CW

File/Permit #: OSWP-2024-58010

**IREDELL COUNTY HEALTH DEPARTMENT**
**JANE HINSON, MS, BSN, RN**
**HEALTH DIRECTOR**

Public Health
Prevent. Promote. Protect.
Iredell County Health Department

# EXISTING SYSTEM APPROVAL

*Issued by:* ☑ Local Health Department ☐ AOWE ☐ Certified Inspector

☑ Existing System Approval
- ☐ Site modification (e.g., storage shed) or footprint addition with no DDF or wastewater strength increase
- ☑ Reconnection when the proposed facility is in the same footprint as existing/previous facility

☐ Construction Authorization/Notice of Intent to Construct

*[issued for reconnection when the proposed facility is not in the same footprint as existing/previous facility pursuant to Session Law 2023-77, Section 5.(c)]*
*[certified inspectors are not authorized to approve reconnections outside of footprint pursuant to Session Law 2023-77, Section 5.(c)]*

Applicant: CHIRAG PATEL
Mailing Address: 2174 ISLAND FORD ROAD
City: STATESVILLE
State: N.C. Zip: 28625
Phone #: 706-360-0639
Email: SHARONEXPO1@GMAIL.COM

Owner: CHIRAG PATEL
Mailing Address: 2174 ISLAND FORD ROAD
City: STATESVILLE
State: N.C. Zip: 28625
Phone #: 706-360-0639
Email: SHARONEXPO1@GMAIL.COM

PIN/Lot Identifier: 3784-72-7634
Property Location/Address: 2174 ISLAND FORD ROAD, STATESVILLE, N.C. 28625 (NO SUB)
Facility Type: ☐ House/Modular ☐ Mobile/Manufactured Home ☑ Business ☐ Other: _____

Operation Permit/ATO #: OSWP-2024-58010 Design Daily Flow: 263 GPD
Number of Bedrooms: — Max # Occupants: — Other: 268 ft² FOOD STAND
Wastewater Strength: ☐ Domestic ☑ High Strength ☐ Industrial Process Wastewater
Water Supply: ☐ Private well ☑ Public well ☐ Shared well ☐ Municipal Supply ☐ Spring ☐ Other: _____

Proposed Property Improvement: CHANGE OF USE FROM 375FT² MEET MARKET TO A 268FT² FOOD STAND. WITH HUNTS BROTHERS PIZZA, 2 EMPLOYEES @ 15 HOURS A DAY, AND 1 EMPLOYEE @ 8 HOURS A DAY

All of the following must be checked for approval:

***For Reconnections:**
- ☐ Site complies with its Operation Permit or the wastewater system was in use prior to July 1, 1977
- ☑ No current or past uncorrected malfunction of the system as described in 15A NCAC 18E .1303(a)(2)
- ☑ DDF and wastewater strength for the proposed facility do not exceed that of the existing system
- ☑ Facility meets the setbacks in Section .0600 of 15A NCAC 18E
- ☑ Existing system is being operated and maintained in accordance with Section .1300 of 15A NCAC 18E and permit conditions.

***For Site Modifications or Footprint Expansions:**
- ☐ Proposed structure meets the setbacks in Section .0600 of 15A NCAC 18E

Approval Conditions: MUST MEET ALL REQUIREMENTS OF ENGINEER LETTER, KITCHEN SPACE MUST NOT EXCEED 268FT², NO PUBLIC RESTROOMS

