Sewage System Installation Report

File No. SS2024-0219
Roll No. 165142000118800

Sewage System Installation by: Rick Trotter Date: May 14, 2025

Sewage System Installation is based on:

Total Daily Sewage Flow: 1100 L/day

- ☒ No. of Bedrooms: 2 Total No. of Fixture Units 14 Total Living Space <200 m^2
- ☐ Commercial: _____

Approved Installation Class 4 Sewage System – BMEC

☒ New ☐ Repair/Alteration ☐ Replacement ☐ Leaching Bed ☒ Tank & Leaching Bed

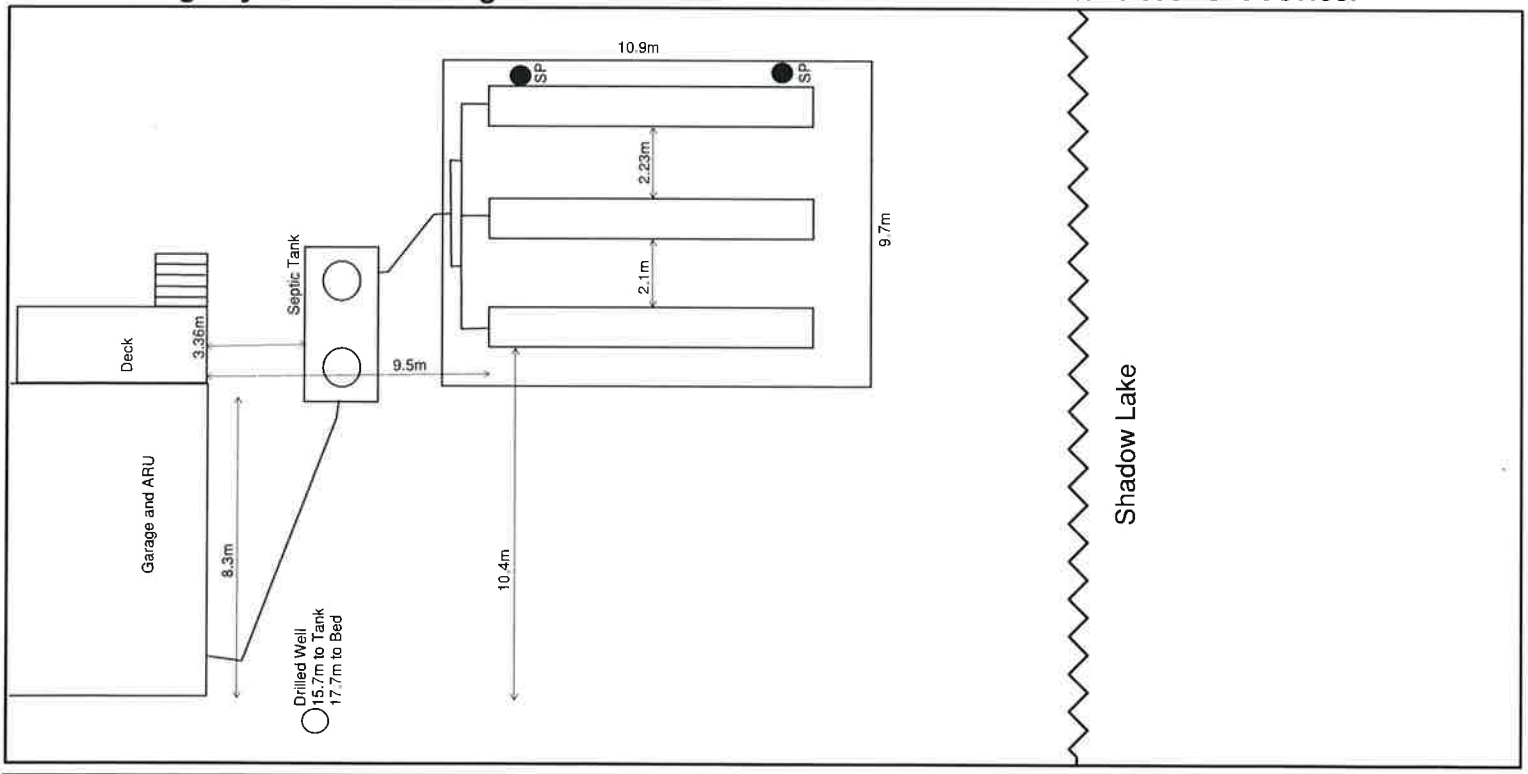
Septic Tank:

Septic Tank Working Capacity 4207 L Constructed of ☐ Concrete ☒ Plastic
Manufacturer Infiltrator ☒ Safety Device ☒ Effluent Filter

BMEC Sewage System:

Manufacturer Name Eljen No. of Units/Modules 12
Distribution System: GSF A42 ☒ Gravity ☐ Pump ☐ Siphon
System Sand Area: 105.73 m^2
Height of Unit/Module/Sand Raised Above Original Grade _____ m
Method of Detection: Metal Spike Note: Sewage System for ARU Above Garage

Sewage System is not designed to receive backwash water from a water treatment device.



Under the Building Code Act, Ontario Regulation 332/12 as amended and subject to the limitations thereof, an Installation Permit is hereby issued to: John McCormack for the use and operation of the above-noted sewage system installed and inspected at: 24 Courtland Road also known as Lot Pt 3 Concession 11 Plan RP 45R8897 Sublot/Part: 1 in the City of Kawartha Lakes.

Inspected and Issued By: Jessica Rae Date: June 17/25

Note: No change can be made to any building(s) or structures in connection with which this sewage system is used, if the operation or maintenance of the sewage system will be effected, unless approval is obtained.

