THE MANUALS WILL BE APPROVED BY THE ENGINEER.

PIPING NOTES:

1. MECHANICAL CONTRACTOR TO SUBMIT REQUEST FOR ACTION TO ENBRIDGE (UNION GAS) FOR INCREASED GAS LOAD TO EXISTING METER.
2. SUPPLY & INSTALL NEW GAS PIPING SUPPORTS AT SPACING AS SPECIFIED IN TABLE 6.2 IN CSA B149.1.
3. STEEL GAS PIPE TO ASTM A53/A53M, SCHEDULE 40, SCREWED. COPPER PIPE: TO ASTM B75M.
4. INSTALL PIPING & IDENTIFICATION IN ACCORDANCE TO APPLICABLE PROVINCIAL CODES, CAN/CSA-B149.1, SUPPLEMENTED AS SPECIFIED.
5. SLOPE PIPING DOWN IN DIRECTION TO FLOW TO LOW POINTS.
6. INSTALL DRIP POINTS AT LOW POINTS IN PIPING SYSTEM. PROVIDE COMPLETE WITH BLOWDOWN VALVE I.E. MANUAL SHUT-OFF VALVE AS SPECIFIED ABOVE. MINIMUM 3" IN LENGTH FROM TEE CONNECTION IN RISER TO TOP OF VALVE. MIN. 3/4"Ø. PROVIDE COMPLETE WITH THREADED END CAP.
7. FIELD ENDING OF PIPING TO BE PROHIBITED. NESTING OF BUSHINGS TO BE PROHIBITED. UTILIZE PROPERLY SIZED REDUCING FITTINGS
8. ABOVE GROUND GAS PIPING TO BE PRIMED AND PAINTED YELLOW ALONG ITS ENTIRE LENGTH.

EQUIPMENT NOTES:

UH-1,2,3 REZNOR MODEL UDAP NATURAL-GAS FIRED UNIT HEATER. 83% EFF. NON-CONDENSING. TITANIUM-STABILIZED HEAT EXCHANGER, 629CFM, 115V, 155WATTS, 24V CONTROL. 25"Lx26"Wx12"H, 60LBS. C/W 24V TRANSFORMER, SINGLE STAGE DIGITAL WALL THERMOSTAT, SET AT 60F. HORIZONTAL DIRECT-VENT KIT, 6"Ø, 16" EXTENDED FLUE FROM WALL & THIMBLE.



N HEATING & GAS PIPING PLAN
3/16"-1'-0"

No.	Revision/Issue	MM/DD/YY
0	ISSUED FOR PERMIT & TENDER	06/26/19

ABLE Energy Management & Design
Firm Name

www.ableenergy.ca
807-627-4259
info@ableenergy.ca

Drawing Description
HEATING PLAN & GAS PIPING FOR NEW WAREHOUSE/STORAGE GARAGE

Project Name and Address
STORAGE GARAGE-RAINY RIVER DISTRICT SOCIAL SERVICES ADMINISTRATION BOARD, FORT FRANCES, ON

Project: AE-1946
Date: JUNE 26, 2019
Scale: AS SHOWN
Sheet: M-1

2019 ABLE 24X36.dwg

PART 1 SCOPE OF WORK

SCOPE
1. WORK SHALL CONSIST OF THE SUPPLY AND INSTALLATION OF ALL NECESSARY EQUIPMENT, CONDUIT, WIRING AND CONNECTION FOR A COMPLETE INSTALLATION OF THE PLANS AND SPECIFICATIONS AS FOLLOWS:
   1. LIGHTING AND POWER DISTRIBUTION AND ASSOCIATED CONTROLS
   2. EMERGENCY LIGHTS AND EXIT SIGNS
   3. ALL INCOMING ELECTRICAL SERVICES AND HYDRO COORDINATION

DELIVERABLES TO THE ENGINEER:
1. COPY OF ELECTRICAL SAFETY AUTHORITY NOTICE OF INSPECTION AND COMPLETION CERTIFICATE.
2. CONTRACTOR LETTER OF COMPLETION TO CERTIFY WORK IS COMPLETE IN ACCORDANCE WITH THE DRAWINGS.

GENERAL
1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, SERVICES, TOOLS, EQUIPMENT, AND FIXTURES NECESSARY TO PERFORM AND COMPLETE IN A GOOD AND WORKMANLIKE MANNER THE WORK DESCRIBE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH, ALL LAWS, ORDINANCES, BUILDING CODES, RULES AND REGULATIONS APPLYING TO THE WORK, INCLUDING, BUT NOT LIMITED TO, THE ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT, ENVIRONMENTAL REGULATIONS AND THE OCCUPATIONAL SAFETY AND HEALTH ACT, AS AMENDED. CONTRACTOR SHALL HAVE CONTROL OVER, AND BE SOLELY RESPONSIBLE FOR, ALL MEANS, METHODS AND SEQUENCES FOR PERFORMING THE WORK. ANY DISCREPANCIES BETWEEN SUPPLEMENTARY SPECIFICATION SECTIONS OR DRAWING PACKAGES SHOULD BE NOTIFIED TO THE ENGINEER OF RECORD IN WRITING. ALL INFORMATION INCLUDED IN SUPPLEMENTARY DIVISION SECTIONS SHALL FORM PART OF THIS DIVISION SECTION AS APPLICABLE. ANY SMALL ITEMS REQUIRED TO FURNISH A COMPLETE INSTALLATION, BUT ARE NOT SPECIALLY CALLED OUT, ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT CONSIDERED AS EXTRA.
2. VERIFY ALL COUNT QUANTITIES PRIOR TO TENDER CLOSE.

REFERENCES
1. ONTARIO ELECTRICAL SAFETY CODE (LATEST EDITION)
2. ONTARIO BUILDING CODE
3. CSA C22.1, CANADIAN ELECTRICAL CODE, PART 1, SAFETY STANDARD FOR ELECTRICAL INSTALLATIONS.
4. CAN/CSA-22.3 NO. 1, OVERHEAD SYSTEMS.
5. CAN3-C235, PREFERRED VOLTAGE LEVELS FOR AC SYSTEMS, 0 TO 50,000 V.
6. CAN/ULC-S537 STANDARD FOR VERIFICATION OF FIRE ALARM SYSTEMS
7. CAN/ULC-S524-14 STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS

CARE, OPERATION AND START-UP
1. INSTRUCT OWNER'S REPRESENTATIVE AND OPERATING PERSONNEL IN THE OPERATION, CARE AND MAINTENANCE OF SYSTEMS, SYSTEM EQUIPMENT AND COMPONENTS.
2. AS REQUIRED TO MAINTAIN MANUFACTURER'S WARRANTY, 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 ALL ASPECTS OF ITS CARE AND OPERATION.

SUBMITTALS
1. ALL ALATERNATES OR SUBSTITUTIONS FOR PRODUCTS LISTED SHALL BE SUBMITTED TO THE PROJECT TEAM AT LEAST ONE (1) WEEK PRIOR TO TENDER CLOSE.
2. SUBMIT SHOP DRAWINGS, OR MANUFACTURERS PRODUCT DATA, FOR TRANSFORMERS, PANELBOARDS, BREAKERS, DISCONNECTS, RECEPTACLES, COVERPLATES, HEATING EQUIPMENT, EXIT AND EMERGENCY LIGHTING, LUMAIRE CUT SHEETS, FIRE ALARM, AND SPECIAL SYSTEMS, SUBMISSIONS SHALL BE IN THE SAME UNIT OF MEASURE AS USED ON THE DRAWINGS.
3. FOR LUMINAIRES, SUBMIT CUT SHEETS FROM THE MANUFACTURER WITH SPECIFIC CATALOGUE NUMBERS IN THE SAME ORDER AS THE LUMINAIRE SCHEDULE.
4. DETAILS OF CONSTRUCTION, DIMENSIONS, CAPACITIES, WEIGHTS, AND ELECTRICAL PERFORMANCE SHALL BE INDICATED ON THE SUBMITTALS.
5. WHERE APPLICABLE, WIRING OR SINGLE LINE DIAGRAMS SHALL BE PROVIDED.
6. EACH SHOP DRAWING SHALL BE STAMPED AS CORRECT BY THE CONTRACTOR TO INDICATE THEIR APPROVAL, AS THE TRADE PURCHASING THE ITEMS.
7. IF THE ABOVE HAS NOT BE MET, THE SHOP DRAWING WILL BE RETURNED AS "REJECTED".
8. THE REVIEW IS FOR THE SOLE PURPOSE OF IDENTIFYING GENERAL CONFORMANCE TO THE DESIGN CONCEPT. APPROVAL OF DESIGN DETAILS IS THE REPONSIBILITY OF THE CONTRACTOR. ENGINEER'S REVIEWS DOES NOT RELIEVE THE CONTRACTOR OF THEIR REQUIREMENTS TO MEET THE INTENT OF THE DESIGN DOCUMENTS.

QUALITY CONTROL
1. PROVIDE CSA CERTIFIED EQUIPMENT AND MATERIAL. WHERE CSA CERTIFIED EQUIPMENT AND MATERIAL IS NOT AVAILABLE, SUBMIT SUCH EQUIPMENT AND MATERIAL TO AUTHORITY HAVING JURISDICTION FOR APPROVAL BEFORE DELIVERY TO SITE.
2. SUBMIT CERTIFICATE OF ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION UPON COMPLETION OF WORK TO OWNER'S REPRESENTATIVE.
3. MANUFACTURER'S FIELD REPORTS: SUBMIT TO OWNER'S REPRESENTATIVE WITHIN SEVEN (7) WORKING DAYS OF REVIEW, VERIFYING COMPLIANCE OF WORK AND ELECTRICAL SYSTEM AND INSTRUMENTATION TESTING, INSPECT AND TEST THE FOLLOWING SYSTEMS TO DEMONSTRATE OPERATION OF SYSTEMS, DEMONSTRATE TO THE SATISFACTION TO THE OWNER, THEIR REPRESENTATIVES, AND ENGINEERING TEAM AS REQUIRED.:
   1. POWER DISTRIBUTION INCLUDING PHASING AND LOAD BALANCING WITH ALL NORMAL OPERATING LOADS. ADJUST AS REQUIRED.
   2. BRANCH CIRCUIT CONNECTIONS.
   3. LIGHTING AND LIGHTING CONTROLS
   4. EMERGENCY LIGHT AND EXIT SIGNS.
   5. MOTORS AND CONTROL EQUIPMENT
   6. FIRE ALARM SYSTEM.

FIELD QUALITY CONTROL
1. SINGLE LINE ELECTRICAL DIAGRAMS
   1. PROVIDE SINGLE LINE ELECTRICAL DIAGRAMS IN GLAZED FRAMES AS FOLLOWS:
      1. ELECTRICAL DISTRIBUTION SYSTEM: LOCATE IN MAIN ELECTRICAL ROOM.
      2. ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEMS: LOCATE IN POWER PLANT ROOMS.

PERMITS, FEES AND INSPECTION
1. SUBMIT TO ELECTRICAL SAFETY AUTHORITY AND SUPPLY AUTHORITY NECESSARY NUMBER OF DRAWINGS AND SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
2. PAY ASSOCIATED FEES.
3. THE ELECTRICAL ENGINEER OF RECORD WILL PROVIDE DRAWINGS AND SPECIFICATIONS REQUIRED BY ELECTRICAL INSPECTION DIVISION AND SUPPLY AUTHORITY AT NO COST
4. IF SPECIALIZED THIRD PARTY DESIGNERS ARE REQUIRED BY THE SUPPLY AUTHORITY, THE CONTRACTOR SHALL COORDINATE AND PAY FOR THIS SERVICE. THE ELECTRICAL ENGINEER OF RECORD SHALL SUPPLY INFORMATION REQUIRED FOR THE THIRF PARTY SERVICE TO COMPLETE THIER WORK.
5. NOTIFY ELECTRICAL ENGINEER OF RECORD OF CHANGES REQUIRED BY ELECTRICAL SAFETY AUTHORITY PRIOR TO MAKING CHANGES.
6. FURNISH CERTIFICATES OF ACCEPTANCE FROM ELECTRICAL SAFETY AUTHORITY OR AUTHORITIES HAVING JURISDICTION ON COMPLETION OF WORK TO ENGINEER OF RECORD

CO-ORDINATION
1. CO-ORDINATE WORK WITH WORK OF OTHER DIVISIONS TO AVOID CONFLICT.
2. LOCATE DISTRIBUTION SYSTEMS, EQUIPMENT, AND MATERIALS TO PROVIDE MINIMUM INTERFERENCE AND MAXIMUM USABLE SPACE.
3. LOCATE ALL EXISTING UNDERGROUND SERVICES AND MAKE ALL PARTIES AWARE OF THEIR EXISTENCE AND LOCATION.
4. WHERE INTERFERENCE OCCURS, ELECTRICAL ENGINEER OF RECORD MUST APPROVE RELOCATION OF EQUIPMENT AND MATERIALS REGARDLESS OF INSTALLATION ORDER.
5. NOTWITHSTANDING THE REVIEW OF SHOP DRAWINGS, THE ELECTRICAL CONTRACTOR MAY BE REQUIRED TO RELOCATE ELECTRICAL EQUIPMENT WHICH INTERFERES WITH THE EQUIPMENT OF OTHER TRADES, DUE TO LACK OF CO-ORDINATION BY THE CONTRACTOR THE COST OF THIS RELOCATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE OWNER'S REPRESENTATIVE SHALL DECIDE THE EXTENT OF RELOCATION REQUIRED.

CUTTING AND PATCHING
1. INFORM ALL OTHER DIVISIONS IN TIME, CONCERNING REQUIRED OPENINGS. WHERE THIS REQUIREMENT IS NOT MET, BEAR THE COST OF ALL CUTTING. OBTAIN WRITTEN APPROVAL OF STRUCTURAL ENGINEER BEFORE DRILLING ANY BEAMS OR FLOORS.
2. MAKE GOOD OF ALL TRADES AND FINISHES
3. COORDINATE LOCATION AND SIZE OF ALL ACCESS HATCHES. SUBMIT SHOP DRAWINGS FOR REVIEW FROM OWNER'S ARCHITECTURAL REPRESENTATIVE PRIOR TO INSTALLATION. SPECIALLIZED FINISHES MAY BE REQUIRED IN SPECIFIC AREAS

PROTECTION
1. PROTECT EXPOSED LIVE EQUIPMENT DURING CONSTRUCTION FOR PERSONNEL SAFETY.
2. SHIELD AND MARK ALL LIVE PARTS (I.E. "LIVE 120 VOLTS"), OR WITH APPROPRIATE VOLTAGE IN ENGLISH.
3. ARRANGE FOR INSTALLATION OF TEMPORARY DOORS FOR ROOMS CONTAINING ELECTRICAL DISTRIBUTION EQUIPMENT. KEEP THESE DOORS LOCKED EXCEPT WHEN UNDER DIRECT SUPERVISION OF ELECTRICIAN.

RECORD DRAWINGS
1. OBTAIN AND PAY FOR THREE SETS OF WHITE PRINTS. AS THE JOB PROGRESSES, MARK THESE PRINTS TO ACCURATELY INDICATE INSTALLED WORK. HAVE THE WHITE PRINTS AVAILABLE FOR INSPECTION AT THE SITE AT ALL TIMES AND PRESENT FOR SCRUTINY AT EACH JOB MEETING.
2. SHOW ON THE RECORD DRAWINGS THE INSTALLED INVERTS OF ALL SERVICES ENTERING AND LEAVING THE BUILDING AND THE PROPERTY. DIMENSION UNDERGROUND SERVICES AT KEY POINTS OF EVERY RUN IN RELATION TO THE STRUCTURE AND BUILDING.
3. INDICATE EXACT LOCATION OF ALL SERVICES FOR FUTURE WORK. SHOW AND DIMENSION ALL WORK EMBEDDED IN THE STRUCTURE.
4. SUBMIT RECORD DRAWINGS WITHIN 30 DAYS PRIOR TO START OF COMMISSIONING.

INSPECTION OF WORK
1. THE ENGINEER OF RECORD WILL MAKE PERIODIC VISITS TO THE SITE DURING CONSTRUCTION TO ASCERTAIN REASONABLE CONFORMITY TO THE DRAWINGS PLANS AND SPECIFICATIONS BUT WILL NOT EXECUTE QUALITY CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXECUTION OF HIS WORK IN CONFORMITY WITH THE CONSTRUCTION DOCUMENTS AND WITH THE REQUIREMENTS OF THE INSPECTION AUTHORITY.
2. THE ENGINEER OF RECORD SHALL BE NOTIFIED THROUGHOUT CONSTRUCTION OF THE PROGRESS OF THE PROJECT AND INVITED FOR PERIODIC VISITS. AT A MINIMUM THE ENGINEER OF RECORD SHALL VISIT AT ROUGH-IN COMPLETION (WITH ALL ELECTRICAL WORK EXPOSED), AND ONCE FINAL CONNECTIONS ARE MADE. IF THE PROJECT REQUIRED STAGING OF ELECTRICAL WORK, THE ENGINEER OF RECORD SHALL BE NOTIFIED BEFORE ELECTRICAL WORK IS CLOSED IN BY OTHER CONTRACTORS WORK.
3. PHOTOGRAPHS OF INSTALLATION PROGRESS SHALL BE DOCUMENTED BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD UPON REQUEST.

PART 1 SCOPE OF WORK (CONTINUED)

SCHEDULING OF WORK
1. WORK SHALL BE SCHEDULED IN PHASES AS PER OTHER DIVISIONS OF THE ARCHITECTURAL SPECIFICATIONS.
2. BECOME FAMILIAR WITH THE PHASING REQUIREMENTS FOR THE WORK AND COMPLY WITH THESE CONDITIONS.
3. NO ADDITIONAL MONIES WILL BE PAID FOR CONTRACTOR'S REQUIREMENT TO COMPLY WITH WORK PHASING CONDITIONS.
4. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE DELIVERY DATES OF ALL EQUIPMENT. MAJOR EQUIPMENT, INCLUDING LUMINAIRES, SHOULD BE INVESTIGATED AT THE START OF THE PROJECT AND LIST OF DELIVERY DATES SHALL BE PROVIDED WITHIN 7 DAYS OF THE START OF THE CONTRACT. THE OWNER SHALL RESERVE THE RIGHT TO RENEGOTIATE OR CANCEL THE CONTRACT AT NO COST, SHOULD THE DELIVERY DATES OF EQUIPMENT CARRIED NOT MEET THE PROJECT SCHEDULE.

FIRE RATING OF PENETRATIONS
1. MAINTAIN FIRE RATINGS AROUND CONDUITS PASSING THROUGH FLOORS, CEILINGS AND FIRE RATED WALLS.
2. USE 3M BRAND OR EQUAL FIRE BARRIER PRODUCTS AT EACH PENETRATION.
3. ACCEPTABLE PRODUCTS FOR FIRE BARRIER PRODUCTS SHALL BE 3M; #CP25 FIRE BARRIER CAULK, #303 PUTTY, #FS 195 WRAP AND #CS195 SHEET.
4. ACCEPTABLE MANUFACTURERS: NELSON, FIRE STOP SYSTEMS, 3M OR APPROVED EQUAL, MATERIAL OF SAME MANUFACTURER TO BE USED THROUGHOUT PROJECT.

PART 2 PRODUCTS

EXAMINATION OF SITE
1. THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE SITE CONDITIONION.
2. DEVIATIONS FROM THE PLANS DUE TO CONFLICTS ON SITE SHALL BE NOTIFIED TO THE ENGINEER IN WRITING PRIOR TO THE TENDOR
3. DO NOT SCALE THE DRAWINGS.
4. PRIOR TO STARTING WORK, EXAMINE THE SITE VERIFY THE LAYOUT AND ARANGEMENT OF ALL ELECTRICAL EQUIPMENT AND FEEDERS.
5. NOTIFY ENGINEER IN WRITING OF ANY CONFLICTS OR DISCREPANCIES TO THE DRAWINGS PRIOR TO THE TENDOR CLOSE.
6. CLAIMS FOR EXTRA PAYMENT AS A RESULT OF NOT THROUGHLY EXAMINING THE SITE WILL NOT BE GRANTED.

WARRANTIES
1. INSTALLATION OF ALL EQUIPMENT SHALL BE IN A MANNER TO MAINTAIN ALL MANUFACTURERS WARRANTIES.
2. WARRANTY ALL WORKMANSHIP AND LABOUR FOR A MINIMUM OF ONE (1) YEAR OUTSIDE OF MANUFACTURERS WARRANTIES.

ELECTRIC MOTORS, EQUIPMENT AND CONTROLS
1. SUPPY AND INSTALL AS INDICATED IN MOTOR, CONTROL AND EQUIPMENT SCHEDULES ON ELECTRICAL AND MECHANICAL DRAWINGS.
2. CONTROL WIRING AND CONDUIT IS PART OF THE ELECTRICAL SCOPE OF WORK, EXCEPT FOR CONDUIT, WIRING AND CONNECTIONS BELOW 50 V WHICH ARE RELATED TO CONTROL SYSTEMS SHOWN ON MECHANICAL DRAWINGS. MECHANICAL CONTROLS CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, WIRING AND CONNECTIONS BELOW 50V WHICH ARE RELATED TO THE CONTROL SYSTEMS AND SHALL COMPLY WITH THE REQUIREMENTS OF ELECTRICAL FOR STANDARD OF QUALITY.

FINISHES
1. SHOP FINISH METAL ENCLOSURE SURFACES BY APPLICATION OF RUST RESISTANT PRIMER INSIDE AND OUTSIDE, AND AT LEAST TWO COATS OF FINISH ENAMEL.
2. PAINT INDOOR SWITCHGEAR AND DISTRIBUTION ENCLOSURES LIGHT GREY TO EEMAC 2Y-1.

WIRING TERMINATIONS
1. LUGS, TERMINALS, SCREWS USED FOR TERMINATION OF WIRING TO BE SUITABLE FOR EITHER COPPER OR ALUMINUM CONDUCTORS.

