Supervisor/Administrative Professional Checklist

New Septic ☑ **New Well** ☐ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

New Septic Fees Paid:

IP ($250.00) MSB 9/19/14 Initials/Date

CA ($200.00) 200.00 LE Initials/Date

OP ($200.00) ~~50.00~~ 200.00 LE 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 ☑ SAM 6-7-16

OK TO Approve as Noted and generate CA

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. ☑ _____

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

Certified operator contract is on file. ☐ _____

Leaving Bonus Room door off uncased to make it a 4 Bedroom

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-8894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30007094 GWS File #: 9039B Tax Parcel #: 139-034-21

- 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):** 11/25/2019

Type of Installation: Residential - New System Lot Number: 102

Structure Type: HOUSE Size (ft^2): 3000 # Bedrooms: 4 # Occupants: 4

Building Foundation: Crawl Space Water Supply: Municipal

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

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.25	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1440	Total Trench Length (ft):	480
Maximum Trench Depth (in):	22	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Drip Irrigation **System Classification:** Va

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.1	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	1	Trench Spacing (ft):	7	Absorption Area (ft^2):	4800	Total Trench Length (ft):	4800
Maximum Trench Depth (in):	12	Depth of Media (in):	N/A	Distribution Device:	Headworks (Drip Irr.		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, 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 an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Shelby Ledford

Signature: Shelby Ledford

Date Issued: 11/25/2014

Owner/Legal Agent: Donna Borden
Print Name

Signature:

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30007094 GWS File #: 9039B

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.
- 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 waterlines must be located a minimum of 10 ft. from any part of the septic system.
- 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 system must be water tested during the final inspection to verify proper operation and set system pressure.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 15 feet from any foundation drain.

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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Shelby Ledford
Signature: Shelby Ledford
Date Issued: 11/25/2014

Owner/Legal Agent: Donnie Bowden
Print Name
Signature:

S

FEE: 200.00
DATE:6/7/2016

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9039B

PERMIT NUMBER: 30007094

PARCEL NUMBER: 13903225

JOB LOCATION INFORMATION

ADDRESS: 8055 TALCOTT DR

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: Redus Charlotte Housing LLC

