

THE CORPORATION OF THE TOWNSHIP OF HORTON COUNCIL MEETING – JULY 18TH, 2023 – 4:00 P.M. HORTON MUNICIPAL CHAMBERS 2253 JOHNSTON RD.

1. CALL TO ORDER

2. LAND ACKNOWLEDGEMENT

"As we gather today, I would like to acknowledge, on behalf of Council and our community that we are meeting on the traditional territory of the Algonquin People. We would like to thank the Algonquin People and express our respect and support for their rich history, and we are extremely grateful for their many and continued displays of friendship. We also thank all the generations of people who have taken care of this land for thousands of years."

3. DECLARATION OF PECUNIARY INTEREST

4. CONFIRMATION OF COUNCIL AGENDA

5. DELEGATIONS &/OR PUBLIC MEETINGS

	5.1	4:00 p.m. Public Meeting – Green and Inclusive Community Buildings Grant – 80% Design – Community Centre	PG.3
6.	MINUT	ES FROM PREVIOUS MEETINGS	
	6.1	July 4 th , 2023 – Regular Council	PG.29
7.	BUSIN	ESS ARISING FROM MINUTES	
8.	СОММ	ITTEE REPORTS:	
	8.1	GENERAL GOVERNMENT • CHAIR WEBSTER	
		8.1.1 Treasurer's Report	PG.31
	8.2	PLANNING COMMITTEE CHAIR CAMPBELL	
		8.2.1 June Building Report	PG.33
		8.2.2 Planning Files Update	PG.34
		8.2.3 Staff Report – Backyard Chickens	PG.36
		8.2.4 Staff Report – ZBLA – Tomlinson – Next Steps	PG.48
	8.3	PROTECTIVE SERVICES COMMITTEE CHAIR PROCTOR	
		8.3.1 Chair's Report – July 6 th	PG.50
	8.3	RECREATION COMMITTEE CHAIR HUMPHRIES	
		8.3.1 Chair's Report – July 13 th	PG.51

9. CORRESPONDENCE SUMMARY

9.1 INFORMATION CORRESPONDENCE – NONE

9.2 ACTION CORRESPONDENCE – NONE

10. BY-LAWS

10.1 2023-35 Form of Agreement – Greenwood Paving – Mullins Rd. **PG.53**

11. NOTICE TO FILE MOTION FOR NEXT COUNCIL MEETING

12. COUNCIL/STAFF MEMBERS CONCERNS

13. **RESOLUTIONS**

14. IN CAMERA (Closed) SESSION (as required)

14.1 Pursuant to Section 239(2) (c) of the Municipal Act,

(c) A proposed or pending acquisition or disposition of land by the municipality or local board – Land Acquisition request from Recreation Committee

15. CONFIRMING BY-LAW 2023-36

PG.56

16. ADJOURNMENT



THE CORPORATION OF THE TOWNSHIP OF HORTON

PUBLIC MEETING

Community Center Retrofit and System Upgrades, 80% Design

Information Session

July 18th, 2023 Horton Municipal Chambers 2253 Johnston Rd. 4:00 p.m.

- 1. Call to Order
- 2. Declaration on Pecuniary Interest
- 3. Community Center Retrofit and System Upgrades, 80% Design
- 4. Public Members Comments/Questions
- 5. Council Members Comments/Questions
- 6. Adjournment



Township of Horton COUNCIL / COMMITTEE REPORT

Title:	Date:	July 18 th 2023
Community Center Retrofit and	Council/Committee:	Council
System Upgrades, 80% Design Public Meeting	Author:	Adam Knapp, Public Works Manager
	Department:	Recreation

RECOMMENDATIONS:

THAT Council accept the 80% design for energy efficient retrofits and upgrades at the community center.

BACKGROUND:

The Township has recently applied to the Green and Inclusive Community Buildings (GOCB) Grant Program for funding to complete energy efficient upgrades to the Community Center Complex. As part of that application the Township has proceeded to complete a detailed design to move forward with the works proposed within the design if successful in the application or to support future funding opportunities if the GICB application is rejected. Included within the detailed design is an HRV system for the arena change rooms and a kitchen make up air system for the community center kitchen, estimated at \$80,000 for both units installed. The GICB program does not support installation of new systems that would increase energy consumption and greenhouse gas emissions which these two items fall under, and staff shall explore options to fund the instillation of these items. A key component in any funding application is having a detailed plan in place for the application so that the reviewer fully understands the intent of the application.

The Green and Inclusive Community Buildings (GICB) program is a national merit-based program with the objective of improving the availability and condition of community buildings in Canadian communities experiencing higher needs and who are currently underserved. Eligible retrofits must include green retrofit measures, and where applicable must include measures that increase the overall accessibility and/or safety of the building. Green retrofit measures are those that renovate, upgrade, and/or repair aspects of a physical building in a way that improves environmental outcomes. The GICB program has targets of 10%, up to preferably 25% or more, of energy savings and green house gas reductions.

The recommended energy saving measures have been chosen based on the objectives of the Green and Inclusive Community Buildings program. The measures are described in detail below, including which criteria of the GICB program are met by the specific measure and the applicable payback years. Costing noted below is rough order-of-magnitude costing for comparative purposes only and does not include costs such as project administration costs, inflation due to supply chain interruptions.

			5
Recommended Measures	Capital Cost (\$)	Justification	Simple Payback Years
Community Center Lighting Replacements Replace light fixtures with LED, provide new occupancy/dimming controls in Offices, Washrooms and Main Hall area	\$50,000	Energy savings/greenhouse gas reduction	25
Community Center A/C to Heat Pumps	\$20,000	Energy savings/greenhouse gas reduction	9
Community Center Furnace Controls	\$2,500	Energy savings/greenhouse gas reduction	11
Community Center Emergency Shelter Washrooms	\$460,000	Improved accessibility and improved climate resiliency	N/A
Arena Change Room Lighting Replacements Replace with LED fixtures, provide occupancy controls	\$9,000	Energy savings/greenhouse gas reduction	29.3
Arena Lighting Replacements Replace with LED fixtures, provide occupancy/dimming controls	\$29,960	Energy savings/greenhouse gas reduction	9.8
Solar PV System	\$55,900	Energy savings/greenhouse gas reduction	9.8
Structural Wind Resistance Retrofits	\$75,000	Climate Resiliency	N/A
Estimated renovations and retrofits cost		\$702,360	

Horton Township had on of the highest growth of all the municipalities in Renfrew County between 2011 and 2016. The population grew 6.2%, from 2719 to 2887 residents and increased to a 10.2% growth rate from 2016 to 2022 with a current population of 3182

residents. The population growth is predicted to continue driven by increased access due to the widening of Highway #17 and increased broadband and cell access supporting remote working. The increased growth embraces a need for more community support from the existing community center

The maximum amount allocated to any retrofit project under this program will be \$250,000 in grant funding and \$25 million in contribution funding. If successful in securing funding the maximum eligible funding allotment is 80% of the total eligible costs leaving the Township to fund an estimated \$140,472 toward the recommended upgrades and retrofits proposed and the Township may need to carry the cost above the grant funding allotment until we receive the contribution funding.

ALTERNATIVES:

N/A

FINANCIAL IMPLICATIONS:

As stated in the background

ATTACHMENTS:

22-1026A - 80% Submission Review – Architectural 22-1026A - 80% Submission Review – Electrical 22-1026A - 80% Submission Review – Mechanical

CONSULTATIONS:

JP2G Consultants Ed Schultz - Project Manager Patrick Scission – Electrical Technologist

Prepared by:Adam Knapp, Public Works ManagerReviewed by:Hope Dillabough, CAO/Clerk

GENERAL NOTES

. THE INFORMATION PRESENTED IN THESE DRAWINGS HAS BEEN DESIGNED AND ANALYZED IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE CODES.

 OBSERVE CONSTRUCTION SAFETY MEASURES OF THE BUILDING CODE, PROVINCIAL GOVERNMENT OCCUPATIONAL HEALTH AND SAFETY ACTS, AND THE REGULATIONS GOVERNING COUNCIL WORKMAN'S COMPENSATION BOARD AND MUNICIPAL AUTHORITIES. MOST STRINGENT REQUIREMENTS APPLY.

 A) THE CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT OF PERMITS, LICENSES, INSPECTIONS AND CERTFICATES WHICH ARE INCESSARY FOR THE PERFORMANCE OF THE WORK CUSTOMARLY OGTANED BY CONTRACTORS AFER ISSUANCE OF BUILDING FEMILT. THE CONTRACT FROC INCLUDES THE COST FOR SUCH PERMITS, LICENSES, INSPECTIONS, CERTIFICATES AND THEIR PROCUREMENT.

B) THE CONTRACTOR(S) WILL CONSTRUCT IN ACCORDANCE WITH THE APPROVED PERMIT DRAWINGS INCLUDING ALL SUPPLEMENTAL INSTRUCTIONS AND CHANGE NOTICES, APPROVED SHOP DRAWINGS AND ENGINEERING REPORTS WHICH FORM THE CONSTRUCTION DOCUMENTS.

C) THE CONTRACTOR WILL MAINTAIN AT ALL TIMES ON-SITE COPIES OF ALL CONSTRUCTION DOCUMENTS.

D) THE CONSTRUCTION DOCUMENTS ARE TO BE READ AS A WHOLE. NEITHER THE ARRANGEMENT, ORGANIZATION OR DISTRBILITON OF THESE DOCUMENTS SHALL CONTROL OR LIMIT THE BESPONSIBULT OF THE CONTRACTOR(S) OR TRADES TO COMPLETE THER WORK ACCORDING TO THESE DOCUMENTS.

4. A) EXAMINE SITE AND ALL CONDITIONS THAT WILL AFFECT THIS WORK SUBMISSION OF TENDER DEEMED CONFIRMATION THAT TENDERER HAS INSPECTED SITE AND IS KNOWLEDGEABLE OF EXISTING CONDITIONS, CONTRACTOR IS TO AFFORM THE CONSULTATIO OF ANY DISCREPANCES OF CHANGES OF SITE CONDITIONS, ANY DISCREPANCIES WITH THE DRAWING SHALL BE REPORTED TO THE CONSULTATION.

B) THE CONTRACTOR WILL MAINTAIN A SAFE AND ORDERLY SITE AND COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS.

C) CONTRACTOR(S) AND ALL SUBTRADES MUST REVIEW ALL DRAWINGS, CHECK AND VERIFY ALL SITE CONDITIONS AND DIMENSIONS, REPORT TO GENERAL CONTRACTOR, CONSULTANT OR PROJECT COORDINATOR ANY DISCREPANCIES OR UNBATTRACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE WORK.

5. CONTRACTOR TO PROVIDE ADECULTE PROTECTION OF ALL EXISTING COMPONENTS DURING CONSTRUCTION DAMAGE OCCURRING TO NEW OR SUSTING COMPONENTS SHULL SE REPARED OR REPAREMENT AT REVENTION OF REPAREMENT CONTRACTORS IN THE REPAREMENT PROTECTION OF NEW FLOORING COODS OLIVING CONSTRUCTION, ON CAMPET, PROTECT WITH INVICEUM, ON WOOD PROTECT WITH LAYERS OF CARDROARD, PROTECT FINISHED WORK AGAINST DAMAGE UNTIL MOVE-IN.

 ALL MATERIALS SHALL BE NEW AND CONFORM TO THE MINIMUM APPLICABLE STANDARDS OF THE CANADIAN STANDARDS BOARD, THE BUILDING CODE AND THE APPLICABLE PROVINCIAL AND MUNICIPAL CODES.

. A) DURING CONSTRUCTION, THE SITE SHALL BE KEPT IN A NEAT AND ORDERLY CONDITION WITH GARBAGE REMOVED DALY. UPON COMPLETION OF EACH PHASE, CONTRACTOR AND SUB-TRADES ARE TO REMOVE ALL SUBRUL SUBRIFILAS. RUBBISH AND GARBAGE, AND LEAVE THE PREMISES IN A CLEAN STATE READY FOR THE CLIENT TO MOVE M.

B) THE CONTRACTOR WILL MAINTAIN REGISTRATION AND GOOD STANDING WITH WSIB DURING CONSTRUCTION.

 CONTRACTOR IS TO ENSURE THAT ALL TRADES; ELECTRICAL, MECHANICAL, TELECOMMUNICATIONS ECT. HAVE COMPLETED THEIR PORTION OF WORK BEFORE BOARDING UP BOTH SDE OF STUDS. THIS IS TO INCLUDE ALL INSPECTIONS AS REQUIRED BY LOCAL AND PROVINCIAL BY-LAWS AND BUILDING CODES.

 THE CONTRACTOR SHALL NOTIFY THE CHIEF BUILDING OFFICIAL AT THE READINESS AND COMPLETION OF CONSTRUCTION STAGES AS PER 2.4.5.1(2) AND 2.4.5.2 OF BUILDING CODE. THE CONTRACTOR SHALL BE PRESENT AT EACH INSPECTION AS APPLICABLE UNDER 2.4.5.3. OF THE CODE.

10. THE CONTRACTOR SHALL FORWARD ALL INSPECTION REPORTS TO APPLICABLE CONSULTANTS AS SOON AS RECEIVED.

11. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL MATERIALS USED IN BUILDING COMPONENTS AND ASSEMBLIES SEPARATING DISSMILLAR ENVIRONMENTS AND ASSEMBLIES EXPOSED TO THE EXTERIOR, INCLUDING CONNECTIONS, SHALL BE COMPATIBLE WITH ADJOINING MATERIALS AND RESISTANT TO MECHANISMS OF DETERIORATION FOR THE PURPOSE INTENDED.

 WHERE POSSIBLE, MATERIALS OR COMBINATIONS OF MATERIALS USED TO SEPARATE DISSIMILAR ENVIRONMENTS AND ASSEMBLIES SHOULD BE PART OF A SYSTEM DESIGNED FOR THE PURPOSE INTENDED.

 CONTRACTOR IS TO INFORM THE CONSULTANT OF ANY MATERIAL THAT IS UNAVAILABLE AS SPECIFIED OR REQUIRING A DELIVERY TIME WHICH CAN'T MATCH CONSTRUCTION SCHEDULE / PROJECT DELIVERY DATE.

4. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL BE VERIFIED ON SITE BY CONTRACTOR WHO SHALL BE FULLY RESPONSIBLE FOR THEIR ACCURACY.

15. CONTRACTOR TO SITE VERIFY ALL HEADROOM CLEARANCES ARE IN CONFORMANCE WITH BUILDING CODE DURING CONSTRUCTION, REPORT TO CONSULTANT ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT THE REQUIRED HEADROOM CLEARANCES.

16. ALL WALLS TO BE CONSTRUCTED AT 45° AND 90° TO EACH OTHER UNLESS NOTED OTHERWISE 17. ALL PLINNING TO BE IN ACCORDANCE WITH PART 7 OF THE 2012 ONTABIO BUILDING CODE

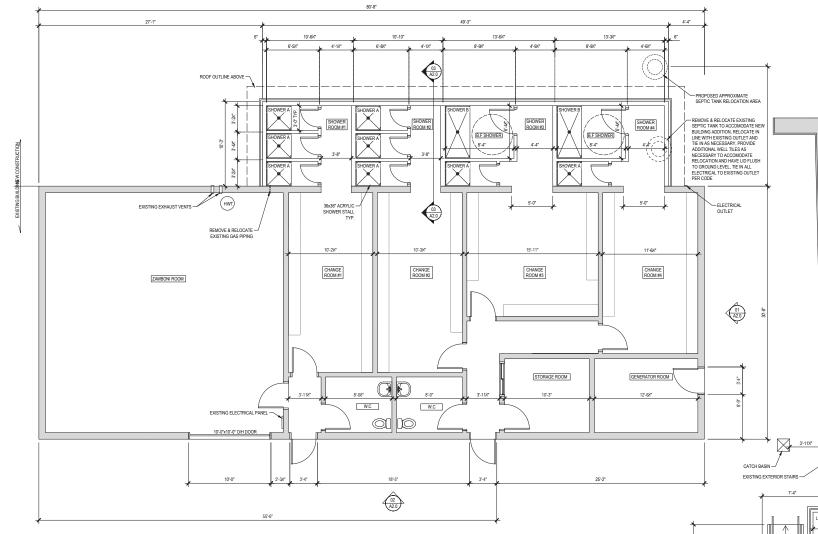
18. ALL ELECTRICAL WORK TO BE IN CONFORMANCE WITH ESA REGULATIONS

19. PAINTING TO CONSIST OF ONE PRIME AND TWO FINISH COATS, CONTRACTOR TO VERIFY WITH OWNER COLOUR SELECTION

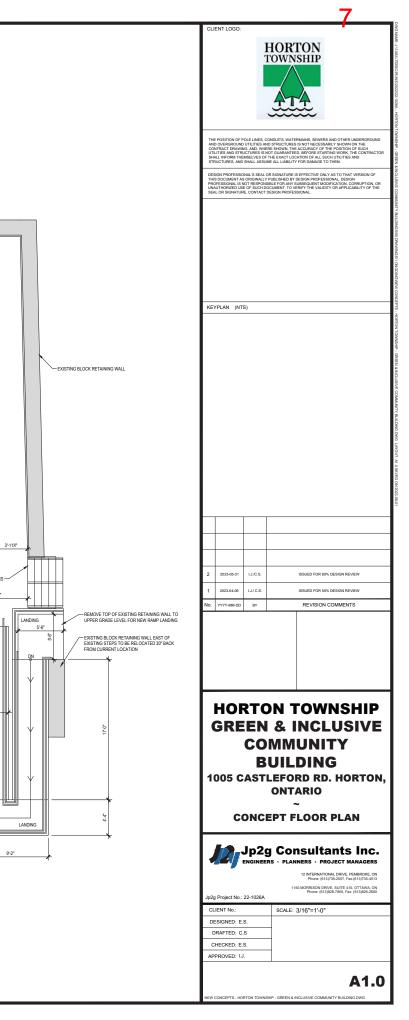
20. PROVIDE OPENINGS, INSERTS, ANCHORS ETC. FOR ELECTRICAL AND MECHANICAL SYSTEMS, COORDINATE WITH OTHER TRADES.

21. PAINTING TO CONSIST OF ONE PRIMER AND TWO FINISH COATS, CONTRACTOR TO VERIFY WITH OWNER COLOUR SELECTION AND NUMBER OF COLOURS.

22. PROVIDE WATER-RESISTANT GYPSUM BOARD IN ALL WET AREAS.



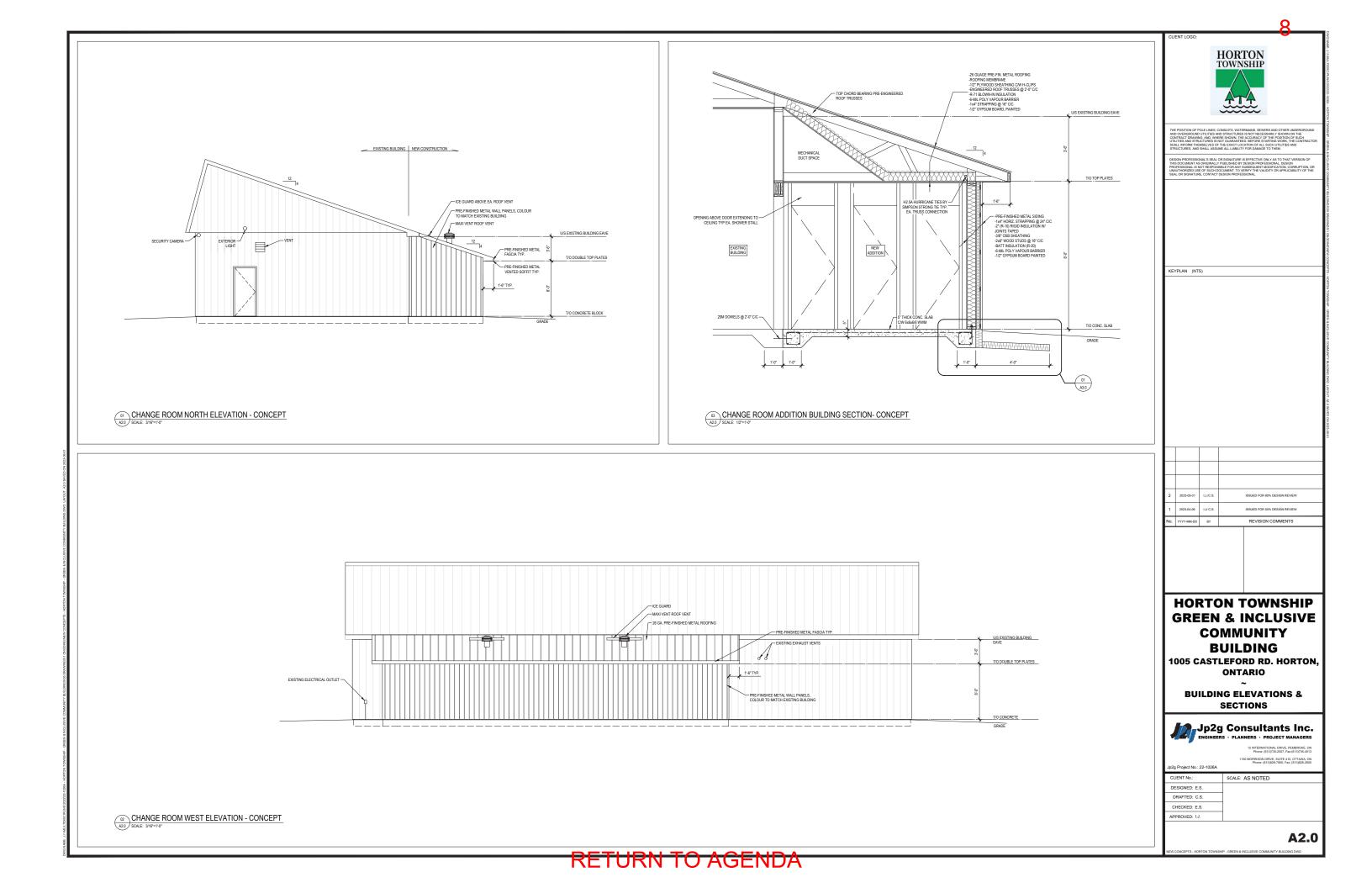
CHANGE ROOM CONCEPT FLOOR PLAN SCALE: 3/16'=1'-0'

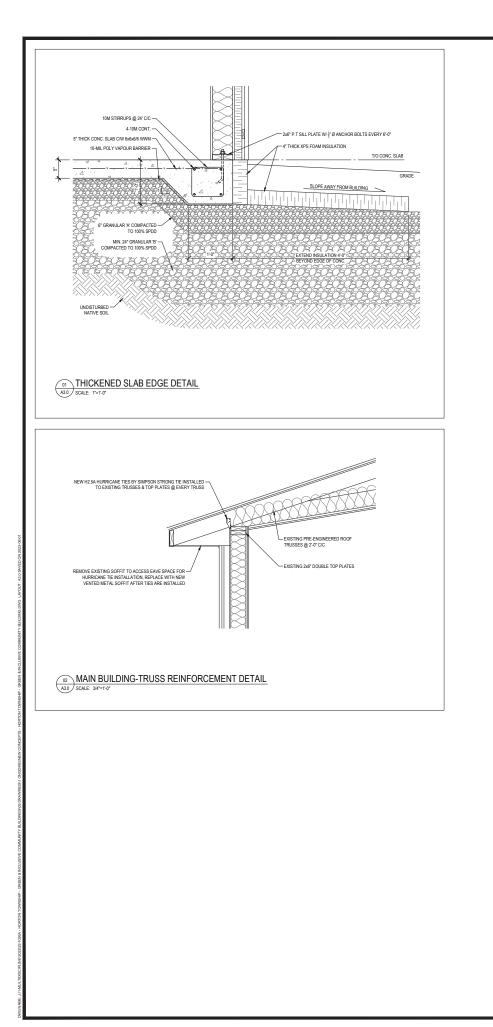


RE-ENG BUILDING -STRUCTURE

NEW RAMP

H





			Q
CLIE	NT LOGO:	HT	HORTON OWNSHIP
			NDUITS, WATERMANNS, SEWERS AND OTHER UNDERGROUND STRUCTURES IS NOT NECESSARILY SHOWN ON THE E SHOWN, THE ACQURACY OF THE POSITION OF SUCH IT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR RE EXACT LOCATION OF ALL SUCH UTILITIES AND ALL LIABILITY FOR DAMAGE TO THEM.
DESI THIS PROF UNAL SEAL	GN PROFESSIO DOCUMENT AS FESSIONAL IS N JTHORIZED USI . OR SIGNATUR	NAL'S SEAL OF ORIGINALLY P IOT RESPONSIE E OF SUCH DOO E, CONTACT DE	X SIGNATURE IS EFFECTIVE ONLY AS TO THAT VERSION OF BUILSHED BY DESION PROFESSIONAL, DESION LE FOR ANY SUBJECT IN NORDER-ATION, CORPUTING, OR LE FOR ANY SUBJECT VIEW IN OR APPLICABLITY OF THE SIGN PROFESSIONAL.
KEY	PLAN (NT:	5)	
2	2023-05-31 2023-04-06	I.J./C.S.	ISSUED FOR 80% DESIGN REVIEW
No.	YYYY-MM-DD	BY	REVISION COMMENTS
	-	-	N TOWNSHIP & INCLUSIVE
			MMUNITY UILDING
10	005 C	ASTL	EFORD RD. HORTON, ONTARIO
			~ DETAILS
	27	Jp2g	Consultants Inc. s · PLANERS · PROJECT MANAGERS MANAGEMENTIONAL OPERATION OF THE ADDRESS OF TH
CLI	Project No.: ENT No.:		1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON Phone: (613)828-7800, Fax: (613)828-2800 SCALE: AS NOTED
DF CH	SIGNED: E. RAFTED: C. HECKED: E.	s. s.	
APP	ROVED: I.J		A3.0
NEW C	ONCEPTS - HO	RTON TOWNSH	IP - GREEN & INCLUSIVE COMMUNITY BUILDING.DWG

HORTON TOWNSHIP GREEN AND INCLUSIVE BUILDINNG COMMMUNITY BUILDINGS 1005 CASTLEFORD ROAD, RENFREW, ON K7V 3Z8

ELECTRICAL LEGEND - LIGHTING				
SYMBOL	DESCRIPTION			
\square	RECESSED MOUNTED LINEAR LUMINARIE - SIZE AND TYPE AS PER LUMINARE SCHEDULE			
	SURFACE MOUNTED LINEAR LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE			
	SUSPENDED MOUNTED LINEAR LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE			
	WALL MOUNTED LINEAR LUMINARE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE			
Ŷ	WALL MOUNTED LUMINARE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE			
0	RECESSED MOUNTED DOWNLIGHT LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDU			
0	PENDENT SUSPENDED LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE			
0	SURFACE MOUNTED DOWNLIGHT LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULI			
	HATCH DENOTES UNSWITCHED FIXTURE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE			
LX A	4' X 4' CEILING MOUNTED LUMINAIRE; 'LX DENOTES TYPE, 'A' DENOTES SWITCH			
LX A	2 X 4" CEILING MOUNTED LUMINAIRE; "LY DENOTES TYPE, "A" DENOTES SWITCH			
Lx A	4' LONG WRAPAROUND LUMINAIRE; "Lx' DENOTES TYPE, 'X' DENOTES SWITCH			
\checkmark	CEILING MOUNTED DESTRATIFICATION FAN COMPLETE WITH INTEGRAL LUMINAIRE.			
k⊗ł	CEILING MOUNTED EXIT SIGN C/W DIRECTIONAL ARROW			
\otimes	WALL MOUNTED EXIT SIGN			
4	EMERGENCY LIGHTING BATTERY PACK OW TWO REMOTE HEADS			
40	CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD			
4,A	WALL MOUNTED EMERGENCY LIGHTING REMOTE HEAD			
-®=	EMERGENCY LIGHTING CONTROL UNIT			
\$	120V WALL MOUNTED SWITCH			
\$ ^a	120V WALL MOUNTED SWITCH - 3-WAY			
\$ ^D	120V WALL MOUNTED DIMMER SWITCH			
\$ [#]	120V WALL MOUNTED KEYED SWITCH			
\$ ^F	120V CEILING FAN SPEED CONTROL SWITCH			
\$ ⁸	120V SPEED CONTROL SWITCH			
\$ ^{WP}	120V WALL WEATHERPROOF SWITCH			
\$ ^{LV}	24V LOW VOLTAGE WALL SWITCH			
\$	347V, 20A THREE-WAY TOGGLE SWITCH			
<u>OD</u>	120V WALL MOUNTED DIMMING OCCUPANCY SENSOR			
01	WALL MOUNTED OCCUPANCY SENSOR - LINE VOLTAGE - SINGLE RELAY			
02	WALL MOUNTED OCCUPANCY SENSOR - LINE VOLTAGE - DUAL RELAY			
0	CEILING MOUNTED OCCUPANCY SENSOR - LINE VOLTAGE - SINGLE REALY			
(2)	CEILING MOUNTED OCCUPANCY SENSOR - LINE VOLTAGE - DUAL RELAY			
Ō	CORNER MOUNT LONG RANGE OCCUPANCY SENSOR - LOW VOLTAGE			
\$1	WALL MOUNTED OCCUPANCY SENSOR - LOW VOLTAGE - SINGLE RELAY			
\$2	WALL MOUNTED OCCUPANCY SENSOR - LOW VOLTAGE - DUAL RELAY			
(9)	CEILING MOUNTED OCCUPANCY SENSOR - LOW VOLTAGE - SINGLE REALY			
8	CEILING MOUNTED OCCUPANCY SENSOR - LOW VOLTAGE - DUAL RELAY			
PP	POWER PACK			
RCX	DIMMING ROOM CONTROLLER; 'RC.X' DENOTES TYPE			
TC	TIMECLOCK			
rc	PHOTOCELL			

SYMBOL	DESCRIPTION			
φ	DUPLEX RECEPTACLE 120V, 15A, 'U' GROUND			
Щ,	DUPLEX RECEPTACLE WITH INTEGRAL TAMPER RESISTANT SHUTTER, 120V, 15A, 'U' GROUND			
ð	DUPLEX RECEPTACLE WITH INTEGRAL GFI PROTECTION, 120V, 15A, 'U' GROUND			
Ö ^{we}	120V, 15A, 'U' GROUND DUPLEX RECEPTACLE WITH INTEGRAL GFI PROTECTION MOUNTED IN WEATHERPROOF ENCLOSURE. C/W WHILE-IN-USE COVER			
	DUPLEX RECEPTACLE 120V, 20A, 'U' GROUND			
ö	DUPLEX RECEPTACLE WITH INTEGRAL GFI PROTECTION, 120V, 20A, 'U' GROUND			
₿'	DUPLEX RECEPTACLE WITH INTEGRAL TAMPER RESISTANT SHUTTER AND TWO USB CHARGING PORTS			
8	QUAD RECEPTACLE 120V, 15A, 'U' GROUND			
Ф ^{х.хоя}	SPECIAL NON-LOCKING RECEPTACLE 'X-XXR' DENOTES CSA CONFIGURATION TYPE			
\$	DESKTOP MOUNTED DUPLEX RECEPTACLE, 120V, 15A, 'U' GROUND			
٢	CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 15A, 'U' GROUND			
(()	CEILING MOUNTED DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS, 120V, 15A, 'U' GROUND			
87	DOUBLE GANG POWERVIDEO RECESSED WALL BOX			
\$~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TRIPLE GANG POWER/DATAVIDEO RECESSED WALL BOX			
	FLUSH FLOOR MOUNTED POWER/VOICE/DATA BOX			
0	POWER POLE			
JB	JUNCTION BOX			
٥	120V SINGLE PHASE DIRECT CONNECTION			
٥	208V SINGLE PHASE DIRECT CONNECTION			
٥	208V THREE PHASE DIRECT CONNECTION			
۵	347V SINGLE PHASE DIRECT CONNECTION			
0	600V SINGLE PHASE DIRECT CONNECTION			
۲	600V THREE PHASE DIRECT CONNECTION			
22223	PANELBOARD, SURFACE MOUNTED			
10000	PANELBOARD, FLUSH MOUNTED			
\$ ^S	SPEED SWITCH			
\$ ^M	MANUAL STARTER SWITCH			
\$ ^{PL}	MANUAL STARTER SWITCH C/W PILOT LIGHT			
EPO 오	EMERGENCY POWER OFF C/W KEY RELEASE			
- 오	EMERGENCY PUSH-BUTTON			
ġ	EMERGENCY LIGHT			
4⊠	START/STOP STATION			
-	UNFUSED DISCONNECT SWITCH			
42	FUSED DISCONNECT SWITCH			
	DRY TYPE TRANSFORMER			
Ø	SINGLE PHASE MOTOR			
à	THREE PHASE MOTOR			
M	MANUAL MOTOR STARTER			
± 1	MANUAL MOTOR STARTER C/W PILOT LIGHT			
VFD	VARIABLE FREQUENCY DRIVE			
0	THERMOSTAT			
(M)	METER SOCKET TO HYDRO OTTAWA STANDARD			
©	CONTACTOR			
0				

ELECTRICAL LEGEND - SYSTEMS				
SYMBOL	DESCRIPTION			
	VOICE OUTLET			
V	VOICE / DATA OUTLET			
∇	DATA OUTLET			
W	VIDEO OUTLET			
V	INTERCOM			
CR	CARD READER			
Eŝ	ELECTRIC STRIKE			
KP	KEYPAD			
DC	DOOR CONTACT			
RE	REQUEST TO EXIT			
D	MOTION DETECTOR			
	CAMERA			
A	INDOOR VIDEO / INTERCOM MASTER MONITOR STATION			
AS	INDOOR VIDEO / INTERCOM SLAVE MONITOR STATION			
AP	OUTDOOR VIDEO / INTERCOM DOOR STATION			
Ð	WIRELESS ACCESS POINT			
	WALL PENETRATION SLEEVE			
	CABLE TRAY			
S	CEILING MOUNTED PUBLIC ADDRESS SPEAKER			
Ŷ	WALL MOUNTED PUBLIC ADDRESS SPEAKER			
S _{WP}	EXTERIOR WALL MOUNTED PUBLIC ADDRESS HORN			
J	CLASSROOM AMPLIFIER			
OHP	OVERHEAD PROJECTOR			
P	UNIVERSAL WASHROOM EMERGENCY NOTIFICATION PUSH-BUTTON			
Ŷ	UNIVERSAL WASHROOM BUZZER / STROBE			
X	EMERGENCY NOTIFICATION SYSTEM HORN			
۲	BARRIER FREE PUSH-BUTTON			
•	PUSH-TO-LOCK BUTTON			

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AH	DEVICE MOUNTED 305mm ABOVE HEATER
CL	CEILING MOUNTED
CP	CLASSROOM CONTROL PANEL
EF	EXHAUST FAN
DF	DRINKING FOUNTAIN
DOOR OP.	DOOR OPERATOR - BARRIER FREE
HD	HAND DRYER
HK	HOUSE KEEPING
HWT	HOT WATER TANK
JP	JOCKEY PUMP
MD	MOTORIZED DAMPER
OC	DEVICE MOUNTED 150mm ABOVE COUNTER
GND	GROUND
RB	RELAY BASE
TL	TWIST-LOCK
ТХ	TRANSFORMER
UC	UNDERCOUNTER
VFD	VARIABLE FREQUENCY DRIVE
WG	WIRE GUARD
WP	WEATHER-PROOF
XX-YY-ZZ	'XX' DENOTES PANEL; 'YY' DENOTES CIRCUIT NUMBER; 'ZZ' DENOTES SWITCH NUMBE
(E)	EXISTING ITEM INCLUDED IN BASE BUILDING. INDICATED TO REMAIN.
(EC)	EXISTING ITEM INDICATED TO REMAIN. RE-WIRE TO ACCOMMODATE CIRCUITS/SWITC SHOWN, DISCONNECT EXISTING ITEM INDICATED AND MAKE SAFE.
(ER)	RELOCATE / REUSE ITEM - EXISTING LOCATION
(N)	INDICATES NEW DEVICE
(R)	DISCONNECT AND REINSTALL EXISTING ITEM TO ACCOMMODATE NEW CONSTRUCTION
(RC)	RELOCATE / REUSE ITEM - NEW LOCATION. PROVIDE NEW WIRING/SWITCHING AS SH
(RR)	REMOVE AND REPLACE WITH NEW UNIT
(X)	DISCONNECT AND DISPOSE OF ITEM. REMOVE ALL ASSOCIATED WIRING AND CONDU TO SOURCE AND MAKE SAFE.
(RL)	RELOCATE ITEM AS INDICATED. REFER TO DEMOLITION AND NEW WORK PLANS.
()	

SYMBOL

----- NEW ITEM TO BE PROVIDED ----- EXISTING ITEM TO REMAIN ---- ITEM TO BE DEMOLISHED

	DRAWING LIST
E1.0	GENERAL NOTES, LEGENDS AND DRAWING
E1.1	SPECIFICATIONS
E2.0	ELECTRICAL SITE PLAN AND DETAILS
E3.0	OUTDOOR COVERED ARENA - LIGHTING DI
E3.1	CHANGE ROOM BUILDING - LIGHTING DEM
E3.2	CHANGE ROOM BUILDING - POWER & SYST
E4.0	COMMUNITY CENTER - GROUND FLOOR LI
E4.1	COMMUNITY CENTER - SECOND FLOOR LIK
E4.2	COMMUNITY CENTER - POWER AND SYSTE
E5.0	SINGLE LINE DIAGRAM - DEMOLITION AND
E5.1	PANEL SCHEDULES - DEMOLITION
E5.2	PANEL SCHEDULES - NEW WORK
E5.3	SOLAR TBD

	ELECTRICAL SCOPE OF WORK
	E2 DRAWINGS SERIES - SITE WORKS PROVIDE NEW LECTRIC VEHICLE CHARGING STATIONS AS SHOWN. ED SERIES - GHAVE REDON AND OUTDOOR AREM REPAYLEL LICKSTING NERVERST LIMMARES NITH NEW ENERGY EFFCENT LED FXTURES. REQUEL LICKSTING NERVERSTEL LIMMARES SHOWN CAN BERRY AND DIMMING AS SHOWN. SINGURF ANGLITY ADDITOON MODIFY FOWER DETIRUITION SYSTEM AS SHOWN CAN RECHARICLE SYSTEM MODIFICATIONS NERVERSHEELAMPE SISTING MERCIPANIES INTHINEW ENERGY EFFCENT LED LUMANRES. RROVIDE NEW COCLEWANCY SENSING AND DIMMING CONTROLS AS SHOWN NODIFY FOWER DESTINGUISTIC SYSTEM AS SHOWN CAN RECHARICLE SYSTEM MODIFICATIONS NERVERSHEELAMPE SISTING MERCIPANIES SISTING AND DIMMING CONTROLS AS SHOWN NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES, STITEM MODIFICATIONS NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES, STITEM MODIFICATIONS NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES, STITEM MODIFICATIONS NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES, STITEM MODIFICATIONS NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES, STITEM MODIFICATIONS NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES STITEM MERCIPANIES NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES, STITEM MODIFICATIONS NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES, STITEM MODIFICATIONS NODIFY FOWER DESTINGUISTICS AS SHOWN FOR MERCIPANIES STITEM AS SHOWN FOR MERCIPANIES. NODIFY FOWER DESTING AND DIMMING CONTROLS AS SHOWN NODIFY FOWER DESTING AND DIMMING AS SHOWN NODIFY FOWER DESTING AND DIMMING AS SHOWNERS NODIFY FOWER DESTING AND DIMMING AS SHOWNERS NODIFY FOWER DESTING AND DIMINIES AS SHOWNERS NODIFY FOWER DESTING AND DIMINIES AS SHOWNERS NODIFY FOWER DESTING AND DIMINIES
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	GENERAL NOTES
	 PROCUREMENT: UPON SHOP BRAVING APPROVAL. THE CONTRACTOR SHALL PROVIDE TOWNSHIP AND JP30 WITH BUF/CHEM TOFALL, PROOF, IN WRITING, CONFRIMING THE MATERIALS HAVE BEEN ORDERED AND MICATING THE EXPECTED GELVERY DATE TO SITE. RECYCLE:

DESCRPTION		ELECTROLC CONTRACTOR SHALL PROVIDE RECYCLE DIRIGAL CERTIFICATES FOR ALL REMOVES FORTHERS BALLASTA NO LAMPART. THE CENTRACTE SHALL REMOVES AN ERRED TO TOMISSIFE AND OF ITERS CONTRACTOR TO TAKE THE FOLLOWING INFORMATION AND SEND TO TOMISSIFE AND LAMPA CESTING REMOVES TO LIGHTER THE ADDRESS AND SEND TO TOMISSIFE AND UMARY CESTING REMOVES LIGHTER THE REMOVES AND MAIN TATURER. REMOVES AND MODEL. TYPE AND WAYDER LIGHTERS AND ARE'S USED SEND MODEL. TYPE AND WAYDER LIGHTERS AND ARE'S USED SEND MODEL. TYPE AND WAYDER LIGHTERS AND ARE'S USED SEND CONCELTIVE AND DEVICES IN SPACE. RECYCLE ALL LIGHT FIXTURES AND LAMPONED ELECTRICAL EQUIPMENT AND DEVICES IN SPACE. RECYCLE ALL LIGHT FIXTURES AND LAMPS. PROVIDE RECEPT FINOL BROADS ALCLITY.
	3.	EXISTING NORMAL LIGHTING IS 120VAC FED FROM PANELS SHOWN ON FLOOR PLANS. EXISTING BMERGENCY LIGHTING IS 120VAC INPUT (5VDC & 12VDC OLIPUT BATTERY PACKS) AND REMOTI HEADIS. CONTRACTOR SHALL CONFIRM EXISTING VOLTAGES PRIOR TO SUBMITTING SHOL DRAWINGS.
	4.	PATCH, REPAIR, REPAINT AND MAKE GOOD ALL CEILINGS THAT ARE DAMAGED AS PART OF THE WORK. PROVIDE NEW T-BAR TRIM, CLIPS AND SUPPORT AS REQUIRED. PROVIDE NEW CEILING TILES

4.	PATCH, REPAIR, REPAIRT AND MAKE GOOD ALL CELINGS THAT ARE DAMAGED AS PART OF THIS WORK, PROVIDE NEW T-BAR TRIM, CLIPS AND SUPPORT AS REQUIRED. PROVIDE NEW CELING TILES A REQUIRED. CELING TILES SHALL BE INDEUM SCALE NON DIRECTORIAL FISSURED PATTERN WITH FURK ERSTANCE RATED. CERTIFIED FOR USE IN 1 HIR FLOOR TO CELING, WIEGHT TO BE WITTE FIRE RESISTANCE RATED. CERTIFIED FOR USE IN 1 HIR FLOOR TO CELING, WIEGHT TO BE
	MIN 1LB/SQ.FT. CUTTING, INSTALLATION (NEW OR BROKEN) TILES AND GRID BY THIS CONTRACTOR).
5.	CONTRACTOR IS TO INVESTIGATE AND VERIFY VOLTAGES BEFORE GREENING OR INSTALLING AM MATERIAL CONTRACTOR TO CARRY ALL COSTS TO MAKE AMY MODIFICATIONS TO EXISTING WIRING AND SERVICE TO SUPPORT THE NEW LIGHT FATURE. CONTRACTOR WILL CARRY COSTS FOR ALL NEESENARY ACCESSIORES REQUIRED TO COMPLETE THE WORK INCLUDING TRAASFORDERS, CONTRACTOR SHALL ALLOW FOR NEW SEISMIC STAULTOR AT A CONTRACTOR ESTING STRUCTURE FOR ALL NEW FUNCTIVES.