EQUIPMENT IDENTIFICATION
1. IDENTIFY ELECTRICAL EQUIPMENT WITH NAMEPLATES AND LABELS AS FOLLOWS:
   1. NAMEPLATES: LAMICOID 3 MM THICK PLASTIC ENGRAVING SHEET, BLACK FACE, WHITE CORE, MECHANICALLY ATTACHED WITH SELF TAPPING SCREWS. SIZES AS FOLLOWS:

SIZE 1	10 X 50MM	1 LINE	3MM HIGH LETTERS
SIZE 2	12 X 70MM	1 LINE	5MM HIGH LETTERS
SIZE 3	12 X 70MM	2 LINES	3MM HIGH LETTERS
SIZE 4	20 X 90MM	1 LINE	8MM HIGH LETTERS
SIZE 5	20 X 90MM	2 LINES	5MM HIGH LETTERS
SIZE 6	25 X 100MM	1 LINE	12MM HIGH LETTERS
SIZE 7	25 X 100MM	2 LINES	6MM HIGH LETTERS

   2. LABELS:
      1. EMBOSSED PLASTIC LABELS WITH 6 MM HIGH LETTERS UNLESS SPECIFIED OTHERWISE.
2. WORDING ON NAMEPLATES AND LABELS TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO MANUFACTURE.
3. ALLOW FOR AVERAGE OF TWENTY-FIVE (25) LETTERS PER NAMEPLATE AND LABEL.
4. IDENTIFICATION TO BE ENGLISH (AND FRENCH WHERE APPLICABLE).
5. NAMEPLATES FOR TERMINAL CABINETS AND JUNCTION BOXES TO INDICATE SYSTEM NAME AND VOLTAGE CHARACTERISTICS.
6. DISCONNECTS, STARTERS AND CONTACTORS: INDICATE EQUIPMENT BEING CONTROLLED AND VOLTAGE.
7. TERMINAL CABINETS AND PULL BOXES: INDICATE SYSTEM NAME AND VOLTAGE.
8. TRANSFORMERS: INDICATE CAPACITY, PRIMARY AND SECONDARY VOLTAGES AND TRANSFORMER NUMBER.
9. NAMEPLATE FOR EACH PANELBOARD SIZE 4 ENGRAVED AS INDICATED.
10. NAMEPLATE FOR EACH CIRCUIT IN DISTRIBUTION PANELBOARDS SIZE 2 ENGRAVED AS INDICATED.
11. COMPLETE CIRCUIT DIRECTORY WITH TYPEWRITTEN LEGEND SHOWING LOCATION AND LOAD OF EACH CIRCUIT.

WIRING IDENTIFICATION
1. IDENTIFY WIRING WITH PERMANENT IDENTIFYING MARKINGS, EITHER NUMBERED OR 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 CODE: TO CSA C22.1, CANADIAN ELECTRICAL CODE.
4. USE COLOUR CODED WIRES IN COMMUNICATION CABLES, MATCHED THROUGHOUT SYSTEM.

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.
4. COLOUR CODING TO MATCH EXISTING WHERE APPLICABLE.

FUSED SWITCHES RATED 600 AMPERES AND LESS
1. SWITCHES SHALL BE IN ACCORDANCE WITH NEMA, NEC, UL, AS SPECIFIED, AND AS SHOWN ON THE DRAWINGS.
2. SHALL BE NEMA CLASSIFIED HEAVY DUTY
3. SHALL BE HORSEPOWER (HP) RATED.
4. SHALL HAVE THE FOLLOWING FEATURES:
   1. SWITCH MECHANISM SHALL BE THE QUICK-MAKE, QUICK-BREAK TYPE.
   2. COPPER BLADES, VISIBLE IN THE OPEN POSITION.
   3. AN ARC CHUTE FOR EACH POLE.
   4. EXTERNAL OPERATING HANDLE SHALL INDICATE OPEN AND CLOSED POSITIONS, AND HAVE LOCK-OPEN PADLOCKING PROVISIONS.
   5. MECHANICAL INTERLOCK SHALL PERMIT OPENING OF THE DOOR ONLY WHEN THE SWITCH IS IN THE OPEN POSITION. DEFEATABLE TO PERMIT INSPECTION.
   6. FUSE HOLDERS FOR THE SIZES AND TYPES OF FUSES SPECIFIED.
   7. SOLID NEUTRAL FOR EACH SWITCH BEING INSTALLED IN A CIRCUIT WHICH INCLUDES A NEUTRAL CONDUCTOR.
   8. GROUND LUGS FOR EACH GROUND CONDUCTOR.
   9. ELECTRICALLY OPERATED SWITCHES SHALL ONLY BE INSTALLED WHERE SHOWN ON THE DRAWINGS.

ENCLOSURES
1. SHALL BE THE NEMA TYPES SHOWN ON THE DRAWINGS.
2. WHERE THE TYPES OF SWITCH ENCLOSURES ARE NOT SHOWN, THEY SHALL BE THE NEMA TYPES MOST SUITABLE FOR THE AMBIENT ENVIRONMENTAL CONDITIONS.
3. SHALL BE FINISHED WITH MANUFACTURER'S STANDARD GRAY BAKED ENAMEL PAINT OVER PRETREATED STEEL.
4. PROVIDE NEMA 2-S FOR ALL SPRINKLERED BUILDINGS

MOTOR RATED TOGGLE SWITCHES
1. TYPE 1, GENERAL PURPOSE FOR SINGLE-PHASE MOTORS RATED UP TO 1 HORSEPOWER.
2. QUICK-MAKE, QUICK-BREAK TOGGLE SWITCH WITH EXTERNAL RESET BUTTON AND THERMAL OVERLOAD PROTECTION MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF ACTUAL PROTECTED MOTOR.

CARTRIDGE FUSES
1. SHALL BE IN ACCORDANCE WITH NEMA FU 1, AND DESIGNED TO FIT THE ENCLOSURE THE FUSES ARE HOUSED IN, WITHOUT SPECIAL CLIPS. FUSE TYPES TO BE COORDINATED WITH THE SPECIFIC PIECE OF EQUIPMENT OR AS OUTLINED BELOW.
2. SERVICE ENTRANCE: CLASS L, TIME DELAY OR CLASS J, TIME DELAY UNLESS OTHERWISE NOTED
3. FEEDERS: CLASS L, TIME DELAY OR CLASS J, TIME DELAY UNLESS OTHERWISE NOTE
4. MOTOR BRANCH CIRCUITS: CLASS RK1 OR CLASS RK5, TIME DELAY. UNLESS OTHERWISE NOTED
5. OTHER BRANCH CIRCUITS: CLASS J, TIME DELAY UNLESS OTHERWISE NOTED
6. CONTROL CIRCUITS: CLASS CC

PANELBOARDS
1. PANELBOARDS: TO CSA C22.2 NO.29 AND PRODUCT OF ONE MANUFACTURER.
   1. INSTALL CIRCUIT BREAKERS IN PANELBOARDS BEFORE SHIPMENT.
   2. IN ADDITION TO CSA REQUIREMENTS, MANUFACTURER'S NAMEPLATE MUST SHOW FAULT CURRENT THAT PANEL, INCLUDING BREAKERS HAVE BEEN BUILT TO WITHSTAND.
2. 250 AND 600 V PANELBOARDS: BUS AND BREAKERS RATED FOR 10,000 AND 18,000 A (SYMMETRICAL) MINIMUM INTERRUPTING CAPACITY RESPECTIVELY OR AS INDICATED ON ELECTRICAL DRAWINGS.
3. SEQUENCE PHASE BUSSING WITH ODD NUMBERED BREAKERS ON LEFT AND EVEN ON RIGHT, WITH EACH BREAKER IDENTIFIED BY PERMANENT NUMBER IDENTIFICATION AS TO CIRCUIT NUMBER AND PHASE.
4. PANELBOARDS: MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED.
5. TWO KEYS FOR EACH PANELBOARD AND KEY PANELBOARDS ALIKE.
6. TIN PLATED ALUMINUM BUS WITH NEUTRAL OF SAME AMPERE RATING AS MAINS.
7. MAINS: SUITABLE FOR BOLT-ON BREAKERS.
8. TRIM WITH CONCEALED FRONT BOLTS AND HINGES.
9. TRIM AND DOOR FINISH: BAKED GREY ENAMEL.

PART 2 PRODUCTS (CONTINUED)

BREAKERS
1. BREAKERS: MOULDED CASE CIRCUIT BREAKERS.
2. BREAKERS WITH THERMAL AND MAGNETIC TRIPPING IN PANELBOARDS EXCEPT AS INDICATED OTHERWISE.
3. MAIN BREAKER: SEPARATELY MOUNTED ON TOP OR BOTTOM OF PANEL TO SUIT CABLE ENTRY. WHEN MOUNTED VERTICALLY, DOWN POSITION SHOULD OPEN BREAKER.
4. LOCK-ON DEVICES FOR 10% OF 15 TO 30 A BREAKERS INSTALLED AS INDICATED. TURN OVER UNUSED LOCK-ON DEVICES.
5. LOCK-ON DEVICES FOR RECEPTACLES, FIRE ALARM CLOCK OUTLET, EMERGENCY, DOOR SUPERVISORY, INTERCOM, STAIRWAY, EXIT AND NIGHT LIGHT CIRCUITS AS INDICATED.

BREAKERS GENERAL
1. BOLT-ON MOULDED CASE CIRCUIT BREAKER: QUICK- MAKE, QUICK-BREAK TYPE, FOR MANUAL AND AUTOMATIC OPERATION WITH TEMPERATURE COMPENSATION FOR 40°C AMBIENT.
2. COMMON-TRIP BREAKERS: WITH SINGLE HANDLE FOR MULTI-POLE APPLICATIONS.
3. MAGNETIC INSTANTANEOUS TRIP ELEMENTS IN CIRCUIT BREAKERS TO OPERATE ONLY WHEN VALUE OF CURRENT REACHES SETTING. TRIP SETTINGS ON BREAKERS WITH ADJUSTABLE TRIPS TO RANGE FROM 3-8 TIMES CURRENT RATING.
4. CIRCUIT BREAKERS WITH INTERCHANGEABLE TRIPS AS INDICATED.
5. CIRCUIT BREAKERS TO HAVE MINIMUM OF 10,000 A SYMMETRICAL RMS INTERRUPTING CAPACITY RATING.

THERMAL MAGNETIC BREAKERS
1. MOULDED CASE CIRCUIT BREAKER TO OPERATE AUTOMATICALLY BY MEANS OF THERMAL AND MAGNETIC TRIPPING DEVICES TO PROVIDE INVERSE TIME CURRENT TRIPPING AND INSTANTANEOUS TRIPPING FOR SHORT CIRCUIT PROTECTION.

OPTIONAL FEATURES
1. INCLUDE:
   1. SHUNT TRIP.
   2. AUXILIARY SWITCH.
   3. MOTOR-OPERATED MECHANISM C/W TIME DELAY UNIT.
   4. UNDER-VOLTAGE RELEASE.
   5. ON-OFF LOCKING DEVICE.
   6. HANDLE MECHANISM.

BUILDING WIRES
1. CONDUCTORS: STRANDED FOR 10 AWG AND LARGER. MINIMUM SIZE: 12 AWG. INCREASE WIRE SIZE WHERE NEEDED TO MEET VOLTAGE DROP REQUIREMENTS.
2. COPPER AND ACM ALLOY CONDUCTORS: SIZE AS INDICATED, WITH 600 V INSULATION OF CROSS-LINKED ——THERMOSETTING POLYETHYLENE MATERIAL RATED RW90 XLPE AND RWU90 XLPE AS INDICATED. PROVIDE RWU90 XLPE RATED CABLE FOR UNDERGROUND WIRING, RELATED TO NEW SERVICE ENTRANCE FEEDERS AND SITE LIGHTING CIRCUITS.
3. COPPER CONDUCTORS: SIZE AS INDICATED, WITH THERMOPLASTIC INSULATION TYPE TWH RATED AT 600 V, TYPICALLY USED FOR INSULATED GROUND WIRES.
4. WIRING FOR 120V BRANCH CIRCUITS SHALL BE #12AWG UP TO 22M AND #10AWG UP TO 35M. INCREASE WIRE SIZES FOR THE FULL RUN LENGTH STARTING AT THE OVERCURRENT DEVICE. INCREASE WIRE SIZE TO LIMIT VOLTAGE DROP TO 3% WHILE CARRYING 80% OF THE CIRCUIT LOAD.

ARMOURED CABLES
1. CONDUCTORS: INSULATED, COPPER, SIZE AS INDICATED.
2. TYPE: AC90.
3. ARMOUR: INTERLOCKING TYPE FABRICATED FROM ALUMINUM STRIP.
4. CONNECTORS: STANDARD AS REQUIRED, COMPLETE WITH ANTI-SHORT RINGS.

CONTROL CABLES
1. TYPE LVT: 2 SOFT ANNEALED COPPER CONDUCTORS, SIZED AS INDICATED, WITH THERMOPLASTIC INSULATION, OUTER COVERING OF THERMOPLASTIC JACKET.
2. LOW ENERGY 300 V CONTROL CABLE: STRANDED ANNEALED COPPER CONDUCTORS SIZED AS INDICATED, WITH PVC INSULATION TYPE TW -40° C POLYETHYLENE INSULATION WITH SHIELDING OF TAPE COATED WITH PARAMAGNETIC MATERIAL WIRE BRAID OVER EACH CONDUCTOR AND OVERALL COVERING OF PVC JACKET.

OUTLET AND CONDUIT BOXES GENERAL
1. SIZE BOXES IN ACCORDANCE WITH CSA C22.1.
2. 102 MM SQUARE OR LARGER OUTLET BOXES AS REQUIRED FOR SPECIAL DEVICES.
3. GANG BOXES WHERE WIRING DEVICES ARE GROUPED.
4. BLANK COVER PLATES FOR BOXES WITHOUT WIRING DEVICES.
5. 347 V OUTLET BOXES FOR 347 V SWITCHING DEVICES.
6. COMBINATION BOXES WITH BARRIERS WHERE OUTLETS FOR MORE THAN ONE SYSTEM ARE GROUPED.

GALVANIZED STEEL OUTLET BOXES
1. ELECTRO-GALVANIZED STEEL SINGLE AND MULTI GANG FLUSH DEVICE BOXES FOR FLUSH INSTALLATION, MINIMUM SIZE 76 X 50 X 38 MM OR AS INDICATED. 102 MM SQUARE OUTLET BOXES WHEN MORE THAN ONE CONDUIT ENTERS ONE SIDE WITH EXTENSION AND PLASTER RINGS AS REQUIRED.
2. ELECTRO-GALVANIZED STEEL UTILITY BOXES FOR OUTLETS CONNECTED TO SURFACE-MOUNTED EMT CONDUIT, MINIMUM SIZE 102 X 54 X 48 MM.
3. 102 MM SQUARE OR OCTAGONAL OUTLET BOXES FOR LIGHTING FIXTURE OUTLETS.
4. 102 MM SQUARE OUTLET BOXES WITH EXTENSION AND PLASTER RINGS FOR FLUSH MOUNTING DEVICES IN FINISHED PLASTER WALLS.

MASONRY BOXES
1. ELECTRO-GALVANIZED STEEL MASONRY SINGLE AND MULTI GANG BOXES FOR DEVICES FLUSH MOUNTED IN EXPOSED BLOCK WALLS.

CONCRETE BOXES
1. ELECTRO-GALVANIZED SHEET STEEL CONCRETE TYPE BOXES FOR FLUSH MOUNT IN CONCRETE WITH MATCHING EXTENSION AND PLASTER RINGS AS REQUIRED.

FITTINGS - GENERAL
1. BUSHING AND CONNECTORS WITH NYLON INSULATED THROATS.
2. KNOCK-OUT FILLERS TO PREVENT ENTRY OF DEBRIS
3. CONDUIT OUTLET BODIES FOR CONDUIT UP TO 32 MM AND PULL BOXES FOR LARGER CONDUITS.
4. DOUBLE LOCKNUTS AND INSULATED BUSHINGS ON SHEET METAL BOXES.
5. DOUBLE SPLIT RINGS FOR AC-90 TERMINATIONS.

SURFACE MOUNT FITTINGS
1. EXPOSED CONDUITS AND FITTINGS TO BE LEGRAND WIREMOLD 500/700 SERIES STEEL RACEWAY OR EQUIVALENT LOW-PROFILE METALIC RACEWAY.

HANGERS AND SUPPORTS
1. SECURE EQUIPMENT TO HOLLOW OR SOLID MASONRY, TILE AND PLASTER SURFACES WITH LEAD ANCHORS OR NYLON SHIELDS.
2. SECURE EQUIPMENT TO POURED CONCRETE WITH EXPANDABLE INSERTS.
3. SECURE EQUIPMENT TO HOLLOW MASONRY WALLS OR SUSPENDED CEILINGS WITH TOGGLE BOLTS.
4. SECURE SURFACE MOUNTED EQUIPMENT WITH TWIST CLIP FASTENERS TO INVERTED T BAR CEILINGS. ENSURE THAT T BARS ARE ADEQUATELY SUPPORTED TO CARRY WEIGHT OF EQUIPMENT SPECIFIED BEFORE INSTALLATION.
5. SUPPORT EQUIPMENT, CONDUIT OR CABLES USING CLIPS, SPRING LOADED BOLTS, CABLE CLAMPS DESIGNED AS ACCESSORIES TO BASIC CHANNEL MEMBERS.
6. FASTEN EXPOSED CONDUIT OR CABLES TO BUILDING CONSTRUCTION OR SUPPORT SYSTEM USING STRAPS.
   1. ONE-HOLE STEEL STRAPS TO SECURE SURFACE CONDUITS AND CABLES 50 MM AND SMALLER.
   2. TWO-HOLE STEEL STRAPS FOR CONDUITS AND CABLES LARGER THAN 50 MM.
   3. BEAM CLAMPS TO SECURE CONDUIT TO EXPOSED STEEL WORK.
   4. STRAP AC-90 CABLE AT BOX LOCATION PLUS EVERY 900 MM.
7. SUSPENDED SUPPORT SYSTEMS.
   1. SUPPORT INDIVIDUAL CABLE OR CONDUIT RUNS WITH 6 MM DIA THREADED RODS AND SPRING CLIPS.
   2. SUPPORT 2 OR MORE CABLES OR CONDUITS ON CHANNELS SUPPORTED BY 6 MM DIA THREADED ROD HANGERS WHERE DIRECT FASTENING TO BUILDING CONSTRUCTION IS IMPRACTICAL.
8. FOR SURFACE MOUNTING OF TWO OR MORE CONDUITS USE CHANNELS AT 1.5 M ON CENTRE SPACING.
9. PROVIDE METAL BRACKETS, FRAMES, HANGERS, CLAMPS AND RELATED TYPES OF SUPPORT STRUCTURES WHERE INDICATED OR AS REQUIRED TO SUPPORT CONDUIT AND CABLE RUNS
10. ENSURE ADEQUATE SUPPORT FOR RACEWAYS AND CABLES DROPPED VERTICALLY TO EQUIPMENT WHERE THERE IS NO WALL SUPPORT.
11. DO NOT USE WIRE LASHING, WOOD BLOCKING, PLASTIC STRAP OR PERFORATED STRAP TO SUPPORT OR SECURE-RACEWAYS OR CABLES.
12. DO NOT USE SUPPORTS OR EQUIPMENT INSTALLED FOR OTHER TRADES FOR CONDUIT OR CABLE SUPPORT EXCEPT WITH PERMISSION OF OTHER TRADE AND APPROVAL OF OWNER'S REPRESENTATIVE.
13. INSTALL FASTENINGS AND SUPPORTS AS REQUIRED FOR EACH TYPE OF EQUIPMENT CABLES AND CONDUITS, AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

EXIT SIGNAGE AND EMERGENCY LIGHTS
1. REFER TO DRAWINGS FOR EMERGENCY LIGHTS AND BATTERY PACK SCHEDULES. VERIFY ALL COUNTS AND QUANTITIES PRIOR TO TENDER CLOSE.
2. SELF POWERED UNITS ARE NOT ACCEPTABLE WHERE DC CIRCUITS ARE SHOWN WITH REMOTE FIXTURES.
3. USE NO.10 AWG AS THE MINIMUM WIRE SIZE FROM BATTERY UNITS TO DC REMOTE FIXTURES.
4. LOCATE ALL EXIT SIGNS FOR MAXIMUM LINE OF SITE AND AVOID CONFLICTS WITH LIGHTING, MECHANICAL, AND STRUCTURAL ELEMENTS.
5. ENSURE THE NEW EMERGENCY BATTERY PACK IS AUTOMATICALLY ACTUATED UPON FAILURE OF POWER SUPPLY TO THE NORMAL LIGHTING IN THE AREA OF THE LIGHTING COVERED BY THE UNIT IN ACCORDANCE OESC 46-304.
6. EXIT SIGNS MUST BE CONTINUOUSLY ILLUMINATED AND CONSTRUCTED IN CONFORMANCE WITH SECTION 46 OF THE ONTARIO ELECTRICAL SAFETY CODE.

PART 2 PRODUCTS (CONTINUED)

LIGHT FIXTURES
1. REFER TO DRAWINGS FOR LUMINAIRE SCHEDULE. PROVIDE LIGHT FIXTURES AS OUTLINED WITH ALL ASSOCIATED FITTINGS, HANGERS, LAMPS, AND SUPPORTS.
2. ALTERNATE FIXTURES MUST BE EQUIVELENT IN ALL RESEPCTS (I.E. LENS, LUMEN PERFORMANCE, DISTRIBUTION, QANTITY, LOCATION, ETC). ALTERNATE FIXTURES MUST BE PROVIDED AT TIME OF TENDER CLOSE WITH AN ALTERNATE PRICE TO THE BASE BID TO SUBSTITUTE THE FIXTURES. THE TENDER PRICE WILL BE EVALUATED ON THE SPECIFIED FIXTURES, NOT THE ALTERNATES SUBMITTED.
3. COORDINATE ALL LOCATIONS OF FIXTURES FOR INTERFERANCES WITH OTHER TRADES TO AVOID CONFLICTS. THIS INCLUDES FIXTURES LOCATED IN MECHANICAL AND ELECTRICAL ROOMS. SUPPORT ALL T-BAR FIXTURES FROM STRUCTURE, IN OPPOSITE CORNERS, WITH INDEPENDANT HANGERS

WIRING DEVICES
1. THE OWNER RESERVES RIGHT TO RELOCATE RECEPTACLE SHOWN ON THE PLANS UP TO 3000MM IN ANY DIRECTION FREE OF CHARGE. COORDINATE ALL RECEPTACLES WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
2. LOCATE LIGHT SWITCHES ON LATCH SIDE OF DOOR, AND IN SEQUENCE ORDER OF LIGHTING DRAWINGS

RECEPTACLES
1. DUPLEX RECEPTACLES, CSA TYPE 5-15 R, 125 V, 15 A, U GROUND, TO: CSA-C22.2 NO.42 WITH FOLLOWING FEATURES:
   1. IVORY THERMOPLASTIC MOULDED HOUSING, SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING, BREAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES, EIGHT BACK WIRED ENTRANCES, FOUR SIDE WIRING SCREWS, TRIPLE WIPE CONTACTS AND RIVETTED GROUNDING CONTACTS, SPECIFICATION GRADE, HOSPITAL GRADE AS INDICATED.
2. SINGLE RECEPTACLES CSA TYPE 5-15 R, 125 V, 15 A, U GROUND WITH FOLLOWING FEATURES:
   1. IVORY THERMOPLASTIC MOULDED HOUSING, SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING, FOUR BACK WIRED ENTRANCES, 2 SIDE WIRING SCREWS.
3. OTHER RECEPTACLES WITH AMPACITY AND VOLTAGE AS INDICATED.
4. RECEPTACLES AND SWITCHES OF ONE MANUFACTURER THROUGHOUT THE PROJECT.

