



**Township of McNab/Braeside
Recreation Department**

**CONTRACT DOCUMENTS
JAG 2023-11 V2
John A. Gillies Recreation Centre
Sports Lighting
Ball Diamond & Outdoor Rink Pad**

Date of Issue: Wednesday November 29, 2023

Tender Closing Date: Wednesday, December 13, 2023, at 12:00 pm

Tenderer's Name	Total Tender Amount (From Section FT-4)
	\$ _____ (Not including HST)

TENDER

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TENDER**

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PART I TENDER CALL

Sealed Tenders are invited for the execution of the works described herein.

Contract Number	<u>JAG 2023-11 V2</u>
Described as	John A. Gillies Recreation Centre Sports Lighting Ball Diamond & Outdoor Rink Pad
Location	<u>138 Sarah St. E. Braeside ON</u>

Tenders shall be addressed to:

**The Township of McNab/Braeside
2473 Russett Drive
Arnprior, Ontario
K7S 3G8
c/o Lindsey Lee CAO/Clerk**

(Hereinafter the Township)

Tenders shall be received **until 12:00 p.m. local time, Wednesday, December 13, 2023**, at the address given above.

Tenders received by this time, date and at the location specified above, shall be opened and read in public as soon as possible after that time. **Public reading of a Tender does not imply any decision by the Township on whether a Tender is or is not irregular.**

PART II **TENDER CONDITIONS****TC-1** **Completion and Submission of Tenders**

- 1.1 The Tenderer shall complete all documents pertaining to this Contract in ink or in type.
- 1.2 If the Tenderer is a Corporation, an authorized officer of the Corporation shall sign the Form of Tender and shall affix the Corporate Seal.
- 1.3 If the Tenderer is a partnership, a minimum of two partners shall sign the Form of Tender and the signatures shall be witnessed.
- 1.4 If the Tenderer is a sole proprietorship, the sole proprietor shall sign the Form of Tender and the signature shall be witnessed.
- 1.5 The Tenderer shall submit their Tender by the date and time specified in Part I of the Tender.
- 1.6 The Tenderer shall submit to the Township:
- a. the Tender and
 - b. all Addenda issued by the Township, with respect to this Contract.
- 1.7 The Tenderer shall submit the Tender on the forms provided by the Township and the Tenderer shall seal the forms in a clearly labelled envelope.

TC-2 **Tender Deposit**

- 2.1 A tender deposit in the form of a certified cheque, bank draft or money order payable to the Corporation of the Township of McNab/Braeside, in the amount of \$5,000.00 must accompany each tender.

TC-3 **Agreement to Bond**

- 3.1 An Agreement to Bond is not required for this Contract.

TC-4 **Addenda**

- 4.1 The Tenderer shall ensure that its name and address for receipt of Addenda are included on the Township's list of firms to whom Addenda to this Contract, if any, are to be sent. Inclusion on the Township's list does not absolve the Tenderer of its responsibilities set out in Section TC-9.1 of the Tender.

TC-5 **Irregular Tenders**

- 5.1 The Township shall be the sole judge of whether or not a Tender is irregular.

TC-6 **Unbalanced Tenders**

6.1 The Tenderer shall not submit an unbalanced Tender.

6.2 The Township shall have the right to:

- a. deem a Tender to be unbalanced and
- b. reject a Tender, which it deems to be unbalanced.

TC-7 **Collusion**

7.1 The Tenderer shall not engage in collusion of any sort and in particular, shall:

- a. ensure that no person or other legal entity, other than the Tenderer, has any interest in the Tenderer's Tender, and
- b. prepare their Tender without any knowledge of comparison of figures with or arrangement with any other person or firm preparing a Tender for the same work.

TC-8 **Right to Accept or Reject Tenders**

8.1 Notwithstanding any other provision in this Contract, the Township shall have the right to:

- a. accept any Tender;
- b. reject any Tender, and
- c. reject all Tenders.

8.2 The Township reserves the right to reject a Tender of any Bidder who does not furnish satisfactory evidence of sufficient capital, plant and experience to successfully execute and complete the work.

8.3 Without limiting the generality of Section TC-8.1 the Township shall have the right to:

- a. accept an irregular Tender;
- b. accept a Tender which is not the lowest Tender, and
- c. reject a Tender even if it is the only Tender received by the Township.

8.4 Acceptance of the Tender shall occur at the time the Township awards the Tender and not necessarily at the time the award is communicated to the successful Tenderer.

TC-9 **Contract Documents**

9.1 The Contractor shall obtain and review all Contract Documents listed in the Form of Tender and all addenda issued by the Township, pertaining to this Contract.

TC-10 **Errors, Omissions and Discrepancies in the Contract Documents**

- 10.1 If the Tenderer finds any errors or omissions in or discrepancies among the Contract Documents, they shall immediately notify the Township at the address specified in Part I of the Tender.
- 10.2 No oral explanation or interpretation by any person shall modify any of the Contract Documents.

TC-11 **Irrevocability of Offer**

- 11.1 The Tenderer shall not revoke its offer until after the expiration of sixty (60) days after the opening of the Tenders by the Township.

TC-12 **Successful Tenderer - Bonds**

- 12.1 Bonds are not a requirement for this Contract.

TC-13 **Successful Tenderer - Workplace Safety & Insurance Board Certificate of Clearance**

- 13.1 The successful Tenderer shall provide the Township with a valid Workplace Safety and Insurance Board Certificate of Clearance, to the satisfaction of the Township's Solicitor.

TC-14 **Successful Tenderer - Execution of Form of Agreement**

- 14.1 Execution of a Form of Agreement is not a requirement of this contract.
- 14.2 The Township shall issue a letter to the successful Tenderer to indicate acceptance of the contract.

TC-15 **Successful Tenderer - Insurance**

- 15.1 The Successful Tenderer shall provide the Township with an original Certificate of Insurance, in a format satisfactory to the Township's Solicitor.
- 15.2 The Contractor shall carry General Liability and Automobile Liability Insurance in the amount of at least **TWO MILLION DOLLARS (\$2,000,000)**.
- 15.3 The Contractor shall carry General Liability Insurance, which names the following as an additional named insured:
- The Corporation of the Township of McNab/Braeside
2473 Russett Drive, Arnprior, Ontario K7S 3G8
- 15.4 The Contractors Insurance policy shall have a "cross Liability" clause or endorsement and an endorsement to the effect that the policy of policies will not be altered, cancelled or allowed to lapse without thirty days prior to written notice to the township.

TC-16 **Successful Tenderer – Period of Contract**

- 16.1 The Contractor shall schedule their work under this contract to comply with the following requirements:

Commencement: not before December 1, 2023

Project Completion: October 1, 2024

- 16.2 The Contractor shall complete the work by the time specified in the Tender, unless an extension of time is granted.