6.	CONTRACTOR IS RESPONSIBLE FOR USING PROPER LOCK OUT / TAG OUT PROCEDURES WHIL WORKING AT THIS FACILITY. CONTRACTOR TO DEMONSTRATE TO THE TOWNSHIP, THEIR LOCK OUT TAG OUT PROCEDURES BEFORE STARTING ANY WORK AT THE FACILITY.
7.	PROVIDE NEW SEISMIC CHAINS FOR ALL NEW FIXTURES TO BUILDING STRUCTURE.
	NOT ALL ITEMS TO BE REMOVED OR RELOCATED ARE SHOWN FOR CLARITY. THIS CONTRACTO SHALL VERIFY ON SITE ALL ITEMS AFFECTED BY THIS WORK.

REMOVE AND SAFELY DISPOSE OF ALL ABANDONED WIRING AND CONDUIT ALL THE WAY BACK TH SOURCE OR PANEL

- SHALL ALLOW TO DEMONSTRATE NEW EMERGENCY LIG
- ELECTRICAL CONTRACTOR SHALL ALLO BUILDING WILL REMAIN OCCUPIED THROUGH OUT CONSTRUCTION. CONTRACTOR SHALL WORK ARQUND EXISTING BUILDING ACTIVITIES, SCHEDULE WORK IN ADVANCE WITH TOWNSHIP AND PROVIDE TEMPORARY LIGHTING AND WINING AS REQUIRED.
- NOT ALL ITEMS TO BE REMOVED OR RELOCATED ARE SHOWN FOR CLARITY. THIS CONTRACTO SHALL VERIFY ON SITE ALL ITEMS AFFECTED BY THIS WORK.
- REMOVE AND SAFELY DISPOSE OF ALL ABANDONED WIRING AND CONDUIT ALL THE WAY BACK TO SOURCE OR PANEL. ALL REMOVED MATERIALS SHALL BE REMOVED FROM SITE AND PROPERLY

RETURN TO AGENDA

		HORTON
		HORTON TOWNSHIP
		J. J. J.
PRO	JECT ENGINEER:	
		Jp2g Consultants Inc
	JE	ENGINEERS · PLANNERS · PROJECT MANAGER: 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 859 PHONE 613,878,700 FAX 813,878,7400
		PRUNE: 613-626-7600 PAX: 613-626-2600 Jp2g Project #: 22-1028A
NOT		OR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS
	WHICH MAY OCC SPECIFICATIONS	CUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS, S AND THE DESIGN INTENT THEY CONVEY.
2	AMBIGUITIES PRI SEEK CLARIFICA	ARE ALLEGED ERRORS, OMISSIONS, INCONSISTENCIES OR RESENT IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MU ITION FROM JP2G. ANY COSTS OR SCHEDULE DELAYS WHICH
	RESPONSIBILITY	ILURE TO CONTACT JP2G FOR DIRECTION SHALL BE SOLELY TI OF THE CONTRACTOR.
3.	INSTRUMENT OF DRAWING MAY B	S THE PROPERTY OF JP2G CONSULTANTS INC. AND IS AN SERVICE THAT IS PROTECTED BY COPYRIGHT. NO USE OF TH BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF JP2G
4	CONSULTANTS IN DO NOT SCALE D	DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIONS AND/OF
5	TO COMMENCEN	E INTERFERENCE/CONFLICTS TO JP2G FOR CLARIFICATION PR MENT OF THE WORK. OR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH
	SUBTRADES AND	D SHALL ADDRESS CONSTRUCTION TEAM COORDINATION ITEN NG REQUESTS FOR INFORMATION FROM JP2G.
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Unterval DUPORT TO THE GENERAL CONDITIONS. PROVIDE ALL LABOUR, MATERIALS, PRODUCTS, EQUIPMENT, SERVICES AND ALL INCIDENTALS REQUIRED TO COMPLETE, TEST AND COMMISSION ALL ELECTRICAL WORK SHOUND ON THE DRAWINGS AND/OR NOTED DREAMDER ELECTRICAL WORK SHALL BE CARRIED OUT BY

1. <u>CODES AND STANDARDS</u> 30 COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING BUT NOT NECESSARILY LIMITED TO: CURRENT ELECTRICAL CODE CSA C22.1, PERTINENT ESA ELECTRICAL SAFETY AUTHORITY] BULLETING AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURSDICTION.

8. <u>PERMITS AND FEES</u> OBTAIN PERMITS NECE

OFTAIN PERMITS NECESSARY FOR THE EXECUTION OF THE ELECTRICAL WORK. ON COMPLETION OF THE WORK FURNISH COPIES OF THE CERTRICATES OF ACCEPTIANCE FROM THE INSPECTION AUTHORITY AND PERTINENT AUTHORITIES HAVING JURGIDITION. PAY ALL ASSOCIATED COSTS AND FEES, INCLUDING ANY PREMIUMS APPLICATED LDUE TO REQUIRENTS FOR APPERTICATE OFTICE HOURIS INSPECTIONS.

L STE VISIT MOVING FULL WORKING KNOWLEDGE OF BUILDING SITE AND ANY EXISTING CONDITIONS, WHICH MAY AFFECT THE WORK. VISIT SITE PRIOR TO TENDER SUBMISSION.

5 <u>OUTRACT DRIVINGS</u> CONTRACT DRIVINGS FOR ELECTRCAL WORK ARE IN PART DIAGRAMMATIC. INTERDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANCEMENT OF EQUIPMENT, OXIGNIT AND OUTERS BEFORE INSTALLATION UNRERY THE PHYSICAL LOCATION OF ALL ELECTRCAL EQUIPMENT TIMAL LOTHER INSTALLATIONS AND REVERT ANY ORSENTIONS OR INTERPENSES. IN DETINA AVIRANT SERVICE AND ALLER TO MARE THE VERPERICATION MULL EDCOMENDE DIAGNOSS INSTALES AND OTHER WORK. THE DRIVINGS IN DETINA AVIRANT SERVICE AND AND AND LOTHER DIA THE VERPERICATION MULL EDCOMENDE DIAGNOSS INSTALES AND OTHER WORK. THE DRIVINGS INCLUES THE GENERAL LOCATION AND FOULTS TO BE FOLLOWER: BUT DO NOT SERVIN ALL CONDITION AND REVENUES INSTALES AND OTHER WORK. THE DRIVINGS INCLUES THE GENERAL LOCATION AND FOULTS TO BE FOLLOWER: BUT DO NOT SERVIN ALL CONDITION AND REVENUES ALL THE STRUCTURAL, MICHINELON, DEVINS BEING DRIVING BOR DATAST TO BE FOLLOWER: BUT DO NOT SERVIN ALL CONDITION AND REVENUES STRUCTURAL, MICHINELON, DEVINS BEING DRIVING BORGENERAL SERVICES DISTINGTIONES ALL DRIVING IN STRUCTURAL, MICHINELON, DEVINS BEING DRIVING BORGENERALES DRIVENSIONS TO THE ATTENTION OF THE CONSULTING DURING STRUCTURAL, MICHINELON, DEVINS BEING DRIVING BORGENAUES DRI OR OMISSIONS TO THE ATTENTION OF THE CONSULTING DURING THE DEVINE PHYSICAL DRIVING BORGEN DRIVEN THE DRIVING DRIVING BORGENERAL DRIVING DRIVENTIAL DRIVING DRIVING DRIVENT DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVENT DRIVING DRIVING DRIVING DRIVENT DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVENT DRIVING DRIVING DRIVING DRIVENT DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVENT DRIVING DRIVING DRIVENT DRIVING DRIVING DRIVENT DRIVENT DRIVING DRIVENT DRIVING DRIVING DRIVING DRIVING DRIVING DRIVING DRIVENT DRIVING DRIVENT DRIVING DRIVENT DRIVING DRIVENT DRIVING DRIVING DRIVING DRIVING DRIVING DRIVENT DRIVING DRIVENT DRIVING DRIVING DRIVENT DRIVING DRIVENT DRIVENT DRIVING DRIVENT D CONTRACT DRAWINGS

EXISTING SERVICES

DEMOLITION

- VEXIMUUM 1.1. REFER TO DEMOLTION NOTES ON DRAWINGS. REINDER SAFE THE INSTALLATIONS AT LOCATIONS FROM WHICH THE EXISTING INSTALLATIONS AND EQUIPMENT ING BEEIN REINVER JAS PART OF THIS WORK. 2.2. REINVER JAS PLANT OF THIS WORK. 2.3. REINVER JAS LOSSING EQUIPMENT AND MATERIALS, WHICH BECOMES OBSOLETE AS A RESULT OF THIS WORK EXCEPT WHERE SPECIFICALLY MOTED OTHERWISE.
- 7.3. THE CONTRACTOR MUST SUBMIT WRITTEN PROOF, EVIDENCE OR ACKNOWLEDGEMENT THAT THE DISPOSAL OF ALL MATERIALS WAS DONE IN ACCORDANCE WITH ALL CURRENT DISPOSAL REQUIREMENTS AND HAS BEEN DISPOSED OF AT A PROPER AND LICENSED FACILITY. <u>A RECEPT FROM THE DISPOSAL FACILITY</u> INVENTOR CONTRACTOR INFORMATION INFORMATION IN THE DISPOSAL FACILITY.

- STOP DRAWINGS
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- 10. <u>OPERATION AND MAINTENANCE MANUAL</u> 10.1. SUBMIT A DRAFT ELECTRONIC FORMAT (PDF) COPY OF OPERATION AND MAINTENANCE MANUAL TO ENGINEER FOR APPROVAL UPON ACCEPTANCE FORM ENGINEER CONTRACTOR SHALL REVOIDE OVE ELECTRONIC COPY AND ONE HARD COPY TO THE OWNER.
- O&M MANUAL SHALL INCLUDE BUT NOT BE LIMITED TO;

- NULU, SHULI KILUDE BUTHOTE ELIMITED TO. TILE PAGE LITTER OW WARRANTY FROM DATE OF SUBSTRATTAL COMPLETION SHOP DRWINGS ON TIMPED CONSULTINTS ACCEPTED YREVEWEDT OPERATION AND MARTENANCE DATA SHULL FOR ALL ELECTROLE. SYSTEMS AND OR DEWICES SUFFICIENTLY DETAILED WITH RESPECT TO DESIGN ELEMENTS, OPERATIONAL PROCEDURES, TEORING, DATA CONSTRUCTION FRATURES, COMPONENT FUNCTIONS AND MARTENANCE REF BESTRATIO TORINIT EFFECTIVE STATT OF OPERATIONAL MARTENANCE, REPRIN, MODIFICINE, XETERIONA DE DOMOGIO OF ANY FORTON ALL TISTING AND OMAGENOME SENSI TO STATLE OPERATIONAL MARTENERS/PERATED REF SPECTOBLES FOR DE DEVENSION FRATURES CONTROL FOR TO PROTECTIVE ALL TISTING AND OMAGENOME SENSI TO STATLE OPERATIONAL MARTENERS/PERATED REFERE FOR EMPERATION FRATURES, CONTROL FOR TO PROTECTIVE ALL TISTING AND OMAGENOMES FOR IST. STATLE OPERATIONAL MARTENERS/PERATED REFERE FOR EMPERATIONAL FOR THE FORMER ALL TISTING AND OMAGENOMES FOR IST. STATLE OPERATIONAL MARTENERS/PERATEMES FOR FOR DEVENTION TAULT IN ADJUSTICE
- UF ITE STITUM. ALL TESTING NOC COMMISSIONING RESULTS, START-UP, SHUT DOWN AND EMERGENCY PROCEDURES FOR EQUIPMENT INSTALLED AND CERTIFICATE OF ACCEPTIANCE BY AUTHORITIES HAVING JURSDICTION PARPORPARIE WINNE OMGANIAS, SOLEMATES, ELEVATORS, MOUNTING REQUIREMENTS, AS IT PERTINS TO ACAD SYSTEM AND/OR DEVICE EQUIPMENT OFERATOR, INCLUE MAREPLATE INFORMATION MARE, SZE, CAPACITY AND SERUL IMMEER ESA INSTRCTION REPORTS

- INSPECTION REPORTS REGENCY LIGHTING TEST AND FUNCTIONALITY LETTER ISD MINUTE RUNTIME TEST AS PER ORCI
- 10.2 FAILURE TO SUBMIT MANUALS SPECIFIED, WILL INCUR ADDITIONAL 10% HOLDBACK AGAINST PROGRESS PAYMENTS. SUBMIT ONE PDF ELECTRONIC COPY WITHIN FOUR (4) WEEKS OF ACCEPTANCE OF DRAFT MANUALS TO OWNER.

11. AS BULT DRAWINGS 11. BECTRICH, CONTRACTOR SHALL MARX ALL CHANGES AS WORK PROGRESSES AND AS CHANGES COCUR ON A RECORD SET OF CONTRACT DOCUMENTS CHANGES SHALL REPRESENT WORK AS ACTUALLY INSTALLED. USE DIFFERENT COCURS WINTERPROOF IN YOR EACH SERVICE, DRAWING SET SHALL BE CHANGES SHALL REPRESENT WORK AS ACTUALLY INSTALLED. USE DIFFERENT COCURS WINTERPROOF IN YOR EACH SERVICE, DRAWING SET SHALL BE DRAWINGS. THIS DRAWING HAS BEEN REVISED TO SHOW ILLEDTICAL SYSTEM INSTALLED. WALLED SIGNITURE OF CONTRACTOR AND DATE 11. SUBMIT EXCENSION CONT OF DRAWINGS EN REVISED TO SHOW ILLEDTICAL SYSTEM INSTALLED. WALLED SIGNITURE OF CONTRACTOR AND DATE 12. SUBMIT EXCENSION CONT OF DRAWINGS FOR ARYONG, MAN DAME CONRECTORS & DRAWING SIGNETIS TO LOWARTED NOT DAME TED SOFT COPY AS-BULT DRAWINGS TO ENGINEER, INCLUDE A COLORADE STOT COPY OF ASBULTS WITH OPERATING AND MARTENANCE MANUALS.

12 <u>UNMODES AND INVERSITIES AND INVERSITIES AND INVERSITIES AND UNREATIES AND UNREA</u>

3. PROTECTION

• TOUEDUAD NAME PRECAUTORS TO PROTECT THE OCCUPANTS AND PERSONNEL FROM INJURY DUE TO LIVE CIRCUITS. PROTECT ALL FINISHED AND UNFINISHED WORK FROM NAMEGE DUE TO CARRYINS OUT OF THIS WORK. ALSO PROVIDE FALL DUST PROTECTION DURING CONSTRUCTION. KEEP EQUIPMENT DRY AND CLEAN AT ALL TIMES. PROTECT ALSO ALL SISTING SERVICES TO BEMININ IN AN EXAMOND THE AREAS OF REMOVATION.

N. <u>OUTING AND PATCHING</u> ARRANGE FOR THE GENERAL CONTRACTOR TO DO ALL OUTINGCORE DRILING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATIONS. BEFORE CARRYING OUT ANY CUTTING, GOINT AN INTERN AVAROUX, FROM THE CONNER. ALL DRYWALL PATCHING SHALL BE MUDDED, SANDED AND PRIME PAINTED REAVY FOR FINISHED PAINT.

15. CLEAN UP AND REPAIR 15. CLEAN UP AND REPAIR 15. CARRY OUT THE REQUIRED CLEANUP AT THE END OF EACH DAY IN WORK AREAS, REMOVE ALL TOOLS, EQUIPMENT, LADDERS AND EMPTY CARDBOARD BOXES ETC. AND LEAVE THE PREMISES BROOM CLEAN.

15.2. THE ELECTRICAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE TO WALLS, FLOORS, CEILINGS, WOODWORK, FINISHES, ETC. CAUSED DIRECTLY OR INDIRECTLY AS A RESULT OF THIS WORK.

6. <u>CONDUT</u> INVERSISHUE EIN CONDUT UNESS SPECIFICALLY INDICATED OTHERWISE. INSTALL ENT THROUGHOUT EXCEPT WHERE SPECIFIED OTHERWISE. CONCEAL CONDUTSKACKAWNS IN ALL REAS EXCEPT IN MECHANICA. AND ELCITICAL ROOKS OR INHERE SPECIFICALLY INDICATED OTHERWISE. WHERE WINNEN AND OURD' CAN OTTE SCORECURSTON DI ANTIMISE DARA IN WINNEN AN SURVEY ENTA INCLAMY STREAM DOULT TO INHERINGE VUORU DAVID AUTO PARALLE ID BILLING, LINES INSTALL POLYMOPHERE, INNIMIA 180 KG. PALL STREAMT HALL CONST IN ADVIDUTS INFOLMENT DI ALLING, INSTALL POLYMOPHERE, INNIMIA 180 KG. PALL STREAMT HALL CONST IN ADVIDUTS INFOLMENT DI ALLING DI ANDIANTI AND DI ALTINI DI ANTI DI ALTINI DI ANTI DI ALTINI DI ANTI DI ALTINI DI ALTINI

1.1. <u>WINK</u>, PTER NW COPPER, BOV, XUPE INSULATION. SOLID CONDUCTORS TO 1910 ANIG, STRANED CONDUCTORS IN AND LARGER. TYPE RW 90 COPPER, 10007, XUPE INSULATION FOR FEEDERS AT 800 OPERATING VICTAES IMMANUE BRANCH GROUT CONDUCTORS SHALLE B 122 ANIS DISCRETTOR 123 VICT CONTROL CONTROL CREATES. INSULATION FOR FEEDERS AT 800 OPERATING VICTAES, IMMANUE BRANCH GROUT CONDUCTORS SHALLE B 122 ANIS DISCRETTOR 123 VICT CONTROL CREATES. DUILET 103 XI HEAL ARAYNE BANG OF THE BRANCH GROUT BREAKER ARED CURRENT. TWIST CAR RESSARE TYPE INRE CONNECTIONS FOR HIM AND GROUT BREAKER ARED CURRENT. SHALT THE YOR SHALLE BHANG WING THE BRANCH GROUT BREAKER ARED CURRENT. TWIST CAR RESSARE TYPE INRE CONNECTIONS FOR HIM AND GROUT DISCRETARIAS AND SHALLE SHALL B XI AND HIM AND THE AND THEAN THE AND THE AND

- 18. FASTENING AND SUPPORTS 18.1. USE LEAD ANCHORS TO SECURE EQUIPMENT TO SOLID MASONRY, THE AND PLASTER SURFACES. USE EXPANIDABLE INSERTS TO SECURE EQUIPMENT TO POURE DOKORTET. USE TOGGLE BOLTS TO SECURE EQUIPMENT TO HOLLOW MASONRY WALLS OR SUSPENDED CELINGS. POINTED CONTRETE DUE TOUBLE DUE TO DECOME DECOMINATION IN TOTALISMO INTERNAL DUE TOUBLE DUE TOUBLE
- 9. GROUNDING

UNUME GROND ALL EQUIPMENT WITH APPROVED FITTINGS AND GROUND CONDUCTORS OF AMPLE CAPACITY AS REQUIRED BY GROUNDING TO ONTARIO ELECTRICU, SAFETY CODE, CAS STANARIO C21. INSTALL COMPLETE PERMANENT, CONTINUOUS SYSTEM AND CROLIT, EQUIPMENT, GROUNDING SYSTEMS INCLUNDE ELECTRICUS CONDUCTORS, CONSCIENCES, AS INDICATED TO COMPONIT OF REQUIRENTS OF CONSULTANT, ADU LOCA, AUTHORITY HAVING AURGICITION OF RESTALLATION GROUND WIRES SHALL EE INSTALLED FOR ALL BRANCH CIRCUITS AND MOTOR CIRCUITS BY RUNNING THE GROUND WISE IN E SAME CONDUCT SOF CLOSURY FOR BRANCH CIRCUITS USIN ARED NEUTRALS. INSTALL ONE GROUND WIRE PER NEUTRA

- 11.1. YAL WANCH CHCUT UNCUT SUMME SWHEED NEUTHAL, NOTAL OBE GOUDIN VIER PER NEUTHAL. 12.1. FOR GROUTE VIEWIN RUNDURAL HEAR'S FOR EARLOGUENUE WEE RE ROMUNE FER GROUTE 13.1. MINNUM SIZE OF GROUND WIRE TO BE #12.NIG COMPER. INSTALL CONTINUOUS GROUNDING CONDUCTORS THROUGH ALL CONDUTSRACEININ'S FOR YSTERIES OFENANG. ABOYE BY VCLTS (DO NOT USE CONDUT AS GROUND), BOND AT EACH BOX AND DEVICE. GROUND ALL METALLIC RACEININ'S FOR STERIES, E FER ANAL REC.

- N <u>DERFORMED FAILUNES</u> NERE CONDUCTOR SANLE CONDUCTOR CARLES OR CARLE TAN'S PASS TAROUCH FRE RATED R.COR SLARS FRE RATED CELLINGS OR FRE RATED WALLS, SEAL OFENING AROUND SANLE TO MANTIAN FRE SEPARATION USING 3M "FRE BARRER SEALANT OF 25MB+" OR APPROVED U.C. RATED EQUIVALENT.
- NTFY ALL ELECTRICAL EQUIPMENT USING SUITABLY SIZED LAMACOID NAMEPLATES. INCLUDING BUT NOT LIMITED TO SWITCHEDARDS, SPLITTER TROUGHS, NELEDARDS, SCHATERS, CONTACTORS, DISCONNECT SWITCHES, TIMECLOCOS AND TRANSFORMERS, LAMACOD NAMEPLATES TO BE 2 MU THICK WITH BLACK ISTO FACE AND WITH CODES SCHEW FASTEN GROP RIVET TO EQUIPMENT

WENT INDELIBLE IDENTIFYING MARKINGS FITHER NUMBERED OR COLOURED PLASTIC TAPES. ON BOTH ENDS OF PHASE CONNECTORS OF

EEDERS AND BRANCH CIRCUIT WIRING. COLOUR CODE: TO CSA C22

23. CONDUIT AND CABLE IDENTIFICATION C SHEATHED CABLES. FOR BOXES, IDENTIFY THE COVER AS WELL AS INSIDE EA NTIFICATION SYSTEM WITH THE CONSULTANT.

24. LOCATION OF LUMINAURE CHANGE LOCATION OF LUMINAURE AT NO EXTRA COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3000 MM, AND INFORMATION IS GIVEN BEFORE INSTALIATION

- 25. MATERIALS AND EQUIPMENT EQUIPMENT AND MATERIAL SUPPLIED AS PART OF THE ELECTRICAL WORK SHALL BE NEW AND CERTIFIED TO APPLICABLE CSA STANDARDS FOR THE APPLICATION. 6. MOUNTING HEIGHTS
- UNUMENDA VISION OF EQUINARIEST IS FROM INVESTIGATION TO CONTRELINE OF EQUINARIEST UNLESS SPECIFIED OR NOCHED ON OFFENSIONE. IF MOUTINES VISION OF EQUINARIEST IS NOT NOCHED ON EVENT WITH THE SEARCHESE BEFORE PROCEEDING WITH INSTALLATORS IN INCLATED ON AROUTECTURAL CONTRACT DOLORINTS SUPERSEEM MOUNTING HEARTS INICIDATE BELOW. THIS CONTRACTOR SHALL REVER WITH LELATEST ADOITING OF THE CITY OF OTHAN ACCSSIBLE IN "DESIGN STAMAMD AND REPORTS AND DISCREMENT TO ARRIVETEEMBER PROFT TO EQUINARIEST INSTALL ELECTRICAL EQUINARIEST STAMAMD AND REPORTS AND DISCREMENT TO ARRIVETEEMBER PROFT TO EDUCATION INSTALL ELECTRICAL EQUINARIEST AT THE FOLLOWING HEARTS ADOVE FINARIES FLOOR (VFF). OVER COUNTER (ICC) OR UNDER COUNTER (ICC) UNLESS NOCHED DESIGNED AND ALLE MOUNTED TO MATCH ENSITING SWITCH HEARTS ADORE. 21.1. ENTITICAES SHALL ER MOUNTED TO MATCH ENSITING SWITCH HEARTS ADORE. 21.2. ELECTRICAL ROLGAN IN CONVERS SPIRUED EQUIPMENT TO ECONORMITE WITH OWNER OR EQUIPMENT SUPPLIER.

27. LUMINAIRES

UNDERSTORMENT FOR THE STORMET WITH LANGE OR LEED AS INCLATED IN LOWING SOMELLE ALL INTURES COMPLETE WITH ADVECTS THE ACCOMPLET WITH ADVECTS THE ACCOMPLET WITH ADVECTS THE ACCOMPLET WITH ADVECTS THE ACCOMPLET WITH ADVECTS AND ACCOMPLET WI

- THE BLOT SIGNA AND IMPRESENT LISTING 31. BUT SIGNA POINT EXCLASSING CENTRED. LED TYPE EXIT SIGNS IN ONE PRECE EXTRUCED ALIAINUM HOUSING. FINISH TO BE CONFIRMED WITH THE 34. BUT SIGNA SHALL BE CRAVERAGE CENTRED. LED TYPE EXIT SIGNS IN ONE PRECE EXTRUCED ALIAINUM HOUSING. FINISH TO BE CONFIRMED WITH THE ARCHIETE THEORE ORDERING. ALLOW FOR WHITE BAKED EFXIAT FINISH. SIRELE FACE OR DOLLAR FACE AND DIRECTIONAL OFENDING. A REQUIRED AND AS NOTATED OF DOMINISMS: CELLING, MALL ON THE WALL BOOTH FAST ADDRED AND DIRECTIONAL OPENDING. STREMENT AND DIRECTION OF DIRECTION AND AND ADDRED AND DIRECTIONAL OPENDING. STREMENT LEDS TO PROVE EVEN LUMINORI. LEDS MIST THE LOGAL FLOW FILTH AL GURANTEE OF MISMING FOR THE TO LUMINARE SCHEDULE ON DRAWING FOR THRES AND DESCRIPTIONS. CERLING THE ADDRED AND DIRECTION RUMATES THE DIRECTION RUMATES THE DIRECTION RUMATES DIRECTION ADDRED ADDRED
- IN THIS AND A THE ADDRESS OF A STATE OF A ST

S INFORMULE 23 III. COMMERCIAL SPECIFICATION GRADE. 15A OR 20A. 120V A SITV, SINGLE POLE, SI WAY OR 4 WAY AS NOICATED. STANDARD OF ACCEPTANCE: HUBBELL CS 2010' AND EQUIVALENT PRODUCTS OF HUBBELL IN OTHER VICE TAGES AND CONFIGURATIONS. 2012. REFERET OLISITICA CONTROL SPECIFIC ORDER LIST ROL OF MORE MICE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2012. REFERENCE AND EXAMPLE AND A SITVE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2012. REFERENCE AND EXAMPLE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2013. REFERENCE AND EXAMPLE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND EXAMPLE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND EXAMPLE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND EXAMPLE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND EXAMPLE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND EXAMPLE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY. 2014. REFERENCE AND A SITVE SAM OF MORE MICENTICAL RECOVERY.

30. <u>COVERPLATES</u> WHITE FINISH TYPE 30I, MINIMUM 1MM THICK, WHITE SCREWS.

I DISCONNECT SWITCHES downed stitlers. D DITY disconcet switches, Eemac 1 in dry locations, eemac 3 in damp locations, quick-makequick-break mechanisms, visible blades, arc Cher Rob Switches Rated Bow. Mechanically interlocked Dover to prevent opening in "On" position, except by defat mechanism. On-op-H position Noticiton on Switche Duckosire Cover, provision for Provision for Macator Doversions, first preventioner Size As

- 22. <u>UDLOD VASE BEMARES</u> 23.1. BOLT ON MULCIES CASE CROLT BEAMERS OLICK MAKE, OLICK BEAM TYPE, FOR MANUL AND AUTOMITIC OPERATION WITH TEMPERATURE COMPENSITION FOR ACT AMBERT COMMANT PRI PREMARES WITH SINGLE HANDLE FOR MULTIPOLE APPLICATIONS MULLIDE CASE CIRCUIT BERMERE TO COPERATE MULTIPOLICE AND MULCIPACITY AND MACHETIC TRIPPING EXCESS TO PROVIDE INVERSE TIME CURRENT TRIPPING AND INSTANTANEOUS TRIPPING FOR SHORT CIRCUIT PROTECTION.

ING AND COMMISSIONING OF GENERAL ELECTRICAL INSTALLATIONS INNEPECT. TEST AND COMMISSION ALL EQUIPMENT MOI SYSTEMS PROVIDED UNDER THIS CONTRACT TO DEMONSTRATE AND VERITY CORRECT ORBADINAL EXECUTIV AND REPAIRS AT IND COST TO THE OWNER ANY FALLY TESUPINEMENT AND RECTIFY ANY FALLY OPENITONIC PROVIDE TO DEREGONICAL MEDIZER ALL RESTORMED TO APPROVAD. OF COMER ANY FALLY TESUPINEMENT AND RECTIFY ANY FALLY OPENITONIC PROVIDE TO DEREGONICAL MEDIZER ALL RESTORMED TO APPROVAD. OF COMER ANY FALLY TESUPINEMENT AND RECTIFY ANY FALLY OPENITONIC PROVIDENT TO SITE CONDITIONE RESTORMED TO APPROVAD. OF CONSILITATIV AND EXECUTIVO DER MEDIZIATIONAL DERECTIFICATIONE TEST AND COMMISSIONEL DERING AND RESTORMED TO SITE AND COMMISSIONEL DERING AND TO APPROVAD. OF CONSILITATIV AND LOLALINGTONY INVINOL BUBBICITION OF RESTANCES. TEST AND COMPANISONAL TO SITE CONDITIONE AND TO APPROVAD. OF CONSILITATIVA DEL ALL'EDITIONIC APPRILADIA DE MEDIZIATIVA DE ALL'EDITIONIC DE MEDIZIATI DE ALL'EDITIONICO PROVIDE ALL'EDITIONIC DE MEDIZIANI DE ALL'EDITIONICI DE MEDIZIANI DE ALL'EDITIONICI DI APPRILADIA DI A

4. SEISMIC RESTRAINT

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- ROWDE LIQUE-TIGHT FITTINGS AT ALL CONDUIT AND CABLE TERMINATIONS IN A WET LOCATION ENVIRONMENT. ALL CONDUITS AND CABLES SERVING EQUIPMENT ATEE NETWA STANLY SHALL BE PROVIDED WITH LIQUE-TIGHT FITTINGS
- 36 ELECTRIC VEHICLE OWRGER: 36. ALL NEW DEVICES SHULL BE OF THE SAME MANUFACTURER. ANY ACCEPTANCE OF EQUIVALENT OR ALTERNATE PRODUCTS SHALL ONLY BE CONFIRMED BY ISSUMCE OF ADDRIDUM. ISSUMCE OF AUDIENTUM. S22. DESCRIPTION DUAL LEVEL 2 COMPRGING STATIONS THAT ARE CAPABLE OF POWERING TWO ELECTRC VEHICLES SMULTANEOUSLY, DELIVERING UP TO 7.2XW OF POWER TO EACH ONE, AND THEY ARE EQUIPPED WITH AN AUTOMATIC CABLE MANAGEMENT SYSTEM THAT RETRACTS THE CABLES AFTER EACH USE. STATION EOUPPED WITH AS OSCILLAR ACTIEVENT VOID CONNECT TO UNITS INS VOINTY.

H RFID READER, CONNECTOR MODULE WITH STRAIGHT CABLE, LOCKING MECHANISM AN

- MANUFACTURER: FLO BASIS OF DESIGN: SMARTTWO-BSR ALLMINI IM CASTING: 2 X SMARTTWO
- . ID NEMA 30
- 355.
 ALUMINAN OLSTING: 2.X SMITTINO, TEMA 37

 366.
 OVERAGE CONCTOR: 2.X SMITTINO, TEMA 37

 367.
 OVERAGE CONCTOR: 2.X SMITTINO, TEMA 37

 367.
 OVERAGE CONCTOR: 2.X SMITTINO, TEMA 28

 367.
 OVERAGE CONCTOR: 2.X SMITTINO, TEMA 28

 368.
 OVERTO: CEREMANTINO, TEMA 28

 368.
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 369.
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 360.
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 OVERTO: CEREMANTINO, TEMA 28

CATALORD IS SAV-BIDBINF-BLOC DEGEMPTION MERTER LOBISSIE DUI ALCHARGING STATION MOUNTING BASE WITH CABLE RETRACTION SYSTEM AND GATEWAY - FLO-BLOE RROVEE OWERING STATION WITH THE FOLLOWING BETWICE OFFICIAL: STIE SURVEY PRIOR CIT DIE CHARGING STATURION DISTALLITION LODAL COMPLICATION SERVICE FOR ALL THE STATIONS AT A STIE CLORAL MANGELEBRUIS BERVICE FOR ONE STATION FOR 11 YER

REFER TO DRAWINGS FOR COMPONENTS TO BE MOUNTED IN ENCLOSURE. ELECTRICAL CONTRACTOR SHALL INSTALL ALL COMPONENTS AND PROVIDE ALL NECESSARY ACCESSORIES TO MAKE CONNECTIONS.

