Supervisor/Administrative Professional Checklist

New Septic ☒ New Well ☐ Use Existing ☐ Alteration ☐ Modified Plot Plan ☐

New Septic Fees Paid

IP ($250.00) AS 11/30/17 Initials/Date

CA ($200.00) LE 8/15/18 Initials/Date

OP ($200.00) LE 8/15/18 Initials/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid) _____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. ☑ Reviewed ☑ JAM

This site is served by septic and well. Verify each is complete before final hold is released. ☐

Septic file completed. ☐ _____ Well file completed. ☐ _____

Send permit for signature. ☑ Signature received. ☑ _____

Applicant needs to change APP from 4 Bedroom to 3 bedroom and initial

This septic system requires a certified operator contract before final hold is released. ☐

Certified operator contract is on file. ☐ _____

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here:
MATTHEW THOMPKINS

Bill To:

THE SOUTHLAKE COMPANY
MATTHEW THOMPKINS
PO BOX 849 CORNELIUS

Cornelius, NC 28031

Single Payment

Transaction Date:	11/30/2017 1:09 PM Pacific Time
Pay Method:	VISA **********0936
Approval #:	010066
Trace Number:	c7032b55-dce5-4f6c-ab69-c9a6ab7961c3
Amount:	$250.00

Payment Amount:	$250.00
Total:	**$250.00**

Thank you for your payment.

9886B
#9323

29 NOV '17

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ☑ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☑ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 01735308
STREET ADDRESS: 205 SHERWOOD DR
CITY: HUNTERSVILLE
STATE: NC ZIP: 28078
SUBDIVISION NAME:
LOT #: 11 LOT SIZE (acres): .34
TOWNSHIP:
○ MECKLENBURG ○ CORNELIUS ☑ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:
BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
☑ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 2570
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ☑ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ☑ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

9. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:
☐ N/A [1] ANY TYPE [2] CONVENTIONAL [3] ACCEPTED [4] INNOVATIVE [5] ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ☑ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ☑ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ☑ NO	JURISDICTIONAL WETLANDS	○ YES ☑ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ☑ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ☑ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ☑ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ☑ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ☑ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ☑ NO
WASTE STORAGE	○ YES ☑ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ☑ NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? __ __ ____ ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____ ☑ N/A

12. PROPERTY OWNER:
NAME: THE SOUTHLAKE COMPANY
ADDRESS: PO BOX 849
CITY: CORNELIUS
STATE: NC ZIP: 28031
WORK PHONE:
MOBILE PHONE: 704-400-2118
FAX:
E-MAIL: thesouthlakeco@live.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: MATTHEW TOMPKINS
ADDRESS:
CITY:
STATE: ____ ZIP:
WORK PHONE:
MOBILE PHONE: 704-400-2118
FAX:
E-MAIL:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202. OFFICE: 704-336-5103. FAX: 704-336-6894

Revised on: 12/15/10

9884B
#9323

29 NOV '17 PM 1:08

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ☑ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☑ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 01735308
STREET ADDRESS: 205 SHERWOOD Dr
CITY: HUNTERSVILLE
STATE: NC ZIP: 28078
SUBDIVISION NAME:
LOT #: 11 LOT SIZE (acres): .34
TOWNSHIP:
○ MECKLENBURG ○ CORNELIUS ☑ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:
BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
☑ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 2570
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
☑ CRAWL-SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ☑ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ☑ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:
☐ N/A ☑ 1 ANY TYPE ☑ 2 CONVENTIONAL ☑ 3 ACCEPTED ☑ 4 INNOVATIVE ☑ 5 ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ☑ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ☑ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ☑ NO	JURISDICTIONAL WETLANDS	○ YES ☑ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ☑ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ☑ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ☑ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ☑ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ☑ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ☑ NO
WASTE STORAGE	○ YES ☑ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ☑ NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____ ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____ ☑ N/A

12. PROPERTY OWNER:
NAME: THE SOUTHLAKE COMPANY
ADDRESS: PO Box 849
CITY: CORNELIUS
STATE: NC ZIP: 28031
WORK PHONE:
MOBILE PHONE: 704-400-2118
FAX:
E-MAIL: thesouthlakeco@live.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: MATTHEW TOMPKINS
ADDRESS:
CITY:
STATE: ____ ZIP:
WORK PHONE:
MOBILE PHONE: 704-400-2118
FAX:
E-MAIL:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here:
MATTHEW THOMPKINS

Bill To:

THE SOUTHLAKE COMPANY
MATTHEW THOMPKINS
PO BOX 849 CORNELIUS

Cornelius, NC 28031

Single Payment

Transaction Date: 11/30/2017 1:09 PM Pacific Time
Pay Method: VISA **********0936
Approval #: 010066
Trace Number: c7032b55-dce5-4f6c-ab69-c9a6ab7961c3
Amount: $250.00

Payment Amount: $250.00

Total: $250.00

Thank you for your payment.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 11/30/17
Receipt #: 108391
Check / Auth #: VISA 010066
Received By: ABDUSAI

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: THOMKINS, MATTHEW
Attn:
Address: PO BOX 849
Address:
City/State/Zip: CORNELIUS, NC 28031

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 205 SHERWOOD DR		1	250.00	250.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

FEE: 200.00
DATE: 10/23/2018

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9886B

PERMIT NUMBER: 30009323

PARCEL NUMBER: 01735312

JOB LOCATION INFORMATION

ADDRESS: 205 SHERWOOD DR

CITY: HUNTERSVILLE **STATE: NC** **ZIP:** 28078

ISSUED TO: THE SOUTHLAKE COMPANY

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 9/13/2018

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30009323, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, AND MAY BE ISSUED AT THE SAME TIME THE IMPROVEMENT PERMIT IS ISSUED.

Authorized Agent Signature _____

Groundwater & Wastewater Services: Septic Project File & D

Edit Response | Delete Response | Manage Permissions | Workflows | Alert Me

GWS File #:	98868
WASPS App #:	9323
Primary ES assigned to project:	Jeremy Michelone
Secondary ES assigned to project:	
Project Type:	New System
Site Evaluation Information: .1939(a)(1) - Topography and Landscape Position Recorded?	Yes
Site Evaluation Information: .1940(a-g) - Slope % Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Texture Class Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Structure Type Recorded?	Yes
Site Evaluation Information: .1939 (a)(2) - Consistence Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Mineralogy Recorded?	Yes
Site Evaluation Information: .1939(a)(3) - Soil Wetness Condition Recorded?	Yes
Site Evaluation Information: .1939(a)(4) - Soil Depth to Rock or Parent Material Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(5) - Depth to Restrictive Horizons Recorded when Encountered?	N/A
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	Yes
Site Evaluation Information: .1937(m) - Are the Profile Locations Shown?	Yes
Site Evaluation Information: .1939(a) - Are the S/PS Profiles in system & in repair area?	Yes
Site Evaluation Information: .1939(d), .1955, .1956, .1957 - LTAR	Yes
Improvement Permit/Construction Authorization: .1937(g), 130A-336(a) - Proposed System Type stated - Initial	Yes
Improvement Permit/Construction Authorization: .1945(b) - Proposed System Type stated - Repair	N/A
Improvement Permit/Construction Authorization: 130A-336(a)(3) - System location identifiable by setbacks - Initial	Yes
Improvement Permit/Construction Authorization: .1937(g), .1945(b) - System components shown - Initial	Yes
Information Permit/Construction Authorization: .1945(b) - Repair area shown	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Does System design match facility, flow & WW characteristics?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is System design consistent with soil/site conditions?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is the System located in the approved area?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Number of Bedrooms, employees, seats, etc. indicated?	Yes
Improvement Permit/Construction Authorization: .1937 (g) - Trench depth correct?	Yes
Improvement Permit/Construction Authorization: .1937(g) - Trench width correct?	Yes
Improvement Permit/Construction Authorization: .19379(g) - Trench length correct?	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(1) - Proposed/existing well shown?	N/A

Improvement Permit/Construction Authorization: 130A-336(a)(1) - Property line lengths shown?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Facility/appurtenance setbacks shown from fixed points?	Yes
Corrections/modifications needed?	No
Comments:	
IA issued date:	
OP Issued date:	
Review performed by:	Jeremy Michael
Date performed:	1/19/2018

Created at 1/19/2018 4:25 PM by Michael, Jeremy
Last modified at 1/19/2018 4:25 PM by Michael, Jeremy

Close

9886B
#9323

29 NOV '17 PM 2:04

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 01735308
STREET ADDRESS: 205 Sherwood Dr
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME:
LOT #: 11 LOT SIZE (acres): .34
TOWNSHIP:
○ MECKLENBURG ○ CORNELIUS ◉ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:
BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 2570
NUMBER OF BEDROOMS: 4 3 MT
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ◉ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ◉ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE (1-MOST DESIRED 5-LEAST DESIRED):
☐ N/A [1] ANY TYPE [2] CONVENTIONAL [3] ACCEPTED [4] INNOVATIVE [5] ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ◉ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ◉ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ◉ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____ ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____ ☑ N/A

12. PROPERTY OWNER:
NAME: The SouthLake Company
ADDRESS PO Box 849
CITY: Cornelius
STATE: NC ZIP: 28031
WORK PHONE:
MOBILE PHONE: 704-400-2118
FAX:
E-MAIL: theSouthlakeco@live.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: Matthew Tompkins
ADDRESS:
CITY:
STATE: ZIP:
WORK PHONE:
MOBILE PHONE: 704-400-2118
FAX:
E-MAIL:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

_____ (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

_____ (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Matthew Tompkins _____ 11/29/17

Property Owner's or Owner's Legal Representative Signature — Date

---

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

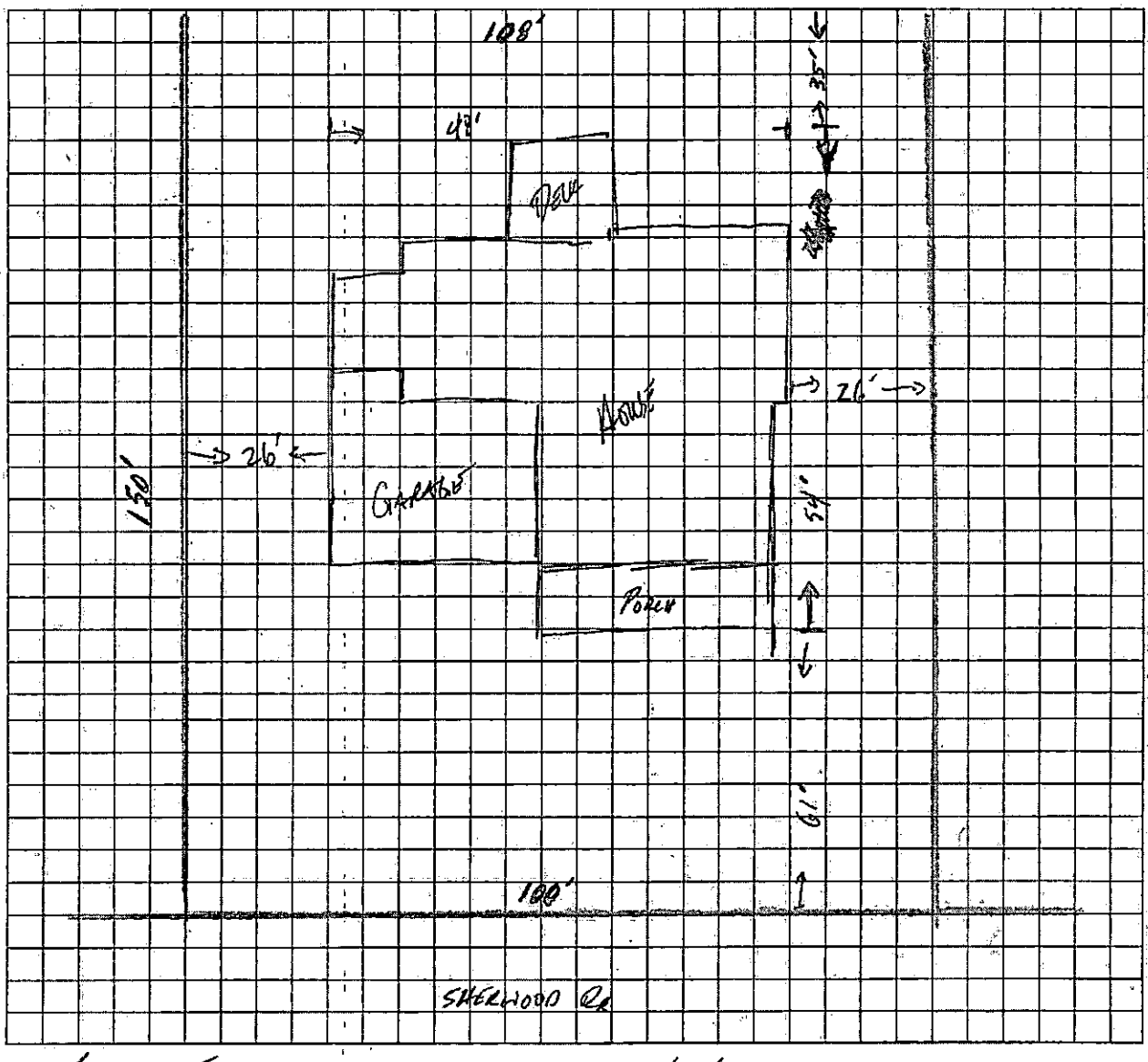
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 205 SHERWOOD DR, HUNTERSVILLE, NC Tax Parcel #: 01735308