SHEPHERD ENVIRONMENTAL SERVICES

6798 Hwy 35, P.O. Box 68
Coboconk, Ontario K0M 1K0

Telephone: **705-454-3744 • 705-454-3627**
705-887-1503 • 705-286-1178
Fax: 705-454-8700

CUSTOMER:

MCCORMACK, MR. JOHN
24 COURTLAND RD.
COBOCONK ON K0M 1K0

(705) 454-2930 Ext.

DIRECTIONS:

24 COURTLAND RD.
OFF HWY 35
john@kawarthawaterfront.com
ON

INV. NO. 0000149880
DATE: May-29-24
CUST. NO. 029442

TERMS: PAYABLE ON RECEIPT
VISA • M/C • DEBIT • ETRANSFER
EMT: Lshepherd@shepherdenvironmental.ca
Quote Invoice Number

ITEM NUMBER	DESCRIPTION	AMOUNT
SEPTIC5-01	PUMPING SEPTIC TANK	269.91
SEPTIC5-01	PUMPING 2nd SEPTIC TANK ON SAME PROPERTY	137.17
	www.shepherdenvironmental.ca HST	52.92

HST # R104831243

Material on site pertaining to this invoice remains the property of Shepherd Environmental Services until paid in full.
Work done close to trees, flower beds, patios, sidewalks, etc. done at customer's risk only.
2% INTEREST CHARGED PER MONTH ON ACCOUNTS OVER 30 DAYS.

TOTAL: **$460.00**

PAYMENT METHOD:

CUSTOMER COPY

INVOICE

DRIVER: _____

CUSTOMER:

MCCORMACK, MR. JOHN
24 COURTLAND RD.

COBOCONK, ON

DIRECTIONS:

24 COURTLAND RD.
OFF HWY 35

john@kawarthawaterfront.com

INV. NO. 0000149880
DATE: May-29-24
CUST. NO. 029442

SERVICE DATE		**NAME**		**AUTH #**		**AMOUNT**	407.08
DRIVER		**CARD #**		**EXP #**		**H.S.T.**	52.92
DRIVERS COMMENTS:			**PAYMENT METHOD**			**TOTAL:**	**$460.00**

HST#R104831243

SHEPHERD

OFFICE COPY

CUSTOMER SIGNATURE: _____

HALIBURTON, KAWARTHA, PINE RIDGE DISTRICT HEALTH UNIT

SEWAGE SYSTEM INSPECTION REPORT AND USE PERMIT

LDL-4089
FILE NUMBER

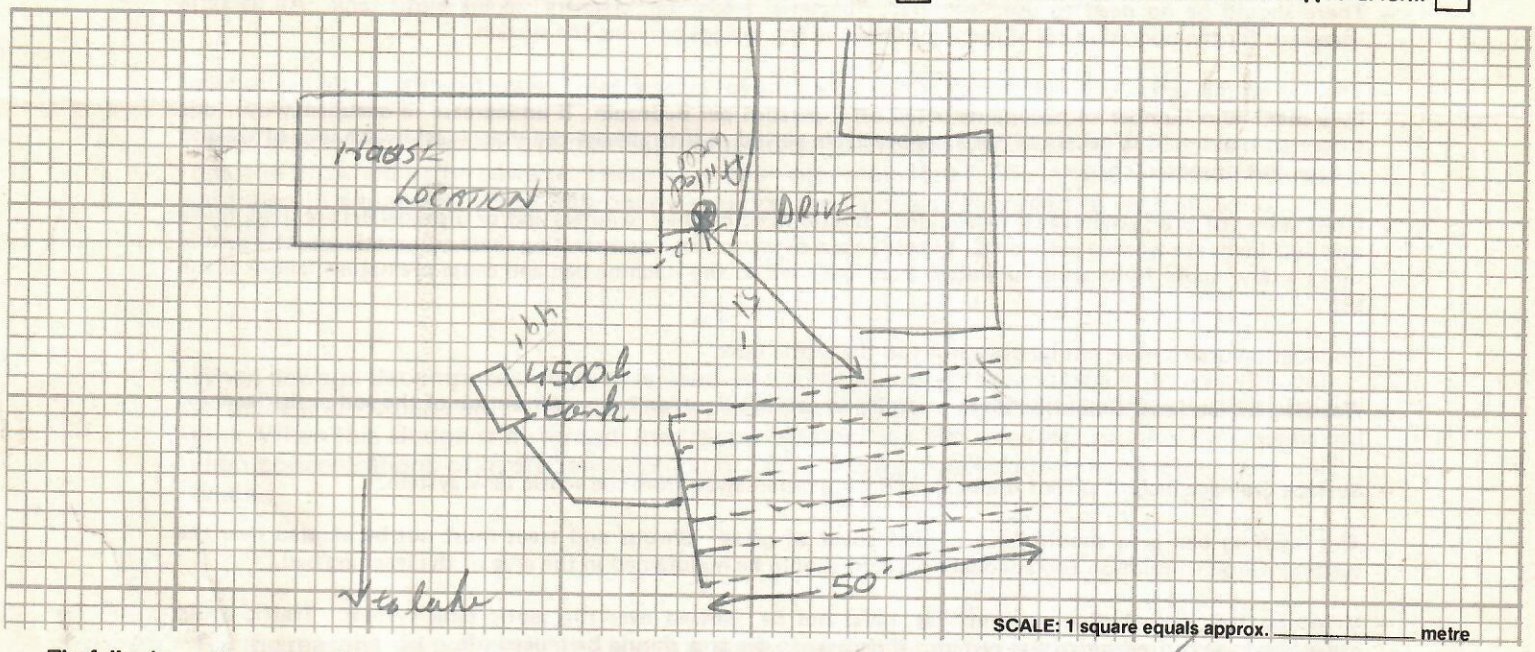
REPORT

INSTALLED BY: Ingram Wenzel DATE: Nov 15/89

Work authorized by certificate of approval has been satisfactorily completed and includes:

- Septic Tank/Holding Tank of working capacity of 4500 litres constructed of steel/concrete/fiberglass on site ☐ or prefabricated ☑ to serve 4 bedrooms
- Distribution Pipe: Type PVC ☑; Clay Tile ☐; Other _____ ; Absorption Trench System ☑
  Filter Bed System ☐; Filter Bed Area _____ sq. m.; Contact Area _____ sq.m.
  Total 91.44 Lineal Metres in 6 runs of 15 metres and fed by gravity ☑; Siphon ☐; or Pump ☐.
- Other Details _____

Actual location and orientation of components of sewage system are as shown hereunder ☐ or as outlined on the Certificate of Approval form ☐



SCALE: 1 square equals approx. _____ metre

The following work remains to be completed: Backfill system and sod or seed ☐ ; Stabilize all sloped surfaces ☑ ; Finish grading to shed run-off and divert water around leaching bed ☑ ; Other connect to dwelling

USE PERMIT

Under section 67 of the Environmental Protection Act, 1980 and regulations and subject to the limitations thereof, a permit is hereby issued to Bob Edwards

for the use and operation of the Class 4 Sewage System Installed/Altered under Certificate of Approval # LDL-40-89

such system being located on Lot 3 Conc. 11 Plan _____ Sub. lot _____

Township/Municipality LAXTON County VICTORIA

Inspected and Recommended by G. Blom

DATE Nov 15/89 Issued _____ (Director)

NOTE: Section 64 of the Act provides that no change can be made to any building(s) or structures in connection with which this sewage system is used, if the operation or effectiveness of the sewage system will be affected by the change, unless a Certificate of Approval is obtained.

I-10-145-89

FILE NUMBER

HALIBURTON, KAWARTHA, PINE RIDGE DISTRICT HEALTH UNIT

SITE INSPECTION REPORT FOR CERTIFICATE OF APPROVAL

DATE: Sept 28/89

OWNER: Bob Edwards Lot No. 3 Conc. 11

Township/Municipality: Laxton Plan # ____ Sub. Lot # ____

1. **Assessment of Property**
   a) Surface drainage: ~~good~~ fair poor
   b) Slope of ground: level ~~gradual~~ steep
   c) Clearances (horiz.): ~~satisfactory~~ unsatisfactory
   d) Percolation rate: 18 min./cm. Measured ☐ Estimated ☑

Soil Condition	
Depth (metres)	Soil Type
0 – 0.5	2ft Sandy Topsoil
0.5 – 1.0	Fine Sand with Mottling
1.0 – 1.5	Silt With Mottling

Show rock elevation ____

Show water table ____ W

2. **Decision:** On the basis of your application the property is:
   a) Acceptable if system is installed as outlined in item 3 below ☑
   b) Not acceptable; Reason recorded under item 3 ☐
   c) Owner may wish to consider a Proprietary Aerobic System ☐

Under Section 121 of the Environmental Protection Act, 1980 an applicant may appeal a decision by writing to the Director and to the Environmental Appeal Board, 1 St. Clair Avenue West, Toronto, Ontario M4V 1K7, within 15 days of receipt of the decision.

3. **Requirements of Sewage System:**
   a) Working capacity of Septic Tank: 4500 Litres 300ft Holding Tank: ____ litres
   b) Length of Absorption Trench Required 91 metres. c) Filter Bed Area ____ sq. m; Contact Area ____ sq. m.
   d) Proposed Layout of Sewage System, As Below ☐ as per attached drawing(s) ☐

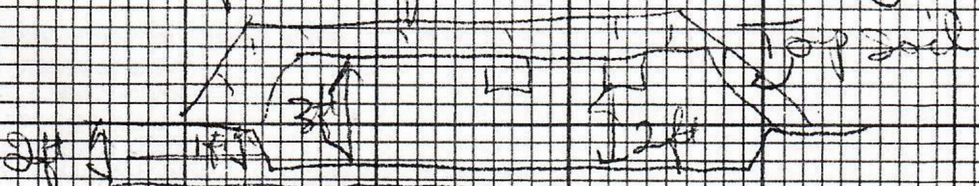
IF ANY DEVIATION IS NECESSARY, APPROVAL MUST BE OBTAINED PRIOR TO INSTALLATION.

4 Bedrooms

A minimum of 3ft of good granular fill is required

1) Remove 1ft of Topsoil
2) Add 3ft of good granular fill
3) Place tiles in the top foot of fill
4) Backfill with topsoil

Maintain 56 ft from the lake (Minimum Distance)



Scale: 1 square equals approx. 1 metre

NOTE: It is an offence under the Environmental Protection Act to use a system without a Use Permit. In order to issue a Use Permit, an inspection prior to the backfilling of your completed system is required. It is your responsibility to ensure that this is done.

CERTIFICATE

This Certificate of Approval under Section 65 of the Environmental Protection Act 1980 is hereby issued for the proposal outlined in the corresponding application as may be amended by the above requirements in item 3. Approval EXPIRES 12 months from date of issue.

INSPECTED & RECOMMENDED BY John McCallum

DATE Sept 28/89 Doug Shelton
Director

OFFICES:
P.O. Box 337, Cobourg, Ontario K9A 4K8 PHONE (416) 372-0175 ☐
P.O. Box 449, Campbellford, Ontario K0L 1L0 PHONE (705) 653-1550 ☐
P.O. Box 127, Brighton, Ontario K0K 1H0 PHONE (613) 475-0933 ☐
P.O. Box 570, Haliburton, Ontario K0M 1S0 PHONE (705) 457-1391 ☐
P.O. Box 565, Lindsay, Ontario K9V 4S5 PHONE (705) 324-3569 ☑

Wood Energy Technical Training

www.wettinc.ca
@WETT_CA

This inspection form is provided to WETT members as a recommended part of completing a WETT Inspection™. If this form is modified in any way from the official form provided by WETT, it will no longer be considered to be an official WETT Inspection™ form.