LANDS
THE EXTERNOL BULLING CODE (CURRENT).
INT.C FORM 30% CONCRETE.
INT.C FORM 30% CONTRACTOR LAD ASPARLING CONCRETE.
INT.C FORM 30% CONTRACTOR LAD ASPARLING FOR HOT LAD ASPARLING CONCRETE.
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STANDARDS IN THE MUNICIPALITY HAINING JURISIDITION ALL CODES MO STANDARDS REFERRED TO HEREIN SHALL BE CURRENT EDITIONS, AS AMENDED TO DATE. WHERE TWO OR MORE SPECIFIED STANDARDS ARE AT VIRAINCE MOST CONSERVATIVE PROVISION SHALL APPLY.

ETHODS OF TEST FOR CONCRETE

IN <u>MEMA THE REPLICATION</u> 31. LEAN THE IN GALVANCED STEEL ELECTRICAL ENCLOSURE, ONE OF ISCERLP SERIES OR APPROVED ALTERNATE. ENCLOSURE SHALL BE COMPLETE WITH THE FOLLOWING FARMERS.

- 6.13. HUMIDITY: UP TO 95 % (NON-C
- 36.14. CARD READER: ISO 14443 A/B, ISO 15693, NFC
- 36.15. COMMUNICATION INTERFACE: ZIGBEE IEEE 802.15.4 MESHED NETWORK (MASTER AND AUXILIARY UNIT) 36.16. NETWORKING CELLULAR: 3G (MASTER UNIT)
- FOR CANADA AND UNITED STAT

THE FOLLOWING FEATURES: 38.1.1. MINIMUM DIMENSIONS OF 24" X 20" X 10" 38.1.2. CSA APPROVED 38.1.3. 0.60" AND 0.075" THICK GALVANIZED STEEL 38.1.4. BLACK QUARTER TURN LATAWITH PADLOC 38.1.5. CONCEALED HINGES

38.1.6. OIL AND WATER RESISTANT GASKET 38.1.7. FLANGE TROUGH COLLAR AROUND ALL SIDES OF DOOR OPENING

38.1.1. FOWNE INSUED ROUTED FOR MULTING STUDIES OF DURING STUDIES AND STUDIES PROVIDED FOR MULTING STUDIES. SUBJECT AND STUDIES AND STUDIES AND STUDIES AND STUDIES AND AND STUDIES AND AND STUDIES AND AND STUDIES AND STUDIE

CHARGING STATION MOUNTING BASE: CATALOG NO.: S2-V4-SBDRM-FL-BLCE

7. PANELBOARDS

35. EXCAVATION AND BACKFILLING

- CSA CERTIFIED FOR CANADA AND UNITED STATES COMPLIES WITH UL 2594, UL 2231-1, UL 2231-2 8.23. EMC COMPLIANCE: USA FCC 47 CFR 15, CLASS A 23.2. CAN ICES-3 (A) / NMB-3 (A) CHARGING STATION HEADS: CHARGING STATION HEADS: CATALOG NO.: S2-V4-TETE-FL-BLCE DESCRIPTION: SMARTTWO 208-240 V J1772 CONNECTOR - FLO - BLCE

2 ROUND EDGES. INCLUDING EDGES OF JOINTS. WITH 3/8" RADIUS EDGING TOO

EXCAVATION TO A GREATER EXTENT THAN SHOWN ON DRAWINGS WITHOUT BOARD AUTHORIZATION WILL NOT BE PAID FOR AS ADDITIONAL WORK. BACKFILLING EXCESS EXCAVATION WITH I'R INDER PAIWING COMPACTED TO SKIL STAINLED DEVENTY

ED EXCAVITION ED EXCAVITION EXCAVITEA LI TOPSOL IND FILL OF AS REQUIRED TO INSTALL SPECIFIED THIODIESS OF GRANLLAR FILLS. IF, IN THE OWNER OF THE TESTING COMPANY OR THE BOARD, URASITSFACTORY BEARING SURFACES EXIST AT LEVELS NOTE IN 1, EXCAVATE TO SUITARE SURFACE VOIR OBARDS SUITARENTATION. ADDITIONAL EXCAVITION AND BOARDLI REQUIRED IN 2 WILL BE CLASSED AS EXTRA WORK TO THE CONTRACT AND COST DETERMINED ON BASIS OF UNIT PROCESS DOITED BY TURKER FORM.

NINYA UNI PRIOR TO SUBMISSION OF TENERE, EXAMINE SITE AND NOTE ALL CHARACTERISTICS AND FEATURES AFFECTING THE WORK. ENGINE IN EXAMINATION THAT ALL POSSIBLE FACTORS CONCERNING THE WORK ARE INVESTIGATED, AND THAT THE FOLLOWING ARE KNOWN I PARTICULAR

T ADJACENT PROPERTY AND SERVICES AGAINST DAMAGE WHICH MIGHT OCCUR FROM WORK. DO NOT INTERFERE WITH USE OF ADJACENT PROTECT ADJACENT PROPERTY AND SERVICES ADJACET DAMAGE WIN-IN MUNIT VOLAN FULL MANNEL ADJACET PROFILES. REAK AND BUILDON. THE STATUS AND ADJACET ADJACET DAMAGE AND ADJACET DAMAGE ADJACET DAMAGE AND ADJACET DAMAGE AND ADJACET DAMAGE ADJACET DA ADJACET DAMAGE ADJACET ADJACE

PROTECTION WHEN SO DRESCTEDED THE BOARD REPLACE ANY DAVAGED TREES TO SATISFACTION OF THE BOARD. SUPPORT EXISTING MUKAS AND ROADS REPRIRED TO VANS OF EXISTING TO SUPPORT EXISTING MUKAS AND LOADS DEPOSITED BY CONSTRUCTION FORCES TRAVELLING ON OR UNINE EXISTING MORSA AND MUKAS USING THE CONSTRUCTION FORCID. PROVIDE HORMING AND MUKAS LONGING THE CONSTRUCTION FORCID. PROVIDE HORMING AND MUKAS LONGING THE CONSTRUCTION FORCID. THE GROUND AT TAXING AND MUKAS LONGING THE CONSTRUCTION FORCES TRAVELLING ON THE GROUND AT TAXING AND CA SAXING DAYA PHALBBERS SHALL ESCUEDED TO THE OF OF CACH POST AND EXCELED THE TOPOSTS DAVED EXCELED UTIM TRADMA I CALIFICATION FOR THE MUKAS THE RECORD SHALL ES ET BACK 1 DAI FORCES TRAVELLING ON THE GROUND AT TAXING AND CALIFICATION FOR THE DUBING THE RECORD FOR THE FORCE SHALL ES ET BACK 1 DAI FORCE THE FORCE THE INFORMATION OF A DAVID OF ON THE PLOS THE TRAVEN TO FORCE SHALL ES ET BACK 1 DAI FORCE THE TRAVE OF THE TRAVEN AND THE AND AND THE TRAVEN TO FORCE SHALL ES ET BACK 1 DAI FORCE THE EDUCE OF THE TREND THE TRAVEN AND THE BANK FORCE OF THE DUDING THAN THE TRAVEN TO FORCE SHALL ES ET BACK 1 DAI FORCE THE FORCE OF THE TREND TO HAVE SEE THAN THE AND THE AND THE TRAVEN TO FORCE SHALL ES ET BACK 1 DAI FORCE THE FORCE OF THE TREND TO HAVE SEE THAN THE AND THE AND THE TRAVEN TO FORCE THAN THE FORCE OF THE TREND THE TRAVEN TO THE TRAVE TO THE TRAVEN TO THE TRAVEN TO THE TRAVE TO THE TRAVE TO THE TRAVE TO THE TRAVE TO THE TRAVEN TO THE TRAVE TO THE TRAVE TO THE TRAVEN TO THE

BEFORE COMMENCING WORK, ESTABLISH LOCATION AND EXTENT OF UNDERGROUND UTILITY LINES IN AREA OF EXCAVATION. NOTIFY BOARD OF FINDINGS.

FINDINGS. INTERVIEW, LOWID, LOCAL IMORO AND GAS COMPANIES AND MUNICIPAL AUTHORITES OF WORK AND CO-OPERATE WITH THEM IN LOCATION AND INTERVIEW, LOCATIONE SERVICES. AREAS OF EDUCATIONE SERVICES. MERCENDE LOCATIONE OF INVECTOR-LAND SERVICE AND UNDERGROUND UTILITY LINES. MARE COOLD DAMAGE TO SISTING UTILITY LINES SEXULTING FORM WORK.

ARNLS GANULAR FILL GANULAR VIAID 5: TO ONTARIO MINISTRY OF TRANSPORTATION AND COMMUNICATIONS FORM 1016-MARCH 1975, FOR CLASS 'S AND 'E AGGREGATE GANULAR C: TO ONTARIO MINISTRY OF TRANSPORTATION AND COMMUNICATIONS FORM 1016-MARCH 1975, FOR CLASS 'C AGGREGATE OR PIT RIN OF GRUNNED GANVEL ACCEPTIALE TO THE REPETION ACENCY.

EPARTION STRE AR LODGE, NET, AND DRAMEN WITHERAL NOLLING AL ILL COMPLETE/ FROM INDER AREAS TO BE PARED OR BURPACED AND FROM AREAS DOWN ON THE DRAMEN STREAM OF THE AND AND ALL STREAM OF THE AND ALL STREAM OF THE AND ALL STREAM OF THE AND ALL DOWN ON THE DRAMMONS' ROLL SUBJECT HORD (DUAL') CORRECT AN INDER OF TAXING AND ALL STREAM OF THE ALL STREAM OF THE AND ALL STREAM OF THE AND ALL STREAM OF THE ALL STREAM

VALUM ALL WORK UNDER THIS CONTRACT MUST BE CARRIED OUT IN COMPLIANCE WITH THE CONDITIONS AND REGULATIONS OF THE CONSTRUCTION SAFETY ACT 1973 AND AMENINAMENTS THERETO ALL INFORM UNDER INS JURION INIS I DE UMPREU DU IN COMPLANE, IMI IN THE UNRITINS MUR DEGUATIONS OF THE UNRITIONATION STATE ALL INFORM DERIVINE ALL LOSS EDITURIES DOLS AND DREAMC MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMC MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE MATERIAL. EXCANTE OF ALL LOSS EDITURIES DOLS MO DREAMCE DOLS DA DREAMCE DREAMCE DREAMSE. EXCANTE OF ALL LOSS EN ALLONGES EDITURIES DOLS DOLS DREAMCE DREAMCE DREAMSE. EXCANTE DE ALLOSS EN ALLONGES EDITURIES DOLS DE DREAMCE DE PACED. EXCANTE DREAMCE DOLANTES DREAMCES ANIES INFORMATIONE DE PACED.

SUMPALES BEFORE APPROVAL.

BEEN CARRIED OUT, REMOVE FILL AND RE-COMPACT. PLUG UNISSED DRAMS, SEWERS, UNISCERRORDAND PPING, NID FELD TILE ETC., WHICH MAY BE ENCOUNTERED DURING EXCANATON BLOCFILL TO ES GRANULAR "C" DO NOT BUTTENL COMMENCE GRANGE CR OTHER FOREIGN MATTER TOR FILL COMMENCE FILCING GRANULAR "C" ENCOTLL IMMEDIATELY AFTER STRIPPING OPERATIONS ARE COMPLETED AND SUB-GRACE APPROVED BY THE BOARD.

XXXXVITANA BAB BACKILL FOR SERVESE

E VAMANE DRAVIDES NOT STIT CLOATE SERVICES. REPORT ANY DIFFICULTES OR DISCREPANCIES TO THE BOARD.

E VAMANE RAVINGS MOST STIT CLOATE SERVICES. REPORT ANY DIFFICULTES OR DISCREPANCIES TO THE DAVED.

EXAMINE TO REVINUES TO PROVIDE CLASS. STI BECOMA AS SECURIDE IN THE HANDBOOK "RECOMMENDED PRACTICE FOR SELECTION AND
INSTALLATION CONCRETE THE VACINGS CONCRETE THE XASOCIATION OF OXITINO.

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I TENCH WORTH LAND TO THOSE THE OXITISED CAMARTER OF PER UMMUNIX 2-7).

I LEVEL BOTTO OF TERCH. SEDUCE TO ANTEN THE ELEVANTIONE IN AL RECOVERED AS RE

WHERE FILL WILL BE BENATH ASPHALT PAVEMENTS OR CONCRETE WALKS, USE GRANULAR "C" FILL AND PLACE AND COMPACT IN ACCORDANCE WITH SECTION 23 200016

1.5 ROUGH GRADING .1. CUT OR FILL THE SITE AREA TO EXTENT REQUIRED AND TO LEVELS BELOW FINISH ELEVATIONS WHICH WILL ALLOW FOR SPECIFED SURFACE

Construction of the standard of the standar

SUDURE 1. SOD SHALL BE 100% MXED KENTUCKY BLLEGRASS MURSERY SOD, TO CHTA GUIDE SPEC. 1978, SECTION 17, TWO (2) YEARS OLD FROM THE TIME OF ORGANUL SEEDING, 28 KULL MODIE) AND FREE FROM STOKES, BURING OK HARE SPECTS. THE SOD SHALL BE GREEN AND FREM IMEN DELIVERED AND SHALL KID ER BINTIETO TO OT CHI DEGREE LATING. 2. GRASS TO BE MONED TO A HEGINT OF 1% MINIMUM BEFORE SOD IS CUT. THICHNESS OF THE SOD FREM OF THE SOD SHALL BOT OR LESS THAN 3* SOD SHALL BOT IN IMECSA FAMORIZANEL 1 2 KWRS SUDARED AND RULLED FOR SHIPMENT.

a) no sub-nk2, sub, in misuri withen GRASS INS BEERI OUT TO A HIELIOF OF 1% A SOCIOD APRCAS INVEEDEN UT AN ANIMAIN OF TWO D JINE MES. ALL SOO TO HAVE INTLO MIESH REMAYINED LUMINE OF SOOR POLLS. SOCIODE APRCAS ARE TO BE FREE OF VIESUE OF CHANCULA. VERS IN ROHBITED. SOCIODE APRCAS ARAL BE WATERED TO PROTECT THE GRASS FROM DROUGHT DMARGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY OF WATER.

WAILER. BEFORE SODDING, ALL SOFT SPOTS AND INEQUALITES IN THE GRADING SHALL BE CORRECTED AND THE TOPSOLL SHALL BE ADEQUATELY FIRMED. ALL SOG SHALL BE INSTALLED WITHIN 43 HOURS AFTER ARRIVAL ON SITE. ATER INSTALLEDN, SODDE AREAS, MET DE BEALLED WITH A LIGHT ROLLER TO ELIMINATE MINOR DEPRESSIONS AND TO ENSIRE A GOOD BOND BETWEEN

PPROVAL TO PROCEED NOTIFY THE BOARD AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE PLACEMENT OF CONCRETE. APPROVAL TO PLACE CONCRETE WILL BE CON UPON HAVING SATISFIED THE COMPACTION REQUIREMENTS.

NI -IMBUCHS MITENDERET MX - PROPORTION NORMAL BENETY CONCRETE TO CANCEA-A214M0, CLUBE 16, TABLE 11, ALTERNATE 1 TO PRODUCE 20 DAY 1 CONVERSION STREACTIN 2 EXPANSION DATES - YREMOLOBE BITMINGUS FIBREBOARD 3 JOINT FLUER - CURRENC COMPOUND 4 CONCRETE CORRENC COMPOUND

.1 TO M.T.C. STANDARD SPECIFICATIONS FOR ROADWORK. 2 6" WIDE X 16" DEEP, 4000 FSI AT 28 DAYS, 3" MAXIMUM SLUMP, 6% AIR ENTRAINMENT, POURED IN PLACE CONCRETE WITH TOP AND BOTTOM BEINFORTING

PLACE GRANULAR BASE MATERIAL TO LINES, WIDTHS, AND DEPTHS AS INDICATED ON DRAWINGS AND SCOPE OF WORK. COMPACT GRANULAR BASE TO AT LEAST 100% OF MAXIMUM DENSITY TO ASTM DG88, METHOD C. WORETE

ATED ON DRAWINGS. BROOM FINISH OR MATCH EXISTING. CONCRETE TO BE 4000 PSI AT 28 DAYS, 3" MAXIMUM SLUMP, 6%

21 CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND MAINTENVICE OF SOCIDED AREAS INCLUDING WATERING AND MOWING UNTIL:
 3 SOCIDED AREAS ARE ESTABLISHED:
 2 SOCID STREE OF BAKE. MOD EXPOSID SPOTS AND UNTILIOUTI MEEDS;
 3 NO SURFACE SOL IS IN SIGHT WHEN GRASS HAS BEEN CUT TO A HEIGHT OF 11/2*

AFTER INSTALLATION, SOODED AREAS ARE TO BE ROLLED WITH A LIGHT ROLLEM 10 LUMINIMUE MINON GAR SOO AND SOLL AFTER FINAR ROLLING, ALL SOODED AREAS SHALL BE WATERED SUFFICIENTLY TO SATURATE THE TOPSOIL REMOVE FROM THE STER ALL DEBRIS AND SURPLUS MATERIALS RESULTING FROM SODDING OPERATIONS.

AVATION INCLUDES THE EXCAVATION OF ALL MATERIALS NOT HEREINAFTER CLASSIFIED AS ROCK I

PARTICULAR METHODS AND MEANS AVAILABLE FOR MATERIAL HANDLING, DISPOSAL, STORAGE AND TRANSPORTATION. PHYSICAL CONDITIONS OF SITE, INCLIDING GROUND WATER TABLE AND DRAINAGE COURSES. CONFORMATION AND CONDITION OF GROUND SURFACES.

PART II - PRODUCTS

PART III - EXECUTION

BEDDING AND BACKFILLING

PART II - PRODUCTS

PART III - EXECUTION

36. CONCRETE CURBS & SIDEWALKS

5" THICK BY WIDTH IN AIR ENTRAINMENT

RETURN TO AGENDA

.1 OBTAIN APPROVAL OF GRANULAR BASE PRIOR TO PLACING CONCRETE.

PART I - GENERAL

PART IL - PRODUCTS

3.2 CON

2.1 TOPSOIL AND FINISH GRADIN

TION AND BACKFILL FOR SERVICES

NOUNE USES, INCLUMINE DURAS OF JUNITS, INI ITA'S INDURSE BUSINS I DOLE. INSTALE DEPARSION JUNITS AT INTERINALS OF: I DURB INTERVISION (STATS AT INTERINALS OF: I DURB INTERVISION) SUBJECT AND A STATUS AND A STATUS AND A STATUS AND A STATUS SUBJECT AND A STATUS AND A STATUS AND A STATUS AND A STATUS SUBJECT AND A STATUS AND A STATUS AND A STATUS AND A STATUS SUBJECT AND A STATUS SUBJECT AND A STATUS AND A STATUS

CLERANSON JOINTS CURB - SHALL BE FLACED AT THE BEGINNING AND END OF ALL RADIUS POINTS AND AT ALL CONSTRUCTION JOINTS SIDEWALL - SHALL BE PLACED AT INTERVALS OF 20 FT. MAX. AND WHERE THE SIDEWALK MEETS THE CURB WHEN SIDEWALK IS ADJACENT TO CURB, MAKE JOINTS OF CURB AND SIDEWALK CONCIDE.

ING CURE CONCRETE BY ADDING MOISTURE TO EXPOSED FINISHED SURFACES FOR AT LEAST ONE DAY AFTER PLACING OR SEAL MOISTURE IN BY CURING COMPRIMIN 2 APPLY CHRING COMPOLIND EVENLY TO FORM CONTINUOUS FILM. FOLLOW MANUFACTURER'S INSTRUCTIONS.

HHOW, LUXA NEMAL NOTEY THE BARKA AT LEAST TWENTY-FOUR (24) HOURS BEFORE A PAVING OPERATION IS TO PROCEED. APPROVAL TO PLACE ASPHALT WILL BE COMINGENT UPON HAVING SATISFED THE COMPACIDION REQUIREMENTS FOR GRANULAR BASE. WEATHER CONDITIONS AND EVIDENCE THAT THE COMINGENT UPON HAVING SATISFED THE COMPACIDION REQUIREMENTS FOR GRANULAR BASE. WEATHER CONDITIONS AND EVIDENCE THAT THE EVIDENDMENTAL REQUIREMENTS. ENVIRONMENTAL REQUIREMENTS THE THE MEMORY AND EXAMPLE A MANIMUM OF BY'C AND RISING.

RANTEE GUARANTEE SHALL BE WRITTEN IN A FORM ACCEPTABLE TO THE BOARD.

37. ASPHALT PAVING

PART II - PRODUCTS

3.8 PARF

38. DIRECT BURIED UNDERGROUND CABLE DUCTS

PVC DUCTS AND FITTINGS PVC DUCTS TYPE DB2 FOR DIRECT BURIAL: WIT

WALL THICKNESS 2.87 MM 3.38 MM 3.68 MM 3.68 MM 3.91 MM 5.49 MM

PVC DUCTS TYPE DB2 SPLIT DUCTS. PVC DUCTS TYPE DB2 COUPLINGS, REDUCERS, BELL END F PVC DUCTS TYPE DB2, 90 AND 45 DEGREE BENDS AS REQU PVC DUCTS TYPE DB2, 9 DEGREE ANGLE COUPLINGS AS RE EXPANSION JOINTS AS REQUIRED.

SOLVENT WELD COMPOUND FOR PVC DUCT JOINTS.

IN EACH DUCT INSTALL PULL ROPE CONTINUOUS THROU MINIMUM OF 1.0 M COVER ON DUCTS.

PART 1 PRODUCTS

DUCT SIZE 19 MM 25 MM 32 MM 38 MM 50 MM 75 MM 100 MM

PART 2 EXECUTION

INSTALLATION OF DUCT

2.2 INSTALLATION - WARNING TAPE

3.9 CL

1.1

PARTI - CENERAL

CALLS GIVEL BE WRITTEN IN A FORM ACCEPTABLE TO THE BOARD.
PROVIDE GUARANTEES IN ACCORDANCE WITH THE FOLLOWING SCHEDULE
 SPHALT PAVING: TWO (2) YEARS FROM DATE OF FINAL ACCEPTANCE
 IN ALL CASES REPAIR, REPLACE OR OTHERWISE REMETY V V V V PENDO.

UNDER PARKING AND ROADWAYS: 9" B; 3" A. UNDER PLAY AREAS AND WALKS: COARSE GRANULAR "B", 6" THICK

ASPHALL: FACILITES FOR PRODUCING, TRANSPORTING AND LAYING ASPHALT MIXTURES SHALL MEET M.T.C. FORM 310 SPECIFICATION FOR HOT MIX, HOT LAID ASPHALT COMPRETE

PHALT CONCRETE. TOPPING HL. 3 ! BASE HL. 6 PHAD & PARKING LINES: ONE (1) COAT CROSS-WALK PAINT 1-GP-74. TACK COAT: SLOW SETTING ASPHALT EMULSION, TYPE SS-1 CONFORMING TO CAN 2 16.2 - M77 PRIME COAT: SHALL BE MC 30 ASPHALT BY SPRAY AT A RATE OF 1.6 LM2.

GRADE GOMENCEMENT OF WORK IMPLES ACCEPTANCE OF SURFACES AND CONDITIONS AND NO CLAM FOR DAMAGES OR RESULTING EXTRA WORK WILL BE ACCEPTED EXCEPT INVERE SURF CONDITIONS CANNOT BE DETERMINED PRIOR TO CONSTRUCTION ATTER EXCILATIONS ENDROL ALL CODE WITHALF ROM THE SUBGRADE NOR COL INT AN ARBERT RED ROLLER TO REVEAL SOFT AREA. ANY SUCH TO BE EXCILATE AS DIRECTED AND FULED WITH CLASS "Y IMATERIAL COMPACTED TO 59% STANDARD PROCTOR. APPROVAL OF SUBBASE MUST BE GRATMED FROM THE SUDD BEFORE GRAVALANT WITHAL PLACE.

DEI ANEUT FRUIT ITE BURKUBERTING URWALLAN WILKTWIL FULEU. INSTALL GRANLLAR BASE UNDER ALL ASPHALT SURFACES TO ACHIEVE REQUIRED LINES AND LEVELS. COMPACT LASS AND B GRANULLAR MATERIALS TO MINIMUM 95% STANDARD REPORTOR INIS OF ASPHALT.

NG UF ASTINUL PRORTO DELIVERY OF NIXTURE, BASE SURFACE SHALL BE DRY AND FREE OF ALL LOOSE OR FOREIGN MATERIAL. TEMPERATURE OF MIXTURE SHALL NOT BE LESS THAN 120°C IMMEDIATELY AFTER SPREADING PRIOR TO INITIAL ROLLING. PLANT MIXING SHALL BE

TEMPERATURE OF MALINE, SHALL HUT BE LESS THEY HIS UNKNOWN SAVE FREMEN OF COMPACTORY ALSOMENT OF SPREADER BY M RECINICAL PARES OF A STRUCTURE ALSOMENT AS THE LEBE - PROVIDE INSERVED WORKING SAVE FREMINE, CONTROL ALSOMENT OF SPREADER BY M RECINICAL PARES OF AS TRUCTURE AS STRUCTURE - RECINFE INSERVED WORKING SAVE FREMINE, CONTROL ALSOMENT OF SPREADER BY INSERVED FAIL AND STRUCTURE AS STRUCTURE - RECORD FREE INSERVED WORKING SAVE FREMINE, CONTROL AND SEN OF PAREMENT SO THAT SPREADER IS DIRECTLY BY ALCOMENT STARSE MINOR THE EGG OF PREEDING CONSEL. INSERVED FAIL AND ALMORT MAD GREVE COMPACTION, CHECK SUBFACE, ADJUST ANY NEQUALITES, REMOVE FAT SPOTS AND CORRECT GRADEST D'S MINIMAM CROSSFALL FROM GROWN OR WITH ONE WAY SLOPES TO ENSURE POSITIVE BRANAGE ACCORDING TO THE GENERAL DRAMAGE

INREGULARITES IN ALCINUMENT AND GROCE GROUPS TO 24 MINIMUM CORSIST, HEND REVORTING OR WITH ONE WAY SLOPES TO ENSURE POSITIVE BRAINAGE ACCORDING TO THE GENERAL BRAINAGE 5 PARTINE AND READMINYS IN Y BASE IN TOPPING 19 MINISA ON A PROVIDENCE STATUTE 10 MINISA ON A PROVIDENCE STATUTE 2 DRAIN CARSE WATER SHITCHTS, CATCH BASING, MANHOLES SHALL BE KEPT FREE OF ASPHALT AND SHALL BE ADJUSTED TO CONFORM IN HEIGHT TO THE TOP OF THE FREINED ASPHALT

TUP OF THE INBRIED ASPINIT 9 IN INBROW PAYEMENTS TOEED OR REPECIAR SECTIONS, INTERSECTIONS, TURNOUTS, ETC., WHERE IT IS IMPRACTICAL TO SPREAD BY MACHINE METHODS, USE APPROVED SPREADING EQUIPARIT OR SPREAD MATCHER PH HAID, WHEN MATTIRE IS TO BE SPREAD BY HAID, DO ND DUBY LOADS FATTER THAN THAT YOU AR E HANGLOL. IN SECTIONS AUADACT TO MONTHER AD AREAS, CARRY ON THAN SPREADING CONCIDENTION YMMI MACHINEL-UNION IN ORDER TO DETAIN A GOOD JOINT. ENSURE DIMENSIONS AND TIME-SPACING OF RAKES ARE SUCH AS TO AVIOD SEGREGATION OF MATTIRE

AMPLYTON FOR EACH PAVER USED SINGLY, PROVIDE A MINIAUM OF ONE STEEL TIRED ROLLER FOR BREWBOWN AND FINISH ROLLING AND ONE PHEUMARCT TRED ROLLER FOR NITERBEDATE BOLLING. IF SATISFACTORY ODUPACTORY IS NOT SECURED WITH THE IMMUNIAUMED OF ROLLERS, PROVIDE AND EMPLOY ADDITIONAL EQUIPMENT MEND ROMED BOTH THE GOMON. CONTROL PRODUCTION AND FANCING OF MINITIES OF INFALL ROLLING IS COMPLETED BEFORE SUBSET.

v=vvvie siteLinker vselates and vselate 10 AND DEPARCEMENT OF MATURE BUT NAWY CASE NOT EXCEENCE THERE (S) MLES FRE HOR. COMMENCE BERANDON ROLLING AS SOLVENT HATE THE MILTURE MER ROLLER MINIOL THOUTO GEORAGE ONE UNDE DESPACEMENT. TART FOLLING LONGTIOUNLLY AT LOWER DEC OF PAVEMENT AND PROCEED TOWARDS HCHERE EDGE, OVERLAPPING ON SUCCESSIVE TRIPS, STAGGER ALTERNATE TIRES OF ROLLER THERE OF ROLLER DESTINGTION DECISION OF THE STATE THE MILTURE DECISION OF THE DECISION OF MUCH STATE AS A STATE FOLLING THERE OF ROLLER DESTINGTION OF THE DESTINGTION OF THE DESTINGTION OF THE DESTINGTON OF THE DESTINGTON OF THE DESTINGTION OF THE DESTINGTION OF THE DESTINGTION OF THE DESTINGTON OF THE DESTINGTON OF THE DESTINGTON OF THE DESTINGTION OF THE DESTINGTON OF THE DESTINGT

THREE OF ROLLER. IN-LIFELION BREAMOONN ROLLER AS LOSELY AS POSSIBLE. ARRANCE PASSES TO ENSURE OVERLAPPING SUCCESSIVE THE PATHE BRACE TIRES ARE IN PROFECCIONOLITIAL TALLES TO PREVENT ROLLING TO MOLTURE. BRACINE ROLLES AND LE ROCCORE DERONTION AT ALL THES TO PREVENT ROLLING TO MOLTURE. SURGINER ROLLING SAULE ROCCORE DERONTION AT ALL THES TO PREVENT ROLLING TO MOLTURE. SURGINER ROLLING SAULE ROCCORE DERONTION AT ALL THES TO PREVENT ROLLING TO MOLTURE. ACING ORIS, HEADERS, MONSOLES AND SIMILAR STRUCTURES AND FACES BOY ACCESSIBLE TO THE ROLLER, THOROUGHLY COMPACT MATURE EV MARKS OF HOT THREES FETENTING YEAR. CONSTRUCTURES AND FACES BYRITIZES AND FACES BOY ACCESSIBLE TO THE ROLLER, THOROUGHLY COMPACT MATURE EV MARKS OF HOT THREES FETENTING YEAR. CONSTRUCTURES AND FACES BYRITIZES BYRITIZES AND FACES BYRITIZES BYRITIZES AND FACES BYRIT

RESTORE ANY DAMAGED ROAD OR PARKING LINE WORK TO 1-GP-74.

EAN UP REMOVE FROM THE SITE ALL DEBRIS AND SURPLUS PAVING MATERIALS RESULTING FROM PAVING OPERATIONS. CLEAN MANHOLES AND CATCH BASINS WHERE SUCH DEBRIS AND MATERIAL HAS ACCIDANT ATER

TTINGS, PLUGS, CAPS, ADAPTORS AS REQUIRED TO MAKE COMPLETE INSTALLATION.	
RED.	
QUIRED.	

CABLE PULLING EQUIPMENT 6 MM STRANDED NYLON PULL ROPE TENSILE STRENGTH 5 KN.

HORTON TOWNSHIP **GREEN & INCLUSIVE** COMMUNITY BUILDINGS

DJECT ADDRESS

INSTALLATION OF DUCES INSTALL DIRECT BURED DUCES ACCORDING TO DRAWINGS AND SPECIFICATIONS. GREW TREVIDE OUES DUCES ACCORDING TO DRAWINGS AND SPECIFICATIONS BULL INCERSISTATE OHNORE IN GRADE OF DUCES. FOR SECTIONS OF THE DUCES ACCORDS BURINGS POUNDATIONS AND UNDERMEANT BUILDINGS. USE CALVANCED ROED STEEL CONDUITS IN LIEU OF ROED PVC DUCES. DIRIOT HE'S STEEL CONDUITS IN THE DUCE BWK AND COMPACT TO THE GRADIAD GRID AT THE POINT OF ENTITY BELICITISM. BURGINAS DAR GORDON WIES SZET DIE ALS IN DIRECTORIUM TO ADMETISM STATE ANDERSIST. DE TOMOS DE TOTAL DUCES TOMOS DUCES D M SPARE ROPE AT EACH END

PROVIDE CONTINUOUS WARNING RED WARNING TAPE WITH BLACK LETTERING ACROSS ENTRE WIDTH OF DUCT AND THE ENTIRE LENGTH OF THE DUCT. SEE DUCT BANK DETAIL ON DRAWING E4.



Jp2g Consultants Inc. IS · PLANNERS · PROJECT MAN

1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 859 PHONE: 613-828-7800 FAX: 613-828-2600

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS WHICH MAY OCCUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.