Subdivision Name: _____ Lot #: 11

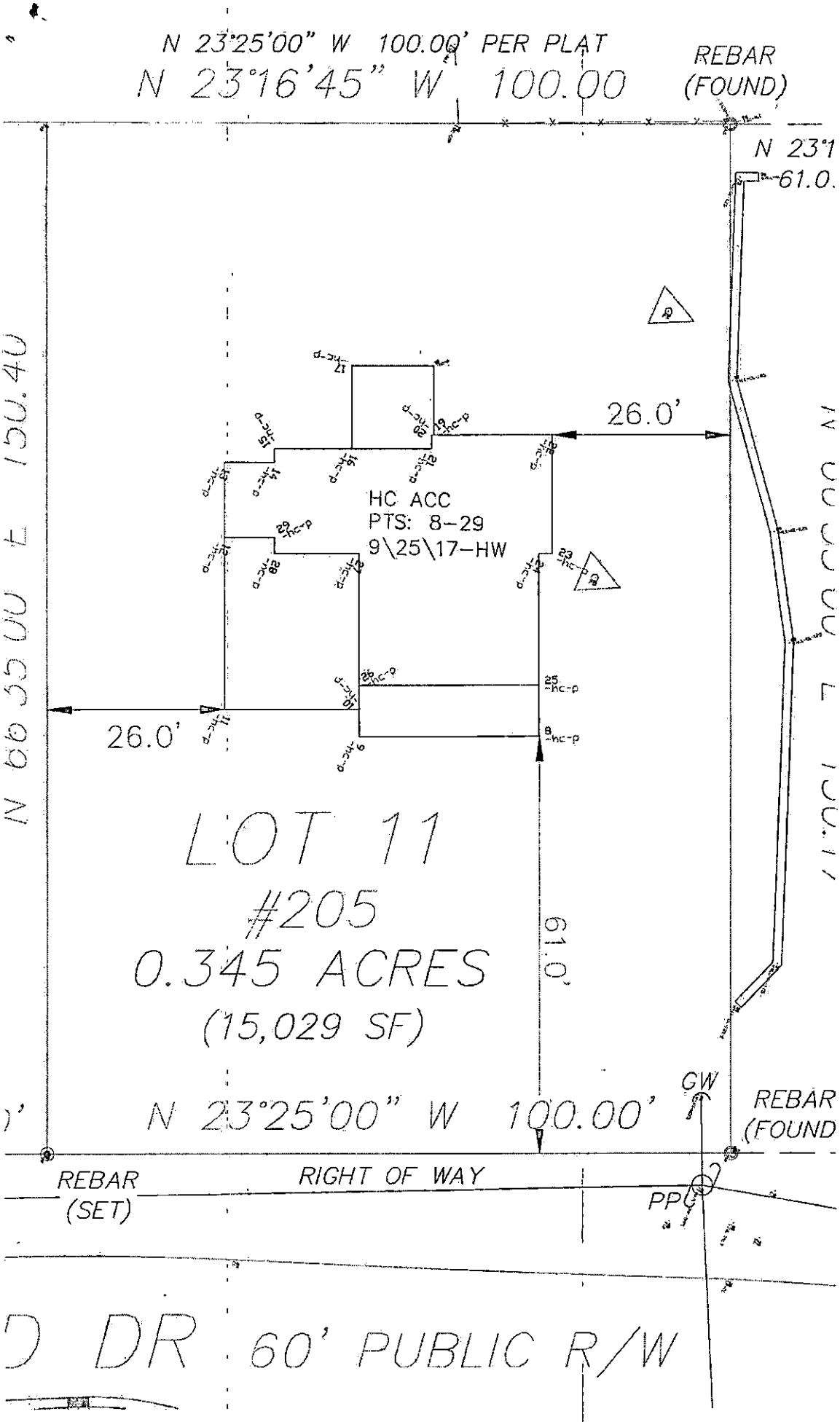


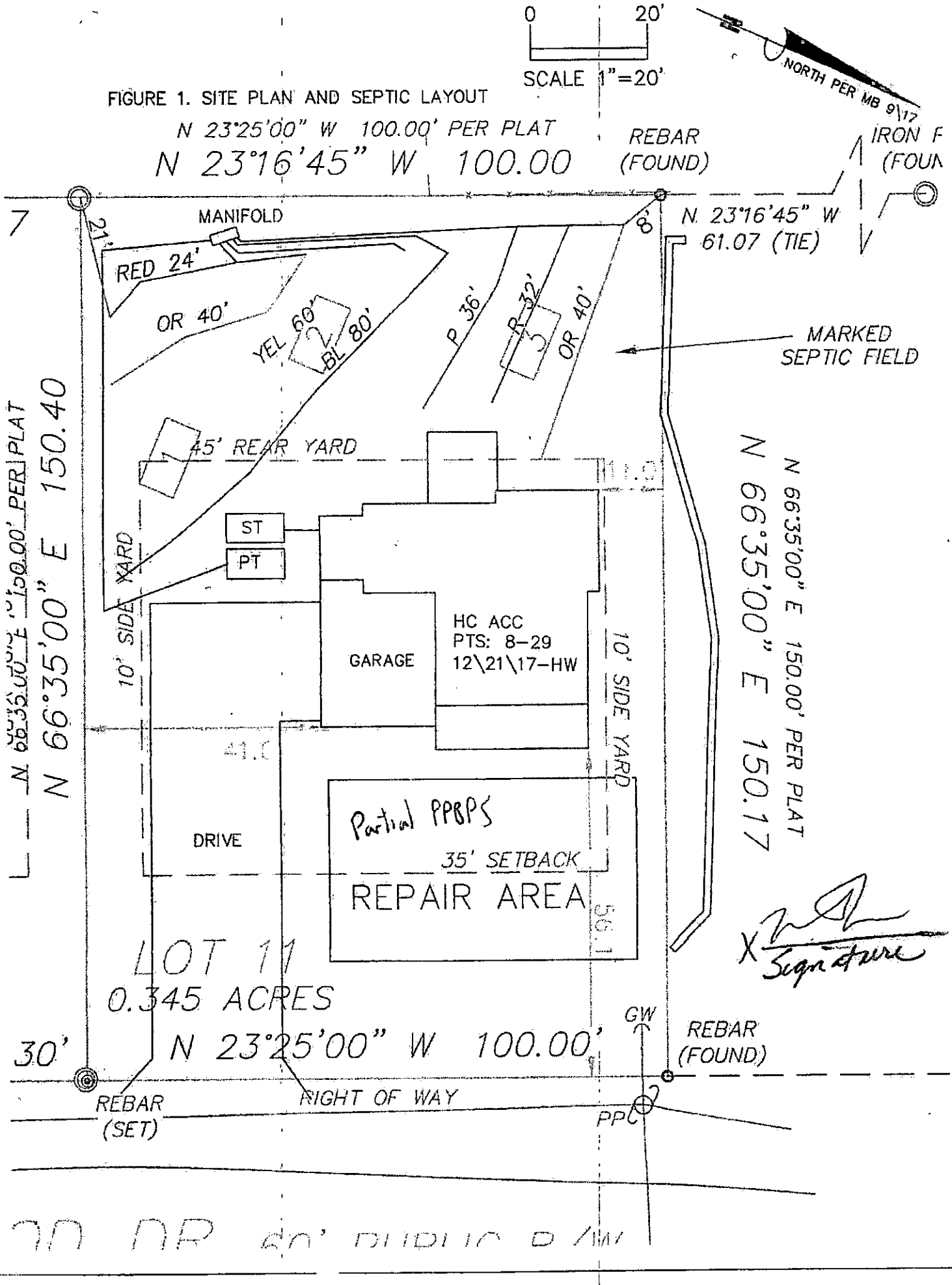
Matthew Temple
Property Owner's or Owner's Legal Representative Signature

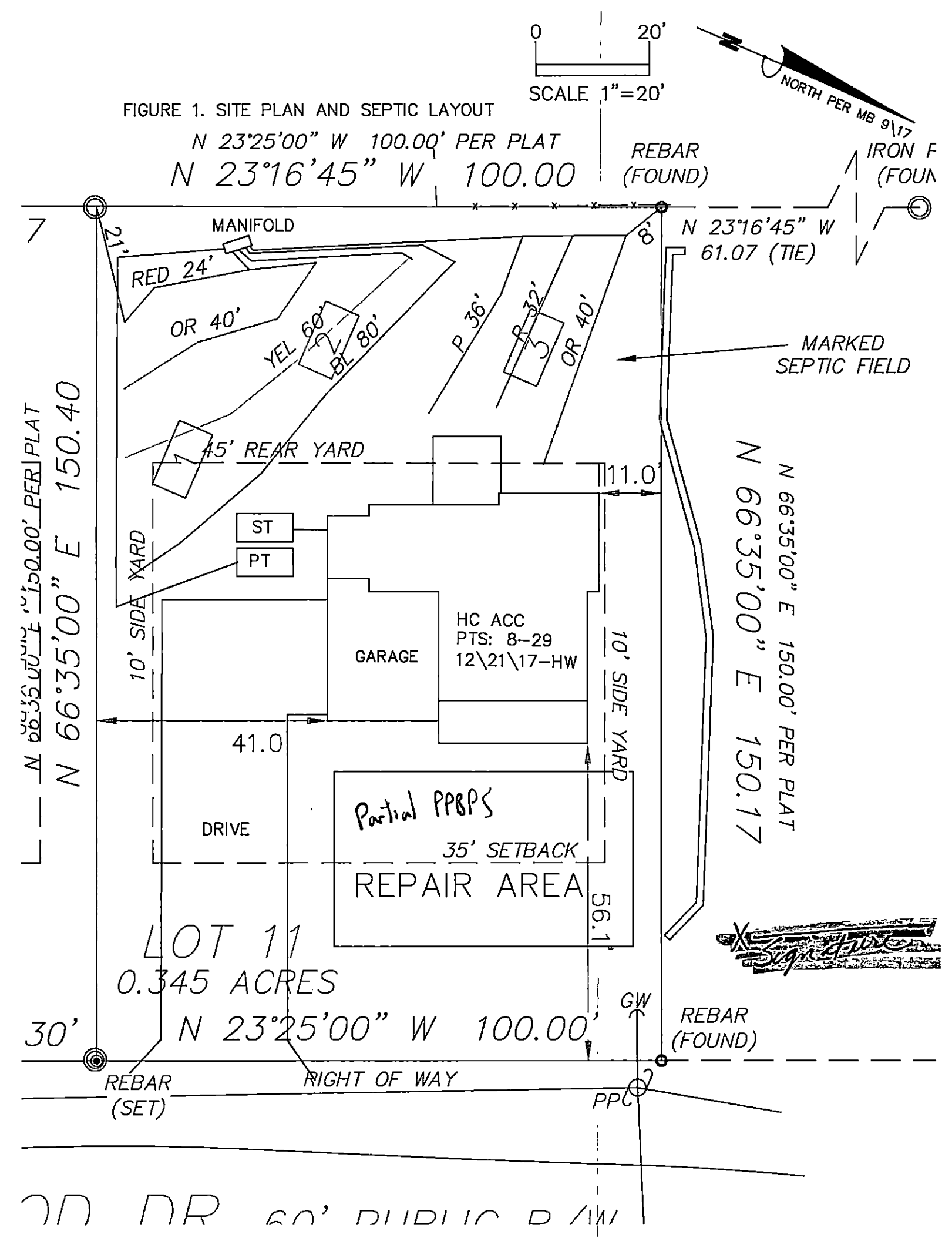
4/29/17
Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10


N 23°25'00" W 100.00' PER PLAT
N 23°16'45" W 100.00
REBAR
(FOUND)
N 23°1
61.0
N 66 33 00 E 150.40
N 66°33'00" E 150.40'
26.0'
HC ACC
PTS: 8-29
9\25\17-HW
26.0'
LOT 11
#205
0.345 ACRES
(15,029 SF)
61.0'
N 23°25'00" W 100.00'
GW
REBAR
(FOUND
REBAR
(SET)
RIGHT OF WAY
PP
D DR
60' PUBLIC R/W


0
20'
SCALE 1"=20'
NORTH PER MB 9\17
FIGURE 1. SITE PLAN AND SEPTIC LAYOUT
N 23°25'00" W 100.00' PER PLAT
N 23°16'45" W 100.00
REBAR (FOUND)
IRON F (FOUN
7
MANIFOLD
21'
8'
N. 23°16'45" W 61.07 (TIE)
RED 24'
OR 40'
YEL 60'
BL 80'
P 36'
R 32'
OR 40'
MARKED SEPTIC FIELD
45' REAR YARD
10' SIDE YARD
ST
PT
GARAGE
HC ACC
PTS: 8-29
12\21\17-HW
10' SIDE YARD
N 66°35'00" E 150.40
N 66°35'00" E 150.00' PER PLAT
N 66°35'00" E 150.17
DRIVE
Partial PPBPS
35' SETBACK
REPAIR AREA
LOT 11
0.345 ACRES
30'
N 23°25'00" W 100.00'
GW
REBAR (FOUND)
REBAR (SET)
RIGHT OF WAY
PPC
X
Signature


0
20'
SCALE 1"=20'
NORTH PER MB 9\17
FIGURE 1. SITE PLAN AND SEPTIC LAYOUT
N 23°25'00" W 100.00' PER PLAT
N 23°16'45" W 100.00
REBAR (FOUND)
IRON F
(FOUN
N 23°16'45" W
61.07 (TIE)
MANIFOLD
21'
8'
RED 24'
OR 40'
YEL 60'
BL 80'
P 36'
R 32'
OR 40'
MARKED SEPTIC FIELD
45' REAR YARD
11.0'
ST
PT
10' SIDE YARD
HC ACC
PTS: 8-29
12\21\17-HW
GARAGE
10' SIDE YARD
41.0
DRIVE
Partial PPBPS
35' SETBACK
REPAIR AREA
56.1'
LOT 11
0.345 ACRES
N 66°35'00" E 150.40
N 66°35'00" E 150.00' PER PLAT
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30'
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GW
REBAR (FOUND)
REBAR (SET)
RIGHT OF WAY
PPC

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30009323 GWS File #: 9886B Tax Parcel #: 017-353-12

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 1/19/2023

Type of Installation: Residential - New System Lot Number: 0

Structure Type: HOUSE Size (ft^2): 2570 # Bedrooms: 3 Max. Occup.: 6

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Pump to Accepted **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	900	Total Trench Length (ft):	300
Maximum Trench Depth (in):	24	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: PPBPS (pressurized) **System Classification:** N/A

Repair System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	600	Total Trench Length (ft):	200
Maximum Trench Depth (in):	30	Depth of Media (in):	0	Distribution Device:	Manifold (LPP Distri		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone Owner/Legal Agent: MATTHEW TOMKINS
Print Name

Signature: Jeremy Michelone RS-K Signature: Matthew Tomkins

Date Issued: 1/19/2018

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30009323 GWS File #: 9886B

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The permitted system design requires a pressure manifold with varying tap diameters and/or pipe schedules. The contractor should review the specification detail provided by the system designer prior to bidding the project.