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 6/7/2016

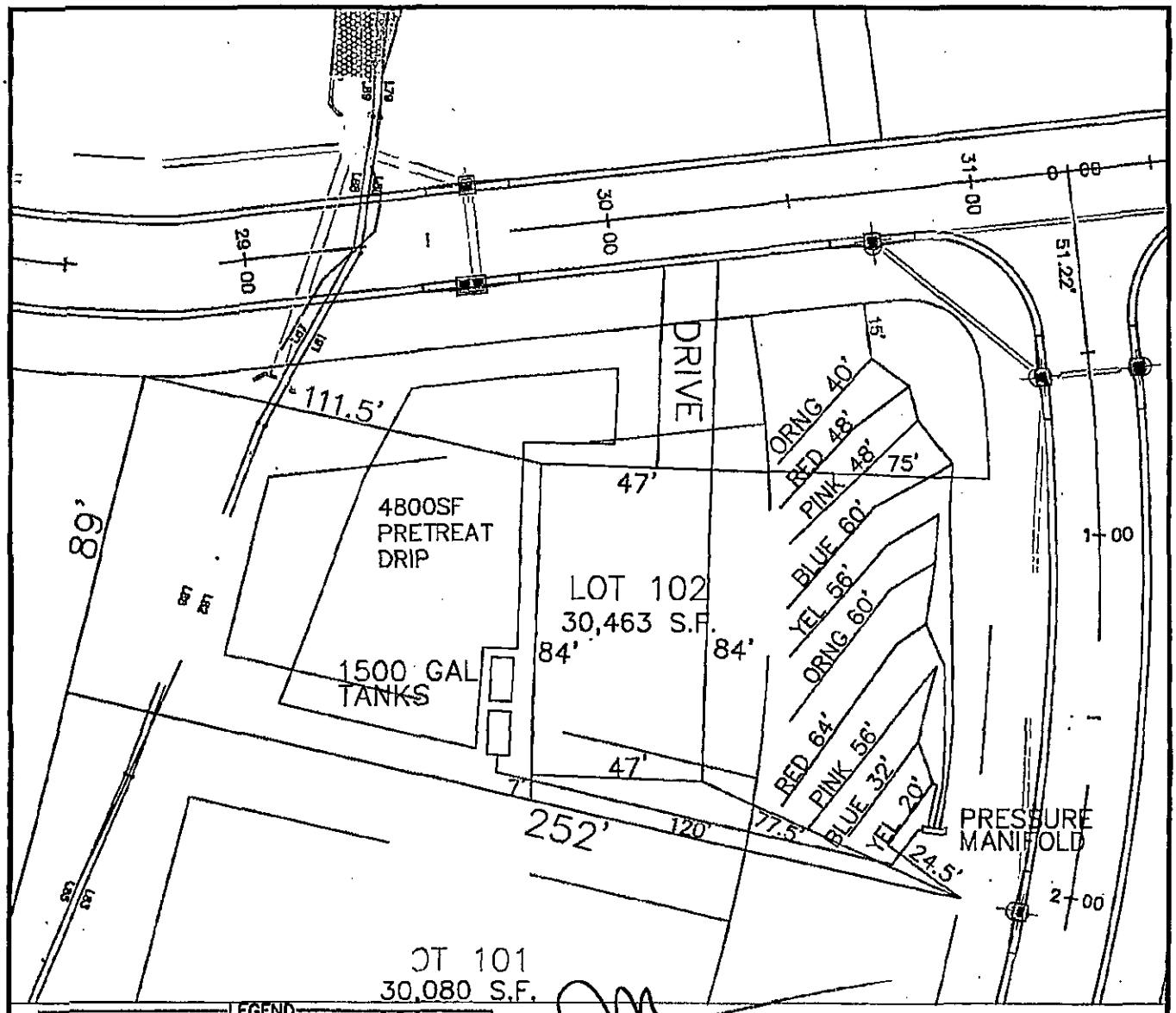
CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30007094, 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, NOT TO EXCEED 60 MONTHS.



LEGEND

LINE #	COLOR	LENGTH
1	YELLOW	20'
2	BLUE	33'
3	PINK	56'
4	RED	66'
5	ORANGE	60'
6	YELLOW	56'
7	BLUE	60'
8	PINK	48'
9	RED	48'
10	ORANGE	40'

SYSTEM INFO: ACCEPTED TRENCH; .25 LTAR
REPAIR INFO: DRIP IRRIGATION; .1 LTAR

X Signature

GRAPHIC SCALE
1" = 40'

40' 0 40' 80'

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

Figure 1. Septic System Layout and House Plan Layout performed by S&FS, PA

SHEET TITLE:
SEPTIC SYSTEM LAYOUT/PRELIM SITE PLAN SKETCH MAP

PROJECT NAME:
LAKEWELL HOMES
STONEBRIDGE LOT 102
MECKLENBURG COUNTY, NORTH CAROLINA
November 2014

Soil & Forestry Services of the Carolinas, PA
P.O. Box 832
Mooresville, NC 28115

SCALE: 1"=40'
PROJECT NO.: 13-1028

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

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Trench Width (ft):	1	Trench Spacing (ft):	7	Absorption Area (ft^2):	4800	Total Trench Length (ft):	4800
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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Shelby Ledford Owner/Legal Agent: _____
Print Name