- SPECIFICATIONS AND THE USBAIN WIENT THE FORWET. WHERE THERE ARE ALLEGED ERRORS, OMISSIONS, INCONSISTENCIES OR MINISUITIES PRESENT IN THE CONTRACTO COLUMENTS, THE CONTRACTOR MUST SEEK CLARRICATION FROM JP2G. ANY COSTS OR SCHEDULE DELAYS WHICH RESULT AS A FALLIRE TO CONTRACT JP2G FOR DRECTION SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- IS DRAWING IS THE PROPERTY OF JP2G CONSULTANTS INC. AND IS AN STRUMENT OF SERVICE THAT IS PROTECTED BY COPYRIGHT. NO USE OF THIS AWING MAY BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF JP2G DNSULTANTS INC.
- CUNSULTAINTS INC. DO NOT SCALE DRAWINGS, REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICTS TO JP2G FOR CLARIFICATION PRIO TO COMMENCEMENT OF THE WORK.
- O COMMERCEMENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBTRADES AND SHALL ADDRESS CONSTRUCTION TEAM COORDINATION IT RIOR TO ISSUING REQUESTS FOR INFORMATION FROM JP2G. CORDINATION ITEMS

ISSUED FOR 80% DESIGN REVIEW 2023/05/31 2023/04/07 ISSUED FOR 50% DESIGN REVIEW No. DATE REVISION COMMENTS

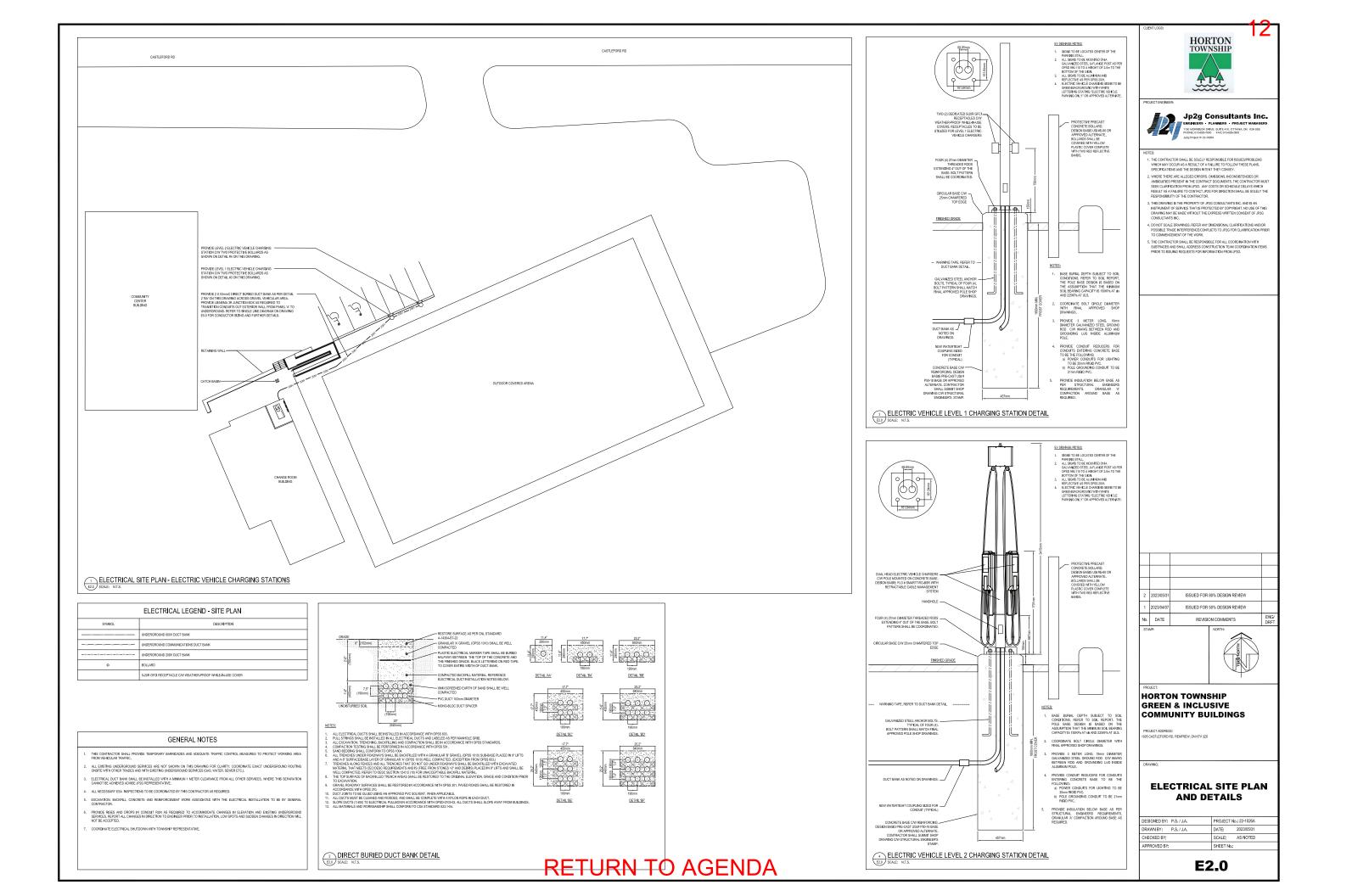
TBUENORTH

CASTLEFORD RD, RENFREW, ON K7V 3Z8

SPECIFICATIONS

DESIGNED BY: P.S. / J.A.	PROJECT No.: 22-1026A
DRAWN BY: P.S. / J.A.	DATE: 2023/05/31
CHECKED BY:	SCALE: AS NOTED
APPROVED BY:	SHEET No.:

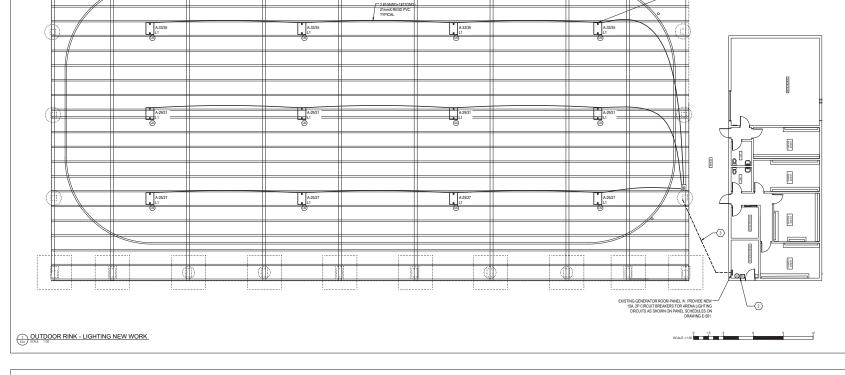
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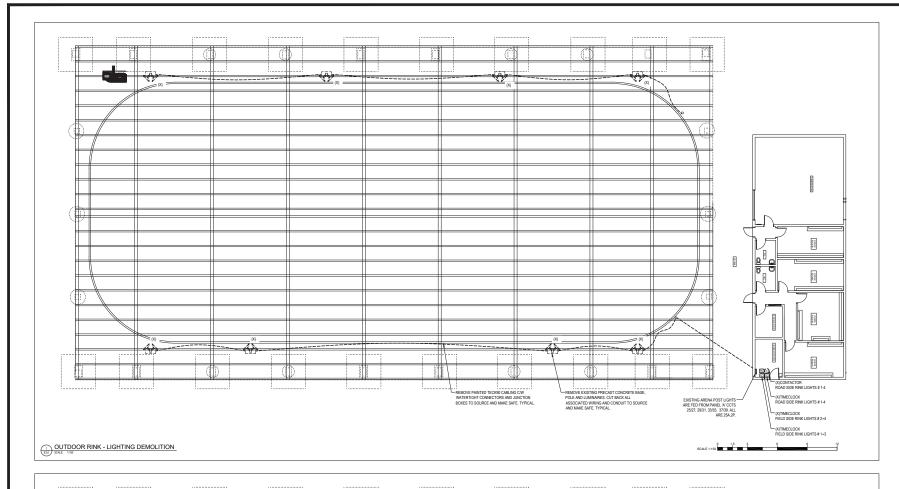


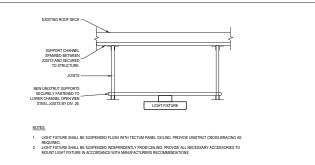
			NOTES. 1. LIGHT FIXTURE SHALL BE SUSPENDED FLUSH WITH TECTUM PANEL CS REQUIRED.								
TA	TAG DESCRIPTION CATALOGUE NUMBER LUMENS TYPE WATTS COLOUR VOLTS MOUNTING						VOLTS	MOUNTING	REMARIS		LIGHT FIXTURE SHALL BE SUSPENDED INDEPENDENTLY FROM CEILING MOUNT LIGHT FIXTURE IN ACCORDANCE WITH MANUFACTURERS RECO
Ľ	L1 & X2.5' LED HIGH BAY OW OCCUPANCY DAY BRITE OT BY SIGNIFY # SENECR BAY OW OCCUPANCY DAY BRITE OT BY SIGNIFY # FEXT2LLBUINW +ULCHAUGOB GRIPS WG 65224 LED 487 4000K 240V SUSPENDED HIGH									OUTDOOR RINK - LUMINAIRE MOUNTING DETAIL	
	I					1		1	RETURN TO AGENDA	L	

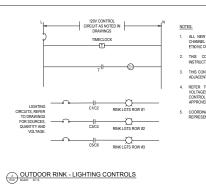
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2 CONTROLS: REFER TO DETAIL #3 ON THIS DRAWING. PROVIDE NEW LIGHTING CONTACTOR AND TIMECLOCK TO CONTROL OUTDOOR RINK LIGHTING. EUCT BANK
 EUC BANK

PHOTO #3: EXISTING TIMECLOCK AND CONTACTOR RINK LIGHTIN TO BE REMOVED. PHOTO #4: EXISTING OUTDOOR RINK COLUMNFOOTING AND EXTERIOR OF CHANGE ROOM BUILDING. SHOWN FOR REFERENCE. CONSTRUCTION NOTES EXAMPLES
 PROVIDE LINEWHORKAY LID LUMINARE ON INTEGRATED OUTDOOR OCCURINCY SENSOR REFER TO LUMINARE SCHEDULE ON THIS DRAWING FOR FURTHER DETAILS
 PROVIDE LINISTRUT SUPPORT BETWEEN ROOF BEAMS AND VHOOKCHAIN MOUNT LUMINARE LEVEL







ALL NEW EXTERIOR MOUNTED LIGHTING TO BE CONTROLLED BY A ONE CHANNEL 7-DAY PROGRAMMABLE TIMECLOCK. DESIGN BASIS INTEMATIC ET8015C OR APPROVED ALTERNATE.

2. THIS CONTRACTOR SHALL INCLUDE TIME CLOCK PROGRAMMING INSTRUCTIONS IN O&M MANUAL FOR FUTURE ADJUSTMENTS. THIS CONTRACTOR SHALL PROVIDE MANUAL OVERRIDE SWITCHES MOUNTED ADJACENT TO TIMECLOCK.

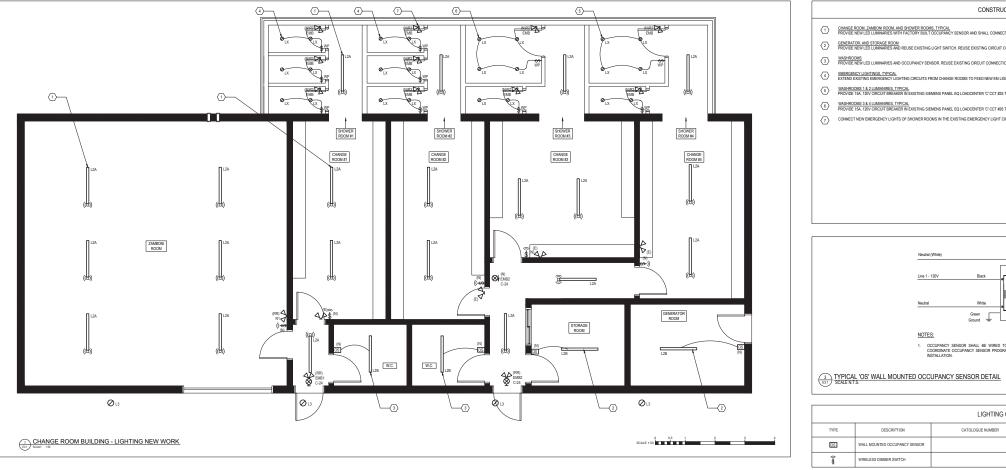
REFER TO FLOORPLANS FOR QUANTITY OF LIGHTING CIRCUITS AND VIOLTAGES FOR QUANTITY OF CONTACTORS AND POLES REQUIRED. 120V CONTROL COLL SQUARE D LIGHTING CONTACTOR, NEMA 3R ENCLOSURE OR APPROVED ALTERNATE.

COORDINATE EXACT TIMECLOCK PROGRAMMING WITH TOWNSHIP REPRESENTATIVE DURING COMMISSIONING PHASE OF THE PROJECT.

PROJ	ECT ENGINEE		<u>TTT</u>	
PROJ	ECT ENGINEE			
Ĩ			Consultant RERS · PLANNERS · PROJECT RRISON DRIVE, SUITE 410, OTTAWA, OD RRISON DRIVE, SUITE 410, OTTAWA, OD	MANAGERS
NOTE		Jp2g Proje	13-828-7800 FAX: 613-828-2600 act #: 22-1026A	
3.	WHICH MAY O SPECIFICATIO WHERE THER AMBIGUTIES I SEEK CLARIFI RESULT AS AI RESPONSIBILI THIS DRAWINN MAY CONSULTANT: DO NOT SCALL POSSIBLE TR/ DO NO	CCUR AS A RESU NS AND THE DES E ARE ALLEGED E RRESENT IN THE CATION FROM JP. AILURE TO COM TY OF THE CONT TY OF THE CONT TY OF THE CONT S IS THE PROPER OF SERVICE THA' BE MADE WITHO S INC. E DRAWINGS. REI DE INTERFEREN EMENT OF THE W LTOR SHALL BOR	TY OF JP2G CONSULTANTS INC. AN T IS PROTECTED BY COPYRIGHT. N JUT THE EXPRESS WRITTEN CONS FER ANY DIMENSIONAL CLARIFICAT CE/CONFLICTS TO JP2G FOR CLARI	E PLANS, ICLES OR TRACTOR MUST LAYS WHICH BE SOLELY THE ID IS AN 0 USE OF THIS ID IS AN 0 USE OF THIS ID IS ANDIOR FICATION PRIOR ION WITH

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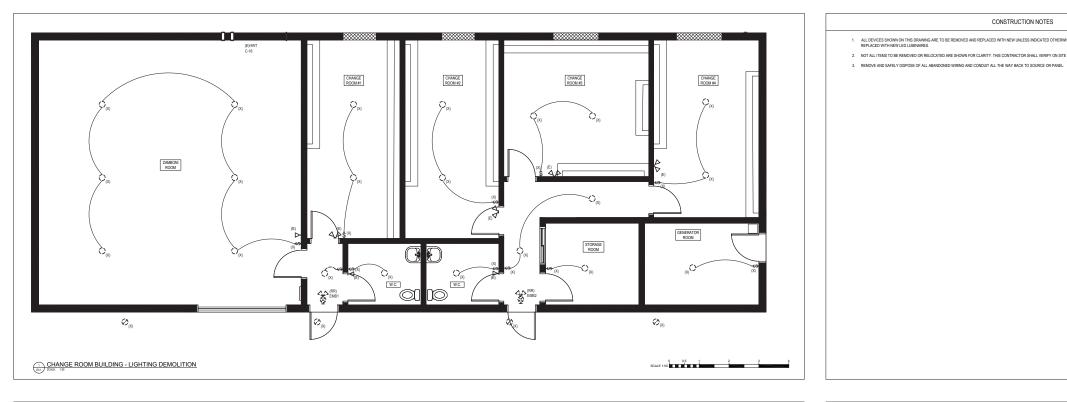
							L	UMINAIRE S	CHEDULE	EMERGENCY LIGHTING SCH					
TAG	DESCRIPTION	CATALOGUE NUMBER	LUMENS	TYPE	WATTS	COLOUR	VOLTS	MOUNTING	REMARKS] [TYPE	DESCRIPTION	CATOLOGUE NUMBER		
L2A	4FT LED STRIPLIGHT C/W INTEGRATED WIRELESS OCCUPANCY SENSORDIMMING		1904	LED	16	4000K	120V	SURFACED	LED STRPLIGHT, WHITE ACTILIC MATTE PAINT FINISH AND FROSTED ACTILIC DIFFUSER FACTORY INSTALLED MOTION SENSOR WIRELESS CONTROLLED WITH DIMMABLE WALL SWITCH MATCH EXISTING SURFACE MOUNTED HEIGHTS ONSITE SUTABLE FOR DWP LOCATIONS, <u>STEAR WARRANTY</u> DLC LISTED.		k⊗i	CEILING MOUNTED EXIT SIGN C/W DIRECTION ARROWS AS INDICATED		SINGLE/DOUBLE FACED UNIV DIRECTIONAL ARROWS AS IN CONSUMPTION. CSA CERTIFI	
L28	4FT LED STRIPLIGHT		1904	LED	16	4000K	120V	SURFACED	LED STRPLIGHT, WHITE ACTIVIC MATTE PAINT FINISH AND FROSTED ACTIVIC DIFFUSER FACTORY INSTALLED MOTION SENSOR WIRELESS CONTROLLED WITH DIMMABLE WALL SWITCH MATCH EXISTING SURFACE MOUNTED HEIGHTS ONSITE SUTABLE FOR DAMPLOCATIONS <u>STRAF WARRANTY</u> LOC LISTED.		4 8	COMBO EXIT SIGN BATTERY UNIT C/W		SINGLE/DOUBLE FACED UNIV DIRECTIONAL ARROWS AS IN CONSUMPTION C/W INTEGRA	
L3	6" DOWNLIGHT C/W GOOF RING - EXTERIOR WET LOCATION LISTED		1100	LED	15	4000K	120V	RECESSED	6" RECESSED LED DOWNLIGHT. ADJUSTABLE LUMEN OUTPUT LED OUTPUT AT 4000K CW 0-10V CONTINUOUS DIMMING DRIVER. 5 YEAR WARRANTY, ENERGY STAR LISTED.		Ŷ	INTEGRATED REMOTE HEADS		MOUNT EMERGENCY BATTER SWITCH. CSA CERTIFIED TO C	
	4" LED DOWNLIGHT - WET LOCATION LISTED											REMOTE HEAD		CAST METAL HOUSING WITH V LAMPS.	
L4	SHOWER AREA		500	LED	8	4000K	120V	RECESSED			44 ^{R2}	REMOTE HEAD - WET LOCATION			
	RETURN TO AGEN									יוכ					





NOTES:

DESCRIPTION



1. ALL DEVICES SHOWN ON THIS DRAWING ARE TO BE REMOVED AND REPLACED WITH NEW UNLESS INDICATED OTHERWISE. ALL LIGH REPLACED WITH NEW LED LUMINAIRES.

2. NOT ALL ITEMS TO BE REMOVED OR RELOCATED ARE SHOWN FOR CLARITY. THIS CONTRACTOR SHALL VERIFY ON SITE ALL ITEMS.

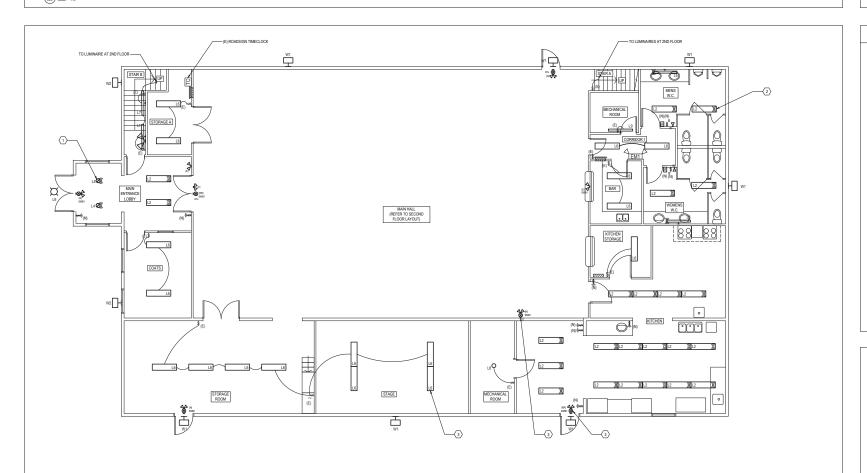
			CLIENT LOGO:
ARE TO BE	CONSTRUCTION NC	TED OTHERWISE ALL LIGHT FIXTURES SHOWN ON THIS DRAWING ARE TO BE	HORTON TOWNSHIP
	E SHOWN FOR CLARITY. THIS CONTRACTOR SHALL VI WIRING AND CONDUIT ALL THE WAY BACK TO SOURC		
			РРОЛЕСТ ВИЗИКЕЕ
			 NOTES 11: TE: CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS INFOLD MAY OCCUR AS A RESULT OF AFALURE TO FOLLOW THESE RANS, SPECIFICATIONS AND THE DESIGN NETWORK CONSISTINGTISS OR AMBIGUTES PRESENT IN THE CONTRACT COCMBITIST THE CONTRACTOR MAT BEST THE REAR RELIGIES OF RESIGN AND THE CONSISTINGTISS OF RESPONSIBLING THE CONTRACTOR. 11: TEID SMIRING IS THE CONTRACTOR USE OF RESIGNMENT AND USE OF THE DORMING IS THE CONTRACTOR. 11: TEID SMIRING IS THE CONTRACTOR WITH THE SOLE Y'HE RESPONSIBLING THE CONTRACTOR. 11: TEID SMIRING IS THE CONTRACTOR IN SMILL BE ALLE Y'HE RESPONSIBLING THE CONTRACTOR. 12: TEID SMIRING IS THE CONTRACTOR. 14: TEID SMIRING IS THE CONTRACTOR. 15: TEID CONTRACTOR. 16: TO COMERCIAN THE EXPRESSION AND THE SWIRTER AND CONTRACTOR. 16: TO COMERCIAN THE FOR ALL COORDINATION WITH SHIFTINGER AND SHALL BRESS CONSTRUCTION THE COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CONSTRUCTION THE COORDINATION ITEMS PROVING TO ISSUE AND SHALL BRESS CONSTRUCTION THE COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CONSTRUCTION THE COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CONSTRUCTION THE COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CONSTRUCTION THAN COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CONSTRUCTION THAN COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CONSTRUCTION THE COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CONSTRUCTION THAN COORDINATION ITEMS PROVING TO ISSUES AND SHALL BRESS CO
	CONSTRUCTION NO	ITES	
ROOMS, T	TYPICAL CUPANCY SENSOR AND SHALL CONNECTED BE IN A S	SWITCH WITH DIMMING CONTROLS. REFER TO LUMINAIRE SCHEDULE AND CONTROL DETAIL ON THIS DRAWING.	
	SHT SWITCH. REUSE EXISTING CIRCUIT CONNECTIONS		
ISTING LIG	R. REUSE EXISTING CIRCUIT CONNECTIONS IN PANEL	. REFER LIGHTING CONTROL SCHEMATIC AT DETAIL #3 ON THIS DRAWING.	
ISTING LIG CY SENSO UITS FROM	I CHANGE ROOMS TO FEED NEW EM LIGHTING. TRACI	E AND IDENTIFY EMERGENCY CIRCUITS SPARE CAPACITY PRIOR TO CONNECTION OF NEW DEVICES.	
ISTING LIG CY SENSO UITS FROM NG SIEME NG SIEME	II CHANGE ROOMS TO FEED NEW EM LIGHTING. TRACI	e and identify emergency circuits spare capacity prior to connection of new devices. Shower Rooms Luminares, use shizang - #12 GND IN 21 MM conduit to connect. Shower Rooms Luminares, use shizang - #12 GND IN 21 MM conduit to connect.	
INTELLING LIGUESTING LIGUESTING LIGUESTING LIGUESTING LIGUESTING SIEMEE INTELLING SIEMEE Neutral (White I - 120) Neutral (White I - 120) Neutral (White I - 120)		E AND IDENTIFY ENERGENCY CIRCUITS SPARE CAPACITY PRIOR TO CONNECTION OF NEW DEVICES. SHOWER ROOMS LUMINARES. USE 2H2AWG - H2 OND IN 21 MM CONDUIT TO CONNECT. SHOWER ROOMS LUMINARES. USE 2H2AWG - H2 OND IN 21 MM CONDUIT TO CONNECT. INVERCOMS. White Red Lupiting Load	2 202305/31 ISSUED FOR 80% DESIGN REVIEW 1 20230407 ISSUED FOR 80% DESIGN REVIEW No DATE REVISION COMMENTS ENC STAMP NORTH ENC ENC
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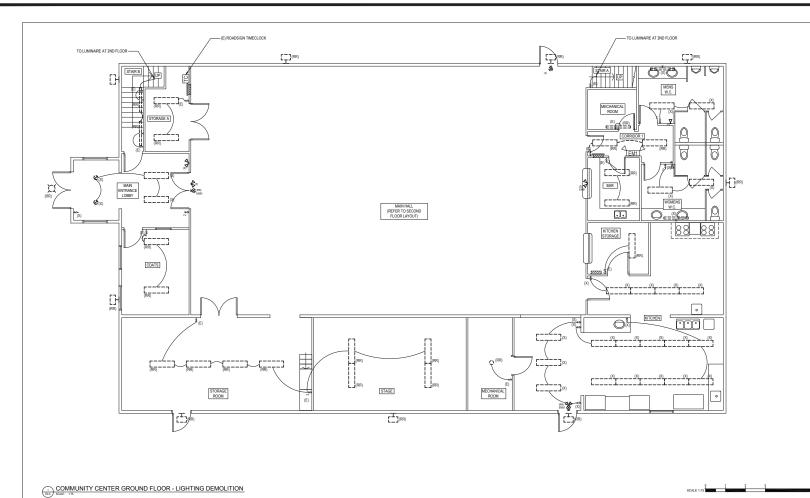






COMMUNITY CENTER GROUND FLOOR - LIGHTING NEW WORK







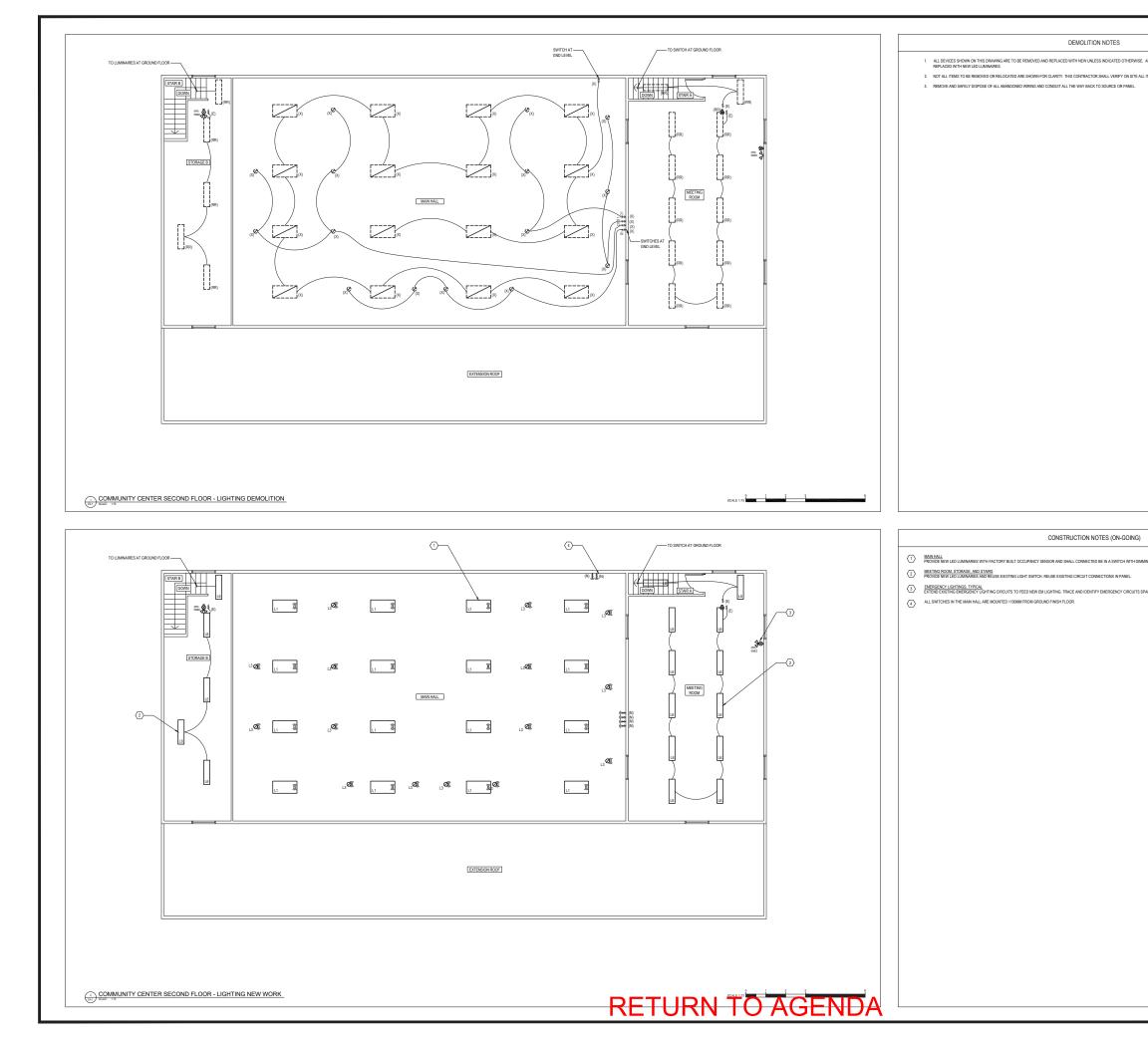


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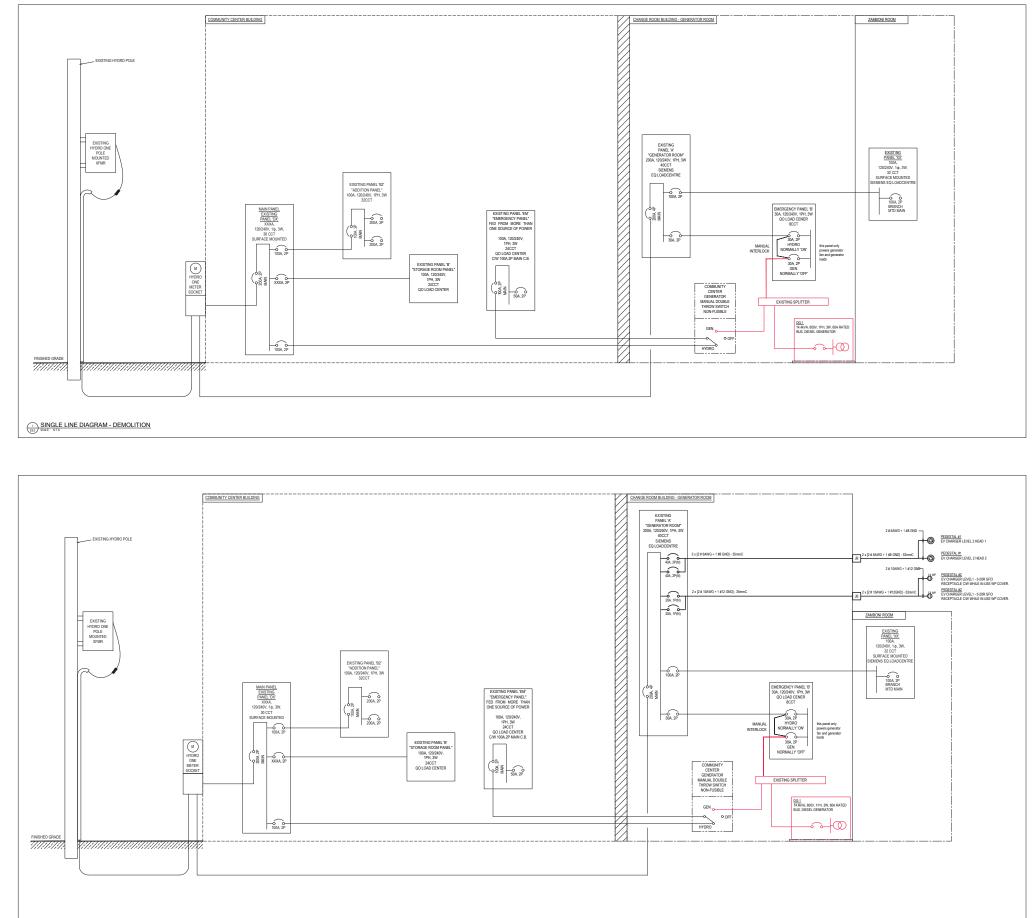
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	DRA CHE	WN BY: CKED BY:			DATE: 2023/05/3 SCALE: AS NOTE	1



	CLIENT LOGO:	40
s work	H	ORTON OWNSHIP
	ENGINE 1150 MOR PHONE: 6	Consultants Inc. ERS - Planers - Project Managers Brook Roye, Batte 40, Ottawa, ON Koneso 1005-1000 - Planets 1005-1000 - Planets
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	PROJECT: HORTON TOV GREEN & INC COMMUNITY PROJECT ADDRESS: 1005 CASTLEFORD RD, REWREW, ON	LUSIVE BUILDINGS
	POWER A	NITY CENTER AND SYSTEMS ON & NEW WORK
	DESIGNED BY: P.S. / J.A. DRAWN BY: P.S. / J.A.	PROJECT No.: 22-1026A DATE: 2023/05/31 COAL 5: 40.NOTED
	CHECKED BY: APPROVED BY:	SCALE: AS NOTED SHEET No.:
		E4.2



SINGLE LINE DIAGRAM - NEW WORK

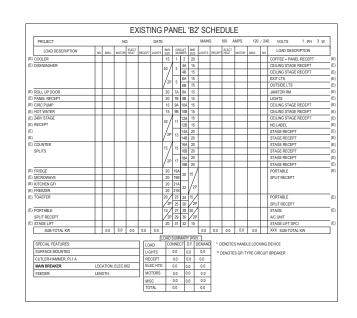
Э HORTON TOWNSHIP Jp2g Consultants Inc. ENGINEERS · PLANNERS · PROJECT MANAGERS HIS MORRISON DRIVE, BUTE 440, OTTAWA, ON, K2H 850 PHONE 613-628-7800 FAX: 613-828-5800 WHERE THERE ARE ALLEGED ERRORS, OMISSIONS, INCONSIST AMBIGUITIES PRESENT IN THE CONTRACT DOCUMENTS. THE C ROM JP2G. ANY C FAILURE TO CONTACT JP20 TY OF THE CONTRACTOR. SHAY OF SERVICE THAT IS PROTECTED BY COPYRIGHT. NO USE OF THI 3 MAY BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF JP2G TANTS INC. CUNNEL INFISION. DO NOT SCALE DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIO POSSIBLE TRADE. INTERFERENCECIONALICITS TO JP26 FOR CLARIFI TO COMMENCEMENT OF THE VIORE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDNATION SUBTINGES AND SHALL ADDRESS CONSTRUCTION FRAM. DP20. ISSUED FOR 80% DESIGN REVIEW 2023/05/31 ISSUED FOR 50% DESIGN REVIEW 2023/04/07 REVISION COMMENTS No. DATE HINOKI HORTON TOWNSHIP GREEN & INCLUSIVE COMMUNITY BUILDINGS ROJECT ADDRESS: 16 CASTLEFORD RD, RENFREW, ON K7V 328 SINGLE LINE DIAGRAM DEMOLITION AND NEW WORK SIGNED BY: P.S. / J.A. PROJECT No.: 22-1026A
 DATE:
 2023/05/31

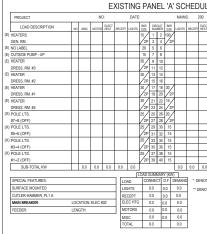
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 AS NOTED

 SHEET No.:
 AWN BY: P.S. / J.A. HECKED BY: ROVED BY E5.0

MAIN BUILDING PANEL SCHEDULES







	CLIENT LOGO:
GENERATOR ROOM	HORTON
PANEL SCHEDULES	TOWNSHIP
	TT
EXISTING PANEL 'A' SCHEDULE	
PHOLECI NVC LARTE MARKS ZOU AMP L/2// AW VDLIS I PH 3 W LOAD DESCRIPTION NO MECH RECT RECT RECT RECT NO	PROJECT ENGINEER:
(E) HEATERS 15 1 2 100 SUB PANEL (E)	Jp2g Consultants In
(E) NO LABEL 20 5 6 SPACE	ENGINEERS · PLANNERS · PROJECT MANAG
(E) OUTSIDE PUMP-UP 15 7 8 SPACE (E) HEATER 30 9 10 SPACE	1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 659 PHONE 613-428-7406 FAX: 613-428-2460 Jugg Phojek # 22-1038A
DRESS.RM.#3 ZP 11 12 SPACE (E) HEATER 30 13 14 SPACE	
DRESS, RM, #2 ZP TS T6 SPACE (E) HEATER 30/17 18 33/ GENERATOR (E)	NOTES:
Bit HETER 30 / 11 / 18 / 32 / 21 GENERATOR (E) DRESS RM #1 /2P / 19 / 32 / 21 PANEL (E) OF HETER 33 / 21 / 21 / 52 HETER (E)	 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEM WHICH MAY OCCUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.
DRESS.RM. #4 /2P BATHRM #1 (X) POLE LTS. 25/25 25 20/20 HEATERS IN HALL (E)	2. WHERE THERE ARE ALLEGED ERRORS, OMISSIONS, INCONSISTENCIES OR
#7+8 (OFF) /2P 27 28 /2P + BATHRM #2 (OFF) (X) POLELTS. 25 29 30 15 POT LIGHTS (OFF) (E)	AMBIGUITIES PRESENT IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SEEK CLARIFICATION FROM JP2G, ANY COSTS OR SCHEDULE DELAYS WHIC RESULT AS A FAILURE TO CONTACT JP2G FOR DIRECTION SHALL BE SOLE!
V(1) Class Collow V(1) Class Collow (C) Class Collow 85-6 (OF) ZZP ISI 12 15 HALLWAY- BATHLTS + RECEPT [E] (X) POLE LTS. ZZP / SI 32 15 EMERGENCY LIGHTING (E)	RESPONSIBILITY OF THE CONTRACTOR.
#3+4 (OFF) 2P 35 36 15 DRESS RMS. 1,2,3,4 LTS. RECEPT (E)	THIS DRAWING IS THE PROPERTY OF JP2G CONSULTANTS INC. AND IS AN INSTRUMENT OF SERVICE THAT IS PROTECTED BY COPYRIGHT. NO USE OF
#1+2 (OFF) ZP 39 40 15 LTS. GEN RM + STORAGE (E)	DRAWING MAY BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF JP CONSULTANTS INC.
SUB-TOTAL KW 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	 DO NOT SCALE DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIONS AND POSSIBLE TRADE INTERFERENCE/CONFLICTS TO JP2G FOR CLARIFICATION
SPECIAL FEATURES: LOAD CONNECT DF. DEMNID DENOTES HANDLE LOCKING DEVICE SURFACE MOUNTED LIGHTS 0.0 0.0 * DENOTES GRI TYPE CIRCUIT BREAKER	TO COMMENCEMENT OF THE WORK. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH
CUTLER-HAMMER PL1A RECEPT 0.0 0.0 0.0 MAN BREAKER LOCATION ELEC 802 ELEC HTG 0.0 0.0	SUBTRADES AND SHALL ADDRESS CONSTRUCTION TEAM COORDINATION IT PRIOR TO ISSUING REQUESTS FOR INFORMATION FROM JP2G.
FEEDER: LENGTH: MOTORS 0.0 0.0 0.0	
MISC 0.0 0.0 0.0 TOTAL 0.0 0.0	
	<u> </u>
ANEL SCHEDULES	
EXISTING PANEL 'XX' SCHEDULE	
PROJECT NO: DATE: MAINS: 100 AMPS 120 / 240 VOLTS 1 PH 3 W	
LOAD DESCRIPTION NO MSC MOTOR BEC CAUGET BSC LOAD DESCRIPTION 3 PANEL RECEPT NO MSC MOTOR BSC LOAD DESCRIPTION LOAD DESCRIPTION	
E) HEATERS 30 3 4 15 2 RECEPTS ON INSIDE WALL (E)	
Z2P 5 6 15 RECEPT BEADE FRE EXT (F) E) RECEPTS END WALL 5 7 8 (S) PRESSURE (E) DIGHTS 15 9 105 /P SYSTEM (E)	
(E) YARD LIGHT 15 11 12 30 NO (E)	
(E) NO LABEL (OFF) 15 13 14 /2P LABEL (E) NO LABEL (OFF) 15 15 15 HOT WATER (E)	
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	PROJECT			N			DATE					MAINS		XXX #	100	120	1.24	0 VOLTS 1 PH 3 W
	PROJECT	_		N.		_	UATE		_		_	inpure.	s	<u> </u>	MPS	120	/ 24	
	LOAD DESCRIPTION	NO	MISC	MOTOR	ELECT HEAT	RECEPT	LIGHTS	BKR SIZE	CIR NUB	CUIT IBER	BKR SIZE	LIGHTS	RECEPT	ELECT HEAT	MOTOR	MSC	NO	LOAD DESCRIPTION
(E)	RECEPT							15	1	2	15							OUTSIDE GFI
(E)	2ND FLOOR RECEPT							15	3	4	15							ENTRANCE + CLOSET RECEPT
(E)	FR ENT + CLOSET LTS							15	5	6	15							2ND FLR LTS
(E)	GYM LTS							15	7	8	15							FRONT EXT. LTS
(E)	GYM LTS				15	9	10	15							AUTO DOOR OPENER			
(E)	OFFICE				20/	11	12	30 /							FRONT ENTRANCE			
	HEAT				/2P	13	14	/2P							HEATER			
(E)	SIGN	N							15	16	20							RECEPT AT FLAG POLE
(E)	OFFICE RECEPT								17	18	20							STREET LTS 2
	SPACE								19	20								SPACE
	SPACE								21	22								SPACE
	SPACE								23	24								SPACE
	SUB-TOTAL KW		0.0	0.0	0.0	0.0	0.0		-	-		0.0	0.0	0.0	0.0	0.0		SUB-TOTAL KW
							Г	OAD :	SUM	AR'	(KW	7						
	SPECIAL FEATURES:					LO	AD	CO	NNE	CT).F. [EMANE	* D	ENOTE:	S HANDI	E LOCK	ING	DEVICE
	SURFACE MOUNTED						HTS		0.0	6	0	0.0			S GELT		cuit	RREAKER
	CUTLER-HAMMER, PL1 A		RF	CEPT	-	0.0	10	0	0.0	1	Jenone	0 0111						
	MAIN BREAKER:	02	EL	EC HTG	+	0.0	0	0	0.0									
	FFFDFR	I FN	CTH-		-	M	TORS	+	0.0	0		0.0						
		LLI					SC.	+	0.0	0	-	0.0	1					
						-	TAL	-	0.0	ľ	·	0.0	1					