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Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone RPPIS

Date Issued: 1/19/2018

Owner/Legal Agent: Matthew Tompkins
Print Name

Signature: Matthew Tompkins

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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Maximum Trench Depth (in):	24	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

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Repair System Specifications:

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- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone Owner/Legal Agent: [redacted]

Print Name

Signature: [signature] Signature: [redacted]

Date Issued: 1/19/2018

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

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- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone, REHS

Date Issued: 1/19/2018

[redacted]: Owner/Legal Agent: _____
Print Name

[redacted]: Signature: _____

2083

271

STATE OF NORTH CAROLINA,

MECKLENBURG COUNTY,

RESTRICTIVE COVENANTS

KNOW ALL MEN BY THESE PRESENTS that W AND W ENTERPRISES, INC., a corporation organized and existing under the laws of the State of North Carolina, with its principal place of business in Mecklenburg County, North Carolina, is the owner of certain property located in Huntersville Township, Mecklenburg County, North Carolina, and more particularly shown on map of Section One, Sherwood Park, Huntersville, North Carolina, by J. W. Spratt, County Surveyor, said map being recorded in Map Book 9 at page 17 in the office of the Register of Deeds for Mecklenburg County, and that the said W AND W ENTERPRISES, INC. does hereby impose the following covenants, conditions and restrictions upon the lots shown on the aforesaid map, namely

Lots Nos. 12 through 17, inclusive, in Block A
Lots Nos. 1 through 5, inclusive, in Block B
Lots Nos. 1 through 14, inclusive, in Block E
Lots Nos. 2 through 11, inclusive, in Block F A

A. These covenants are to run with the land and shall be binding on all parties hereto and all persons claiming under them until January 1, 1985, from which time the said covenants shall be automatically extended for successi periods of ten years unless by vote of the then owners of a majority of the lots it is agreed to change them in whole o in part.

B. If the parties hereto, or any of them, or thei heirs or assigns, shall violate or attempt to violate any of the covenants herein, it shall be lawful for any other person or persons owning any real property situated in the said development or subdivisions to prosecute any proceedings at law or in equity against the person or persons viol ing or attempting to violate any such covenant, and either to prevent him or them from so doing or to recover damages or other dues for such violation.

C. Invalidation of any one or more of these covenants by judgment or court order shall not in any wise affect any of the other provisions hereof, which shall remain in full force and effect.

1. All lots in the tract shall be known and described as residential lots, and no structures shall be erected altered, placed or permitted to remain on any such lot other than one detached single-family dwelling not to exceed two and one-half stories in height and a private garage for not more than two cars, together with other accessory structures customarily incidental to residential use of the lot.

2. No building shall be located on any residential building lot nearer than 35 feet to the front lot line or nearer than 25 feet to any side street line, except that on corner lots buildings shall not be nearer than 30 feet to the front lot line or nearer than 20 feet to any side street line. No building, except a detached garage or other outbuilding located 75 feet or more from the front lot line, shall be located nearer than 10 feet to any side lot line.

Proof of repair exempt

5. No residential structure shall be erected or placed on any building lot which has an area of less than 12,000 square feet or a width of less than 70 feet at the front building setback line.

6. No noxious or offensive trade or activity shall be carried on upon any lot, nor shall anything be done or permitted thereon which may be or become an annoyance or nuisance to the neighborhood. No farm animals such as cattle, horses, swine or fowls shall be kept in this subdivision.

7. No trailer, basement, tent, shack, garage, barn or other outbuilding erected in the tract shall be used at any time for a residence, temporarily or permanently, nor shall any structure of a temporary character be used as a residence.

8. All exposed exterior area of the residential structure shall be of finished construction above foundation level.

9. The ground floor area of the main structure, exclusive of one-story open porches and garages, shall be no less than 1,250 square feet of heated floor space in the case of a one-story structure and not less than 900 square feet of heated floor space in the case of a one and one-half, two or two and one-half story structure.

10. An easement is hereby reserved over the rear five feet of each lot for utility installation and maintenance, it being understood that said easement is for the mutual benefit of all the lots in this subdivision. Those lots which have the branch or creek as a line shall be subject to an easement of an additional five feet (total of ten feet) in order that the easement may follow the bank rather than the center of the creek or branch.

11. No signboards of any description shall be placed or displayed on any residential lot except "For Rent" or "For Sale", which signs shall not exceed 2 feet by 3 feet in size.

12. No fence or other obstruction exceeding 3 feet in height shall be permitted nearer the front street or side street or the side lot line than the residential building setback lines set out in paragraph 2 hereof.

13. Nothing herein shall be construed as imposing any restrictions or limitations on any property of the owner of this subdivision other than those properties to which these restrictive covenants specifically apply.

IN WITNESS WHEREOF, said W AND W ENTERPRISES, INC. has caused these presents to be signed in its name by its President, and its corporate seal to be hereto affixed and attested by its Secretary, this the 9th day of July, 1959, all in pursuance of authority duly given by resolution of its Board of Directors.

W AND W ENTERPRISES, INC.

BY _____ President

ATTEST:

_____ Secretary

NORTH CAROLINA

MECKLENBURG COUNTY

This 10th day of July, 1959, personally came before me Thomas L. Ward, who being by me duly sworn says that he is Vice President of W AND W ENTERPRISES, INC. and that the seal affixed to the foregoing instrument in writing is the corporate seal of the company, and that said writing was signed and sealed by him, in behalf of said corporation, by its authority duly given. And the said Thomas L. Ward acknowledged said writing to be the act and deed of said corporation.

Margaret L. Smith
Notary Public

My commission expires 10/24/60

STATE OF NORTH CAROLINA:
COUNTY OF MECKLENBURG:

The foregoing certificate of Margaret L. Smith a Notary Public of Mecklenburg County and State of North Carolina, is adjudged to be correct. Let the instrument and the certificate be registered.

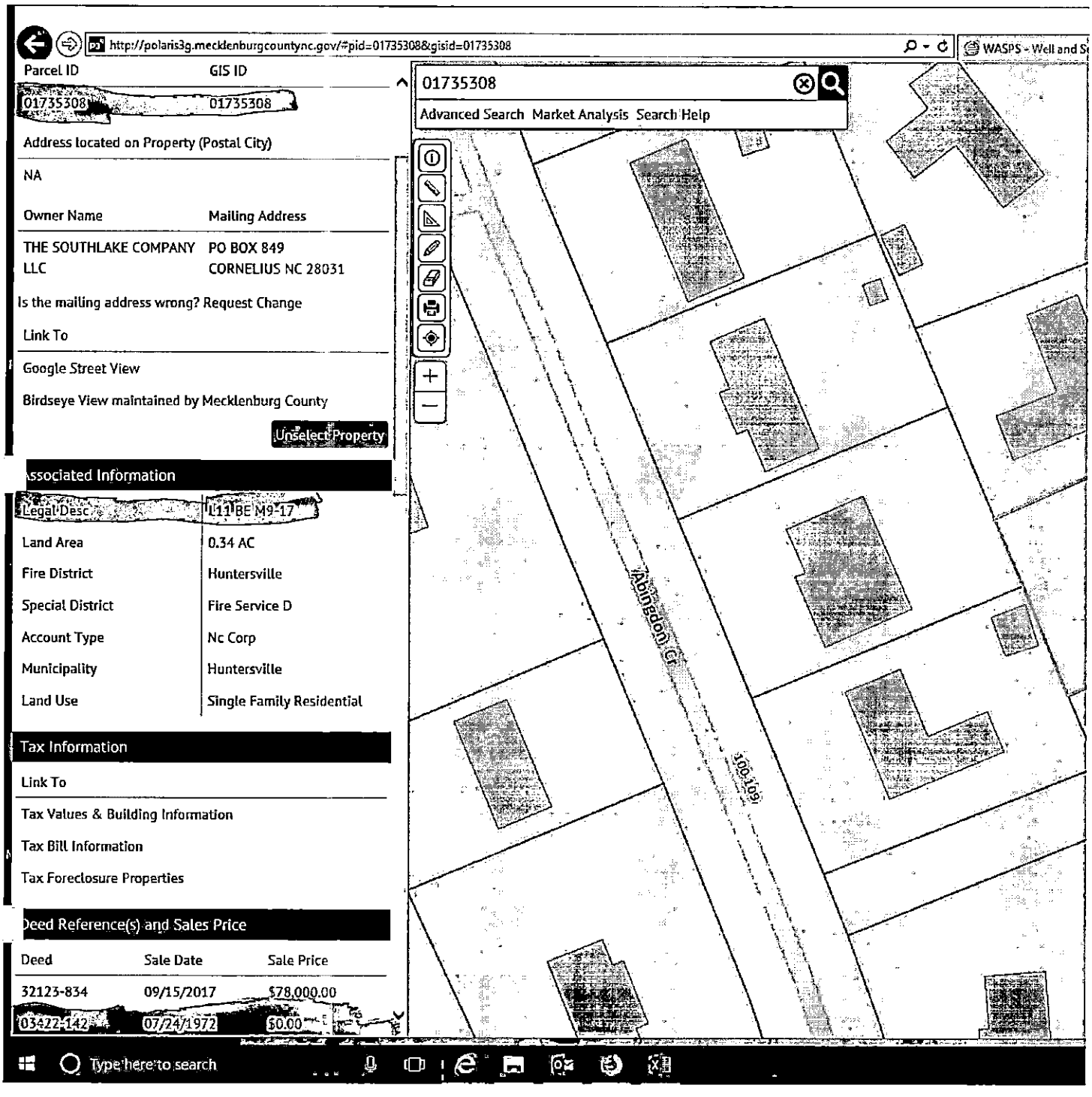
Witness my hand, this 14th day of July 1959.

J. Lester Wolfe, Clerk of Superior Court

By: Mamie J. O Wolfe
Deputy

REGISTER OF DEEDS OFFICE
MECKLENBURG COUNTY, N.C.
FILED FOR RECORD ON THE 14th
DAY OF July 1959
AT 4:27 O'CLOCK P M.
RECORDED IN BOOK PAGE
J. R. RENFROW, Register of Deeds
By Charles Saunders
DEPUTY

Presley, Jacob



Jacob Presley, LSS, REHS
Soil Scientist/Sr. Environmental Health Specialist
Mecklenburg County Groundwater & Wastewater Services
Mobile (980) 721-2060
Office (980) 314-1646
Fax (704) 336-6894

CONFIDENTIALITY NOTICE: This message and any attachments included are from the Mecklenburg County Health Department and are for sole use by the intended recipient(s). The information contained herein may include confidential or privileged information.

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 017-353-08
Lot #: 11
File #: 9886B
AppID: 9323

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: The Southlake Company
Applicant: Matthew Tompkins
Address: P.O. Box 849, Cornelius, NC 28031
Date Evaluated: 12/19/2017
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Property Size: 0.34 ac
Location of Site: 205 Sherwood Dr, Huntersville, NC 28078
Property Recorded: 1959
Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [X] Municipal
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #1	LS 3%	0 - 8	gr CL	SS SP FR SEXP	>51"	51	NA	NA		PS IV 0.3	36"
		8 - 20	sbk CL	S SP FR SEXP							
		20 - 51	sbk C	S P FR SEXP							
Pit #2	LS 3%	0 - 7	gr CL	SS SP FR SEXP	>53"	53	NA	NA		PS IV 0.3	36"
		7 - 23	sbk CL	S SP FR SEXP							
		23 - 53	sbk C	S P FR SEXP							
Pit #3	LS 3%	0 - 8	gr CL	SS SP FR SEXP	>49"	49	NA	NA		PS IV 0.3	36"
		8 - 19	sbk CL	S SP FR SEXP							
		19 - 49	sbk C	S P FR SEXP							
Pit #4	LS 12%	0 - 3	gr CL	SS SP FR SEXP	>57"	57	NA	NA		PS IV 0.3	36"
		3 - 9	sbk CL	S SP FR SEXP							
		9 - 57	sbk C	S P FR SEXP							

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	0.3	0.3

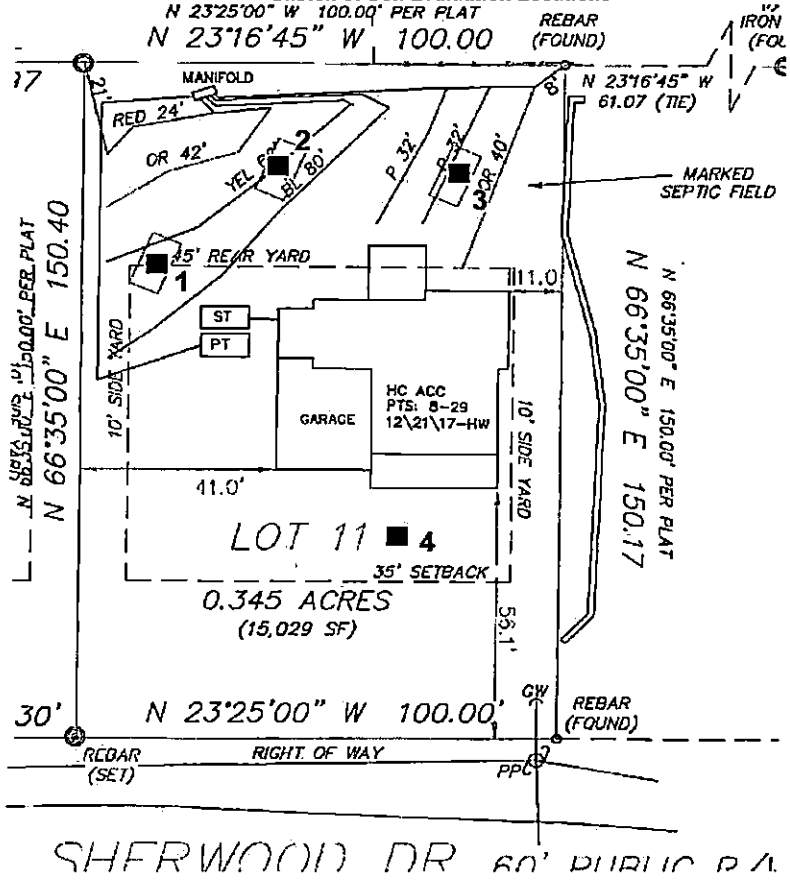
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, REHS, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS: The lot is repair exempt.