Signature: Shelby Ledford Signature: _____

Date Issued: 11/25/2014

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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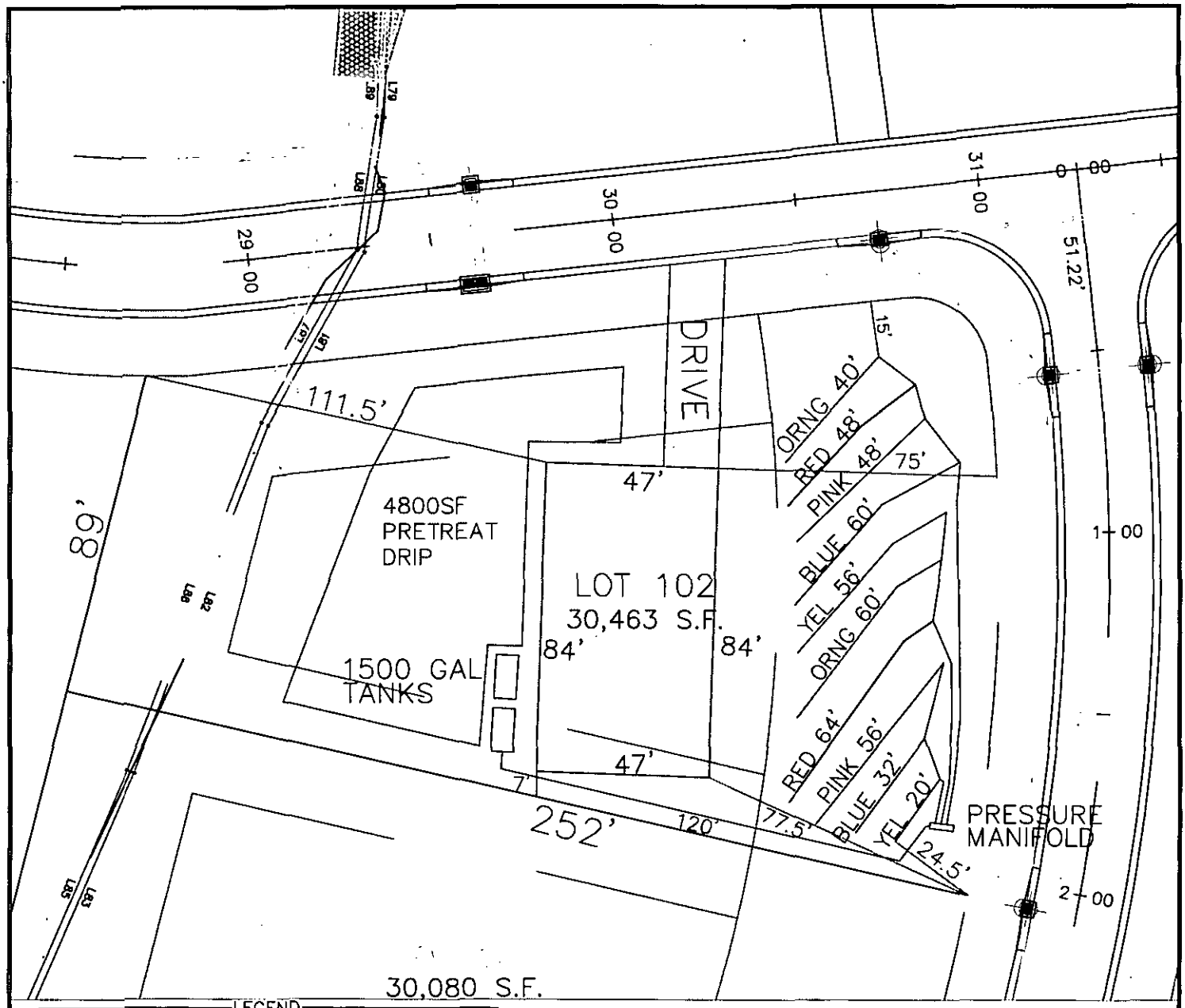
DENR Authorized Agent: Shelby Ledford