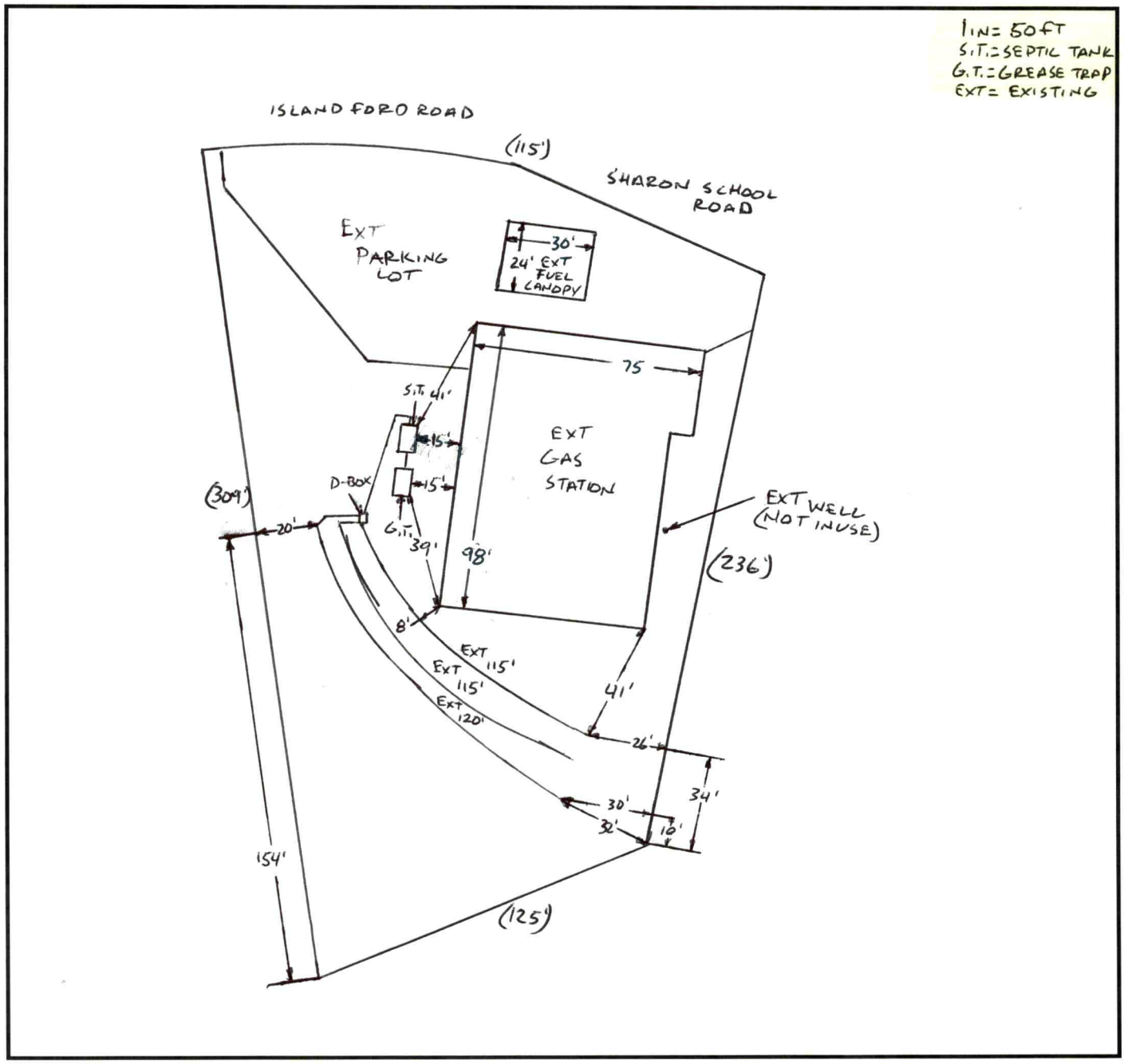
Inspector's Printed Name: BRYANT C. WHITE Inspector Certification #: 2751
Inspector's Signature: Bryant C. White Date: 9-18-2024

*See attached site sketch*

# EXISTING SYSTEM APPROVAL
# SITE SKETCH

Operation Permit/ATO #: OSWP-2024-58019 PIN/Lot Identifier: 3784-72-7634

Owner: CHIRAG PATEL Property Location/Address: 2174 ISLAND FORD ROAD, STATESVILLE, N.C 28625




*Include the existing and proposed structures and applicable setbacks.*


**Central Office**
318 Turnersburg Hwy
Statesville, NC 28625
704-878-5300

**Mooresville Site**
610 E. Center Avenue
Mooresville, NC 28115
704-664-5281

**Environmental Health**
349 N. Center Street
Statesville, NC 28677
704-878-5305 x3456

www.co.iredell.nc.us/161/Health-Department

**PIEDMONT DESIGN ASSOCIATES, P.A.**
125 East Plaza Drive, Suite 101
Mooresville, NC 28115
Telephone (704) 664-7888 Fax (704) 664-1778
Email: dmunday@pdapa.com

Engineering
Surveying
Planning

August 19, 2024

Mr. Bryant White, REHS
Iredell County Health Department
610 East Center Avenue
Mooresville, NC 28115

Re: Septic System Daily Design Flow Calculations and Recommendations
Sharon Express Convenience Store
2174 Sharon School Road, Statesville, Iredell County, NC

Dear Mr. White:

At your request, we have provided a breakdown of the permitted drainfield and what Mr. Patel is allowed to provide at his convenience store located at 2174 Sharon School Road in Statesville, Iredell County, North Carolina.