	PROJECT			N	D:		DATE					MAIN	S:	100 <i>p</i>	AMPS	120	/ 24	VOLTS 1 PH 3 W
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(E)	KITCHEN							15 /	1.	2A	15			-				FURNACE
	RECEPT							17	1	2B	15							FURNACE
	EAST WALL							/ 2P	3	4	20							NO LABEL
(E)	KITCHEN RECEPT EAST WALL							15	5A	6	20							KITCHEN RECEPT SOUTH WALL
(E)	KITCHEN RECEPT EAST WALL							15	5B	Ľ	20							
	KITCHEN RECEPT EAST WALL							15	7	8	20							KITCHEN RECEPT WEST WALL
	KITCHEN RECEPT EAST WALL							15	9A	10	20							FREEZER
	KITCHEN RECEPT EAST WALL(OFF)							15	9B									
	KITCHEN RECEPT EAST WALL							15		12A							_	GRILL
	KITCHEN RECEPT EAST WALL							15		128	15							HALL LTS
	KITCHEN EXHAUST FAN							15	13A		15							FRIDGE
(E)	KITCHEN EXHAUST FAN	-	-	-	-			15	13B	-						-	_	
(E)	MICROWAVE							20	15	16A 16B			-	_		-	-	BATTERY PACK HALL / BATHROOM LTS
-	KITCHEN LTS	-	-	-	-	-		15	17A		20 /	<u> </u>	-			-	-	HALL / BATHROOM LTS
	KITCHENLIS	-	-	-	-	-		15	17B	18	~/							LABEL
	OUTSIDE LTS	-	-	-	-	-		60 /	119	-	/2P							DADEL
(E)	OUTSIDELTS							17	21	22A	15							NO LABEL
								/ 2P	21	228	15							NO LABEL
	NO LABEL							15	23	24	50/							NO
	NO LABEL							15		26	/2P							LABEL
	NO LABEL							20/	27	28	30/]						NO
(E)	NO LABEL							/2P	29	30	/2P							LABEL
(E)	NO LABEL							15	31	32A	20							NO LABEL
										32B	20						_	NO LABEL
	SUB-TOTAL KW		0.0	0.0	0.0	0.0	0.0	J				0.0	0.0	0.0	0.0	0.0		SUB-TOTAL KW
											r (KW							
	SPECIAL FEATURES:						AD	-		CT	D.F. [EMANE	1.0	ENOTE	S HANDI	LE LOCH	UNG	DEVICE
	SURFACE MOUNTED	_				LIC	SHTS		0.0	0	1.0	0.0		DENOTE	S GFI T	YPE CIR	сип	BREAKER
	CUTLER-HAMMER, PL1 A	_					CEPT		0.0	0	1.0	0.0						
	MAIN BREAKER:	LOC	ATION	ELEC 8	302	EL	EC HTG	T	0.0	0	.0	0.0						
	FEEDER	LEN	IGTH:			MC	DTORS	Г	0.0	0	.0	0.0						
						MS	SC	T	0.0	0	.0	0.0	1					
			TO	TAL		0.0	T		0.0	1								

MAIN BUILDING PANEL SCHEDULES



	PROJECT			N	γ		DATE					MAIN		100 A	MPS	120	24	0 VOLTS 1 PH 3 W	٦
	LOAD DESCRIPTION				ELECT			BKR	CIR	сит	BKR			ELECT				LOAD DESCRIPTION	-
(E)	COOLER	NO	MISC	MOTOR	HEAT	RECEPT	LIGHTS	SIZE 15		IBER	SIZE 20	LIGHTS	RECEPT	HEAT	MOTOR	MISC	NO	COFFEE + PANEL RECEPT	
	DISHWASHER					-		15	+ I	4A	15			-				CEILING STAGE RECEPT	-
()	Diditional Line							40 /	3	4B	15	-		-				CEILING STAGE RECEPT	-
								17	H	6A	15	-		-			-	FXITLTS	-
								/2P	5	68	15	-		-			-	OUTSIDE LTS	-
(E)	ROLL UP DOOR							20	7A	8A	15						_	JANITOR RM	-
	PANEL RECEPT					-		20	7B		15							LIGHTS	-
(E)	CIRC PUMP							15		10A	15						-	CEILING STAGE RECEPT	-
(E)	HOT WATER					-		15	9B	10B	15			-			_	CEILING STAGE RECEPT	-
(E)	240V STAGE					-				12A	15	-					-	CEILING STAGE RECEPT	-
	RECEPT							30 /		128	15						-	NO LABEL	-
(E)								1/	H	14A	20			-			_	STAGE RECEPT	-
(E)								/2P	13	14B	20							STAGE RECEPT	-
(E)	COUNTER									16A	20							STAGE RECEPT	-
	SPLITS							15/	15	16B	20						_	STAGE RECEPT	-
								17		18A	20						_	STAGE RECEPT	-
								/2P	17	18B	20						-	STAGE RECEPT	1
(E)	FRIDGE							20	19A	20								PORTABLE	
(E)	MICROWAVE							20	19B	20	15/							SPLIT RECEPT	
(E)	KITCHEN GFI							20	21A		1/2P								
(E)	FREEZER							20	21B	22	124								
(E)	TOASTER							20/	23	24	15/							PORTABLE	
								/2P	25	26	V2P							SPLIT RECEPT	
(E)	PORTABLE							15/	27	28	30/							STAGE	
	SPLIT RECEPT							/2P	29	30	/2P							A/C UNIT	
(E)	STAGE LIFT							20	31	32	15							STAGE LIFT GFCI	
	SUB-TOTAL KW		0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0		XXX SUB-TOTAL KW	
							Γ	LOAD	SUM	MARY	r (KW)								
	SPECIAL FEATURES:					LC	AD	CC	INNEC	CT E	D.F. C	EMANE	1.0	ENOTE	S HANDU	E LOCK	NG	DEVICE	
	SURFACE MOUNTED					LIC	SHTS		0.0	10	1.0	0.0	1	ENOTE	S GELT	PE CIR	зил	BREAKER	
	CUTLER-HAMMER, PL1 A					RE	CEPT		0.0	0	1.0	0.0	1						
	MAIN BREAKER	LOC	ATION:	ELEC 8	02		EC HTG	;	0.0	0	-	0.0	1						
	FEEDER	LEN	GTH:			M	DTORS	+	0.0	0	-	0.0	1						
		LLIV				M	PC.	_	0.0	0		0.0	1						
							ITAL	_	0.0	0.		0.0	4						

GENERATOR ROOM PANEL SCHEDULES EXISTING PANEL 'A' SCHEDULE	HORTON TOWNSHIP
PROJECT NO DATE MARS 200 AUR to 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1	PROJECT ENVIREER JP22g Consultants Inc. ENVIREMENTS - PLANERS - PROJECT MANAGERS THOM RESIDENT FUNCTION OF MEDI July Hydrone RESA 1000 - FUNCTION OF MEDI July Hydrone RESA 1000 - FUNCTION OF MEDI PORT
OPERSIS RM #2 2 2 15 16 0 1 EV CHARGE LEVEL 1 HEAD 20, INI (P) HGATE 3 7 15 10 2 1 3 1 1 0	NOTES: 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SSUES-PROBLEMS WHICH NAVY OCCUR AS A RESULT OF A FALLINE TO FOLLOW THESE PARS, SPEEDFACTIONS MO THE DESIGN INTENT THEY CONTRACT, SOLE MINISTRIP AND
CHANGE ROOM PANEL SCHEDULES	
EXSTINCE PAREL 'C' SCHEDULE Image: Notes in the second sec	2 20230531 ISSUED FOR 80% DESIGN REVIEW 1 20230407 ISSUED FOR 80% DESIGN REVIEW No DATE REVISION COMMENTS STAME: NORTH
	HORTON TOWNSHIP GREEN & INCLUSIVE COMMUNITY BUILDINGS PROJECT ADDRESS 1005 CASILEFORD RD, REWREN, ON KOY 328
	PANEL SCHEDULES - NEW WORK
	DESIGNED BY: P.S. / J.A. PROJECT No.: 22-1025A DRAWN BY: P.S. / J.A. DATE: 202305/31 OFECKED BY: SCALE: AS NOTED APPROVED BY: SHEET No.: E5.2

GENERATOR ROOM PANEL SCHEDULES EXISTING PANEL 'A' SCHEDULE	HORTON TOWNSHIP	
PROJECT NO DATE MARS 200 AUTS VD1 / 200 V	PROJECT ENGINEER	
PN COVERED AREMALTS. PS PS <td> This DRAWING IS THE PROPERTY OF JPSC CONSULTANTIS NC. AND S.M. INSTRUMENT OF SERVICE THAT SPREDICTUED BY COMPRETING VOLUME OF THIS DRAWING MAY BE MORE WITHOUT THE EXPRESS WITTEN CONSENT OF JPSG CONSULTATIS NC. DON'T SCALE DRAWINGS, REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TORUS INTERFERENCEMENT LET 30 JPS OF CAMPACITION FIND TO COMMENCEMENT SPRECE. CONSENTITION CLARIFICATIONS AND/OR TO COMMENCEMENT SPRECE. CONSENTITION CLARIFICATIONS AND/OR TO ECOMMENCEMENT SPRECE. CONSENTITION TO AND WITH SUBTINGES AND SMALL ADDRESS CONSTRUCTION TEAM COORDINATION TEAM PRIOR TO ISSUING REQUESTS FOR MYORIANION FROM JPG. </td>	 This DRAWING IS THE PROPERTY OF JPSC CONSULTANTIS NC. AND S.M. INSTRUMENT OF SERVICE THAT SPREDICTUED BY COMPRETING VOLUME OF THIS DRAWING MAY BE MORE WITHOUT THE EXPRESS WITTEN CONSENT OF JPSG CONSULTATIS NC. DON'T SCALE DRAWINGS, REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TORUS INTERFERENCEMENT LET 30 JPS OF CAMPACITION FIND TO COMMENCEMENT SPRECE. CONSENTITION CLARIFICATIONS AND/OR TO COMMENCEMENT SPRECE. CONSENTITION CLARIFICATIONS AND/OR TO ECOMMENCEMENT SPRECE. CONSENTITION TO AND WITH SUBTINGES AND SMALL ADDRESS CONSTRUCTION TEAM COORDINATION TEAM PRIOR TO ISSUING REQUESTS FOR MYORIANION FROM JPG. 	
CHANGE ROOM PANEL SCHEDULES		
EXISTING PANEL 'C' SCHEDULE MOLECT NO DATE MOLECT I MOLECT NOL DATE MOLECT NOL DATE MOLECT NOL DATE MOLECT NOL NOL MOLECT NOL NOL <th colspan<="" td=""><td></td></th>	<td></td>	
TEEDER LENGTH MOTORS 00 00 00 MSC 00 00 00 00 00 TOTAL 0.0 0.0 0.0 0.0	2 202305/31 ISSUED FOR 80% DESIGN REVIEW 1 202304/07 ISSUED FOR 50% DESIGN REVIEW No. DATE REVISION COMMENTS DRFT STAMP: NORTH DATE Image: Comment to the state of the state	
	PROJECT: HORTON TOWNSHIP GREEN & INCLUSIVE COMMUNITY BUILDINGS PROJECT ADDRESS: 1055 GASTLEFORD RD, REWREN, ON KTY 328	
	PANEL SCHEDULES - NEW WORK	
	DESIGNED BY: P.S. / J.A. PROJECT No.: 22-1026A DRAWN BY: P.S. / J.A. DATE: 202305/31 OFECKED BY: SCALE: AS NOTED APPROVED BY: SHEET No.: E5.2	

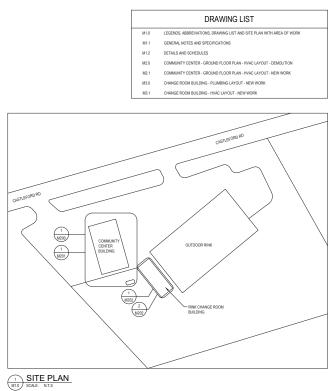
												MAINS		www.		120		
	PROJECT			NC):		DATE	_	_	_		MAUNE	с	XXX /	WPS	120	/ 24	0 VOLTS 1 PH 3 W
	LOAD DESCRIPTION	NO	MISC	MOTOR	ELECT HEAT	RECEPT	LIGHTS	BKR SIZE	CR NU	cuit IBER	BKR SIZE	LIGHTS	RECEPT	ELECT HEAT	MOTOR	MSC	NO	LOAD DESCRIPTION
(E)	RECEPT							15	1	2	15							OUTSIDE GFI
E)	2ND FLOOR RECEPT							15	3	4	15							ENTRANCE + CLOSET RECEPT
E)	FR ENT + CLOSET LTS							15	5	6	15							2ND FLR LTS
E)	GYM LTS							15	7	8	15							FRONT EXT. LTS
E)	GYM LTS				15	9	10	15							AUTO DOOR OPENER			
E)	OFFICE				20 /	11	12	30 /							FRONT ENTRANCE			
	HEAT				/2P	13	14	/2P							HEATER			
E)	SIGN				20	15	16	20							RECEPT AT FLAG POLE			
(E)	OFFICE RECEPT							15	17	18	20							STREET LTS 2
	SPACE								19	20								SPACE
	SPACE								21	22								SPACE
	SPACE								23	24								SPACE
	SUB-TOTAL KW		0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0		SUB-TOTAL KW
							1	OAD :	SUM	ARY	(KW	٦						
	SPECIAL FEATURES:					LO	AD	CO	NNE	CT E).F. [EMAND	* D	ENOTE	S HANDI	E LOCH	(ING	DEVICE
	SURFACE MOUNTED						SHTS		0.0	0	.0	0.0		ENOTE	S GELT	PE CIR	сил	RREAKER
	CUTLER-HAMMER, PL1 A		RF	CEPT	-	0.0	0	0	0.0	1								
	MAIN BREAKER:	02	EL	EC HTG	+	0.0	0	0	0.0	1								
	FFFDFR	LEN	GTH-			M	TORS	-	0.0	0.		0.0						
		LLIN					SC	+	0.0	0.	0	0.0	1					
						1	TAL	+	0.0	-	+	0.0						

	PROJECT			N	D:		DATE					MAIN	S:	100 <i>p</i>	MPS	120	/ 24	VOLTS 1 PH 3 W
	LOAD DESCRIPTION	NO	MISC	MOTOR	ELECT HEAT	RECEPT	LIGHTS	BKR SIZE	CIR	CUIT	BKR SIZE	LIGHTS	RECEPT	ELECT	MOTOR	MISC	NO	LOAD DESCRIPTION
(E) K	ITCHEN							15 /		2A	15							FURNACE
R	ECEPT								1	28	15							FURNACE
E	AST WALL							/2P	3	4	20							NO LABEL
(E) K	ITCHEN RECEPT EAST WALL							15	5A									
(E) K	ITCHEN RECEPT EAST WALL							15	5B	6	20							KITCHEN RECEPT SOUTH WALL
(E) K	ITCHEN RECEPT EAST WALL							15	7	8	20							KITCHEN RECEPT WEST WALL
(E) K	ITCHEN RECEPT EAST WALL							15	9A		20							FREEZER
(E) K	ITCHEN RECEPT EAST WALL(OFF)							15	9B	10	20							FREEZER
(E) K	ITCHEN RECEPT EAST WALL							15	11A	12A	15							GRILL
(E) K	ITCHEN RECEPT EAST WALL							15	11B	128	15							HALL LTS
(E) K	ITCHEN EXHAUST FAN							15	13A									
(E) K	ITCHEN EXHAUST FAN							15	13B	14	15							FRIDGE
										16A	15							BATTERY PACK
(E) M	IICROWAVE							20	15	16B	15							HALL / BATHROOM LTS
(E) K	ITCHEN LTS							15	17A		20 /							NO
(E) K	ITCHEN LTS							15	17B	18	/							LABEL
(E) C	UTSIDE LTS							60 /	19	20	1/2P							
										22A	15							NO LABEL
								/2P	21	228	15							NO LABEL
(E) N	IO LABEL							15	23	24	50 /							NO
(E) N	IO LABEL		-		-			15	25	26	1/2P							LABEL
	IO LABEL		-		-			20 /	27	28	30 /		-				\vdash	NO
	IO LABEL							/28		30	/28							LABEL
· · -			-		-			ŕ		32A	20	-	-				-	NO LABEL
(E) N	IO LABEL							15	31	328	20							NO LABEL
Г	SUB-TOTAL KW		0.0	0.0	0.0	0.0	0.0		-	_		0.0	0.0	0.0	0.0	0.0		SUB-TOTAL KW
		-					, L	OAD	SUM	WAR'	r (KW	_					-	
5	SPECIAL FEATURES:					LO	AD	CO	NNE	CT	D.F. [EMANE	0 ' 0	ENOTE	S HANDI	LE LOCH	ang	DEVICE
5	SURFACE MOUNTED					LIG	HTS		0.0		1.0	0.0	1	ENOTE	S GELT	YPE CIR	сил	BREAKER
7	CUTLER-HAMMER, PL1 A					RF	CEPT	-	0.0	1	1.0	0.0	1 '					
	MAIN BREAKER	100	ATION	FLECS	102		EC HTG		0.0	-	.0	0.0	1					
- H	in an Direbucht	_		LLLOI			TORS	_	0.0		.0	0.0	1					
h	CEEDED							_	0.0	-	0	0.0	1					
h	FEEDER:	LEN	GTH:															
h	FEEDER	LEN	GIH:			MB	TAL	_	0.0	ľ	~	0.0	1					

HORTON TOWNSHIP GREEN AND INCLUSIVE COMMUNITY BUILDINGS

1005 CASTLEFORD ROAD, RENFREW, ON K7V 3Z8

	LEGEND - AIR DISTRIBUTION		LEGEND - EQUIPMENT		LEGEND - CONTROLS	LEGEND - PIPING SPECIALTIES		LEGEND - GENERAL
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL DESCRIPTION	SYMBOL	DESCRIPTION
<u> 300x250</u>	DUCT SIZE, WHERE FIRST DIMENSION IS VISIBLE		PUMP	Ţ	TEMPERATURE SENSOR			ITEM TO BE DEMOLISHED
	SUPPLY AIR RECTANGULAR DUCT DOWN	0	COOLING COIL	0	THERMOSTAT	O PIPE RISES UP		EXISTING ITEM TO REMAIN
	SUPPLY AIR RECTANGULAR DUCT UP	Θ	HEATING COIL	FZ	FREEZESTAT	BRANCH OFF BOTTOM OF PIPE		NEW ITEM TO BE PROVIDED
£ 12	RETURNEXHAUST AIR RECTANGULAR DUCT DOWN	IA I	ELECTRIC COIL		HUMIDITY SENSOR	BRANCH OFF TOP OF PIPE	(X)	DENOTES EXISTING ITEM TO BE REMOVED
ŧ II	RETURNEXHAUST AIR RECTANGULAR DUCT UP	3	HUMDIFIER DISTRIBUTOR		HUMIDISTAT	CONTINUOUS PIPE	(E)	DENOTES EXISTING ITEM TO REMAIN
Ē	TURNING VANES	Ŕ	UNIT HEATER, VERTICAL DISCHARGE (DOWN)		CARBON MONOXIDE SENSOR	1% PIPING PITCH (DN. OR UP: INDICATE)	(R)	DENOTES EXIST'G ITEM TO BE RELOCATED
<u>←</u> ⊗	SUPPLY AIR ROUND DUCTWORK DOWN		UNIT HEATER, HORIZONTAL DISCHARGE		CARBON DIOXIDE SENSOR	DIRECTION OF FLOW		SECTION A ON DRAWING M1
	SUPPLY AIR ROUND DUCTWORK UP	Q	CENTRIFUGAL FAN		GAS SENSOR	CAPPED PIPE		DETAIL 1 ON DRAWING M1
<u>ه</u>	RETURNEXHAUST AIR ROUND DUCTWORK DOWN	Å	VANEAXIAL FAN	 _	STATIC PRESSURE SENSOR			
€10	RETURNEXHAUST AIR ROUND DUCTWORK UP	ł	PROPELLER FAN		REFRIGERANT GAS SENSOR	FLANGE CONNECTION		ABBREVIATIONS
	CHANGE OF ELEVATION: RISE (R) AND DROP (D)	N			SMOKE DETECTOR	HEAT TRACED PIPING	SYMBOL	DESCRIPTION
/]	CAPPED DUCT	8	FILTER		CONTROL WIRING	M METER	BBH	BASEBOARD HEATER
<u>≠ 53</u>	ACCESS DOOR ON TOP		FLOW STRAIGHTENER	O ^{PB}	PUSH BUTTON	AUTOMATIC AIR VENT WITH MANUAL RELEASE, SHUTOFF COCK, AND DISCHARGE PIPING	BD	BALANCE DAMPER
<u>≠_</u>	ACCESS DOOR ON BOTTOM	×	SINGLE-BLADE OR BUTTERFLY DAMPER		FILTER DIFFERENTIAL PRESSURE INDICATOR	AAV AUTOMATIC AIR VENT	CO	CLEAN OUT
t AD	ACCESS DOOR ON SIDE				DIFFERENTIAL PRESSURE SENSOR	PIPE GUIDE	CU	CONDENSING UNIT
	THERMALLY INSULATED DUCT		OPPOSED BLADE DAMPER	 ₽	AIR FLOW MEASURING STATION	PIPE ANCHOR	E/A	EXHAUST AIR
£7	ACOUSTICALLY LINED DUCT	1	PARALLEL BLADE DAMPER	+ &	SOLENOID VALVE	EXPANSION JOINT	EF	EXHAUST FAN
<i>{₹</i>	FLEXIBLE CONNECTION	l l	LOUVER		2 WAY ELECTRONIC CONTROL VALVE (2 POSITION)	EXPANSION LOOP	HRV	HEAT RECOVERY VENTILATOR
	FLEXIBLE DUCT				2 WAY ELECTRONIC CONTROL VALVE (MODULATING)	FLEXIBLE CONNECTION	HWT	HOT WATER TANK
⊳+ _{BD}	TAP IN WITH BALANCING DAMPER AND RIGID DUCT		ROOF VENTILATOR, INTAKE		3 WAY ELECTRONIC CONTROL VALVE (#DOUBLEWING)	STRAINER STRAINER	MAU	MAKE-UP AIR UNIT
	SOUND ATTENUATOR		ROOF VENTILATOR, EXHAUST	→ [₩]	3 WAY ELECTRONIC CONTROL VALVE (MODULATING)	SEISMIC SUPPORT (PRE-MANUFACTURED)	O/A	OUTSIDE AIR
	BALANCING DAMPER		RADIANT PANEL, HEATING OR COOLING			T THERMOMETER	PG	PROPANE GAS
	FIRE DAMPER		FINNED TUBE RADIATION		MOTORIZED DAMPER (SINGLE BLADE OR BUTTERFLY)	PRESSURE GAUGE	R	REFRIGERANT
0	ROUND DIFFUSER	•	VARIABLE AIR VOLUME (VAV) TERMINAL UNIT		MOTORIZED DAMPER (PARALLEL BLADE)			
×	SQUARE DIFFUSER	ODF	CEILING MOUNTED DE-STRATIFICATION FAN		MOTORIZED DAMPER (OPPOSED BLADE)			
	SUPPLY GRILLE		WALL MOUNTED CENTRIFUGAL FAN		MOTORIZED DAMPER (UPPOSED BLADE)			
(**************************************	LINEAR BAR DIFFUSER	0	CABINET FAN WITH SPEED CONTROLLER					
	RETURN GRILLE		MOTORIZED OPPOSED BLADE DAMPER					
	EXHAUST GRILLE	PANEL	GAS DETECTOR CONTROL PANEL (COINO2)					
∄≫	SIDEWALL SUPPLY GRILLE			 				
₽₩	SIDEWALL RETURNEXHAUST GRILLE		LEGEND - PLUMBING	_				
	TRANSFER GRILLE	SYMBOL	DESCRIPTION	_			Г	
	DOOR GRILLE		SANTARY DRAIN ABOVE GROUND	_				DRAWING LIST
-Auc	DOOR UNDERCUT	SAN	SANTARY DRAIN BELOW GROUND	_				M1.0 LEGENDS, ABBREVIATIONS, DRAWING LIST AND SITE PLAN WITH AREA OF
~	DIFFUSER/GRILLE IDENTIFICATION TAG	V	VENT	_				M1.1 GENERAL NOTES AND SPECIFICATIONS M1.2 DETAILS AND SCHEDULES
IX TAG FLOW	TAG: TYPE OF DIFFUSERGRILLE (SEE SPECIFICATION SECTION) ic: NUMBER OF DIFFUSERGRILLE HAVING THE SAME SPECIFICATIONS DIM: NEX SIZE IN mmg/		DOMESTIC COLD WATER	_				M2.0 COMMUNITY CENTER - GROUND FLOOR PLAN - HVAC LAYOUT - DEMOLITION
	FLOW: FLOW RATE IN L/s		DOMESTIC HOT WATER	_				M2.1 COMMUNITY CENTER - GROUND FLOOR PLAN - HVAC LAYOUT - NEW WORK
	LINEAR SLOT DIFFUSER		DOMESTIC HOT WATER RECIRCULATION	_				M3.0 CHANGE ROOM BUILDING - PLUMBING LAYOUT - NEW WORK M3.1 CHANGE ROOM BUILDING - HVAC LAYOUT - NEW WORK
	I MEAD SLOT DIFFUSED ON BLEM IN IDENTIFICATION TAC	# нв	HOSE BIB/WALL HYDRANT	_			l	
	LINEAR GEGT DIFFUSER GW PLENUM IDEN (IF/GATION TAG	H NFHB	NON FREEZE HOSE BIBBWALL HYDRANT	_				
IX TAG NLET	LINEAR SLOT DIFFUSER C/W PLENUM IDENTIFICATION TAG TAG: TYPE OF LINEAR DIFFUSER (SEE SPECIFICATION SECTION) ic: NUMBER OF LINEAR DIFFUSERS HAVING THE SAME SPECIFICATIONS	00						
ix TAG NLET DIM FLOW	TAG: TYPE OF LINEAR DIFFUSER (BEE SPECIFICATION SECTION) iz: NUMBER OF LINEAR DIFFUSERS HAVING THE SAME SPECIFICATIONS DML LENSTH OF THE LINEAR DIFFUSER IN mm INLET: NLET SIZE IN mm/D FLOW: FLOW RATE IN LA	CO	DRAIN PIPE WITH CLEANOUT	_				
ix TAG NLET DIM TLOW	DIM: LENGTH OF THE LINEAR DIFFUSER IN mm INLET: INLET SIZE IN mmØ	g ^{co}	DRAIN PIPE WITH CLEANOUT UP TO FLOOR					CASTLEFORD RD
	DIM: LENGTH OF THE LINEAR DIFFUSER IN mm INLET: INLET SIZE IN mmØ						_	CASTLEFORD RD



LEGEND SYMBOLS ARE TYPICAL AND MAY NOT ALL APPEAR ON DRAWINGS

RETURN TO AGENDA

		HO	RTON /NSHIP	Ζ.	
_		A + <u>j</u>			
PRC		Jp2g	Consulta PLANNERS • PRO DRIVE, SUITE 410, OTTAN 800 FAX: 613-828-2800 1028A	JECT MANAG	
3	THE CONTRA WHICH MAY C SPECIFICATIC WHERE THEF AMBIGUITISS SEEK CLARIF RESULT AS A RESPONSIBLE THIS DRAWIN MATCHING MA CONSULTATION DO NOT SCAL POSSIBLE TR TO COMMENC THE CONTRA SUBTRADES.	TTO SHALL BE SOLEY. COUR AS A RESULT OF , REA AN THE DESCRIPTION OF A REA MILLED ESSAN AN REAL ALLED SOLEY RESULT IN THE CONTROL RESULT IN THE CONTROL RESULT IN THE CONTROL OF SERVICE AND THE CONTROL ON THE CO	A FALURE TO FOLLOW VENT THEY CONVEY. S (MISSIONS, INCONS ACT DOCUMENTS, INT VOSTS OR SCHOLMENTS, IN VOSTS OR SCHOLMENTS IN VOSTS OR SCHOLMENTS IN DIFECTED BY COPYRIG E EXPRESS WRITTEN C V DIMENSIONAL CLARI (FLICTS TO JP2G FOR USIBLE FOR ALL COORE SIBLE FOR ALL COORE	THESE PLANS, ISTENCIES OR E DEONTRACTOR E DELAYS WHIC E DELAYS WHIC HALL BE SOLELY IC. AND IS AN HT. NO USE OF T SONSENT OF JP2 FICATIONS AND CLARIFICATION WITH SORDINATION WITH	MUST H THE THIS IG IOR PRIOR
2	2023/05/31	ISSUED FOI	R 80% DESIGN REV	лем	AM / N
1	2023/04/06	ISSUED FO	R 50% DESIGN REV		AM / N ENG
	2023/04/06 DATE	ISSUED FO			AM / N
1 No. STA	2023/04/06 DATE MP: NECT: ORTO REEN	ISSUED FO	R 50% DESIGN REV SION COMMENTS NORTHE		AM / N ENG
1 No. STA PRC GI GI C(1005)	2023/04/06 DATE MP NECT: ORTO REEN OMMU	ISSUED FO REVIE N TOWN & INCLU JNITY BU S. S. O. REMFREW, ON YOU SU	R SO'N DESIGN REI SION COMMENTS NORTH NORTH SHIP JSIVE JSIVE JILDING		AM / N ENG
1 No. STA PRC GI GI CO PRC DRA	202304/06 DATE AMP AMP AMP AMP AMP AMP AMP AMP AMP AMP	ISSUED FO REVIE N TOWN & INCLU JNITY BU S. S. O. REMFREW, ON YOU SU	R 50% DESIGN REI SION COMMENTS SION COMMENTS NORTH SHIP JSIVE JILDING SHIP JSIVE JILDING STAN	is NS, D SIT	AM / M ENG DRF
1 No. STA PRC GI GI CC PRC DRA	20230466 DATE MIP VACT: ORTOOREEN OOMMI OMMING ACSTLETORD / VWING ACSTLETORD / PL	ISSUED FO REVI: IN TOWN & INCLI JNITY BI 0, REVIEW, ON KY 32 LEG ABBREV WING LI AN WIT	R 50% DESIGN REI SION COMMENTS SION COMMENTS NORTH SHIP JSIVE JILDING SHIP JSIVE JILDING STAN	NS, D SIT	AM / M ENG DRF
1 No. STA PRC GI GI CO PRC DRA	20230406 DATE DATE ORTO ORTO REEN OMMU WWW. LIGNED BY: 1 LIGNED BY: 1	ISSUED FO REVIE IN TOWN & INCLI JNITY BI LEG ABBREV WING LI AN WIT WO	R SO'N DESIGN REI SION COMMENTS NORTH NORTH SHIP JSIVE JILDING SHIP JSIVE JILDING SHAREJ DIST AN HAREJ DRK PROJECT NO: DATE 2	NS, D SIT	AM / M ENG DRF

22

GENERAL ISMIC RESTRAINT SYSTEM (RSR): DESIGN TO BE PROFESSIONAL ENGINEER SPECIALIZING IN DESIGN OF SRS AND REGISTERED IN THE PROVINCE OF ONTARIO. SRS CALCULATIONS AND DRAWINGS SHALL BEAR THE SRS DESIGN ENGINEER'S SEAL AND SIGNATURE. I REP ROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RESPECTIVE DISCIPLINE AS IT SAL AND SIGNATURE SEAL AND SIGNATURE RIFE MODELTINI CONTRACTOR SIMUL BENEROSIGNE FOR INTER RESPONDE DISCIPLINE AS IT RIFE MODELTINI CONTRACTOR SIMUL BERSINGE FOR INTER RESPONDE DISCIPLINE AS IT RESPONDE TO THE RESPONDENCE OF AN UNDER SIMULTATION OF A DISCIPLINE AS IT SEGME RESTANTS HE TO REPORTED FOR ALL OPERATIONAL AND FANCTORUL CONTRACTORS SEGME RESTANTS HE TO REPORTED FOR ALL OPERATIONAL AND FANCTORUL CONTRACTORS DISCIPLINE SERVICES AND CONTRACTOR DISCIPLINE AND ADDRESS INCOLATION AND RESTANT DISCIPLINE SERVICES AND ADDRESS INCOLATION AND ADDRESS INCOLATION AND RESTANT TO SEINO RESTANTS HE TO REPORTED FOR ALL OPERATIONAL AND FANCTORUL CONTRACTORS TO SEINO RESTANTS HE TO REPORTED FOR ADDRESS INCOLATION AND ADDRESS INCOLATION AND TO SEINO RESTANTS AND ADDRESS INCOLATION AND ADDRESS INCOLATION AND ADDRESS INCOLATION AND RESTANTS AND ADDRESS AND ADDRESS INCOLATION AND ADDRESS INCOLATION AND ADDRESS RESTANTS AND ADDRESS AND ADDRESS INCOLATION ADDRESS INCOLATION AND ADDRESS INCOLATION ADDRESS INCOLATI E. ABLE MANUFACTURERS: KINETICS/VIBRON, MASON. SANITAR NITARY PRINC. ALL EPPOSEs ADD'E GRADE SANTARY DRAINGE AND YENT PIPING SHALL BE CAST IRON, TYPE DW HARD DRAING COPER THEE WITH CAST BAKAS SOLGEN TITINGS USES YON, LAD PRES SOLDERI, GK XRY HARD DRAING COPERATION OF SUBDIAL TO AN AND AND A COMPARISON OF THE SANGE AND DRAING COMPARISON ERVISION OF THE SANGE AND A COMPARISON OF THE SANGE AND BE BLOW GRADE SANTARY & VENT PIPING A TITINGS TO CASA BIS 21 ALTEST EDITION. 11.1 NRS 14:107. CERTIFIES SALVEN BLOW FOR YOUR COMPARISON OF THE SANGE AND SALVENT CEMENT WELD FOR PIPIC A TITINGS TO CASA BIS 21 ALTEST EDITION. 12.1 NRS 14:107. CERTIFIES SALVEN BLOW FOR YOUR COMPARISON OF THE SALVENT AND AND SALVENT CEMENT WELD FOR PIC. MESTIC WATER PIPING (POTABLE): . TYPE "L" HARD DRAWN COPPER TUBE WITH WROUGHT COPPER SOLDER FITTINGS. SOLDER TO BE ND-FREE. ERMAL INSULATION FOR PIPING: 1. FIRE AND SMOKE RATING: IN ACCORDANCE WITH GANULC-S102. 22.1.1. MAXIMUM FLAME SPREAD RATING: 25 2.1.2. MAXIMUM SMOKE DEVELOPED RATING: 50 22.12. MIXIMUM SMOKE DEVELOPED ATING: 50 22. MINEAR INGER SERCIEND INJUES GLASS FIBIER, ROCK WOOL, AND SLAG WOOL 23.3. THERMAL CONDUCTIVITY ("Y FACTOR) NOT TO EXCEED SEFCOFED VALUES AT A"C MEAN TEMPERATURE WHEN TISTED IN ACCOMBANCE WITH STATU C 33.8. 22.4. TACC CODE AT FOR DHW: RIGID MOULDED MINERAL FIBRE WITHOUT FACTORY APPLIED WPOUR RETARDER AXARET. REFORCE AUGCT. 22.4.1. INVERSE FACTOR CONVLICISTIC 22.4.2. INVERSE FACTOR CONVLICISTIC 22.4.3. INVERSE THROATES 25 MM TWO CODE A FOR COW ROLD OULCEEN MREFUL FIBRE WITH FACTORY APPLED VAPOUR EXPLOSITE OF CONVLICISTIC AUGUST AUGUST AUGUST 21.5.1. INVERSE THE CONVLICISTIC AUGUST AUGUST 22.5.2. INVERSE THE CONVLICISTIC AUGUST AUGUST 23.5.1. INVERSE THE CONVLICISTIC AUGUST AUGUST AUGUST 23.5.1. INVERSE THE CONVLICISTIC AUGUST AUGUST AUGUST AUGUST AUGUST 24.5.1. INVERSE THE CONVLICISTIC AUGUST 22.6.2. INSULATORY PIPE INSULATION: 22.6.1. FOR USE WITH LAVATORIES WITH EXPOSED 22.6.2. INTERNAL RIB FOR THERMAL PROTECTION. 22.6.2. IMTERVINE ROLF THE RAME PROTECTION. 22.6.3. IMPACT-RESISTANT, ANTIMICROBIAL VINYL 22.6.4. COMPLIES WITH ASME A112.18.9-2001 22.6.5. ACCEPTABLE MATERIAL: TRUEBRO - LAV GUARD2. ROPANE GAS PIPING: 1. PIPE: STEEL PIPE TO ASTM A120 OR ASTM A53/A 53M-02, SCHEDULE 40, SEAMLESS AS FOLLOWS: 3.1.1. NPS 1/2 TO 2, SCREWED. 3.1.2. NPS 2 1/2 AND OVER, WELDED. XI. XINS 21 ZA MO UVER (NELDED). XITTINGS STELEP FEITTINGS, SCREWED, FLANGED OR WELDED: XI. MULLABLE RONG SOREWED, BAMEED CLASS 190. ZUMONS MULLBALE RONG MESS TO RONG, ROCHUND SAT, TO ASTIM A J7M-80. JOINTNE MATERIAL PLAURERIZZD LEDID PASTE VIVUSE SPROMOLA CLOBE APPROVED, LUBRICATED PLUG OR BALL TYPE. CONTRACTOR TO PROVIDE ALL PLATES, HANGERS, BRACKETS, WALL CARRIERS, CLEATS AND INTERIOR WALL SUPPORTS FOR BIGIDLY SUPPORTING PLUMBING PIPING SYSTEMS CONTRACTOR TO PROVIDE ALL ACCESS DOORSPANES NECESSARY FOR DEVICES REQUIRING SERVICING (I.E. CLEMOUTS, SUTOPRS, ETC) THAT MAY ER NORTALED BEHIND DRYNNLL CELLINGS OR WULLS. THE EXACT LOCATION OF SLOW TALLI SANLL, BE VERPEND I THE ACHTELTURA DRIVINGE SMORT OT TEIDEBRIES CONTRACTOR S ALSO EXPECTED TO NOTE WETHER THESE ACCESS DOORSPANELS ARE REQUIRED TO BE FRE-ANED OR RECESSED TYPE TO ACCET. THE COR THE RESULT FINGH. AESTIC HOT WATER TANK (DHWT): INDUCED DRAFT GAS WATER HEATER WITH FOAM INSULATION, MAGNESIUM ANCOE ROD, FLAMMABLE VAPOUR DETECTION SENSOR, MID PRESSURE RELEF VALVE. UNT SHALL EXCEED NAECA AND ASHRAE REQUIREMENTS FOR INERCY FEDICINCY. NELAVIREMENT SFOR ENERGY EFFICIENCY. 6.2. BREECHING: PVC OR CYVC CERTRIEID TO LIC-SSIS WITH WALL TERMINATION 6.3. TANK SHULHWE SUS CO-AVAILY: 36 MBH INPUT, WITH A RECOVERY RATE OF 36 GPH@80°F RISE. 6.4. ACCEPTABLE MATERIAL: RHEEM RUUD RECIRCULATION PLIME NELEXICULATION YUMP: 11. CAPACTIV BGM §10 - 15 FT W.C. 12. CONSTRUCTION: CLOSED-OUPLED, IN-LINE CENTRIFUGAL, ALL BRONZE CONSTRUCTION, STAINLESS STEEL, SHAFT, STAINLESS STEEL OR BRONZE SHAFT SLEEVE, RATED FOR POTABLE WATER USE. 13. MOTOR: 16 IP; 1201 (16. DRIIV-PROOF, WITH THERMAL OVERLOAD PROTECTION. 14. CONTRIV: VIA ADJUSTAT CONTRUE: VIA AQUASTAT 7.4.1. DOMESTIC WATER: PUMP ON AT 100°F, OFF AT 120°F, 7.4.2. HIGH TEMPERATURE: PUMP ON AT 130°F, OFF AT 140°F, 7.5. ACCEPTABLE MATERIAL: ARMSTRONG. GRUNDFOS. B&G. TACO THERMOSTATIC MIXING VALVE: 8.1. MASTER THERMOSTATIC MIXING VALVE: India Len Trebing and Len Marker SPECE. India Terrass With Tright Eduty Checkstops and Balanced poppet design. Temperature ADJUSTMENT FANGE OF 40F TO 160F, MINIMUM FLOW CONTROL TO ASSE 1017. ACCEPTABLE MATERIAL: POWERS MM31 PLIMBING SPECIALTES & ACCESSORES: 9.1. FLOOR DRANS: 9.1. FLOOR DRANS: 9.1. FD HEAVY OUTY FLOOR DRAN WITH FLASHING CLAMP STRAINER SUITABLE FOR SEAALESS SHEET FLOORING SYSTEM CLAST ROW BODY, ADJUSTRALE HEAD STRAILESS STELL STRAILER TRAP PROBLEM CONSCIENCT A CLAMPING COLLAR. 9.1.2. ACCEPTABLE MATERIAL: WATTS FD-200 SERIES OR APPROVED ALTERNATE AS ACCEPTED BY ENGINEER PRIOR TO TENDER CI INSINGS . JMBING FIXTURES TO BE FROM SINGLE MANUFACTURER SPECIALTY PLUMBING FIXTURES TO BE AS NOTED. THERMOSTATIC MIXING VALVE TO BE SUPPLIED AND INSTALLED ON ALL FIXTURES WITH HOT WATER CONNECTIONS THAT DO NOT PROVIDE THIS FEATURE INTERNALY. 10.4. REFER TO SCHEDULE. 10.5. ACCEPTABLE MATERIAL: AMERICAN STANDARD, CRANE, TOTO, ZURN AND AS INDICATED IN SCHEDULE. CI FANOLITS: LANULIS I. CLENIQUT PLUGS HEAVY CAST IRON MALE FERRILE WITH BRASS SCREWS AND THREADED BRASS OR BROIZE PLUG SEALING CALARED LEAD SEAT OR NEOPRENE CASKET. I. ACCESS CONERS 11.11. FLOOR ACCESS RECTANGLAR OR ROUND CAST RON BOOY AND FRAME WITH ADJUSTABLE SECURED NOCE, BROIZE TO OR CASTS BOX WITH ANALORE LUGS AND. 11.12. PLUGS BOLTED BRINZE WITH NEOPRENE GASKET. 11.12. PLUGS BOLTED BRINZE WITH NEOPRENE GASKET. 11.13. COVER FOR UNHINISHED CONCRETE FLOORS: CAST IRON OR NICKEL BRONZE, ROUND OR SQUARE, GASKET, WADAL-PROOF SCREWS. HVAC DUCTWORK: 1.1. MATERIAL VIZED STEEL WITH 700 DESIGNATION ZINC COATING LOCK EORMING OUALITY: TO ASTM Accel 41b. 1.1.2 THCKNESS TO MATCH SMACHA UNLESS OTHERWISE NOTED DUCTS TO BE FACTORY FABRICATED, SPIRAL WOUND WITH MATCHING FITTINGS AND SPECIALS TO SMACHA. MACIA. Sec. QLASPECTATION CLASS A. LOINGTUDINAL SEAMS, TRANSVERSE JOINTS, DUCT WALL PENETRATIONS NO COMECTIONS SHALL BE MADE ARTIGITI WITH SEAMNS TRANSVERSE JOINTS, DUCT WALL PENETRATIONS I.J. SEALANT, DURSESTANT, ROLLINGE MERGENAL, ROLLING VIEL 1.J. SEALANT, DURSESTANT, ROLLING MERGENAL, DURS OF MERGENAL 1.J. Z. MACEPTREL MERGINAL DURO DYNE 5.2. 1.J. Z. MACEPTREL MERGINAL DURO DYNE 5.2. 1.J. ACEPTREL MERGINAL DURO DYNE 5.2. 1.J. ACEPTREL MERGINAL DURO DYNE 5.2. 1.J. ACEPTREL MERGINAL DURO DYNE FT.2. MISULATION (MODOR) A 11-THORE (INDUCK) 11-THOCK MINERAL BLANKET INSULATION WITH FOIL BACKED KRAFT VAPOUR BARRIER, STAINLESS STEEL TES AND HANGER SLEEVER STELL TIES AND MANGER SLEEVES. 2. ACCEPTABLE WATERNALL MANGON ALLEY WRAP OR APPROVED ALTERNATE AS ACCEPTED BY ENSINEER PROF TO TENDER CLOSINGS. 3. ALLOUCTWORK TO BE INSULATED ABLE DUCTWORK: 1. SPIRAL WOUND, TRIPLE LOCK, FLEXIBLE ALLIMINUM WITH FACTORY APPLIED 25mm (1*) THICK GLASS FIBRE THERMAL INSULATION WITH VAPOUR BARRIER AND VINYL JACKET. HINS: THEHMANL REVLATION WITH VAPOUR BARRER AND VINYL JACKET. J. MAXIMUM LEGNET ISSOM (5) 3. ACCEPTABLE MATERIAL FLOMASTER TYPE TL-VT. MISERS AND SUPPORTS: 1. STRAM HANGERS: OF SAME MATERIAL AS DUCT, BUT NEXT SHEET METAL THICKNESS HEAVER THAN THEPP . 1. MAXIMUM SIZE DUCT SUPPORTED BY STRAP HANGER: 500mm.