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
		SiL-Silt Loam		m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

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PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941 1941 Structure/ Texture	1941 Consistence/ Mineralogy	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
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Pit #3	LS 3%	0 - 8	gr CL	SS SP FR SEXP	>49"	49	NA	NA		PS IV 0.3	36"
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		3 - 9	sbk CL	S SP FR SEXP							
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Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	III b	IV a
Site LTAR (gpd/sq ft)	0.3	0.3

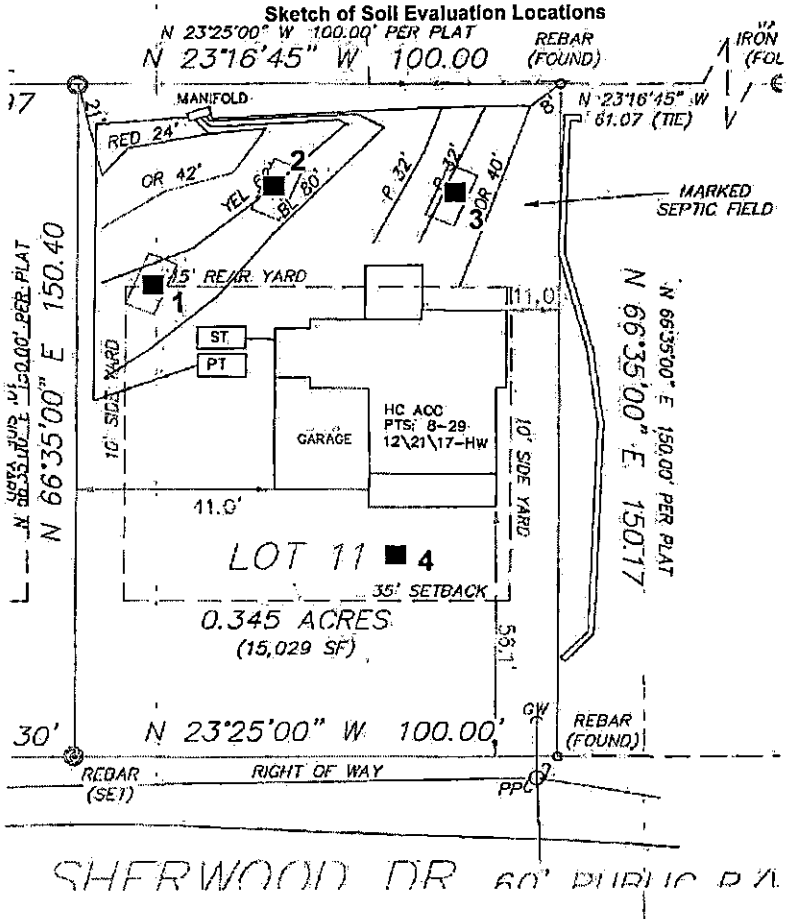
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, REHS, LSS
Others Present:
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: Jeremy Michelone, REHS
Others Present:

COMMENTS: The lot is repair exempt.

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	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

A design for a 3 Bedroom Accepted Septic System using pressure manifold distribution for lot 11 of Sherwood Park
PIN 01735308

Contents: **Page**

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Design Information
- Design Specifications ---- 2-3
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Pump Specifications ---- 12-13

Manifold Specifications ---- 14

Calculations ---- 15

January 10, 2018
Design By: W. Overby

GWS Septic System Design Review

GWS File #: 9886	Approved	Disapproved
Design Review:	☑	☐
Field Review:	☑	☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

INFORMATION FOR THE INSTALLER:

- The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by DEHNR, and certification supplied by the manufacturer.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used.
- Elevations at pinflag locations should be checked by the installer prior to beginning
- Septic tank riser shall be a minimum of 6" above finished grade.
- **System specified as 25% accepted system using p manifold distribution**
- **System trench depth specified at 24"**
- **System trenches installed on 9' minimum; 3' wide trenches**
- **See Figure 1. Septic System Layout and House Plan**
- **Meck GWS has authority to move tanks, etc.**

PRESSURE DOSED ACCEPTED SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	The Southlake Company LLC
Contact:	Matt Tompkins
Email:	thesouthlakeco@live.com
County:	Mecklenburg
Location:	Sherwood Drive

Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	360 gpd
System Flow:	28.17 gpm

Design Specifications

Drainfield Size:	312 lf
Loading Rate:	0.3 gpd/ft.^{2}
Depth of Gravel in Trench:	n/a
Gravel Size:	n/a
Trench Depth:	24 in
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	105 lf
Supply Line Diameter:	2"sch 40
Supply Line Volume:	18.27 gal
Dosing Volume:	142.62 gal

Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2ft
Friction Head:	1.66 ft
Elevation Head:	8.00 ft
Total Dynamic Head:	11.91 ft
Threaded Union:	N/A
Gate Valves:	1 in tank; 1 in manifold
Check Valves:	In Tank
Anti-Siphon Hole:	N/A
Recommended Pump:	Myers ME3H or county approved

Lot 11 Sherwood Park
Manifold Design

DESIGN FLOW:	360	gpd
SOIL APPLICATION RATE:	0.3 gpd/ft.^{2}	
TOTAL AREA TRENCH BOTTOM:	936	sf
TOTAL LATERAL LENGTH:	312	lf
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	300	lf
SUPPLY LINE LENGTH:	105	lf
TOTAL DYNAMIC HEAD:	11.91	gpm
DOSING VOLUME:	142.62	gal
PUMP TANK DRAW DOWN*:	6.8	in
SEPTIC TANK SIZE:	1000	
PUMP TANK SIZE:	1000	
RECOMMENDED PUMP:	Myers ME3H or county approved	

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

Lot 11 Sherwood Park

Layout for a 3 bedroom home **Jan-18**

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM		14.5			100.0		
INSTR. 1			114.5				
			SYSTEM				
1	Red			4.30	110.2	24	24
2	Orange			5.00	109.5	42	40
3	Yellow			6.00	108.5	62	60
4	Blue			6.80	107.7	80	80
5	Pink			7.40	107.1	32	36
6	Red			8.30	106.2	32	32
7	Orange			9.20	105.3	40	40
						312	312

	LINE LENGTH	LTAR GPD/FT²	SYSTEM TYPE	REDUCTION TYPE	DIST	TRENCH DEPTH
SYSTEM	312	0.300	ACCEPT	25%	MANIFOLD	24

REPAIR *area in front yard*

Notes:

**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings

Lot 11 Sherwood Park

SYSTEM FLOW
DESIGN SPECIFICATIONS

Line #	Color	Elev	Length	Hole Size	Flow/Tap	Line gpd	Line Trench Area	Flow/Line	Line LTAR
1	R+O	100	64	SCH 80 1/2	**5.48**	70.03	192	**0.086**	**0.36**
2	Yellow	98.4	60	SCH 80 1/2	**5.48**	70.03	180	**0.091**	**0.39**
3	Blue	97.65	80	SCH 40 1/2	**7.11**	90.86	240	**0.089**	**0.38**
4	P+R+O	96.8	108	SCH 80 3/4	**10.1**	129.07	324	**0.094**	**0.40**
	total	**feet =**	312	**gal/min =**	**28.17**				

Des. Flow	**360**
Pump Run to Dose 360gpd=	**12.78**
soil LTAR	**0.3**
Accepted LTAR	**0.40**
Accepted LTAR +5%	**0.42**

THIS IS TO CERTIFY THAT ON THE 25th DAY OF SEPTEMBER, 2017 AN ACTUAL SURVEY WAS MADE UNDER MY SUPERVISION OF THE PROPERTY SHOWN ON THIS PLAT, AND THAT THE BOUNDARY LINES AND THE IMPROVEMENTS, IF ANY, ARE AS SHOWN HEREON.

SIGNED_____
PROFESSIONAL LAND SURVEYOR

NOTES:

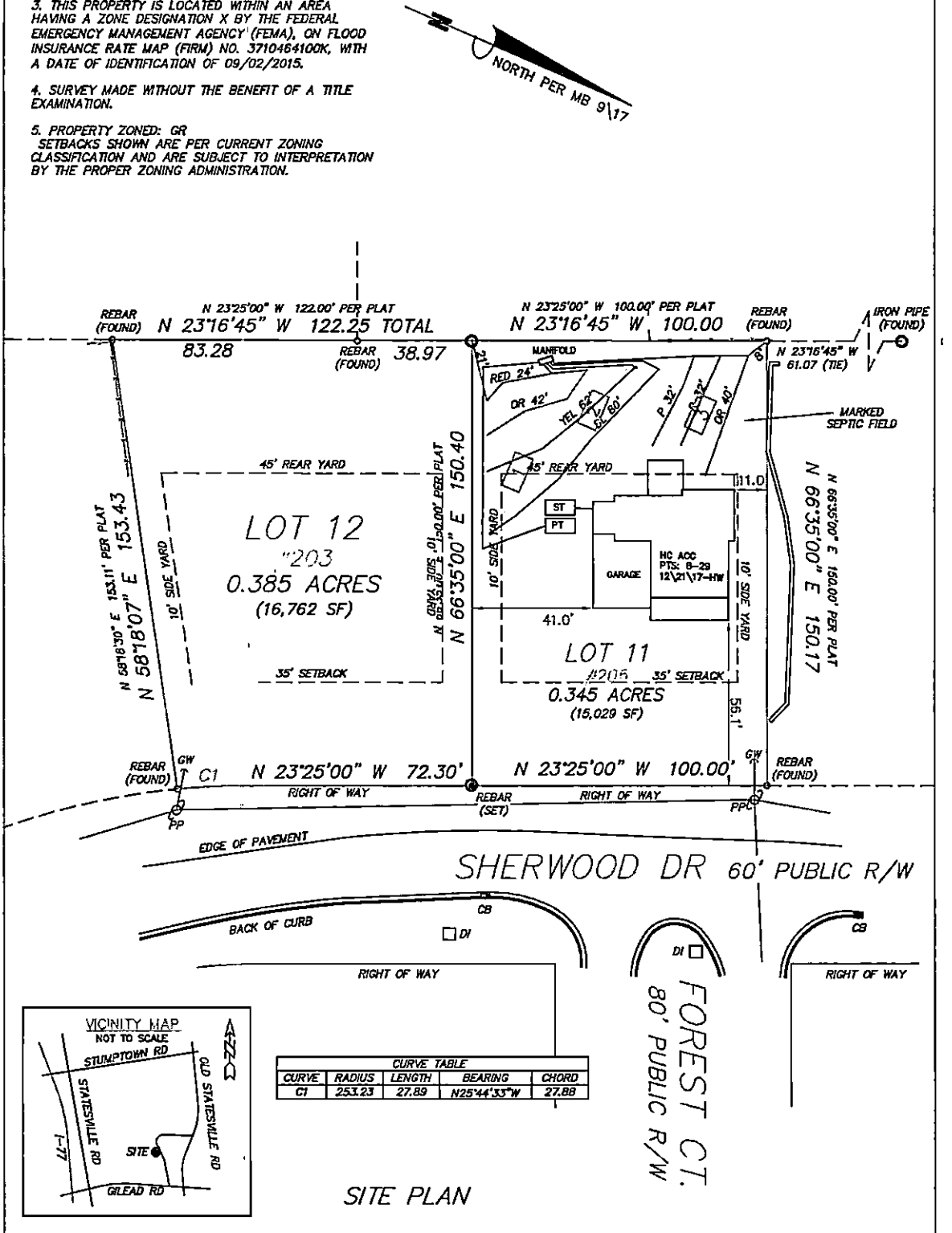
1. PID 01735308 & 01735312

2. THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL RECORDED OR UNRECORDED EASEMENTS, SETBACKS, BUFFERS, RIGHTS-OF-WAY, OR RESTRICTIVE COVENANTS, OTHER THAN SHOWN.

3. THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION X BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP (FIRM) NO. 3710464100K, WITH A DATE OF IDENTIFICATION OF 09/02/2015.

4. SURVEY MADE WITHOUT THE BENEFIT OF A TITLE EXAMINATION.

5. PROPERTY ZONED: GR
SETBACKS SHOWN ARE PER CURRENT ZONING CLASSIFICATION AND ARE SUBJECT TO INTERPRETATION BY THE PROPER ZONING ADMINISTRATION.



CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	253.23	27.89	N25°44'35"W	27.88

SITE PLAN

SCALE 1"=40'

LOT 12 & 11 SHERWOOD PARK

CITY OF HUNTERSVILLE, MECKLENBURG COUNTY, NORTH CAROLINA

SOUTHLAKE COMPANY, LLC

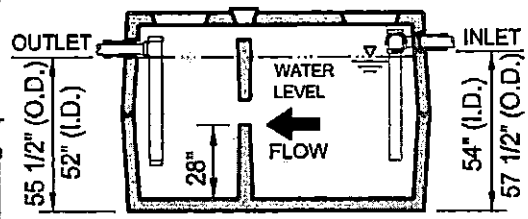
9 17
RD MB\BC

2017\HC\Sherwood Park
2017\S\Sherwood Park

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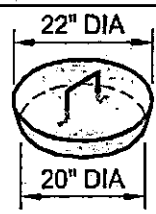
GENERAL NOTES:

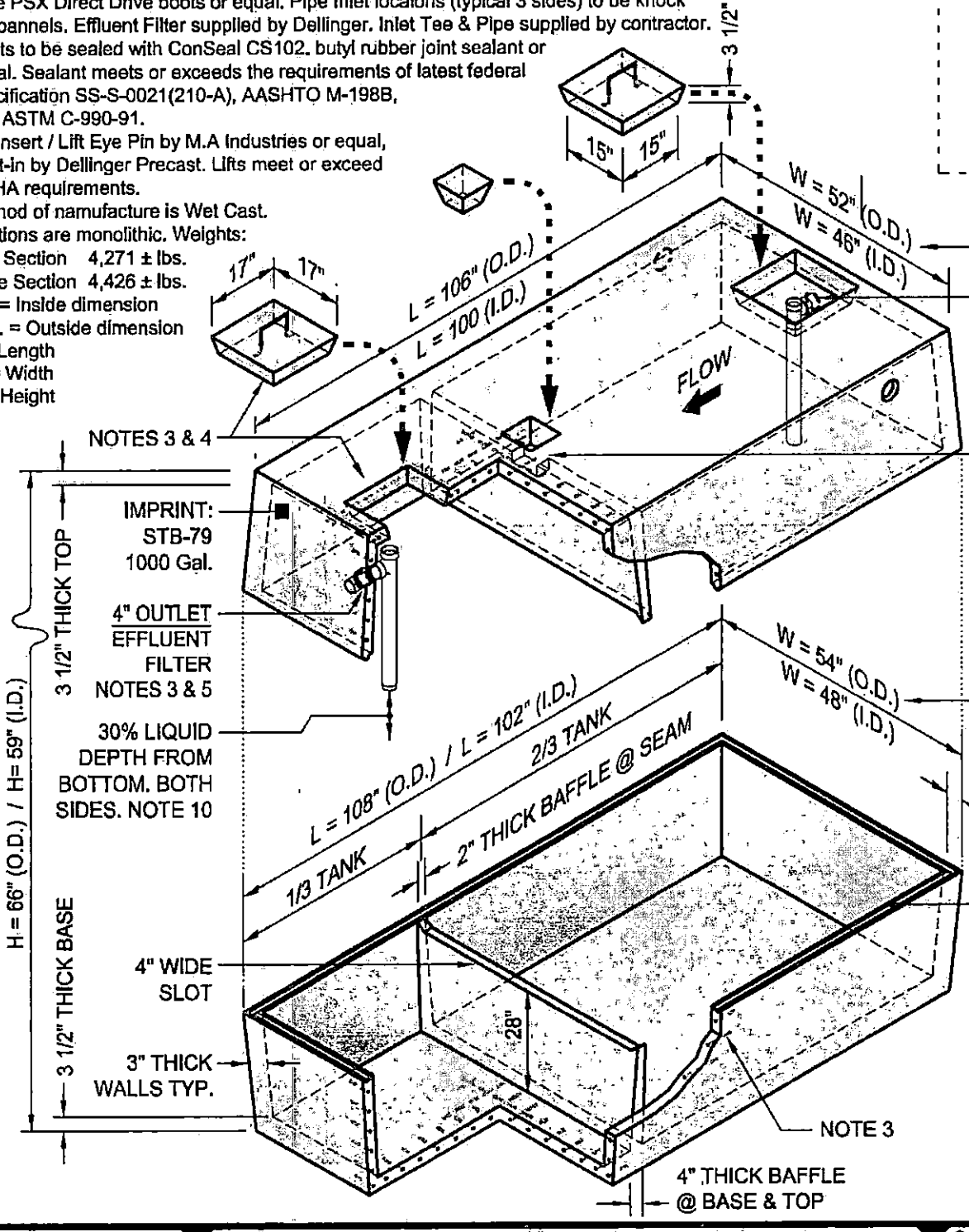
1. Design specifications conform to latest ASTM C1227 specifications "Precast Concrete Water and Wastewater Structures"
2. Concrete compressive strength 4,000 psi minimum.
3. Steel reinforcing design to conform to the requirements of ASTM C890 specifications for "Structural Design Loading for Water and Wastewater Structures" and shall utilize grade 60 re-bars conforming to the requirements of ASTM A615 or WWF conforming to the requirements of ASTM A185 or both. Place Additional reinforcing at all openings.
4. Optional Cast Iron casting with 24" dia. access in top section per NCDOT standards or optional 20" round EZ set lid or as otherwise specified. Supplied by either Dellinger Precast or customer. To be field adjusted using approved methods by contractor.
5. Pipe penetration locations as per job requirements. Pipe inlet and outlet locations to have PSX Direct Drive boots or equal. Pipe Inlet locaions (typical 3 sides) to be knock out pannels. Effluent Filter supplied by Dellinger. Inlet Tee & Pipe supplied by contractor.
6. Joints to be sealed with ConSeal CS102. butyl rubber joint sealant or equal. Sealant meets or exceeds the requirements of latest federal specification SS-S-0021(210-A), AASHTO M-198B, and ASTM C-990-91.
7. Lift Insert / Lift Eye Pin by M.A Industries or equal, Cast-in by Dellinger Precast. Lifts meet or exceed OSHA requirements.
8. Method of manufacture is Wet Cast.
9. Sections are monolithic. Weights:
   Top Section 4,271 ± lbs.
   Base Section 4,426 ± lbs.
10. I.D. = Inside dimension
    O.D. = Outside dimension
    L = Length
    W = Width
    H = Height



ELEVATION

OPTIONAL ROUND LID





TOP SECTION

BASE SECTION

DELLINGER PRECAST
4531 North Hwy 16 ▪ Denver, N.C. 28037 ▪ Phone: 800-948-1666 ▪ 704-483-2868 ▪ Fax: 704-483-2363

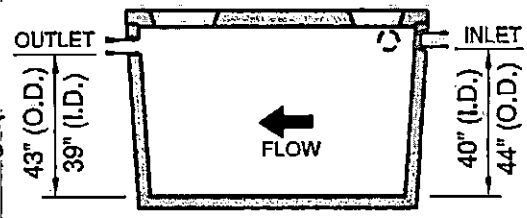
1,000 Gallon (Mid Seam) SEPTIC TANK

Scale: Not To Scale
Revision Date: February 2008
Detail # ST-1,000-MS

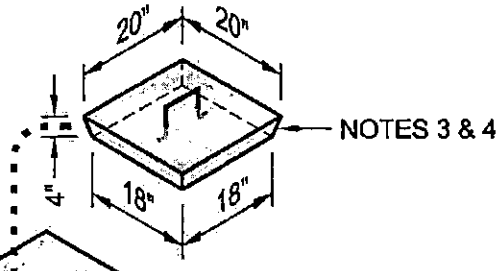
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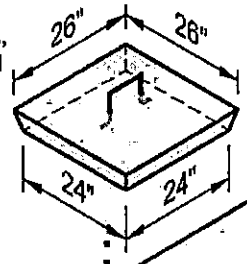
GENERAL NOTES:

1. Design specifications conform to latest ASTM C1227 specifications "Precast Concrete Water and Wastewater Structures"
2. Concrete compressive strength 4,000 psi minimum.
3. Steel reinforcing design to conform to the requirements of ASTM C890 specifications for "Structural Design Loading for Water and Wastewater Structures" and shall utilize grade 60 re-bars conforming to the requirements of ASTM A615 or WWF conforming to the requirements of ASTM A185 or both. Place Additional reinforcing at all openings.
4. Optional riser or optional 24" round EZ set lid. Supplied by either Dellinger Precast or customer. To be field adjusted using approved methods by contractor.
5. Pipe penetration locations as per job requirements. Pipe inlet and outlet locations to have PSX Direct Drive boots or equal. Pipe inlet locaions (typical 3 sides) to be knock out pannels. Effluent Filter supplied by Dellinger. Pipe supplied & installed by contractor.
6. Joints to be sealed with ConSeal CS102. butyl rubber joint sealant or equal. Sealant meets or exceeds the requirements of latest federal specification SS-S-0021(210-A), AASHTO M-198B, and ASTM C-990-91.
7. Lift Insert / Lift Eye Pin by M.A Industries or equal, Cast-In by Dellinger Precast. Lifts meet or exceed OSHA requirements.
8. Method of namufacture is Wet Cast.
9. Sections are monolithic. Weights:
   Top Slab 1,712 ± lbs.
   Base Section 5,865 ± lbs.
10. I.D. = Inside dimension
    O.D. = Outside dimension
    L = Length
    W = Width
    H = Height

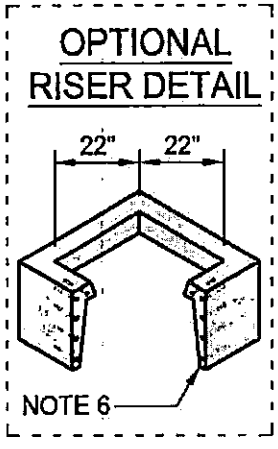


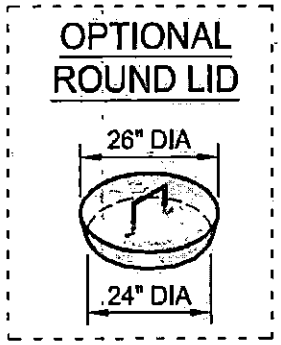
ELEVATION

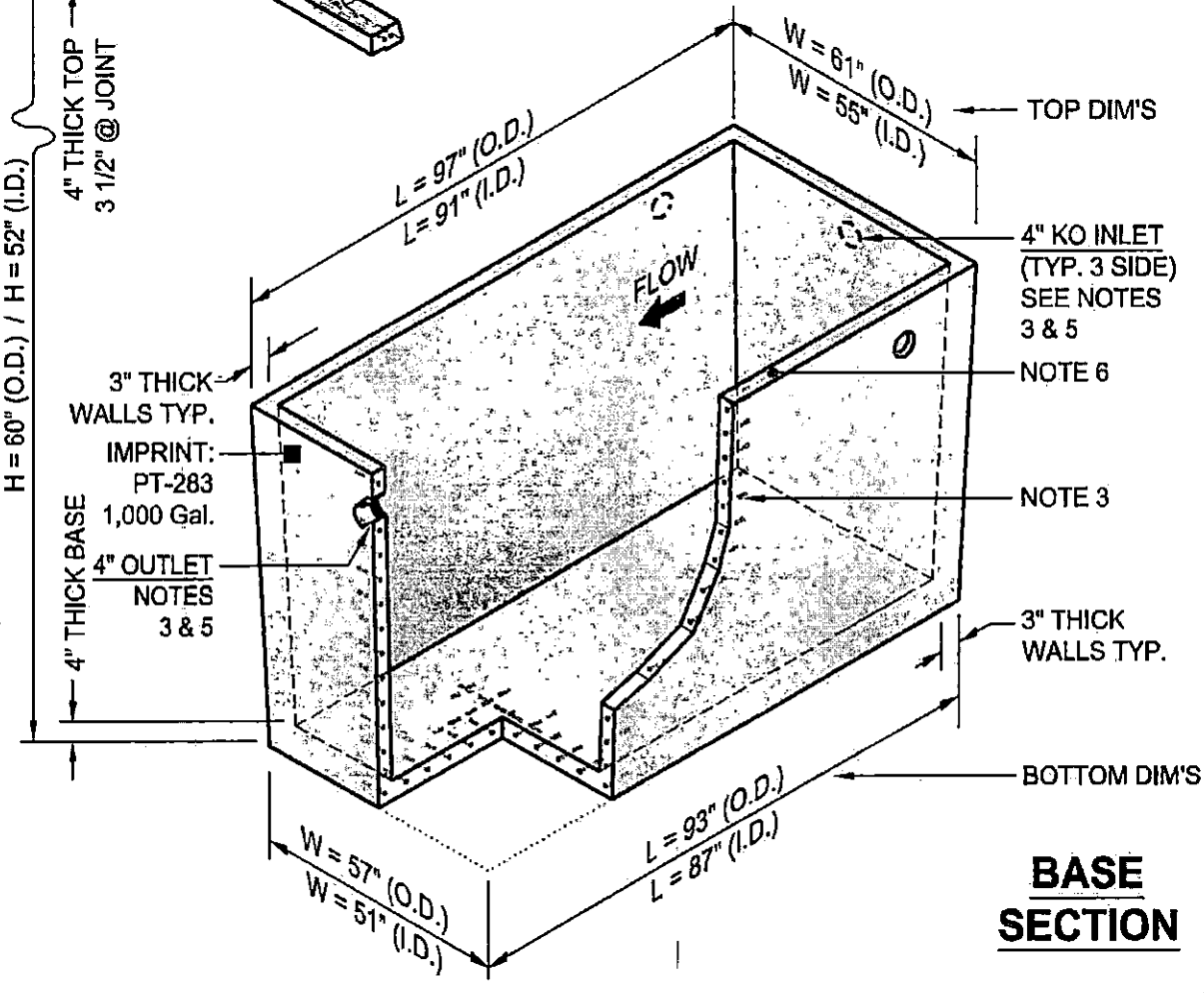




TOP SLAB





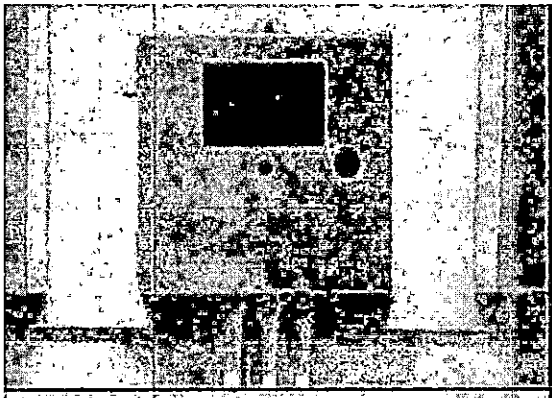


BASE SECTION

DELLINGER PRECAST
4531 North Hwy 16 ▪ Denver, N.C. 28037 ▪ Phone: 800-948-1666 ▪ 704-483-2868 ▪ Fax: 704-483-2363