The system was repair permitted for 350 linear feet of drain field. The system was being utilized as a meat market (375 sq. ft.) and 3 employees. The system was installed with a loading rate of 0.25 gallons per day which equates to a daily design flow of 263 gallons per day.

Mr. Patel has requested that we analyze the operation at his facility and maximize the potential of the current system. Mr. Patel is offering a store with the following:

- Hunt Brothers Pizza with a design daily flow of 50 gallons per day,
- Food Stand with a Krispy Krunchy Chicken & breakfast grill,
  (268 Sq. Ft. Food Stand Floor Space at 50 gallons / 100 sq. ft. of space)
- 2 full-time employees at 15 hours per day (26 G/D/Employee),
- 1 full-time employee at ≤8 hours per day (12 G/D/Employee) 6 days per week

The daily design flow from the requested items above is 248 gallons per day which is below the daily design flow of 263 gallons per day.

Mr. Patel has offered to shut down the food stand every Sunday to allow for full cleaning of the food stand equipment. It is highly recommended to the Owner to minimize the disposal of water in any drains to system to minimize the hydraulic load on the system during cleaning. Past water usage studies have indicated that cleaning generates an abnormally excessive amount of wastewater.

We recommend that as a condition of the permit that the Local Health Department require several items be done prior to operation:

- Perform a watertight test on all precast tanks and install watertight risers to an above grade on all tank access points.
- Install a grease tank filter (recommend Polylok model PL-625 with 1/32" slots) on grease tank outlet end.
- Install a septic tank filter (recommend Polylok model PL-525 with 1/16" slots) on septic tank outlet end.

- Require quarterly effluent samples pulled from the pump tank serving the facility for the following parameters:

**BOD < 650 mg/L & TSS < 100 mg/L.**

If parameters exceed these numbers, then additional actions / measures may need to be put into place.

Please contact us if you have any questions or need any additional information to approve this request. Thank you in advance for your prompt review and approval.

Sincerely,

**Piedmont Design Associates, PA**

Donald L. Munday, P.E.
N.C. Registration No. 17327
President




08/20/2024

Cc.: Mr. Chirag Patel, President

PIEDMONT DESIGN
ENGINEERING/SURVEYING/PLANNING
Associates, P.A.

125 East Plaza Drive, Suite 101
Mooresville, North Carolina 28115-8812
Telephone (704) 664-7888 Fax (704) 664-1778
NCBELS License No.: C-1007

**Job No: 2024-08-17-EC**
**Sharon Express C-Store Septic System**
**2174 Sharon School Road, Iredell County, North Carolina**

**Date: August 19, 2024**

**System Sizing Calculation**

| | | |
|---|---|---|
| | 350 | LF Shown |
| | 0.25 | LTAR per permit |
| | **263** | **Gallons/Day Maximum Flow** |
| | 12 | Gal./Day/Employee (Utilizing Low Flow Fixtures) |
| | 2 | Employees |
| | 26 | Gal./Day for Emp. @ 15 Hours per Day |
| | 1 | Employees |
| | 12 | Gal./Day for Emp. < 8 Hours per Day |
| **Employee Flow:** | 64 | Gal./Day for All Employees |
| Flow for Other Store Services | | |
| **Hunt Bros:** | 50 | Gal./Day |
| **Food Stand:** | 50 | Gal./100 SF Floor Space |
| | 268 | Square Feet |
| | 134 | Gal./Day |
| **Total System Flow:** | **248** | **Gal./Day** |

# IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

## IMPROVEMENT PERMIT / CERTIFICATE OF COMPLETION / OPERATION PERMIT / EXISTING SYSTEM INSPECTION

PROPERTY DESCRIPTION NO. Repair DATE 9-13-93 TAX MAP NO. Repair

OWNER OR CONTRACTOR Sharon Supermarket (Les Vandermark) PHONE: Business Home 871-0505

ADDRESS Rt. 6 Box 521 Statesville, N.C. 28677

LOCATION I40W TR Sharon School Rd. Supermarket on corner of Sharon School Rd. and Island Ford Rd.

SUBDIVISION NA BLOCK / SECTION — LOT — LOT AREA .99 acre SITE CLASS. P.S. L.T.A.R. .25 gal/ft²

Water Supply: ☑ Individual ☐ Community ☐ Public Well.