SWITCHES
1. 20 A, 120 V, SINGLE POLE, DOUBLE POLE, THREE-W-AY, FOUR-WAY SWITCHES AS INDICATED TO: CSA-C22.2 NO.55 AND CSA-C22.2 NO.111.
2. MANUALLY-OPERATED GENERAL PURPOSE AC SWITCHES WITH FOLLOWING FEATURES:
   1. TERMINAL HOLES APPROVED FOR NO. 10 AWG WIRE, SILVER ALLOY CONTACTS, UREA OR MELAMINE MOULDING FOR PARTS SUBJECT TO CARBON TRACKING, SUITABLE FOR BACK AND SIDE WIRING, WHITE TOGGLE, SPECIFICATION GRADE, HOSPITAL GRADE AS INDICATED.
3. TOGGLE OPERATED FULLY RATED FOR TUNGSTEN FILAMENT AND FLUORESCENT LAMPS, AND UP TO 80% OF RATED CAPACITY OF MOTOR LOADS.

COVER PLATES
1. COVER PLATES FOR WIRING DEVICES TO: CSA-C22.2 NO.42.1.
2. COVER PLATES FROM ONE MANUFACTURER THROUGHOUT PROJECT.
3. SHEET STEEL UTILITY BOX COVER FOR WIRING DEVICES INSTALLED IN SURFACE-MOUNTED UTILITY BOXES.
4. STAINLESS STEEL COVER PLATES AS INDICATED, THICKNESS 2.5 MM FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET BOX.
5. SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES.
6. NEMA 3R WEATHERPROOF LATCHING COVER WITH PAD LOCK HOLES AS INDICATED.
7. ALL WIRING DEVICE COVER PLATES TO BE LABELED USING CLEAR ADHESIVE STRIPS WITH BLACK TYPE IDENTIFYING PANEL AND CIRCUIT NUMBER FOR EACH DEVICE.

PLYWOOD BACKING
1. PROVIDE PLYWOOD BACKING FOR ALL SURFACE MOUNTED ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS. PLYWOOD TO BE 21MM
2. PAINT PLYWOOD WITH TWO COATS OF LIGHT GRAY ENAMEL FIRE RETARDANT PAINT.

PART 3 EXECUTION

NAMEPLATES AND LABELS
1. ENSURE MANUFACTURER'S NAMEPLATES, CSA LABELS AND IDENTIFICATION NAMEPLATES ARE VISIBLE AND LEGIBLE AFTER EQUIPMENT IS INSTALLED.

LOCATION OF OUTLETS
1. DO NOT INSTALL OUTLETS BACK-TO-BACK IN WALL; ALLOW MINIMUM 150 MM HORIZONTAL CLEARANCE BETWEEN BOXES.
2. CHANGE LOCATION OF OUTLETS AT NO EXTRA COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3000 MM, AND INFORMATION IS GIVEN BEFORE INSTALLATION.
3. LOCATE LIGHT SWITCHES ON LATCH SIDE OF DOORS. LOCATE DISCONNECT DEVICES IN MECHANICAL AND ELEVATOR MACHINE ROOMS ON LATCH SIDE OF DOOR.

CONDUIT AND CABLE INSTALLATION
1. INSTALL CONDUIT AND SLEEVES PRIOR TO POURING OF CONCRETE. SLEEVES THROUGH CONCRETE: SCHEDULE 40 STEEL PIPE, SIZED FOR FREE PASSAGE OF CONDUIT, AND PROTRUDING 50 MM.
2. IF PLASTIC SLEEVES ARE USED IN FIRE RATED WALLS OR FLOORS, REMOVE BEFORE CONDUIT INSTALLATION.
3. INSTALL CABLES, CONDUITS AND FITTINGS TO BE EMBEDDED OR PLASTERED OVER, NEATLY AND CLOSE TO BUILDING STRUCTURE SO FURRING CAN BE KEPT TO MINIMUM.
4. TEMPORARILY PLUG ALL SLEEVES THROUGHOUT CONSTRUCTION.
5. CONDUITS AND CABLES SHALL BE INSTALLED AT A MINIMUM OF 150MM FROM ANY HEATING OR DOMESTIC HOT WATER PIPING.
6. NO CONDUITS OR CABLING SHALL BE INSTALLED IN FLOOR SLAB, UNLESS SPECIFICALLY NOTED, OR WITHOUT APPROVAL OF THE STRUCTURAL AND ELECTRICAL ENGINEERS OF RECORD.

MOUNTING HEIGHTS
1. MOUNTING HEIGHT OF EQUIPMENT IS FROM FINISHED FLOOR TO CENTERLINE OF EQUIPMENT UNLESS SPECIFIED OR INDICATED OTHERWISE.
2. IF MOUNTING HEIGHT OF EQUIPMENT IS NOT SPECIFIED OR INDICATED, VERIFY BEFORE PROCEEDING WITH INSTALLATION.
3. INSTALL ELECTRICAL AT FOLLOWING HEIGHTS UNLESS INDICATED OTHERWISE.
   1. LOCAL SWITCHES: 1200 MM. (1050MM IN AODA APPLICATIONS)
   2. WALL RECEPTACLES:
      1. GENERAL: 450 MM.
      2. ABOVE TOP OF CONTINUOUS BASEBOARD HEATER: 200MM.
      3. ABOVE TOP OF COUNTERS OR COUNTER SPLASH BACKS: 175 MM.
      4. IN MECHANICAL ROOMS: 1400 MM.
   3. PANELBOARDS: AS REQUIRED BY CODE OR AS INDICATED.
   4. TELEPHONE AND INTERPHONE OUTLETS: 450 MM.
   5. WALL MOUNTED TELEPHONE AND INTERPHONE OUTLETS: 1400 MM.
   6. FIRE ALARM STATIONS: 1200 MM.
   7. FIRE ALARM BELLS: 2400 MM.
   8. TELEVISION OUTLETS: 300 MM.
   9. WALL MOUNTED SPEAKERS: 2400 MM.
   10. CLOCKS: 2400 MM.
   11. DOOR BELL PUSHBUTTONS: 1200 MM. (1050MM IN AODA APPLICATIONS)
   12. EXIT LIGHTS: 2400 MM.
   13. EMERGENCY LIGHTING HEADS: 2400 MM.

CO-ORDINATION OF PROTECTIVE DEVICES
1. ENSURE CIRCUIT PROTECTIVE DEVICES SUCH AS OVERCURRENT TRIPS, RELAYS AND FUSES ARE INSTALLED TO REQUIRED VALUES AND SETTINGS.

FIELD QUALITY CONTROL
1. ALL ELECTRICAL WORK TO BE CARRIED OUT BY QUALIFIED, LICENSED ELECTRICIANS OR APPRENTICES AS PER THE CONDITIONS OF THE PROVINCIAL ACT RESPECTING MANPOWER VOCATIONAL TRAINING AND QUALIFICATION. EMPLOYEES REGISTERED IN A PROVINCIAL APPRENTICES PROGRAM SHALL BE PERMITTED, UNDER THE DIRECT SUPERVISION OF A QUALIFIED LICENSED ELECTRICIAN, TO PERFORM SPECIFIC TASKS – THE ACTIVITIES PERMITTED SHALL BE DETERMINED BASED ON THE LEVEL OF TRAINING ATTAINED AND THE DEMONSTRATION OF ABILITY TO PERFORM SPECIFIC DUTIES.
2. THE ELECTRICAL WORK TO BE CARRIED OUT BY A CONTRACTOR WHO HOLDS A VALID CODE 1 ELECTRICAL CONTRACTOR LICENSE IN THE PROVINCE OF THE PROJECT LOCATION.
3. LOAD BALANCE:
   1. MEASURE PHASE CURRENT TO PANELBOARD 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.
   3. SUBMIT, AT COMPLETION OF WORK, REPORT LISTING PHASE AND NEUTRAL CURRENTS ON PANELBOARDS, DRY- CORE TRANSFORMERS AND MOTOR CONTROL CENTERS, OPERATING UNDER NORMAL LOAD. STATE HOUR AND DATE ON WHICH EACH LOAD WAS MEASURED, AND VOLTAGE AT TIME OF TEST.
   4. CONDUCT AND PAY FOR FOLLOWING TESTS:
   5. POWER GENERATION AND DISTRIBUTION SYSTEM INCLUDING PHASING, VOLTAGE, GROUNDING AND LOAD BALANCING.
   6. CIRCUITS ORIGINATING FROM BRANCH DISTRIBUTION PANELS.
   7. LIGHTING AND ITS CONTROL.
   8. MOTORS, HEATERS AND ASSOCIATED CONTROL EQUIPMENT INCLUDING SEQUENCED OPERATIONS OF SYSTEMS WHERE APPLICABLE.
   9. SYSTEMS: FIRE ALARM SYSTEM, COMMUNICATIONS.
4. FURNISH MANUFACTURER'S CERTIFICATE OR LETTER CONFORMING THAT ENTIRE INSTALLATION AS IT PERTAINS TO EACH SYSTEM HAS BEEN INSTALLED TO MANUFACTURER'S INSTRUCTIONS.
5. INSULATION RESISTANCE TESTING.
   1. MEGGER AND RECORD CIRCUITS, FEEDERS AND EQUIPMENT UP TO 350 V WITH A 500 V INSTRUMENT.
   2. MEGGER AND RECORD 350 – 600 V CIRCUITS, FEEDERS AND EQUIPMENT WITH A 1000 V INSTRUMENT.
   3. CHECK RESISTANCE TO GROUND BEFORE ENERGIZING AND RECORD VALUE.
6. PROVIDE INSTRUMENTS, METERS, EQUIPMENT AND PERSONNEL REQUIRED TO CONDUCT TESTS DURING AND CONCLUSION OF PROJECT.
7. SUBMIT TEST RESULTS FOR ENGINEER OF RECORD'S REVIEW AND INCLUDE IN COMMISSIONING MANUALS
8. ALL WORK SHALL BE COMPLETED TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE, AND REPAIRS. MINIMUM WORKING CLEARANCES SHALL BE IN ACCORDANCE WITH ALL CODES AND STANDARDS AND ANY AUTHORITY HAVING JURISDICTION, BUT AT A MINIMUM 1 METER SHOULD BE MAINTAINED IN AROUND ALL ELECTRICAL EQUIPMENT AND A MINIMUM HEADROOM OF 2.2M SHALL BE MAINTAINED.
9. ALL EQUIPMENT SHALL NOT BE LOCATED UNDERNEATH PIPES THAT MAY CONTAIN LIQUIDS (THIS INCLUDES CONDENSATE DRAINS). IF SPACE CONSIDERATIONS REQUIRE ELECTRICAL EQUIPMENT TO BE LOCATED UNDER SUCH PIPPING, THE ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING FOR EACH OCCURRENCE AND CONTAINMENT PANS WITH DRAIN PIPES TO FLOOR LEVEL SHALL BE PROVIDED BY THE CONTRACTOR.

CLEANING
1. KEEP A CLEAN WORK AREA. ALL TOOLS AND EQUIPMENT SHALL BE PUT AWAY AT THE END OF EACH SHIFT IN A LOCATION AGREED TO WITH THE OWNER. ALL GARBAGE TO BE DISPOSED OF AND PAID FOR BY THE CONTRACTOR. ALL RECYCLABLE MATERIAL TO BE RECYCLED APPROPRIATELY.
2. CLEAN AND TOUCH UP SURFACES OF SHOP-PAINTED EQUIPMENT SCRATCHED OR MARRED DURING SHIPMENT OR INSTALLATION, TO MATCH ORIGINAL PAINT.
3. CLEAN AND PRIME EXPOSED NON-GALVANIZED HANGERS, RACKS AND FASTENINGS TO PREVENT RUSTING.

SEISMIC REQUIREMENTS
1. PROVIDE SEISMIC RESTRAINT FOR ALL ELECTRICAL SYSTEMS IN CONFORMANCE WITH PROVINCIAL BUILDING CODES, ELECTRICAL SAFETY AUTHORITY, AND SEISMIC RESTRAINT SYSTEMS (SRS).
2. IF CLARIFICATION OF INSTALLATION IS REQUIRED, ENGAGE A STRUCTURAL ENGINEER, REGISTERED OR LICENSESD IN THE PROVINCE OF THE PROJECT LOCATION, TO CONFIRM THAT ELECTRICAL WORK IS COMPLETED WITH ALL AUTHORITIES ON SEISMIC RESTRAINT.
3. FOR LUMINAIRES IN SUSPENDED CEILINGS, SUPPORT FIXTURES INDEPENDENTLY FROM CEILING BY A MINIMUM OF TWO CHAINS BOLTED AT OPPOSING CORNERS OF THE FIXTURE AND SECURE TO THE BUILDING STRUCTURE IN ACCORDANCE WITH SRS.

MECHANICAL EQUIPMENT
1. THIS TRADE SHALL PROVIDE ALL REQUIRED DISTRIBUTION EQUIPMENT AND WIRING FOR A COMPLETE INSTLLATION OF ALL EQUIPMENT LISTED ON THE MECHANICAL DRAWINGS AND SPECIFICATIONS.
2. THIS INCLUDES A TERMINATING DISCONNECT SWITCH AND ALL MAINTENACNE RECEPTACLES REQUIRED FOR A CODE COMPLIANT INSTALLATION.
3. ALL ELECTRIC HEATING DEVICES, WIRING, AND ASSOCIATED CONTROL EQUIPMENT SHALL BE PROVIED BY THE ELECTRICAL CONTRACTOR.
4. VERIFY ALL MOTOR CONNECTIONS FOR PHASE ROTATION AS REQUIRED.

ELECTRICAL REQUIRED REPORTS

THE FOLLOWING REPORTS MUST BE SUBMITTED, IN WRITING, TO THE ENGINEER OF RECORD PRIOR TO FINAL OCCUPANCY SITE VISIT.

1. ESA CERTIFICATE LETTER
2. EMERGENCY LIGHTING TEST LETTER
3. SIGNED FIRE ALARM VERIFICATION REPORT
4. CONTRACTOR COMPLETION LETTER

DRAWING LIST

NUMBER	NAME
E000	SPECIFICATIONS
E001	LEGEND AND MAST DETAIL
E002	SINGLE LINE DIAGRAM & PANEL SCHEDULE
E003	SITE PLAN
E100	GROUND FLOOR POWER & SYSTEMS PLAN
E201	GROUND FLOOR REFLECTIVE CEILING PLAN

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REVISION SCHEDULE

No.	DESCRIPTION	DATE
0	Issued for Permit & Tender	2019-06-26

STAMP:

LICENSED PROFESSIONAL ENGINEER
Jun 27, 2019
C.D. A. MARTYN
100222614
PROVINCE OF ONTARIO

C.D. Martyn™ ENGINEERING LTD
739B Arlington Park Pl.
Kingston, Ontario K7M 8M8
O: 613 539-4199
F: 613 653-9424
CDMartyn.com

CLIENT:

PROJECT:
STORAGE GARAGE FOR RAINY RIVER DISTRICT SOCIAL SERVICES ADMINISTRATION BOARD
737 Scott Street, Fort Frances

PROJECT NO. 19-024

SHEET NAME: SPECIFICATIONS

DRAWN BY: MJ | CHECKED BY: CDM

REVISION: 0 2019-06-26

SCALE:

E000

ELECTRICAL SYMBOLS LEGEND

NOTE: STRIKE THROUGH INDICATES MOUNTED AT COUNTER HEIGHT AT 150MM ABOVE COUNTER OR STANDARD COUNTER BACKSPLASH TO CENTERLINE.

ELECTRICAL PANEL

xx — 120 VAC, 15A, 1Φ, 2W + GROUND, DUPLEX RECEPTACLE. MOUNTED 450MM AFF TO CENTERLINE. LETTER DENOTES TYPE IF APPLICABLE. GFI = GROUND FAULT INTERRUPTING. H = HOSPITAL GRADE. AFI = ARC FAULT INTERRUPTING. USB = COMES WITH USB CHARGING PORTS X2. F= DEDICATED FOR REFRIGERATOR. MW = DEDICATED FOR MICROWAVE. WP = GROUND FAULT INTERRUPTING IN WEATHERPROOF WHILE IN USE ENCLOSURE. TR = TAMPER RESISTANT

120 VAC, 15A, 1Φ, 2W + GROUND, SINGLE RECEPTACLE. MOUNTED IN CEILING

120 VAC,1Φ EQUIPMENT CONNECTION

120 VAC,1Φ EQUIPMENT CONNECTION c/w DISCONNECTION SWITCH

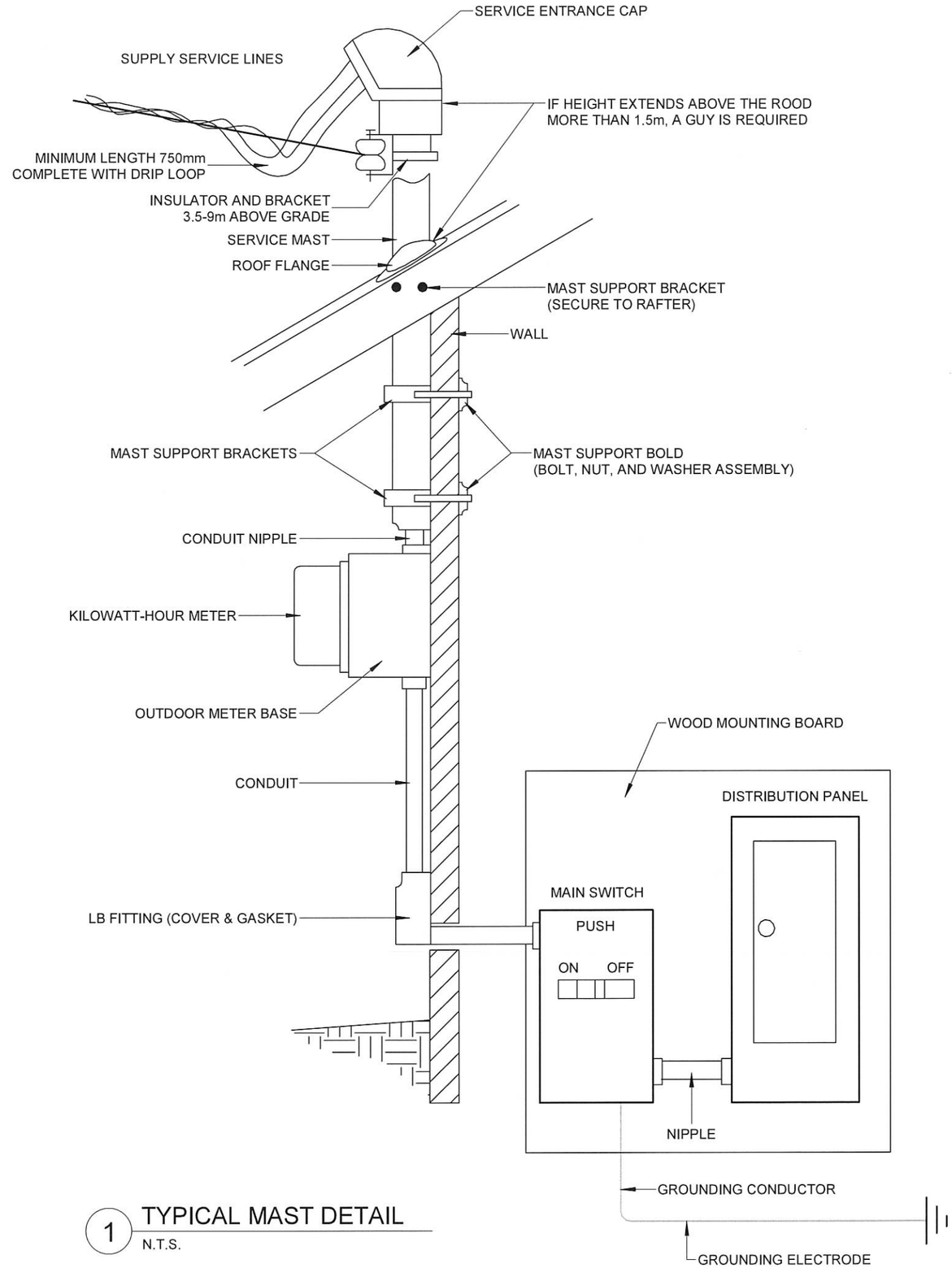
WALL MOUNTED "RUNNING MAN" STYLE EXIT SIGN WITH INTEGRAL BATTERY PACK AND TWO REMOTE HEADS. DARK QUADRANTS INDICATE LIT UP FACES. ARROWS INDICATE DIRECTIONAL ARROW ON SIGN FACE

CO — CARBON MONOXIDE ALARM

PX — WALL MOUNTED - OUTDOOR LUMINAIRE. LETTER DENOTES TYPE. SEE LUMINAIRE SCHEDULE FOR MODEL #

AX — LED LUMINAIRE. LETTER DENOTES TYPE. SEE LUMINAIRE SCHEDULE FOR MODEL #

$ — 120V, SINGLE POLE SWITCH



1 TYPICAL MAST DETAIL
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C. D. A. MARTYN
100222614 0029-19
PROVINCE OF ONTARIO

C.D. Martyn™ ENGINEERING LTD

739B Arlington Park Pl,
Kingston, Ontario K7M 8M8
O: 613 539-4199
F: 613 653-9424

PROJECT:

STORAGE GARAGE FOR RAINY RIVER DISTRICT SOCIAL SERVICES ADMINISTRATION BOARD

737 Scott Street, Fort Frances

PROJECT NO. 19-024

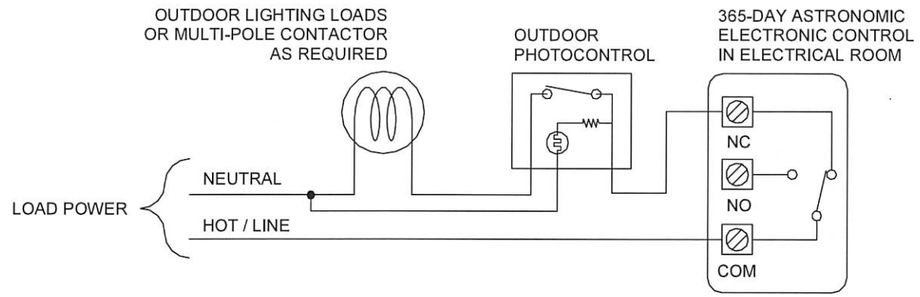
SHEET NAME:
LEGEND AND MAST DETAIL

DRAWN BY: MJ | CHECKED BY: CDM

REVISION: 0 2019-06-26

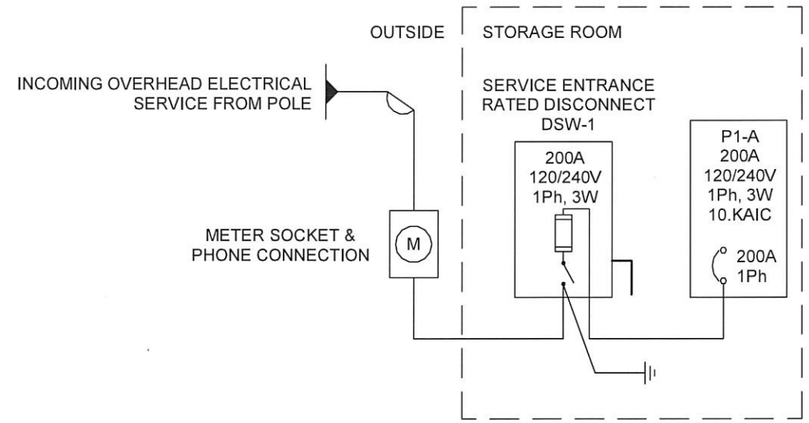
SCALE: As indicated

E001



SEQUENCE OF OPERATION

EXTERIOR LIGHTING CONTROL TO BE AUTOMATICALLY CONTROLLED IN ACCORDANCE WITH THE LATEST APPLICABLE ASHRAE 90.1 FOR EXTERIOR LIGHTING CONTROL COMPLETE WITH **HAND-OFF-AUTO SWITCH**. PHOTO-CONTROL TO TURN LUNINAIRES ON DURING ALL LOW LIGHT CONDITIONS. 365-DAY ASTRONOMIC ELECTRONIC CONTROL TO TURN ALL OUTDOOR LIMINAIRES OFF BETWEEN MIDNIGHT OR BUSINESS CLOSING, WHICHEVER IS LATER, AND BACK ON AT 6AM OR BUSINESS OPENING, WHICHEVER IS EARLIER. THE ABILITY TO BE ADJUSTED FOR NECESSARY SECURITY MEASURES AND AHJ'S ESTABLISHED REQUIREMENTS IS REQUIRED.



