

Municipality of Huron East
DESIGN - BUILD TENDER FOR THE CONSTRUCTION of
PROPOSED FIRE HALL ADDITION

Sealed Design-Build Tenders will be received by the Municipality of Huron East until 2:00 p.m. local time Tuesday June 6, 2023. Tenders are to be delivered to the Municipality of Huron East Office, 72 Main Street South, Seaforth, Ontario.

Tenders are to be addressed to the Municipality of Huron East – Joint Operations Centre.

Scope of Work:

Construction of a proposed renovation and addition to existing Brussels Fire Hall incorporating ambulance services. Construction to be wood frame construction, concrete foundation, slab-on-grade, steel siding, and steel roofing. Site work and site drainage will be tendered with the building. Proposed site is located at 51 CN Road in Brussels (existing Brussels Fire Hall)

When submitting the tender, the following will be required:

- 10% Bid bond or \$100,000 certified cheque payable to the Corporation of Municipality of Huron East.
- Agreement for 50% Labour, Material and Performance Bond.
- List of qualified subtrades and list of similar projects.
- Contractor's estimated time to complete the project, with projected start date.
- Complete proposal specifications and drawings.
- Failure to provide any one of the above may result in the rejection of the tender.

Tenders will be available from the Owner, at their office located in Seaforth on Friday May 12, 2023 after noon. Digital pdf's will be available for E-mail after registration by Contractor with Owner. Office hours 8:30 am to 4:30pm

Contractor site meeting is scheduled for Tuesday, May 23, 2023 from 11am to noon, for site inspection and inspection of test pits. Attendance is mandatory.

The lowest or any Tender will not necessarily be accepted. Submission of a Tender constitutes a waiver of any action by the Bidders resulting from the Owner's acceptance of any Tender.

Tender Closing Date: Tuesday, June 6, 2023; 2:00 p.m. local time. To be delivered to:

Municipality of Huron East
72 Main St. S., PO Box 610 Seaforth, Ontario N0K 1W0
Contact: Kent Readman, Fire Chief
Ph. (519) 527-0160 X-28 E-mail: firechief@huroneast.com

Closing date: Tuesday June 6, 2023 @ 2:00 p.m. local time.

DATE: _____.

SUBMITTED BY: _____.

ADDRESS: _____.

_____.

Dear Sirs:

1. Having carefully examined the:
INSTRUCTIONS TO BIDDERS
DRAWINGS AND SPECIFICATIONS

ADDENDUM NO. _____ DATED _____.

ADDENDUM NO. _____ DATED _____.

ADDENDUM NO. _____ DATED _____.

as prepared by Municipality of Huron East, as well as the site and the conditions affecting the work for:

Joint Operations Centre
Proposed Addition to Brussels Fire Hall
51 CN Rd, Brussels, ON N0G 1H0

We hereby offer to furnish labour and materials required to complete the whole work in accordance with said Documents for the following (breakdown for proportioning of costs and accounting purposes):

Work relating to fire hall renovation and addition (included excavation and backfill):

\$(_____) + \$(_____) H.S.T.

Work relating to ambulance station addition (include excavation & backfill):

\$(_____) + \$(_____) H.S.T.

Site work outside of building footprint:

\$(_____) + \$(_____) H.S.T.

Asphalt:

\$(_____) + \$(_____) H.S.T.

Stipulated sum including above breakdown of \$(_____)

_____/100 dollars plus

\$(_____) H.S.T. in lawful money of Canada if notified of the acceptance of the offer within sixty (60) days of the time set for the opening of the Tenders. We hereby agree that the offer shall remain open for the said time whether any other Tender has previously been accepted or not.

2. OPTION PRICES

Provide option prices for the following items. Owner will include option prices dependent on budget constraints. The option prices will be considered when selecting successful Contractor.

The following, lists the amount of extras for items **NOT** included in the base contract price:

- a) Cost for extra concrete (in place) that may be required for "deepened" footings and foundation. Cost to include all excavation, backfill, forming, concrete and rebar.

\$_____ per cubic metre plus \$(_____) H.S.T.

- b) Cost for extra granular "B" material (in place) that may be required if unsuitable material is exposed under the building. Cost to include all excavation, removal of fill off site, dumping costs, backfill, granular, compaction, all equipment and labour. Based on compacted cubic meter.

\$_____ per cubic metre plus \$(_____) H.S.T.

3. SECURITY

Accompanying the Tender is a Bid Bond in the amount of 10% of the Tender Price, made payable to the Municipality of Huron East, in lawful money of Canada. Contractor to provide agreement to bond from the bonding company for 50% labour and material and 50% performance.

4. TENDER ACCEPTANCE

In submitting this Tender we recognize the Owner's right to accept any Tenders at the price submitted or to reject any or all Tenders. Submission of Tender constitutes a waiver of any action by the Bidders, resulting from the Owner's acceptance of any Tender.

The Owner reserves the right to waive any information or minor irregularities in any Tender received. The Owner shall not make reimbursement for any costs or losses incurred as a result of the preparation of this Tender.

Municipality of Huron East will review tenders in their entirety prior to awarding contract. Review will include total tender cost, tender breakdown, list of subtrades and proposal specifications submitted by Contractor.

5. TIME

- a) Contractor to enclose proposed timing in proposal specification for project completion. Provide number of weeks for completion based on July 10th award of project ____ weeks

6. SUBCONTRACTORS (Appendix "A")

- a) Listed below are the names (and location) of the Subcontractors upon whose proposals this Tender is based. We recognize that the list of Subcontractors will be considered in the selection of the successful bidder.
- b) We recognize that Tenders may not be accepted unless accompanied by a complete list of Subcontractors, and that no names, either of Subcontractors or Contractor's own forces, may be changed after submission of tender; unless good and sufficient cause is submitted in writing and written approval received from Owner.
- c) Refer to General Conditions, Article GC3.8 "Subcontractors", for additional information governing Subcontractors.

d) <u>List of Subcontractors</u>	Name & City/Town
Consultants	_____.
Excavating, Backfilling, Grading	_____.
Asphalt	_____.
Concrete Foundation	_____.
Concrete Floor	_____.
Rough Carpentry	_____.
Structural Steel	_____.

6. SUBCONTRACTORS (Appendix "A") - cont'd

Metal Fabrications _____.

Steel Doors & Frames _____.

Steel Roofing _____.

Trusses _____.

Cabinetry _____.

Flooring (Tile) _____.

Flooring (Epoxy) _____.

Plumbing _____.

Mechanical _____.

Electrical _____.

9. If selected as Contractor, we agree to sign CCDC 14 Design-Build Stipulated Price Contract (as amended by Owner), for our tendered price.

Signature

Name

Title

Witness

Signature

Name

Title

Witness

Name of Company

Address

Date

Telephone Number of Signing Officer

Fax Number of Signing Officer

Project Title Joint Operations Centre
Proposed Fire Hall Addition - Brussels Station
51 CN Rd, Brussels, ON N0G 1H0

Owner Municipality of Huron East
72 Main St. S., PO Box 610
Seaforth, Ontario N0K 1W0
Contact: Kent Readman, Fire Chief
Ph. (519) 527-0160 X-28
E-mail: firechief@huroneast.com

General Information:

The Municipality of Huron East is looking to construct an addition to the existing Brussels Fire Hall to incorporate Huron County Ambulance. Contractor will be responsible for a “turn-key” facility including design consultants, mechanical and electrical work. The site work related to the proposed expansion will be included in project. Contractor to incorporate changes to existing site servicing, as required.

Tender is Design-Build with the Contractor providing construction drawings suitable for building permit application. All Design Consultants to be supplied by Contractor.

Preliminary drawings provided with Design-Build tender package are for general information, outlining requirements as determined by owner. These drawings are not to be used for construction drawings – Contractor’s design team to verify “code compliance”.

The following work will be completed by Owner:

- Security system if required.
- All furnishings unless listed otherwise.

Tender Submission:

Contractors are to submit their proposal of work on their letterhead outlining the scope of work they propose.

Include with tender submission the following:

- Contractor’s proposal specifications and proposal drawings.
- The tender form attached.
- 10% bid bond or \$100,000 certified cheque and agreement for 50% material, labour & performance bond.
- **Tenders to be delivered to Owner by 2:00 p.m. local time, Tuesday June 6, 2023.**
- All tenders to be irrevocable for 60 days.

Contractor to attend site meeting on **Tuesday May 23, 2023 at 11 am.**

- Review of existing building and site servicing
- Soil bearing and depth of any fill to be verified by Contractor during test pit excavation.

General:

- Design professionals and construction drawings to be supplied by the Contractor. Drawings to be suitable for building permit application – including building drawings, electrical and mechanical.
- Contractor to provide final drawings to Owner for approval prior to submission for permits or start of Construction.
- Building permit application to be completed by Contractor and submitted to Municipality of Huron East for building permit, including all building permit fees (paid for by Contractor).
- Upon completion of project, complete "As-Built" drawings to be completed by Contractor and submitted to Owner.
- \$5,000,000 liability insurance and property insurance for the full amount of the contract to be provided by the Contractor.
- Contractor to submit Notice of Project to Ministry of Labour.
- Building construction to be completed in accordance with applicable guidelines and codes at time of tendering.
- Contractor to provide temporary heat, temporary hydro, temporary trailer, all security fencing and toilets to complete the work.
- It is General Contractor's responsibility to co-ordinate all subtrades – this includes co-ordination during the tendering process to ensure all aspects of the project are covered.
- Bi-weekly job site meeting to be held between Owner, Contractor's Consultants and Contractor.

Sitework:

- It is the Contractor's responsibility to organize all locates and determine exact location of underground servicing.
- Contractor to complete all sitework as required.
- Any excess fill to be removed from site (Contractor to include cost in tender).
- Contractor to supply and install granular "A" and granular "B" as required.
- Placement & Compaction of all fills to be completed by Contractor.
- Contractor to complete all fine grading after completion of construction, including topsoil and seeding.
- Include all asphalt (min. of 4" in truck access and 3" in parking areas). Line painting to be completed by Contractor.
- Include all excavation and backfill for building, water, sanitary, electrical, phone and aprons.
- Electrical and phone service to be completed by Contractor including all related layout, excavation & backfill.
- Contractor to attend site test pits to be excavated by Owner on Tuesday May 23, 2023 at 11 am. to verify to their satisfaction:
 - Soil bearing and depth of any fill to be verified by Contractor during test pit excavation.
- As part of the site work related to building construction, Contractor to include the following:
 - Topsoil to be stripped and stockpiled on site for re-use (remove excess from site). Location to be arranged with Owner.
 - Minimum 18" granular "B" and 6" granular "A" to be installed.
 - All excavation & backfill
 - All servicing and related excavation & backfill.
 - Contractor to verify existing elevations and determine amount of fill and related work required.
 - All storm drainage can be sheet flowed in same direction as current storm flow.