- 16.3 An extension of time may be granted in writing by the Township in the event of the work being delayed beyond the prescribed time for completion. Such extensions shall be set with fixed terms by the Township. An application for an extension of time shall be made in writing by the Contractor to the Township at least fifteen (15) days prior to the above noted date of completion fixed by the Contract.

- 16.4 If the Township of McNab/Braeside grants the Contractor an extension of time, the Contractor shall complete the work by the revised specified time for completion.

TC-17 **Successful Tenderer - Liquidated Damages**

- 17.1 If the Contractor is obliged to pay liquidated damages, the liquidated damages shall be in the amount of **Five Hundred Dollars (\$500.00)** per day.

TC-18 **Successful Tenderer - Submission of Documentation**

- 18.1 The successful Tenderer shall submit the documentation required by Sections TC-13, TC-14 and TC-15 within seven (7) working days of the day the Township notifies the successful Tenderer that the documentation should be sent to the Township.

- 18.2 If the successful Tenderer fails to comply with Section TC-18.1, the Township may, in its sole discretion, withdraw its acceptance of the Tender and the Tenderer shall have no recourse whatsoever against the Township.

TC-19 **Prices**

- 19.1 Prices quoted shall be the net cost to the Township and shall include all associated costs (i.e. labour, equipment, material, applicable licences and permits) and all other associated costs required to perform the service to the complete satisfaction of the Township.

TC-20 **Payment**

- 20.1 Payment will be made following the completion of the contract. A 10% holdback will be retained in accordance with the Construction Lien Act.

TC-21 **Tax Status**

21.1 The unit price quoted shall include all applicable taxes and fees except the Harmonized Sales Tax of 13%.

21.2 The Harmonized Sales Tax (HST) shall be extra to the unit prices quoted.

TC-22 **Basis of Award**

22.1 It is the Township's intent to award on a total aggregate price as Tendered; however, the Township reserves the right to award on a line item basis, to the lowest responsive bidders, if deemed to be in the best interest of the Township.

22.2 The Township reserves the right to disqualify any Tender that is incomplete or is otherwise not submitted in strict accordance with the terms and conditions set forth in this Contract. The Township reserves the right to accept or reject any or all Tenders, should it be deemed to be in the best interest of the Township. Should only one (1) Tender be received, the Township reserves the right to reject it.

22.3 Due to financial constraints, The Township may be required to reduce the work by eliminating items or by reducing individual scope of items of work. The tenderer agrees that the Township may at any time reduce the improvements and payment will be made for the actual amount of work done and material furnished.

TC-23 **Inquiries**

23.1 Inquires concerning this project are to be directed to:

Andrea Lamontagne
Recreation Director
(613) 623-5756 ext. 226
andrea@mcnabbraeside.com

Questions of clarification will be answered individually, but response(s) to any question that modifies the scope of the Request for tender will be circulated in writing as a Request for Tender Addendum to all registered document takers who have received the Request for Tender document from the Township.

PART III **FORM OF TENDER****FT** **Tenderer Information**

Company Name: _____

Address: _____

Email: _____

City/Province/Postal Code: _____

Phone Number: _____ Fax Number: _____

Contractor's Signature

Business Partner's Signature
(only if required by TC-1)

Witness's Signature
(only if required by TC-1)

Corporate Seal (if applicable)

FT-1 **Contract Documents**

1.1 The Contract Documents for Contract **JAG 2023-11 V2** are:

- a. Tender
 - i. Part I..... Tender Call
 - ii. Part II..... Tender Conditions
 - iii. Part III..... Form of Tender
 - iv. Part IV..... Specifications
- b. Contract Drawings (C100 & C101)
- c. All Addenda Issued Pertaining to this Contract

FT-2 **Tenderer's Declarations**

2.1 The Tenderer declares that it has obtained and read the Contract Documents.

2.2 The Tenderer declares that it understands and agrees to be bound by the Contract Documents.

2.3 Without limiting the generality of Section FT-2.2, the Tenderer declares that it has, at the time of Tendering, fulfilled all of those obligations under the Contract, which are required to be fulfilled by the time of Tendering.

- 2.4 The Tenderer declares that all information, which it has provided or will provide to the Township is true.

FT-3 **Tenderer's Offer**

- 3.1 The Tenderer offers to do the work in accordance with the Contract Documents.

- 3.2 The Tenderer offers to do the work and to accept payment at the unit prices specified in the Schedule of Prices in Section FT-4 of the Tender, in accordance with the Contract Documents.

- 3.3 The Tenderer's total Tender Price, based on the estimated quantities in the Schedule of Prices is:

\$ _____
(price in words)

(\$ _____)

(price in numbers)

FT-4 **Schedule of Prices**

Item No.	Description	Estimated Quantity	Unit Price	Amount
1	Ball Diamond		Lump Sum	\$
2	Outdoor Rink		Lump Sum	\$
3	ESA Work Permit and Inspection Fees		Lump Sum	
			SUB TOTAL	\$
			TOTAL TENDER PRICE	\$

FT-5 **Sub-Contractors**

The following is a list of Sub-Contractors which I/We propose to employ for this work:

NAME OF SUB-CONTRACTOR	SCOPE OF WORK

FT-6 **Submitted Documentation**

- 6.1 ☐ Provide product information for all proposed light fixtures.
All fixtures are to be LED
- 6.2 ☐ Provide number of proposed light fixtures and layout.
- 6.3 ☐ Provide light distribution analysis for proposed lighting.
- 6.4 ☐ Proposed work schedule.

Bidder's Comments:

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PART IV SPECIFICATIONS**Item 1 – Ball Diamond Lighting**

Lighting Specifications – should meet an average of 200 Lux.

Works to include all labour, material and equipment required to remove existing lamp heads and install new LED lighting.

There are 7 existing wooden poles that can be re-used, any poles deemed unusable are to be replaced.

The breaker box is located outdoors on a pole next to the diamond. The box was replaced in 2022- (not the electrical).

The ball diamond is used May through September, ideally work would not conflict with this time frame.

Item 2 – Outdoor Rink Lighting

Lighting Specifications – should meet an average of 250 Lux.

Works to include all labour, material and equipment for removal of existing fixtures and poles and installation of LED lighting, new steel poles, trenching and infrastructure.

Currently there are 9 lamp heads and 12 existing wooden poles that must be removed, disposed of and replaced with new steel poles that meet minimum requirements.

The breaker box is located indoors with an outdoor access panel to operate the lights.

The outdoor rink is used as an ice surface December through March, ideally work would not conflict with this time frame.

Applicable to Items 1 & 2

Disposal / recycling of old materials to be included in tender price.

Areas where topsoil is to be placed shall be fine graded to a uniform surface. It shall be free of all vegetation, debris, and stones.

Site works are to proceed in a manner that maintains positive drainage.

All areas disturbed throughout the course of construction are to be repaired to their original condition. Material stockpile areas are to be cleaned up on completion of the works.