Company: Driftwood Mechanical Ltd
Address: 103 Driftwood Village Dr Coboconk Ontario
Website: www.driftwoodmechanical.com
Email: manager@driftwoodmechanical.com
Phone: 7053285772

REQUESTED BY:

Name: John & Gail McCormack
Address: 24 Courtland Rd ,Coboconk Ontario
Email: john@kawarthawaterfront.com
Phone: (705) 454-2930
Cell Phone:

INSPECTION LOCATION: ☐ Same as requested or:

Name:
Address:
Email:
Phone:
Cell Phone:

Inspector's name: Justin Phillips
WETT #: 6865
Reason(s) for inspection: Real Estate Sale
Type of inspection requested: ☒ Visual ❑ Technical ❑ Invasive
Date of request: June 25 2025
Date of inspection:

1. Visual Inspection: This inspection includes the following:
a. Measurements of clearances.
b. Opening stove doors and all ground-accessible dampers/clean-out doors.
c. Visual inspection of the chimney from the ground.
d. WETT report documenting all noted deficiencies and red flags that may require a more detailed inspection, including all mandatory photos in the WETT Inspection Standards of Practice (SOP).
e. Easily visible portions of the flue (such as first tiles of an open fireplace or top section if the inspector has accessed the roof).

2. Technical Inspection: This inspection includes the following:
a. All visual elements of the system as indicated in **Visual** Inspection.
b. Hands-on work which may include:
   i. Taking apart flue pipes,
   ii. Opening clean-outs,
   iii. Entering the attic to view additional system components,
   iv. Accessing the chimney on the roof.
c. Review of condition of components removed or exposed through hands-on work and quantity of creosote noted in components and where visible in chimney sections.
d. All observations and recommendations documented on WETT Inspection forms, including work completed and areas accessed, along with all mandatory photos.

3. Invasive Inspection: This inspection includes the following:
a. All visual elements of the system as indicated in **Visual** Inspection.
b. All hands-on work as indicated in **Technical** Inspection.
c. General construction work to building elements including:
   i. Opening of walls or ceilings,
   ii. Disassembly or invasive work on masonry or prefab chimneys,
   iii. Examination of chimney liners,
d. All observations and recommendations documented on WETT Inspection forms, including work completed and areas accessed, along with mandatory photos.

- **Inspection Results:** Indicate inspection results for each component. **Code compliance** = proper use of listed components. N/A = Not Applicable. UTI = Unable To Inspect.
- **Suitable (Suitability)** refers to system components that appear to be mechanically and structurally able to provide their designed and intended function.
- **Unsuitable** refers to components, or parts thereof, that are not mechanically or structurally suitable to maintain the function they were intended to perform.
- Note: an appliance that has been modified is no longer a certified appliance.
- This inspection report only documents the conditions at the time of inspection.
- All **non-compliance** ratings should be considered for comment.
- See "Comments" page(s)
- An inspection, at any level, can be expected to include some components marked **UTI**.
- Manufacturer's specific instructions/**CSA B365**/building code shall be used to complete this inspection form.
- Appliances are not fired as part of an inspection. This is not a performance inspection.
- The electrical system is not part of a solid-fuel inspection
- Documentary evidence, including a valid certification number of the attending WETT-certified professional, is a mandatory requirement of the inspection process.
- Persons signing a declaration must have physically inspected the work.
- Use one inspection form per appliance. In a multi-chimney situation, this inspection form is limited to the related appliance.
- Inspectors are checking for "**Code Compliance**." They do not "Pass" or "Fail."
- Inspectors do not certify the appliance or the installation.
- Inspectors do not issue a WETT certificate with an inspection, they issue an inspection report.

MASONRY CHIMNEY & FIREPLACE INSPECTION BASED ON 2018 BCBC / 2019 ABC / 2015 NBC / 2018 OBC

Wood Energy Technology Transfer Inc.

Has the type of inspection been discussed prior to inspection? ❑ Yes ☒ No	**Chimney constructed with the building:** ☒ Yes ❑ No ❑ Unknown ☐ Approximate age 1990s
Are copies of building permit/s available? ❑ Yes ☒ No	**Shell:** ❑ Brick ❑ Block ☒ Stone ❑ Other: _____ Comments/condition: (See notes.)
Time of day: 9am	**Rain cap:** ☒ Yes ❑ No ❑ With screening ❑ Without screening
Weather conditions (ice, snow, wind, rain, thunderstorm, sunny)**:** sunny	**How many flues in the chimney:** 1
Roofing type/material: shingles	**Flue being inspected size:** 13x12 **Material** Clay
Roof accessed? ❑ Yes ☒ No **Attic accessed?** ❑ Yes ☒ No	**Chimney is:** ☒ **Interior** ❑ **Exterior** **Height from firebox floor:** 12”
Fireplace constructed with the building: ☒ Yes ❑ No ❑ Unknown ☐ Approximate age 35 years	**Lined with:** ☒ Clay tile ☐ Pumice ☐ Stainless steel flex ☐ Stainless steel rigid ☐ Continuous ☐ Insulated
Fireplace is: ☒ Interior ❑ Exterior	**Chimney built by:** _____ **Date:** _____ ☒ **Unknown**
Is the fireplace: ☒ Firebrick lined ☐ Steel lined ☐ Steel liner assemblies	**Comments/condition of appliance:** Suitable ☒ Yes ❑ No (see notes)
Certification standard: ☒ ULC S639 ❑ Uncertified **Listing agency:** ☐ ULC ☐ CSA ☐ WH/ETL	
Fireplace location: ❑ Basement ☒ Main Floor ❑ Other (specify): _____	
Is there a fan or blower attached? ❑ Yes ☒ No	
Installed in: ☒ Residence (Part 9) ❑ Modular Home (A277) ❑ Mobile Home/Manufactured (Z240) ❑ Alcove ❑ Garage ❑ Other: _____	
Fireplace built by: _____ **Date:** _____ ☐ **Unknown**	

Wood Energy Technology Transfer Inc.