Foundations:

- All concrete to be a minimum of 25 MPa @ 28 days.
- Foundation walls & footings to be reinforced as required by Contractor's Consultants.
- Provide sleeves as required by mechanical & electrical. General contractor to confirm any sleeve locations with all subtrades prior to pouring concrete.

Concrete Floors & Aprons:

- All interior concrete to be a minimum of 32 MPa @ 28 days c/w 6% air entrainment.
- All exterior concrete to be a minimum of 32 MPa @ 28 days c/w 6% air entrainment.
- Seal concrete with Sealtight CS-309 in conformance to manufacturer's instructions.
- 1 1/4" sawcuts @ 15'o/c +/- to be provided - fill with Sealtight "Rezi-Weld"

Exterior Walls:

- Refer to building section (minimum sizing). Contractor's Engineer to verify all structural components.
- Insulation as noted on drawings.
- Interior as per drawings & Contractor's proposal specifications.
- Siding to be 26 ga. pre-finished diamond rib siding. Colour to be selected by Owner. All paint to be minimum 10000 series paint.

Interior Walls:

- 2x4 and 2x6 studwalls
- Interior as noted on sections.
- Drywall finish in office area.
- Durable water resistant finish in all other areas.
- Provide concrete curbs around walls where separating rooms from apparatus area.
- Provide plumbing chase in washrooms c/w access panels as required.

Roof:

- Pre-engineered roof system, designed for commercial use, conforming to Ontario Building Code loading requirements. Design loads listed on building section Note increased loading due to post-disaster design. All wood truss to be fabricated in conformance to current TPIC guidelines and Ontario Wood Truss Fabricator's Association Quality Manual. Minimum size of all wood truss members to be 2x4 S-P-F. Truss gusset plates to be centred on all joints where possible.
- Truss bearing to be tied to wall with hurricane clips.
- Steel roofing to suit 4/12 roof pitch (26 ga. pre-finished steel). Colour to be selected by Owner. All paint to be minimum 10000 series paint.
- R-60 blown ceiling insulation.
- 6 mil poly vapour barrier.
- 26 ga. steel ceiling liner.
- Provide steel beams and lintels as required to complete the work.

Trims:

- All trims to match adjacent surfaces. Painted wood trims is not acceptable.
- All roof flashing to be 26 ga. pre-finished steel. All steel finishes to be minimum 10000 series paint.
- Flashings to be in conformance to manufacturer's recommendations. Trims & flashings to provide a weathertight envelope. Provide 5" eavetroughing c/w downspouts.
- Review any questionable details with Contractor's Consultant prior to proceeding with work.

Doors & Windows:

- All doors to be specified on Contractor's proposal.
- Exterior mandors: 16 ga. insulated hollow metal, manufactured from Wipe Coat Galvanized Steel. Mandoor frames: 16 ga. hollow metal, manufactured from Wipe Coat Galvanized Steel. Annodized aluminum entrance sets.
- All barrier free controls as required by Ontario Building Code.
- Interior office mandors: Solid core maple doors. Mandoor frames: 16 ga. hollow metal, manufactured from Wipe Coat Galvanized Steel. Solid Core Maple doors in office area.
- All hardware to be Sargent "grade 1" or equal. All hardware to have satin chrome finish. All passage & lockets to be lever style. Contractor to supply and install electric strikes for all FOB locations as noted on floor plan.
- Final keying schedule to be verified by Owner. Owner to arrange locksmith to key doors to suit after completion of project.
- All overhead doors to be polycarbonate - bronze finish c/w 3" highlift hardware, weather-stripping and jack shaft operators.
- All windows to be vinyl c/w brick molding.

Finishes:

- All painting to be completed by Contractor. Paint to be a premium quality Benjamin Moore or equal. Before commencing with work ensure all surfaces have been treated for any defects.
- Prepare surfaces to the applicable codes. Sand and dust between each coat.
- Apparatus floor of the Ambulance Station to have epoxy coating including integral cove base.
- All flooring in Ambulance office space to be ceramic tile c/w ceramic cove base.
- Suspended acoustic tile: CGC Elite Series - Cheyenne with recessed tile/bar (2'x2')
- Install all washroom accessories, including barrier free grab bars. Contractor to provide blocking where required for all accessories. Buddsteel or equivalent
- All cabinetry to be completed by Contractor. Contractor to provide blocking where directed by manufacturer.

Mechanical:

- All mechanical to be included in tender.
- All work to comply with current plumbing and gas fitting codes. Call for all inspections as required by Chief Building Official (C.B.O.). Test all systems as required by Building Code, Owner, Contractor's Engineer and C.B.O.
- Mechanical contractor to be responsible for all required permits, inspections and related costs.
- Include all gas, sanitary and water connections for the building. Provide separate meters for Ambulance Station.
- Provide water supply header with shut-offs at service entrance into utility area. Provide additional shut-offs at each fixture.
- Provide natural gas water heaters.
- All water supply lines to be insulated. Conceal all water lines where possible – do not surface mount in “finished” areas.
- Supply and install all gas piping.
- Provide washroom fixtures as noted on drawings.
- Provide hot & cold hose bibs.
- Provide kitchen fixtures and associated plumbing.
- Install floor drains as required by related codes, proposed building use and where shown on drawings.
- Trench drain to have galvanized “flat plate” grating with 3/8” dia. holes.
- Supply and install gas-fired HVAC equipment c/w associated venting and piping.
- All gas piping to be painted yellow.
- Install fire dampers where required.
- Provide HRV units for apparatus bays, gear room and office area.
- Provide exhaust fan complete with motorized inlet and related gas monitoring sensors for the apparatus floors.
- Contractor to organize servicing with local authorities. Any utility fees associated with connection and service to be paid for by Owner.
- Supply and install washroom exhaust fans c/w ductwork. Electrician to wire.
- Place new sewer c/w all floor drain piping and fittings - arrange for required inspections prior to pouring of floor.
- Completed “As-Built” drawings must be submitted to Owner prior to release of final payment.

Electrical:

- All electrical to be included in tender.
- All electrical to be done in accordance with the latest CSA electrical codes and bulletins.
- Electrical Contractor to provide permit and include all related costs. Electrician to arrange for service locate with the local authority and pay for any related fees.
- Electrician to visit site to inspect existing service and familiarize himself with work to be completed.
- Wire equipment as required in drawings and specifications. Check all equipment name plates to verify load and determine wiring gauges.
- Electrician / Engineer to review existing service in fire hall. Provide new electrical service and back feed existing, as required to supply building. Provide separate meter for Ambulation Station

Electrical (cont'd):

- Provide receptacles & outlets as noted on drawings and as required for equipment and related codes.
- Provide lighting and switches as required and as shown on drawings. Switching to be arranged to allow access at any exterior mandoor. Provide motion sensor switches.
- Install emergency exit signs and emergency lighting to conform to applicable codes.
- All wiring to be concealed with appropriate connections throughout, along with consideration for wet service areas.
- Supply and install wiring & controls for ventilation in wash rooms.
- Provide suitable wiring to HVAC units.
- Provide exhaust fan and interconnected louvers. Provide manual switch in conjunction with gas monitoring device.
- Circulation fans to be supplied and installed by Electrical Contractor.
- All telephone and communication cabling to be completed by Electrical subtrade c/w conduits and terminations.
- Security, sound and paging systems to be completed by Owner.
- Completed "As-Built" drawings must be submitted to Owner prior to release of final payment. "As-Built" drawings to clearly identify all circuits, panels and other information required for future servicing.

For any questions or clarifications contact:

Kent Readman, Fire Chief

Ph. (519) 527-0160 X-28

E-mail: firechief@huroneast.com

MUNICIPALITY of HURON EAST

JOINT OPERATIONS CENTRE PROPOSED ADDITION

MAY 12, 2023

GENERAL NOTES

POST DISASTER – LOW HAZARD OCCUPANCY (F3)
ASSUMED SOIL BEARING CAPACITY = 145 kPa (3000 psf)

CLIMATIC DATA:

$S_s = 2.6$ kPa

$S_r = 0.4$ kPa

1/100 WIND = 0.62 kPa – POST-DISASTER BUILDING

SNOW LOAD COEFFICIENTS:

$C_b = 0.8$; $C_d = 1.0$

$C_s = 1.0$; $C_w = 1.0$

STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

THE 2012 ONTARIO BUILDING CODE COMPENDIUM – O. REG. 332/12

CAN3-23.3 – DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS

CAN/CSA-S16.1 – STEEL STRUCTURES FOR BUILDINGS – LIMIT STATES

CAN/CSA-086.1 – ENGINEERING DESIGN IN WOOD – LIMIT STATES

USE FACTOR OF SAFETY OF
2.0 ON LIVE LOAD AND
1.25 ON DEAD LOAD

ALL SPECIFICATIONS NOTED ARE MINIMUM.
CONTRACTOR TO VERIFY ANY ADDITIONAL
REQUIREMENTS RELATED TO APPLICABLE
CODES & REGULATIONS AND CONFORM AS
REQUIRED.

OWNER IS NOT RESPONSIBLE FOR
CONTRACTOR'S FAILURE TO VERIFY ANY OR
ALL ADDITIONAL REQUIREMENTS.

CONTRACTOR IS RESPONSIBLE TO RETAIN
ARCHITECT & PROFESSIONAL ENGINEER
AS REQUIRED TO REVIEW DESIGN BUILD TENDER
INFORMATION FOR COMPLETENESS.