Ariel view – John A. Gillies Recreation Centre, 138 Sarah St. E. Braeside ON

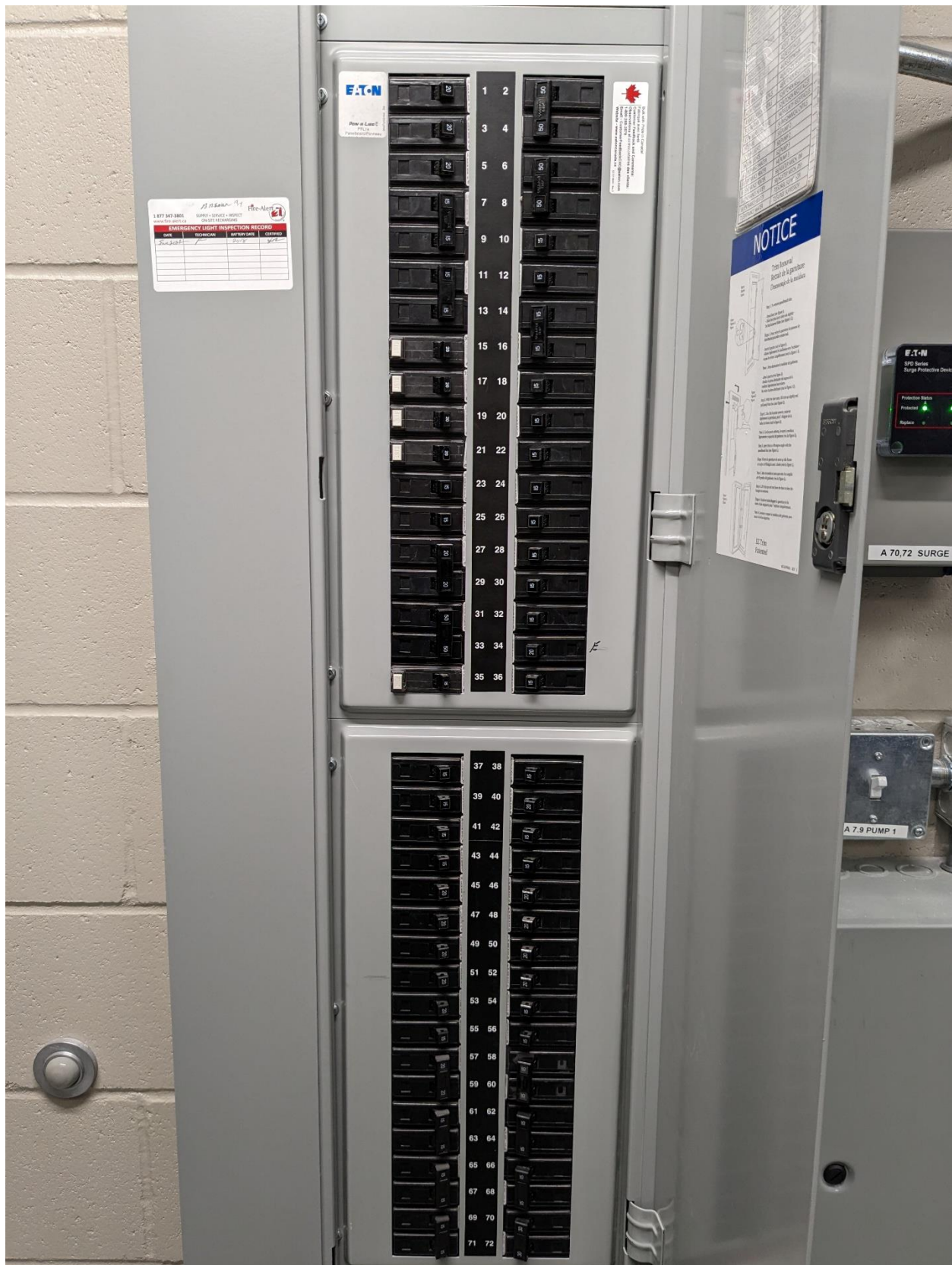




Ball Diamond Breaker Box



Ball Diamond Breaker Box



Rink Breaker Box



Rink Breaker Box



Rink Breaker Box

PANEL LEGEND**DRAPER ELECTRIC LTD.**

613-325-5827

1	HRV RECEPTACLE	2	CONDENSING UNIT 1
3	AHU-1	4	CONDENSING UNIT 1
5	AHU-1	6	CONDENSING UNIT 2
7	PUMP-1	8	CONDENSING UNIT 2
9	PUMP-1	10	BOILER
11	WELL PUMP	12	OZONATOR
13	WELL PUMP	14	SEPTIC PUMP
15	HAND DRYER	16	SEPTIC PUMP
17	HAND DRYER	18	CEILING FANS
19	HAND DRYER	20	GFCI RECEPTACLE
21	HAND DRYER	22	GFCI RECEPTACLE
23	ASSEMBLY FLOOR BOX	24	REFRIGERATOR
25	FREEZER	26	REFRIGERATOR
27	RINK LIGHTS	28	RECEPTACLES
29	RINK LIGHTS	30	IT SHELF
31	ELECTRIC RANGE	32	DOOR OPERATORS
33	ELECTRIC RANGE	34	LIGHTING
35	DRINKING FOUNTAIN	36	RECEPTACLES
37	RECEPTACLES	38	RECEPTACLES
39	RECEPTACLES	40	EXT. RECEPTACLES
41	GFI RECEPTACLES	42	RECEPTACLES
43	RECEPTACLES	44	RECEPTACLES
45	RANDGE HOOD	46	KITCHEN RECEPTACLES
47	MECHANICAL CNTRLs	48	KITCHEN RECEPTACLES
49	MECHANICAL CNTRLs	50	KITCHEN RECEPTACLES
51	LIGHTING	52	KITCHEN RECEPTACLES
53	ASSEMBLY LIGHTING	54	SECURITY RECEPTACLES
55	SPARE	56	MECHANICAL CNTRLs
57	RINK LIGHTS	58	PUMP 2
59	RINK LIGHTS	60	PUMP 2
61	ENTRANCE HEATER	62	PUMP 3
63	ENTRANCE HEATER	64	PUMP 3
65	ENTRANCE HEATER	66	HEATER MECH. RM
67	ENTRANCE HEATER	68	HEATER MECH. RM
69	ENTRANCE HEATER	70	SURGE SUPRESSOR
71	ENTRANCE HEATER	72	SURGE SUPRESSOR

Rink Breaker Box

LEGEND

- 120VAC DUPLEX RECEPTACLE
- 120VAC GFI RECEPTACLE
- 120VAC RECEPTACLE AT COUNTER HEIGHT
- 120VAC RECEPTACLE AT HIGH LEVEL FOR SPEAKERS
- 120VAC WEATHERPROOF RECEPTACLE, C/W COVER
- 240VAC RECEPTACLE
- 240VAC WEATHERPROOF RECEPTACLE, C/W COVER
- CIRCUIT: PANEL 'A', CIRCUIT #10
- DATA CONNECTION
- EMERGENCY CALL SYSTEM
- DOOR OPERATOR CONTROL
- HAND DRYER
- TELECOM CONNECTION
- CEILING FAN CONTROLLER - VARIABLE SPEED & REVERSIBLE
- RANGE HOOD
- DRINKING FOUNTAIN
- WELL
- AUDIO CONTROL JACK
- WIRELESS ACCESS POINT