MASONRY FIREPLACE INSPECTION BASED ON 2018 BCBC / 2019 ABC 2015 NBC / 2018 OBC

1. Fireplace Chimneys = 9.21.2.5.

(1) The size of a chimney flue serving a masonry fireplace shall conform to Table 9.21.2.5.A or Table 9.21.2.5.B

Fireplace opening measurements: Height: 30 Width: 30 Total: 30

Flue size required: 12x12

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

2. ABC/BCBC/NBC Lintels or Arches 9.20.5.2

(1) Masonry over openings shall be supported by steel, masonry or reinforced concrete lintels, or masonry arches.

(2) Steel angle lintels supporting masonry veneer above openings shall **a)** conform to Table 9.20.5.2., and **b)** have a bearing length not less than 90 mm (3 ½").

Condition: Good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

3. OBC 9.20.5.2. Lintels or Arches

(1) Masonry over openings shall be supported by steel, reinforced concrete lintels or masonry arches designed to support the imposed loads.

(2) Except as provided in Sentences **(3)** and **(6)**, steel angle lintels supporting masonry above openings shall conform to Table **9.20.5.2.A.**

(3) Steel angle lintels supporting masonry veneer above openings shall conform to Table **9.20.5.2.B.**

(4) Steel lintels described in Sentences **(2)** and **(3)** shall, **a)** have even and level bearing and shall have not less than 150 mm (6") length of bearing at end supports, and **b)** bear on masonry, concrete or steel.

(5) Steel angle lintels supporting masonry shall be primed or painted or otherwise protected from corrosion.

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

4. Corbelling 9.20.12.1)

(1) All corbelling shall consist of solid units.

(2) The units referred to in Sentence **(1)** shall be corbelled so that the horizontal projection of any unit does not exceed 25 mm (1") and the total projection does not exceed one third of the total wall thickness.

Condition: _____

Compliance: ☐ Yes ☐ No ☐ N/A ☒ UTI

Comments: _____

5. Footings = 9.22.1.3.

(1) Footings for masonry and concrete fireplaces shall conform to Section 9.15.

Condition: _____

Compliance: ☐ Yes ☐ No ☐ N/A ☒ UTI

Comments: _____

6. ABC/BCBC/NBC Combustion Air = 9.22.1.4

(1) Where a supply of combustion air is provided directly to the fire chamber of a fireplace, including a factory-built fireplace, the installation shall comply with the "Outdoor Air Supply" requirements provided in CAN/CSA-A405-M, "Design and Construction o Masonry Chimneys and Fireplaces."

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

7. NBC/ABC 9.33.5.5. Combustion Air

(1) Combustion air intake inlets shall be located on the outside of the building and not within an attic or roof space or crawl space

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

8. OBC 9.22.1.4. Combustion Air

(1) Every solid fuel-fired fireplace, including a factory-built fireplace, shall have a supply of combustion air from outdoors in accordance with Sentences **(2)** to **(7)**.

(2) The combustion air shall be supplied by a non-combustible and corrosion-resistant supply duct.

(3) The supply duct shall have, **a)** a diameter of not less than 100 mm (4") or equivalent area, and **b)** an exterior intake for entry of air from the outdoors.

(4) The supply duct shall contain a tight-fitting damper that shall be located close to the interior outlet and be operable from the room containing the fireplace.

(5) The operating mechanism shall clearly indicate the actual position of the damper.

(6) The interior outlet shall, **a)** be located as close as possible to the opening in the face of the fireplace, and **b)** be designed to prevent embers from entering the supply duct.

(7) Where a supply of combustion air is provided directly to the fire chamber of a fireplace, including a factory-built fireplace or a steel fireplace liner, the installation shall comply with the "outdoor Air Supply" requirements provided in CAN/CSA-A405-M, "design and Construction of masonry Chimneys and fireplaces".

Condition: _____

Compliance: ☐ Yes ☐ No ☐ N/A ☒ UTI

Comments: _____

9. Brick or Steel Liners = 9.22.2.1.

(1) Except where a fireplace is equipped with a steel liner, every fireplace shall have a firebrick liner.

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

10. Firebrick Liners = 9.22.2.2.

(1) Firebrick liners shall be not less than **a)** 50 mm (2") thick for the sides and back, and **b)** 25 mm (1") thick for the floor.

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

11. Firebrick Liners = 9.22.2.2.

(2) Firebrick liners shall be laid with high temperature cement mortar conforming to CAN/CGSB-10.3, "Air Setting Refractory Mortar."

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

12. Firebrick Liners = 9.22.2.2.

(3) Joints between a firebrick liner and the adjacent backing masonry shall be offset.