CONTRACTOR'S DESIGN PROFESSIONALS TO REVIEW
& SEAL CONSTRUCTION DRAWINGS AND PROVIDE
PERIODIC INSPECTIONS AS REQUIRED BY
BUILDING CODE AND BUILDING DEPARTMENT

**DESIGN-BUILD PROPOSAL DRAWINGS
NOT FOR CONSTRUCTION**

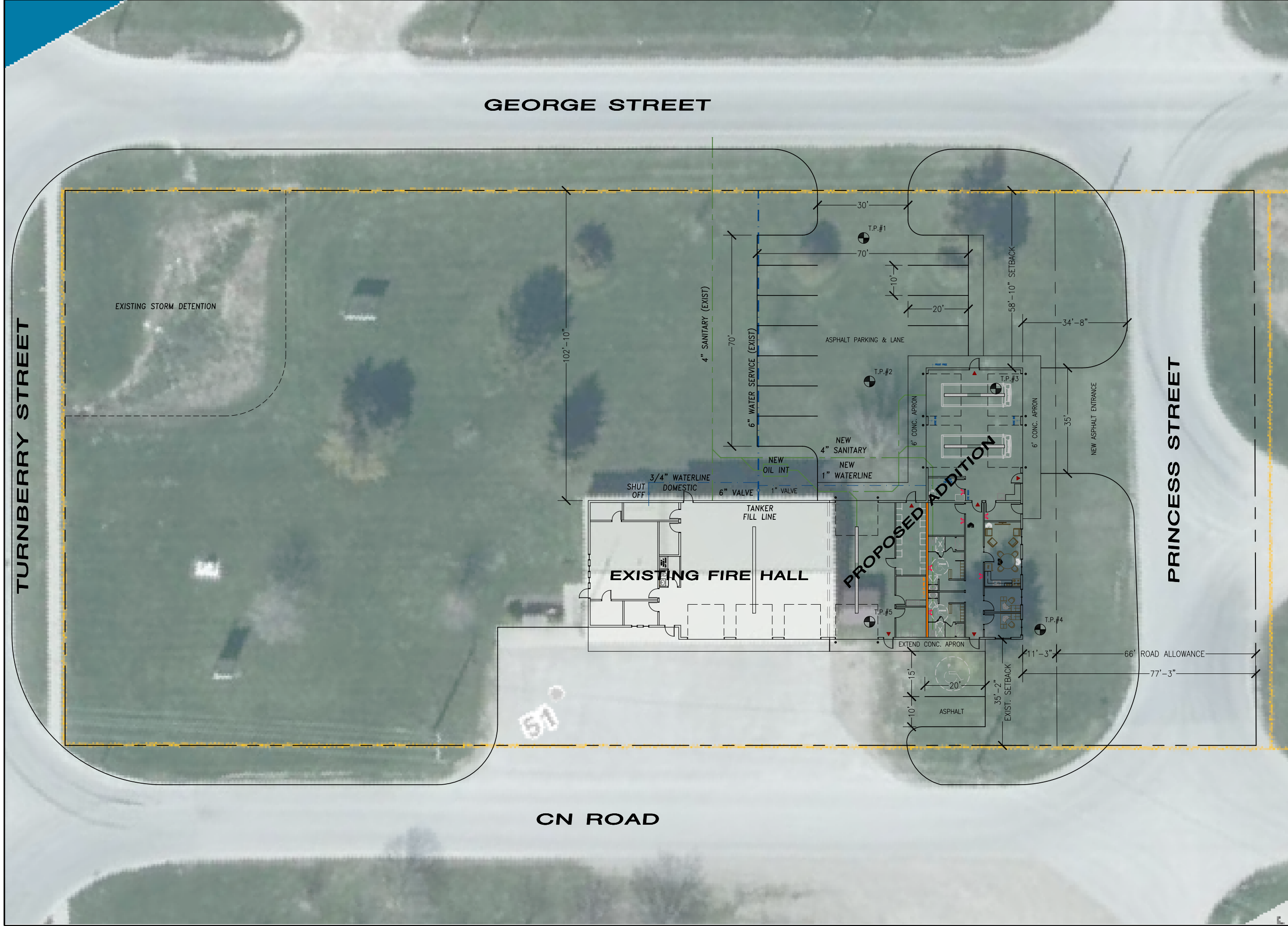
**CONTRACTOR TO APPLY FOR AND
OBTAIN BUILDING PERMIT (INCLUDE
ALL RELATED FEES)**

HURON EAST

DRAWING SCHEDULE

DWG.#	REV.#	DATE	DRAWING TITLE
SP-1	0	MAY 12, 2023	OVERALL SITE PLAN
A-1	0	MAY 12, 2023	GENERAL ARRANGMENT
A-2	0	MAY 12, 2023	FIRE HALL SECTION
A-3	0	MAY 12, 2023	OFFICE SECTION
A-4	0	MAY 12, 2023	AMBULANCE SECTION
A-5	0	MAY 12, 2023	ELEVATIONS
E-1	0	MAY 12, 2023	ELECTRICAL POWER
E-2	0	MAY 12, 2023	LIGHTING
M-1	0	MAY 12, 2023	MECHANICAL

DESIGN BUILD TENDER



SITE NOTES

ALL EXISTING ELEVATIONS TO BE VERIFIED BY BIDDER / GENERAL CONTRACTOR
BLEND TO ALL EXISTING ELEVATIONS
DRAINAGE FLOW TO BE MAINTAINED
ALL LANES TO HAVE A MINIMUM BASE OF 18" GRAN"B" AND 6" GRAN."A" - REDUCE GRAN"B" TO 12" ON ORIGINAL SUB-SOIL
ASPHALT AREAS:
ALL FIRE TRUCK ROUTES TO HAVE (2) LAYERS OF 1 1/2" HL-8 WITH TOP LAYER OF 1 1/2" HL-3 (4 1/2" TOTAL)
REMAINDER OF PARKING AREAS TO HAVE (2) LAYERS OF 1 1/2" HL-4
ALL PARKING LINES TO BE 2" WIDE
PAINTED WHITE
ALL FILLS TO BE SUPPLIED, PLACED AND COMPACTED BY THE CONTRACTOR
CONTRACTOR TO REMOVE ALL UNSUITABLE & EXCESS FILL FROM SITE
CONTRACTOR TO LOCATE ALL U/G SERVICES PRIOR TO ANY EXCAVATION
MIN. 6" TOPSOIL TO BE PROVIDED OVER ALL LANDSCAPED AREAS
ALL EXTERIOR CONCRETE: $f'_c = 32 \text{ MPa}$
c/w 6% AIR & FIBERMESH
EXTERIOR APRONS & WALKS TO HAVE A MIN. OF 18" COMPACTED GRANULAR BASE
SANITARY AND WATER CONNECTIONS TO BE COMPLETED IN CONFORMANCE WITH MUNICIPALITY REQUIREMENTS
ALL FOOTINGS TO BEAR ON UNDISTURBED SUB-SOIL FREE OF ANY ORGANIC MATERIAL OR ENGINEERED GRANULAR FILL
SERVICE CONNECTIONS TO BE ARRANGED WITH APPLICABLE AUTHORITIES
ELECTRICAL CONTRACTOR TO CONTACT LOCAL HYDRO AUTHORITY & BELL FOR SERVICE LAYOUT INCLUDE ALL RELATED COSTS
NEW WATER SERVICE TO BE BURIED MINIMUM 5' DEEP
ALL U/G ELECTRICAL TO BE BURIED MIN. 36" DEEP c/w MARKING TAPE @ 18"

T.P.#
REPRESENTS TEST PIT LOCATION DURING SITE INSPECTION WITH OWNER



HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

ISSUED FOR TENDER		GENERAL SITE PLAN	
SCALE	1" = 1'-0"	DWG.#	SP-1
DATE	MAY 12, 2023		0

NOTE: APPARATUS FLOOR MUST BE VENTILATED IN ACCORDANCE WITH O.B.C. 6.2.2.3.. AND MINISTRY OF LABOUR DATA SHEET 5-07

PROVIDE GAS MONITORING DEVICE LINKED TO EXHAUST FAN AND MECHANICAL AIR INLET TO LIMIT THE CONCENTRATION OF CARBON MONOXIDE TO BELOW 35 PARTS PER MILLION OF AIR (FOR A NORMAL 8 HOUR WORKDAY)

PROVIDE SENSORS THROUGHOUT APPARATUS BAYS
PROVIDE MANUAL SWITCH IN CONJUNCTION WITH MONITORING DEVICE.

GENERAL NOTES

BUILDING TO BE DESIGNED AS POST DISASTER GROUP F - DIVISION 3; STORAGE GARAGE OFFICE, MEETING & WASHROOMS ARE ANCILLARY SPACE

BUILDING AREA = 7,912sq.ft. (735sq.m.)
BUILDING IS (2) STOREYS FACING (2) STREETS
BUILDING IS CONSTRUCTED IN CONFORMANCE TO O.B.C. 3.2.2.78.

COMBUSTIBLE CONSTRUCTION ACCEPTABLE
ALL FLOOR ASSEMBLIES TO BE FIRE SEPARATIONS WITH 45 MIN. RATING

SPRINKLERING NOT REQUIRED
ROOF & MEZZ. - NO FIRE RATING REQ'D
MAX. TRAVEL DISTANCE IN CONFORMANCE TO O.B.C. 3.4.2.5. = 98' (30m)

OCCUPANT LOADING BASED ON EXISTING
FIRE HALL = 24 PERSONS (UNCHANGED)
NO CHANGES IN WASHROOMS PROPOSED

OCCUPANT LOADING AMBULANCE ADDITION
BASED ON USE = 6 PERSONS
WATER CLOSETS REQ'D FOR INDUSTRIAL OCCUPANCIES: TABLE 3.7.4.9

PROPOSED NUMBER OF WATER CLOSETS MEETS THE OCCUPANT LOADING
ALL DIMENSIONS TO FINISHED SURFACES
NOTIFY BOTH ENGINEER & BUILDING OFFICIAL FOR FRAMING & INSULATION/VAPOUR BARRIER

INSPECTION PRIOR TO INTERIOR LINER
REFER TO MANUFACTURER SPEC'S FOR ALL ROUGH STUD OPENINGS

PROVIDE ATTIC ACCESS TO EACH ATTIC SPACE AS PER O.B.C. 9.20.5.2. HATCH TO BE WEATHERSTRIPPED AND INSULATED WITH THE FINISH TO MATCH ADJACENT AREAS

ALL FURNISHINGS TO BE SUPPLIED & INSTALLED BY OWNER

REPRESENTS SIGNED FIRE EXIT (WITH EMERGENCY LIGHTING)

F.EX. FIRE EXTINGUISHER LOCATION

CLIMATIC DATA:

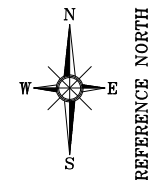
$S_s = 2.6 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$
 $1/100 \text{ WIND} = 0.62 \text{ kPa}$
SNOW LOAD COEFFICIENTS:
 $C_b = 0.8$; $C_a = 1.0$
 $C_s = 1.0$; $C_w = 1.0$