1,000 Gallon (Top Slab) PUMP TANK

Scale: Not To Scale
Revision Date: February 2008
Detail # PT-1,000-TS



Build-A-Panel™

SJE-Rhombus Build-A-Panel™ control panels offer **pump control and alarm notification** in one convenient package for a variety of on-site applications, including pump chambers, sump pump basins, irrigation systems, lift stations and more.

Build-A-Panel™ Control Panel Models:

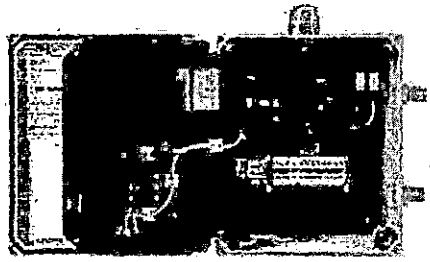
- RLS Panels Simplex/Duplex
- NEX Series™ Simplex
- Single Phase Simplex (111, 115, 112)
- Single Phase Duplex (122)
- Three Phase Simplex (312)
- Three Phase Duplex (322)
- Capacitor Start/Run (113, 123)
- Intrinsically Safe (114, 124, 314, 324)
- Time Dosing (TD, DTD, PS11/PS12)
- Plugger Products (JBP, PS Patrol®, UltraNator™, SJE Oil Spotter™, SJE Oil Spotter™ Auto)
- Water Well (126)
- Select Start™ Starter Boxes

Build-A-Panel™ control panels are the right option for your installation. Ordering by options provides you with **greater flexibility**, allowing you customize "standard" control panels to suit your specific needs, whether adding an elapsed time meter, cycle counter or changing float switches. Your Build-A-Panel™ control panels will be **delivered quickly**, at an **affordable price**. UL/cUL Listed.

Each Build-A-Panel™ control panel comes complete with float switches, electrical schematics, float terminal blocks, step-by-step installation instructions and are backed by a five-year limited warranty.

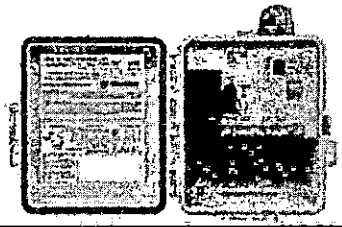
Need your panel in a hurry? Don't worry! SJE-Rhombus offers the Panel Express Program to expedite your panels as fast as the next day! Learn more at www.sjerhombus.com

RLS Panel Simplex and Duplex



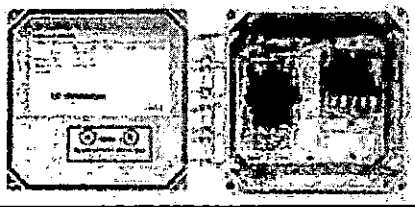
- Designed to control one or two 120/208/240V single phase pump(s).
- Utilizes magnetic motor contactor to control pump
- Standard components allow for easy troubleshooting and service
- UL/cUL Listed

NEX Series™ Single Phase Simplex



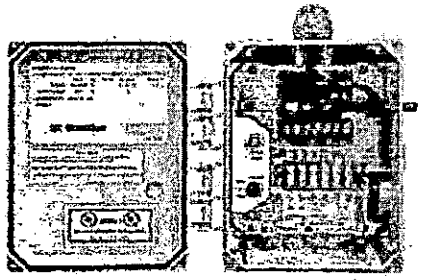
- Designed to control one single phase pump in water and wastewater applications
- Universal pump voltage and control/alarm power allows the panel to handle three voltages (120/208/240V)
- Compact NEMA 4X enclosure
- UL/cUL Listed

Model 111 Single Phase Simplex



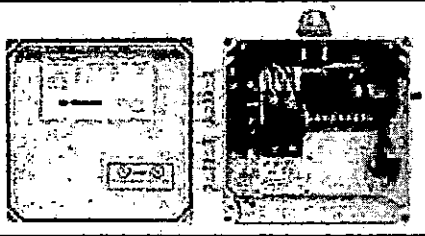
- Provides a reliable means of controlling one 120/208/240V single phase pump in water and wastewater applications
- NEMA 1 or NEMA 4X enclosure
- UL/cUL Listed

Model 115 Single Phase Simplex



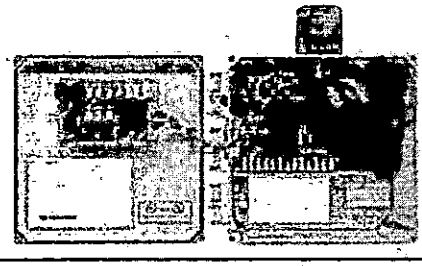
- Provides a reliable means of controlling one 120/208/240V single phase pump in water and wastewater applications
- NEMA 1 or NEMA 4X enclosure
- Pump switch turns pump on/off
- Alarm switch activates alarm
- UL/cUL Listed

Model 112 Single Phase Simplex



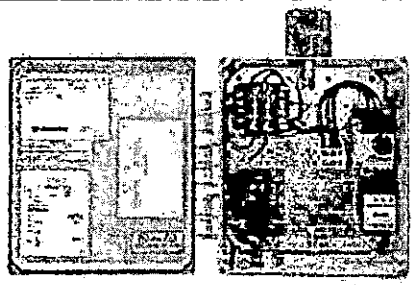
- Provides a reliable means of controlling one 120/208/240V single phase pump in water and wastewater applications
- NEMA 4X enclosure
- UL/cUL Listed

Model 122 Single Phase Duplex



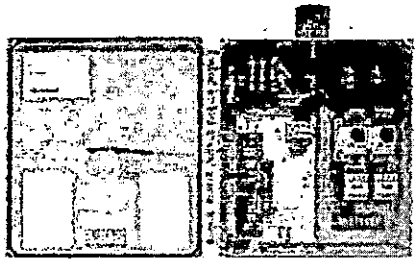
- Designed to alternately control two 120/208/240V single phase pumps in water and wastewater applications
- NEMA 1 or NEMA 4X enclosure
- Alternating pump control with override equalizes pump wear
- UL/cUL Listed

Model 312 Three Phase Simplex



- Provides a reliable means of controlling one 208/240/480V three phase pump in commercial and industrial water and wastewater applications
- NEMA 4X enclosure
- IEC motor contactor control
- UL/cUL Listed

Model 322 Three Phase Duplex



- Designed to alternately control two 208/240/480V three phase pumps in commercial and industrial water and wastewater applications.
- NEMA 4X enclosure.
- Alternating pump control with override equalizes pump wear.
- UL/cUL Listed.

Pump Switches

Wide-angle pump switches directly control pumps up to 3 HP at 250 VAC. Each switch features an adjustable pumping range.

Control Switches

Narrow-angle control switches accurately monitor high (normally open) or low (normally closed) liquid level conditions in water and sewage applications to activate control panels and alarms. Select models have colored caps for easy identification.

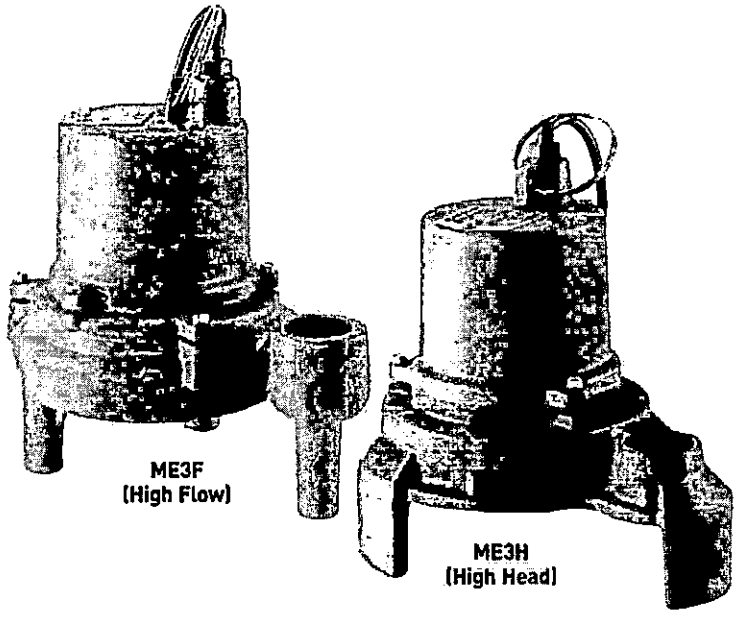


Pump Switch	Type of Activation	Pump Control	Max Pump Run Current	Max Pump Start Current	Pumping Range
SJE PumpMaster® WPS	Mechanical	1/2 HP, 120V 1 HP, 230V min load: 120V, 100 mA	13A, 120V 13A, 230V	85A, 120V 85A, 230V	7 to 36 inches
SJE PumpMaster®	Mechanical	1/2 HP, 120V 1 HP, 230V	13A, 120V 13A, 230V	85A, 120V 85A, 230V	7 to 36 inches
SJE PumpMaster® Plus	Mechanical	3/4 HP, 120V 2 HP, 230V	15A, 120V 15A, 230V	85A, 120V 85A, 230V	7 to 36 inches
SJE PumpMaster® SPDT (Single Pole, Double Throw)	Mechanical	1/2 HP, 120V 1 HP, 230V	13A, 120V 13A, 230V	85A, 120V 85A, 230V	7 to 36 inches
Double Float® Master	Mechanical	15 FLA, 90 LRA 120 or 240V	15A, 120V 15A, 240V	90A, 120V 90A, 240V	4 to 48 inches (wider available)
SJE AmpMaster®	Mechanical	1 1/2 HP, 120V 3 HP, 250V	20A, 125V 20A, 250V	120A, 125V 120A, 250V	9 to 24 inches
SJE VerticalMaster® (For Limited Space Applications)	Mechanical	1/2 HP, 120V 1 HP, 230V	13A, 120V 12A, 230V	60A, 120V 60A, 230V	.75 to 6.5 inches
SJE MicroMaster® AC/DC	Mechanical	Use pump run and start current	10A, 12VDC/125VAC 8A, 250VAC	100A, 12VDC 60A, 125V/250V	8 to 36 inches
SJE MicroMaster® Plus WS	Mechanical	Use pump run and start current	13A, 125V 13A, 250V	78A, 125V 78A, 250V	8 to 36 inches
Junior Super Single®	Mercury	1/2 HP, 120V 1 HP, 230V	13A, 120V 8A, 230V	40A, 120V 20A, 230V	6.5 to 19 inches
Super Single®	Mercury	1 HP, 120V 2 HP, 230V	15A, 120V 12A, 230V	55A, 120V 35A, 230V	6.5 to 13.5 inches
Double Float®	Mercury	1 HP, 120V 2 HP, 230V	15A, 120V 12A, 230V	55A, 120V 35A, 230V	1.75 to 48 inches (wider available)
SJE HiTempMaster™	Mechanical	Use pump run and start current	13A, 120V 13A, 230V	78A, 125V 78A, 250V	8 to 36 inches

Control Switch	Type of Activation	Control Differential	Electrical Rating	Mounting Options
EZconnex® Float Connection System	Mechanical	Narrow 1.5 inches; Wide 4 inches above or below horizontal	125 VAC/30 VDC 0.160mA-1A; 5VDC 1mA min.	Mounting clamp
SJE MegaMaster®	Mechanical	Approximately 10° above or below horizontal	1 mA - 1 amp 4VDC - 125VAC	Float Bracket
SJE SignalMaster® (NO - Yellow Cap; NC - White Cap)	Mechanical	Approximately 1.5 inches above or below horizontal	5 amp 125V or 250V	Mounting clamp or cable weight
SJE SignalMaster® SPDT (Single Pole, Double Throw; Green Cap)	Mechanical	Approximately 1.5 inches above or below horizontal	5 amp 125V or 250V	Mounting clamp or cable weight
SJE MilliAmpMaster® (Narrow-Angle or Wide-Angle; Blue Cap)	Mechanical	Narrow 1.5 inches; Wide 4 inches above or below horizontal	0.160 - 100 mA 5V - 125V	Mounting clamp or cable weight
Sensor Float®	Mercury	Approximately .5 inches above or below horizontal	5 amp 120V or 230V	Mounting clamp, cable weight, internal weight
Sensor Float® Mini	Mercury	Approximately .5 inches above or below horizontal	5 amp 120V or 230V	Mounting clamp or cable weight

MYERS® ME3 SERIES

The Myers® ME3 series submersible effluent pumps are constructed of the most durable combination of materials to withstand the harshest environments. The ME3 is available with a recessed impeller for high-head applications or an enclosed impeller for high-flow installations. Available in tethered automatic piggyback models or manual models for use with external controls.