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

13. Steel Liners = 9.22.2.3.

(1) Steel liners for fireplaces shall conform to CAN/ULC-S639-M, "Steel Liner Assemblies for Solid-Fuel-Burning Masonry Fireplaces," and shall be installed in accordance with the installation instructions in that standard

Condition: _____

Compliance: ☐ Yes ☐ No ☒ N/A ☐ UTI

Comments: _____

14. Thickness of Walls = 9.22.3.1.

(1) Except as provided in Sentence (2), the thickness of the back and sides of a fireplace, including the thickness of any firebrick liner, shall be not less than 190 mm (7 ½") where a metal liner or a firebrick liner less than 51 mm (2") thick is used.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

15. Thickness of Walls = 9.22.3.1.

(2) When a steel fireplace liner is used with an air circulating chamber surrounding the firebox, the back and sides of the fireplace shall consist of **a)** solid masonry units not less than 90 mm (3 ½") thick, or **b)** hollow masonry units not less than 190 mm (7 ½" thick.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

16. Fire Chamber Dimensions = 9.22.4.1.

(1) The distance from the back of the fire chamber to the plane of the fireplace opening shall be not less than 300 mm (12")

Condition: 24

Compliance: ☒ Yes ❑ No ❑ N/A ❑ UTI

Comments: _____

17. Hearth Extension = 9.22.5.1

(1) Except as required in Sentence (2), fireplaces shall have a non-combustible hearth extending not less than 400 mm (16") in front of the fireplace opening and not less than 200 mm (8") beyond each side of the fireplace opening.

Condition: 16.5

Compliance: ☒ Yes ❑ No ❑ N/A ❑ UTI

Comments: dining room side measured

18. Hearth Extension = 9.22.5.1

(2) Where the fire chamber floor is elevated more than 150 mm (6") above the hearth, the dimension of the hearth measured perpendicular to the plane of the fireplace opening shall be increased by not less than **a)** 50 mm (2") for an elevation above 150 mm (6") and not more than 300 mm (12"), and **b)** an additional 25 mm (1") for every 50 mm (2") in elevation above 300 mm (12")

Condition: _____

Compliance: ❑ Yes ❑ No ☒ N/A ❑ UTI

Comments: _____

19. Support of Hearth = 9.22.5.2.

(1) Except as permitted in Sentence **(2)** the fire chamber floor and hearth shall be supported on a reinforced concrete slab not less than 100 mm (4") thick at its supports and, if cantilevered, not less than 50 mm (2") thick at its unsupported edge.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

20. Support of Hearth = 9.22.5.2.

(2) A hearth for a fireplace with an opening raised not less than 200 mm (8") from a combustible floor is permitted to be supported on that floor provided the requirements of Clauses 5.3.6.5. to 5.3.6.7. of CAN/CSA-A405-M, "Design and Construction of Masonry Chimneys and Fireplaces" are followed

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ❑ UTI

Comments: _____

21. Required Damper and Size = 9.22.6.1

(1) The throat of every fireplace shall be equipped with a metal damper sufficiently large to cover the full area of the throat opening

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

22. Slope of Smoke Chamber = 9.22.7.1.1

(1) The sides of the smoke chamber connecting a fireplace throat with a flue shall not be sloped at an angle greater than 45º to the vertical.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

23. Wall Thickness = 9.22.7.2

(1) The thickness of masonry walls surrounding the smoke chamber shall be not less than 190 mm (7½") at the sides, front and back, except that the portions of the back exposed to the outside may be 140 mm (5½") thick.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

24. Clearance to the Fireplace Opening = 9.22.9.1

(1) Combustible material shall not be placed on or near the face of a fireplace within 150 mm (6") of the fireplace opening, except that where the combustible material projects more than 38 mm (1½") out from the face of the fireplace above the opening, such material shall be not less than 300 mm (12") above the top of the opening.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

25. Metal Exposed to the Interior = 9.22.9.2

(1) Metal exposed to the interior of a fireplace such as the damper control mechanism shall have not less than a 50 mm (2") clearance from any combustible material on the face of the fireplace where such metal penetrates through the face of the fireplace.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

26. Clearance to Combustible Framing = 9.22.9.3.

(1) Not less than a 100 mm (4") clearance shall be provided between the back and sides of a fireplace and combustible framing, except that a 50 mm (2") clearance is permitted where the fireplace is located in an exterior wall.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

27. Clearance to Combustible Framing = 9.22.9.3.

(2) Not less than a 50 mm (2") clearance shall be provided between the back and sides of the smoke chamber of a fireplace and combustible framing, except that a 25 mm (1") clearance is permitted where the fireplace is located in an exterior wall.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

28. Heat-Circulating Duct Outlets = 9.22.9.4

(1) The clearance of combustible material above heat-circulating duct outlets from those outlets shall be not less than **a)** 300 mm (12”) where the combustible material projects not less than 38 mm (1½”) from the face, and **b)** 150 mm (6”) where the projection is less than 38 mm (1½”)

Condition: _____

Compliance: ❑ Yes ❑ No ☒ N/A ❑ UTI

Comments: _____

_____

Wood Energy Technology Transfer Inc.

MASONRY CHIMNEY INSPECTION BASED ON 2018 BCBC / 2019 ABC / 2015 NBC / 2018 OBC

29. Cleanout - 9.21.4.7.

(1) A cleanout opening with a metal frame and a tight-fitting metal door shall be installed near the base of the chimney flue.

Condition: _____

Compliance: ❑ Yes ❑ No ☒ N/A ❑ UTI

Comments: _____

_____

30. Clearance from Combustible Materials - 9.21.5.1.

(2) A clearance of not less than 150 mm (6”) shall be provided between a cleanout opening and combustible material. Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

31. ABC/BCBC/NBC Wall Thickness - 9.21.4.8.

(1) The walls of a masonry chimney shall be built of solid units not less than 75 mm (3”) thick.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

32. OBC Wall Thickness - 9.21.4.8.

(1) The walls of a masonry chimney shall be built of solid units not less than 70 mm (2.755”) thick.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

33. Lining Materials - 9.21.3.1.

(1) Every masonry or concrete chimney shall have a lining of clay, concrete, firebrick or metal.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

34. Clay Liners - 9.21.3.3.

(1) Clay liners shall conform to CAN/CSA-A324-M, “Clay Flue Liners”

(2) Liners referred to in Sentence (1) shall be not less than 15.9 mm thick and shall be capable of resisting, without softening or cracking, a temperature of 1100° C.