- 1.0.1.1. MAXAMMM SUZE UUCI SUMPORTED BY STRAP HANGER: 500mm.
 16.2. HANGER CONFIGURATION: TO ASHRAE AND SMACNA.
 16.3. HANGERS: GALVANIZED STEEL ANDLE WITH GALVANIZED STEEL RODS TO ASHRAE AND SMACNA.
 16.4. UPREV HANGEN TYTIC.
- 1.6.4.1. FOR CONCRETE: MANUFACTURED CONCRETE INSERTS. 1.6.4.2. FOR STEEL JOIST: MANUFACTURED JOIST CLAMP.

16.1.3 FOR STELL EMAN, SMULFACTURED EMAN CLAMPS 5 SNEE BLUCE AND CANNED GOMERNE 17.1. HERICATE FORU SAME MITERIA AS DUCT, BUT ONE SHEET METAL THORNESS HEAVER. 17.2. SEE AND CONFIGANTION TO RECOMMENDATIONS OF SMUCHA, EXCEPT MAXIMUM HEIGHT 100mm. 17.3. LOCONIC QUADRINT. 17.4. INSEE AND DUTBE HYTLON IBLOE BERRINGS. 17.4. OKINEE RANGE OF SME WITERIAL AS ADJACENT DUCT, COMPLETE WITH ANKLE STOP. A COUNTER INSEATON I

1.6.4.3. FOR STEEL BEAMS: MANUFACTURED BEAM CLAMPS

- 18.1. ACOUSTIC INSULATION TO BE 25mm (1") THICK GLASS WOOL SLAB WITH GLASS VEIL, PINNED TO INTERIOR OF DUCTWORK.
- MILLES BUITVISERS: 1. STINDARD'S DIFFUSERS AND GRILLES TO BE FROM SINGLE MANUFACTURER 2. SPECULUTY GRILLES AND DEFUSERS TO BE AS NOTED 3. REFERT OS SOFEDULE 4. ACCEPTABLE MATERIAL E H. PRICE, TITUS, KRUEGER, METAL-AIR AND AS INDICATED IN SCHEDULE.
- ACCESS DOOR IN DUCTS:
- NON-INSULATED DUCTS: SANDWICH CONSTRUCTION OF SAME MATERIAL AS DUCT, ONE SHEET METAL THICKNESS HEAVIER, MINIMUM 0.6mm THICK COMPLETE WITH SHEET METAL ANGLE FRAME.
- HARDWARE: 3.4.1. UP to 300x300 mm: TWO SASH LOCKS COMPLETE WITH SAFETY (3.4.2. 301 TO 450 mm: FOUR SASH LOCKS COMPLETE WITH SAFETY (H 3.4.3. 451 TO 10 mm: FIANO HINGE AND MINUMI TWO SACH LOCKS 3.4.4. DOOR OVER 1000 mm: PIANO HINGE AND TWO HANDLES OPERAB
- 4. TESTING, ADJUSTING AND BALANCING (TAB)
- CEREAR, REQUIREMENTS
 LI, DURING NA, ALLERATED SYSTEM COMPONENTS SHALL BE IN FALL OPERATION. FAN AND PUMP ROTATION, MOTOR LOADS AND EQUIPMENT WHAT WILL BE CHECKED AND CORRECTED AS MECISIANY REPORT PROCEEDING WITH TAIL BET CONTROL AND (RE RELCCA FOR WATS OF SYSTEMS FOR TEST AND BULANCE WORK.
 LI, CONDRING THE REPORT OF MUST AND ADDRESS OF MUST SYSTEMS FOR TEST AND BULANCE WORK.
 LI, CONDRING THE REPORT OF MUST ADDRESS OF THE PROLECT PROID TO PARTICIPATION FOR THE APPLICATION OF MUST ADDRESS OF THE PROLECT PROID TO PARTICIPATION FAIL AND ADDRESS OF THE PROLECT PROLECT PARTICIPATION FAIL AND ADDRESS OF THE PROLECT
- 4.2. PURPOS

- 4.2.4. BALANCE SYSTEMS AND EQUIPMENT TO REGULATE FLOW RATES TO MATCH LOAD REQUIREMENTS OVER FULL OPERATING RANGES.
- ERA ONE OR NORE OF THE APPLICABLE AARC PUBLICATIONS, SUPPLEMENTED BY ASHRAE HANDBOOK YMAC APPLICATIONS CAMPTER 38, AND REQUIREMENTS STATED HEREIN SAULUE THE BASS FOR HANNINE, ROPOLIESE AND REPORTS I. I. I. ON RATE TO LORANGES THE FOLLOWING TOLERANCES ARE ALLOWED. FOR TOLERANCES NOT MININUED HEREIN FOLLOW ASHRAE INMEDIOC YMAC APPLICATIONS: COMPTER 38, AS A GUIDELINE. ART HERE RISSTANCE URING TESTS. ARTIFICALLY MARCEED I HECESSARY. SHALL BE AT LEAST 90% OF FINAL VALUES FOR THE ATLEN AND ATTENT LEDR.
- 44.1. GRLLES AND DIFFUSERS: MINUS 2% TO PLUS 10%. 44.2. FANS, AIR HANDLERS AND PUMPS: MINUS 5% TO PLUS 10%.
- ITTALS: PROVIDE REPORT IN AABC FORMAT FOR ENGINEER'S REVIEW AND APPROVA PROVIDE REPORT IN AME FORMAT FOR BURNEERS REVIEW AND APPROVAL.
 LTIETERBURKE AND INILAT REPORTS COVERING FLOW BALANCES AND ADJUSTMENTS, PERFORMACE TESTS VIBRATION TESTS AND SQUIND TESTS.
 INCLUDE IN FINAL REPORTS UNCORRECTED INSTALLATION DEFICIENCES NOTED JURING TAB AND APPLICABLE DORLANDOR COMBINIS ON TEST RESULTS THAT OFFER FROM DESIGN

- JRNENT. 1. PLUGS: 46.1.1. PROVIDE PROPER PITOT TUBE OPENING (DURO-DYNE TYPE (P-4) TO SEAL HOLES DRILLED IN DUCTWORK FOR TEST PURPOSE. 4.6.2. INSULATION REPAIR MATERIAL: 4.6.2.1. PROVIDE FOR REPAIR OF INSULATION REMOVED OR DAMAGED DURING TAB WORK
- IAKEUP AIR UNITS 1. GENERAL DESCRIPTION
- 1. GREWAL DESCRIPTION.
 1. CONFIGURATION OF ANY ANY ANY ADVANCES OF EXPANSION OF DATA STATEMENT, STATEMENT ANY ADVANCES ANY AD
- DUIT TEST REPORT SAULLES LUPPLED WITH THE LENT IN THE SERVICE COMPARTMENTS CONSTRUCTION 2.1. ALL CARINET WULLS, ACCESS DOORS, AND ROOF SHULL EF FARRICATED OF DOUBLE WULL INFOCT RESISTANT, RED DO'L'INSTETHUNG MAN PRAISE SITUATIVAULE OF 13. 2.2. DOUBLE WULL INTI-GO GALVINIZED STEEL, CHI ROTH SIDES AND A THERPAU, BECAK 2.3. DOUBLE WULL INTI-GO GALVINIZED STEEL, CHI ROTH SIDES AND A THERPAU, BECAK 2.4. DOUBLE WULL INTI-GO GALVINIZED STEEL, CHI ROTH SIDES AND A THERPAU, BECAK 2.5. ADD CHI THERPAUNES STATUS THERE AND RETINENT STANDARD 34030C ADDITIONISTI SERLING SAULL ER HOLDED ENTWEREN PARKEL SAN DE FINEEN ACCESS DOORS AND OPENINGS TO RECOLCE AND ELBANCE SPRIAG AND RELECTION CONCUMPLET DRAINING STORES TO RECOLCE AND RELEXANCE SPRIAG AND RELECTION. CONCUMPLET DRAINING STORES AND RECOLCE AND READ AND RESIST COLLING STATUS AND RETINENT AND ADDITIONAL STEEL SHALL HWITE RAIN REREA VOESMINGS ADDIVENTIONES AND RETINEND ADDITIONAL STEEL SHALL HWITE RAIN REREA VOESMINGS ADDIVENTIONES AND RETINESSORE, AND ELECTRONOMENT SHALL BE CARADILE STEEL DRAINED AND RESISTERS, COMPRESSORE, AND ELECTRONOMENT REVEALS AND RETINE AND RETINENT AND A THE ATTEMPORY ON REPORTSONES, MAIL ELECTRONOMENT REVEALS AND REVEALS ADDITIONES AND REPORTSONES AND REVEALS STEEL CONCERNOME REVEALS AND REVEALS AND REVEALS STEEL FANGE INVERSIS SHALL BE REVOLUCED ON THE DOORS. 2.2. UNIT SHALL BE CARADILE CONDUCTION AND ALL REVEALS STEEL FANGE INVERSIS SHALL BE REVOLUCED ON THE BOORS AND AS ALL STATUS AND ADDITIONS AND REVEALS TO AND AND MERICE CONCERNOME SHALL BE CARADILA TO A ALL STATUS AND ADDITIONS AND REVEALS SHALL BE REVOLUCED ON THE BOORS AND AS ALL STATUS AND ADDITIONS AND ADDITIONS AND REVEALS AND ALL DERING AND ADDITIONS AND

- 3. ELECTRICAL 5.3.1. UNIT SHALL BE PROVIDED WITH NON-FUSED DISCONNECT.

 - L I WAT SHULL BE REPORTED WIT MAR FUED DISCOMENT.

 WAT SHULL HER REPORTED WIT MAR FUEL DISCOMENT.
 ARROUGE HAT FUMP SHULL INCLUE A DEFINIST CHILL TO PREVENT FROST ACCUMULATION ON THE OUTDOOR COLLINEINE HET FUEL HATING OFBITION DISFAST CHILL ESNI WERN UNDOOR COLLINEINE HET FUEL HATING OFBITION DISFAST CHILL ESNI WERN UNDOOR COLLINEINE HET FUEL HATING OFBITION DISFAST CHILL ESNI HER HATING OF THE HATING HATING THE REAL HATING OFBITION HER HATING OF HATING HATING HATING HATING DISFAST THEM HATING HATING HATING HATING HATING COMPESSION SHALL BERRIZE, REVERTION WILL SHALL ESNIL BE FACTOR MISTING HATING HAT
- VICENSE, THE VICENSE IS MURE INVE IN VICENCES OF VICENSE OF VICENSE. SPPT Y ANS 5.4.1. UNT SHALL INCLUDE DIRECT DRIVE, UNHOUSED, BACKWARD CURVED, PLENUM SUPPLY FANS. 5.4.2. BUCKRES MONTORS SHALLE OF VIMICALLY BALANCE AND MOUNTED ON RUBBER ISOLATORS. 5.4.3. MOTORS SHALL INCLUDE SHAFT GROUNDING. COQUING COLIS.
- COOLINE COLS S.1. EVPORATOR COLS SHALL BE DESIGNED FOR USE WITH R-10A REFRIGERANT AND CONSTRUCTED OF COPPER TUBES WITH ALUMINAL FAS INC-HANCLA' BORDED TO THE TUBES AND GALVANZED STELE IDO CANAGES TRUESSION ANL ILE SAR WINK REPRED. 5.2. COLS SHALL BE HYDRIGEN ON RELIAULE INF HISTERIE 5.3. COLS SHALL BE HYDRIGEN ON RELIAULE DE PANSION VALVES.

- ORY CHARGED WITH R-410A REEDIGERANT
- LINT SWILL EF ACTORY CHARGED WITH A "CHARGE DENT.
 LOUT SWILL EF ACTORY CHARGED WITH A "CHARGE DENT.
 LOUPERSONG SWILL ES CADIT, UNY WITH TERMAN, CHARGE DATE TO ROBALE SUBMECT SAMPLER TRANSMERT FROM THE CHARGE DATE OF CORRECT SAMPLE TO THE CHARGE DATE OF CORRECT SAMPLE DATE OF CORRECT SAMPLE TO THE CHARGE DATE OF CORRECT SAMPLE DATE OF CORRECT DATE RS SHALL BE SCROLL TYPE WITH THERMAL OVERLOAD PROTECTION AND CARRY A 5 RORATED WARRANTY, FROM THE DATE OF ORIGINAL EQUIPMENT SHIPMENT FROM THE

- FLOW CONTROL 5.6.6. EACH REPRODERTION ORCULT SWALL BE EQUIPPED WITH AUTOMATIC RESET LOW PRESSURE AND MANUAL RESET HIGH PRESSURE REFROGENANT SAFETY CONTROLS, SCHRADER TYPE SERVICE HITTINGS ON BOTH THE HIGH PRESSURE AND LOW PRESSURE SIDES AND A FACTORY INSTALLED LIQUID LINE HITER DRIVES.
- LIQUID LINE FILTER DRIERS. 5.6.7. UNIT SHALL INCLUDE A VARIABLE CAPACITY SCROLL COMPRESSOR ON THE REFRIGERATION CIRCUIT WHICH SHALL BE CAPABLE OF MODULATION FROM 10-100% OF ITS CAPACITY.

RATION CIRCUIT SHALL BE PROVIDED WITH HOT GAS REHEAT COIL, MODULATING VALVES NIC CONTROLLER, SUPPLY AIR TEMPERATURE SENSIOR AND A CONTROL SIGNAL TEMANA ELECTIONIC CONTRULIES, SUPPLY AR TEMERATINE SENSION AND A CONTROL SIGNL TERMIN WICH ALLOW TEN INT HOWE A SEMINIPATION MODE OF DESTION, WHICH INLIDES SUPPLY AR TEMERATURE CONTROL TO PREVENT SUPPLY AR TEMPERATURE SINKS AND OVERCOULD OF THE SPACE. 58. UNI SHALL BE CONFURED AS A ANAR SOURCE HEAT PLANP REFRESENTION CREDUIT SHALL BE CONTROL WICH AND A CONTROL AND A SUPPLY AND A SUPPLY AND A SUPPLY REPRESENT ON A SUPPLY AND A SUPPLY AND A SUPPLY AND A SUPPLY REPRESENT ON A SUPPLY AND A SUPPLY AND A SUPPLY AND A SUPPLY REPRESENT ON A SUPPLY AND A SUPPLY AND A SUPPLY AND A SUPPLY REPRESENT ON A SUPPLY AND 2.5. SLEEVES 2.5.1. GENERAL: INSTALL WHERE PIPES ASSEMBLIES, AND AS INDICATED

INSULATION.

2.5.6. SEALING 2.5.6.1.

ISSIONING:

FINISHED SURFACE. 2.5.5.2. OTHER FLOORS: TERMINATE 25 MM ABOVE FINISHED FLOOR.

CONCRETE, MASONRY WALLS, CONCRETE FLOORS ON GRADE: TERMINATE FLUSH WITH EINISHED SUDFACE

2.5.5.3. BEFORE INSTALLATION, PAINT EXPOSED EXTERIOR SURFACES WITH HEAVY APPLICATION OF ZINC-RICH PAINT TO CAN/CGSB-1.181.

2: FOUNDATION WALLS AND BELOW GRADE FLOORS: FIRE RETARDANT, WATER NON-HARDENING MASTIC.

NON-HARDENING MAXIM.
 25.62. LISE/WORKER
 25.62.1. PROVIDE SPACE FOR PIRESTORPING.
 26.62.3. SERVICE NOT AN INTEGRATY.
 25.62.3. SERVICE NOT AN INTEGRATY.
 25.62.4. ENSURE NO CONTACT BETWEEN COOPER PIPE OR TUBE AND SLEEVE
 25.62.4. ENSURE NO CONTACT BETWEEN COOPER PIPE OR TUBE AND SLEEVE

ESCUTCHEORS 2.6.1. INSTALL ON PIPES PASSING THROUGH WALLS, PARTITIONS, FLOORS, AND CEILINGS IN FINISHED AREAS.

4.2. In our JLL UNIVES PROSING THROUGH WALLS, PARTITIONS, FLOORS, AND CELLINGS IN FINISHED
 AREAS
 22. OUDSTRUCTION: ONE PRECET YME WITH SET SCREWNS
 22.9.1. ONDER ON UNIVER LIVE DRANS OR TYPE 20 STANLESS STEEL
 23.9.1. SCREW CAN UNIVER LIVE AND AND AND AND AND AND AND AND AND
 22.9.1. SCREWNS
 22.9.1.

2.7.3 INSULATED PIPES AND DUCTS: ENSURE INTEGRITY OF INSULATION AND VAPOUR BARRIERS.

THE CONTRACTOR SHALL PROVIDE COMBISSIONIC SERVICES AS A MINIMUM AS FOLLOWS. FURTHER COMMISSIONIC PROCESSING REQUIRED IN MOVIOUR COMPACT MANAFACTURER'S SHALL BE FOLLOWED 1. VERY CONTRAC. SYSTEM 1.1. VERY CONTRAC. SYSTEM 1.1. CHARGE SPACE THEREFORT THE CONTRAM CONTRAM IN MISSIONACE.

CHANGE SYSTEM STATUS AT THEMISTRY OUVER THE UNIT IS EXTINGLE. CHANGE SYSTEM STATUS AT THEMISTRY OCCUPED MODE AND VERITY THAT OCCUPED SEQUENCE OF OPERATION IS FOLLOWED. VERITY OCCUPED MODE MOVERNOT VERITY THAT UNCOL MODE SEQUENCE OF OPERATION IS FOLLOWED. VERITY UNCOCUPIED MODE THE VERITY THAT UNCOL SEPTONT.

I DEMONSTRATION AND OPERATOR TRAINING OF COMPLETE SYSTEM, USING THE COMPLETED IN AND MAINTENANCE MANUAL. TRAINING TO IDENTIFY:

LICATIONS OF ALL EQUIPMENT ISOLATION VALVES AND POWER SOURCES AND PROCEDURES FOR SHUTDOWN AND RE-ENERGIZING EQUIPMENT.

1.1.1. LL OPERATOR PASSWORDS FOR EQUIPMENT WITH ELECTRONIC SCREENS SUCH AS BOILERS AND VPDS.

SELFORM AR BALANCING. PROVIDE TAB REPORT. PROVIDE ALL STATUP, INSPECTION, VERIFICATION REPORTS IN THE OPERA MANUAL.

1.4.5. LOCATION OF SPARE PARTS. 14.3. LOCATION OF SPARE PARTS.
1.4.6. LOCATION OF VALVE CHART AND SYSTEM SCHEMATICS.

RETURN TO AGENDA

MECHANICAL SPECIFICATIONS

- 3 DOLED CONDENSER FANS SHALL BE A VERTICAL DISCHARGE. AXIAL FLOW. DIRECT DRIVI 5.7.2
- PANS. HEAT PUMP OUTDOOR COLL SHALL BE CONSTRUCTED OF COPPER TUBES WITH ALUMINUM FINS MECHANICALLY BONDED TO THE TUBES AND ALUMINUM FIND CASINGS. FIN DESIGN SHALL BE SINE WARE RIPPLED.
- WAYE RIPPLID. 57.1 COLS SHALL BE EXSISTED FOR A MINIMUM OF 19°F OF REFRIGERANT SUB-COOLING. 57.4 COLS SHALL BE MONBOORI OF HELIAM LEAN TESTED. 57.5 CONTENENT AND SHALL BE VIOLENDEN WARAUE ESPECIFICIO CONSECRIT MAD PRESSURE MODULATE. THE FINA MRT HON TO MANTAIN HED PRESSURE AT ACCEPTIBLE LEVERS. OCCUMP OF BRATILIS ALL BE ALLOND TO DOINT DIS Y MITHIADURAL COMPRESSION CONCOURT.
- HEATING STAINLESS STEEL HEAT EXCHANGER FURNACE SHALL CARRY A 25 YEAR NON-PRORATED WARRANTY, FROM THE DATE OF ORIGINAL EQUIPMENT SHIPMENT FROM THE FACTORY. IRNACE SHALL CONSIST OF STAILESS STEEL HEAT EXCHANGERS WITH MULTIPLE VITIES, AN INDUCED DRAFT BLOWER AND AN ELECTRONIC PRESSURE SWITCH TO LOCKOUT IS VALVE UNTIL THE COMBUSTION CHAMBER IS PURGED AND COMBUSTION AIRFLOW IS
- ESTABLISHED. 3. TURINCE SHALL INCLUEE A GAS CINITION SYSTEM CONSISTING OF AN ELECTRONIC GATER TO A PLOT SYSTEM. WINCH WILL BE CONTINUOUS WISH THE HEATER IS OPERATING. BUT WILL SHUT OFF THE PLOT WISH LINELIDE A SINGLE GAS CONSECTION ANY CAS SUPPLY PIPME ENTRACES IN THE UNIT EXECTION INVOLOSI THE CONSECTION ANY CAS SUPPLY PIPME ENTRACES IN THE UNIT EXECTION INVOLOSI THE CONSECTION ANY CAS SUPPLY PIPME ENTRACES IN THE UNIT EXECTION INVOLOSI THE CONSECTION ANY CAS SUPPLY PIPME ENTRALES IN 15. UNIT SHALL INCLUEE AN ULL PAS FURMACE WITH 4 STAGES OF CAPACITY. THER
- FILTING 51. UNIT SHALL INCLUDE 4 INCH THICK, PLEATED PANEL FILTERS WITH AN ASHRAE VERY RATING C UNIT SHALL INCLUDE A LOUIS COLL UNIT SHALL ALSO INCLUDE 2 ANCH THICK, PLEATED PANEL E FILTERS WITH AN ASHRAE ILERS RATING OF 8, UPERSAMO F THE 4 INCH STANDARD FILTERS. 532. UNIT SHALL INCLUDE A LOGGED FILTER SWITCH.
- SIZE ARECOMMERE SIZE ARECOMMERE IN TSULL DUCE 9 10% ECONOMIZER CONSISTING OF A MOTOR OPERATED DUTSIDE AR DAMPER AND RETURA AR DAMPER ASSEMILY CONSTRUCTED OF EXTRUCER ALUMIAN, INCLOR ORE, AIRFOLL BACKS WITH RUIKER ESOE SIXE AND ALUMIANE MOTOR SIXE, DAMPERATED DUCE ARE DUCE AND ALUMIAN AND ALUMIAN AND ALUMIAN AND ALUMIAN PRESSING ENFERDENCE AND ALUMIAN ASSEMILY SIXE ALE CLASS ZANCA CENTFED, IN CONSTRUCTION OF THE AND ALUMIAN SIX DAMPERS SIXEL IS CLASS ZANCA CONTROLLED IS SYMPL RETURN ACTUATOR UNIT SIXEL INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR UNIT SIXEL INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXEL INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH THAN ACTUATOR. UNIT SIXELI INCLURE OUTSIDE AR OPENING BIRD SIZERLI AND OUTSIDE ARTHOUGH ACTUATOR.
- NITRUE STATUES 11. FACTORY INSTALLED AND FACTORY PROVIDED UNIT CONTROLLER SHALL BE CAPABLE OF CONTROLLING ALL FEATURES AND OFFICIAS OF THE UNIT. CONTROLLER SHALL BE FACTORY NITRULE DI IN THE UNIT CONTROL COMPARITMENT AND FACTORY TISSED. CONTROLLER SHALL SHALES THE INSTALLED AND FACTORY PROVIDED UNIT CONTROLLER SHALE AND AND SERIOR STATUS VERWIS, UNIT ALARM VERMO, AND COLPANO'S SCHEDLING ANNLABLE WITHOUT OFEDERACIEC ON A BALLIDOR MANAGEMENT STSTEL 12. CONTROLLER SHALL HAVE AN URGARID GLOCK AND CALEDRAR FUNCTIONS THAT ALLOW FOR COLPANO'S SCHEDUNING.
- OCCUPANCY SCHEDUING 5.11.3. CONTROLIES MALI NOLLE KOMVOLATILE MEMORY TO RETAIN ALL PROGRAMMED VALUES WITHOUT THE USE OF A BATTERY, IN THE EVENT OF A POWER FAILURE. 5.11.4. MAREUP ARE UNDER SHALL MODULATE ON CONSTRUCT ARE LOW TO MEET VENTLATION OUTSIDE ARE LOADS, COOLING CHE MOCOLINE TE MASE DO IN SIPPLY AIR TEMPERATURE
- OUTSEE AR LODGS COULSE CAPACITY SHULL MORLIATE ASED ON SIPPY AR TEMERATURE 11.51 WITH HOUSE THAT OF TO AS REFERSE UNLT SHULL MORLIATE ASED ON SIPPY AR TEMERATURE EFFICIENTLY AF DOSINGL. TO MEET OUTSIDE AR HUMDITY LODGS AN OPREVENT SUPPLY AR TEMERATURES SWIGS AND ORDEROUGH OF THE SPACE 5.11. BUT SHULL MODULAT EMBEDID SHIELD AND SHIELD AND ADDITIONE AT LODGS HEATING CAPACITY SHULL MOUTSIDE AND ADDITIONE AT UNLTAND ADDITIONE 5.11. BUT COMPERATIONS ETTOONT AUDITIONE SHIELD AS THAT AND ADDITIONE 5.11. BUT COMPERATIONS ETTOONT AUDITIONE SHIELD AS THAT AND ADDITIONE 5.11. BUT COMPERATIONS AND THOSE AND ADDITIONED AND ADDITIONE 5.11. BUT COMPERATIONS AND ADDITIONED AND ADDITIONED AND ADDITIONE MODULE WITH COMPERATIONS AND ADDITIONED AND ADDITIONED AND ADDITIONED COMPERATION ADDITIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED COMPERATIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED COMPERATIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED COMPERATIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED COMPERATIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED COMPERATIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED AND ADDITIONED COMPERATIONED AND ADDITIONED AN

- UNIT SHALL BE PROVIDED WITH A SAFETY SHUTDOWN TERMINAL BLOCK FOR FIELD INSTALLATION OF A SMOKE DETECTOR WHICH SHUTS OFF THE UNIT'S CONTROL CIRCUIT. 5 12 2
- OF A SMOKE DEFECTION WITH THE WITH SUMMER AND ADDRESS TO AND ANY BOTTOM WITH THE UNB TO ADDRESS AND ANY BOTTOM WITH THE CURB TOP ANY BOTTOM WITH TOP ANY BOTTOM WITH TOP ANY BOTTOM WITH TOP ANY BOTTOM WITH THE CURB TOP ANY BOTTOM WITH THE CURB TOP ANY BOTTOM WITH TOP ANY BOTTOM ANY BOTTOM WITH TOP ANY BOTTOM ANY
- 5 1222 CURBS MILL BE FURNISHED FULLY ASSEMBLED. 5 1222. CURBS MILL BE FURNISHED FULLY ASSEMBLED. 5 1222. CURBS MILL BE ESEMICALLY DESIGNED FOR THE APPLICATION. JOB SPECIFIC DRAWINGS 5 1222. CURBS MILL BE ESEMICALLY DESIGNED FOR THE APPLICATION. JOB SPECIFIC DRAWINGS 5 137479-02 ADD SIGNED BY A PROFESSIONAL ENGINEER WILL BE INCLUDED AS PART OF THE SUBMITTAL PACKAGE.

HEAT RECOVERY VENTILATOR

- CABINET CONSTRUCTED OF 0.050 PRE-PAINTED WHITE ALUMINUM. FULLY INSULATED WITH 25mm FOIL FACED Description Statistical Control of the Control of t

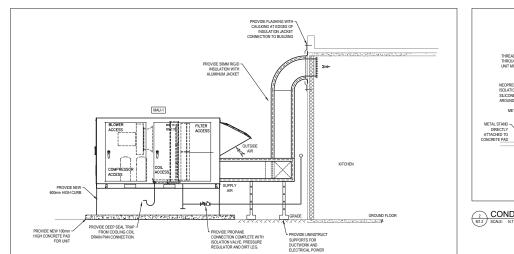
- DRAIN AND ANTI-VIBRATIO POLYESTER AIR FILTERS
- DOGTAL CONTROLS INCLUDED OFFISTANDBYLOIHI
 15 YEAR WARRANTY ON PLASTIC CORE. 2 YEAR WARRANTY ON UNIT MATERIALS AND WORKMANSHIF
- EXECUTION REQUIREMENTS:

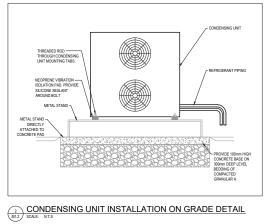
- INSTALLATION: COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, INCLUDING PRODUCT TECHNICAL BULLETINS, HANDLING, STORAGE AND INSTALLATION INSTRUCTIONS, AND DATASHEETS.
- PIPING SYSTEMS
- CONNECTIONS TO EQUIPMENT 2.1.1. USE VALVES AND EITHER UNIONS OR FLANGES FOR ISOLATION AND EASE OF MAINTEN ASSEMELY. ASSEMBLT. 2.1.2. USE DOUBLE SWING JOINTS WHEN EQUIPMENT MOUNTED ON VIBRATION ISOLATION AND WHEN PIPING SUBJECT TO MOVEMENT.
- ECLEARANCE AROUND SYSTEMS, EQUIPMENT AND COMPONENTS FOR OB-ION, INSPECTION, SERVICING, MAINTENANCE AND AS RECOMMENDED BY N 2.2.2. PROVIDE SPACE FOR DISASSEMBLY, REMOVAL OF EQUIPMENT AND COMPONENTS AS RECOMMENDED BY MANUFACTURER WITHOUT INTERRUPTING OPERATION OF OTHER SYSTEM, EQUIPMENT, COMPONENTS.
- EUDIMENT, COMPARINS. DIELECTRIC COUPLINGS 23.1. GENERAL: COMPARIEUR WITH SYSTEM, TO SUIT PRESSURE RATING OF SYS 23.2. LOCATIONS. WHERE DISSIMILAR METALS ARE JOINED. 23.3. NFS 2 AND UNDER: SIGULATING MUNICIS OF BRONZE VIALVES. 23.4. O'DER NFS 2. ISOLATING FLANGES. DIREMINER WISTLATION.