Septic Tank: 1000 Gallons: STB 1012 Date 6-24-93

Grease Tank: 1000 Gallons: PT 1012 Date 6-29-93

Nitrification Field: No Fields 1 Square Feet 1050 Linear Feet 350'

No Lines 3 Trench Width 36" Trench Depth 18"-30" Gravel Depth 12"

☐ New System ☑ Repair System Type: I (II) III. IV. V. VI

System Description: Coonventional, gravity fed

Repair System Description:

Maintenance Agreement Required: ☐ Yes ☑ No

☐ House/Mod. Home No. Bedrooms —

☐ Mobile Home No. Bathrooms 2

☑ Business No. Employees 3

☐ Other 375 sq. ft. meat market, 3 employees

☐ Slab ☑ Crawl Space ☐ Basement w/plumbing ☐ Basement wo/plumbing

Garbage Disposal: ☐ Yes ☑ No

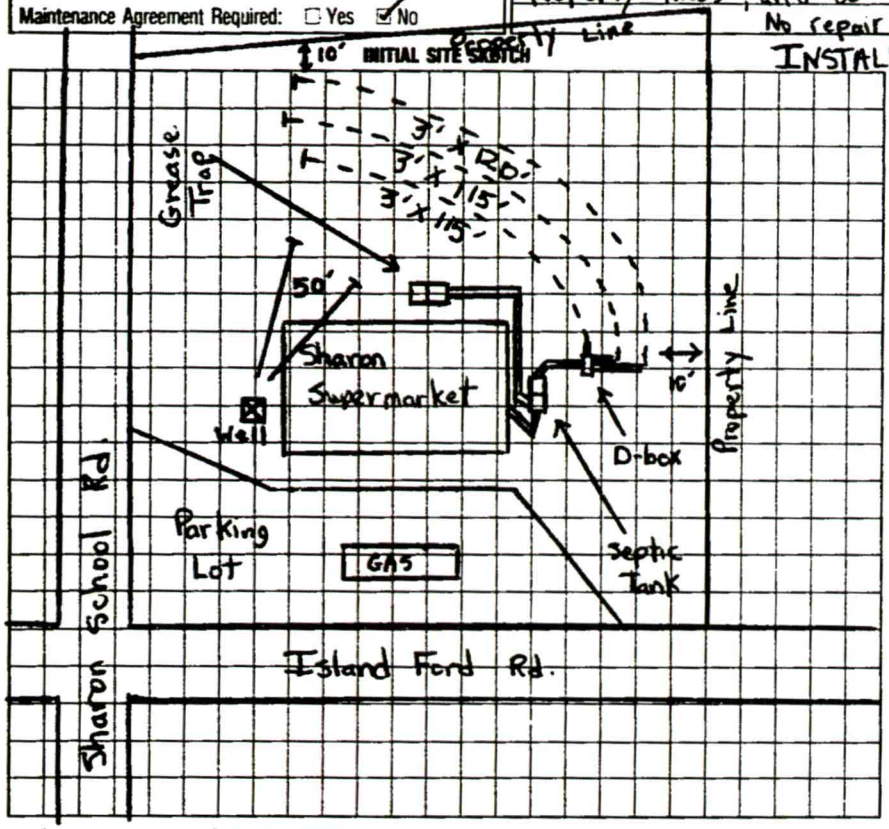
Auto. Dishwasher: ☑ Yes ☐ No

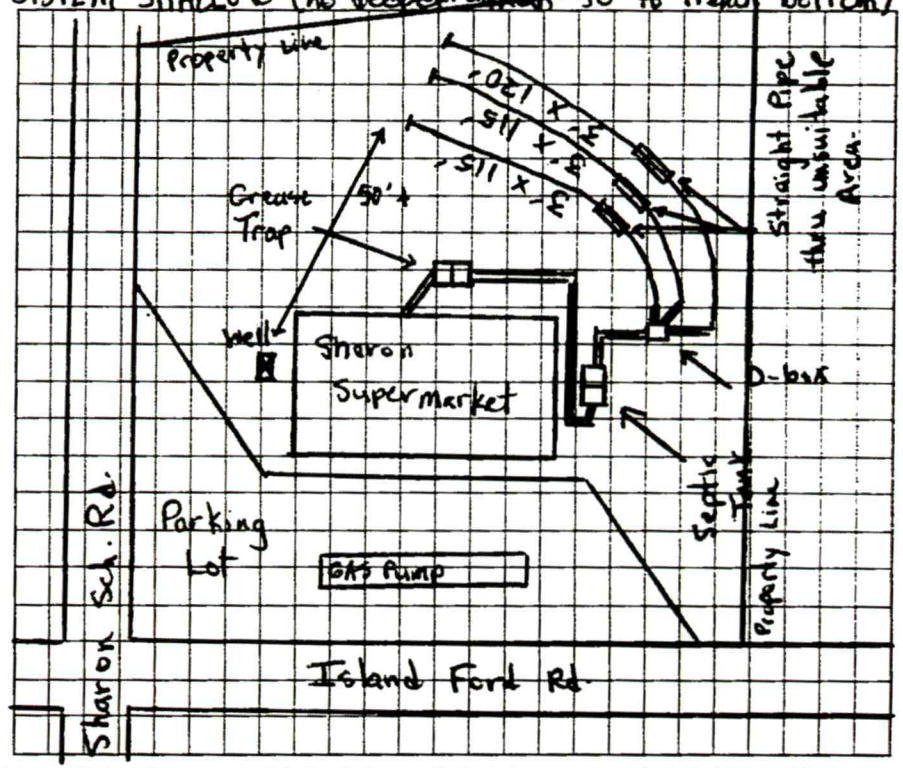
Auto. Washing Machine: ☑ Yes ☐ No

Other

Comments Installed new septic tank and grease trap 9-9-93. Discovered inadequate drain field. Install drainlines on contour, keep system 5' from foundation of building, 10' from all property lines, and 50' from any well. Could not repair system and stay 100' from well. No repair area available on this property left for future repeair.

INSTALL SYSTEM SHALLOW (no deeper than 30" to trench bottom)




I understand that this permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit is valid for 60 months from date of issuance.

Signed:

Improvement Permit by: Michael J. Dennis date 9-13-93

Existing System Inspection by: date

Installed by: Forest Shuford

Certificate of Completion by: Michael J. Dennis date 9-15-93

Operation Permit by: date

HEALTH DEPT. COPY: WHITE INSPECTION COPY (FINAL): GREEN OWNER COPY (FINAL): YELLOW INSPECTION COPY (INITIAL): PINK OWNER COPY (INITIAL): GOLD

NC DEPARTMENT OF
HEALTH AND
HUMAN SERVICES

ROY COOPER • Governor
MANDY COHEN, MD, MPH • Secretary
BETH LOVETTE, MPH, BSN, RN • Acting Director
Division of Public Health

**Memorandum**

To: NC Environmental Health Specialists

From: Nancy Deal, On-Site Water Protection Branch Head

Subject: Updated Design Flow Increase for Addition of Hunt Brothers Pizza to Convenience Stores

Date: January 10, 2019