Condition: good

Compliance: ☒ Yes ❑ No ❑ N/A ❑ UTI

Comments: _____

_____

35. Firebrick Liners - 9.21.3.4

(1) Firebrick liners shall conform to ASTM C 27, “Fireclay and High-Alumina Refractory Brick.”

(2) Firebrick liners shall be laid with high-temperature cement mortar conforming to CAN/CGSB-10.3, “Air-Setting Refractory Mortar.”

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

36. Concrete Liners - 9.21.3.5.

(1) Concrete flue liners shall conform to Clause 4.2.6.4 of CAN/CSA-A405-M-87, “Design and Construction of Masonry Chimneys and Fireplaces.”

Condition: _____

Compliance: ☐ Yes ☐ No ☒ N/A ☐ UTI

Comments: _____

37. Clearance from combustible materials 9.21.5.1

(1) The clearance between masonry or concrete chimneys and combustible framing shall be not less than

(2) a) 50 mm (2”) for interior chimneys, and b) 12 mm (1/2”) for exterior chimneys.

Condition: _____

Compliance: ☐ Yes ☐ No ☒ N/A ☐ UTI

Comments: _____

38. OBC 9.21.1.4. Chimney or Flue pipe walls

(1) The walls of any chimney or flue pipe shall be constructed to be smoke- and flame-tight.

Condition: good

Compliance: ☒ Yes ☐ No ☐ N/A ☐ UTI

Comments: _____

39. ABC/BCBC/NBC 9.21.1.2. Chimney or Flue pipe walls

(1) The walls of any chimney or flue pipe shall be constructed to be smoke- and flame-tight.

Condition: _____

Compliance: ☐ Yes ☐ No ☐ N/A ☒ UTI

Comments: _____

40. Oval Chimney Flues - 9.21.2.6.

(1) The width of an oval chimney flue shall be not less than two-thirds its breadth.

Condition: _____

Compliance: ☐ Yes ☐ No ☐ N/A ☒ UTI

Comments: _____

41. ABC/BCBC/NBC Separation of Flue Liners - 9.21.4.9.

(1) Flue liners in the same chimney shall be separated by not less than 75 mm (3”) of masonry or concrete exclusive of liners where clay liners are used, or 90 mm (3½”) of firebrick where firebrick liners are used.

(2) Flue liners referred to in Sentence (1) shall be installed to prevent significant lateral movement.

Condition: _____

Compliance: ☐ Yes ☐ No ☐ N/A ☒ UTI

Comments: _____

42. OBC Separation of Flue Liners - 9.21.4.9.

(1) Flue liners in the same chimney shall be separated by not less than 70 mm (2.755") of masonry or concrete exclusive of liners where clay liners are used, or 90 mm (3½") of firebrick where firebrick liners are used.

(2) Flue liners referred to in Sentence (1) shall be installed to prevent significant lateral movement.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

43. Joints in Chimney Liners - 9.21.3.2.

(1) Joints of chimney liners shall be sealed to provide a barrier to the passage of flue gases and condensate into the cavity between the liner and the surrounding masonry.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

44. Joints in Chimney Liners - 9.21.3.2.

(2) Joints of clay, concrete or firebrick chimney liners shall be struck flush to provide a straight, smooth, aligned chimney flue.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

45. Installation of Chimney Liners - 9.21.3.7.

(1) Chimney liners shall be installed when the surrounding masonry or concrete is placed.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

46. Spaces between Liners and Surrounding Masonry - 9.21.3.8.

(1) A space not less than 10 mm (3/8") wide shall be left between a chimney liner and surrounding masonry.

(2) The space required in Sentence (1) shall not be filled with mortar.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

47. Mortar for Chimney Liners 9.21.3.9

(1) Chimney liners used in chimneys for solid-fuel-burning appliances shall be laid in a full bed of **a)** high temperature cement mortar conforming to CAN/CGSB-10.3, "Air Setting Refractory Mortar," or **b)** mortar consisting of 1 part Portland cement to 3 parts sand by volume.

(2) Chimney liners used in chimneys for oil- or gas-burning appliances shall be laid in a full bed of mortar consisting of one part Portland cement to three parts sand by volume.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

48. Extension of Chimney Liners - 9.21.3.10.

(1) Chimney liners shall extend from a point not less than 200 mm (8") below the lowest flue pipe connection to a point not less than 50 mm (2") or more than 100 mm (4") above the chimney cap.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

49. Height of Chimney Flues 9.21.4.4.

(1) A chimney flue shall extend not less than **a)** 900 mm (36”) above the highest point at which the chimney comes in contact with the roof, and **b)** 600 mm (24”) above the highest roof surface or structure within 3 m (10’) of the chimney.

Required Height = 900mm (3’/36”) Actual = 36”

Required = 600mm (2’/24”) Actual = 24”

Required Vertical within 3m Horizontal (10’) Actual = 10ft

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ❑ UTI

Comments: _____

50. Lateral Stability - 9.21.4.5.

(1) Except as provided in Sentence (2), chimneys shall be braced in accordance with Subsection 4.3.2. to provide lateral stability under wind loads.