TOP CHORD DEAD LOAD = 0.75 kPa
BOT CHORD DEAD LOAD = 0.5 kPa
BOT CHORD LIVE LOAD = 0.5 kPa

SEISMIC DATA

$S_a(0.2) = 0.120$ $S_a(1.0) = 0.051$
 $S_a(0.5) = 0.079$ $S_a(2.0) = 0.017$
 $P_G = 0.039$

USE FACTOR OF SAFETY OF
2.0 ON LIVE LOAD AND
1.25 ON DEAD LOAD



HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

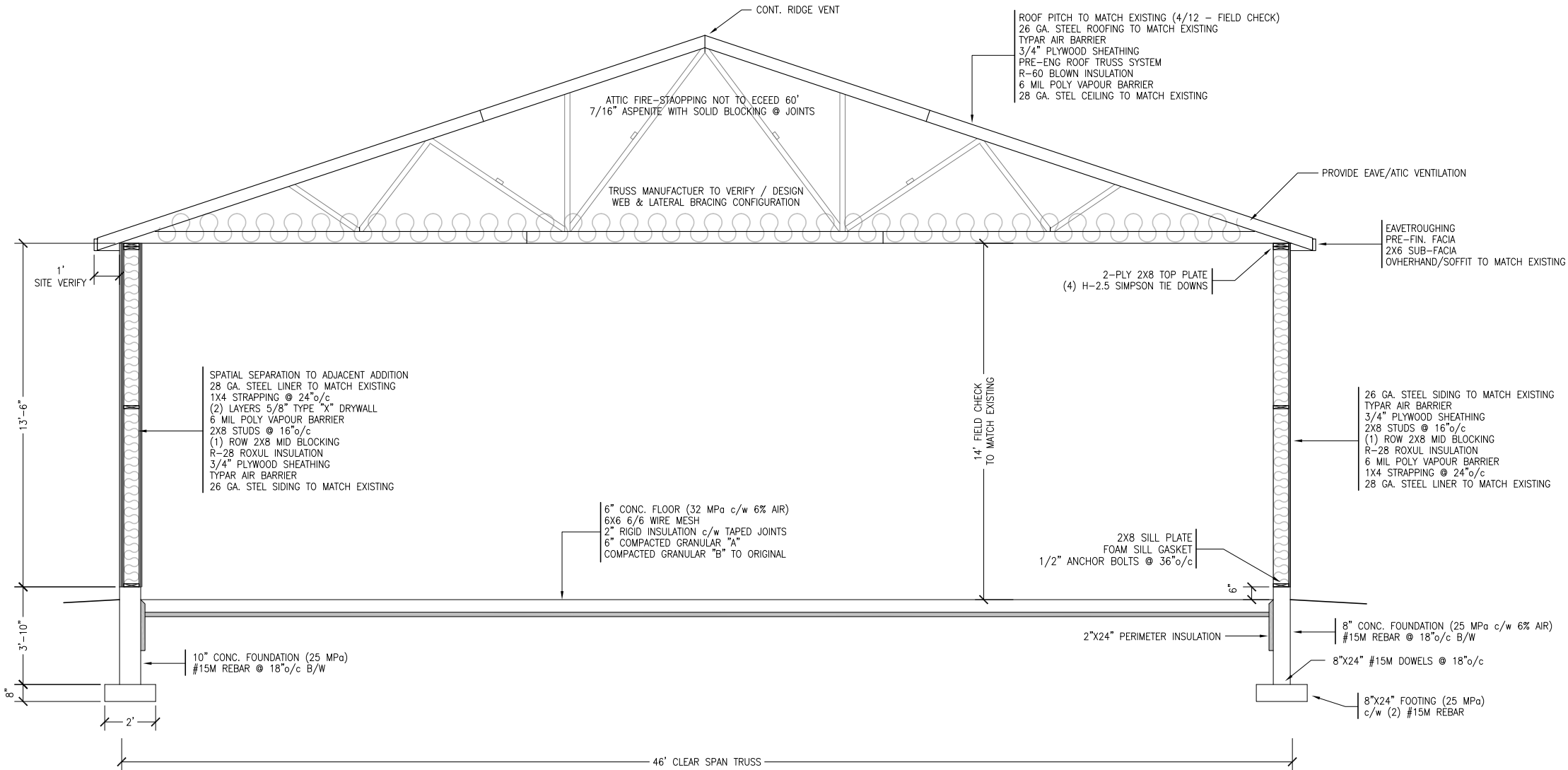
ISSUED FOR TENDER		GENERAL ARRANGEMENT	
SCALE	3/32" = 1'-0"	DWG.#	A-1
DATE	MAY 12, 2023		0

TRUSS DESIGN

USE FACTOR OF SAFETY OF 2.0 ON LIVE LOAD

POST DISASTER DESIGN
GROUND LOADS: $S_s = 2.6 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$
1/100 WIND PRESSURE = 0.62 kPa
SNOW LOAD FACTORS:
 $C_b = 0.8$; $C_w = 1.0$
 $C_a = 1.0$; $C_s = 1.0$
TRUSSES TO BE DESIGNED FOR UNBALANCED
LOADING WITH $C_d = 1.25$
TOP CHORD DEAD LOAD = 0.75 kPa
BOTTOM CHORD DEAD LOAD = 0.5 kPa
BOTTOM CHORD LIVE LOAD = 0.5 kPa
ALL ROOF TRUSSES TO BE SIZED AND DETAILED ON
THE TRUSS SUPPLIER'S SHOP DRAWINGS. THESE
DRAWINGS SHALL BEAR THE SIGNATURE AND
SEAL OF THE REGISTERED PROFESSIONAL ENGINEER
RESPONSIBLE FOR THEIR DESIGN.

TRUSS MEMBERS TO BE 2x4 OR GREATER.
TRUSS MANUFACTURER TO VERIFY BEARING REQUIREMENTS – IF BEARING
SHOWN IS NOT ADEQUATE, PROVIDE BEARING BRACKETS AS REQUIRED.
GRADING TO BE No. 2 S–P–F OR BETTER.
"GRADE STAMP" TO BE PRESENT ON EACH
TRUSS MEMBER – MINIMUM 1 TRUSS IN 4
PLATE PLACEMENT TOLERANCE ON DESIGN NOT
TO BE LESS THAN 1/2". WHERE POSSIBLE, ALL
CUSSET PLATES TO BE SIZED FOR CENTERING ON THE JOINT.
NO TRUSS MEMBER TO HAVE A CSI GREATER THAN 0.98
TRUSSES TO BE MANUFACTURED IN CONFORMANCE TO
ONTARIO WOOD TRUSS FABRICATOR'S ASSOCIATION QUALITY MANUAL.
TRUSS MANUFACTURER AND TRUSS ENGINEER RESPONSIBLE TO
ENSURE QUALITY CONTROL.



HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

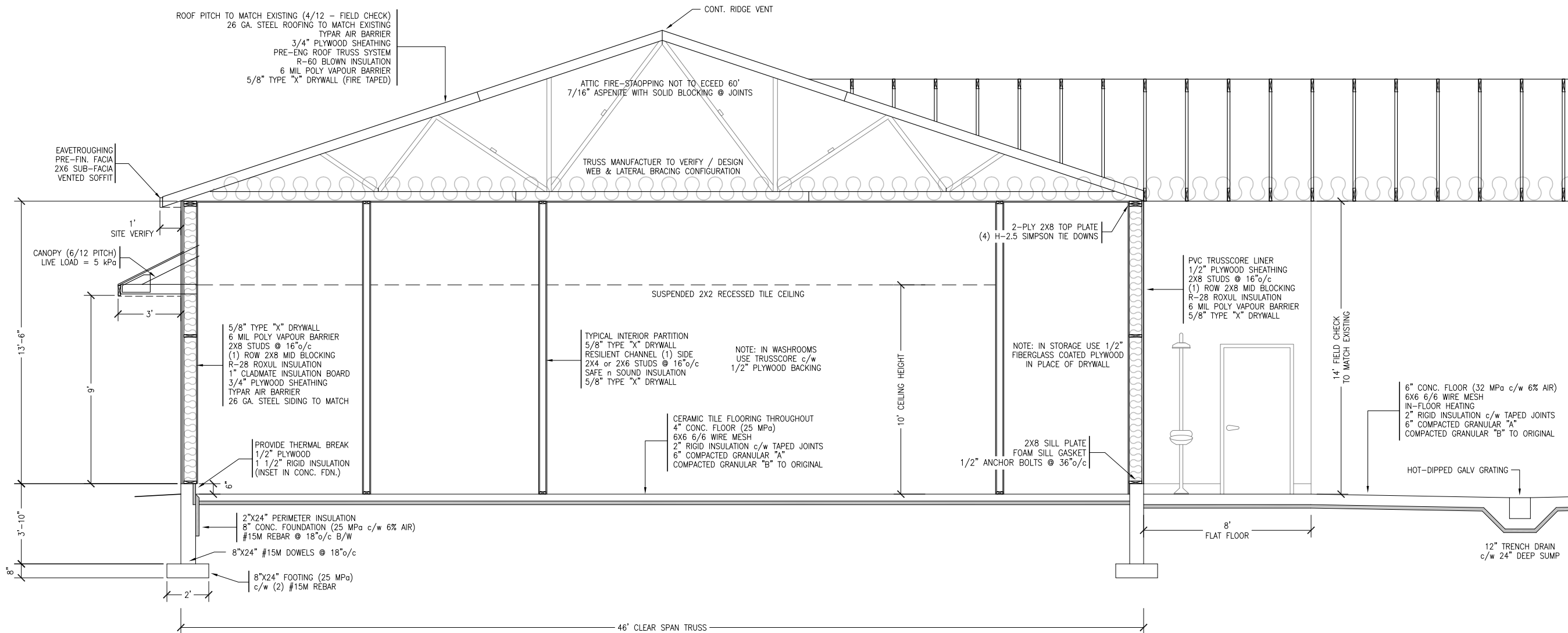
ISSUED FOR TENDER		FIRE HALL SECTION	
SCALE	3/16" = 1'-0"	DWG.#	A-2
DATE	MAY 12, 2023		0

USE FACTOR OF SAFETY OF 2.0 ON LIVE LOAD

TRUSS DESIGN

POST DISASTER DESIGN
GROUND LOADS: $S_s = 2.6 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$
 $1/100 \text{ WIND PRESSURE} = 0.62 \text{ kPa}$
SNOW LOAD FACTORS:
 $C_b = 0.8$; $C_w = 1.0$
 $C_a = 1.0$; $C_s = 1.0$
TRUSSES TO BE DESIGNED FOR UNBALANCED
LOADING WITH $C_d = 1.25$
TOP CHORD DEAD LOAD = 0.75 kPa
BOTTOM CHORD DEAD LOAD = 0.5 kPa
BOTTOM CHORD LIVE LOAD = 0.5 kPa
ALL ROOF TRUSSES TO BE SIZED AND DETAILED ON
THE TRUSS SUPPLIER'S SHOP DRAWINGS. THESE
DRAWINGS SHALL BEAR THE SIGNATURE AND
SEAL OF THE REGISTERED PROFESSIONAL ENGINEER
RESPONSIBLE FOR THEIR DESIGN.