Based on data provided by Hunt Brothers Pizza, an increase in flow of 50 gallons per day will be added to the system when a Hunt Brothers Pizza unit is added to a convenience store. The 50 gallons per day is based on the cleaning of food preparation materials, food storage materials, and hand washing. This additional design flow is based on the following conditions:

1. All ingredients are prepared elsewhere (crust, sauce, pizza amendments, wings, wingbites, etc).
2. The existing septic system must be correctly sized based on the current facilities, including Hunt Brothers Pizza, prior to the addition of Hunt Brothers Pizza, and shall include a properly sized effluent filter (and riser) in the septic tank.
3. If Hunt Brothers Pizza is the only food service at the store and only one single or double oven is used, no grease trap is required. The addition of any other food service product/facilities requires the addition of a grease trap.
4. Best management practices are followed for the disposal of all solid waste generated by the food preparation process.
5. All food waste should be disposed of as solid waste, not down the drain.

# PERMIT SNAPSHOT REPORT OSWP-2024-58010 FOR IREDELL COUNTY

| | | | | | |
|---|---|---|---|---|---|
| **Permit Type** | Environmental Health OSWP | **Project:** | | **App Date:** | 07/19/2024 |
| **Work Class:** | EH Septic Permit | **District:** | Iredell County | **Exp Date:** | NOT AVAILABLE |
| **Status:** | In Progress | **Square Feet:** | 0.00 | **Completed:** | NOT COMPLETED |
| **Valuation:** | $0.00 | **Assigned To:** | White, Bryant | **Approval Expire Date:** | |

**Description:** SHARON EXPRESS (Hunt Bros. Pizza & Krispy Krunchy Chicken) - need Change of Use per Heath - adding a pizza restaurant to existing facilities - See FOOD-2024-50725

| | | |
|---|---|---|
| **Parcel:** 3784727634.000 Main | **Address:** 2174 Island Ford Rd Statesville, NC 28625 Main | **Zone:** RA(Residential Agricultural District) |

| Property Owner | Applicant/Authorized Agent |
|---|---|
| Chirag Patel | Chirag Patel |
| 2174 island ford rd | 2174 island ford rd |
| statesville, NC 28625 | statesville, NC 28625 |
| Mobile: (706) 360-0639 | Mobile: (706) 360-0639 |