(2) A chimney need not be laterally braced provided **a)** no horizontal outside dimension is less than 400 mm (16”), and **b)** the chimney extends not more than 3.6 m (12’) above a roof or the masonry wall of which it forms a part.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

51. Chimney Caps - 9.21.4.6.

(1) The top of a chimney shall have a waterproof cap of reinforced concrete, masonry or metal.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

52. Chimney Caps - 9.21.4.6.

(2) The cap required in Sentence **(1)** shall slope from the lining and be provided with a drip not less than 25 mm (1”) from the chimney wall.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

53. Chimney Caps - 9.21.4.6.

(3) Cast-in-place concrete caps shall be separated from the chimney liner by a bond break and be sealed at that location.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

54. Chimney Caps - 9.21.4.6.

(4) Jointed precast concrete or masonry chimney caps shall have flashing installed beneath the cap extending from the liner to the drip edge.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

55. Flashing - 9.21.4.10.

(1) Junctions with adjacent materials shall be adequately flashed to shed water.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

56. Clearance from Combustible Materials - 9.21.5.1.

(1) The clearance between masonry or concrete chimneys and combustible framing shall be not less than **a)** 50 mm (2”) for interior chimneys, and **b)** 12 mm (1/2”) for exterior chimneys.

NOTE: *For purposes of this Sentence, an exterior chimney can be considered to be one which has at least one surface exposed to the outside atmosphere or unheated space over the majority of its height. All other chimneys should be considered to be interior.*

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

57. Clearance from Combustible Materials - 9.21.5.1

(3) Combustible flooring and subflooring shall have not less than a 12 mm (1/2”) clearance from masonry or concrete chimneys.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

58. Sealing of Spaces - 9.21.5.2

(1) All spaces between masonry or concrete chimneys and combustible framing shall be sealed top or bottom with non-combustible material.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

59. Support of Joists or Beams - 9.21.5.3

(1) Joists or beams may be supported on masonry walls which enclose chimney flues provided the combustible members are separated from the flue by not less than 290 mm (11 ½”) of solid masonry

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

60. Inclined Chimney Flues - 9.21.2.3

(1) Chimney flues shall not be inclined more than 45° to the vertical.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

61. Intersection of Shingle Roofs and Masonry - 9.26.4.4.

(1) The intersection of shingle roofs and masonry walls or chimneys shall be protected with flashing.

(2) Counter flashing required in Sentence (1) shall be embedded not less than 25 mm (1”) in the masonry and shall extend not less than 150 mm (6”) down the masonry and lap the lower flashing not less than 100 mm (4”).

(3) Flashing along the slopes of a roof described in Sentence (1) shall be stepped so that there is not less than a 75 mm (3”) head lap in both the lower flashing and counter flashing.

(4) Where the roof described in Sentence (1) slopes upwards from the masonry, the flashing shall extend up the roof slope to a point equal in height to the flashing on the masonry, but not less than 1.5 times the shingle exposure.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

_____

62. Chimney Saddles 9.26.4.8.

(1) Except as otherwise permitted in Sentence (5), chimney saddles shall be installed where the upper side of a chimney on a sloping roof is more than 750 mm (30") wide.

(5) A chimney saddle need not be installed if the intersection between the chimney and roof is protected by sheet metal flashing that extends up the chimney to a height equal to at least one sixth the width of the chimney, but not less than 150 mm (6"), and up the roof slope to a point equal in height to the flashing on the chimney, but not less than 1.5 times the shingle exposure.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

63. Fire Code = 2.6.1.4. Chimneys, Flues and Flue Pipes

(1) Every chimney, flue and flue pipe shall be inspected to identify any dangerous condition **a)** at intervals not greater than 12 months, **b)** at the time of addition of any appliance, and **c)** after any chimney fire.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

64. Fire Code = 2.6.1.4

(2) Chimneys, flues and flue pipes shall be cleaned as often as necessary to keep them free from dangerous accumulations of combustible deposits.

Appendix A – A.2.6.1.4 (2) The presence in a chimney of deposits of soot or creosote in excess of 3mm thick will indicate the need for immediate cleaning, possible modification of burning procedures, and more frequent inspections.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

65. Fire Code = 2.6.1.4

(3) A chimney, flue, or flue pipe shall be replaced or repaired to eliminate **a)** any structural deficiency or decay

Appendix A – A-2.6.1.4. (3) a) Structural deficiencies are deviations from required construction, such as the absence of a liner or inadequate design of supports or ties. Instances of decay are cracking, settling, crumbling mortar, distortion, advanced corrosion, separation of sections, or loose or broken supports

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

66. Fire Code = 2.6.1.4

(3) A chimney, flue, or flue pipe shall be replaced or repaired to eliminate **b)** all abandoned or unused openings that are not effectively sealed in a manner that would prevent the passage of fire or smoke.

Condition: _____

Compliance: ❑ Yes ❑ No ❑ N/A ☒ UTI

Comments: _____

67. Is CO alarm present in same room with solid-fuel-burning appliance?	9.32.4.2.3 (BCBC)	☒ Yes	❑ No	❑ Yes ❑ No ❑ N/A ❑ UTI		☐ Yes
68. Is CO alarm present in same room with solid-fuel-burning appliance?	9.32.3.9.3 (NBC/ABC)	☒ Yes	❑ No	❑ Yes ❑ No ❑ N/A ❑ UTI		☐ Yes
69. Is CO alarm present?	9.33.4.2 (OBC)	☒ Yes	❑ No	❑ Yes ❑ No ❑ N/A ❑ UTI		☐ Yes

It is the homeowner's responsibility to ensure that the CO alarm is in working condition and installed in accordance with applicable codes.

NOTE: WETT inspectors do not test the CO alarm, they just note if it is present.

Wood Energy Technical Training

File reference #: 0102024

Photos taken: ❑ Yes ☒ No Number of photos: _____

This checklist contains: 12 pages in total | This report contains: 12 pages in total.

Comments and observations:

All non-compliance ratings should be considered for comment. Add number of non-compliance line. More pages may be added.

Please attach additional page(s) if needed

Customer signature: _____

Date: _____

Inspector signature: 

Inspector WETT #: 6865

Date: june 25 2025

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Section #: _____

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