Panel: P1-A

Location: Storage
Mounting: Surface
Voltage: 120/240 Single

Phases: 1
Wires: 3
K.A.I.C. Rating: 10

Mains Type: Breaker
Minimum Mains Rating: 200 A
MCB Rating: 200 A

Wire Size	Circuit Description	Type	Trip	Pole	CCT#	A		B		CCT#	Pole	Trip	Type	Circuit Description	Wire Size
	Lighting & Exit Signs		15 A	1	1	66 VA	108 VA			2	1	15 A		Exterior Lighting	
	UH-1 - Furniture Storage		15 A	1	3			155 VA	360 VA	4	1	15 A		Receptacles - Furniture Storage	
	Receptacles - Furniture Storage		15 A	1	5	360 VA	1800 VA			6	1	20 A		Exterior Receptacle	
	Exterior Receptacle		20 A	1	7			1800 VA	1800 VA	8	1	20 A		Exterior Receptacle	
	Receptacles - Furniture Storage		15 A	1	9	360 VA	155 VA			10	1	15 A		UH-2 - Storage	
	UH-3 - Storage		15 A	1	11			155 VA	180 VA	12	1	15 A		Receptacles - Storage	
	Overhead Recept. - Furniture Storage		15 A	1	13	180 VA	0 VA			14	1	15 A		Other	
	OHD-2 - Storage		15 A	1	15			200 VA	360 VA	16	1	15 A		Receptacles - Storage	
	OHD-1 - Storage		15 A	1	17	200 VA				18					
	Receptacles - Storage		15 A	1	19			360 VA	360 VA	20	1	15 A		Receptacles - Storage	
	Receptacles - Storage		15 A	1	21	360 VA				22					
					23					24					
	Receptacles - Storage		15 A	1	25	360 VA				26					
					27					28					
	Receptacles - Storage		15 A	1	29	360 VA				30					
					31					32					
	Receptacles - Furniture Storage		15 A	1	33	360 VA				34					
					35					36					
					37		0 VA			38	1	15 A		Spare	--
--	Spare		15 A	1	39			0 VA	0 VA	40	1	15 A		Spare	--
--	Spare		15 A	1	41	0 VA	0 VA			42	1	15 A		Spare	--
						6469 VA		5730 VA							
					Total Amps:	54 A		48 A							

Minimum #12 Copper Wire U.N.O.

New Circuits - BLACK Existing...

GFI = Ground Fault Protection
AFI = Arc Fault Protection

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C.D. Martyn™
ENGINEERING LTD

739B Arlington Park Pl,
Kingston, Ontario K7M 8M8
O: 613 539-4199
F: 613 653-9424

PROJECT:

STORAGE GARAGE FOR RAINY RIVER DISTRICT SOCIAL SERVICES ADMINISTRATION BOARD

737 Scott Street, Fort Frances

PROJECT NO. 19-024

SHEET NAME:
SINGLE LINE DIAGRAM & PANEL SCHEDULE

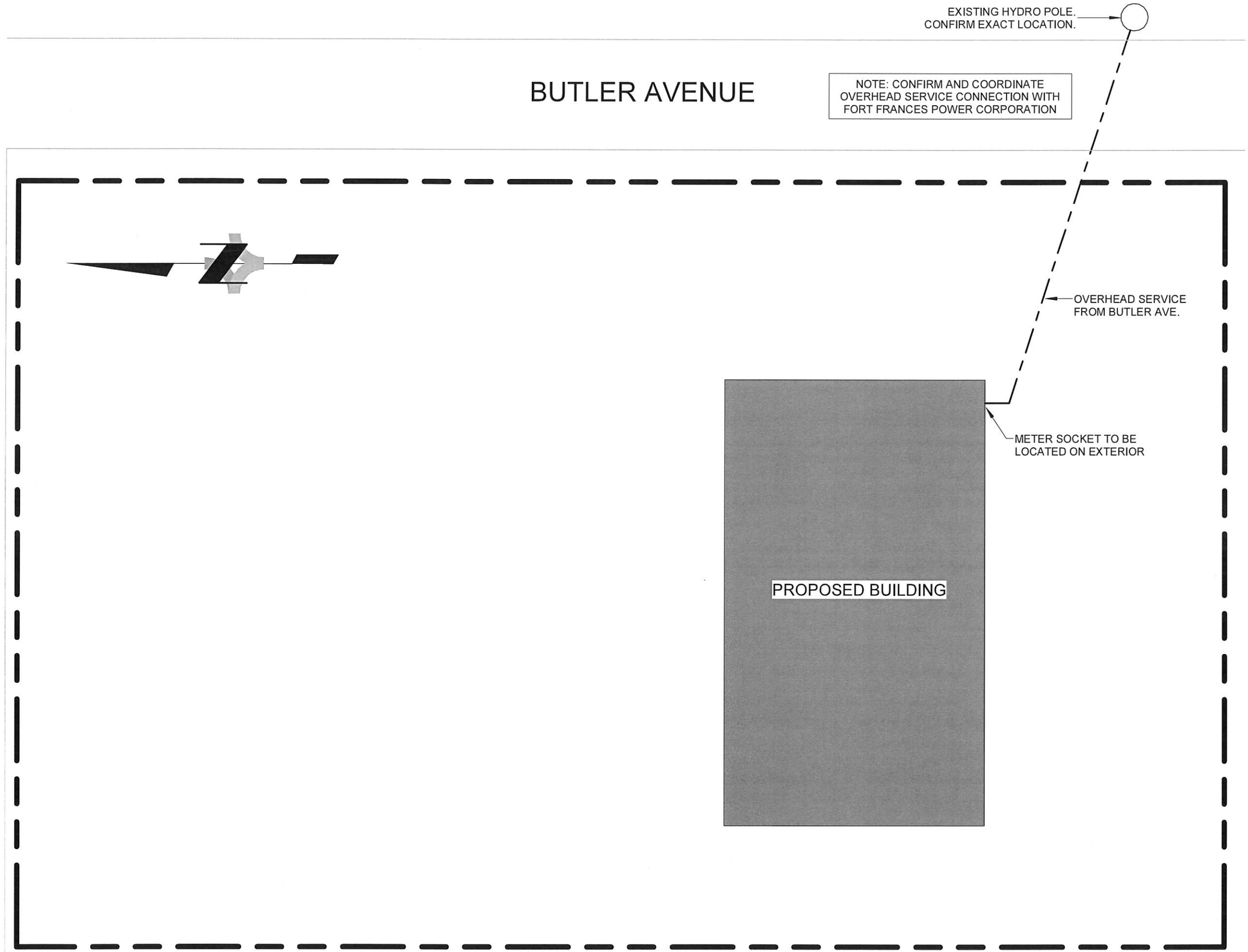
DRAWN BY: MJ | CHECKED BY: CDM

REVISION: 0 2019-06-26

SCALE: As indicated

E002

AGENDA ITEM #5.6



1 ELECTRICAL SITE PLAN
N.T.S.

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100222614 0029-19
PROVINCE OF ONTARIO

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PROJECT:
STORAGE GARAGE FOR RAINY RIVER DISTRICT SOCIAL SERVICES ADMINISTRATION BOARD
737 Scott Street, Fort Frances

PROJECT NO. 19-024

SHEET NAME:
SITE PLAN

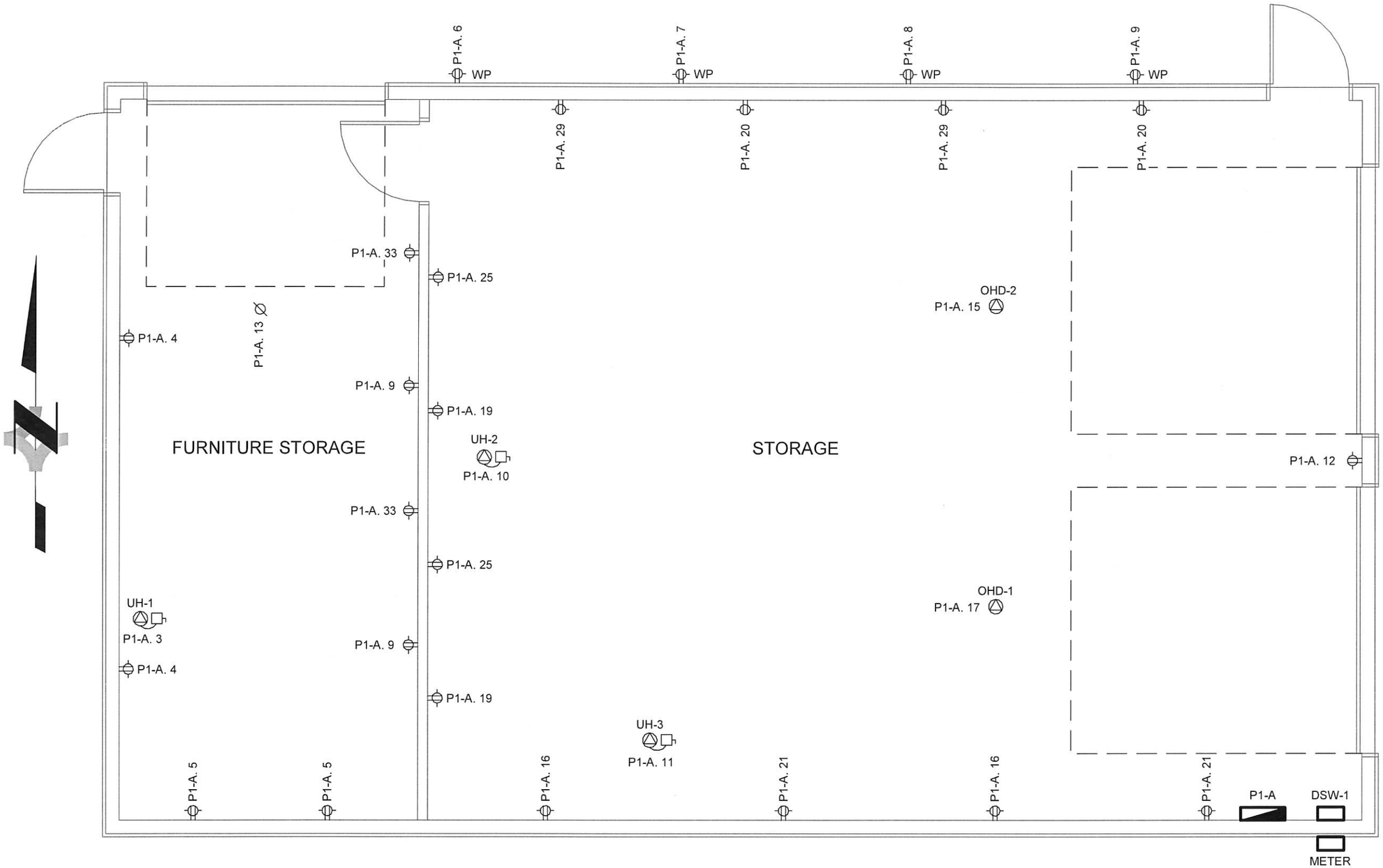
DRAWN BY: MJ | CHECKED BY: C.D.M.

REVISION: 0 2019-06-26

SCALE: 3/32" = 1'-0"

E003

AGENDA ITEM #5.6



1 GROUND FLOOR POWER AND SYSTEMS PLAN

Scale: 1/4" = 1'-0"

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PROJECT:

STORAGE GARAGE FOR RAINY RIVER DISTRICT SOCIAL SERVICES ADMINISTRATION BOARD

737 Scott Street, Fort Frances

PROJECT NO. 19-024

SHEET NAME:
GROUND FLOOR POWER & SYSTEMS PLAN

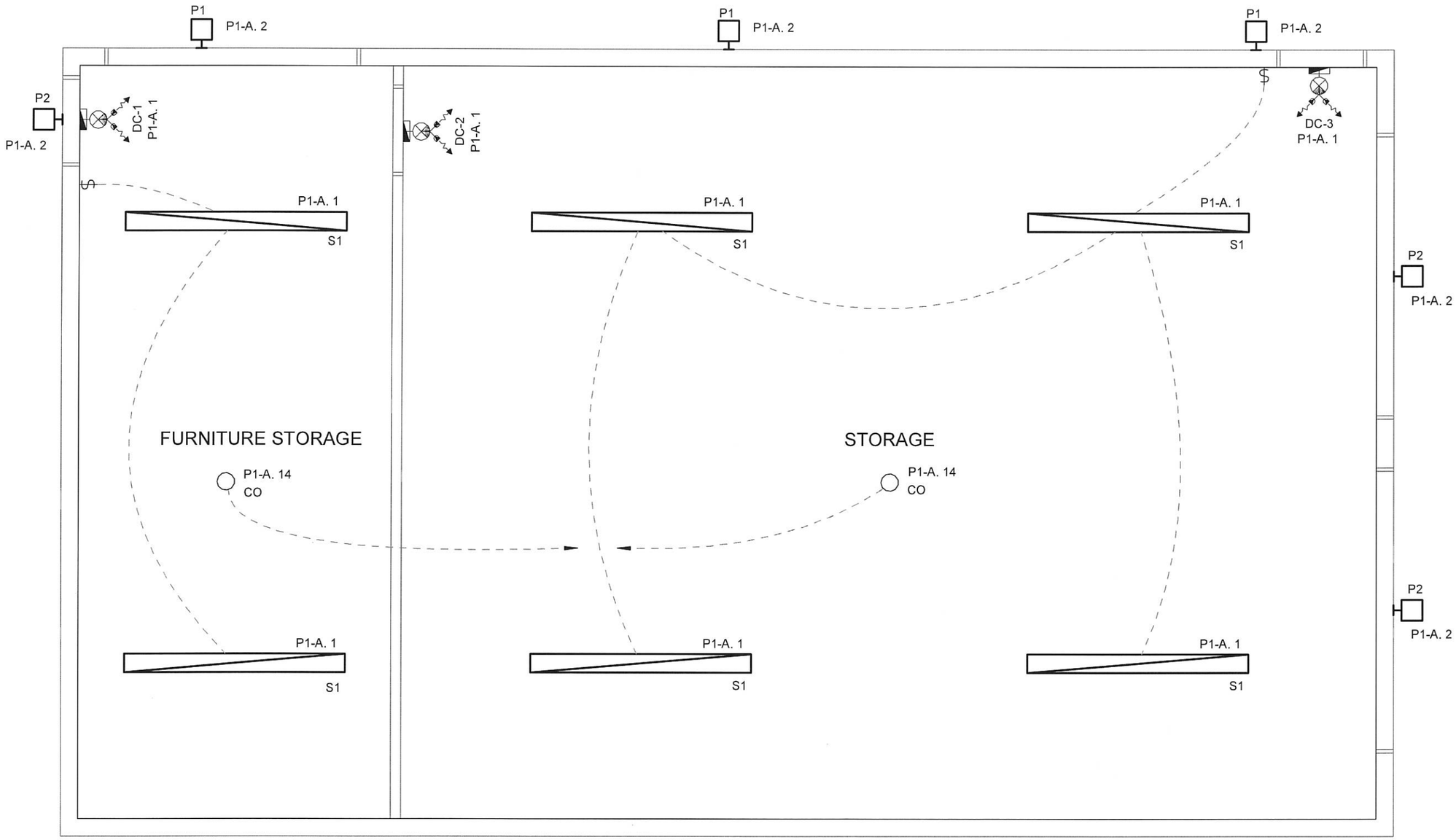
DRAWN BY: MJ | CHECKED BY: CDM

REVISION: 0 2019-06-26

SCALE: 1/4" = 1'-0"

E100

AGENDA ITEM #5.6



1 MAIN FLOOR REFLECTIVE CEILING PLAN

Scale: 1/4" = 1'-0"

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL	COUNT
P1	COOPER LIGHTING	AXCS4ARL-GRF	3
P2	COOPER LIGHTING	XTOR1BW	3
S1	COOPER LIGHTING	8SLSTP11040DD-UNV	6

EXIT SIGN AND EMERGENCY LIGHT SCHEDULE

DC CIRCUIT	FIXTURE TYPE	MANUFACTURER	MODEL	COUNT	WATTAGE	TOTAL
DC-1	COMBO BATTERY/ DUAL LIGHT HEAD	EMERGI-LITE	EAC1W1250 2 LJU	1	14.5 W	14.5 W
DC-2	COMBO BATTERY/ DUAL LIGHT HEAD	EMERGI-LITE	EAC1W1250 2 LJU	1	14.5 W	14.5 W
DC-3	COMBO BATTERY/ DUAL LIGHT HEAD	EMERGI-LITE	EAC1W1250 2 LJU	1	14.5 W	14.5 W

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737 Scott Street, Fort Frances

PROJECT NO. 19-024

SHEET NAME:

GROUND FLOOR REFLECTIVE CEILING PLAN

DRAWN BY: MJ CHECKED BY: CDM

REVISION: 0 2019-06-26

SCALE: 1/4" = 1'-0"

E201

Date: August 5, 2020

Report To: Mayor & Council

From: Cody Vangel, Chief Building Official & Municipal Planner

Re: Fort Frances/Aazhogan Renewal Planning Committee – Draft Terms of Reference

On May 27, 2020 members of the Town of Fort Frances administration along with our land use planning and economic development consultants met with Riversedge Developments Inc. (2670568 Ontario Ltd.) and Rainy River First Nations, together in joint venture as Aazhogan Renewal, to discuss land use planning policies and mechanisms associated with the potential redevelopment of the Fort Frances mill properties. In this meeting it was discussed that in order to facilitate the implementation of various policies and mechanisms, that the Town apply for funding opportunities to prepare a study of the lands similar to that of the Shevlin Woodyard and Gateway to Market Square. In support of the study it was also discussed that a joint planning committee be formed known as the "Fort Frances / Aazhogan Renewal Planning Committee". The agreed upon terms of reference behind this committee are attached.

Rainy River Future Development Corporation (RRFDC) is preparing to submit two funding applications to complete a Land Use and Economic Development Feasibility Study for the associated mill properties. These applications will not be submitted without the support from Mayor & Council on the proposed Committee and terms of reference.

The intent of this committee and study will be to engage a consultant to craft location specific land use planning policies, identify economic development opportunities and to provide recommendations that will be used to amend the Town of Fort Frances Official Plan and Zoning By-Law to assist in the redevelopment of the subject lands. The outcome of these amendments will assist to mitigate delays and reduce turnaround times on planning applications associated with the subject lands and to promote redevelopment of the lands for a wide range of uses.

The agreed upon terms of reference for the committee have been reviewed by associated administration members, RRFDC representative, and the Town's retained planning consultant.

This matter was considered at the July 6, 2020 Planning and Development Executive Committee where it was requested that the Terms of Reference be reconsidered to allow the inclusion of members of mayor and council to sit on the proposed planning committee. When this request was brought back to Riversedge Developments, their stance was that they preferred to proceed without mayor and council sitting on the committee directly.

This matter was reconsidered at the August 4, 2020 Planning and Development Executive Committee where the committee heard that Riversedge preferred to proceed without mayor and council on the committee. In this meeting it was clearly stated by mayor and council members that they retain the final decision on any amending policies that develop through the process. Throughout the discussion it was recommended by PDEC that Administration be authorized to enter the committee as per the Terms of Reference, and subsequently that application for grant funding may proceed.

Respectfully submitted

Cody Vangel, EIT
Chief Building Official & Municipal Planner

Council approval of this report will agree to the recommendation of the Planning and Development Executive Committee to allow administration to enter the Fort Frances/Aazhogan Renewal Planning Committee as per the provided Terms of Reference, and subsequently authorize the application for grant funding.

Terms of Reference
Fort Frances / Aazhogan Renewal Planning Committee

1.0 Background on Aazhogan Renewal

2670568 Ontario Ltd. acquired the former Fort Frances mill properties in July 2019. Since that time, 2670568 and Rainy River First Nations have formed a joint venture with the intent to collaboratively redevelop the mill properties. The joint venture operates as Aazhogan Renewal.

In June 2020, Aazhogan Renewal and the Town of Fort Frances (together, The "Parties") agreed to work together to address anticipated planning and development requirements associated with the mill properties, most notably with amendments that may be required with the Town of Fort Frances Official Plan (click here) and the ambitions of Aazhogan Renewal. The Town of Fort Frances and Aazhogan Renewal agreed to work together through a newly formed *Fort Frances/ Aazhogan Renewal Planning Committee* ("the Committee").

2.0 Purpose

The Committee has been established to provide a forum to align The Parties' priorities and to develop recommendations for amending Town planning documents relevant to ongoing renewal efforts within the Town limits.

The Committee is an advisory committee and will have no official authorities.

3.0 Principal responsibilities

The principal responsibilities of the Committee will be to:

1. Meet with the Town of Fort Frances' designated planner to understand requirements within the municipality (i.e. *The Planning Act*, Official Plan, Zoning By-law, Provincial Policy Statement, etc.).

2. Recommend appropriate mechanisms for efficiently re-zoning the mill properties from current designations to more appropriate Official Plan land use designations.