TRUSS MEMBERS TO BE 2x4 OR GREATER.
TRUSS MANUFACTURER TO VERIFY BEARING REQUIREMENTS - IF BEARING
SHOWN IS NOT ADEQUATE, PROVIDE BEARING BRACKETS AS REQUIRED.
GRADING TO BE No. 2 S-P-F OR BETTER.
"GRADE STAMP" TO BE PRESENT ON EACH
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TRUSSES TO BE MANUFACTURED IN CONFORMANCE TO
ONTARIO WOOD TRUSS FABRICATOR'S ASSOCIATION QUALITY MANUAL.
TRUSS MANUFACTURER AND TRUSS ENGINEER RESPONSIBLE TO
ENSURE QUALITY CONTROL.



HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

ISSUED FOR TENDER		OFFICE SECTION	
SCALE	3/16" = 1'-0"	DWG.#	A-3
DATE	MAY 12, 2023		0

USE FACTOR OF SAFETY OF 2.0 ON LIVE LOAD

TRUSS DESIGN

POST DISASTER DESIGN

GROUND LOADS: $S_s = 2.6 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$

1/100 WIND PRESSURE = 0.62 kPa

SNOW LOAD FACTORS:

$C_b = 0.8$; $C_w = 1.0$

$C_a = 1.0$; $C_s = 1.0$

TRUSSES TO BE DESIGNED FOR UNBALANCED

LOADING WITH $C_a = 1.25$

TOP CHORD DEAD LOAD = 0.75 kPa

BOTTOM CHORD DEAD LOAD = 0.5 kPa

BOTTOM CHORD LIVE LOAD = 0.5 kPa

ALL ROOF TRUSSES TO BE SIZED AND DETAILED ON THE TRUSS SUPPLIER'S SHOP DRAWINGS. THESE DRAWINGS SHALL BEAR THE SIGNATURE AND SEAL OF THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR DESIGN.

TRUSS MEMBERS TO BE 2x4 OR GREATER.

TRUSS MANUFACTURER TO VERIFY BEARING REQUIREMENTS - IF BEARING SHOWN IS NOT ADEQUATE, PROVIDE BEARING BRACKETS AS REQUIRED.

GRADING TO BE No. 2 S-P-F OR BETTER.

"GRADE STAMP" TO BE PRESENT ON EACH

TRUSS MEMBER - MINIMUM 1 TRUSS IN 4

PLATE PLACEMENT TOLERANCE ON DESIGN NOT

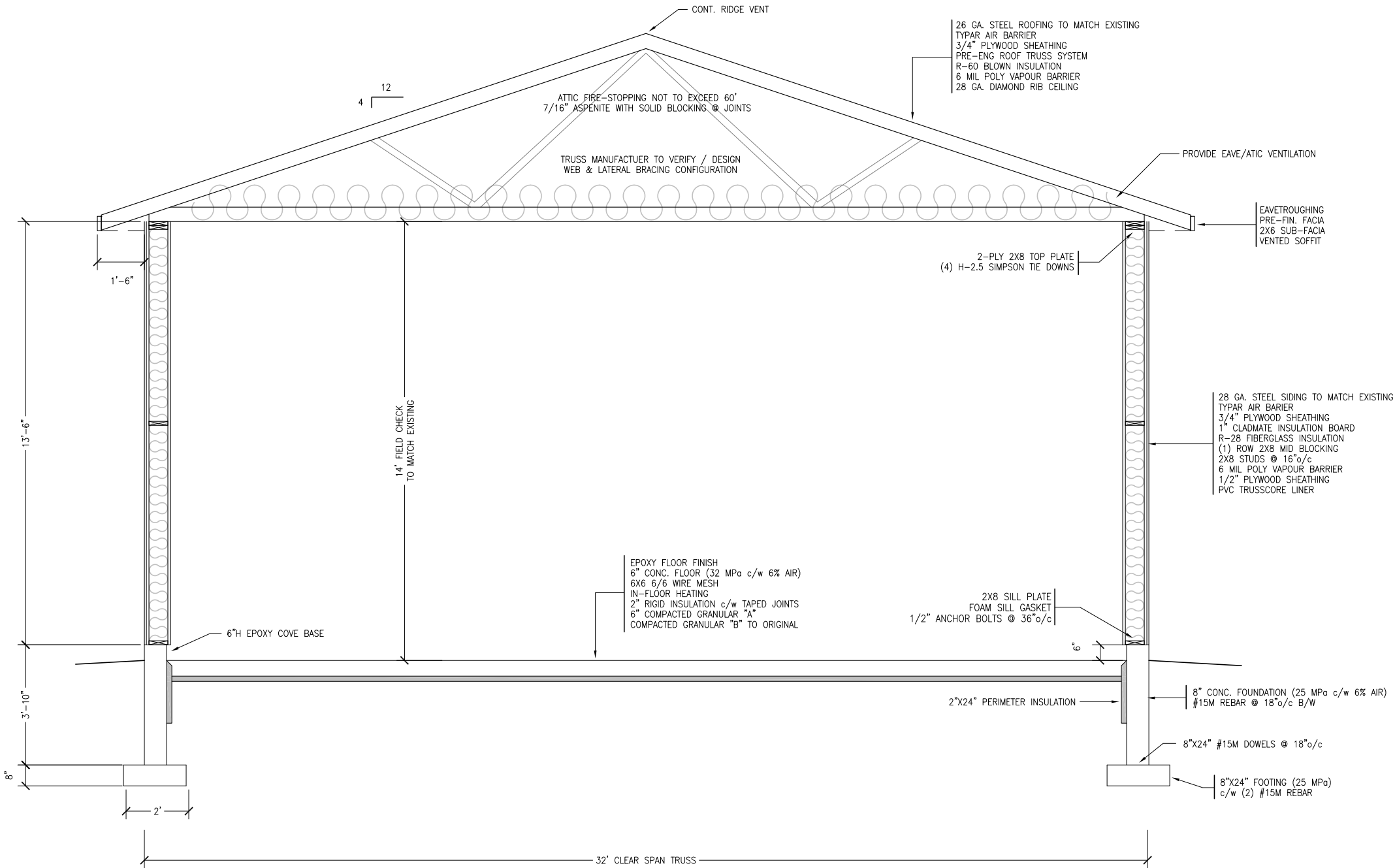
TO BE LESS THAN $1/2"$. WHERE POSSIBLE, ALL GUSSET PLATES TO BE SIZED FOR CENTERING ON THE JOINT.

NO TRUSS MEMBER TO HAVE A CSI GREATER THAN 0.98

TRUSSES TO BE MANUFACTURED IN CONFORMANCE TO

ONTARIO WOOD TRUSS FABRICATOR'S ASSOCIATION QUALITY MANUAL.

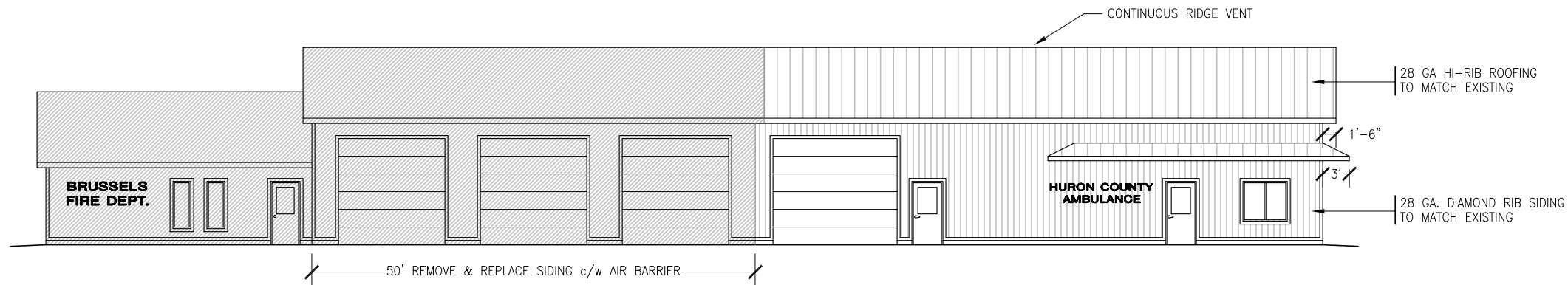
TRUSS MANUFACTURER AND TRUSS ENGINEER RESPONSIBLE TO ENSURE QUALITY CONTROL.



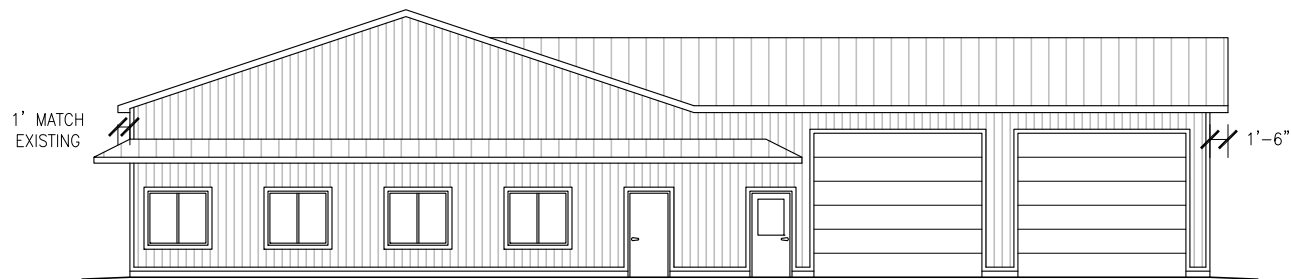
HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