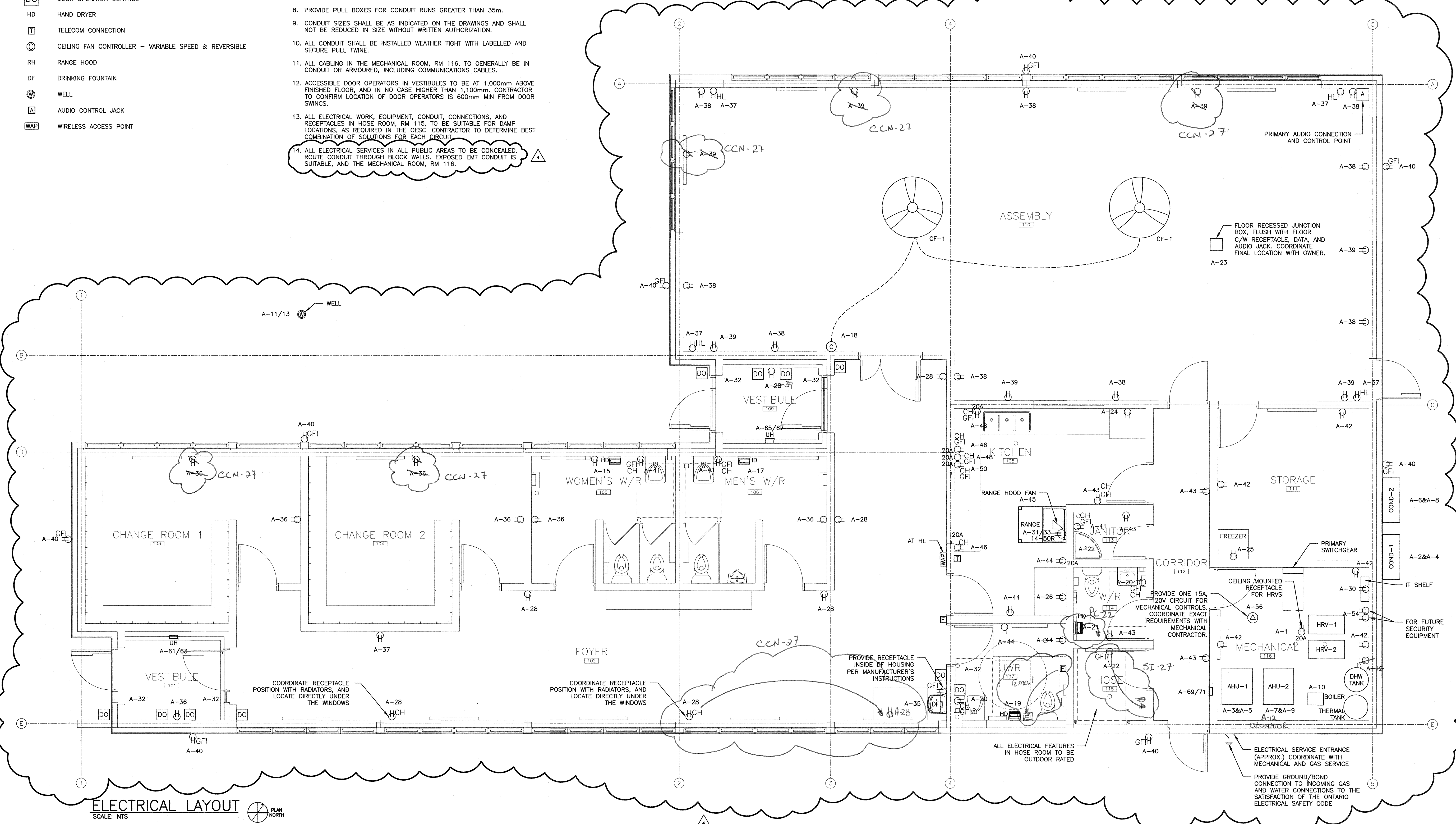
NOTES

- REFER TO COMPLETE DRAWING SET FOR ADDITIONAL INFORMATION.
- LOCATION OF ELECTRICAL EQUIPMENT APPROXIMATE. CONTRACTOR REQUIRED TO CONFIRM SITE CONDITIONS, AND COORDINATE WITH ALL OTHER DIVISIONS OF THE CONTRACT FOR PLACEMENT OF EQUIPMENT, INCLUDING ROOM FURNITURE LAYOUTS AND FINISHES.
- UNLESS OTHERWISE INDICATED ALL RECEPTACLES TO BE RATED 15A.
- ALL GFI'S AND 240VAC RECEPTACLES TO BE ON DEDICATED CIRCUITS.
- WASHROOM GFI'S TO BE AT 1,100mm ABOVE FINISHED FLOOR. LOW LEVEL RECEPTACLES TO BE AT 400mm ABOVE FINISHED FLOOR.
- DATA, TELEPHONE, RADIO SYSTEMS, AND SECURITY SERVICES OR CABLING NOT INCLUDED IN ELECTRICAL CONTRACTOR'S SCOPE OF WORK. PROVIDE CONDUIT STUB TO ABOVE T-BAR CEILING WITH PULL TWINE. LOCATIONS SHOWN ARE APPROXIMATE. FINAL INSTALLATION TO BE COORDINATED WITH ALL DIVISIONS OF THE CONTRACT AND OWNER'S AUTHORIZED REPRESENTATIVE.
- PHONE AND DATA TO BE WIRED WITH CAT6 CABLE THROUGHOUT. WIRE TELEPHONE JACKS AS RJ14, READY TO UPGRADE TO RJ45, FOR FUTURE VOIP UPGRADE.
- PROVIDE PULL BOXES FOR CONDUIT RUNS GREATER THAN 35m.
- CONDUIT SIZES SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL NOT BE REDUCED IN SIZE WITHOUT WRITTEN AUTHORIZATION.
- ALL CONDUIT SHALL BE INSTALLED WEATHER TIGHT WITH LABELLED AND SECURE PULL TWINE.
- ALL CABLING IN THE MECHANICAL ROOM, RM 116, TO GENERALLY BE IN CONDUIT OR ARMoured, INCLUDING COMMUNICATIONS CABLES.
- ACCESSIBLE DOOR OPERATORS IN VESTIBULES TO BE AT 1,000mm ABOVE FINISHED FLOOR, AND IN NO CASE HIGHER THAN 1,100mm. CONTRACTOR TO CONFIRM LOCATION OF DOOR OPERATORS IS 600mm MIN FROM DOOR SWINGS.
- ALL ELECTRICAL WORK, EQUIPMENT, CONDUIT, CONNECTIONS, AND RECEPTACLES IN HOSE ROOM, RM 115, TO BE SUITABLE FOR DAMP LOCATIONS, AS REQUIRED IN THE DESC. CONTRACTOR TO DETERMINE BEST COMBINATION OF SOLUTIONS FOR EACH CIRCUIT.
- ALL ELECTRICAL SERVICES IN ALL PUBLIC AREAS TO BE CONCEALED. ROUTE CONDUIT THROUGH BLOCK WALLS. EXPOSED EMT CONDUIT IS SUITABLE, AND THE MECHANICAL ROOM, RM 116.

- ELECTRICAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR AND WELL TECHNICIAN FOR POWER SUPPLY TO WELL. CONFIRM CIRCUIT OVERCURRENT RATING AND CABLE SIZE.
- CONTRACTOR TO SUPPLY AND INSTALL AUDIBLE AND VISUAL EMERGENCY CALL SYSTEM IN UNIVERSAL BATHROOM, RM 107, COMPLETE WITH SIGNAGE AS REQUIRED BY OBC 3.8.3.12.
- EMERGENCY CALL SYSTEM TO BE A PUSH-TO-LOCK STYLE, COMPLETE WITH OCCUPANCY SENSOR AND "OCCUPIED" SIGNAL, AND AN "ASSISTANCE REQUIRED" ALARM AND MUSHROOM PUSH-BUTTON.
- COORDINATE WITH MECHANICAL DIVISION FOR ALL MECHANICAL EQUIPMENT AND CONTROLS, AT BEGINNING OF WORK, TO ENSURE COMPLETE INSTALLATION OF ALL EQUIPMENT AND APPURTENANCES THEREBY.
- EXTERIOR RECEPTACLES TO BE RECESSED, COLOUR MATCHED COVER PLATE WITH WALL COLOUR, AND LOCKABLE.
- HAND DRYERS TO BE ON A GFI PROTECTED CIRCUIT BREAKER, SEE DETAIL 1/E103.
- REFER TO PROPOSED CHANGE 14, DATED NOV24-17, AND ASSOCIATED SKETCHES FOR ADDITIONAL SECURITY ROUGH-IN REQUIREMENTS.

STYLE	MANUFACTURER	MODEL	DESCRIPTION
UH	DIMPLEX	RF1820031W	2KW FAN-FORCED HEATER, WHITE, C/W RFFPA FRONT PANEL KIT, RFLVC31 RELAY AND TRANSFORMER KIT
DO	STANLEY	D-4990	LOW ENERGY DOOR OPERATOR, C/W CL4163 PUSH PLATES, AND 628 CLEAR ANODIZED FINISH
E			EMERGENCY CALL SYSTEM, REFER TO ARCHITECTURAL
FR	FLOOR BOX SYSTEMS	C2XSFN	FLOOR RECEPTACLE C/W 120VAC RECEPTACLE, DATA, AND AUDIO JACKS, FLUSH WITH FLOOR FINISH
EM	VERIS INDUSTRIES	H8163-0400-3-2	REVENUE GRADE ENERGY METER, 240VAC, 3-WIRE, SINLGE PHASE, 400A SERVICE
CF-1	BIG ASS FANS	HAUKU	SFT CEILING FAN, COMPLETE WITH VARIABLE SPEED AND REVERSIBLE MOTORS, COLOUR FROM A STANDARD RANGE

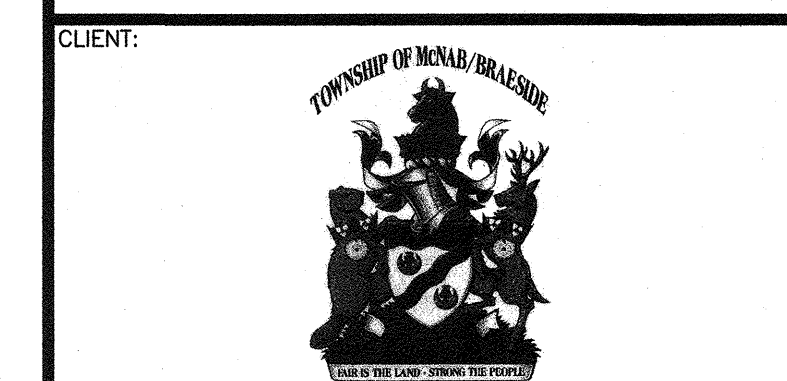
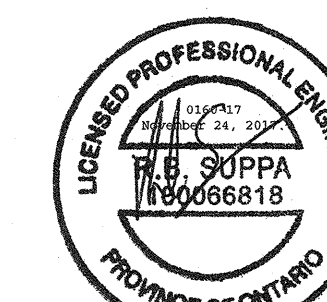
NOTE: NOT ALL EQUIPMENT REQUIRING ELECTRICAL SERVICE INDICATED. CONTRACTOR REQUIRED TO PROVIDE ELECTRICAL SERVICE TO ALL EQUIPMENT REQUIRING POWER



GENERAL NOTES

- THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS IN CONFORMANCE WITH THE ONTARIO BUILDING CODE, THE OCCUPATIONAL HEALTH AND SAFETY ACT AND ALL OTHER GOVERNING REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. THE CONTRACTOR SHALL NOTIFY ALL REQUIRED PARTIES OF ANY INCONSISTENCIES PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL EXAMINE EXISTING SITE CONDITIONS AND REPORT ANY ISSUES PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR THE DESIGN, ERECTION, OPERATION, MAINTENANCE AND REMOVAL OF TEMPORARY BRACING, SHORING, HOARDINGS, AND ANY FACILITIES OR METHODS REQUIRED TO KEEP THE CONSTRUCTION SAFE, PLUMB, LEVEL AND IN TRUE ALIGNMENT AT ALL PHASES OF THE WORK UNTIL COMPLETION.