3. Develop a Request for Proposal (RFP) to hire a qualified consultant who will work with the Committee to identify opportunities for advancing the Official Plan and Zoning By-law in support of anticipated renewal projects related to the mill properties for presentation and adoption to the Town of Fort Frances for inclusion in the Official Plan and Zoning By-Law. For further clarification, the Committee is not responsible for development of the master plan for the properties or any detailed planning pertaining to the properties.

4. If necessary, develop and execute engagement and communication plans to gain support from key stakeholder groups, including governments, regulators, companies, and investors.

4.0 Membership

Membership of the Committee will include;

- 2 (two) representatives for Aazhogan Renewal and
- 2 (two) representatives from the Town of Fort Frances administration.

Members will sit on the Committee as representatives of their organization, in addition to bringing individual expertise.

The Committee will be chaired on a rotational basis by each of the four members.

5.0 Funding for the Committee

Each party will pay any out of pocket and travel expenses for their representatives.

The Town of Fort Frances will pay for all expenses related to the qualified consultant, including fees, expenses, etc. pending approval of funding submissions to granting agencies. Any fees or expenses for the consultant that are not covered by the grant will be split 50/50 by The Town of Fort Frances and Aazhogan Renewal.

6.0 Meeting Frequency and Location

The Committee will meet two times per month, on the second and fourth Tuesday.

The time requirement for each session will vary, but generally the session will begin at 1:30 pm and end by 3:30pm. Once a consultant is engaged, the committee may mutually agree to vary day and time requirements to facilitate an efficient process.

Meetings will be held in a location to be determined.

7.0 Duration

Duration of the Committee will continue to exist until the work is adopted by the Town of Fort Frances within their Official Plan and Zoning By-law.

August 5, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Award of Tender 20-OF-09 – 2020 Zoom Camera Inspection of Storm Sewers

The Town of Fort Frances included funds in its operating budget in 2020 to continue a storm sewer inspection program to determine the condition of some of the storm sewer system within the Town of Fort Frances as part of the ongoing Asset Management Program.

Attached you will find a report from Adam Mitchell, Asset Management Coordinator recommending the award of Tender 20-OF-09 to Infratech Services for inspection services at a total cost of $20,057.50 including HST. To remain under the Town's budget allocation of $14,000.00 including HST, Administration would work with the contractor to adjust the units such that the inspection areas conform within the Town's budget allocation.

The matter was discussed at the Operations and Facilities Executive Committee and that committee recommends that the tender not be awarded in 2020 and inspections be deferred to 2021 or future years.

Respectfully Submitted

Travis Rob, P.Eng
Manager of Operations and Facilities

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee to not award Tender 20-OF-09.

2020Aug5 Award of Tender 20-OF-09 - Zoom Camera REV.docx

July 24, 2020

Report To: Travis Rob, Manager of O&F

From: Adam Mitchell, Asset Management Coordinator

RE: Award of Tender 20-OF-09 – 2020 Storm Sewer Zoom Camera Inspection Project.

The Operations and Facilities department at The Town of Fort Frances plans to continue its initiative to provide condition assessments on its infrastructure. With some of the Towns storm sewer infrastructure exceeding its useful life (age based determined) monies were allocated to investigate areas of concerns within the 2020 budget. In June, a tender was released looking for viable firms that offered Zoom Camera Inspections. On July 15th all submitted proposals were opened publicly at the Town of Fort Frances Civic Centre where only one firm submitted a proposal.

The Proposal was submitted by Infratech Services of Sudbury Ontario. Following receipt of the proposal I reviewed all documents within the package to ensure that the service Infratech was proposing to provide meant the requirements of the tender. The results of my findings show that Infratech Services understand the requirements of the tender and have vast knowledge and experience in conducting zoom camera inspections of city storm sewers.

Infratech cost breakdown is shown in the table below.

Item	Total
(De)Mobilization/Collection Costs:	$ 5,000.00
Zoom Camera Inspection Costs:	$ 12,750.00
HST	$ 2,307.50
Grand Total	$ 20,057.50

This price exceeds the amount allocated in the budget for this year's project. As outlined in the tender document, we will be reducing the scope of the project to remain on budget.

Infratech Services did not specify a schedule in the fax copy of the proposal I received however I have no concerns about having the work completed within the construction season.

It is important to note that this was a joint tender project with the Town of Sioux Lookout. They have reviewed the submitted proposal and will be moving forward.

I recommend that the contract for the 2020 Zoom Camera Inspection of Storm Sewer be awarded to Infratech Services.

Respectfully Submitted

Adam Mitchell, P.Eng
Asset Management Coordinator

August 5, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Award of Tender 20-OF-11 – 2020 Kings Highway Reconstruction

During the week of July 6, 2020 the Town advertised for a Tender Call for the reconstruction of Kings Highway from Pit Road #1 to Pit Road #2 with the tender closing on Tuesday, July 28, 2020. Advertisements were placed in the Fort Frances Times, Chronicle Journal, Thunder Bay Construction Association, Winnipeg Construction Association and on the Town of Fort Frances website.

Five (5) tender packages were distributed to construction contractors and/or suppliers with four (4) Contractors submitting tender bids;

Contractor	Price (HST Included plus $150,000.00 Contingency Allowance)
1876118 Ontario Ltd. o/a Makkinga Contracting	$2,788,336.02
PNI Contracting	$2,511,103.93
Tom Veert Contracting	$2,308,205.79
George Armstrong Company	$2,034,823.21

The works tendered consisted of one (1) project to be completed in 2022. The project is as follows:

2020/2021 Construction Program

1. **Reconstruction of Kings Highway from Pit Road #1 to Pit Road #2**
   Full reconstruction and widening of Kings Highway including the installation of new water services, new stormsewer, landscaping and base and surface coarse asphalt.

Given the late tendering of this project, there was no requirement to start any works in 2020, however if work was to begin, the roadway would not be allowed to be gravel through the winter. Given those stipulations, each bidder would have planned their work based on their schedule this year.

In accordance with the Town's procurement policy, Administration has an obligation to point out to Council any tender irregularities. All tenders submitted were complete and compliant. **See Spreadsheet No. 1**, which outlines details on the four (4) tender bids received and the associated costs for each individual project. Also, highlighted in "green" indicates the lowest unit bid price and "red" indicates the highest unit bid price.

The low tender bid was George Armstrong Company with a total cost of $2,034,823.21 which includes a $150,000 contingency allowance spread over the two years and HST. Please review the attached **Spreadsheet No. 2 -** outlining the funding allocations vs. the lowest tender bid from George Armstrong Company plus Hatch Engineering costs (10%). The entire phase 1 works were included in the 2020 budget anticipating a funding award in March as usual. In speaking with George Armstrong Company, they plan to complete the stormsewer and water works along the south portion of the roadway in 2020, with the remaining stormsewer and water works as well as roadway reconstruction works in 2021, with construction work set to be complete August 15, 2021.

Please find attached a letter report from Hatch recommending that George Armstrong Company be awarded this tender as they are the low tender and, in the past, have performed well on similar projects in our community.

It is recommended by Administration that the following be approved:

- That Tender 20-OF-11 – Kings Highway Reconstruction be awarded to George Armstrong Company at an estimated cost of $2,034,823.21 which includes HST and a contingency allowance of $150,000.00.
- That prior to construction start, an open house public meeting is scheduled to ensure all property owners abutting the construction projects obtain first-hand knowledge of these projects and have the opportunity to ask any questions. The exact date of the meeting is unknown at the time of writing this report.
- That the Mayor and Clerk be authorized to execute the contract documents on behalf of the Corporation of the Town of Fort Frances.

Respectfully Submitted

Travis Rob, P.Eng.
Manager of Operations and Facilities

Council approval of this report will ensure:

- **That Tender 20-OF-11 – Kings Highway Reconstruction be awarded to George Armstrong Company at an estimated cost of $2,034,823.21 which includes HST and a contingency allowance of $150,000.00.**
- **That prior to construction start, an open house public meeting is scheduled to ensure all property owners abutting the construction projects obtain first-hand knowledge of these projects and have the opportunity to ask any questions. The exact date of the meeting is unknown at the time of writing this report.**
- **That the Mayor and Clerk be authorized to execute the contract documents on behalf of the Corporation of the Town of Fort Frances.**

2020Aug Award of Tender 20-OF-11 Kings Highway Reconstruction.docx

HATCH

973 Balmoral Street, Suite 101
Thunder Bay, Ontario, Canada P7B 0E2
Tel: +1 (807) 623 3449 Fax: +1 (807) 623 5925 www.hatch.com

July 30, 2020 360871-P

Town of Fort Frances
320 Portage Avenue
Fort Frances, Ontario
P9A 3P9

Attention: Travis Rob, P.Eng.

Re: 2020 Kings Highway Widening & Storm Sewer Improvements
Tender No.20-OF-11
Tender Recommendation

Tenders for the above project were received by the Town of Fort Frances, via fax transmittal (with the exception of the George Armstrong Co. Limited tender was submitted in hard copy), on or before 2:00 pm (CDT) on Tuesday, July 28th, 2020. Four (4) tenders were received, and are listed below in ascending order:

Tenderer	Tender Price
1) George Armstrong Co. Limited (GACL)	$2,034,823.21
2) Tom Veert Contracting Limited (TVCL)	$2,301,622.46
3) PNI Contracting	$2,511,103.93
4) Makkinga Contractors & Equipment Rental	$2,788,336.02

The above tender prices include H.S.T. The Tenders were checked arithmetically and were all found to be correct.

TENDER IRREGULARITIES

A review of the tenders was undertaken. All of the four (4) tenderers submitted a Bid Bond in the amount of 10% of the Tender Price and an Agreement to Bond and/or Consent of Surety. All tenderers included completed Forms A, B, C, D, E and F of the Tender documents.

REVIEW OF TENDER PRICES

A review of the tender prices submitted by the tenderers was undertaken. GACL tender pricing was generally overall lower than the other tenderers. Items relating to asphalt, granulars, concrete, storm sewer and mobilization/demobilization, account for a significant price difference between the other tenderers.

Overall, the low tenderer has indicated they are comfortable with the price submitted.

The engineers estimate for this project was approximately 20% higher than the lowest submitted tender and the lowest bidder was approximately 12% lower than the 2nd lowest bidder.

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LOW TENDERER'S QUALIFICATIONS

GACL is a reputable local general contractor that has been delivering expertise to both public and private sector clients throughout Northwestern Ontario. They have completed numerous road reconstruction/underground infrastructure projects for various clients including the Town of Fort Frances in the recent past.

GACL is proposing to carry out the majority of the work with their own forces which includes all the excavation, grading, pipe works and landscaping. GACL has stated that all asphalt works will be completed by Pioneer Construction and concrete works will be completed by NST Construction.

PROPOSED PROJECT SCHEDULE

This Contract includes a completion date of August 15, 2021.

GACL has indicated that they intend on installing the storm sewer main and catch basins on the south side of the project this year, with all other items commencing in the spring of 2021. GACL stated that they will have dedicated crews working onsite throughout the Contract and do not anticipate any issues meeting the specified completion date of August 15, 2021.

RECOMMENDATION

We therefore recommend that the Contract be awarded to George Armstrong Co. Limited in the amount of $2,034,823.21 (including H.S.T). This amount includes a contingency amounts for $150,000 that will not be spent without authorization from the Town of Fort Frances.

With this report we are enclosing a spreadsheet showing a comparison of the tender prices and the engineer's estimate.

Yours very truly,

Joseph De Luca, P. Eng.
Senior Project Engineer
Encl.

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Spreadsheet #1 - Kings Highway Reconstruction

ITEM NO.	OPS SPEC.	DESCRIPTION	EST. QTY	UNIT	UNIT BID PRICE	TOTAL BID PRICE	1876118 Ontario Ltd. o/a Makkinga Contracting		PNI Contracting		Tom Veert Contracting		George Armstrong Company	
							Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price
KINGS HIGHWAY (from Pit Road #1 to Pit Road #2)														
Section A - Grading														
A.001	206, SP	Earth Excavation (Grading)	10,878	m^3(P)	$ 18.00	$ 195,804.00	$15.00	$163,170.00	$10.53	$114,545.34	$9.06	$98,554.68	$7.00	$76,146.00
A.002	310, SP	Hot Mix Asphalt (70mm Binder Course)	890	t	$ 275.00	$ 244,750.00	$264.00	$234,960.00	$252.72	$224,920.80	$282.06	$251,033.40	$240.00	$213,600.00
A.003	310, SP	Hot Mix Asphalt (50mm Surface Course)	630	t	$ 250.00	$ 157,500.00	$251.00	$158,130.00	$237.60	$149,688.00	$268.30	$169,029.00	$230.00	$144,900.00
A.004	314, SP	Granular 'A' Roadway (200mm)	3,825	t	$ 28.00	$ 107,100.00	$28.00	$107,100.00	$23.22	$88,816.50	$23.70	$90,652.50	$22.00	$84,150.00
A.005	314, SP	Granular 'A' Entrances (100mm)	33	t	$ 25.00	$ 825.00	$28.00	$924.00	$65.34	$2,156.22	$23.20	$765.60	$22.00	$726.00
A.006	314, SP	Granular 'B' Type II Roadway	10,800	t	$ 25.00	$ 270,000.00	$28.00	$302,400.00	$26.46	$285,768.00	$21.43	$231,444.00	$21.00	$226,800.00
A.007	510, SP	Removal of Asphalt Pavement (Full Depth)	3,713	m^2(P)	$ 5.00	$ 18,565.00	$7.00	$25,991.00	$3.78	$14,035.14	$5.68	$21,089.84	$3.00	$11,139.00
A.008	353, SP	Curb and Gutter	686	m	$ 180.00	$ 123,480.00	$232.00	$159,152.00	$206.28	$141,508.08	$208.33	$142,914.38	$181.00	$124,166.00
A.009	351, SP	Concrete Driveway Aprons	136	m2	$ 250.00	$ 34,000.00	$207.00	$28,152.00	$199.80	$27,172.80	$258.30	$35,128.80	$220.00	$29,920.00
A.010	Section 02930	100 mm Topsoil and Sod	1,150	m^2	$ 20.00	$ 23,000.00	$22.00	$25,300.00	$13.99	$16,088.50	$15.93	$18,319.50	$20.00	$23,000.00
A.011	510, SP	Removal of Existing Boulevard Trees	9	ea	$ 1,000.00	$ 9,000.00	$1,000.00	$9,000.00	$216.00	$1,944.00	$969.78	$8,728.02	$200.00	$1,800.00
A.012	SP	Relocation of Existing Signage	1	LS	$ 5,000.00	$ 5,000.00	$7,500.00	$7,500.00	$2,700.00	$2,700.00	$7,813.97	$7,813.97	$500.00	$500.00
A.013	1860,SP	Geogrid	7,230	m2	$ 8.00	$ 57,840.00	$8.00	$57,840.00	$4.43	$32,028.90	$5.73	$41,427.90	$4.30	$31,089.00
A.014	1860,SP	Geotextile	8,235	m2	$ 5.00	$ 41,175.00	$8.00	$65,880.00	$3.13	$25,775.55	$5.73	$47,186.55	$2.50	$20,587.50
A.015	710, SP	Pavement Markings	1	LS	$ 16,000.00	$ 16,000.00	$20,000.00	$20,000.00	$22,140.00	$22,140.00	$21,776.22	$21,776.22	$17,000.00	$17,000.00
					Total Section A - Grading	$ 1,304,039.00		$1,365,499.00		$1,149,287.83		$1,185,864.36		$1,005,523.50
Section B - Storm Sewers														
B.001	407, SP	Catchbasin Storm Manholes	8	ea	$ 10,000.00	$ 80,000.00	$15,000.00	$120,000.00	$11,178.00	$89,424.00	$10,039.56	$80,316.48	$10,000.00	$80,000.00
B.002	407, SP	Catchbasins	8	ea	$ 6,000.00	$ 48,000.00	$4,000.00	$32,000.00	$4,104.00	$32,832.00	$6,263.74	$50,109.92	$6,000.00	$48,000.00
B.003	407, SP	Ditch Inlet (Type A, precast concrete c/w grate)	1	ea	$ 8,000.00	$ 8,000.00	$8,750.00	$8,750.00	$11,880.00	$11,880.00	$7,645.98	$7,645.98	$7,500.00	$7,500.00
B.004	410	Catchbasin Leads 250 mm (PVC SDR 35)	40	m	$ 300.00	$ 12,000.00	$325.00	$13,000.00	$207.36	$8,294.40	$206.18	$8,247.20	$225.00	$9,000.00
B.005	410	900mm Storm Sewer	383	m	$ 750.00	$ 287,250.00	$1,160.00	$444,280.00	$1,236.60	$473,617.80	$1,102.17	$422,131.11	$835.00	$319,805.00
B.006	410	450mm Storm Sewer	52	m	$ 500.00	$ 26,000.00	$525.00	$27,300.00	$636.12	$33,078.24	$707.81	$36,806.12	$600.00	$31,200.00
B.007	405	Subdrain	1,005	m	$ 50.00	$ 50,250.00	$45.00	$45,225.00	$25.92	$26,049.60	$16.11	$16,190.55	$40.00	$40,200.00
B.008*	SP	50 mm Rigid Styrofoam Insulation	50	m2	$ 50.00	$ 2,500.00	$70.00	$3,500.00	$63.72	$3,186.00	$46.02	$2,301.00	$60.00	$3,000.00
					Total Section B - Storm Sewers	$ 514,000.00		$694,055.00		$678,362.04		$623,748.36		$538,705.00
Section C - Watermain														
C.001	441, SP	50mm Water Service	3	ea	$ 7,500.00	$ 22,500.00	$19,000.00	$57,000.00	$12,960.00	$38,880.00	$9,058.35	$27,175.05	$6,000.00	$18,000.00
C.002	441, SP	Temporary Water Service	1	LS	$ 5,000.00	$ 5,000.00	$14,000.00	$14,000.00	$10,260.00	$10,260.00	$7,127.49	$7,127.49	$10,000.00	$10,000.00
C.003*	441, SP	50mm Rigid Styrofoam Insulation	50	m^2	$ 50.00	$ 2,500.00	$70.00	$3,500.00	$63.72	$3,186.00	$46.02	$2,301.00	$60.00	$3,000.00
					Total Section C - Watermain	$ 30,000.00		$74,500.00		$52,326.00		$36,603.54		$31,000.00

ITEM NO.	OPS SPEC.	DESCRIPTION	EST. QTY	UNIT	UNIT BID PRICE	TOTAL BID PRICE	Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price
Section D - General														
D.001	SP	Bonds & Insurance	1	LS	$ 50,000.00	$ 50,000.00	$35,000.00	$35,000.00	$55,080.00	$55,080.00	$31,288.28	$31,288.28	$22,000.00	$22,000.00
D.002	SP	Mobilization & Demobilization	1	LS	$ 100,000.00	$ 100,000.00	$140,000.00	$140,000.00	$111,240.00	$111,240.00	$5,501.97	$5,501.97	$50,000.00	$50,000.00
D.003	SP	Project Sign	1	LS	$ 5,000.00	$ 5,000.00	$1,000.00	$1,000.00	$12,960.00	$12,960.00	$3,503.48	$3,503.48	$2,500.00	$2,500.00
D.004*	Section 01000	Consultant Site Office	1	LS	$ 15,000.00	$ 15,000.00	$7,500.00	$7,500.00	$12,960.00	$12,960.00	$6,150.00	$6,150.00	$1,000.00	$1,000.00
D.005	SP	Contingency Allowance	1	LS	$ 150,000.00	$ 150,000.00	$150,000.00	$150,000.00	$150,000.00	$150,000.00	$150,000.00	$150,000.00	$150,000.00	$150,000.00
					Total Section D - GENERAL	$ 320,000.00		$333,500.00		$342,240.00		$196,443.73		$225,500.00
SUMMARY OF TENDER PRICES														
Section A - Grading						$ 1,304,039.00		$1,365,499.00		$1,149,287.83		$1,185,864.36		$1,005,523.50
Section B - Storm Sewers						$ 514,000.00		$694,055.00		$678,362.04		$623,748.36		$538,705.00
Section C - Watermain						$ 30,000.00		$74,500.00		$52,326.00		$36,603.54		$31,000.00
Section D - General						$ 320,000.00		$333,500.00		$342,240.00		$196,443.73		$225,500.00
					SUB-TOTAL TENDER PRICE	$ 2,168,039.00		$2,467,554.00		$2,222,215.87		$2,042,659.99		$1,800,728.50
					13% H.S.T	$ 281,845.07		$320,782.02		$288,888.06		$265,545.80		$234,094.71
					TOTAL TENDER PRICE	$ 2,449,884.07		$2,788,336.02		$2,511,103.93		$2,308,205.79		$2,034,823.21

*** Provisional Tender Items - Tender Items identified as Provisional may be deleted prior to/after Contract Award without affecting any other Tender Item prices, and without penalty or recourse.**

Spreadsheet #2 - Kings Highway Reconstuction

2020/2021 Connecting Link Kings Highway Reconstruction

SUMMARY OF TENDER	Total Tender Price	Portion of Bonds & Insurance	Portion of Contingency	Engineering (10%)	Total Cost	Total Cost With Town's Portion HST	Funding Allocation	Town Contribution
Section A - Grading	$1,005,523.50	$48,194.29	$95,750.25	$114,946.80	$1,264,414.85	$1,286,668.55	$1,158,001.70	$128,666.86
Section B - Storm Sewers	$538,705.00	$25,819.89	$51,297.80	$61,582.27	$677,404.96	$689,327.28	$620,394.55	$68,932.73
Section C - Watermain	$31,000.00	$1,485.82	$2,951.95	$3,543.78	$38,981.55	$39,667.62	$0.00	$39,667.62
Section D - General	$225,500.00							
	$1,800,728.50	$75,500.00	$150,000.00	$180,072.85	$1,980,801.35	$2,015,663.45	$1,778,396.25	$237,267.20

July 29, 2020

Report To: Mayor & Council

From: Travis Rob, P.Eng., Manager of Operations & Facilities

SUBJECT: April 2020 Drinking Water Systems Monthly Summary Report

Please find attached the April 2020 Summary Report on the drinking water systems, prepared by Brad Webb, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the April 2020 report as presented.

Respectfully submitted,
Operations & Facilities Division

Travis Rob, P.Eng.
Manager of Operations & Facilities

Council approval of this report will accept the April 2020 report prior to it being made available to the general public.

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Brad Webb, ORO, Senior WTP Operator

RECOMMENDED
AUG 05 2020
DIV. MNG.
EXECUTIVE COMM.

April 2020

Monthly Summary Report
Water Systems

Prepared By: Brad Webb, ORO
Senior Water Treatment Plant Operator

Dated: May 13, 2020

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of April 2020 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works No. 849N7DGE0 (Precedes Airport Groundwater Well Water Works No. 26002736). This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act. The water treatment plant falls under the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

The Airport Small Drinking Water System, System No. 849N7DGE0, was put into service August 01, 2017. The system falls under the requirements of Ontario Regulation 319/08 – Small Drinking Water Systems.