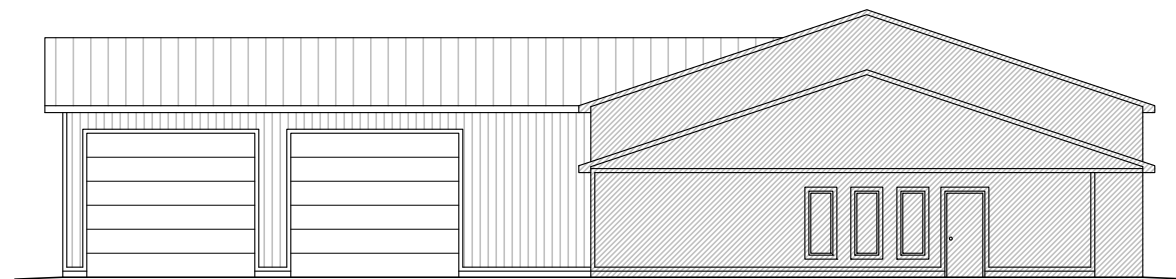
ISSUED FOR TENDER		AMBULANCE SECTION	
SCALE	1/4" = 1'-0"	DWG.#	A-4
DATE	MAY 12, 2023		0



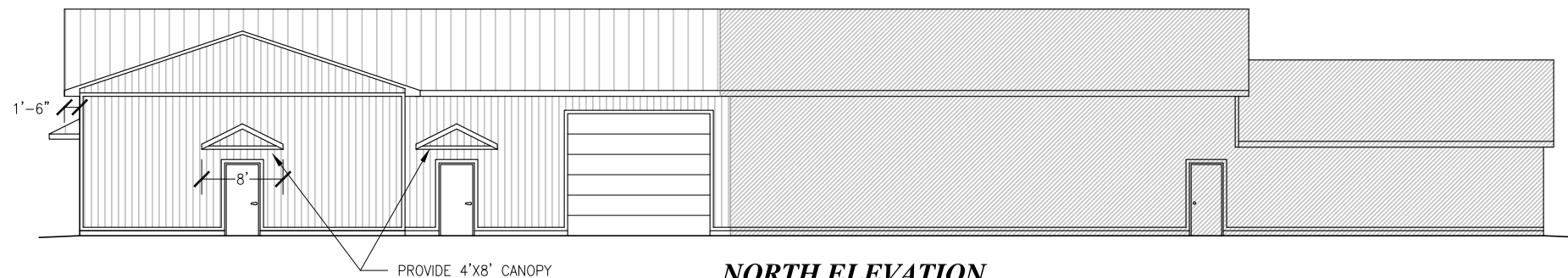
SOUTH ELEVATION



EAST ELEVATION



WEST ELEVATION



NORTH ELEVATION

***HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE***

BRUSSELS ONTARIO

ISSUED FOR TENDER		ELEVATIONS	
SCALE	1/16" = 1'-0"	DWG.#	A-5
DATE	MAY 12, 2023		0

- 120V DUPLEX RECEPTACLE
- 120V RECEPTACLE – MOUNTED ABOVE MICROWAVE SHELF
- 120V RECEPTACLE – AT CEILING c/w CORD REEL FOR TRUCKS
SEPARATE 20 AMP CIRCUIT FOR EACH TRUCK
- 120V – 15 AMP DUPLEX RECEPTACLE (SEPARATE CIRCUIT)
- 120V EXTERIOR WEATHERPROOF RECEPTACLE
- 120V DUPLEX RECEPTACLE – MOUNTED ABOVE COUNTER
- 120V WEATHERPROOF RECEPTACLE (GFI) – MOUNTED 36" ABOVE APPARATUS FLOOR

- 120V – 15 AMP GROUND FAULT CURRENT INTERRUPTED DUPLEX RECEPTACLE – MOUNTED
ABOVE COUNTER; COMMERCIAL SPEC GRADE HUBBELL WIRING DEVICE – KELLEMS #GFR5252W
- 120V – 20 AMP GROUND FAULT CURRENT INTERRUPTED DUPLEX 'T-SLOT' RECEPTACLE – MOUNTED
ABOVE COUNTER; COMMERCIAL SPEC GRADE HUBBELL WIRING DEVICE – KELLEMS #GFR5352W
- RECEPTACLE FOR EQUIP (VERIFY WITH DATA SHEETS)
- SPLIT RECEPTACLE FOR POWER DOOR OPERATOR
- PHONE JACK / CAT6E CABLE
- TV OUTLET

CEILING SPACE PLENUM

THE HVAC SYSTEMS UTILIZE THE CEILING SPACE PLENUM AS A RETURN AIR SPACE. ALL MATERIALS (INCLUDING PIPING AND INSULATION) TO HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50. ALL EXPOSED WIRING AND CABLES SHALL BE FT6 RATED. ALL WORK IN ACCORDANCE WITH OBC 3.6.4.3. SUBMIT MANUFACTURER'S DOCUMENTATION TO CONSULTANT BEFORE STARTING ANY WORK.

ELECTRICAL CONTRACTOR TO REVIEW EXISTING SERVICE
PROVIDE UPGRADE TO EXISTING SERVICE & PANELS AS REQUIRED
MAINTAIN GENERATOR CONNECTION
PROVIDE SEPARATE METER FOR AMBULANCE STATION

UTILITY ROOM LAYOUT

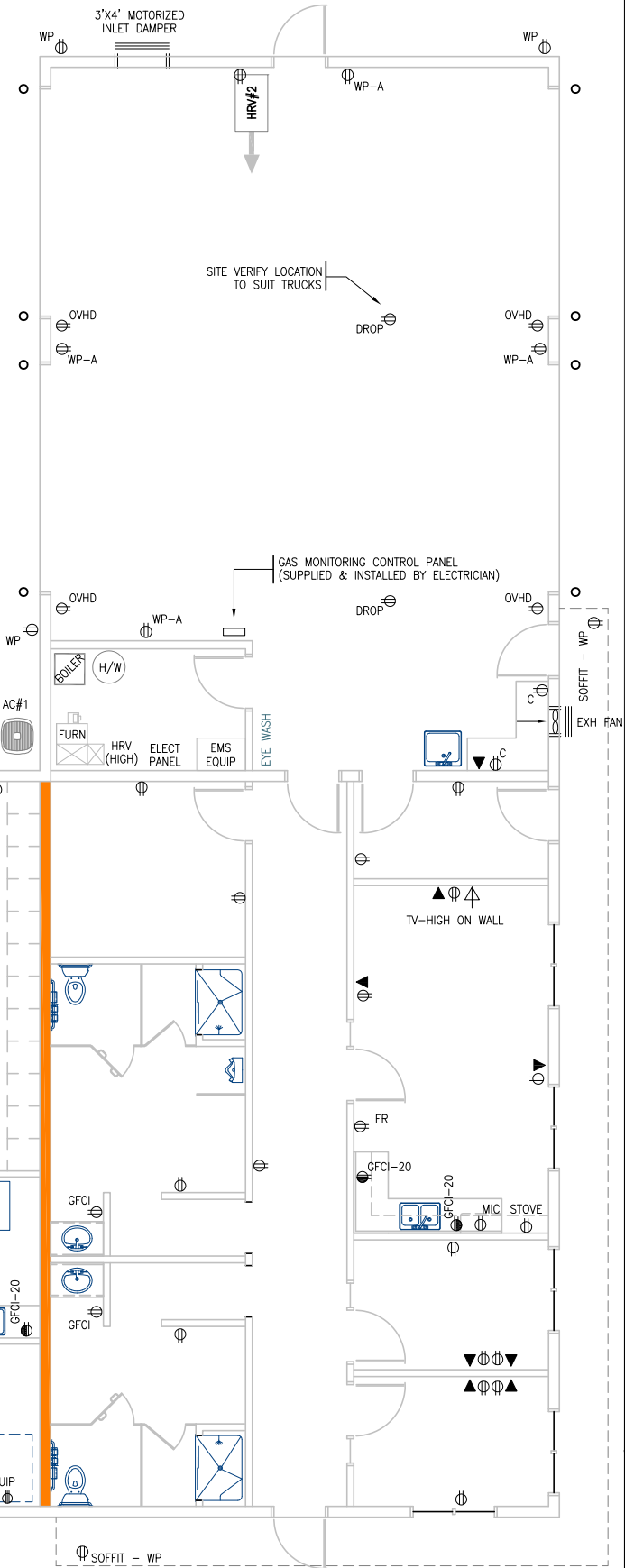
LAYOUT SHOWN FOR GENERAL PURPOSES ONLY
MECHANICAL CONTRACTOR TO FINALIZE
EQUIPMENT LAYOUT WITH OWNER & ENGINEER

EXHAUST FAN – INTERLOCK TO INTAKE DAMPER
PROVIDE HONEYWELL/ARMSTRONG GAS MONITORING DETECTOR
c/w REMOTE SENSORS EQUALLY DISTRIBUTED
LOW LEVEL ALARM TO START FAN (LOW SPEED)
HIGH LEVEL ALARM TO TRIGGER AUDIBLE ALARM & HIGH SPEED

GAS MONITORING CONTROL PANEL
(SUPPLIED & INSTALLED BY ELECTRICIAN)

3'x4' MOTORIZED INLET DAMPER
INTERCONNECTED TO EXHAUST FAN
(KEEP 12" FROM CEILING)

EXISTING FIRE HALL PROPOSED ADDITION



GENERAL NOTES

ALL ELECTRICAL INSTALLATION TO BE DONE
IN ACCORDANCE WITH THE LATES CSA
ELECTRICAL CODES AND BULLETINS
ALL WIRING SHALL BE OF A SIZE
AND TYPE APPROPRIATE FOR THE
LOADS AND ARRANGEMENT
ALL CABLES & CONDUIT TO RUN
PERPENDICULAR TO BUILDING LINES WHEN
POSSIBLE – SECURE AT ACCEPTABLE
INTERVALS
SEE TO ALL OTHER DRAWINGS FOR FANS &
HVAC EQUIPMENT – WIRE AS REQ'D –
CONSULT MANUFACTURER'S SPEC'S FOR
LOAD & VOLTAGE
ALL COMPUTER OUTLETS TO BE WIRED USING
CAT6E CABLE WITH A SINGLE UNBROKEN
LEAD BACK TO MECHANICAL ROOM
ALL TELEPHONE OUTLETS TO BE WIRED WITH
A SINGLE UNBROKEN RUN FROM MAIN
PANEL TO EACH OUTLET
ALL WASHROOM RECEPTACLES TO BE
GROUND FAULT PROTECTED
RECEPTACLES TO BE ON SEPARATE CIRCUIT
IN EACH OFFICE. LIGHTING CIRCUIT MAY
OVERLAP BETWEEN ROOMS – DO NOT TIE
INTO RECEPTACLES.
DO NOT EXCEED 6 RECEPTACLE PER CIRCUIT
IN OFFICE AREA.
DO NOT EXCEED 3 RECEPTACLES PER CIRCUIT
IN APPARATUS FLOOR.
PHOTOCOPIERS, FRIDGES AND OTHER EQUIP.
TO BE ON SEPARATE CIRCUITS
ALL RECEPTACLES TO BE COMMERCIAL SPEC.
ALL FANS (WITH EXCEPTION OF CIRCULATING)
TO BE SUPPLIED AND INSTALLED BY MECH.
CONTRACTOR – ELECTRICIAN TO WIRE

HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

ISSUED FOR TENDER		POWER	
SCALE	3/32" = 1'-0"	DWG.#	E-1
DATE	MAY 12, 2023		0

- S1

24" x 48" LED TROFFER FIXTURE (59W)
- S2

24" x 24" LED TROFFER FIXTURE (44W)
- S3

HI-BAY LED FIXTURE (200W)
- S4

4ft. LED SURFACE-WRAP FIXTURE (41W)
- LED POT LIGHT IN SOFFIT ON PHOTO-CELL CONTROL WITH TIMER OVERRIDE (11W)
- INTERIOR LED POT LIGHTS (13W)
- LED WALL PACK (FULL CUT-OFF) ON PHOTO-CELL CONTROL WITH TIMER OVERRIDE (40W)
- WP1

ALL LIGHTING CONTROLS TO CONFORM TO ASHRAE 90.1 SECTION 9.4.