**Permit Custom Fields**

| | | | | | |
|---|---|---|---|---|---|
| How is your site plan being submitted | Custom Site Plan | Septic Application/Permit Type | Existing System Inspection | Does the site contain any jurisdictional wetlands | No |
| Non-domestic Sewage Generated | No | Other Public Agency | No | All proposed structure dimensions | n/a |
| What are the proposed structures | Other Addition/Structure | Maximum Number of Bedrooms | 1 | If other Addition/Structure, please explain | |
| Number of Occupants | 25 | Foundation Type | Concrete Slab Foundation | Residential/Business/Other | Commercial |
| Number of Employees | 3 | Water Supply | Other Public Water | Desired Septic System Type | Conventional (most common) |
| If other septic system type, please explain | | Pump Make | | # of Nitrification Fields | |
| Model | | Serial # | | System Description | |
| Repair System Description | | Comments/Conditions | | Permit type(s) | Improvement Permit with Plat |
| Additional Unique Setbacks Apply | No | | | | |

| Attachment File Name | Added On | Added By | Attachment Group | Notes |
|---|---|---|---|---|
| Signature_Chirag_Patel_7/19/2024.jpg | 07/19/2024 12:55 | Patel, Chirag | | Uploaded via CSS |
| WhatsApp Image 2024-07-19 at 12.47.07 PM_v1.jpeg | 07/19/2024 16:02 | Patel, Chirag | Available Online | |
| floor plan_v1 (19)_v1.pdf | 07/19/2024 16:33 | Hart, Ronda | Available Online | |
| 4736408996.a1.tif | 07/19/2024 16:33 | Hart, Ronda | Available Online | Septic record |
| 3784727634.a1.tif | 07/19/2024 16:40 | Hart, Ronda | Available Online | Septic record |

| Inspection Number | Status | Inspection Type | Request Date | Scheduled Start Date | Scheduled End Date | Actual Start Date | Actual End Date |
|---|---|---|---|---|---|---|---|
| 2024-232867 | Requested | OSWP Septic/Well Preliminary Site Visit | 07/22/2024 | 07/23/2024 0:00 | 07/23/2024 0:00 | | |

**Inspectors:** Fleming, Latasha (Primary)

| Checklist Item | Description | Passed | Comments |
|---|---|---|---|
| General Comments | Checklist item used to track general comments, not specific to any other checklist item | No | |

# PERMIT SNAPSHOT REPORT (OSWP-2024-58010)

| Invoice No. | Fee | Fee Amount | Amount Paid |
|---|---|---|---|
| INV-00033684 | Existing System Inspection | $250.00 | $250.00 |
| | Total for Invoice INV-00033684 | $250.00 | $250.00 |
| | **Grand Total for Permit** | **$250.00** | **$250.00** |

| Workflow Step / Action Name | Action Type | Start Date | End Date |
|---|---|---|---|
| **Application Completeness Check v.1** | | 07/19/2024 16:47 | 07/19/2024 16:47 |
| Confirm application complete v.1 | Generic Action | | 07/19/2024 16:47 |
| ~~**Zoning Review v.1**~~ | | | 07/19/2024 16:48 |
| ~~Floodplain Admin Overview v.1~~ | Task | | 07/19/2024 16:48 |
| ~~Issue Invoice v.1~~ | Generic Action | | 07/19/2024 16:48 |
| ~~Fees Paid v.1~~ | Generic Action | | 07/19/2024 16:48 |
| **Fees v.1** | | 07/22/2024 10:14 | 07/22/2024 10:14 |
| Issue Invoice v.1 | Generic Action | | 07/22/2024 10:14 |
| Fees Paid v.1 | Generic Action | | 07/22/2024 10:14 |
| **Lot Readiness Verification v.1** | | 07/22/2024 12:38 | |
| OSWP Septic Preliminary Site Visit v.1 | Inspection | 07/22/2024 12:38 | 07/22/2024 12:38 |
| OSWP Site Evaluation v.1 | Inspection | | |
| Issue Improvement Permit v.1 | | | |
| Issue Invoice v.1 | Generic Action | | |
| Fees Paid v.1 | Generic Action | | |
| Issue Permit v.1 | Generic Action | | |
| Permit Completion Process v.1 | | | |
| Authorization to Construct Permit v.1 | Create Sub Permit | | |
| Issue Authorization to Construct v.1 | Generic Action | | |