No.	DATE	BY	REMARKS
1	NOV24-17	RS	ISSUED FOR PROPOSED CHANGE 13
2	SEP22-17	SRT	ISSUED FOR PERMIT & CONSTRUCTION
3	AUG04-17	SRT	ISSUED FOR TENDER
4	JUL10-17	SRT	ISSUED FOR CLIENT REVIEW - 90%
5	JUN06-17	SRT	ISSUED FOR CLIENT REVIEW - 50%



CLIENT: TOWNSHIP OF MARKHAM-BRAESIDE

PROJECT: NEW BRAESIDE RECREATION CENTRE

TITLE: ELECTRICAL LAYOUT



13 Commerce Court Bancroft, Ontario N1A 3Z2 greenview-environmental.ca	DESIGNED BY: SRT DRAWN BY: SRT APPROVED BY: SRT DATE: APR-17	PLOT DATE: NOV24-17
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E101

- LEGEND
- \$ LIGHT SWITCH
 - \$3 3-WAY SWITCH
 - \$4 4-WAY SWITCH
 - \$OS LIGHT SWITCH WITH ACOUSTIC OCCUPANCY SENSOR - OS-2
 - \$D DIMMABLE LIGHT SWITCH
 - A-10 CIRCUIT: PANEL 'A', CIRCUIT #10
 - OS OCCUPANCY SENSOR - OS-1
 - PC PHOTO CELL FOR EXTERIOR LIGHTS
 - C CEILING FAN CONTROLLER
 - EXIT EMERGENCY EXIT SIGNAGE
 - E LIGHT FIXTURE TAG
 - SD SMOKE ALARM
 - SINGLE EMERGENCY LIGHT BATTERY UNIT
 - SINGLE EMERGENCY LIGHT REMOTE HEAD
 - DOUBLE EMERGENCY LIGHT BATTERY UNIT
 - DOUBLE EMERGENCY LIGHT REMOTE HEAD

- NOTES
- REFER TO COMPLETE DRAWING SET FOR ADDITIONAL INFORMATION.
 - ALL EXTERIOR LIGHTING TO BE OPERATED BY PHOTO CELL CONTROLLED CONTACTOR AT MAIN ELECTRICAL PANEL.
 - LOCATION OF ELECTRICAL EQUIPMENT APPROXIMATE. CONTRACTOR REQUIRED TO CONFIRM SITE CONDITIONS, AND COORDINATE WITH ALL OTHER DIVISIONS OF THE CONTRACT FOR PLACEMENT OF EQUIPMENT.
 - ALL EXIT SIGNS ARE TO BE ON THE SAME CIRCUIT WITH 30 MINUTE MINIMUM BATTERY BACK-UP.
 - EMERGENCY LIGHTING UNITS TO BE ON THE SAME CIRCUIT AS THE PRIMARY LIGHTING CIRCUIT WHICH SERVES THE SAME AREA THAT THE EMERGENCY LIGHTING UNIT PROTECTS.
 - LIGHT SWITCHES TO BE AT 1,100mm ABOVE FINISHED FLOOR, AND IN NO CASE GREATER THAN 1,200mm ABOVE FINISHED FLOOR.
 - SMOKE ALARMS TO BE INTERCONNECTED, SUCH THAT ALL SMOKE ALARMS WILL ACTIVATE AT THE SAME TIME.
 - LIGHTING IN BARRIER-FREE WASHROOMS TO BE CONTROLLED BY OCCUPANCY SENSOR. PROVIDE MANUAL OVERRIDE SWITCH. REFER TO LIGHTING SCHEDULE.
 - VESTIBULE LIGHTING FOR RMS 101 AND 109 TO OPERATE VIA THE EXTERIOR LIGHTING PHOTOCELL.
 - UNDERCABINET LIGHTS IN KITCHEN TO BE HARD-WIRED WITH MANUAL SWITCH DIRECTLY ON THE FIXTURE.

SCHEDULE OF LIGHT FIXTURES			
STYLE	MANUFACTURER	MODEL	DESCRIPTION
A	COOPER	METALUX 22GR LD5 32 F1UNVL835 CD-1-U	2'X2' LED T-BAR FIXTURE
B	COOPER	METALUX SNLED-LD1-30-UNV-LN-L835-U-AYC	4' LED STRIP LIGHT
C	COOPER	METALUX 2SNLED-LD1-30-UNV-LN-L835-U-AYC	2' LED STRIP LIGHT
D	COOPER	METALUX 4VT2-LD4-4DR-UNV-L835-WL-U	4' VAPOUR TIGHT LED LIGHT
E	LITHONIA	OLBF-8-30K-DOB	EXTERIOR LIGHT FIXTURE
E1	LITHONIA	OLWX1 LED	EXTERIOR LIGHT FIXTURE
F	EMERGI-LITE	ES1WU	EXIT SIGN
G	EMERGI-LITE	ES2WU DOUBLE SIDES	EXIT SIGN WITH ARROW
OS-1	HUBBEL	OMNI	CEILING MOUNT OCCUPANCY SENSOR, DUAL TECHNOLOGY, LINE VOLTAGE RELAY
OS-2	HUBBEL	LIGHTHAWK2	LIGHT SWITCH OCCUPANCY SENSOR, DUAL TECHNOLOGY, LINE VOLTAGE RELAY
EM-1	EMERGI-LITE	12ESL144/2LI	EMERGENCY LIGHT WITH BATTERY, DUAL HEAD
EM-2	EMERGI-LITE	EF9MLI	SINGLE REMOTE HEAD FOR EMERGENCY LIGHT
EM-3	EMERGI-LITE	EF9DMLI	DOUBLE REMOTE HEAD FOR EMERGENCY LIGHT

GENERAL NOTES

- THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS IN CONFORMANCE WITH THE ONTARIO BUILDING CODE, THE OCCUPATIONAL HEALTH AND SAFETY ACT AND ALL OTHER GOVERNING REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. THE CONTRACTOR SHALL NOTIFY ALL REQUIRED PARTIES OF ANY INCONSISTENCIES PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL EXAMINE EXISTING SITE CONDITIONS AND REPORT ANY ISSUES PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR THE DESIGN, ERECTION, OPERATION, MAINTENANCE AND REMOVAL OF TEMPORARY BRACING, SHORING, HOARDING, AND ANY FACILITIES OR METHODS REQUIRED TO KEEP THE CONSTRUCTION SAFE, PLUMB, LEVEL AND IN TRUE ALIGNMENT AT ALL PHASES OF THE WORK UNTIL COMPLETION.

5	NOV27-17	RS	ISSUED FOR PROPOSED CHANGE 13
4	NOV24-17	RS	ISSUED FOR PROPOSED CHANGE 13
3	SEP22-17	SRT	ISSUED FOR PERMIT & CONSTRUCTION
2	AUG04-17	SRT	ISSUED FOR TENDER
1	JUL10-17	SRT	ISSUED FOR CLIENT REVIEW - 90%
0	JUN06-17	SRT	ISSUED FOR CLIENT REVIEW - 50%
No.	DATE	BY	REMARKS



CLIENT:



PROJECT:

NEW BRAESIDE
RECREATION CENTRE

TITLE:

LIGHTING
LAYOUT

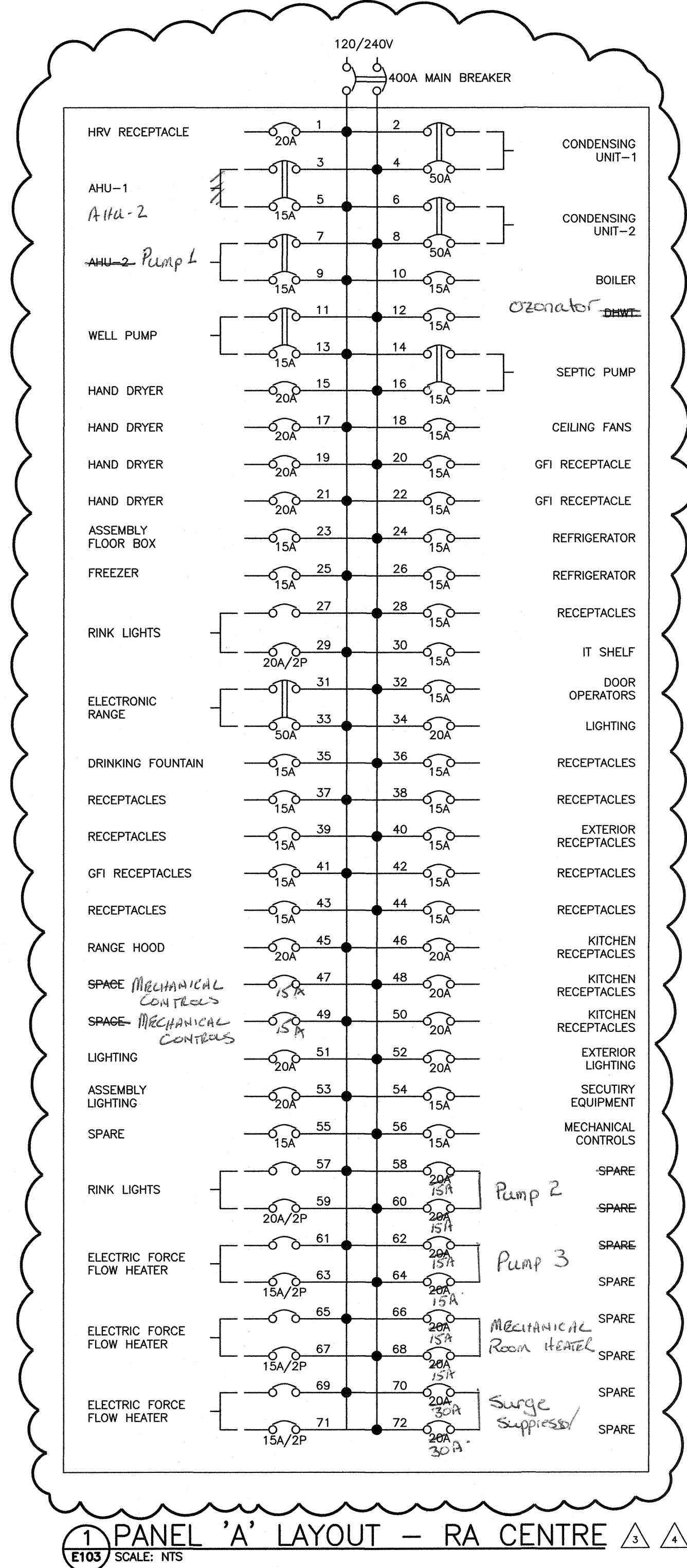
Greenview
ENVIRONMENTAL MANAGEMENT

13 Commerce Court
Bancroft, Ontario
N1S 3Z2
greenview-environmental.ca

DESIGNED BY:	DRAWN BY:	APPROVED BY:	DATE:
SRT	SRT	SRT	APR-17

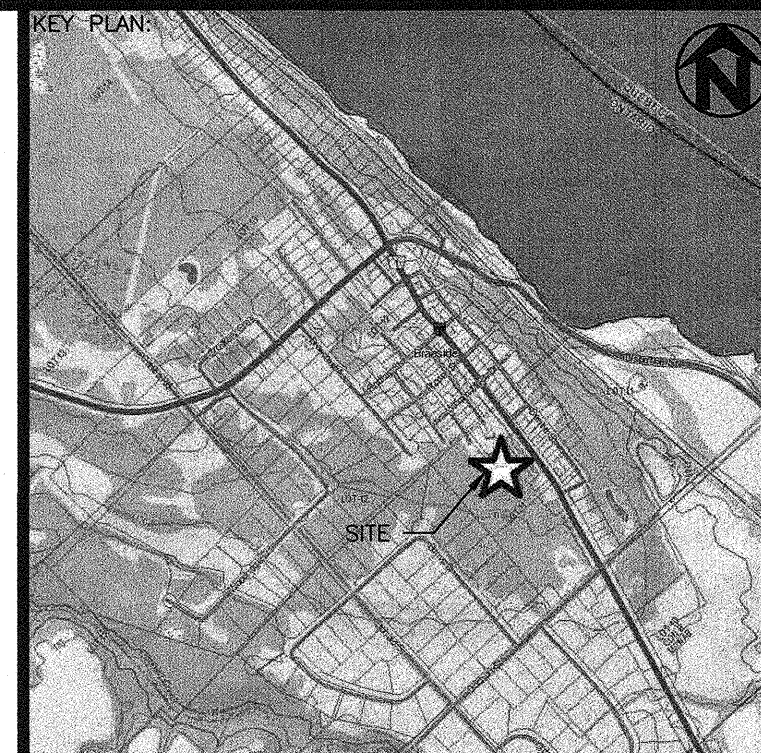
PROJECT:	156.16.009	PLOT DATE:	NOV24-17
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E102



NOTES

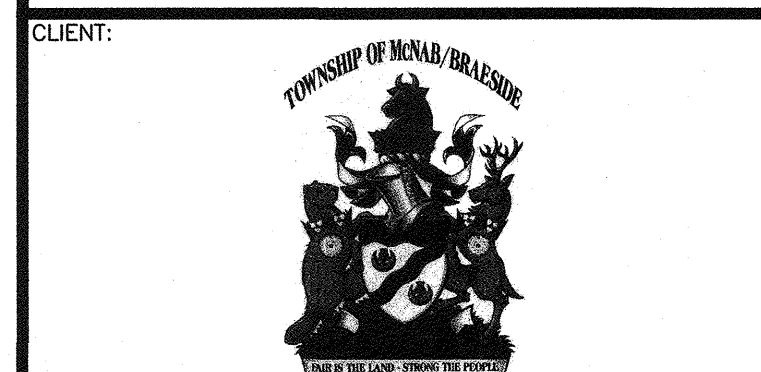
1. REFER TO COMPLETE DRAWING SET FOR ADDITIONAL INFORMATION.
2. LOCATION OF ELECTRICAL EQUIPMENT APPROXIMATE. CONTRACTOR REQUIRED TO CONFIRM SITE CONDITIONS, AND COORDINATE WITH ALL OTHER DIVISIONS OF THE CONTRACT FOR PLACEMENT OF EQUIPMENT, INCLUDING ROOM FURNITURE LAYOUTS AND FINISHES.
3. PANEL LAYOUTS ARE DIAGRAMMATIC. CONTRACTOR RESPONSIBLE TO ARRANGE AND BALANCE PANELS AND BREAKERS AT THEIR DISCRETION, IN GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE OESC.