Signature: Shelby Ledford

Date Issued: 11/25/2014

Owner/Legal Agent: _____
Print Name

Signature: _____



LEGEND

LINE #	COLOR	LENGTH
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SYSTEM INFO: ACCEPTED TRENCH; .25 LTAR
REPAIR INFO: DRIP IRRIGATION; .1 LTAR

X Signature

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SHEET TITLE:
SEPTIC SYSTEM LAYOUT/PRELIM SITE PLAN SKETCH MAP

PROJECT NAME:
LIVEWELL HOMES
STONEBRIDGE LOT 102
MECKLENBURG COUNTY, NORTH CAROLINA
November 2014

Soil & Forestry Services of the Carolinas, PA
P.O. Box 832
Mooresville, NC 28115

SCALE 1"=

PROJECT NO. 13-1025

GWS Septic System Design Review

GWS File #: 9035B

	Approved	Disapproved
Design Review: 11/18	☑	☐
Field Review: Shelby Ledford	☑	☐

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

SOIL & FORESTRY SERVICES OF THE CAROLINAS, PA

A design for a 4 Bedroom Accepted Septic System using p. manifold distribution for Lot 102 of Stonebridge Subdivision 8055 Talcott Drive, Mint Hill

Contents: **Page**

Information for the Installer---------- 1

Design Information

- Design Specifications---------- 2-3
- Layout Specifications---------- 4
- System Flow---------- 5

Site Plan---------- 6

Septic Tank Diagram---------- 7

Pump Tank Diagram---------- 8

Control Panel Specifications---------- 9-12

Pump Specifications---------- 13-14

Calculations---------- 15

Valve Box Specifications---------- 16

November 2014

Design By: W. Overby

GVR Onsite System Design Review

GVR [illegible]	Approved	Disapproved
Design Review	☐	☐
[illegible]	☐	☐

[illegible] sections above

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.
- Tanks shall be water tested prior to installation.
- 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
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- **System specified as accepted type using p. manifold distribution**
- **Repair specified as subsurface drip irrigation**
- **System trench depth specified at 22"**
- **System trenches installed on 9' minimum; 3' wide trenches**
- **See Figure 1. Septic System Layout and House Plan**

ACCEPTED SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	LiveWell Homes
Contact:	Brad Cardwell
Phone:	704 787-0517
County:	Mecklenburg
Location:	Stonebridge Lot 102

Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	19.70 gpm

Design Specifications

Drainfield Size:	484 lf
Loading Rate:	0.25 gpd/ft.^{2}
Depth of Gravel in Trench:	n/a
Gravel Size:	n/a
Trench Depth:	22 in
Trench Width:	36 in.
Septic Tank Size:	1500 gal.
Pump Tank Size:	1500 gal.
Estimated Supply Line Length:	128 lf
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	22.27 gal
Dosing Volume:	221.24 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:	2 ft.
Friction Head:	1.28 ft
Elevation Head:	13.00 ft
Total Dynamic Head:	16.47 ft
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 @ pressure manifold
Check Valves:	In Tank
Anti-Siphon Hole:	n/a
Recommended Pump:	Myers Model S40HT or County Approved Effluent Rated Pump Capable of Delivering 17 ft.of Head at 20 gpm Total Flow

Stonebridge Lot 102
P. Manifold Design

DESIGN FLOW:	480	gpd
SOIL APPLICATION RATE:	0.25 gpd/ft.^{2}	
TOTAL AREA TRENCH BOTTOM:	1452	sf
TOTAL LATERAL LENGTH:	484	lf
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	480	lf
SUPPLY LINE LENGTH:	128	lf
TOTAL DYNAMIC HEAD:	16.47	gpm
DOSING VOLUME:	221.24	gal
PUMP TANK DRAW DOWN*:	7.6	in
SEPTIC TANK SIZE:	1500 gal.	
PUMP TANK SIZE:	1500 gal.	
RECOMMENDED PUMP:	Myers Model S40HT or County Approved Effluent Rated Pump Capable of Delivering 17 ft.of Head at 20 gpm Total Flow	