DOOR
EXIT DOOR
OPEN AREA
ICE MAKER
3 COMP SINK
10FT 8IN
HAND SINK
2FT 3FT
OPEN
HOOD
6FT
3FT
PIZZA
6FT
2FT
2FT
HAND SINK
2FT
6FT
7FT
DOOR
3FT
3FT
DELI
HBP
KKC
6FT 8IN
6FT 8IN
7FT
10FT
13FT
3FT
3FT
6FT
3FT
COOLER
9FT 4IN
42 FT
9FT
BEER CAVE
14 DOOR
1 DOOR ENTRANCE
4FT 6IN
4FT 6IN
9FT 9IN
14FT
BEER
1 ENTRANCE
4 BEER DOOR
BATHROOM
HVAC
BREAKER ROOM
TLC-350
FISH BAIT
24FT
OFFICE
COUNTER
11FT
FRONT DOOR

# IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

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SUBDIVISION NA BLOCK / SECTION — LOT — LOT AREA .99 acre SITE CLASS P.S. L.T.A.R. .25 gal/ft²

Water Supply: ☑ Individual ☐ Community ☐ Public Well.

Septic Tank: 1000 Gallons: STB 1012 Date 6-29-93

~~Grease~~ Tank: 1000 Gallons: PT 1012 Date 6-29-93

Nitrification Field: No Fields 1 Square Feet 1050 Linear Feet 350'

No Lines 3 Trench Width 36" Trench Depth 12"-30" Gravel Depth 12"

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System Description: Conventional, gravity fed

Repair System Description:

Maintenance Agreement Required: ☐ Yes ☑ No

☐ House/Mod. Home No. Bedrooms —

☐ Mobile Home No. Bathrooms 2

☑ Business No. Employees 3

☐ Other 375 sq. ft. meat market, 3 employees

☐ Slab ☑ Crawl Space ☐ Basement w/plumbing ☐ Basement wo/plumbing

Garbage Disposal: ☐ Yes ☑ No

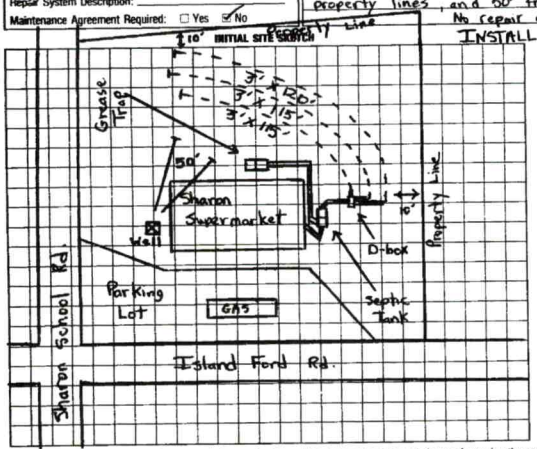
Auto. Dishwasher: ☑ Yes ☐ No

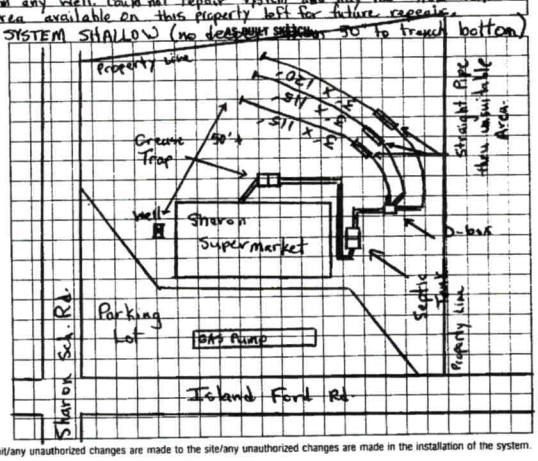
Auto. Washing Machine: ☑ Yes ☐ No

Other

Comments Installed new septic tank and grease trap 9-9-93. Discovered inadequate drain field. Install drainlines on contour. Keep system 5' from foundation of building; 10' from all property lines, and 50' from any well. Could not repair system and stay 100' from well. No repair area available on this property left for future repairs. INSTALL SYSTEM SHALLOW (no deeper than 30" to trench bottom)

10' INITIAL SITE SKETCH




I understand that this permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit is valid for 60 months from date of issuance.