2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet.

Airport Groundwater Well:

Estimated Daily Usage	0.21 m3
Estimated April Usage	6.30 m3

3) **Microbiological (Health Related) Water Analysis - Main Water System No. 220000978:**

Water Treatment Plant (treated): 4 samples taken no adverse results
Water Treatment Plant (raw): 4 samples taken no adverse results
Water Distribution System: 16 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) - no adverse results.

We take microbiological samples on a weekly basis, which includes 1 raw sample, 1 treated sample and 4 distribution samples. The 4 distribution samples are taken at different locations throughout the distribution system.

Water distribution samples taken at the following locations:

1. 1111 First St. E.	2. 401 King's Hwy.	3. 1319 Colonization W.	4. W. Tower
5. 1036 Victoria Ave.	6. 401 King's Hwy	7. 1319 Colonization W.	8. W. Tower
9. 1017 Cornwall Ave.	10. 401 King's Hwy.	11. 1319 Colonization W.	12. W. Tower
13.940 Third ST.E.	14. 401 King's Hwy.	15. 1319 Colonization W.	16. W. Tower

4) **Microbiological (Health Related) Water Analysis - Airport Groundwater Well No. 849N7DGE0:**

New drinking water system put online August 01, 2017. No treatment required as the Airport groundwater tested negative for bacteria.

The Airport drinking water system is to be sampled and tested for bacteria once every three (3) months in accordance with Section 25 – Microbiological Sampling and Testing of the Small Drinking Water Systems Regulation, O. Reg. 319/08.

Water distribution sample taken February 5, 2020 – no adverse results.

5) **Free Available Chlorine Residual (FAC) - Main Water System No. 220000978:**

FAC residuals are taken at a minimum daily at both the Water Treatment Plant and within the Water Distribution System.

6) **Free Available Chlorine Residual (FAC) - Airport Groundwater Well System No. 849N7DGE0:**

New drinking water system put online August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

7) **Maintenance Activities at the WTP:**

April 02nd Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 9th Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 16th Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 17th Did Calibration Check on Dist. Cl2 Analyzer

April 21st Changed positioner on filter #3.

April 23rd Cleaned top and bottom tanks on the poly unit
Cleaned all 4 Check Valves on the poly unit

April 28th Ran the Standby Generator for 1 hour
Shut down low lift pumps and cleaned raw water well.
Took grab samples off filters

8) **Water Complaints:**

- Poor Pressure – 0 complaints.
- Water quality – 0 complaints.

9) **Other Miscellaneous Information:**

April 1st	Painted floor by Poly unit. Installed automatic towel dispenser in lunchroom.
April 2nd	Finished painting upstairs hallway. Installed new fire hose reel by clarifiers.
April 3rd	installed new bins in blower room and filled with parts.
April 6th	Installed automatic towel dispenser at poly unit. Routine Micro samples. Samples on Colonization Road West water main repair 1st set.
April 7th	Samples on Colonization Road West water main repair 2nd set.
April 13th	Routine Micro samples.
April 20th	Routine Micro samples.
April 27th	Routine Micro samples.

10) In order to acknowledge that all levels of responsibility within the Corporation of the Town of Fort Frances have received and reviewed this monthly report, it is necessary to sign-off in the appropriate location below:

- Brad Webb, ORO, Senior WTP Operator: _____
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Doug Brown, P.Eng. CAO: _____
- Rick Wiedenhoeft, Chair O & F Exec Committee: _____
- June Caul, Mayor: _____
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- Mike Behan, Councillor: _____
- Wendy Brunetta, Councillor: _____
- Doug Judson, Councillor: _____
- Andrew Hallikas, Councillor: _____

Note: Once all signatures have been obtained, the report will be distributed and made available to the public. If you have any questions, please feel free to contact myself or Brad Webb, Senior WTP Operator at 274-2325.

Town of Fort Frances - WTP - 220000978
April 2018 v 2019 v 2020

Flow and Operating Data

Flow Data APRIL	Units	2018		2019		2020	
Total Raw Water	m^3		153240		146840		149220
Raw Maximum Day	m^3		7070		6220		5770
Raw Minimum Day	m^3		4940		4060		3820
Raw Average Daily Consumption	m^3		5280		5060		5150
Total Treated Water	m^3		117850		106270		96350
Treated Water Maximim Day Consumption	m^3		6460		4330		3640
Treated Water Minimim Day Consumption	m^3		3230		2910		2730
Treated Water Average Day Consumption	m^3		3930		3540		3210
Daily Average Per Household Consumption Rate	m^3		1.04		0.94		0.85
* Daily Average Per Person Consumption Rate	m^3		0.49		0.44		0.40
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		2.14		2.13		2.20
Total Chlorine Residual - Treated Water	mg/L		2.37		2.36		2.28
Aluminum Sulphate - Raw Water	mg/L		35.00		35.00		35.00
Aluminum Sulphate - Treated Water Residual	mg/L		0.03		0.03		
Fluoride - Treated Water	mg/L		0.66		0.63		0.72
Soda Ash - Raw Water	mg/L		35.00		35.00		35.00
pH - Adjusted			7.08		6.99		6.94
Temperature	°C		3.20		4.10		5.40
Quantity of Chemical Used:	kg						
Aluminum Sulphate	kg		5544.7		5312.3		5399.8
Polyelectrolyte	kg		87.5		75.0		62.5
Chlorine Gas	kg		609		579		605
Soda Ash - Used for pH Adjustment	kg		5544.7		5312.3		5399.8
Fluoride	kg		645		442		736

* The Canadian Average is 450 Litres (0.45 m^3) per day.
* Population is 7986
* Number of Households is 3783

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
April 2020

Operating Data	Units	*MAC or Range	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	Average
Flow rates																																		
Raw Water	10^3 M^3	17	5.06	5.05	5.16	5.30	5.17	5.05	5.18	5.21	5.19	5.08	5.19	5.20	5.30	5.17	5.22	5.19	4.99	5.08	4.94	5.77	5.18	5.23	5.18	5.23	5.30	5.11	5.19	5.20	3.82	5.34	149.22	5.15
Peak Instantaneous - Raw Water	L/s	n/a	59.16	59.20	60.55	60.59	60.59	60.36	60.51	60.51	60.54	60.69	60.64	60.64	60.66	60.66	60.71	60.68	60.69	60.77	60.84	60.80	60.84	60.86	60.89	60.93	60.94	60.95	60.89	60.94	63.62	62.17	1822.82	60.76
Treated Water	10^3 M^3	17	3.13	3.12	3.24	3.63	2.90	3.19	3.63	3.40	3.14	3.12	2.89	3.26	3.03	3.26	3.19	3.01	2.73	3.35	3.10	3.64	3.13	3.22	3.30	2.96	3.41	3.27	3.40	3.22	3.08	3.40	96.35	3.21
Peak Instantaneous - Treated Water	L/s	5	62.94	62.40	62.33	61.86	63.07	62.14	62.39	64.04	62.41	62.16	62.46	62.88	63.14	63.17	63.38	62.75	62.69	62.42	63.28	62.28	61.97	63.06	61.85	63.27	63.54	62.98	62.19	62.42	62.83	62.89	1881.19	62.71
BackWash Water	10^3 M^3	n/a	0.260	0.244	0.278	0.259	0.243	0.297	0.263	0.243	0.279	0.263	0.248	0.279	0.261	0.248	0.278	0.261	0.246	0.279	0.238	0.238	0.278	0.263	0.249	0.279	0.260	0.237	0.279	0.262	0.000	0.249	7.561	0.252
Fluoride Information																																		
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.71	0.73	0.69	0.71	0.69	0.68	0.68	0.68	0.69	0.70	0.70	0.71	0.74	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.72	0.72	0.70	0.71	0.73	0.75	0.76	0.76	0.77	0.76	21.51	0.72
Turbidity Information																																		
Raw Water	NTU	n/a	0.55	0.57	0.59	0.61	0.66	0.59	0.63	0.61	0.55	0.58	0.63	0.64	0.59	0.74	0.98	0.77	0.81	0.83	0.83	0.98	0.88	0.84	0.97	0.89	0.94	0.83	0.78	0.79	0.96	1.08	22.70	0.76
Settled Water	NTU	n/a	0.19	0.17	0.16	0.15	0.14	0.16	0.14	0.14	0.15	0.16	0.15	0.15	0.14	0.30	0.27	0.24	0.23	0.21	0.19	0.19	0.26	0.23	.15.	17.00	0.23	0.23	0.28	0.28	0.26	0.29	22.69	0.78
Treated Water	NTU	1	0.15	0.12	0.12	0.11	0.12	0.11	0.11	0.10	0.10	0.11	0.10	0.10	0.11	0.16	0.19	0.17	0.21	0.13	0.19	0.20	0.26	0.28	0.26	0.32	0.32	0.25	0.25	0.29	0.59	0.36	5.89	0.20
Other Operating Parameters																																		
pH - Treated Water	no units	6.5 to 8.5	7.00	7.04	7.07	7.09	7.05	7.01	7.03	7.03	7.06	7.05	7.01	7.02	7.03	7.03	6.79	6.76	6.74	6.77	6.76	6.93	6.77	6.83	6.82	6.98	6.85	6.75	6.84	7.07	7.12	7.04	208.34	6.94
pH - Settled water	no units	n/a	6.45	6.44	6.45	6.41	6.49	6.44	6.44	6.40	6.43	6.45	6.41	6.44	6.41	6.22	6.28	6.10	6.26	6.27	6.20	6.25	6.12	6.06	6.20	6.20	6.15	6.27	6.20	6.25	6.19	6.25	189.13	6.30
pH - Raw Water	no units	n/a	6.91	6.99	7.01	7.00	7.01	7.00	7.02	7.00	6.99	6.98	7.01	7.00	7.01	6.77	6.74	6.73	6.73	6.73	6.80	6.71	6.61	6.59	6.61	6.84	6.65	6.75	6.82	6.83	6.78	7.09	205.71	6.86
FAC - Treated Water	mg/l	0.2 to 4	2.00	2.02	2.01	2.10	2.11	2.10	6.16	2.08	2.00	2.15	2.14	2.13	2.11	1.98	2.01	2.01	2.03	1.96	1.99	2.12	2.02	2.06	2.09	2.02	2.07	2.00	2.06	2.00	2.12	2.22	65.87	2.20
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.15	2.19	2.17	2.22	2.20	2.22	2.30	2.28	2.32	2.30	2.28	2.32	2.36	2.34	2.36	2.30	2.38	2.28	2.18	2.28	2.20	2.26	2.20	2.36	2.17	2.46	2.19	2.2	2.58	2.42	68.47	2.28
Temperature	C	15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0	4.0	4.0	5.0	7.0	7.0	7.0	8.0	7.0	7.0	10.0	11.0	10.0	9.0	9.0	9.0	162.0	5.4
Fluoride used (Total Daily Consumption)	kg	n/a	23.0	25.0	25.0	26.0	25.0	24.0	25.0	23.0	24.0	23.0	23.0	23.0	23.0	23.0	22.0	22.0	21.0	25.0	25.0	29.0	26.0	24.0	26.0	25.0	25.0	24.0	24.0	24.0	35.0	24.0	736.0	24.5
Chlorine used (Total Daily Consumption)	kg	n/a	19.0	20.0	19.0	21.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	21.0	20.0	22.0	19.0	20.0	20.0	20.0	19.0	23.0	20.0	20.0	21.0	21.0	20.0	21.0	20.0	21.0	17.0	21.0	605.0	20.2
Soda ash (Total Daily Consumption)	kg	n/a	177.1	176.8	180.6	185.5	181.0	176.8	181.3	182.4	181.7	177.8	181.7	182.0	185.5	181.0	182.7	181.7	174.7	177.8	172.9	202.0	181.3	183.1	181.3	183.1	185.5	178.9	181.7	182.0	133.7	186.9	5399.8	180.0
Soda Ash - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0
Alum residual - (Total Daily Consumption)	kg	n/a	177.1	176.8	180.6	185.5	181.0	176.8	181.3	182.4	181.7	177.8	181.7	182.0	185.5	181.0	182.7	181.7	174.7	177.8	172.9	202.0	181.3	183.1	181.3	183.1	185.5	178.9	181.7	182.0	133.7	186.9	5399.8	180.0
Alum residual - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0
Alum residual - Treated Water	mg/l	0.1		0.03	0.05	0.03	0.04	0.05	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.09	0.06	0.06	0.06	0.06	0.07	0.05	0.05	0.06	0.05	0.05	0.09	0.05	1.49	0.05
Poly bags added (25 kg bags)	kg			0.5							0.5					0.5							0.5					0.5					62.5	

July 29, 2020

Report To: Mayor & Council

From: Travis Rob, P.Eng., Manager of Operations & Facilities

SUBJECT: May 2020 Drinking Water Systems Monthly Summary Report

Please find attached the May 2020 Summary Report on the drinking water systems, prepared by Brad Webb, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the May 2020 report as presented.

Respectfully submitted,
Operations & Facilities Division

Travis Rob, P.Eng.
Manager of Operations & Facilities

Council approval of this report will accept the May 2020 report prior to it being made available to the general public.

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Brad Webb, ORO, Senior WTP Operator

RECOMMENDED
AUG 05 2020
DIV. MNG.
EXECUTIVE COMM.

May 2020

Monthly Summary Report
Water Systems

Prepared by: Brad Webb, ORO
Senior Water Treatment Plant Operator

Dated: June 16, 2020

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of May 2020 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works No. 849N7DGE0 (Precedes Airport Groundwater Well Water Works No. 26002736). This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act. The water treatment plant falls under the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

The Airport Small Drinking Water System, System No. 849N7DGE0, was put into service August 01, 2017. The system falls under the requirements of Ontario Regulation 319/08 – Small Drinking Water Systems.

2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet.

Airport Groundwater Well:

Estimated Daily Usage .21m3

May Usage 6.51 m3

3) **Microbiological (Health Related) Water Analysis - Main Water System No. 220000978:**

Water Treatment Plant (treated): 4 samples taken no adverse results
Water Treatment Plant (raw): 4 samples taken no adverse results
Water Distribution System: 16 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) - no adverse results.

We take microbiological samples on a weekly basis, which includes 1 raw sample, 1 treated sample and 4 distribution samples. The 4 distribution samples are taken at different locations throughout the distribution system.

Water distribution samples taken at the following locations:

1.943 Third St. E.	2. 401 Kings Hwy.	3. 1319 Col Rd. W.	4. W. Tower
5. 1111 First St. E.	6. 1319 Col Rd. W.	7. 901 Wright Ave.	8. W. Tower
9. 1017 Cornwall Ave.	10. 401 Kings Hwy.	11. 1319 Col Rd. W.	12. W. Tower
13.1017 Cornwall Ave.	14. 401 Kings Hwy.	15. 1319 Col Rd. W.	16. W. Tower

4) **Microbiological (Health Related) Water Analysis - Airport Groundwater Well No. 849N7DGE0:**

New drinking water system put online August 01, 2017. No treatment required as the Airport groundwater tested negative for bacteria.

The Airport drinking water system is to be sampled and tested for bacteria once every three (3) months in accordance with Section 25 – Microbiological Sampling and Testing of the Small Drinking Water Systems Regulation, O. Reg. 319/08.

Water distribution sample taken February 5, 2020 – no adverse results.

5) **Free Available Chlorine Residual (FAC) - Main Water System No. 220000978:**

FAC residuals are taken at a minimum daily at both the Water Treatment Plant and within the Water Distribution System.

6) **Free Available Chlorine Residual (FAC) - Airport Groundwater Well System No. 849N7DGE0:**

New drinking water system put on line August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

7) **Maintenance Activities at the WTP:**

May 05th worked on settled water sample pump.

May 7th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.
-replaced settled water sample pump.
-replaced in-line mixer gaskets.

May 11th - calibrated the Distribution Chlorine Analyzer.
-took grab samples off filters.

May 14th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit

May 20th -repaired impeller on clarifier # 1.
-flushed poly line to clarifier # 1.

May 21st - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.

May 28th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.
-calibrated fluoride analyzer.
-took grab sample off filters.

May 29th -ran generator for 1 hour.
-calibrated fluoride analyzer.

8) **Water Complaints:**

- Poor Pressure – 0 complaints.
- Water quality – 0 complaints.

9) **Other Miscellaneous Information:**

May 4th - took weekly routine micro samples.
-received a load of alum.

May 7th -ordered calcium hypochlorite.
-ordered cl2 reagents.

May11th - took weekly routine micro samples.
-took samples at Rainy Lake Square.
-took samples on Scott St. construction.1st set.
-painted at plant.

May 12th -took samples on Scott St. construction.2nd set.
-painted at plant.

May 13th -painted at plant.

May 14th - painted at plant.

May 15th - painted at plant.

May 19th - took weekly routine micro samples.

May 25th - took weekly routine micro samples.

10) In order to acknowledge that all levels of responsibility within the Corporation of the Town of Fort Frances have received and reviewed this monthly report, it is necessary to sign-off in the appropriate location below:

- Brad Webb, ORO, Senior WTP Operator: _____
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Doug Brown, P.Eng. CAO: _____
- Rick Wiedenhoeft, Chair O & F Exec Committee: _____
- June Caul, Mayor: _____
- John McTaggart, Councillor: _____
- Mike Behan, Councillor: _____
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- Doug Judson, Councillor: _____
- Andrew Hallikas, Councillor: _____

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Monthly Report May 2020

Town of Fort Frances - WTP - 220000978
May 2018 v 2019 v 2020

Flow and Operating Data

Flow Data MAY	Units	2018		2019		2020	
Total Raw Water	m^3		191512		162710		162350
Raw Maximum Day	m^3		6780		6180		5410
Raw Minimum Day	m^3		4970		4760		4910
Raw Average Daily Consumption	m^3		5310		5250		5240
Total Treated Water	m^3		112970		105850		111690
Treated Water Maximim Day Consumption	m^3		4130		4180		4960
Treated Water Minimim Day Consumption	m^3		3060		2760		2840
Treated Water Average Day Consumption	m^3		3640		3410		3600
Daily Average Per Household Consumption Rate	m^3		0.96		0.90		
* Daily Average Per Person Consumption Rate	m^3		0.46		0.43		0.45
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		2.07		2.15		1.94
Total Chlorine Residual - Treated Water	mg/L		2.30		2.38		2.22
Aluminum Sulphate - Raw Water	mg/L		35.00		35.00		34.13
Aluminum Sulphate - Treated Water Residual	mg/L		0.03		0.03		0.04
Fluoride - Treated Water	mg/L		0.71		0.73		0.72
Soda Ash - Raw Water	mg/L		35.00		35.00		36.74
pH - Adjusted			7.11		7.03		6.71
Temperature	°C		9.50		8.84		10.77
Quantity of Chemical Used:							
Aluminum Sulphate	kg		7416.50		5694.90		5964.61
Polyelectrolyte	kg		112.5		87.5		62.5
Chlorine Gas	kg		671		676		666
Soda Ash - Used for pH Adjustment	kg		7416.50		5694.90		5541.07
Fluoride	kg		583		478		734

* The Canadian Average is 450 Litres (0.45 m^3) per day.
* Population is 7986
* Number of Households is 3783

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
May 2020

Operating Data	Units	*MAC or Range	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	Average	Maximum	Minimum	
Flow rates																																						
Raw Water	10^3 M^3	17	5.30	5.29	5.38	5.30	5.31	5.33	5.36	5.07	5.31	5.19	5.09	5.22	5.20	5.10	5.31	5.11	5.21	5.21	5.33	5.20	5.21	5.24	4.91	5.22	5.34	5.39	5.23	5.17	5.33	5.41	5.18	162.45	5.24	5.41	4.91	4.91
Peak Instantaneous - Raw Water	L/s	n/a																																	#DIV/0!	0.00	0.00	0.00
Treated Water	10^3 M^3	17	3.35	3.74	2.84	3.20	3.51	3.34	3.74	3.07	3.40	3.36	3.18	3.73	3.97	3.13	3.32	3.20	3.35	3.43	4.07	4.19	4.38	4.96	3.30	3.57	3.95	4.12	4.04	3.53	3.95	3.45	3.34	128.69		4.96	2.84	2.84
Peak Instantaneous - Treated Water	L/s	n/a																																	#DIV/0!	0.00	0.00	0.00
BackWash Water	10^3 M^3	n/a	0.279	0.162	0.251	0.278	0.263	0.250	0.279	0.000	0.262	0.251	0.277	0.263	0.247	0.277	0.263	0.252	0.280	0.262	0.255	0.279	0.261	0.252	0.279	0.261	0.253	0.280	0.262	0.247	0.279	0.262	0.247	7.81	0.25	0.28	0.00	0.000
Fluoride Information																																						
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.78	0.79	0.78	0.76	0.78	0.79	0.66	0.68	0.69	0.67	0.67	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.75	0.76	0.74	0.75	0.75	0.74	0.74	0.74	0.75	0.77	0.66	0.63	0.62	22.26	0.72			
Turbidity Information																																						
Raw Water	NTU	n/a	1.02	0.97	1.10	1.29	1.38	1.43	1.67	1.49	1.41	1.44	1.47	1.43	1.51	1.46	1.55	1.48	1.44	1.50	1.49	1.40	1.04	1.26	0.91	1.05	1.06	1.22	1.07	1.22	1.31	1.35	1.22	40.64	1.31			
Settled Water	NTU	n/a	0.59	0.56	0.52	0.48	0.41	0.32	0.19	0.15	0.14	0.12	0.26	0.20	0.19	0.20	0.17	0.37	0.28	0.22	0.33	0.31	0.28	0.30	0.23	0.25	0.22	0.28	0.27	0.36	0.25	0.33	0.32	9.10	0.29			
Treated Water	NTU	1	0.31	0.28	0.20	0.24	0.25	0.37	0.21	0.20	0.14	0.10	0.20	0.11	0.13	0.11	0.11	0.12	0.11	0.10	0.12	0.13	0.18	0.19	0.01	0.04	0.17	0.17	0.16	0.19	0.17	0.19	0.21	5.22	0.17			
Other Operating Parameters																																						
pH - Treated Water	no units	6.5 to 8.5	6.94	7.13	6.96	6.99	6.77	6.78	6.79	6.91	7.00	7.05	7.01	7.00	7.03	7.00	7.02	7.01	7.00	7.02	6.81	6.82	6.78	6.81	6.82	6.77	6.75	6.84	6.85	6.90	6.84	6.85	6.83	214.08	6.91			
pH - Settled water	no units	n/a	6.26	6.28	6.31	6.27	6.40	6.38	6.32	6.24	6.31	6.35	6.19	6.28	6.34	6.36	6.41	6.39	6.29	6.34	6.21	6.08	6.22	6.27	6.25	6.33	6.20	6.12	6.21	6.20	6.24	6.20	6.28	194.53	6.28			
pH - Raw Water	no units	n/a	6.85	6.80	6.88	6.79	6.60	6.75	6.78	6.77	6.75	6.77	6.68	6.66	6.71	6.70	6.73	6.79	6.83	6.80	6.78	6.78	6.79	6.77	6.77	6.73	6.73	6.66	6.71	6.69	6.66	6.70	6.73	209.14	6.75			
FAC - Treated Water	mg/l	0.2 to 4	2.18	2.11	2.04	2.13	2.15	2.07	1.92	1.85	1.92	1.96	1.90	1.92	1.98	1.90	1.87	1.92	1.94	1.87	1.98	1.88	1.94	2.02	1.96	1.87	2.04	1.83	1.80	1.70	1.76	1.70	2.04	60.15	1.94			
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.40	2.32	2.22	2.36	2.42	2.36	2.26	2.04	2.07	2.17	2.22	2.24	2.32	2.34	2.26	2.17	2.24	2.26	2.20	2.20	2.42	2.18	2.22	2.20	2.20	2.15	2.09	1.90	2.06	1.99	2.40	68.88	2.22			
Temperature	C	15	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.0	11.0	12.0	9.0	8.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	13.0	13.0	13.0	13.0	12.0	13.0	12.0	12.0	11.0	11.0	12.0	332.00	10.71			
Fluoride used (Total Daily Consumption)	kg	n/a	23.0	23.0	24.0	22.0	23.0	23.0	24.0	28.0	26.0	25.0	25.0	25.0	25.0	24.0	24.0	23.0	24.0	23.0	24.0	23.0	21.0	22.0	21.0	24.0	25.0	24.0	23.0	23.0	23.0	24.0	23.0	734.00	23.68			
Chlorine used (Total Daily Consumption)	kg	n/a	22.0	21.0	22.0	21.0	21.0	22.0	22.0	22.0	20.0	20.0	20.0	21.0	21.0	20.0	21.0	20.0	20.0	21.0	23.0	22.0	22.0	22.0	21.0	22.0	22.0	22.0	23.0	22.0	22.0	21.0	25.0	666.00	21.48			
Soda ash (Total Daily Consumption)	kg	n/a	185.5	185.2	188.3	185.5	196.5	197.2	198.3	187.6	196.5	192	188.3	193.1	192.4	188.7	196.5	189.1	192.8	192.8	197.2	192.4	192.8	193.9	181.7	193.1	197.6	199.4	193.5	191.3	197.2	200.2	191.7	1058.00				
Soda Ash - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	1139.00	36.74			
Alum residual - (Total Daily Consumption)	kg	n/a	185.5	185.2	188.3	185.5	180.5	181.2	182.2	172.4	180.5	176.5	173.1	177.5	176.8	173.4	180.5	173.7	177.1	177.1	181.2	176.8	177.1	178.2	166.9	177.5	181.6	183.3	177.8	175.8	181.2	183.9	176.1	4675.78				
Alum residual - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	#REF!	34.13			
Alum residual - Treated Water	mg/l	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	#REF!	#REF!			
Poly bags added (25 kg bags)	kg																																	0.00	#DIV/0!			