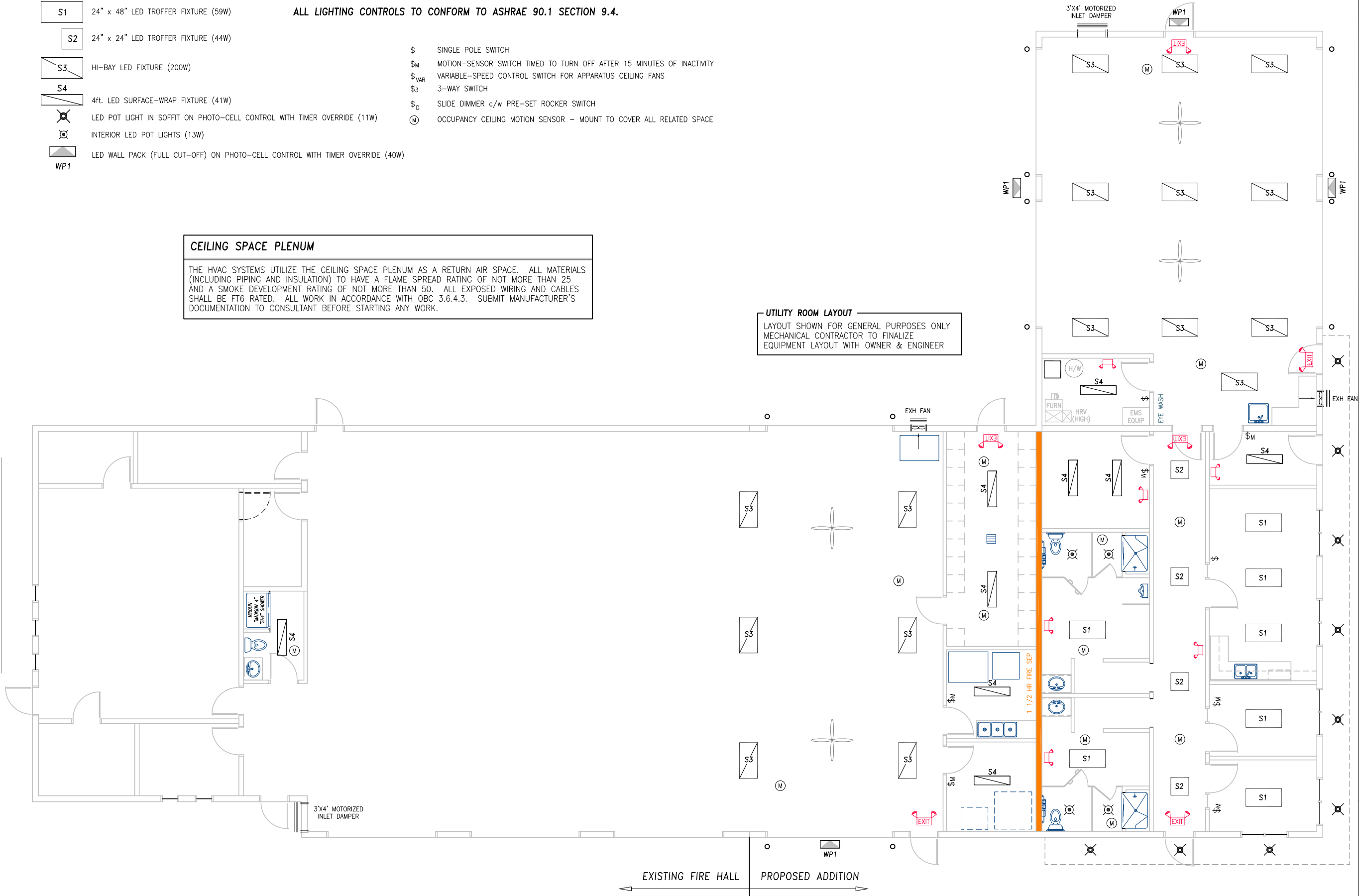
- \$
- SINGLE POLE SWITCH
- \$M
- MOTION-SENSOR SWITCH TIMED TO TURN OFF AFTER 15 MINUTES OF INACTIVITY
- \$VAR
- VARIABLE-SPEED CONTROL SWITCH FOR APPARATUS CEILING FANS
- \$3
- 3-WAY SWITCH
- \$D
- SLIDE DIMMER c/w PRE-SET ROCKER SWITCH
- M
- OCCUPANCY CEILING MOTION SENSOR – MOUNT TO COVER ALL RELATED SPACE

CEILING SPACE PLENUM

THE HVAC SYSTEMS UTILIZE THE CEILING SPACE PLENUM AS A RETURN AIR SPACE. ALL MATERIALS (INCLUDING PIPING AND INSULATION) TO HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50. ALL EXPOSED WIRING AND CABLES SHALL BE FT6 RATED. ALL WORK IN ACCORDANCE WITH OBC 3.6.4.3. SUBMIT MANUFACTURER'S DOCUMENTATION TO CONSULTANT BEFORE STARTING ANY WORK.

UTILITY ROOM LAYOUT

LAYOUT SHOWN FOR GENERAL PURPOSES ONLY
MECHANICAL CONTRACTOR TO FINALIZE
EQUIPMENT LAYOUT WITH OWNER & ENGINEER



GENERAL NOTES

ALL ELECTRICAL INSTALLATION TO BE DONE IN ACCORDANCE WITH THE LATES CSA ELECTRICAL CODES AND BULLETINS
ALL WIRING SHALL BE OF A SIZE AND TYPE APPROPRIATE FOR THE LOADS AND ARRANGEMENT
ALL CABLES & CONDUIT TO RUN PERPENDICULAR TO BUILDING LINES WHEN POSSIBLE – SECURE AT ACCEPTABLE INTERVALS
SEE TO ALL OTHER DRAWINGS FOR FANS & HVAC EQUIPMENT – WIRE AS REQ'D – CONSULT MANUFACTURER'S SPEC'S FOR LOAD & VOLTAGE
ALL COMPUTER OUTLETS TO BE WIRED USING CAT6E CABLE WITH A SINGLE UNBROKEN LEAD BACK TO MECHANICAL ROOM
ALL TELEPHONE OUTLETS TO BE WIRED WITH A SINGLE UNBROKEN RUN FROM MAIN PANEL TO EACH OUTLET
ALL WASHROOM RECEPTACLES TO BE GROUND FAULT PROTECTED
RECEPTACLES TO BE ON SEPARATE CIRCUIT IN EACH OFFICE. LIGHTING CIRCUIT MAY OVERLAP BETWEEN ROOMS – DO NOT TIE INTO RECEPTACLES.
DO NOT EXCEED 6 RECEPTACLE PER CIRCUIT IN OFFICE AREA.
DO NOT EXCEED 3 RECEPTACLES PER CIRCUIT IN APPARATUS FLOOR.
PHOTOCOPIERS, FRIDGES AND OTHER EQUIP. TO BE ON SEPARATE CIRCUITS
ALL RECEPTACLES TO BE COMMERCIAL SPEC.
ALL FANS (WITH EXCEPTION OF CIRCULATING) TO BE SUPPLIED AND INSTALLED BY MECH. CONTRACTOR – ELECTRICIAN TO WIRE

HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

ISSUED FOR TENDER		LIGHTING	
SCALE	3/32" = 1'-0"	DWG.#	E-2
DATE	MAY 12, 2023		0

FURN#1 YORK HIGH EFF. GAS FURNACE TM9Y80B - 96% EFF. 2 STAGE VARIABLE SPEED FAN
MIN. BREAKER 15 AMPS, 1/2 HP FAN 1,200 to 1,400 CFM - 1/2" DIA. GAS CONNECTION
INSTALL SMOKE DETECTOR ON COLD AIR RETURN WHICH SHUTS UNIT DOWN
PROGRAMABLE THERMOSTADT - FINAL LOCATION REVIEWED WITH ENGINEER ON SITE

AC#1 YORK 3 TON CONDENSER YCD368 - 13 SEER, R410A, 208/230 1PH
MIN. BREAKER 30 AMPS

HRV#1 ALDES H280 HRV (280 cfm - 15 AMP) c/w ASSOCIATED 6" DUCTWORK & DIFFUSERS
HRV#3 HRV#1 TIED INTO FURN#1 COLD AIR RETURN
HRV#3 DUCTED TO GEAR ROOM

HRV#2 ALDES H650 HRV (650 cfm - 15 AMP) c/w ASSOCIATED 14"x8" DUCTWORK & GRILLES
GENERAL AREA DUCTWORK FOR APPARTUS FLOOR

THE HVAC SYSTEMS UTILIZE THE CEILING SPACE PLENUM AS A RETURN AIR SPACE. ALL MATERIALS (INCLUDING PIPING AND INSULATION) TO HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50. ALL EXPOSED WIRING AND CABLES SHALL BE FT6 RATED. ALL WORK IN ACCORDANCE WITH QBC 3.6.4.3. SUBMIT MANUFACTURER'S DOCUMENTATION TO CONSULTANT BEFORE STARTING ANY WORK.