- YENDER HSTULATON 19 SORRED OTTORSJONTD WITH TEFLON TAPE 2. PROTECT DEVENDES AGNART ENTRY OF FOREIGN METRIAL 3. INSTALL TO SOLVE DEUMENT AND AUXIM NERVIDAL WITHOUT INTERRIPTING OPERATION OF OTHER EQUIPMENT OR SYSTEMS. 4. ASSENUEL PRIVE DISKI OFTTINGS MAY EE USED ON MANS IF BRANCH LINE IS NO LARGER THAN HUF 322 OF MAN.
- 2.4.6. INSTALL E
- 5/22 OF MAN. 1241. HOLE SUM (IN DELINA DE SAM MINI TO MAINTAIN FULL INSDE DIAMETER OF BRANCH 2415. HOLE SUM (IN DELINA DESIGN MINI TO MAINTAIN FULL INSDE DIAMETER OF BRANCH IN INSTALL DEPOSED PRPORE DIAMENT, RECTANDUAR CLEANOUTS AND SIMULAR ITEMS PARALLEL OF REPERVICUAL TO BULLIONEL INES. IN ISTALL CONCEALED PREVIORY TO MINIMIZE FURRING SPACE, MAXIMIZE HEADROOM, CONSERVE SPACE. 247
- SLOPE PIPING, EXCEPT WHERE INDICATED, IN DIRECTION OF FLOW FOR POSITIVE DRAINAGE AND 248 ENTING. ISTALL, EXCEPT WHERE INDICATED, TO PERMIT SEPARATE THERMAL INSULATION OF EACH PIPE. ANNA, SALARY I WITE: NUALATEL TO PERMIT SPRAATE THERMAL INSLATION OF EACH PPE.
 10 GOUP PRIVM WHERVER POSSE ALE AND A INDICATEL
 11. BEAM PPES, REMOVE SCALE AND OTHER FOREION MATERIAL REFORE ASSEMILY
 12. USE ECONTRO EQUICATES AF PER SEC AVMACES TO ENSURE POSITIVE DRAINAGE AND VENTING.
 13. PROVINE FOR THERMAL EXPANSION AS INDICATED.
 14. WILFER-

4. VAURES 24.41. INST.LI NACCESSBLE LICATIONS 24.42. PERMORE INTERIOR PRIVIS BEFORE SOLDERING. 24.43. INSTALL WITH STEINS ABOVE HORIZONTAL POSITION UNLESS INDICATED. 24.44.4. VAURES SOLSBLE FOR MINIETIMANCE WITHOUT REMOVING ADJACENT PIPI 24.45. JUSE BALL VAURES AT BRANCH TARE-OFFS FOR ISOLATING PURPOSES EXCEPT SPECIFIED.

	CLIE	NT LOGO:		~	22
			но	RTON 4	20
GENERAL NOTES				VNSHIP	
ALL WORK SHALL CONFORM TO APPLICABLE CODES SUCH AS: 1.1. LATEST EDITION OF THE ONTARIO BUILDING CODE (OBC) 1.2. MFPA (IFIR PROTECTION)				\wedge	
1.3. SMACNA (DUCTWORK) 1.4. ULC & CSAICAN INSTRUCTIONS & REQUIREMENTS					
1.5. INSTRUCTIONS TO BIDDERS			4	4	
CONTRACTORS MUST COMPLY WITH LOOAL BY LAWS, CANADIAN CONSTRUCTION SAFETY CODE, AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION IN CASE OF A CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS HALAPPLY.			~		
CONTRACTORS SHALL BE RESPONSIBLE FOR ALL APPLICABLE FEES, PERMITS, INSPECTIONS BY JURISDICTION HAVING	PRO	JECT ENGINE	IR:		
AUTHORITY, AND TAXES RELATING TO THE MECHANICAL SCOPE OF WORK.		_			
TENDER RRICES TO BE BASED ON EQUIPMENT AS SPECIFIED. ANY REQUESTS FOR ALTERNATE EQUIPMENT MUST BE MADE AT LEAST RVE (5) WORKING DAYS PRIOR TO TENDER CLOSE. ACCEPTANCE ACTIONATORY MILL BE MADE BY WRITEN ADDENDUM. REQUESTS FOR ALTERNATE EQUIPMENT WILL NOT BE CONSIDERED AFTER TENDER		15		Consultants PLANNERS · PROJECT MA	
CLOSE. ENGINEER RESERVES THE RIGHT TO REJECT ANY SHOP DRAWINGS FOR EQUIPMENT NOT APPROVED DURING TENDER PROCESS. ACCEPTANCE OF ALTERNATIVES DOES NOT ABSOLUTE TINS CONTRACTOR FROM MANING ALL NECESSARY ADJUSTIONTS TO THE VIRGE OF OTHER TARGES INCURRED BY SELECTION OF A LITERNATIVE OUTPANT OR				N DRIVE, SUITE 410, OTTAWA, ON K2 8-7800 FAX: 613-828-2600	
NECESSARY ADJUSTMENTS TO THE WORK OF OTHER TRADES INCURRED BY SELECTION OF ALTERNATIVE EQUIPMENT OR MATERIALS. SUCH ADJUSTMENTS ARE TO BE MADE AT NO ADDITIONAL COST.			Jp2g Project # :		
CONTRACTORS SHALL PROVIDE ONE COPY OF CLEARLY IDENTIFIED, PROJECT SPECIFIC. SHOP DRAWINGS IN POF FORMAT FOR ALL FIXTURES, EQUIPMENT, AND SYSTEMS FOR APPROVAL BEFORE ORDERING. EQUIPMENT, DEVICES, AND	NOT	50.			
FIXTURES SHALL BE SUPPLIED WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE WORKING INSTALLATION. CONTRACTORS WILL REVENUES WEINDER BEINGEN TO SUBMISSION THIS INICITIATING THEY HAVE ENTERDINED AND		THE CONTRA		Y RESPONSIBLE FOR ISSUES/PRO	
VERIFIED THAT ALL MATERIALS, CATALOG NUMBERS, PERFORMANCE, SIZES, AVAILABLE SPACE, FIELD CONDITIONS, ETC., MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SHOP DRAWINGS MUST CLEARLY INDICATE ANY DEVIATION		SPECIFICATION	DCCUR AS A RESULT O DNS AND THE DESIGN I	F A FAILURE TO FOLLOW THESE PL NTENT THEY CONVEY.	ANS,
FROM DESIGN "BASE" SPECIFICATIONS. ALL MATERIALS USED MUST BE NEW, CLEAN, AND FREE FROM DEFECTS. SUBMIT ONE (1) SET OF DRAWING PRINTS SHOWING ACCURATE AS-BUILTS CONDITION OF THE MECHANICAL	2			RS, OMISSIONS, INCONSISTENCIES TRACT DOCUMENTS, THE CONTRA	
Obani o dia (1) dei di divinito interno di optimo addivito addivito di obanico divino di ante inclusione di alla Installazione includeei vitti ne estanziscio nato mantenance manuali, for encienzes Approval and make corrections as directed. Contractors shall mark all changes as work progresses		SEEK CLARIF	ICATION FROM JP2G. /	NY COSTS OR SCHEDULE DELAYS JP2G FOR DIRECTION SHALL BE S	WHICH
AND AS CHANGES OCCUR ON AN AS BUILTS SET OF CONTRACT DOCUMENTS. DRAWING SET SHALL BE AVAILABLE FOR REFERENCE PURPOSES AND INSPECTION AT ALL TIMES. EACH DRAWING SHALL BE IDENTIFIED IN TITLE BLOCK ON RIGHT		RESPONSIBIL	ITY OF THE CONTRACT	OR.	
HAND SIDE "ASBUILTS DRAWINGS" AND SHOULD INCLUDES SIGNATURE OF CONTRACTOR, CONTRACTORS COMPANY NAME AND DATE.	3.	INSTRUMENT	OF SERVICE THAT IS F	F JP2G CONSULTANTS INC. AND IS ROTECTED BY COPYRIGHT. NO US	E OF THIS
SUBMIT A DRAFT ELECTRONIC FORMAT (PDF) COPY OF OPERATION AND MAINTENANCE MANUAL TO ENGINEER FOR APPROVAL 08M MANUAL SHALL INCLUDE, BUT NOT LIMITED TO:		CONSULTAN	IS INC.	HE EXPRESS WRITTEN CONSENT (
7.1. TITLE PAGE 7.2. LETTERS OF WARRANTIES FROM DATE OF SUBSTANTIAL COMPLETION.	4	DO NOT SCAL POSSIBLE TR	E DRAWINGS. REFER / ADE INTERFERENCE/C	INY DIMENSIONAL CLARIFICATION ONFLICTS TO JP2G FOR CLARIFICA	S AND/OR TION PRIOR
7.3. SHOP DRAWINGS OW STAMPED CONSULTANTS ACCEPTED REVIEWED. 7.4. OPERATION AND MANTEWAKCE DATA SHALL INCLUDE ALL MECHANICAL SYSTEMS AND/OR DEVICES SUFFICIENTLY DEFAULT ON DESCRIPT LEARNING OR DESCRIPTIONES. TECHNICAL ON TAX. CONSTRUCTION		TO COMMEN	CEMENT OF THE WORK		
DEFAILED WITH RESPECT TO DESIGN ELEWITS, OPERATIONAL PROCEDURES, TECHNICAL DATA, CONSTRUCTION FFATURES, COMPONENT FUNCTIONS AND MAINTENANCE REQUIREMENTS TO PERMIT EFFECTIVE START UP, OPERATION, MAINTENANCE, REPAR, MODIFICATION, EXTENSION AND EXPANSION OF ANY PORTION OF THE	6.	SUBTRADES	AND SHALL ADDRESS (INSIBLE FOR ALL COORDINATION 1 CONSTRUCTION TEAM COORDINAT NFORMATION FROM JP2G.	ION ITEMS
SYSTEM. 7.5. ALL TESTING AND COMMISSIONING RESULTS AND START-UP FOR EQUIPMENT INSTALLED AND CERTIFICATE OF		CINICIN TO ISS	menues is for	in communation PROM JP2G.	
ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION. C. CERTIFICATE OF ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION FOR SPECIAL INSTALLATION REQUIREMENT					
SUCH AS, BUT NOT LIMITED TO, SEISMIC INSTALLATION OF EQUIPMENT AND SPRINKLER INSTALLATION TO BE AS PER NYFPA 13. 7.7. APPROPRIATE DIAGRAM, OPERATING INSTRUCTIONS AND ALL OTHER REQUIRED INFORMATION REGARDING					
1.1. APMCMMALE UARAWA, UPEXALINS INSTRUCTIONS AND ALL UTER REQUEELI IN VIRIATION RELAVOINS CONTROLS FOR OPERFORMATION AND ANIMATEWANCE OF THE SYSTEMS 73. COLORED MAR COMPORE AS ABULTS DRAWINGS FOLLOWING ENGINEER APPROVAL FALUER TO SUBMIT MUNULS SPECIFIED WILL INCUR ADDITIONAL THE SYSTEMS AND AND AND FOR ADMINISTING FALUER TO SUBMIT MUNULS SPECIFIED WILL INCUR ADDITIONAL THE SYSTEMS					
FALURE TO SUBMIT MANUALS SPECIFIED, WILL INCUR ADDITIONAL 10% HOLDBACK AGAINST PROGRESS PAYMENTS. SUBMIT TWO (2) HARD COPIES WITHIN FOUR (4) WEEKS OF ACCEPTANCE OF DRAFT MANUALS TO OWNER.					
CONTRACTORS SHALL WARRANTY THEIR WORK, PARTS, AND LABOR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE BY THE OWNER OR SUBSTANTIAL COMPLETION. WHICHEVER IS GREATEST.					
DRAWINGS ONLY SHOW GENERAL INTENT AND SCOPE OF WORK NOT EXACT DETAILS OF INSTALLATION. CONTRACTOR					
SHALL PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEMS SHOWL CONTENCTORS SHALL DEPENDENT LEDETINIST LEDETINIST DEVININGS AND AND SET CONTENTIONS					
TO VERIFY THAT WORK CAN BE CARRED OUT AS SHOWN ON DRAWINGS, NO CAMINS FOR EXTRA PAYMENTS WILL BE CONSIDERED FOR FALLINE TO DO SO. CONTRACTORS WILL ALSO MAKE ALLOWINGE IN TENDERING FOR SPACE LIMITATIONS, SECONT SUSCES, MOST ESMILATAREOUS WORKING OF DIFFERENT TRADES.					
LIMINITIONS SECURITIESSUES, MOLITIESSUESS MUNITIESSUESTING UT DIFFERENT INVELSS. 1. THE WORD TRRVIDE'SSHLL MEAN "SUPPLY AND INSTALL". CONTRACTORS SHALL PROVIDE ALL REQUIRED EQUIPMENT AND PARTIS RET RET HE FINAL CONNECTION CONTRACTOR INFORMATION (INFORM).					
AND PARTS FOR THE FINAL CONNECTION OF EQUIPMENT "BY OTHERS". CONTRACTORS SHALL INSPECT THE SITE PRIOR TO SUBNITTING A BID. NO EXTRA SHALL BE ACCEPTED FOR FAILURE TO					
. CONTINUETORS SHALL INSPECT THE STIE PROR TO SUBMITTING A BID. NO EXTRA SHALL BE ACCEPTED FOR FAILURE TO VISIT SITE PRIOR TO TENDER CLOSE.					
2. CONTRACTORS ARE TO SUPPLY TOOLS, EQUIPMENT, AND PERSONNEL TO DEMONSTRATE AND INSTRUCT OPERATING AND MAINTENANCE PERSONNEL IN THE OPERATING, CONTROLLING, ADJUSTING, TROUBLE-SHOOTING, AND SERVICING OF ALL					
SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.					
 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE DOCUMENTS OF ALL OTHER DISCIPLINES ISSUED FOR THIS PROJECT. 					
DRAWINGS INDICATE GENERAL ROUTING OF PIPING, EQUIPMENT, AND DUCTWORK. COORDINATE ON SITE PRIOR TO DUCT FABRICATION.					
PROVIDE ACCESS DOORS IN DRYWALL CEILING AND WALLS FOR ACCESS TO ALL VALVES, DAMPERS AND DEVICES					
REQUIRING PERIODIC MINITEWANCE DOOR TO BE STEEL WITH QUARTER-TURN FASTENER.					
2 PROTECTION PRODUCTION ARE DETINITION INCODING DIRECTION PROTING EXCEPTING EXCEPTING EXCEPTING AND DUCTIVIDING AND EVERY TO BE INSTALLED AT EACH CHANGE IN DIRECTION, ON BOTH SIDES OF WALLS OR OBSTRUCTIONS, MID EVERY TO METERS OF STRUGHT RUN.					
PROVIDE CUTTING, PATCHING, AND CORING OF ALL WALLS, CELINGS, CONCRETE SLABS, AND OTHER SURFACES AS					
REQUIRED FOR MICHWARKU, WORK, COORDINATE WITH OWNER PRIOR TO CORE DRILLING AND CUITING OF STRUCTURE REGARDING BUILDING REQUIREMENTS AND POLICES. ALL PROPOSED OPENINGS SHALL BE SCANNED, TRACED, AND REVIEWED BY STRUCTURAL BUIGNERE RETAINED BY THE CONTRACTOR PROFIL TO CORING. CUI, DAMAGED, OR					
ISTURBED SURFACES MUST BE PATCHED AN EXPANED TO ENGINEER'S APPROVAL. MATCH EXISTING MATERIAL, COLOUR, FINISH, AND TEXTURE OR AS INDICATED OTHERWISE.					
3. THESE DRAWINGS SHOW THE COMPLETED WORK ONLY. INSTALL AND REMOVE ALL TEMPORARY WORKS (SHORING,					
1. THESE DRAWINGS SHOW THE COURTERED WORK ONLY. INSTALL AND REMOVE ALL TEMPORARY WORKS (SHORING, BRONNE ELTO, REQUERED TO PROTECT THE DESISTING STRETCHERE AND ANOTHER TURNES (SHORING DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR IS NOT SHORING TO ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR DESCUTION OF THE CONTRACTOR AND THE OWN.					
8. ALL TEMPORARY WORKS SHALL BE DESIGNED AND REVIEWED BY A PROFESSIONAL ENGINEER RETAINED BY THE					
CONTRACTOR, LICENSED IN ONTARIO.					
 CONSTRUCTION LOADS ON THE PERMANENT STRUCTURE ALONG THE PATH OF TRAVEL SHALL BE ASSESSED BY A PROFESSIONAL ENGINEER. 					
	2	2023/05/31	ISSUED F	OR 80% DESIGN REVIEW	AM / MM
	1	2023/04/06	ISSUED F	OR 50% DESIGN REVIEW	AM / MM
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			A. MACDONALD M. MACPHERSON	PROJECT No.: 22-1026 DATE: 2023/05/3	
			A. MACDONALD	SCALE: AS NOTE	
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Γ				SUPPLY	FAN						COOLING	G COIL								HEATING SEC	TION				ELECTRICAL			DIMENSION	5			
	TAG	AREA SERVED	AIR VOLI	UME (L/s)	ESP (Pa)	MOTOR	TYPE	STACES			NET TOTAL	NET SENSIBLE	E.A.	T. (°C)	L.A.	ſ. (°C)	HEATING	STAGES	MAX HEATING	MAX HEATING	F.A.T. (°C)	LAT. (°C)	NATURAL GAS	MCA	MOP	VIDIU-	WIDTH	LENGTH	HEIGHT	WEIGHT (kg)	FILTER SELECTION	DESIGN BASED ON
			SUPPLY AIR	OUTSIDE AIR		BHP	1176	STAGES	5 REFRIGERANI	ANKIEEK	CAPACITY (kW)	CAPACITY (kW)	DB	WB	DB	WB	FUEL	STAGES	INPUT (kW)	OUTPUT (kW)	L.A.I. (0)	L.A.1. (0)	PRESSURE (kPa)	(AMP)	(AMP)	V/W/HZ	(mm)	(mm)	(mm)			
	MAU-1	KITCHEN	1180	1180	124.42	0.72	DX COOLING	2	R-410A	13.6	30.68	21.43	32.22	22.22	15.79	14.73	LP GAS	2	85.72	85.72	-25.0	23.1	2.7 - 3.2	50.0	60.0	240/1/60	2432	2242	1270	784	MERV 13	AAON: RN-009-8-0-HA09-7G2:M000-U00-NCE-AGA-0DKAHBF
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			CAPAC	ITY (kW)	POWER I	IPUT (kW)				ELECTRIC	AL		DIMENSIONS					Ē
TAG	MANUFACTURER	MODEL	COOLING	HEATING	COOLING	HEATING	REFRIGERANT	WEIGHT (kg)	MCA (AMP)	MOP (AMP)	V/Φ/Hz	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)	NOTES	TAG	MANUFACTURER	
CU-1	YORK	YHG60B21S	16.38	17.67	4.48	4.3	R-410A	137.9	32.4	50	208/230 / 1 / 60	914.4	1016	1270		CO-1	YORK	Ī
CU-2	YORK	YHG60B21S	16.38	17.67	4.48	4.3	R-410A	137.9	32.4	50	208/230 / 1 / 60	914.4	1016	1270		CO-2	YORK	Í

	SPLIT-SYSTEM COIL SCHEDULE											
			COOLING PERFORMANCE						DIMENSIONS			
TAG	MANUFACTURER	MODEL	TOTAL GROSS CAPACITY (kW)	SENSIBLE GROSS CAPACITY (kW)	AMBIENT DB TEMP (°C)	REFRIGERANT	AHRI RATED EFFICIENCY	WEIGHT (kg)	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)	NOTES
CO-1	YORK	XAFD60JXXN1	16.38	12.72	35	R-410A	14	73	622	597	333	
CO-2	YORK	XAFD60JXXN1	16.38	12.72	35	R-410A	14	73	622	597	333	

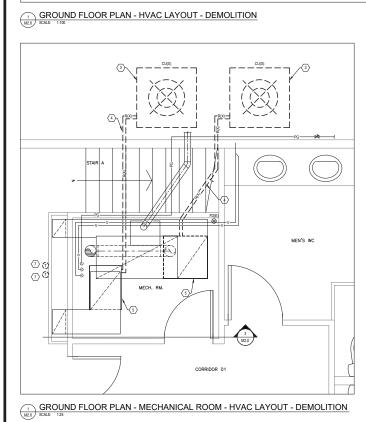
	HRV SCHEDULE											
						ELEC	CTRICAL			DIMENSIONS		
TAG	MANUFACTURER	MODEL	DESCRIPTION	AIRFLOW (L/s)	ESP (Pa)	V/PH/Hz	MCA	MOP	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTES
HRV-1	ALDES	H1100-Fi-EC-N	HEAT RECOVERY VENTILATOR	450	84	230/1/60	6	15	921	1200	606	

					PLUMBING FIXT	URE SCHEDULE
TAG		SERVICE		DESIGN BASIS MODEL (EQUIVALENT ACCEPTABLE)	TRIM MODEL (EQUIVALENT ACCEPTABLE)	DESCRIPTION
IAG	DCW	DHW	SAN			
SH1	2012	200				ACRYLIC SURROUND SHOWER WITH HAND SPRAY, SINGLE LEVER PRESSURE INDEPENDENT MIXING VALVE
SH2	20Ø	200				BARRIER FREE SHOWER WITH ACRYLIC SURROUND, SINGLE LEVER PRESSURE INCEPENDENT MIXING VALVE, HAND SPRAY AND TOE TESTER
2. PROVIDE		CTION OF ALL ALVES ON ALL	FIXTURES W	ATER SUPPLIES.		

	WATER HEATER SCHEDULE												
					INPUT				DIMENS	IONS	FILLED	VENT	
TAG	MANUFACTURER	MODEL	TYPE	VOLUME (L)	CAPACITY (kW)	MEDIUM	EFFICIENCY	RECOVERY L/HOUR @ 56°C RISE	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (kg)	DIAMETER (mm)	NOTES
HWT-1	AO SMITH	CYCLONE-MXi-BTH-300	GAS FIRED STORAGE TANK	450	88	PROPANE	96%	1321	841	1924	830	100Ø	
HWT-2	AO SMITH	CYCLONE-MXI-BTH-300	GAS FIRED STORAGE TANK	450	88	PROPANE	96%	1321	841	1924	830	100Ø	

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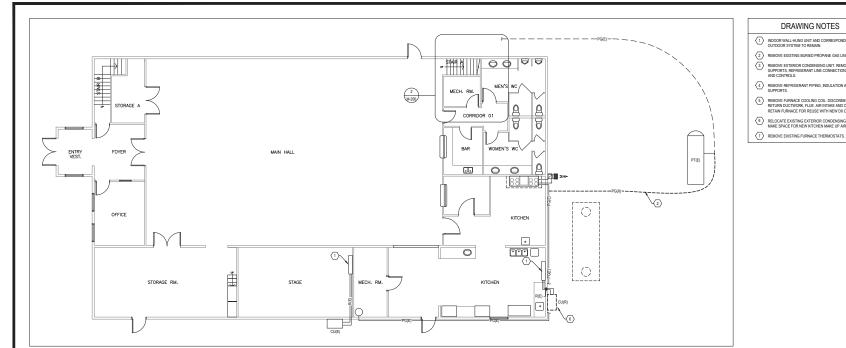
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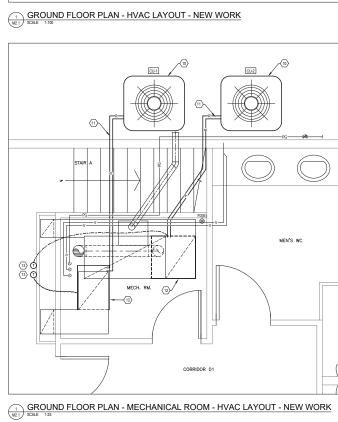
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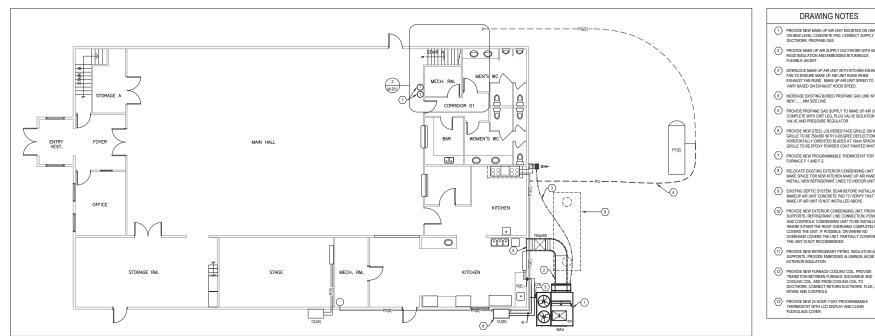
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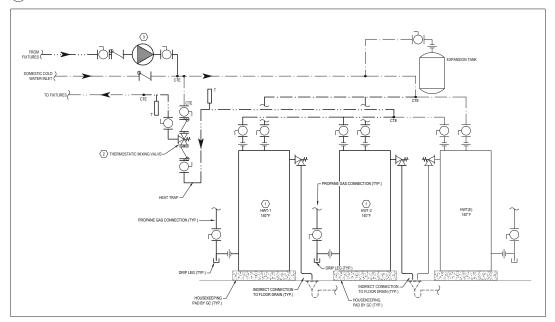




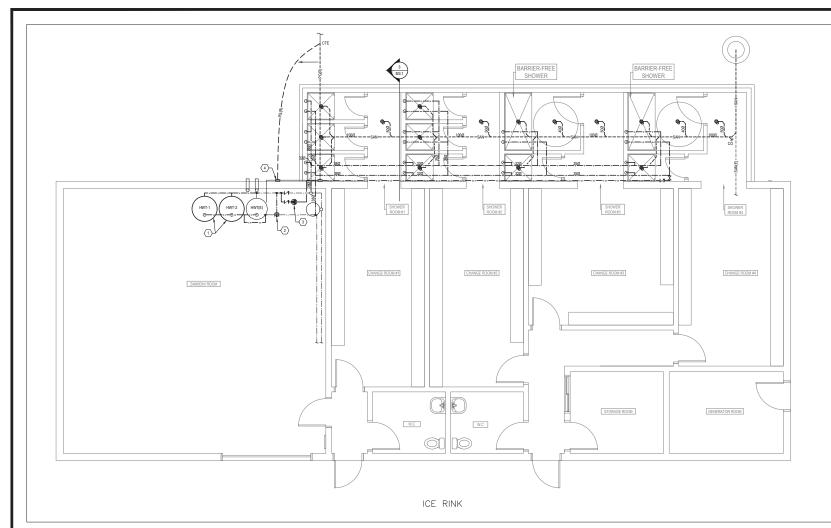
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DOMESTIC HOT WATER TANKS



CHANGE ROOM BUILDING FLOOR PLAN - PLUMBING LAYOUT - NEW WORK



Performe BRANCHIG YALES ON KILL COMESTIC FOR YALER RECROLLATION REWORKES AND BLANCE MINIAL MYRE SIZ OF UNDER SIX AND PRANCHO TO RE F30 SMITLARY SLOPE TO BE F1% UNLESS OTHERWISE NOTED. ALL PRIVE AND THIT AND SAFELLE RESULTING TO SOFEMATICS, DEFINITION OF THE PRIVE TO BE OF ALL WATER SUPPLY RESETT TO BE WARDOW COLOR WITH THE F1% OTHER THE WITH PROPAGE HEATER TO TAKE CARACITY. AND TO BE F1% UNLESS OTHERWISE NOTED. ALL PROVIDE NEEDED. AND THIS PROVIDE HIT WATER HEATER IN PROPAGE HEATER TO BE OF ALL WATER SUPPLY RESETT TO BE WARDOW COLOR WITH TO BE F1% UNLESS OTHERWISE NOTED. AND TO BE F1% OTHERWISE NOTED. AN

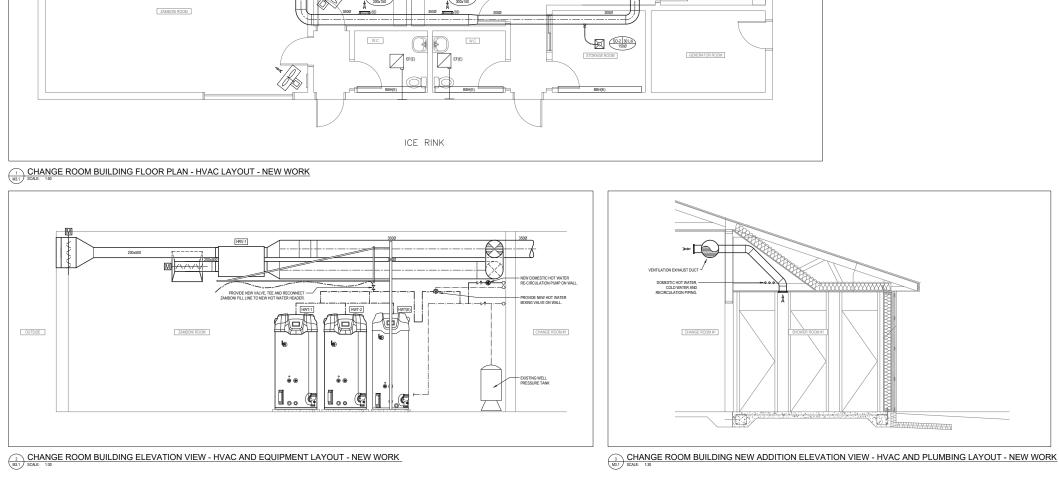
RELOCATE EXISTING BURIED PROPANE LINE AND WALL-MOUN PRESSURE REGULATOR BOX TO BE CLEAR OF NEW SHOWER

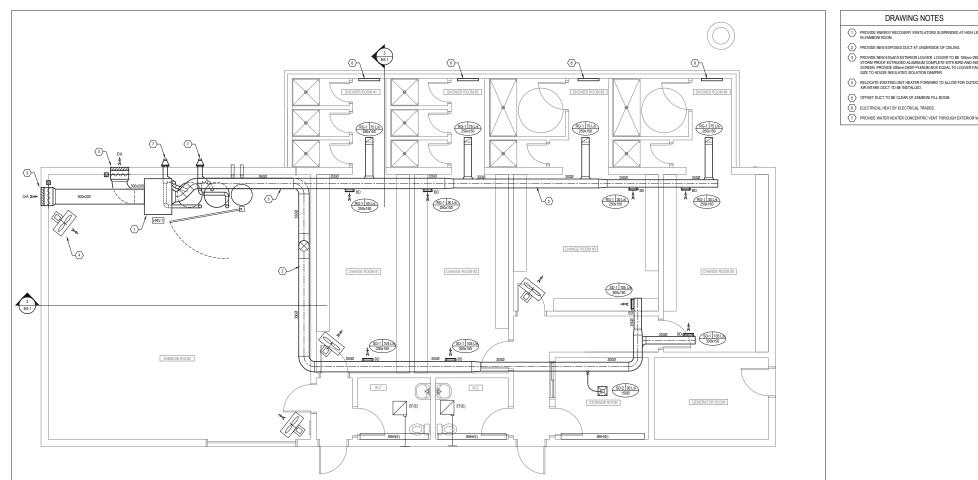
GENERAL NOTES

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THE CORPORATION OF THE TOWNSHIP OF HORTON

REGULAR COUNCIL MEETING JULY 4TH, 2023

There was a Regular Meeting of Council held in the Council Chambers on Tuesday July 4th, 2023. Present were Mayor David Bennett, Deputy Mayor Tom Webster, Councillor Glen Campbell, Councillor Doug Humphries, and Councillor Daina Proctor. Staff present was Hope Dillabough, CAO/Clerk, and Nichole Dubeau, Executive Assistant– Recording Secretary.

1. CALL TO ORDER

Mayor Bennett called the meeting to order at 4:00 p.m.

2. LAND ACKNOWLEDGEMENT Mayor Bennett read the Land Acknowledgement in its entirety.

3. **DECLARATION OF PECUNIARY INTEREST** There was no declaration of pecuniary interest.

4. CONFIRMATION OF COUNCIL AGENDA

Moved by Councillor Campbell RESOLUTION NO. 2023-148 Seconded by Deputy Mayor Webster THAT Council adopt the Agenda for the July 4th, 2023 Regular Council Meeting. Carried

5. DELEGATIONS &/or PUBLIC MEETINGS – NONE

6. MINUTES

- 6.1 June 15th, 2023 Public Meeting ZBLA Tomlinson
- 6.2 June 20th, 2023 Regular Council
- 6.3 June 20th, 2023 Public Meeting ZBLA Mielke

Moved by Councillor Proctor

RESOLUTION NO. 2023-149

<u>Seconded by Councillor Humphries</u> **THAT** Council approve the following Minutes:

- June 15th, 2023 Public Meeting ZBLA Tomlinson
- June 20th, 2023 Regular Council
- June 20th, 2023 Public Meeting ZBLA Mielke

Carried

7. BUSINESS ARISING FROM MINUTES

There was no business arising from the minutes.

8. COMMITTEE REPORTS:

8.1 COMMUNITY COMMITTEES / COUNTY COUNCIL

8.1.1 Renfrew & Area Seniors Home Support Councillor Humphries gave a brief update.

<u>8.1.2 Chamber of Commerce</u> Councillor Humphries gave a brief update.

8.1.3 County Council

Mayor Bennett previously sent County info to Council Members for review.

9. CORRESPONDENCE SUMMARY

9.2 ACTION CORRESPONDENCE – NONE

10. BYLAWS – NONE

11. NOTICE TO FILE MOTION FOR NEXT COUNCIL – NONE

12. COUNCIL/STAFF MEMBERS CONCERNS

Councillor Proctor questioned what the next step in the process is for the Tomlinson Zoning By-law and Official Plan Amendments. CAO/Clerk Hope Dillabough stated that the questions and concerns submitted by Council were forwarded to the County to compile and submit to Tomlinson and MHBC for their response. The County is waiting for the peer reviews to be completed and then Council can set another public meeting date after that, likely in September, for residents, Tomlinson, the County, and MHBC to attend. Councillor Proctor questioned if information regarding a second public meeting for further discussion could be sent out to residents. CAO/Clerk Hope Dillabough stated that it will be in a planning report at the next Council meeting and a framework of the information will be posted on the website. Deputy Mayor Webster stated that he was meeting with Craig Bellinger from Tomlinson the next morning for clarification and answers to some of his concerns and would bring back the information to Council.

Councillor Campbell stated that former Councillor Joe Gauthier had passed away. CAO/Clerk Hope Dillabough stated that she will check the Township policies and follow procedure for the passing of former Staff and Councillors.

13. **RESOLUTIONS**

Moved by Councillor Humphries

Seconded by Councillor Proctor

THAT Council receive the reports for Community Committees and County Council as information.

Carried

RESOLUTION NO. 2023-150

14. IN CAMERA (Closed) SESSION – NONE

15. CONFIRMING BYLAW

Moved by Councillor ProctorRESOLUTION NO. 2023-151Seconded by Councillor CampbellTHAT Council enact By-law 2023-34– Confirming By-Law.

Carried

16. ADJOURNMENT

Mayor Bennett declared the meeting adjourned at 4:38 p.m.

MAYOR David M. Bennett

CAO/CLERK Hope Dillabough



Township of Horton COUNCIL / COMMITTEE REPORT

Title:	Date:	July 18, 2023
	Council/Committee:	Council
TREASURER'S REPORT	Author:	Nathalie Moore, Treasurer
	Department:	General Government

RECOMMENDATIONS:

THAT Council receive the Treasurer's Report dated July 18, 2023, as presented.

BACKGROUND:

On June 21st, the CAO/Clerk and I attended a session through AMCTO on Commissioner of Oaths discussing the Legislative Framework, What a Commissioner of Oaths is, By-Virtue of Office, Responsibilities, What documents can be commissioned (vs. notary), Virtual Commissioning, Legal requirements (stamps, liability etc.), Customer service (charges, residents vs. non-residents). Since participating in this session we have discussed and changed a couple of things about our process currently practiced when commissioning documents. The most recent review of the Fees & Charges By-law implemented a nominal fee of \$5.00 per signature whereas in the past we did at no charge.

Notable expenses in May were payments to the County and various School Boards totaling \$729,463 for the second quarter of 2023, ARMTEC received \$5,847.06 for culverts and materials, Minister of Finance received \$35,574.00 for the Township's monthly OPP services and Jp2G in the amount of \$6,610.23 for landfill monitoring services.

For the 2024 budget, staff has devised a timeline to have budget completed by December 31, 2023

<u>**Departmental Budgets**</u> – Senior Staff will be provided with worksheets to create budgets based on anticipated activities, Strategic Plan priorities, also accounting for expected expenses and estimated revenues.

<u>Budget Development</u> – Senior Staff will be asked to return their working papers by September 15, 2023. The draft budget will be populated and ensured consistency with the Capital Forecast Plan and our Asset Management Plan.

<u>Budget Review</u> – The Treasurer will attend all Committee Meetings in September/October to present the department's preliminary budget. Before November 15, 2023, Council, along with public advisory members will be presented the draft budget and discuss any concerns or changes to be implemented.

<u>Public Budget Meeting</u> – The public meeting will be set for December after any revisions that are requested based on Council/Committee input and priorities, a final version of the budget is prepared for adoption.

The departmental summary of revenues and expenditures to June 30, 2023.