July 28, 2020

Report To: Mayor & Council

From: Travis Rob, P.Eng., Manager of Operations & Facilities

SUBJECT: June 2020 Drinking Water Systems Monthly Summary Report

Please find attached the June 2020 Summary Report on the drinking water systems, prepared by Brad Webb, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the June 2020 report as presented.

Respectfully submitted,
Operations & Facilities Division

Travis Rob, P.Eng.
Manager of Operations & Facilities

Council approval of this report will accept the June 2020 report prior to it being made available to the general public.

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Brad Webb, ORO, Senior WTP Operator

RECOMMENDED
DIV. MNG. AUG 05 2020
EXECUTIVE COMM.

June 2020

Monthly Summary Report
Water Systems

Prepared by: Brad Webb, ORO
Senior Water Treatment Plant Operator

Dated: July 15, 2020

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of June 2020 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works No. 849N7DGE0 (Precedes Airport Groundwater Well Water Works No. 26002736). This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act. The water treatment plant falls under the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

The Airport Small Drinking Water System, System No. 849N7DGE0, was put into service August 01, 2017. The system falls under the requirements of Ontario Regulation 319/08 – Small Drinking Water Systems.

2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet.

Airport Groundwater Well:

Estimated Daily Usage	0.21 m3
Estimated June Usage	6.3 m3

3) **Microbiological (Health Related) Water Analysis - Main Water System No. 220000978:**

Water Treatment Plant (treated): 4 samples taken no adverse results
Water Treatment Plant (raw): 4 samples taken no adverse results
Water Distribution System: 16 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) - no adverse results.

1 Adverse Sample from Point Park Camprground – reopening sample
Re-sampled per MECP requirements and tested okay.

We take microbiological samples on a weekly basis, which includes 1 raw sample, 1 treated sample and 4 distribution samples. The 4 distribution samples are taken at different locations throughout the distribution system.

Water distribution samples taken at the following locations:

1.940 Third St. E.	2. 401 King's Hwy.	3. 901 Wright Ave.	4. W. Tower
5. 943 Third St. E.	6. 401 King's Hwy.	7. 901 Wright Ave.	8. W. Tower
9. 1111 First St E.	10. 1324 Kings Hwy.	11. 901 Wright Ave.	12. W. Tower
13.1017 Cornwall Ave.	14. 401 King's Hwy.	15. 901 Wright Ave.	16. W. Tower

4) **Microbiological (Health Related) Water Analysis - Airport Groundwater Well No. 849N7DGE0:**

New drinking water system put online August 01, 2017. No treatment required as the Airport groundwater tested negative for bacteria.

The Airport drinking water system is to be sampled and tested for bacteria once every three (3) months in accordance with Section 25 – Microbiological Sampling and Testing of the Small Drinking Water Systems Regulation, O. Reg. 319/08.

Water distribution sample taken June 23, 2020 – no adverse results.

5) **Free Available Chlorine Residual (FAC) - Main Water System No. 220000978:**

FAC residuals are taken at a minimum daily at both the Water Treatment Plant and within the Water Distribution System.

6) **Free Available Chlorine Residual (FAC) - Airport Groundwater Well System No. 849N7DGE0:**

New drinking water system put on line August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

7) **Maintenance Activities at the WTP:**

June 01st -Changed membrane on Chlorine analyzer.

June 03rd -Calibrated chlorine analyzer.

June 04th - Cleaned top and bottom tanks on poly unit.
- Cleaned all four (4) check valves on poly unit.

June 09th - Calibrated distribution chlorine analyzer.

June 11th -pulled motor off back wash pump and replaced it with spare motor.
- Cleaned top and bottom tanks on poly unit.
- Cleaned all four (4) check valves on poly unit.

June 12th - Took grab samples off the filters.
-Calibrated fluoride analyzer.

June 17th - Calibrated fluoride analyzer.

June 24th -Took grab samples off the filters.
June 25th - Cleaned all four (4) check valves on the poly unit.

June 26th - Cleaned top and bottom tanks on poly unit.

8) **Water Complaints:**

- Poor Pressure – 0 complaints.
- Water quality – 0 complaints.

9) **Other Miscellaneous Information:**

June 01st - Routine micro sample collection.

June 03rd -first set of bacti samples on Colonization Rd. West.

June 04th -first set of bacti samples on Scott St from Reid Ave. to Mini Ave.
- second set of bacti samples on Colonization Rd. West.

June 05th -second set of bacti samples on Scott St from Reid Ave. to Mini Ave.

June 08th - Routine micro sample collection.

June 09th – resampled on Scott St from Reid Ave. to Mini Ave. first set never got to lab on time.

June 10th -Backwash pump blew up took off line.

June 15th - Routine micro sample collection.
-took seasonal samples at Point Park.
-took samples at Colonization Road West Temp Main. 1st set.

June 16th -took samples at Colonization Road West Temp Main. 2nd set.
-took samples for tie in at Reid Ave. and Scott St. 1st set.

June 17th -Adverse Sample at Point Park seasonal line.
-Called all the appropriate people.
-Resampled Point Park.
-took samples for tie in at Reid Ave. and Scott St. 2nd set.

June 18th -took samples for tie in at Mini Ave. and Scott St. 1st set.

June 22nd - Routine micro sample collection.
-took samples for tie in at Mini Ave. and Scott St. 2nd set.
-took seasonal samples at Sorting Gap Marina.

June 23rd -Did Quarterly samples.

June 24th-Changed chlorine tank.
Took samples for Church St. watermain repair. 1st set.

June 25th - Took samples for Church St. watermain repair. 2nd set.

June 29th - Routine micro sample collection.

10) In order to acknowledge that all levels of responsibility within the Corporation of the Town of Fort Frances have received and reviewed this monthly report, it is necessary to sign-off in the appropriate location below:

- Brad Webb, ORO, Senior WTP Operator: _____
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Doug Brown, P.Eng. CAO: _____
- Rick Wiedenhoeft, Chair O & F Exec Committee: _____
- June Caul, Mayor: _____
- John McTaggart, Councillor: _____
- Mike Behan, Councillor: _____
- Wendy Brunetta, Councillor: _____
- Doug Judson, Councillor: _____
- Andrew Hallikas, Councillor: _____

Note: Once all signatures have been obtained, the report will be distributed and made available to the public. If you have any questions, please feel free to contact myself or Brad Webb, Senior WTP Operator at 274-2325.

Town of Fort Frances - WTP - 220000978
June 2018 v 2019 v 2020

Flow and Operating Data

Flow Data JUNE	Units	2018		2019		2020	
Total Raw Water	m^3		160740		161220		169000
Raw Maximum Day	m^3		5660		6910		6060
Raw Minimum Day	m^3		5120		5060		5110
Raw Average Daily Consumption	m^3		5360		5370		5630
Total Treated Water	m^3		119760		110860		115660
Treated Water Maximim Day Consumption	m^3		5080		4760		5380
Treated Water Minimim Day Consumption	m^3		2990		3060		2960
Treated Water Average Day Consumption	m^3		3990		3700		3860
Daily Average Per Household Consumption Rate	m^3		1.055		0.978		1.020
* Daily Average Per Person Consumption Rate	m^3		0.500		0.463		0.483
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		1.94		2.11		1.96
Total Chlorine Residual - Treated Water	mg/L		2.23		2.40		2.21
Aluminum Sulphate - Raw Water	mg/L		35.00		35.00		37.00
Aluminum Sulphate - Treated Water Residual	mg/L		0.02		0.02		0.04
Fluoride - Treated Water	mg/L		0.70		0.73		0.68
Soda Ash - Raw Water	mg/L		35.00		35.00		34.00
pH - Adjusted			7.14		7.30		6.97
Temperature	ºC		18.87		15.60		16.20
Quantity of Chemical Used:							
Aluminum Sulphate	kg		5625.90		5642.70		6253.00
Polyelectrolyte	kg		112.50		62.50		62.50
Chlorine Gas	kg		767.00		765.00		799.00
Soda Ash - Used for pH Adjustment	kg		5625.90		5642.70		5746.00
Fluoride	kg		489.00		681.00		751.00

* The Canadian Average is 450 Litres (0.45 m^3) per day.
* Population is 7986
* Number of Households is 3783

August 4, 2020

Report To: Mayor and Council

From: Aaron Bisson, Manager of Recreation and Culture

RE: Marina Washrooms

There has been a lot of discussion around washroom availability at the Sorting Gap Marina in 2020. Due to COVID and the physical changes in the layout of the building along with cleaning/sanitizing requirements it has been impossible to allow our public washrooms to be open. Staff and the public's health and safety must be our number one priority. With COVID in relation to the food service industry there are stricter guidelines than ever before, with these additional requirements our staff are seeing much higher demands on their time to meet these guidelines to ensure not only their safety but the safety of the public. Having said that, asking the staff to clean and sanitize the washrooms would cause a disruption in service elsewhere. The service we provide our customers would suffer, the ability to spend the required amount of time to ensure safe and sanitary washrooms may be jeopardized if the staff feel rushed because of large customer volumes in the marina.

We have had a couple of different suggestions lately which I will bring to your attention now. One suggestion was to allow a single washroom to be used as a unisex washroom. This would allow the staff one private washroom where they could maintain their own sanitary requirements. It would also allow them a means of egress from the building when having to go fuel up a watercraft among other jobs. This option would require some modifications to the building such as a deadbolt lock that could be locked from the inside to allow a person private use of the washroom. This option would require the Town to recruit an additional person in parks or public works to complete this task as it is union work and thus an outside contractor could not be enlisted to clean the washroom. At this time, we are actively looking for individuals in those departments, but it is expected to take two to four weeks to complete that process at which time the Marina would be getting ready to close for the season. We could pull staff from other jobs such as from the cemetery or grass cutting but a reduction in service in those areas would be realized.

The second suggestion was to have a porta potty or a couple of porta potty's placed at the sight. The cost to have this cleaned twice a day is $250.00 a day or approximately $7,500.00/per porta potty for the next 30 days. If council would like to offer a washroom service at the Marina this is the quickest option, but it comes at a significant cost.

In 2021 we will be looking at opening the washrooms having a full complement of staff and the appropriate budget to do this.

Respectfully Submitted,

Aaron Bisson
Manager of Recreation and Culture

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Fort Frances WPCP
200 McIrvine Rd
Fort Frances, Ontario
P9A 3S3
Tel: 807-274-3121
Fax: 807-274-8381

July 13, 2020

Town of Fort Frances
320 Portage Avenue
Fort Frances Ontario
P9A 3M5

Attention: Mr. Craig Miller
Environmental Superintendent

Dear Craig:

Re: Fort Frances Wastewater Treatment Facility
June 2020 Monthly Report

As per the operating agreement, the attached document is the June 2020 monthly report for the Fort Frances Wastewater Treatment Facility.

The report highlights the influent and effluent quality and the process parameters. Additionally, the routine operation and maintenance activities conducted by the operators are summarized.

If you have any questions regarding this report do not hesitate to contact Mr. Brad McMahon, Senior Operations Manager.

Yours truly,

Kelly Cunningham
Team Lead

For Brad J. McMahon
Senior Operations Manager

The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
June 2020 Monthly Operations Report

INTRODUCTION

In accordance with the Agreement between the Ontario Clean Water Agency (Operating Authority) and the Town of Fort Frances, the Fort Frances Sewage Treatment Plant is required to prepare a monthly report. This document covers the reporting month of June 2020; the facility performance report summarizes important information regarding the quality of the effluent, wastewater, analytical test results, maintenance operations, and relevant activities of the WWTP.

DESCRIPTION OF WORKS

Capacity of Works	9000 m^3/day (average flow)
Service Area	Town of Fort Frances and Couchiching Reserve
Service Population	9000
Effluent Receiver	Rainy River
Major Process	Secondary treatment facility complete with a phosphorus removal system; ultra violet disinfection; aerobic sludge stabilization and dewatering

The Fort Frances Sewage Treatment Plant operates under *Environmental Compliance Approval Number 6786-A44PWG*. The ECA outlines the terms and conditions, and the report captures these terms and conditions in the following sections.

LABORATORY

ALS Laboratory Group – Thunder Bay is contracted to conduct the required analytical tests of the influent (raw) and effluent samples; weekly requirement.

JUNE 2020 EFFLUENT QUALITY

Parameters	***Monthly Actual Concentration* mg/L**	***Compliance Criteria Concentration* mg/L**	***Performance Objective Concentration* mg/L**	***Monthly Actual Loading, kg/d***	***Compliance Criteria Loading kg/d***	***Performance Objective Loading* kg/d**
$CBOD_5$	2.3 mg/L	25 mg/L	15 mg/L	13.7 kg/d	225 kg/d	135 kg/d
Total Suspended Solids	3.8 mg/L	25 mg/L	15 mg/L	23.7 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.13 mg/L	1.0 mg/L	0.9 mg/L	0.81 kg/d	9 kg/d	8.1 kg/d
Total Nitrogen Nitrate Nitrogen	12.48 mg/L 5.46 mg/L					
Total Cl_2 Residual		<0.01 mg/L (when in use)				
E-Coli	15.2 count/100 ml (geometric mean)		200 count/100ml (geometric mean)		E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)	
pH			pH range 6.9 to 7.2; average pH was 7.1			
Temperature degrees C			Temperatures ranged from 10.5 to 14.0 C; average temperature of effluent was 12.0 C			

Compliance criteria are mandatory requirements of the ECA and performance objectives are a goal to be achieved using best reasonable efforts.

WASTEWATER LIQUID PROCESS

The average daily flow for June was 6308.4 m^3 /day. This represents 70% of the design average flow. Total treated flow for the month was 189252 m^3.
The Fort Frances WWTP met all effluent compliance criteria for the parameters listed above and additionally was well within the recommended more stringent monthly performance objectives as outlined in the Environmental Compliance Approval.

MAINTENANCE

The operators performed the routine operations and maintenance at the treatment plant and pumping stations. The activities are highlighted as follows and a summary will be included:

Treatment Plant:

- Alternated lead/lag pumps
- Adjusted fluidizing water to head cell and grit snail as needed
- Greased all blowers
- Regular cleaning of head works EW basket strainer
- Greased Grit Snail and lubricated drive chain
- Monthly inspection of spiral screen access hatch, removed wrapped debris
- Weekly manifold wash and restrictor cleaning on the Fournier press
- Drained and inspected teacup, hosed snail
- Flushed digester level sensor
- Cleaned DO probes
- Calibrated both DO probes to saturated DO reference

Pump Stations:

- Ran gensets
- Changed seal water strainers

PROCESS AND OPTIMIZATION ISSUES

SLUDGE SUMMARY

Dennis Robinson Limited hauled a calculated total of 131.0 m3 (13 bins) of thickened digested sludge to the Town of Fort Frances landfill site. The hauled sludge averaged 17.9% TS for the month but slump test results from the landfill site have not been provided.
The Fournier press ran for 149.6 hours in the past month.

COMPLAINTS

There were no complaints during the report period.

BYPASS/OVERFLOW REPORT(S)

There were no bypass events in the reporting period.

COMMENTS

Plant power consumption for the month was 446 (x 180 multiplier) kWh.
The Fournier press has been operated 822.4 hours in 2020.

REPORTS

ALS – Environmental Analytical Reports (on-file at plant)
Fort Frances WPCP Equipment Run Time Report (on-file at plant)
Bypass Report (on-file at plant as per occurrence)
Incident Report (on-file at plant as per occurrence)

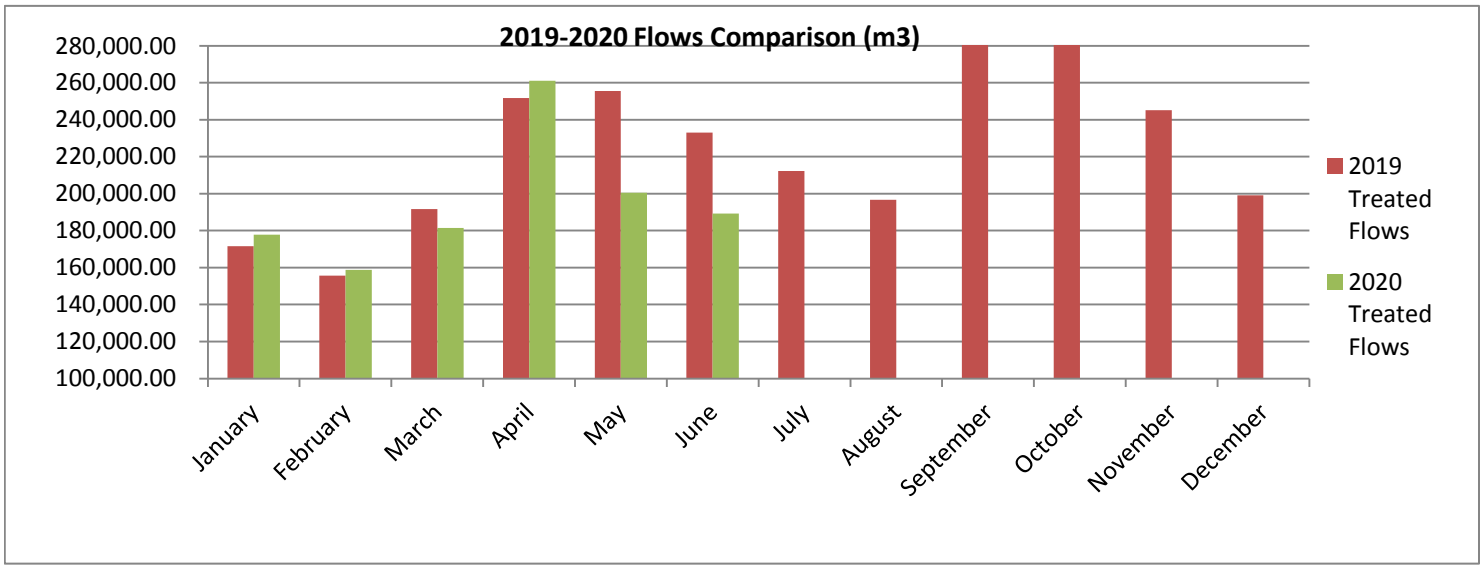
2020 Fort Frances Wastewater

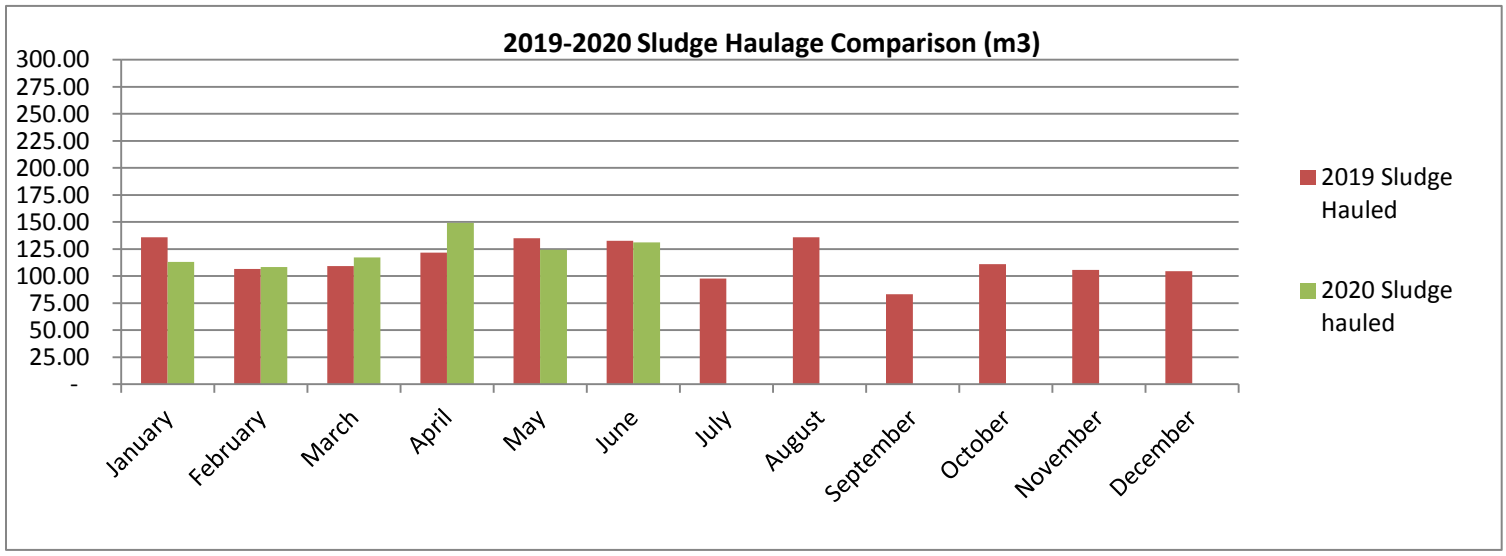
Month	Avg. Day Flow m3	Sewage Flows Year 2020: Max Day Flow m3	Total Treated Volume ML	Total ByPass Volume ML	Total Volume ML	Usage % Plant Capacity	Calculated Volume Hauled M3	Sludge Bins Hauled
January	5733.8	6060	177747		177747	64%	113.2	12
February	5477.0	5861	158832		158832	61%	108.2	11
March	5852.1	8845	181415		181415	65%	117.1	12
April	8705.3	12162	261159		261159	97%	149.3	15
May	6468.6	7612	200528		200528	72%	124.4	12
June	6308.4	10580	189252		189252	70%	131	13
July						0%		
August						0%		
September						0%		
October						0%		
November						0%		
December						0%		
Sum				0	1168933		743.2	75
Average	6424		194822		194822	67%	123.9	12.5
Max		12162	261159		261159			15
ECA	9000	18000						