GENERAL NOTES

1. THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS IN CONFORMANCE WITH THE ONTARIO BUILDING CODE, THE OCCUPATIONAL HEALTH AND SAFETY ACT AND ALL OTHER GOVERNING REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
2. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. THE CONTRACTOR SHALL NOTIFY ALL REQUIRED PARTIES OF ANY INCONSISTENCIES PRIOR TO COMMENCING THE WORK.
3. THE CONTRACTOR SHALL EXAMINE EXISTING SITE CONDITIONS AND REPORT ANY ISSUES PRIOR TO COMMENCING THE WORK.
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5. THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR THE DESIGN, ERECTION, OPERATION, MAINTENANCE AND REMOVAL OF TEMPORARY BRACING, SHORING, HOARDINGS, AND ANY FACILITIES OR METHODS REQUIRED TO KEEP THE CONSTRUCTION SAFE, PLUMB, LEVEL AND IN TRUE ALIGNMENT AT ALL PHASES OF THE WORK UNTIL COMPLETION.

No.	DATE	BY	REMARKS
6	NOV 27-17	RS	ISSUED FOR PROPOSED CHANGE 13
5	NOV 24-17	RS	ISSUED FOR PROPOSED CHANGE 13
4	SEP 22-17	SRT	ISSUED FOR PERMIT & CONSTRUCTION
3	AUG 25-17	SRT	REVISION
2	AUG 04-17	SRT	ISSUED FOR TENDER
1	JUL 10-17	SRT	ISSUED FOR CLIENT REVIEW - 90%
0	JUN 06-17	SRT	ISSUED FOR CLIENT REVIEW - 50%



CLIENT:
TOWNSHIP OF McNAB-BRAESIDE

PROJECT:
NEW BRAESIDE RECREATION CENTRE

TITLE:
ELECTRICAL DETAILS



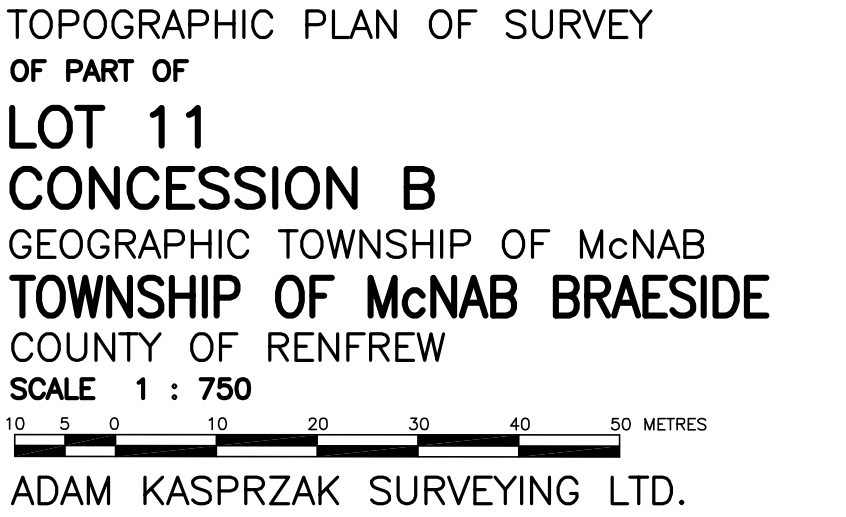
13 Commerce Court
Bancroft, Ontario
613.332.0657
greenview-environmental.ca

DESIGNED BY: SRT
DRAWN BY: SRT
APPROVED BY: SRT
DATE: APR-17

PROJECT: 156.16.009
PLOT DATE: NOV24-17

E103

4 OF 4



BEARINGS ARE UTM GRID, DERIVED FROM SIMULTANEOUS GPS OBSERVATIONS ON MONUMENTS A AND B, SHOWN HEREON, HAVING A GRID BEARING OF N39°43'40"W, NAD83 AND ARE REFERRED TO THE CENTRAL MERIDIAN OF UTM ZONE 18, 75° WEST.

ASTRONOMIC BEARINGS CAN BE CALCULATED BY ROTATING THE GRID BEARINGS COUNTER CLOCKWISE 0°59'48" AS REFERRED TO REGISTERED PLAN 454.

DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES
AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.999732.

ELEVATIONS SHOWN ON THIS PLAN ARE OF GEODETIC ORIGIN AND ARE REFERRED TO VERTICAL CONTROL POINT 0011915U74G GEODETIC SURVEY OF CANADA, HAVING A PUBLISHED ELEVATION OF 91.302 METRES

SSIB PLANTED DUE TO INSUFFICIENT OVERBURDEN.

COORDINATES ARE DERIVED FROM GPS OBSERVATIONS USING THE PRECISE POINT POSITIONING (PPP) SERVICE AND ARE REFERRED TO UTM ZONE 18 (75° WEST) NAD83 (CSRS) (1997)

COORDINATE VALUES ARE TO RURAL ACCURACY PER
SEC. 14 (2) OF O. REG. 216/10 AND CANNOT, IN
THEMSELVES, BE USED TO RE-ESTABLISH CORNERS
OR BOUNDARIES SHOWN ON THIS PLAN.

THE TOPOGRAPHIC SURVEY FROM PROJECT 12-2075-E BY ADAM KASPRZAK SURVEYING LTD. USED AS A BASE TO ILLUSTRATE RELATIVE LOCATION OF THE INFORMATION COLLECTED FOR THIS PROJECT.

BOUNDARY INFORMATION PERTAINS TO PROJECT 12-2075-E.
TITLE INFORMATION HAS BEEN UPDATED FOR THIS DRAWING.

I CERTIFY THAT:

1. THE SURVEY WAS COMPLETED ON DECEMBER 11th, 2018.

DATE: DECEMBER 18, 2018

ADAM KASPRZAK
ONTARIO LAND SURVEYOR

LEGEND	(If Applicable)
IB	- IRON BAR
SIB	- STANDARD IRON BAR
SSIB	- SHORT STANDARD IRON BAR
M	- MONUMENT FOUND
C	- MONUMENT SET
CP	- CONCRETE PIN
OU	- ORIGIN UNKNOWN
(918)	- ANDREW GIBSON, O.L.S.
UDR	- D. W. PATTERSON, O.L.S.
1290	- D. W. PATTERSON & KASPRZAK LTD.
SRK	- SURT & ROWE LTD.
P(1)	- REGISTERED PLAN 454
P2	- PLAN 49R-4924
P4	- PLAN 49R-12656
P5	- PLAN 49R-15334
P6	- PLAN 49R-5628
BOLLARD	
HYDRO POLE	
ANCHOR	
WELL	
CATCH BASIN	

AK ADAM KASPRZAK SURVEYING LTD.
ONTARIO LAND SURVEYORS

113 ARGYLE ST. S. P.O. BOX 633
RENFREW ONTARIO K7V 4E7
PHONE (613) 432-3048

SCALE: 1 : 750	REF: 18-2169
FILE No :	