	<u>JUNE</u> 2023	<u>JUNE</u> 2022
GENERAL GOVERNMENT	ACTUAL	ACTUAL
REVENUE	(2,908,343.00)	(2,772,163.00)
EXPENSES	410,266.00	371,182.00
PROTECTION	ACTUAL	ACTUAL
REVENUE	(55,712.00)	(3,695.00)
EXPENSES	267,432.00	195,703.00
TRANSPORTATION / STORM SEWER	ACTUAL	ACTUAL
REVENUE	(3,128.00)	(7,715.00)
EXPENSES	447,709.00	427,413.00
ENVIRONMENT	ACTUAL	ACTUAL
REVENUE	(44,825.00)	(56,707.00)
EXPENSES	259,556.00	222,886.00
RECREATION	ACTUAL	ACTUAL
REVENUE	(29,418.00)	(18,522.00)
EXPENSES	118,300.00	95,874.00
LIBRARY / HEALTH SERVICES	ACTUAL	ACTUAL
REVENUE	-	-
EXPENSES	8,489.00	8,323.00
PLANNING	ACTUAL	ACTUAL
REVENUE	(2,760.00)	(4,460.00)
EXPENSES	2,958.00	2,722.00
FIRE DEPARTMENT	ACTUAL	ACTUAL
REVENUE	(9,879.00)	-
EXPENSES	81,580.00	104,645.00
BUILDING	ACTUAL	ACTUAL
REVENUE	(34,846.00)	(36,834.00)
EXPENSES	28,955.00	25,016.00

Prepared By: Nathalie Moore, Treasurer Reviewed By: Hope Dillabough, CAO/Clerk

Township Of Horton

JUNE 2023 BUILDING REPORT

Month	No. of Permits	2023 Value of Permits	2022 Value of Permits	20	21 Value of Permits	Renos/Add Comm/Res	Garages/Storage Bldg Comm/Res	New Res	New Comm	Demos	Total SQ. FT	Stop Work Orders Issued
January	0	\$-	\$0	\$	-							
February	4	\$ 1,258,600	\$1,635,000	\$	785,000		2	2			7,641	0
March	3	\$ 663,000	\$1,083,200	\$	1,340,000	1	1	1			6,375	0
April	7	\$ 1,865,000	\$879,000	\$	2,291,300	2		3		2	13,100	0
May	4	\$ 614,000	\$1,765,000	\$	1,391,000	1	2	1			8,822	0
June	8	\$ 1,802,000	\$2,220,400	\$	348,000	3	2	3			12,201	0
July			\$149,000	\$	540,000							
August			\$641,000	\$	1,355,000							
September			\$1,500,000	\$	1,021,000							
October			\$825,000	\$	996,000							
November			\$0	\$	3,130,500							
December			\$0	\$	80,000							
TOTALS	26	\$ 6,202,600	\$10,697,600	\$	13,277,800	7	7	10	0	2	48,139	0

Open Planning Files as of July 14, 2023

File Name	File No.	No. of Severances	Date Rec'd by County	Date Deemed Complete by County	Date Rec'd by Township	Date of Last Item Sent to County	Status of File
Sullivan Holdings (Arnprior) Inc	B163/21	1	27-Sep-21	Sept 27, 2021 but signed Dec 3	08-Dec-21	11-Jan-21	Notice of Decision rec'd April 27/22- applicant to complete conditions
Ron & Shirley Kasaboski	B158/21	1	20-Sep-21	Sept 20, 2021 but signed Nov 18	08-Dec-21	20-Dec-21	Notice of Decision rec'd April 27/22 -Applicant to complete conditions
Douwe Bakker	B155/21 B156/21 B157/21	3	10-Sep-21	Sept 10, 2021 but signed Dec 3	06-Dec-21	11-Jan-22	Notice of Decision rec'd April 7/22 - Applicant to complete conditions
Jennifer Armstrong	B127/21	1	03-Aug-21	Aug 3, 2021 but signed Oct 17	29-Nov-21	21-Dec-21	Notice of Decision rec'd March 9/22 -Applicant to complete conditions
Melvyn Mielke	B12/22	1	21-Jan-22	20-Apr-22	21-Apr-22	12-May-22	Notice of Decision rec'd August 19/22- applicant to complete conditions
Douwe Bakker	B123/21 B124/21 B125/21 B126/21	3	28-Jul-21	July 28, 2021 but signed Oct 19	25-Oct-21	02-Nov-21	Amended Applications rec'd Dec 5/22 & B124 Abandoned
Jamie Prince & Tina Hunt	B188/21 B189/21 B190/21	3	18-Nov-21	Nov 18, 2021 but signed Mar 29, 2022	31-Mar-22	06-Apr-22	B189/21 & B190/21 Complete Notice of Decision rec'd Nov 24/22 - applicant to complete conditions for B188/21
lla Ferguson	B104/22 B105/22 B106/22	3	19-May-22	17-Jun-22	15-Sep-22	27-Sep-22	Notice of Decision rec'd Nov 29/22 - applicant to comeplete conditions
Danny Leblanc & Karen Sholea	B124/22 B125/22	2	15-Jun-22	15-Jun-22	18-Oct-22	04-Nov-22	Notice of Decision rec'd April 20/23 - applicant to complete conditions
Darcy & Cheryl Warren	B178/22 B179/22	2	06-Oct-22	06-Oct-22	14-Dec-22	20-Mar-23	Notice of Decision rec'd July 12/23 - applicant to complete conditions
Dan & Lyn Ripley	B183/22	1	17-Oct-22	17-Oct-22	15-Dec-22	19-Dec-22	Notice of Decision rec'd Apr 12/23 - applicant to complete conditions
William Juby & Robert Barker	B222/22	1	01-Dec-22	01-Dec-22	10-Mar-23	13-Mar-23	Notice of Decision rec'd July 12/23 - applicant to complete conditions
D.C. Hawkins Holdings Ltd	B02/23 B03/23 B04/23	3	01-Jan-23	07-Feb-23	16-Mar-23	12-May-23	Municipal documents sent to Cty

Open Planning Files as of July 14, 2023

File Name	File No.	No. of Severances	Date Rec'd by County	Date Deemed Complete by County	Date Rec'd by Township	Date of Last Item Sent to County	Status of File
Lloyd & Val Hisko	B45/23 B46/23	2	06-Mar-23	06-Mar-23	16-May-23	17-May-23	Municipal documents sent to Cty
Peter & Glenda Tippins	B48/23	1	07-Mar-23	07-Mar-23	17-May-23	30-May-23	Municipal documents sent to Cty
Cayla McNulty	B72/23 B73/23	2	14-Apr-23	14-Apr-23	12-Jul-23		Site Suitability letter sent to owner July 14/23

File Name	File Type	File Status
Lloyd & Val Hisko	Zoning By-law Amendment	Application sent to Cty May 25/23
Tomlinson Ltd.	Zoning By-law Amendment	Public Meeting June 15/23
Transitions Rehab & Healthcare Inc	Zoning By-law Amendment	Application sent to Cty July 14/23



Township of Horton COUNCIL / COMMITTEE REPORT

Title:	Date:	July 18 th , 2023
Backyard Chickens	Council/Committee:	Planning Committee/Council
	Author:	Hope Dillabough, CAO/Clerk
	Department:	Planning

RECOMMENDATIONS:

THAT the Planning Committee recommend to Council to direct staff to create a survey for the purpose of a 30-day public consultation on the keeping of backyard chickens;

AND FURTHER THAT once the survey results are compiled, the information is to be brought back to the Planning Committee and Council for further consideration and discussion.

BACKGROUND:

In addition to some inquiries from residents of the Township, Councillor Proctor has requested a report be brought forward to consider the keeping of backyard chickens. This report will include the following information for consideration:

- Background information in considering backyard chickens;
- Township of Horton's current regulations;
- A review of adjacent municipalities and what they have done; and
- Recommended next steps for Committee and Council to consider.

Urban agriculture is growing in popularity around the world and people want to reconnect with their food. People are also becoming increasingly aware and concerned of food costs, supply, production, practices, and safety. Urban agriculture is often paired with catchphrases such as 'sustainable living', 'reducing the ecological footprint', and 'eat local'. It can take a variety of forms, including gardening, livestock raised in backyards, container gardening on balconies and rooftops and community gardening in municipal allotments. The keeping of backyard chickens for eggs and meat purposes is included in this trend. Municipalities in Ontario are increasingly supporting various agricultural practices outside of the traditional agricultural areas. However, permitting such uses requires appropriate implementation tools and establishing parameters that carefully consider the risks and issues associated with raising livestock in areas of denser rural residential areas.

Items to be Considered

Benefits

- Locally produced food
- Greater control over food sources
- Reduction of municipal solid waste through consumption of table scraps and other organic waste
- Food safety better quality, fresh, no pesticides or antibiotics
- Better conditions for chickens in comparison to industrial farms
- Better tasting eggs
- Manure can be composted and used for fertilizer

- Companionship
- Pest control
- Home raised agriculture avoids the energy usage and carbon emission typically associated with transporting food
- Provide lessons for children about responsibility where food comes from
- Lowers food bills for owners
- Accessible protein
- Global environmental sustainability begins with local initiatives such as backyard chickens
- Aligns with Horton Township's initiative regarding food security

Disadvantages

- Nuisances such as odours and noise
- Animal health and public health poultry can be a source of disease and require health management and veterinary care as well as basic biosecurity measures to protect the health of the livestock by preventing the spread of disease
- Attraction of predators and pests such as rodents, flies, stray dogs, coyotes, raccoons, foxes etc..
- Trespassing Chickens at large
- Food Safety unregulated sale of eggs
- Slaughter of animals and disposal of dead animals
- Animal care poultry need proper shelter, water and adequate space to stay healthy
- Disposal of manure must be in a safe and environmentally responsible manner.

Requirements and Controls to be considered

- Lot size requirement
- Number of Chickens/hens to be permitted
- Egg production; meat production
- Personal consumption; no sale
- Permit or prohibit roosters; permit roosters for limited time period
- Minimum/maximum coop size/run size (building permit not required for any structure under 108 sq. ft.)
- Controls for food supply
- Controls for waste
- Controls for disposal and slaughter
- Minimum setbacks for coops/runs from any property line, from specific property lines, from windows/doors/building on abutting properties/from schools, churches, businesses etc..

Township of Horton's Current Policies and Regulations

Zoning By-Law

The Township's Comprehensive Zoning By-Law (By-Law 2010-14) clearly defines a farm in Section 2.81 as:

"land used for the tillage of soil; the growing and harvesting of field crops, vegetables, fruits, horticultural crops and trees; the grazing, breeding, raising, boarding or training of livestock and horses; dairying; beekeeping, fish farming; any other operation that is normal farming practice; and includes one farm dwelling as well as barns, sheds and other accessory structures."

It further clarifies in Section 2.122 what livestock means:

"chickens, turkeys, cattle, hogs, mink, rabbits, sheep, horses, goats or any domestic animal used or raised for consumption or for commercial purposes"

Farms are only permitted in the Rural designated lands by the Zoning By-Law where a minimum lot area of 10 hectares (25 acres) is required. Currently, the Zoning By-Law only permits the keeping of chickens on lands where a farm is a permitted use.

What other Municipalities Have Done

There are some municipalities in the County of Renfrew, rural and urban that have implemented regulations for backyard chickens. The regulations are similar across the board but do vary some degree. Some municipalities include more requirements than others (for example: minimum lot size, number of chickens permitted, issuing permits, fees for permits etc). Various implementations also include stand-alone by-laws, revising animal control by-laws for inclusion and revising and updating the Comprehensive Zoning By-Law.

Adjacent Municipalities that permit backyard chickens include but not limited to: Arnprior, McNab/Braeside, Greater Madawaska, Whitewater Region, Bonnechere Valley. Admaston/Bromley is currently considering implementing a stand-alone by-law to permit.

Upon discussion with the Township's contracted By-Law Enforcement (MLES), it was suggested that for the Township of Horton, if implemented, a stand-alone by-law would be recommended. Staff recommends that if a stand-alone by-law is considered that public consultation, either by way of a survey or public meeting should still occur for transparency and accountability. By doing this, it will allow Committee and Council to further decide on parameters for allowing backyard chickens.

Recommendations to Consider

<u>#1</u>

THAT the Planning Committee recommend to Council to direct staff to create a survey for the purpose of a 30-day public consultation on the keeping of backyard chickens;

AND FURTHER THAT once the survey results are compiled, the information is to be brought back to the Planning Committee and Council for further consideration and discussion.

<u>#2</u>

THAT the Planning Committee recommend to Council to direct Staff to hold a Public Meeting for Council and Staff to receive comments on the keeping of Backyard Chickens.

<u>#3</u>

THAT the Planning Committee recommend to Council that the consideration to permit backyard chickens be discussed upon the review of the Comprehensive Zoning By-law scheduled for 2024, which would include the public consultation piece.

ALTERNATIVES: Remain Status Quo – Do not proceed with permitted backyard chickens.

FINANCIAL IMPLICATIONS:

- Revenue could be generated if Council wishes to implement a permitting process with an associated fee.
- May be additional fees associated with By-Law enforcement.

ATTACHMENTS:

1) By-Law 2015-106 Township of McNab/Braeside's Stand-alone by-law for Council to review as an example.

Prepared by: Hope Dillabough, CAO/Clerk

THE CORPORATION OF THE TOWNSHIP OF McNAB/BRAESIDE By-Law Number 2015-106 Being a By-Law to Regulate Backyard Chickens

WHEREAS the Municipal Act, 2001 authorizes the councils of municipalities to pass by-laws with respect to animals;

AND WHEREAS Township Council considers it advisable to pass such a by-law;

THEREFORE the Council of The Corporation of the Township of McNab/Braeside enacts as follows:

1. Definitions:

1.1 In this by-law,

"Administration Department" means the Building and Licensing Department, or another unit designated by Council to carry out the Department's responsibilities for the administration and enforcement of this by-law, and includes the Manager.

"Agricultural property" means a property that is zoned for agricultural use in the zoning by-law that applies to the property;

"Animal" means any member of the animal kingdom, other than a human;

"Animal Control Officer" means an authorized employee or agent of the Township of McNab/Braeside who is responsible for the enforcement of the provisions of this by-law;

"At large" in the case of a chicken, means being outside a coop or run.

"Chicken" means a domestic fowl kept for its eggs or meat;

"Chicken run" means covered secure enclosure that allows backyard chickens' access to outdoors

"Coop" means a fully enclosed weatherproof building where backyard chickens are kept and which the interior of includes nest boxes for egg laying, perches for the chickens to sleep on and food and water containers;

"Council" and "Township Council" mean the Council of the Township of McNab/Braeside;

"Dwelling" means a self-contained residential unit;

"Highway" includes all land between the lateral boundaries of every provincial and municipal highway within the Township;

"Home occupation" has the same meaning as in the zoning by-law that applies to the property;

"Keep" means to have temporary or permanent custody or control of an animal, and **"keeps"** and **"Kept"** have corresponding meanings;

"Manager of Administration and Licensing" means the Manager, Building and Licensing Department and his or her designate or, in the event of organizational changes, another person designated by Council;

"Minor" means a person who has not attained the age of eighteen years;

"Owner" includes any person who possesses, harbours or keeps an animal or chicken and, where an owner is a minor, includes the person who is responsible for the custody of the minor;

"Property" means a parcel of land and any buildings or other structures on the land;

"**Residential property**" means a property that is zoned for residential use in the zoning by-law that applies to the property;

"Rural area" means the areas that are designated in the Township's by-laws

"Under the control of its owner" means being physically restrained by some other effective method by its owner or by another person acting on the owner's behalf;

"Veterinarian" means a person licensed under the Veterinarians Act;

"Veterinary hospital or clinic" means premises operated under the supervision of a veterinarian for the medical treatment of animals; and

"Zoning by-law" means a by-law passed under Section 34 of the Planning Act that restricts the use of land.

- 2. Application:
 - 2.1 Except as otherwise provided, the regulations established by this by-law apply to all backyard chickens within the boundaries of the Township and to the owners of such backyard chickens.

3. Administration:

- 3.1 The Administration Department is responsible for the administration and enforcement of this by-law.
- 3.2 Every application (attached as Schedule 'B') for a chicken coop permit or for the renewal of such a permit shall be submitted to the Administration Department in the form provided by the Department, and shall indicate the purpose for which the permit is being obtained.
- 3.3 Every application for a permit will be reviewed by the Department to determine whether it meets the requirements of this by-law and, as part of this review, will be circulated to the Building Section and an animal control officer for comments.
- 3.4 These agencies and individuals, as part of their review, may require an inspection of the property, other than a room or place used as a dwelling.
- 3.5 If it is determined that an application meets the requirements of this by-law, the Department will issue the permit.
- 3.6 There is no fee to obtain a permit, however, a fine will be imposed should a permit not be obtained.
- 3.7 If, at any time, the CAO/Clerk or designate determines, as a result of evidence that is provided, that the operation of a chicken coop does not conform to the requirements of this by-law, it may suspend or revoke the permit.

4. Regulations for the Keeping of Chickens:

4.1 (a) No person shall keep backyard chickens anywhere within the Township unless he or she has first obtained a chicken coop permit;

(b) Every person who holds a chicken coop permit shall allow, at any reasonable time, an animal control officer or other authorized employee or agent of the Township to inspect the property, (other than any room or place used as a dwelling) to determine whether all requirements of this by-law are being complied with.

(c) The total area of all chicken coops and chicken runs are to be less than 108 square feet (10 square metres) and must be limited to one story and less than 10 feet high.

(d) Chicken coops and chicken runs shall be a distance of at least 3.0 metres from the rear lot line and at least 3.0 metres from any side lot line of the dwelling lot on which the chicken coop is located.

(e)Chicken coops and chicken runs shall be located at least 15 metres from any school.

(f) Chicken coops and chicken runs shall be located at least 7.5 metres from any church or business.

(g)Chicken coops and runs are not permitted in any front or side yard.

(h)A maximum of 6 backyard chickens will be permitted on any residential property.

(i) A maximum of 12 backyard chickens will be permitted on lots in the rural designation that are less than 2 hectares in area.

(j)Tenants must obtain permission from the property owner to keep backyard chickens on the owner's property.

(k) The owner of the backyard chickens must reside on the property where the backyard chickens are kept.

(I) Home slaughter of backyard chickens is prohibited and any deceased backyard chickens shall be disposed of at a livestock disposal facility or through the services of a veterinarian.

(m) Backyard chickens shall be kept in their coops between 9:00 p.m. and 6:00 a.m.

(n) Chicken coops and chicken runs shall be maintained in a clean condition and the coop shall be kept free of obnoxious odors, substances and vermin.

(o)Stored manure shall be kept in an enclosed structure such as a compost bin, and no more than three cubic feet shall be stored at any one time.

(p)No owner shall cause or permit his or her chicken to become a public nuisance by persistently clucking.

(q)No owner shall cause or permit his or her chicken to be at large.

4.2 The regulations set out in section 4.1 do not apply to an agricultural property or to a property of five or more acres.

S. Offence and Penalty Provisions:

- 5.1 Every person who contravenes any provision of this by-law and any person who fails to comply with an order issued under this by-law is guilty of an offence and, upon conviction, is liable to a penalty as provided for in the Provincial Offences Act and to any other applicable penalties.
- 5.2 Every owner of an animal who contravenes any provision of this by-law or whose animal contravenes any provision of this by-law is guilty of an offence and, upon conviction, is liable to a penalty as provided for in the Provincial Offences Act and to any other applicable penalties.
- 5.3 If this by-law is contravened and a conviction entered, the court in which the conviction was entered or any Court of competent jurisdiction may, in addition to any other remedy and to any penalty that is imposed, make an order prohibiting the continuation or repetition of the offence by the person convicted.

6. Validity:

6.1

If a court of competent jurisdiction declares any provision, or any part of a provision, of this by-law to be invalid, or to be of no force and effect, it is the intention of Council in enacting this by-law that each and every provision of this

by-law authorized by law be applied and enforced in accordance with its terms to the extent possible according to law.

- 7. Commencement:
 - 7.1 This by-law comes into force on the final day of passing

BE IT FURTHER ENACTED, that all BY-LAWS, or parts thereof and all or any Resolutions of Council contrary thereto, or inconsistent herewith, be and the same are hereby repealed.

READ a first time this 1" day of December, 2015.

READ a second time this 1" day of December, 2015.

READ a third and final time this 1st day of December, 2015.

I Perfett

MAYOR

___ <u>Lindsey Parkes</u> CAO/CLERK

Schedule "A" Township of McNab/Braeside Part 1 Provincial Offences Act Regulate Backyard Chickens

ITEM	Short Form Wording	Section	Set Fines - excluding costs
1	Keep Chickens - No Permit	4.1 (a)	\$150.00
2	Fail to Allow Inspection	4.1 (b)	\$150.00
3	Prohibited Chicken Coop/Run - excess of 10 square metres	4.1 (c)	\$150.00
4	Prohibited Chicken Coop - excess of 10 feet high	4.1 (c)	\$150.00
5	Chicken Coop/Run - less than 3 metres from lot line	4.1 (d)	\$150.00
6	Chicken Coop/Run - less than 15 metres from school	4.1 (e)	\$150.00
7	Chicken Coop/Run - less than 7.5 metres from church or business	4.1 (f)	\$150.00
8	Chicken Coop/Run - prohibited location -front yard or side yard	4.1 (g)	\$150.00
9	Possess, keep, or harbour more than 6 chickens - residential	4.1 (h)	\$150.00
10	Possess, keep, or harbour more than 12 chickens - rural with less than 2 ha.	4.1 (i)	\$150.00
11	Tennant - Keep Chickens without owner consent	4.1 (j)	\$150.00
12	Owner-fail to reside on property	4.1(k)	\$150.00
13	Prohibited activity - slaughter	4.1 (I)	\$150.00
14	Improper disposal of chicken carcass	4.1 (I)	\$150.00
15	Fail to confine chickens - 9pm - 6am	4.1 (m)	\$150.00
16	Fail to maintain chicken coop/run	4.1 (n)	\$150.00
17	Chicken manure - improper storage	4.1 (o)	\$150.00
18	Permit chickens to become a nuisance	4.1 (p)	\$150.00
19	Permit chickens to be at large	4.1 (q)	\$150.00
L	1		1

NOTE: The penalty provision for the offences indicated above is section 5 of this By-Law #2015-106

Schedule "B" Township of McNab/Braeside Application for Chicken Coop Permit

Applicant Name: _	 Phone Number: (

Permit Address (where backyard hens will be housed):

Number of backyard chickens to be kept at permit address

(6 max. — Residential, 12 max. — Rural)

The total area of all coops and runs are less than 108 square feet (10 square meters) 0

The chicken coop and chicken run is one story high and less than 10 feet 0

Please include a site plan illustrating where the chicken coop, and run will be located on your property.

DECLARATION

IN THE MATTER OF AN APPLICATION FOR THE GRANT OF A MUNICIPAL PERMIT TO WIT:

______ of the ______ of ______ in the do solemnly declare:

- 1. That I am the applicant for the grant of a permit authorizing me to keep chickens pursuant to by-law 2015-106 within the Township of McNab/Braeside now and hereafter in force. I undertake to conform to the terms, conditions and regulations set out in by-law 2015-106 and understand that I must comply with all applicable regulations and requirements of: 1) every by-law of the Township of McNab/Braeside; and 2) every Provincial and Federal Act and regulation made under such an Act.
- 2. That I understand that any permit issued pursuant to the said application is subject to revocation.
- 3. That the statements contained in this application are true and I make this solemn declaration conscientiously believing it to be true and knowing it is of the same force and effect as if made under oath and by virtue of "The Canada Evidence Act".

DECLARED BEFORE ME at the Township of McNab/Braeside, this	 day of
2015.	

A Commissioner, etc.

. .

Applicant

Office Use Only

Chief Building Official Approval ______ Date: _____

Permit No. Issued by:

NOTICE OF COLLECTION: Personal Information collected is pursuant to the Municipal Freedom of Information and Protection of Privacy Act (and all other applicable privacy provincial and federal legislation). Such legislation is reviewed and applied for the collection, use, disclosure and destruction of the information. The personal information collected as a result of this application may he used to assist in reporting information when requested.

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Schedule "B" Township of McNab/Braeside Application for Chicken Coop Permit

Township of McNab/Braeside Rules and Regulations Pertaining to Backyard Chickens Definitions:

"at large" in the case of a chicken, means being outside a coop or run.

"chicken" means a domestic fowl kept for its eggs or meat.

"chicken run" means covered secure enclosure that allows chickens' access to outdoors.

"coop" means a fully enclosed weatherproof building where chickens are kept and which the interior of includes nest boxes for egg laying, perches for the chickens to sleep on and food and water containers.

"owner" includes any person who possesses, harbours or keeps an animal or chicken and, where an owner is a minor, includes the person who is responsible for the custody of the minor.

Regulations for the keeping of backyard chickens and coops:

 The license for a chicken coop is in accordance with By-Law 2015-106 which is renewable each calendar year (on or before December 31) with the Building and Licensing Department and registered in the identification system.

• A maximum of 6 chickens are permitted on any residential property.

• A maximum of 12 chickens are permitted on lots in the rural designation that are less than 2 hectares in area.

- All chickens must be at least 4 months old.
- The keeping of roosters is prohibited.
- A tenant must obtain permission from the property owner to keep chickens on the owner's property.
- The owner of the chickens must reside on the property where the chickens are kept.
- Chickens must be kept in their coops from 9:00 p.m. to 6:00 a.m.
- Chickens must be kept in an enclosed chicken run when not in their coop.

 Chicken coops and runs shall be a distance of at least 3 metres from the rear lot line and at least 3m from any side lot line of the dwelling lot on which the chicken coop is located.

- Chicken coops and chicken runs shall be located at least 15 metres from any school.
- Chicken coops and chicken runs shall be located at least 7.5 metres from any church or business.

 Chicken coops and chicken runs shall be a minimum distance of 3 metres from all windows and doors of dwellings that are located on an abutting property.

- Chicken coops are not permitted in any front or side yard.
- Chicken coops and chicken runs shall be maintained in a clean condition and the coop shall be kept free of obnoxious odors, substances and vermin.

• Stored manure shall be kept in an enclosed structure such as a compost bin in accordance with compost regulations, and no more than three cubic feet shall be stored at any one time.

• Home slaughter of chickens is prohibited and any deceased chickens shall be disposed of at a livestock disposal facility or through the services of a veterinarian.

TOWNSHIP OF MCNAB/BRAESIDE PART 1 Provincial Offences Act By-law 2015-106 "Regulate Backyard Chickens"

ITEM	Short Form Wording	Section	Payment within 7 days	Set Fines - excluding costs
1	Keep Chickens – No Permit	5.1 (a)	\$125.00	\$150.00
2	Fail to Allow Inspection	5.1 (b)	\$125.00	\$150.00
3	Prohibited Chicken Coop/Run - excess of 10 square metres	5.1 (c)	\$125.00	\$150.00
4	Prohibited Chicken Coop – excess of 10 feet high	5.1 (c)	\$125.00	\$150.00
5	Chicken Coop/Run – less than 3 metres from lot line	5.1 (d)	\$125.00	\$150.00
6	Chicken Coop/Run – less than 15 metres from school	5.1 (e)	\$125.00	\$150.00
7	Chicken Coop/Run – less than 7.5 metres from church or business	5.1 (f)	\$125.00	\$150.00
8	Chicken Coop/Run – prohibited location – front yard or side yard	5.1 (g)	\$125.00	\$150.00
9	Possess, keep, or harbour more than 6 chickens - residential	5.1 (h)	\$125.00	\$150.00
10	Possess, keep, or harbour more than 12 chickens – rural with less than 2 ha.	5.1 (i)	\$125.00	\$150.00
11	Tennant – Keep Chickens without owner consent	5.1 (j)	\$125.00	\$150.00
12	Owner – fail to reside on property	5.1(k)	\$125.00	\$150.00
13	Prohibited activity - slaughter	5.1 (l)	\$125.00	\$150.00
14	Improper disposal of chicken carcass	5.1 (l)	\$125.00	\$150.00
15	Fail to confine chickens – 9pm – 6am	5.1 (m)	\$125.00	\$150.00
16	Fail to maintain chicken coop/run	5.1 (n)	\$125.00	\$150.00
17	Chicken manure – improper storage	5.1 (o)	\$125.00	\$150.00
18	Permit chickens to become a nuisance	5.1 (p)	\$125.00	\$150.00
19	Permit chickens to be at large	5.1 (q)	\$125.00	\$150.00

NOTE: The penalty provision for the offences indicated above is section 6 of this By-law # 2015-106,



Township of Horton COUNCIL / COMMITTEE REPORT

Title:	Date:	
Zoning By-Law Amendment	Council/Committee:	Planning Committee/Council
Application – Tomlinson Next Steps	Author:	Hope Dillabough, CAO/Clerk
	Department:	Planning

RECOMMENDATIONS:

None at this time. Information purposes only.

BACKGROUND:

In November 2022, MHBC Planning, on behalf of R.W. Tomlinson Ltd., submitted a Zoning By-Law Amendment (ZBLA) Application to permit a Class A pit below the water table on property located on Storyland Road. The ZBLA proposed to amend Schedule A to the Comprehensive Zoning By-Law to rezone the subject lands from Extractive Industrial Reserve (EMR), and Rural Exception 9 (RU-E9) to Extractive Industrial-Exception 2 (EM-E2). The exception zone is required to reduce the interior side yard width, exterior side yard width and rear yard depth setbacks.

Notice of a Public Meeting was circulated in May to property owners within a 120 meter radius and also posted on the property, as per the Planning Act legislated guidelines. This public meeting was held June 15th, 2023, at 4 p.m. at the Horton Community Centre. This meeting allowed Council to listen to resident's concerns as it pertained to Tomlinson's proposal, as well as allow Tomlinson to make a public presentation.

It has been requested that a report be presented to Council outlining the framework of 'Next Steps' as it pertains to this proposal.

- County of Renfrew Planning Staff received the Public Meeting Minutes adopted by Horton Township Council July 4th, 2023;
- Some members of Council have met with Craig Bellinger, Tomlinson representative, to ask further questions and seek clarification of information;
- County of Renfrew Planning Staff will compile and consolidate all of the questions and comments from the Public Meeting to ensure everything is answered accordingly;
- County Staff is also compiling the submitted written comments/letters/concerns to ensure adequate response;
- > Peer Review Assessments are being finalized and once completed, they will be shared publicly;
- Horton Council has opted for the Environmental Impact Study to also be peer reviewed. There is an estimated timeframe of 4 weeks for this to be completed.
- Horton Council has decided to hold an additional Public Meeting. This will not be scheduled until all of the information (mentioned above) has been compiled and consolidated.
- Once all information has been compiled a full report will be updated and shared publicly online and in paper format if requested;
- > All who own property within a 120 meter radius will be notified of the additional public meeting;
- All who registered and signed in at the previous Public Meeting will also be notified of the additional public meeting;

After second public meeting – the ZBLA By-law will be brought forward at a Regular Council Meeting for discussion and consideration.

ALTERNATIVES: N/A at this time.

FINANCIAL IMPLICATIONS: N/A at this time.

ATTACHMENTS: None

Prepared by: Hope Dillabough, CAO/Clerk



Township of Horton COUNCIL / COMMITTEE REPORT

Title:	Date:	July 18 th , 2023
	Council/Committee:	Council
Protective Services Committee Chair's Report –July 6 th , 2023	Author:	Hope Dillabough, CAO/Clerk
	Department:	Protective Services

RECOMMENDATIONS:

THAT Council accept the Protective Services Committee Chair's Report as information.

BACKGROUND:

Fire Chief's Report and Update

Fire Chief Cole presented the report. He reviewed the call outs/responses between May 17th and July 4th which totalled to 11. There was a lot of discussion as it pertained to the private roads assessment and the Limited Service Residential (LSR) zoning. The importance of public education was discussed to ensure that private road residents understand they may have limited services from the municipality due to not being on a municipally owned and maintained road. It was discussed that staff will look more in depth to the definition of LSR upon the Comprehensive Zoning By-Law review slated for 2024.

Fire Chief Cole and Deputy Fire Chief Fortier discussed the current burn ban and the Restricted Fire Zone (RFZ) placed on much of Ontario by the Ministry of Natural Resources and Forestry. It was determined that more consistent messaging from the province is key in educating residents about the burn ban issued. There have been 3 burning complaints that the Fire Department followed up on regarding the ban, and 2 of those included charges laid.

Fire Chief Cole also reviewed that the Horton Fire Department sent 4 firefighters and one apparatus under the request of Mutual Aid by Greater Madawaska's Fire Department for one full day to assist in the Centennial Lake Bush Fire.

The Request for Proposal for the provision of the replacement for Truck 9837 has been issued and scheduled to close August 1st. There was discussion that staff may look at potentially extending the deadline.

Fire Chief Cole briefly reviewed the 'Essentials of Fire Protection' online course for staff and Committee members. Generally, it's been offered in person however they have shifted to online learning only at this time. Chief Cole is to provide CAO/Clerk Dillabough the link for the course so she can send it to council and staff.

ALTERNATIVES: N/A

FINANCIAL IMPLICATIONS: N/A

CONSULTATIONS: N/A

Prepared by: Hope Dillabough, CAO/Clerk



COUNCIL / COMMITTEE REPORT

Title:	Date:	July 17, 2023
	Council/Committee:	Council
Recreation Chair's Report – July 13 th , 2023	Author:	Amanda Ryan, Receptionist/Clerk
	Department:	Recreation

RECOMMENDATIONS:

THAT Council receive the Recreation Committee Chair's Report as information.

BACKGROUND:

Canada Day Event Review

Chair Humphries reviewed Ms. Ryan's report and unofficial income statement. The Canada Day event was a success, and a huge thank you to all who donated money efforts and time.

<u>Bar</u>

Ms. Ryan brought forward names of those who have signed up to volunteer and to be paid as bartenders.

Moved by Claire Rouble Seconded by Nellie Kingsbury

THAT Council approve the following individuals as volunteers at the community center upon remittance of a clean vulnerable sector check; Agatha White- Crogie, Judith Ballard and Shelley Cram.

Carried

June Dance

Ms. Ryan provided an unofficial income statement from the dance. There was a profit from the night. Ms. Ryan informed the committee that volunteer Marg Bauer has secured bands for the months of September and October. Hosting a November dance will be determined in the fall.

Tables for Monday Craft Group

Ms. Ryan informed the committee there has been no action related to this item.

Fruit Fundraiser

Ms. Ryan updated the committee on the tasks completed to date on the fundraiser. Prices will remain the same as the previous year despite the small increase in costs. Flyers to be included with the tax bills have been printed.

Mayor Bennett updated the committee on the land that is for sale adjacent to the community centre. Discussion commenced. How to pay for the land was not discussed.

<u>Moved by Claire Rouble</u> <u>Seconded by Sharon Bennett</u>

THAT the Recreation Committee would like for council to further investigate purchasing the parcel for sale (west half of lot 11) and or the three parcels that are adjacent to the community centre.

Carried

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Ms. Ryan stated that she is still looking for someone who would be interested in looking after stocking the bar and arranging bartenders for events at the hall.

Ms. Ryan brought forward the idea of Marg Bauer of a Sunday afternoon jam session. A business plan was requested to come forward.

The next meeting date was changed to September 21st, a week later than the usual scheduled event.

ALTERNATIVES: N/A

FINANCIAL IMPLICATIONS:

CONSULTATIONS: Ross Peever, Real Estate agent

Prepared by:Amanda Ryan, Receptionist/ClerkReviewed by:Hope Dillabough, CAO/Clerk

THE CORPORATION OF THE TOWNSHIP OF HORTON

BY-LAW NO. 2023-35

Being a by-law to authorize an Agreement between

GREENWOOD PAVING (Pembroke) Ltd.

AND

THE CORPORATION OF THE TOWNSHIP OF HORTON

WHEREAS Council wishes to enter into an Agreement with Greenwood Paving (Pembroke) Ltd.

AND WHEREAS this Agreement pertains to the contracted services for the Rehabilitation of Mullins Road, Township of Horton;

AND WHEREAS the Township awarded Tender PW 2023-04 to Greenwood Paving (Pembroke) Ltd. by Resolution No.: 2023-137 at the Regular Council Meeting held June 20th, 2023.

NOW THEREFORE the Council of the Corporation of the Township of Horton **ENACTS AS FOLLOWS**:

- 1. That the Mayor and CAO/Clerk be authorized to execute the Agreement attached hereto as 'Appendix I' and forming a part of this by-law with Greenwood Paving (Pembroke) Ltd.
- 2. That this by-law shall come into effect upon the passing thereof.

Read a First and Second Time this 18th day of July, 2023

Read a Third Time and Passed this 18th day of July, 2023

MAYOR David M. Bennett

CAO/CLERK Hope Dillabough

FORM OF AGREEMENT

	This Agreement made on this	day of	, 20
Between	The Township of H	lorton	
	Hereinafter called t The Party of the Fin	1 V	"
And			of the
			in the
	County of Renfrew	, Province of Ont	ario
	Hereinafter called t	he 'Bidder '	

The Party of the Second Part

Now acknowledge,

That the Municipality and the Bidder in consideration of the fulfillment of their respective promises and obligations herein set forth, covenant, and agree with each other as follows:

- i. The following documents, together with this Form of Agreement, constitute the Contract:
 - All addenda issued prior to Bid closing.
 - Terms and Conditions
 - Form of Tender
 - Resolution of Council
- ii. The Bidder undertakes and agrees to provide all necessary labour, equipment, materials, and supervision, unless otherwise indicated, together with all work incidental thereto to perform all Work described in the Contract.
- iii. IN CONSIDERATION WHEREOF, said party of the second part agrees to pay the Bidder for all work done, based on the prices of the Form of Tender and subject to additions, deductions as provided for in the Contract.
- iv. The Bidder and the Municipality for themselves, their successors, administrators, and permitted assigns undertake and agree to the full performance of their respective obligations under the Contract.
- v. This Contract may not be assigned by any Party without the express written consent of the other Party.
- vi. IN WITNESS WHEREOF the parties hereto have hereunto set their hands and seals the day and year first above written or cause their corporate seals to be affixed, attested by the signature of their proper officers, as the case may be.



HORTON TOWNSHIP Rehabilitation of Mullins Road - HCB



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Bidder Corporate Seal or Signature of Witness Signature of Authorized Signing Officer

Date:

Year / Month / Day

Date: Year / Month / Day

TOWNSHIP OF HORTON

CAO/Clerk Hope Dillabough

Date:

Year / Month / Day

Mayor Dave M Bennett

Date:

Year / Month / Day



HORTON TOWNSHIP PW 2023-04 Rehabilitation of Mullins Road - HCB

CORPORATION OF THE TOWNSHIP OF HORTON

BY-LAW NO. 2023-36

A BY-LAW TO CONFIRM PROCEEDINGS OF THE COUNCIL OF THE TOWNSHIP OF HORTON AT THE REGULAR COUNCIL MEETING HELD JULY 18TH, 2023

WHEREAS Subsection 5(1) of the Municipal Act, 2001, S.O. 2001, Chapter 25, as amended, provides that the powers of a municipal corporation are to be exercised by its Council;

AND WHEREAS Subsection 5(3) of the said Municipal Act provides that the powers of every Council are to be exercised by by-law;

AND WHEREAS it is deemed expedient and desirable that the proceedings of the Council of the Corporation of the Horton at this meeting be confirmed and adopted by by-law;

THEREFORE the Council of the Township of Horton enacts as follows:

- 1. That the actions of the Council at the meeting held on the 18th day of July, 2023 and in respect of each motion, resolution and other action passed and taken by the Council at its said meetings, is, except where the prior approval of the Ontario Municipal Board or other body is required, hereby adopted, ratified and confirmed as if all such proceedings were expressly embodied in this by-law.
- 2. That the Head of Council and proper officers of the Corporation of the Township of Horton are hereby authorized and directed to do all things necessary to give effect to the said action or to obtain appropriate approvals where required, except where otherwise provided, and to affix the Corporate Seal of the Corporation of the Township of Horton to all such documents.
- 3. That this By-Law shall come into force and take effect upon the passing thereof.

READ a first and second time this 18th day of July, 2023.

READ a third time and passed this 18th day of July, 2023.

MAYOR David M. Bennett

CAO/CLERK Hope Dillabough