Removal Efficiency	
CBOD5	0.958601134
Suspended Solids	0.968003657
Total Phosphorus	0.94935806

	BOD5/CBOD5			Suspended Solids			Total Phosphorus			Nitrogen		E. Coli	pH	
Month	Avg. Raw BOD (mg/L)	Avg. Eff. CBOD (mg/L)	Avg. Load CBOD (kg/day)	Avg. Raw S.S (mg/L)	Avg. Eff. S.S (mg/L)	Avg. Load S.S (kg/day)	Avg. Raw T.P (mg/L)	Avg. Eff. T.P (mg/L)	Avg. Load T.P (kg/day)	Avg. Raw TKN (mg/L)	Avg. Eff. Total N (mg/L)	Geo Mean Counts /100ml	Monthly Minimum	Monthly Maximum
January	92.6	2.9	16.4	167.8	4.9	28.2	2.59	0.14	0.82	16.2	12.5	44.6	6.3	6.6
February	112.0	9.0	15.9	163.1	5.0	27.2	3.38	0.12	0.67	16.4	13.0	22.1	6.4	7.5
March	99.2	2.6	16.2	149.8	5.3	31.4	2.68	0.11	0.68	21.9	12.4	33.1	7.0	7.6
April	69.8	2.9	24.2	106.4	5.1	45.8	1.88	0.11	0.96	14.5	10.1	49.0	7.0	7.4
May	75.8	2.2	14.2	133.1	3.9	25.2	1.90	0.10	0.63	16.2	12.3	14.1	7.0	7.3
June	79.6	2.3	13.7	154.9	3.8	23.7	1.59	0.13	0.81	17.5	12.5	15.2	6.9	7.2
July														
August														
September														
October														
November														
December														
Average	88.2	3.7	16.8	145.9	4.7	30.3	2.3	0.12	0.76	17.1	12.1	29.7	6.8	7.3
Max	112	9	24.2	167.8	5.3	45.8	3.4	0.14	0.96	21.9	13	49	7	7.6
ECA		25	225		25	225		1.0	9.0			200	6.0	9.5

2019-2020 Comparison Chart						
Month	2019 Treated Sewage	2020 Treated Sewage	% Variance 2019 to 2020	2019 Hauled Sludge	2020 Hauled Sludge	% Variance 2019 to 2020
	m3	m3	m3	m3 (calculated)	m3 (calculated)	m3
January	171,621.00	177,747.00	3%	136.00	113.20	-17%
February	155,707.00	158,832.00	2%	106.70	108.20	1%
March	191,603.00	181,415.00	-6%	109.20	117.10	7%
April	251,711.00	261,159.00	4%	121.60	149.30	23%
May	255,574.00	200,528.00	-27%	135.00	124.40	-8%
June	233,001.00	189,252.00	-23%	132.60	131.00	-1%
July	212,351.00		#DIV/0!	97.70		-100%
August	196,772.00		#DIV/0!	136.00		-100%
September	315,918.00		#DIV/0!	83.10		-100%
October	441,076.00		#DIV/0!	111.10		-100%
November	245,097.00		#DIV/0!	105.70		-100%
December	199,047.00		#DIV/0!	104.50		-100%
Totals	2,869,478.00	1,168,933.00	-145%	1,379.20	743.20	-46%





Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Workorder Summary Report

Report Start Date: Jun 1, 2020 12:00 AM
Report End Date: Jun 30, 2020 11:59 PM
Location: 1103*
Work Order Type: ADMIN,CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
1793861	0000246428	PUMP CENT BOUNDARY P1	1103, Boundary Pumping Station, Process	CALL	Refurbish/ Replace/Repair	0		Boundary LS High Level Alarm 1103	COMP		6/22/20 02:02 PM	6/22/20 02:07 PM	Boundary Lift Station High Level Alarm -I arrived at the plant to find the lift station to be acting normal so I reset the alarm and monitored , No further issues.
1790876	0000246436	PANEL CONTROL PCL	1103, Boundary Pumping Station, Facility	CALL	Refurbish/ Replace/Repair	0		Boundary Rd fire alarm call in 1103	COMP		6/2/20 04:00 AM	6/2/20 06:00 AM	Boundary Rd fire alarm call in 1103 -I was called for a Boundary Rd. fire alarm at 0400 hours. After driving to the plant I found that there were several alarms for Boundary road lift station visible on the SCADA screens. They all cleared and the station was functioning properly so this was just a PLC glitch.
1764373			1103, Fort Frances WPCP, Facility, Safety Equipment	PM	Health and Safety	1	YEARS	Fire extinguishers annual inspections (1y)	COMP	6/1/20 12:00 AM	6/3/20 09:08 AM	6/3/20 09:08 AM	Fire extinguishers annual inspections (1y) -SPI completed the annual inspections on May 21st
1787168	0000227376	PANEL ALARM/ DIALER	1103, Fort Frances WPCP, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 1103	COMP	6/1/20 12:00 AM	6/22/20 02:11 PM	6/22/20 02:11 PM	Dialer -We test everyday. Dale Hughes
1787172			1103, Fort Frances WPCP	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Gensets Inspection/ Functional Tests (1m) 1103	COMP	6/1/20 12:00 AM	6/14/20 02:53 PM	6/14/20 02:53 PM	Diesel Gensets Inspection/ Functional Tests (1m) 1103 -Exercised all generators 1 hour
1787188			1103, Fort Frances WPCP	PM	Health and Safety	1	YEARS	Fire Protection System Inspection (1y) 1103	COMP	6/1/20 12:00 AM	6/28/20 02:19 PM	6/28/20 02:19 PM	
1787191			1103, Fort Frances WPCP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1103	COMP	6/1/20 12:00 AM	6/19/20 07:00 AM	6/19/20 08:00 AM	Monthly H&S -No Issues this month.
1787202			1103, Fort Frances WPCP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1103	COMP	6/1/20 12:00 AM	7/1/20 12:59 PM	7/1/20 12:59 PM	
1787525			1103, Fort Frances WPCP	PM	Inspection	1	MONTHS	Blowers/Motors Inspection/Service (1m/3m) 1103	COMP	6/1/20 12:00 AM	6/22/20 02:14 PM	6/22/20 02:14 PM	Monthly Blowers -I greased all blowers. Dale Hughes
1787535	0000246402	CENTRIFUGE GS2-2-1 TEACUP/ GRIT SNAIL	1103, Fort Frances WPCP, Process, Primary Treatment, Primary Sludge Degritting	PM	Inspection	1	MONTHS	Teacup Centrifuge Inspection/ Service (1m/3m/1y) 1103	COMP	6/1/20 12:00 AM	6/21/20 01:00 PM	6/21/20 02:00 PM	Teacup -I checked for debris and found very little.

TOWN OF FORT FRANCES

Operations and Facilities Division - Environmental Area - Operations Statistics

April-20

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Repaired water main break at 1322 Colonization Road West
Replaced HYD201 body
Adjusted multiple curbstops and valve boxes
Flushing and valve turning program started
Makkinga mobilized at end of April for Scott Street construction
All training cancelled due to Covid-19
1 external plugged sewer
Pulled sewer mains as required.

WATER TREATMENT PLANT:

April 2020 - In receipt of the Water Treatment Plant Monthly Report
All training cancelled due to Covid-19
J. Bruyere completed winter cross-training at WTP.

WASTE-WATER TREATMENT FACILITY:

April 2020 - In receipt of the Wastewater Treatment Facility Monthly Report.
In receipt of Annual WWTP report by OCWA

WASTE MANAGEMENT:

Garbage Collection:
Garbage not picked up - 13 houses

Sanitary Landfill (Waste Disposal Site):
Landfill Scales functioning during this period.

Amount of residential waste (kg) delivered to the landfill:
284,220

Amount of ICI waste (kg) delivered to the landfill:
315,970

Recycling:
Recycle not picked up - 36 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
No Data (Emterra)

Prepared By: Craig Miller, P.Eng. Environmental Superintendent

Date: 7/31/2020

TOWN OF FORT FRANCES

Operations and Facilities Division - Environmental Area - Operations Statistics

May-20

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Turned on water at point park campground
Veert mobilized at end of May for Col. Rd. West project
Adjusted multiple curbstops and valve boxes
Flushing and valve turning program continues
Support Makkinga with valve turning, flushing and water sample testing.
All training cancelled due to Covid-19

WATER TREATMENT PLANT:

In receipt of the Water Treatment Plant Monthly Report
All training cancelled due to Covid-19

WASTE-WATER TREATMENT FACILITY:

In receipt of the Wastewater Treatment Facility Monthly Report.

WASTE MANAGEMENT:

Garbage Collection:
Garbage not picked up - 29 houses

Sanitary Landfill (Waste Disposal Site):
Landfill Scales functioning during this period.

Amount of residential waste (kg) delivered to the landfill:
384,700

Amount of ICI waste (kg) delivered to the landfill:
386,030

Recycling:
Recycle not picked up - 43 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
No Data (Emterra)

Prepared By: Craig Miller, P.Eng. Environmental Superintendent

Date: 7/31/2020

TOWN OF FORT FRANCES

Operations and Facilities Division - Environmental Area - Operations Statistics

June-20

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Turned on water at Sorting Gap Marina
Adjusted multiple curbstops and valve boxes
Flushing and valve turning program continues
Support Makkinga and Veert with valve turning, flushing and water sample testing.
All training cancelled due to Covid-19
Wessuc pulled sewers and CCTV in west end per year 2 of contract
Repaired water main valve at Church / Minnie
Sink holes discovered at York between 8th and 6th and Crowe / Scott. Both due to sanitary sewer. Crowe/Scott repaired. York in July.

WATER TREATMENT PLANT:

In receipt of the Water Treatment Plant Monthly Report
All training cancelled due to Covid-19

WASTE-WATER TREATMENT FACILITY:

In receipt of the Wastewater Treatment Facility Monthly Report.

WASTE MANAGEMENT:

Garbage Collection:
Garbage not picked up - 23 houses

Sanitary Landfill (Waste Disposal Site):
Landfill Scales were down for approximately 3 weeks due to lightning strike and waiting on parts to arrive. Repairs complete at end of June.
Amount of residential waste (kg) delivered to the landfill:
277,790

Amount of ICI waste (kg) delivered to the landfill:
317,210

Recycling:
Recycle not picked up - 31 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
No Data (Emterra)

Prepared By: Craig Miller, P.Eng. Environmental Superintendent

Date: 7/31/2020

Water Works		Years		
DATE	WORK	2018	2019	2020
Jan	THAW FROZEN WL	1	6	1
	TURN WATER OFF	1	6	
	TURN WATER OFF/ON	4	5	
	TURN WATER ON	5		
Jan Total		11	17	1
Feb	THAW FROZEN WL	27	11	
	TURN WATER OFF	3	3	1
	TURN WATER OFF/ON		5	1
	TURN WATER ON .	3		5
Feb Total		33	19	7
Mar	THAW FROZEN WL	3	27	
	TURN WATER OFF		2	
	TURN WATER OFF/ON	3	3	1
	TURN WATER ON	12	7	2
Mar Total		18	39	3
Apr	SET UP HYDRANT		1	
	THAW FROZEN WL		5	
	TURN WATER OFF	3	2	2
	TURN WATER OFF/ON	1	1	1
	TURN WATER ON	16	24	4
Apr Total		20	33	7
May	CHECK WATER SERVICE		1	
	CONNECTION INSPECTION	1	1	
	TRACE SERVICES		1	
	TURN WATER OFF	3	3	
	TURN WATER OFF/ON	1	3	1
	TURN WATER ON	15	14	4
	TURN WATER ON	1		
May Total		21	23	5
Jun	RAISE CS TO GRADE	1		
	TRACE SERVICES		1	1
	TURN WATER OFF	4	3	
	TURN WATER OFF/ON	3	3	
	TURN WATER ON	4	6	1
Jun Total		12	13	2
Grand Total		115	144	25

Sewer Works		Years		
DATE	WORK	2018	2019	2020
Jan	CCTV SEWER SERVICE	1	1	3
	UNPLUG SANITARY SEWER	20	21	7
Jan Total		21	22	10
Feb	CCTV SEWER SERVICE	2	2	1
	THAW FROZEN SEWER	1		
	UNPLUG SANITARY SEWER	20	10	6
Feb Total		23	12	7
Mar	CCTV SEWER SERVICE	1	1	
	CONNECTION INSPECTION		1	
	UNPLUG SANITARY SEWER	12	9	3
Mar Total		13	11	3
Apr	CCTV SEWER SERVICE	3	6	
	UNPLUG SANITARY SEWER	15	7	1
Apr Total		18	13	1
May	CCTV SEWER SERVICE	1		
	CONNECTION INSPECTION	1	1	1
	THAW FROZEN SEWER	1		
	UNPLUG SANITARY SEWER	15	10	2
May Total		18	11	3
Jun	CCTV SEWER SERVICE		4	1
	CONNECTION INSPECTION		1	1
	TRACE SERVICES		2	
	UNPLUG SANITARY SEWER	14	3	1
	INSTALL SEWER PUMP			1
Jun Total		14	10	4
Grand Total		107	79	28

System Repairs		Years		
DATE	TYPE	2018	2019	2020
Jan	CURBSTOP		1	
	SEWER SERVICE			2
	WATERMAIN	1	1	
Jan Total		1	2	2
Feb	CLEANOUT		2	
	CURBSTOP		8	
	SEWER SERVICE		1	
	WATER SERVICE		2	
Feb Total			13	
Mar	CLEANOUT		2	
	CURBSTOP		2	
	WATER SERVICE	2		1
	WATERMAIN			1
	SAN MANHOLE			1
Mar Total		2	4	3
Apr	CLEANOUT		1	
	CLEANOUT/CURBSTOP	1		
	CURBSTOP	1	9	13
	MANHOLE		2	
	SEWER MAIN		1	
	WATER MAIN	1		
	WATER SERVICE	1		
Apr Total		4	13	13
May	CLEANOUT	3	4	
	CLEANOUT/CURBSTOP	1		
	CURBSTOP	4	8	
	MANHOLE		1	
	SEWER SERVICE		2	
	WATER SERVICE		1	
	WATERMAIN	4	1	
May Total		12	17	
Jun	CURBSTOP		5	
	MANHOLE	1		
	WATER SERVICE		2	
	WATERMAIN	1	1	
Jun Total		2	8	
Grand Total		21	57	18

FIRE RESCUE SERVICE

"PRIDE & HONOUR"

Leadership - Commitment - Empower - Engage - Succeed - Continual Improvement

JUNE 2020 REPORT
FROM: TYLER MOFFITT – FIRE CHIEF/CEMC

Total Hours: Incidents; Training; Public Education; and Public Service	Training Sessions:	Public Ed & Prevention; Public Events; Public Service:	Fire Safety Standards Enforcement Inspections / Re-inspections for 2020:	Fire Drills	EMS Calls:	Fire Calls:	Fire Loss estimated values in Dollars:
21.9	2	0	43	0	0	4	N/A
Alarm Calls:	MVC Calls:	Water Related Rescue Calls:	(CO) Carbon Monoxide / Gas Leak Calls:	Hazmat Calls:	Mutual Aid Calls:	Other Calls:	Tickets Issued:
5	2	0	1	0	0	1	0

TEAM MEMBERS RESPONDED TO 13 CALLS FOR SERVICE DURING JUNE 2020.

Total Hours:

- **9.6 Hours** was spent on responding to Emergency Incidents.
- **10 Hours** was spent on Training.
- **2.3 Hours** was spent on Public Service.

Time of Day:

During this month, **54%** of our calls for service occurred on the Day Shift between 07:00 & 19:00 and **46%** of our calls for service occurred during the Night Shift between 19:00 & 07:00.

Fire Prevention Inspections / Re-inspections:

Since March 13, 2020, fire prevention inspections have been suspended due to the COVID-19 pandemic.

Fire Response Calls: 4 Fire Calls.

- Power Pole Fire (Alleyway of Gillon's Insurance and Sleepy Owl)
- Boat Engine Fire (Sorting Gap Marina)
- Outdoor Electrical Plug Fire (Private residence)
- Smoke coming from roof area of home (Was a firepit next door at a private residence)

FIRE RESCUE SERVICE

"PRIDE & HONOUR"

Leadership - Commitment - Empower - Engage - Succeed - Continual Improvement

JUNE 2020 REPORT
FROM: TYLER MOFFITT – FIRE CHIEF/CEMC

Power Pole Fire: On scene with new Pumper Fire Truck

Fire Alarms: 5 False Fire Alarm Calls.

- False Fire Alarm due to cooking
- False Fire Alarm due someone cleaning
- False Fire Alarm due to accidental activation
- False Fire Alarm due to the Power Pole Fire and the loss of power
- False Fire Alarm due to an unknown person activating the fire alarm pull station

(CO) Carbon Monoxide / Gas Leak Calls: 1 CO Call.

For this CO call, a resident had phoned our firehall direct on the night shift and immediately got our on-shift duty officer.

Upon answering the phone, the duty officer could hear and recognized that the beeping in the background was in fact a CO alarm sounding. The duty officer immediately instructed the caller to get everyone out of the residence and to stay out.

The duty officer responded along with other fire rescue personnel and upon arrival found high levels of CO present.

Meanwhile, it is important for people to realize … when there is a high carbon monoxide level, your CO alarm will beep four (4) times in a loud, repeating pattern. If this ever happens … people need to get out of the home/building and call 911.

FIRE RESCUE SERVICE

"PRIDE & HONOUR"

Leadership - Commitment - Empower - Engage - Succeed - Continual Improvement

JUNE 2020 REPORT
FROM: TYLER MOFFITT – FIRE CHIEF/CEMC

MVC (Motor Vehicle Crashes): 2 MVC's, which were outside the Town of Fort Frances.

Other Calls: 1 Call, which involved extricating a person from a piece of equipment.

Public Fire Safety Education:
Weekly Fire & Life Safety Tips continue to be published in the Thursday edition of the Fort Frances Bulletin.

As well, we continue to post a weekly Safety Share on our towns official Facebook Page.

This month we thank the fine people of the Fort Frances Times for their many years of continuing support of Public Fire Safety Education in the Town of Fort Frances.

The history of our community's newspaper supporting Public Fire Safety Education is one that goes back well into the 80s when Public Fire Safety Education was really starting to be rolled out in a more consistent format.

Well done Fort Frances Times!

Wednesday, Oct 8, 2014
Duane Hicks
Benjamin Briere, left, gave a high-five to Sparky, the fire safety mascot, during "Fall Fire Safety Day" at Canadian Tire on Saturday. The Fort Frances Fire and Rescue Service was on hand to promote fire safety—especially to get the message across that working smoke alarms save lives and residents should test theirs every month. The Red Cross also had a booth there.

Citywide Export - July 2020 Building Statistics

Permit #	Contractor	Property Address	Legal Description	Work Description	Value
PRM-2020-0044		427 MOWAT AV	PLAN ALBTP LOT T N51.75 FT;LOT Q PCL M-6 RP48R3454 NPT;PART 1	Install two new plumbing fixtures, and move six sprinkler heads	$7,000.00
PRM-2020-0045		824 PHAIR AV	PLAN SM64 LOT 6 PT LOT 5 PT;LANE PCLS 5-2 AND 6-1	Construct a 30' by 40' accessory building	$40,000.00
PRM-2020-0046		333 CHURCH ST	PLAN ALB PT LOT 235 TO 237;204 TO 207 COURT HOUSE	Replace existing courthouse roof. Include spray foam upgrades installation of two balancing dampers, HVAC alterations, abatement and structural repairs.	$149,000.00
PRM-2020-0047		110 FIRST ST E	PLAN M68 BLK 5 LOTS 1 TO 16;26 PT LOT 25 PT LANE RP 48R;2935 PTS 1 TO 4 RP 48R3785;PT 1 PCL BLK 5-26-1	Demolish and remove from site existing 18' by 52' addition on west side of building. Enclose wall openings.	$20,000.00
PRM-2020-0048		613 SECOND ST W	PLAN SM166 LOT 17 PCL 18481	Construct a 12' by 18' accessory building	$8,000.00
PRM-2020-0049		305 KIRSTI PL	PLAN 48M339 LOT 3 PT PCL;PLAN 1	Construct a 24' by 32' accessory building	$30,000.00
PRM-2020-0050		1516 COLONIZATION RD W	PT RIV RANGE LOT 46 PLAN;48R2677 PART 3 PCL 25306 &;PT 4 PCL 25305	Construct a 44' by 32' two storey addition	$70,000.00
PRM-2020-0051	Ryan Mason	1353 IDYLWILD DR	PLAN SM88 W PT LOT 26 PCL 26;-2, E 33' LOT 26 PCL 26-4	Construct a 11' by 16' attached covered patio	$0.00
PRM-2020-0052	JODOIN CLAUDE MURRAY	1121 NELSON ST	RP RR760 PART 1 PCL BLK A-4;SEC SM 144	Construct a 10' by 10' attached uncovered deck	$2,000.00
PRM-2020-0053	Kevin Anderson	1106 SCOTT ST	PLAN SM44 LOT 26 LOT 37 PCL;13814	Construct a 6' by 10' front attached covered deck Construct a 4' by 23' rear attached covered deck	$7,000.00
PRM-2020-0054		909 WILLIAMS AV	RPRR761 N60FT PART 4 PCL;21329	Repairs to existing attached uncovered rear deck	$2,200.00
					335200