APPLICATIONS

Effluent removal, sump drainage, water transfer, flood control

SPECIFICATIONS

Capacities – ME3H: 36 GPM (136 LPM); ME3F: 66 GPM (249 LPM)
Shut-off Head – ME3H: 35' (10.7 m); ME3F: 31' (9.5 m)
Maximum Spherical Solids – 3/4" (19 mm)
Liquids Handling – Domestic effluent and drain water
Intermittent Liquid Temperature – Up to 140°F (60°C)
Motor/Electrical Data – 1/3 HP, 1550 RPM, shaded pole, oil-filled; 115V, 12A, 1Ø, 60Hz; 230V, 6A, 1Ø, 60Hz
Acceptable pH Range – 6-9
Specific Gravity – .9-1.1
Viscosity – 28-35 SSU
Discharge, NPT – 1-1/2" (50.8 mm)
Housing – Heavy cast iron
Minimum Sump Diameter – Simplex: 24" (61 cm)
Duplex: 36" (91.4 cm)
Power Cord – 20', 16/3, SJTW

FEATURES

Two Powerful Pumps
High head (ME3H), High flow (ME3F)

Maximum Heat-handling
Durable, oil-filled motor for continuous bearing lubrication and maximum heat dissipation

Powerful Starts
High-torque, no starting switches or relays to wear out

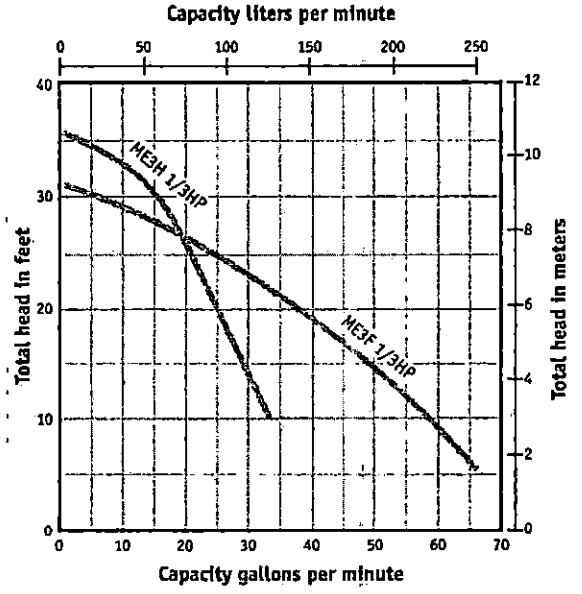
Thermal Protection
Heat sensor overload protection with automatic reset when motor cools to a safe operating temperature

Longer-lasting Motor
Lower ball bearing eliminates sleeve bearing wear and reduces motor wear

Manual Operation
Tethered automatic models can be operated manually by unplugging piggyback switch and plugging pump directly into outlet

MYERS® ME3 SERIES

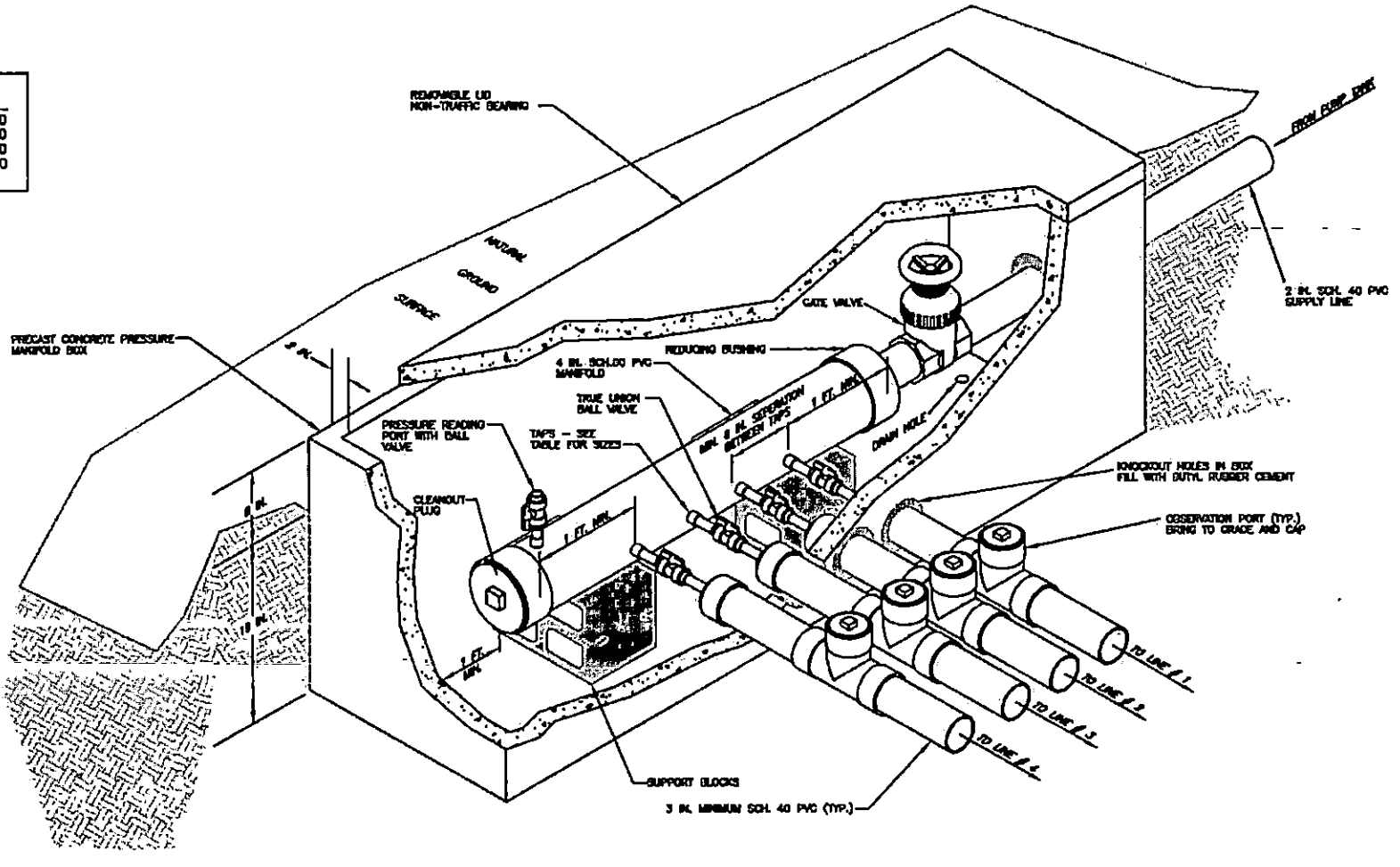
PUMP PERFORMANCE



PRESSURE MANIFOLD DETAILS
FOR
LOT 11 SHERWOOD PARK

TAP SIZES

LINE No.	TAP SIZE
1	1/2" SCH. 80
2	1/2" SCH. 80
3	1/2" SCH. 40
4	3/4" SCH. 80



CALCULATIONS

Location Sherwood Park

Project Number 17_1100

Lot No: 11

No. of Bedrooms 3

Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
Accepted? (YES OR NO)	YES	
Supply Line Length	105	ft.
Supply Line Volume	18.27	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	312	ft.
Gallons per Minute	28.17	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	203.736	gal.
Dosing Volume	142.62	gal.
Tank Draw Down	6.8	in.
	Generic Draw Down of 21 gal.per in.	
Pump Run Time	5.06	minutes
Elevation Head	8	ft.
Pressure Head	2	ft.
Friction Factor	1.58	ft./100 ft. *(From the interpolater.)*
Friction Head	1.66	ft.
Friction Head +15%	1.90785	
Total Dynamic Head (+15%)	11.91	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
28	1.58
30	1.78
	-1.76
35	2.37
37	2.63
40	3.03
42.4	3.39
45	3.77
46.51	4.01
50	4.58
57.11	5.89
60	6.42

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 9886 App # 9503 Tax Parcel # 017-353-08

Property Owner: The Sanctuary Company

Job Location Address: 205 Sherwood Drive

City: Huntersville State: NC Zip Code: 28078

1. **Does System design match facility, flow & wastewater characteristics?**

   ☒ YES ☐ NO

   Comments:

2. **Is there sufficient available space for the septic systems initial and repair areas?**

   ☒ YES ☐ NO

   Comments:

3. **Can the septic system be installed per the permit conditions and drawing on file?**

   ☒ YES ☐ NO

   Comments:

* If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☐ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Jimmy Mack R645 — Authorized Agent

9/13/18 — Date

Shannon / Groundbreakers — Others Present

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	08/15/18	**Amount:**	200.00
Receipt #:	112470	**Tendered:**	200.00
Check / Auth #:	CHECK 5280	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: THE SOUTHLAKE COMPANY LLC
Attn:
Address: PO BOX 849
Address:
City/State/Zip: CORNELIUS, NC 28031

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 205 SHERWOOD DR		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
65.00					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	08/15/18	**Amount:**	200.00
Receipt #:	112469	**Tendered:**	200.00
Check / Auth #:	CHECK 5280	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: THE SOUTHLAKE COMPANY LLC
Attn:
Address: PO BOX 849
Address:
City/State/Zip: CORNELIUS, NC 28031

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 205 SHERWOOD DR		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
65.00					

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211, Charlotte, NC 28202
Phone: (980) 314-1680 • Fax (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9886B Permit #: 9323 Tax Parcel #: 017-353-08

Property Owner: The Southlake Company

Job Location Address: 205 Sherwood Drive

City: Huntersville State: NC Zip Code: 28078

Operation Permit Issuance Date: 9/14/18 **Contractor Name:** Grand Breakers

Permitted Design Flow: 360 GPD Liquid Capacity of Dosing Tank: 1000 gallons

Liquid Capacity of Septic Tank: 1000 gallons Manufacture SHOAF Effluent Pump Model: Zoeller

Drainfield Installation ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 312 feet

# of Lines: 7 @ VARY feet 24, 40, 60, 80, 36, 32, 40

Depth of Media: 12 inches (Type) IQ4W

Depth of Cover: 12 inches

Distribution Device: P. Manifold

Bed Installation (For Repair Installations ONLY) ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 5' feet

Distance from Property Line: 5' feet

Distance from Water Supply Source: >100' feet

Inspection Dates

Tank(s) Inspected: 9/14/18

Excavation Inspected: 9/14/18

Pump & Controls Inspected: 9/14/18

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

System Installed exactly as designed By Soil & Forestry Services

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operated properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments" This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: III-b, IQ4W, Pressure, NA, NA

DENR Authorized Agent: Jeremy Mecklenburg REHS Signature: Jeremy Mecklenburg REHS

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9886B Permit #: 9323 Tax Parcel #: 017-353-08

Property Owner: The Southlake Company

Job Location Address: 205 Sherwood Drive

City: Huntersville State: NC Zip Code: 28078

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: III b

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☒ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Jeremy Mecklenburg REHS Date: 9/14/18

Signature: Jeremy Mecklenburg REHS

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

September 18, 2018

Mecklenburg County Groundwater and Wastewater Services
Attn: Jeremy Michelone
700 N. Tryon Street, Suite 211
Charlotte, NC 28202

Re: 205 Sherwood Drive-Huntersville, NC

Dear Mr. Michelone,

A 3-bedroom chamber system was recently installed at 205 Sherwood Drive in Huntersville. S&FS evaluated soil conditions and met with GWS personnel in preparing a design of the system. S&FS initially flagged the proposed septic trenches for the installer. Post home construction layout flags were re-established prior to installation. Additionally, we witnessed a portion of the system being installed. Based on our site visit we are satisfied the system was installed per design.

Sincerely,

Wendell Overby

Wendell Overby
NC Licensed Soil Scientist
NC Registered Forester

Cc Matt Tompkins

APPROVED AS NOTED

A LIMITED REVIEW FOR COMPLIANCE WITH THE 2012 NC RESIDENTIAL CODE. THIS AUTHORIZATION SHALL NOT BE CONSTRUED TO PERMIT ANY VIOLATIONS OF LOCAL, STATE, OR FEDERAL LAWS.