Signed:

Improvement Permit by: Michael J. Dennis date 9-13-93

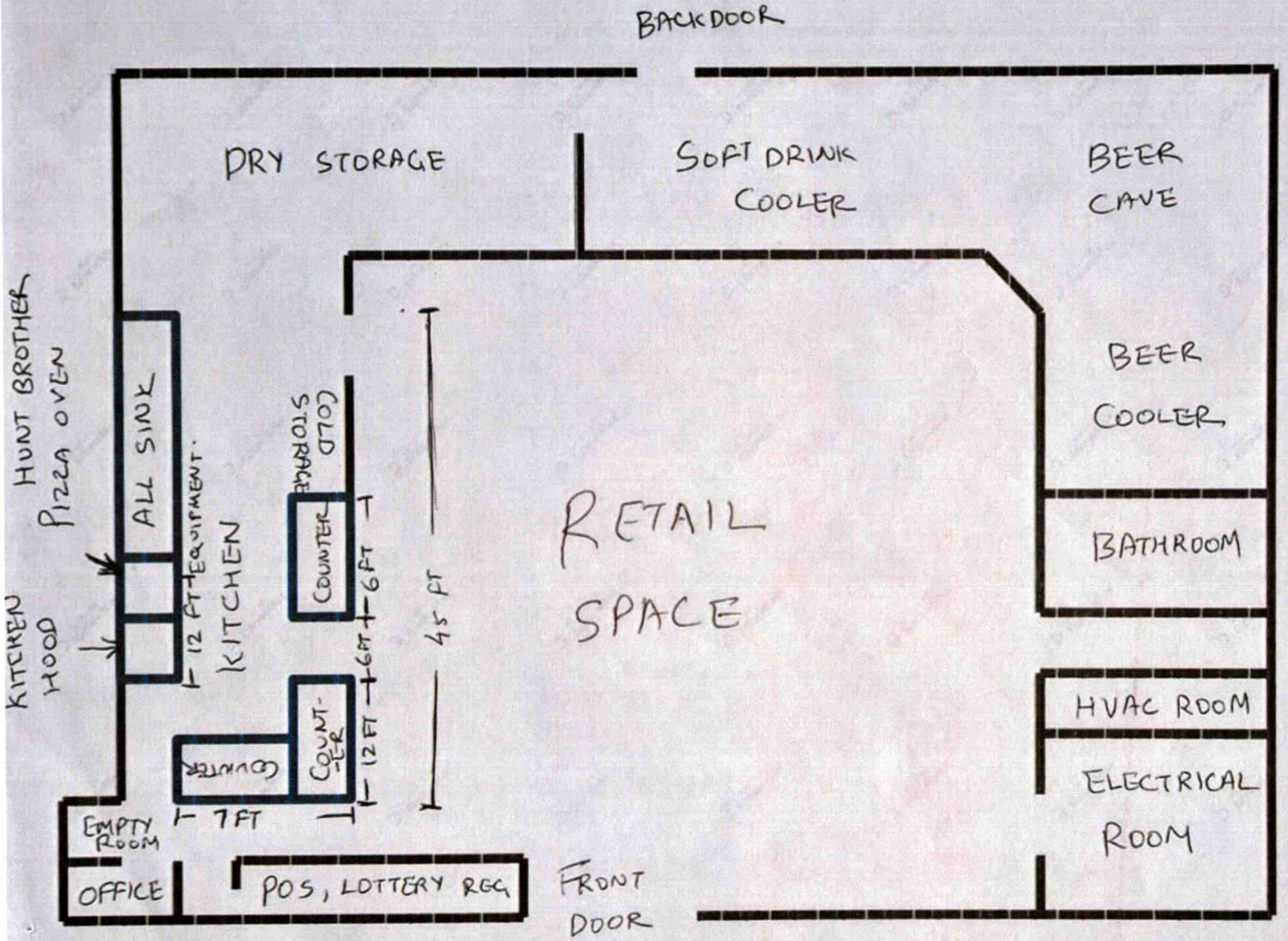
Existing System Inspection by: date

Installed by: Forest Shuford

Certificate of Completion by: Michael J. Dennis date 9-15-93

Operation Permit by: date

HEALTH DEPT. COPY: WHITE INSPECTION COPY (FINAL): GREEN OWNER COPY (FINAL): YELLOW INSPECTION COPY (INITIAL): PINK OWNER COPY (INITIAL): GOLD




Seating Space

~~24~~ 24' FT

315 FT² = 7ft x 45ft

50 GAL/100 FT

157.5 GAL

50 GALS FOR HBP

+ 24 GAL = 12 x 2 EMP

40 GAL = 2 x 2 x 10 HRS OVER

= 271.5 GAL

225 GAL FOR FT²?