LAYOUT SHOWN FOR GENERAL PURPOSES ONLY
MECHANICAL CONTRACTOR TO FINALIZE
EQUIPMENT LAYOUT WITH OWNER & ENGINEER

The floor plan is divided into two main sections by a vertical orange line: the **EXISTING FIRE HALL** on the left and the **PROPOSED ADDITION** on the right.

EXISTING FIRE HALL:

- Top left: **ELECT METER** and **MAIN ELECT. PANEL**.
- Bottom left: **3'x4' MOTORIZED INLET DAMPER**.
- Center left: Restroom and shower area labeled **MAISON 4" 3/4" SHOWER**.

PROPOSED ADDITION:

- Top right: **EXH FAN**, **HRV#3**, and **HRV#2**.
- Center right: **PROVIDE INFRA-RED TUE HEATER** and **HOSE BIB**.
- Bottom right: **FURN**, **HRV#1 (HIGH)**, **ELECT PANEL**, **EMS EQUIP**, and **EYE WASH**.

The plan also includes various mechanical symbols for fans, heaters, and air handling units, as well as room layouts for restrooms and showers.

FIREHALL TO BE DESIGNED AS POST DISASTER
GROUP F - DIVISION 3; STORAGE GARAGE
ALL MECHANICAL INSTALLATION TO BE DONE
IN ACCORDANCE WITH THE LATEST CODES
INCLUDING: GAS FITTERS, PLUMBING &
NFPA-13 REQUIREMENTS
MECHANICAL SUBTRADE TO SUPPLY A
BALANCED SYSTEM SATISFYING BOTH
SPECIFIED AND CODE REQUIREMENTS
SUB-CONTRACTOR TO BE RESPONSIBLE FOR
ALL REQUIRED PERMITS & INSPECTIONS
ALL TAKE-OFFS TO HAVE MANUAL DAMPERS
PROVIDE PROPER CEILING DIFFUSERS
ALL TRANSITIONS, JUNCTIONS AND TURNS
TO BE CONSISTENT WITH GOOD DESIGN
MAXIMUM DUCT VELOCITIES 800 FT/MIN
MAXIMUM DIFFUSER VELOCITIES 400 FT/MIN
INSULATE ANY DUCTING IN UNCONDITIONED
SPACE
INSTALL VIBRATION INSULATOR DUCT ON
EQUIPMENT
SUB-CONTRACTOR TO BE RESPONSIBLE FOR
ALL REQUIRED PERMITS & INSPECTIONS
ALL FLOOR DRAINS TO BE PROVIDED WITH
WATER FOR TRAP SEAL
CONTRACTOR TO PROVIDE CONCRETE
SUBTRADE WITH SLEEVE LOCATIONS/SIZE
PROVIDE CLEANOUTS AT ENDS OF ALL RUNS
AND AS REQUIRED BY O.B.C.
CONTRACTOR TO SITE VERIFY FINAL
ARRANGEMENT OF DRAINS AND PIPING AND
ALL RELATED ELEVATIONS
ALL CLEANOUTS TO BE THE SAME SIZE
AS THE PIPE UP TO 4" AND NOT LESS
THAN 4" FOR LARGER PIPES.
CO-ORDINATE THE SUPPLY OF REQUIRED
TEMPERATURE AND PRESSURE RELIEF
VALVES WITH EQUIPMENT MANUFACTURER
ALL GAS PIPING LARGER THAN 2 1/2"
TO BE WELDED BY PERSONS QUALIFIED
UNDER THE BOILERS & PRESSURE
VESSELS ACT
WASHROOM EXHAUST FANS TO BE SUPPLIED
AND INSTALLED BY MECHANICAL CONTRACTOR
- ELECTRICIAN TO WIRE
FINAL THERMOSTAT LOCATION TO BE
REVIEWED BETWEEN SUBTRADE & OWNER

BRUSSELS ONTARIO			
ISSUED FOR TENDER		MECHANICAL	
SCALE	3/32" = 1'-0"	DWG.#	M-1 REV. 0
DATE	MAY 12, 2023		

MUNICIPALITY OF HURON EAST
72 Main Street South, Seaforth, Ontario N0K 1W0 Phone 519-527-1710

RECORD OF UNDERGROUND LINE REQUESTS

WATER ☒ SANITARY SEWER ☒ STORM SEWER ☒ STREET LIGHT WIRE ☒

LOCATE FOR HURON EAST

REQUEST BY Donald Hastings PHONE # 519-357-0680 Email hastee@hotmail.com
DATE RECEIVED May 5, 2022 RECEIVED BY _____
DATE REQUIRED _____ SITE CONTACT _____
LINE TO BE LOCATED AT (address and locations) _____

51 CN Rd. Brussels, ON

ON1Call# 20221928602

LIMITS OF LOCATE rear and side yards of property

DISPATCHING METHOD (circle): RADIO TELEPHONE PICK UP
LOCATION IDENTIFICATION METHOD (circle) STAKED ~~PAIN~~ OTHER
OWNER/CONTRACTOR started work (circle) YES NO

REMARKS: storm sewer and streetlight services are clear

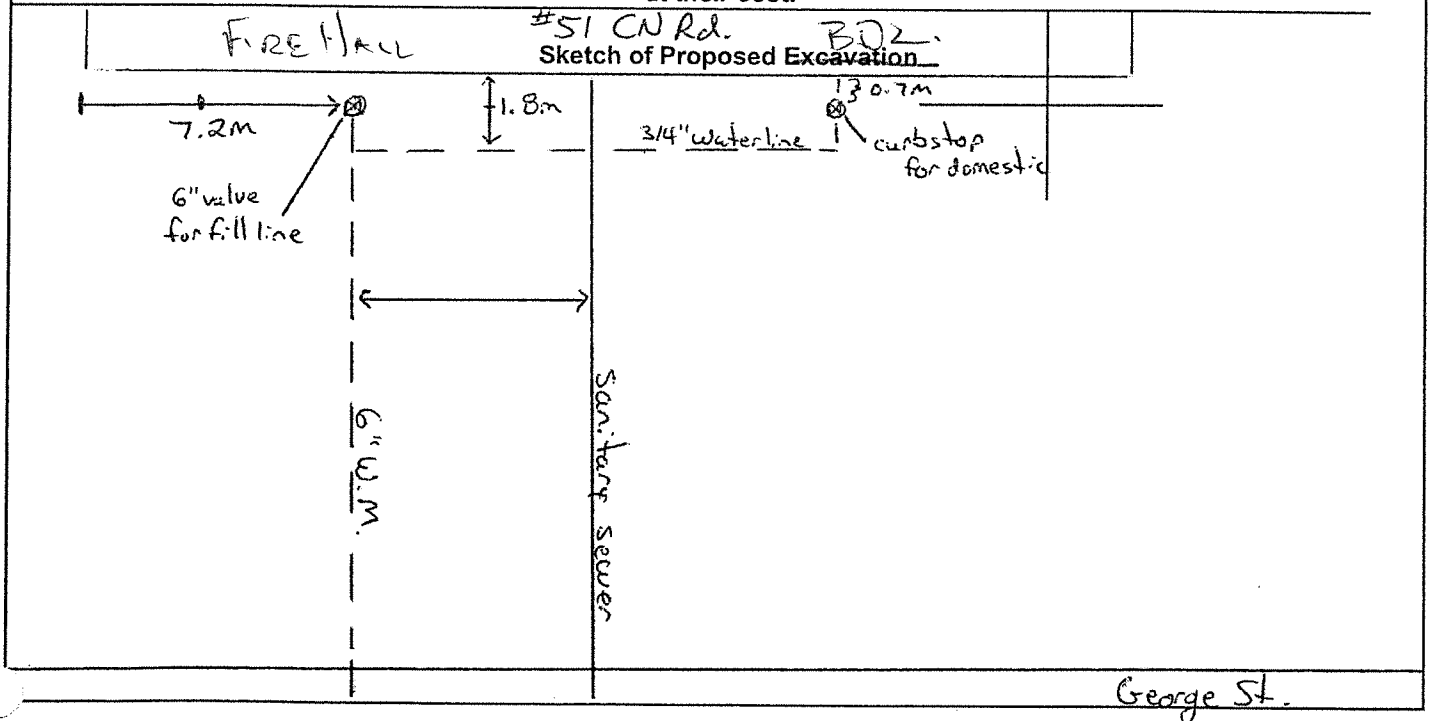
DEPTH OF UNDERGROUND PLANT VARIES AND MUST BE DETERMINED BY HAND DIGGING.

CAUTION: HAND DIG within 1 METRE OF MARKINGS

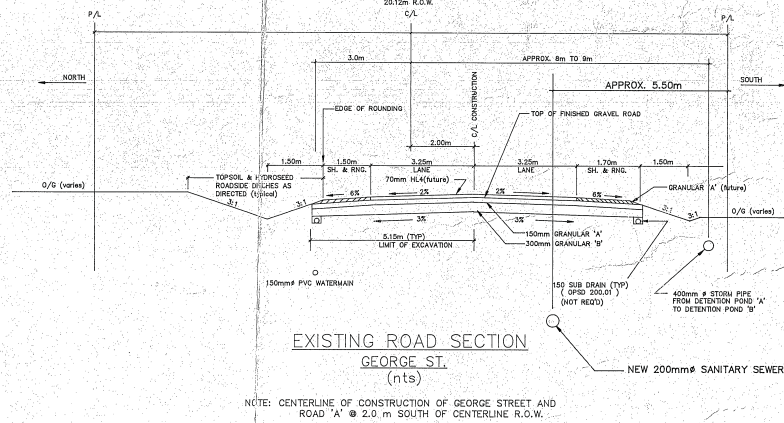
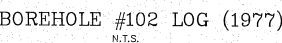
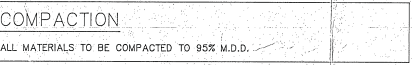
NOT RESPONSIBLE FOR ACCURACY OF LOCATES ON PRIVATE PROPERTY

THIS LOCATE IS VALID FOR 60 DAYS & IS NOT TRANSFERABLE

Huron East does not locate Municipal/Private Drains in rural areas. If a rural municipal/private drain is damaged during excavation, it is the responsibility of the person/company performing the excavation to repair such damages, at their cost.



Arrival on Site: Date: _____ Time: _____
Accepted by: Name: _____ Date: _____ Company: _____
Locator's Signature: SB Date: May 10/22 Time: 3:00pm



DRAWN BVO/TPM		DWG.NO. M255-1 R1
DESIGNED BVO/ATC		SCALE HORZ. 1:500 VERT. 1:50
CHECKED ATC	DATE AUGUST 1994	ISSUED MAY 01 2000