PLANS REVIEWED BY:

Jared Salema

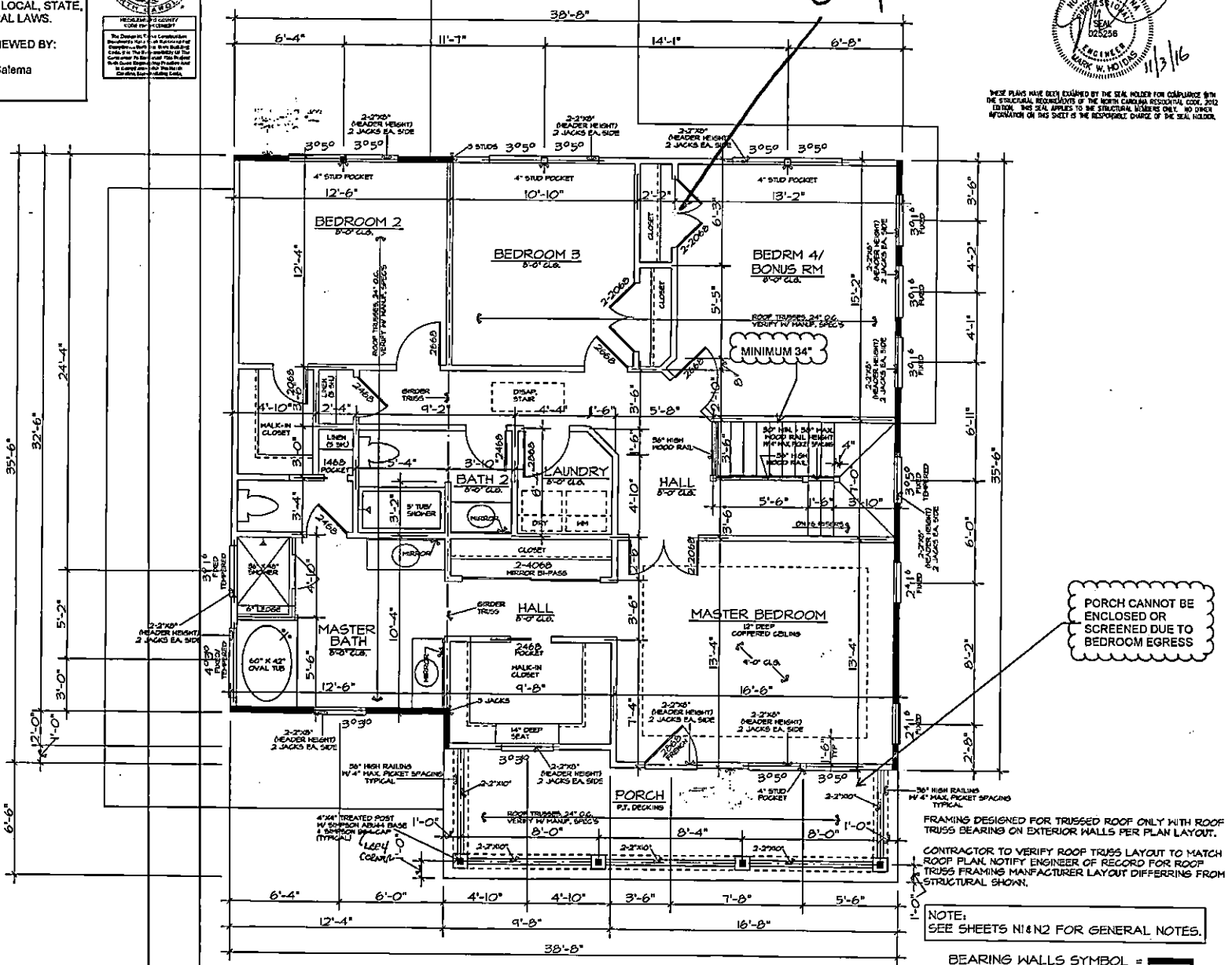
MECKLENBURG COUNTY CODE ENFORCEMENT

Mark W. Holdas, P.E.
Holdas Engineering, PLLC
20450 CHARTWELL CENTER DR.
SUITE 2
COR[illegible]

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 025258 ENGINEER MARK W. HOLDAS 11/3/16

THESE PLANS HAVE BEEN EXAMINED BY THE SEAL HOLDER FOR COMPLIANCE WITH THE STRUCTURAL REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012 EDITION. THIS SEAL APPLIES TO THE STRUCTURAL ASPECTS ONLY. NO OTHER INFORMATION ON THIS SHEET IS THE RESPONSIBILITY OF THE SEAL HOLDER.

Closet Removed



SECOND FLOOR PLAN SCALE: 1/4" = 1'-0"

FRAMING DESIGNED FOR TRUSSED ROOF ONLY WITH ROOF TRUSS BEARING ON EXTERIOR WALLS PER PLAN LAYOUT.

CONTRACTOR TO VERIFY ROOF TRUSS LAYOUT TO MATCH ROOF PLAN. NOTIFY ENGINEER OF RECORD FOR ROOF TRUSS FRAMING MANUFACTURER LAYOUT DIFFERRING FROM STRUCTURAL SHOWN.

NOTE:
SEE SHEETS N1 & N2 FOR GENERAL NOTES.

BEARING WALLS SYMBOL =

CENTURY DESIGNS, INC.
Residential Design & Drafting Services
13420 Reese Blvd. West
Huntersville, North Carolina 28078
phone: 704.948.7078 fax 704.817.4158

SOUTHLAKE COMPANY, LLC

CORNELIUS, NC

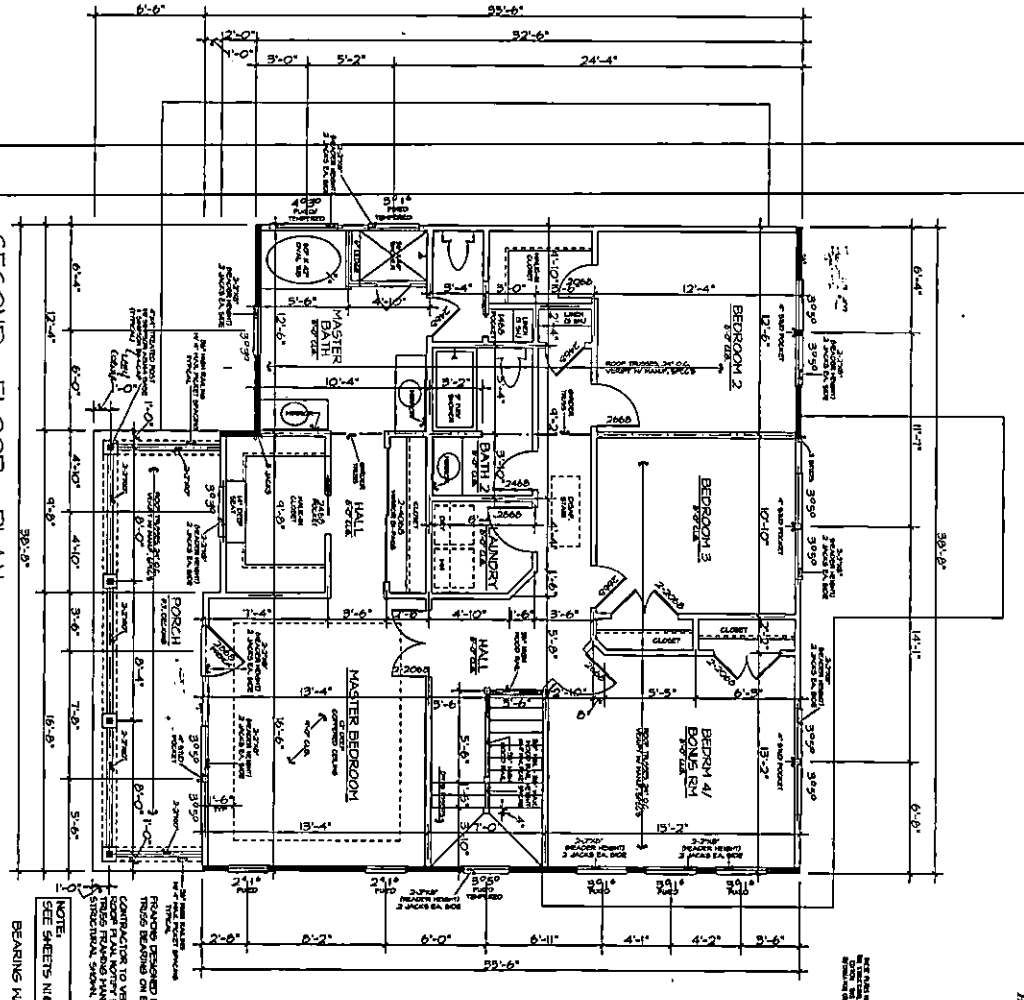
DATE: 6.7.12

REVISIONS: ######

SHEET TITLE
SECOND FLOOR

DRAWN BY: JR

3 / 8



SECOND FLOOR PLAN SCALE: 1/4" = 1'-0"

BEARING WALLS SYMBOL =

NOTE:
SEE SHEETS N1 N2 FOR GENERAL NOTES.

CONTRACTOR TO VERIFY ROOF TRUSS LAYOUT TO MATCH ROOF PLAN. CONTRACTOR TO PROVIDE ROOF TRUSS FRAMING MANUFACTURER LAYOUT DIFFERING FROM STRUCTURAL SHOWN.

FRAMING DESIGNED FOR TRUSSED ROOF ONLY WITH ROOF TRUSS BEARING ON EXTERIOR WALLS PER PLAN LAYOUT.

Mark W. Holden, P.E.
Holden Structural Engineering, PLLC

11/3/16

3 / 8

DATE: 6.7.12
REVISIONS: 00.00.00

SHEET TITLE
SECOND FLOOR

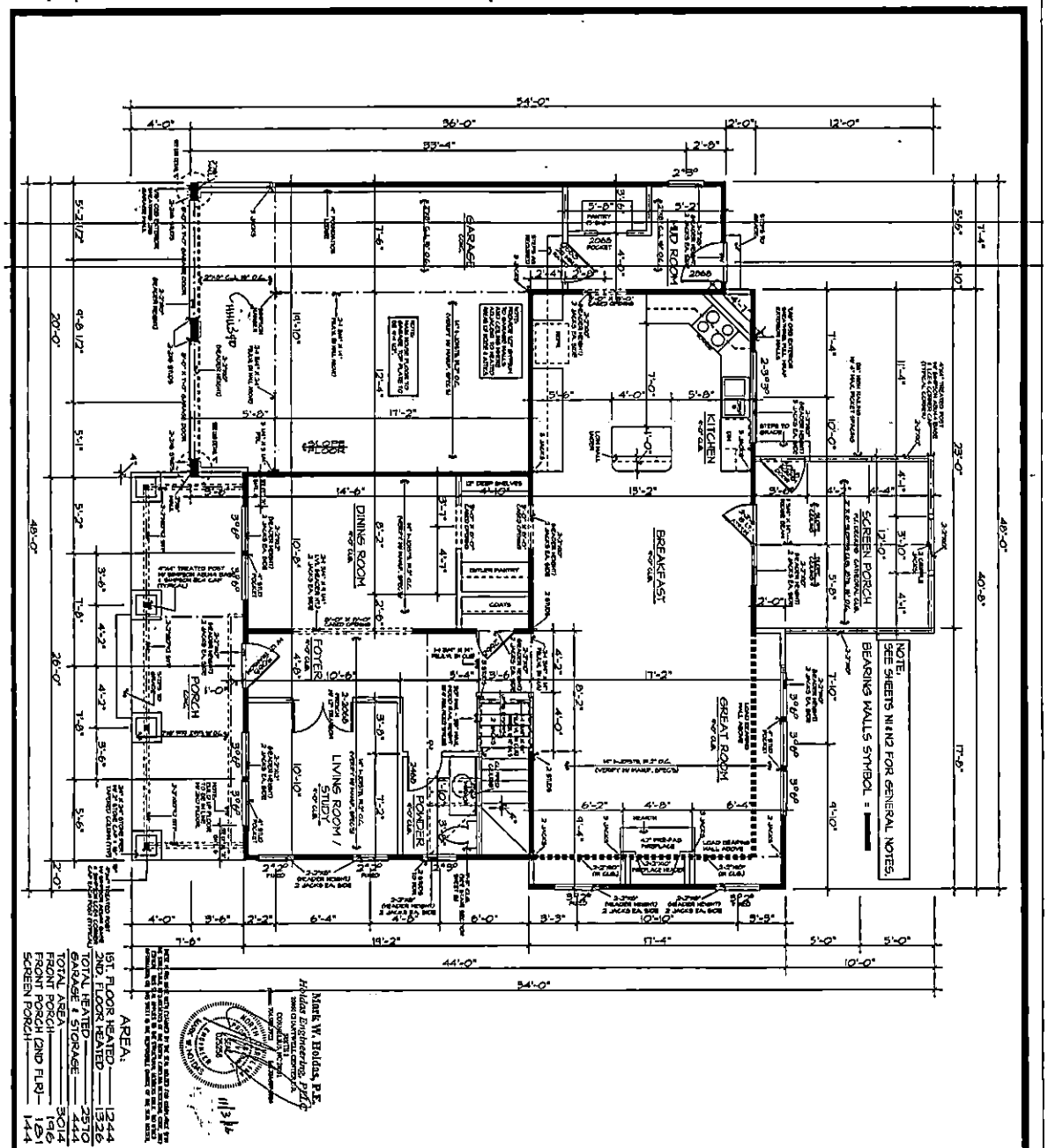
DRAWN BY:
JR

SOUTHLAKE COMPANY, LLC

[redacted]

CORNELIUS, NC

CENTURY DESIGNS, INC.
Residential Design & Drafting Services
13420 Reese Blvd. West
Huntersville, North Carolina 28078
phone: 704.948.7078 fax 704.817.4158



2 / 8

DATE: 6.7.12 — REVISIONS: 00.00.00

SHEET TITLE
FIRST FLOOR

DRAWN BY:
JR

SOUTHLAKE COMPANY, LLC

[redacted]

CORNELIUS, NC

CENTURY DESIGNS, INC.
Residential Design & Drafting Services
13420 Reese Blvd. West
Huntersville, North Carolina 28078
phone: 704.948.7078 fax 704.817.4158