**Pump tank draw down based on a volume basis of 29 gallons per inch. Draw down may vary among pump tank manufacturers.*

Stonebridge Lot 102

Layout for a 4 bedroom home — Nov 2014

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM		7.2			100.0		
INSTR. 1			107.2				
			SYSTEM				
1	Yellow			2.10	105.1	20	20
2	Blue			3.00	104.2	33	32
3	Pink			3.60	103.6	56	56
4	Red			4.20	103.0	66	64
5	Orange			4.70	102.5	60	60
6	Yellow			5.60	101.6	56	56
7	Blue			6.20	101.0	60	60
8	Pink			6.60	100.6	48	48
9	Red			7.00	100.2	48	48
10	Orange			7.20	100.0	40	40

REPAIR

SUBSURFACE DRIP IRRIGATION

	LINE LENGTH	LTAR GPD/FT	SYSTEM TYPE	REDUCTION TYPE	DISTRIBUTION
SYSTEM	484	0.250	MOD	25%	P..MANIFOLD
REPAIR	4800	0.100	DRIP	N/A	DRIP

Notes:

** TBM located at staked front right house crner

**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

1	Yellow		2.10	105	70	30
2	Blue		2.00	100	40	60
3	Pink		1.90	105.6	50	50
4	Red		1.80	100.0	36	64
5	Orange		1.70	105.8	60	30
6	Violet		1.60	106.3	56	36
7	Blue		1.50	101.0	70	30
8	Pink		1.80	100.6	48	48
9	Red		1.90	102.2	46	46
10	Orange		2.00	101.0	40	40

Stonebridge Lot 102

SYSTEM FLOW

DESIGN SPECIFICATIONS

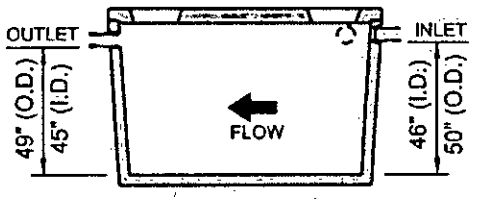
Line #	Color	Elev	Length	Hole Size	Flow/Tap	Line gpd	Line Trench Area	Flow/Line	Line LTAR
1-4	Yellow	105.1	172	SCH 40 1/2	7.11	173.24	516	0.041	0.336
5-7	Blue	102.5	176	SCH 40 1/2	7.11	173.24	528	0.040	0.328
8-10	Pink	100.6	136	SCH 80 1/2	5.48	133.52	408	0.040	0.327
	total	feet =	484	gal/min =	19.7				

Des. Flow	480
Pump Run to Dose 480gpd=	24.37
soil LTAR	0.25
Innov LTAR	0.33

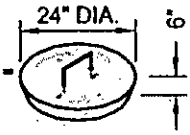
© 2008 Details Provided by APPIAN Consulting Engineers www.appianengineers.com

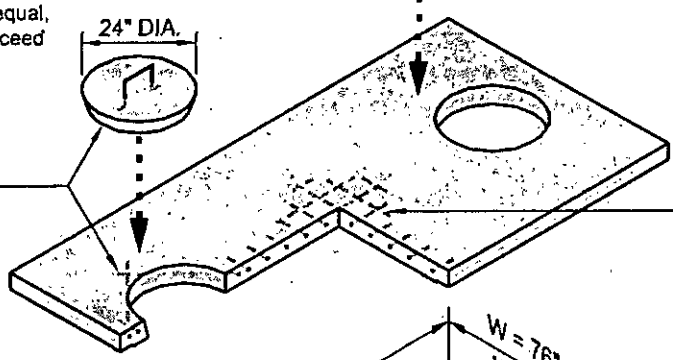
GENERAL NOTES:

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 EZ set lid cast in place. Supplied by Dellinger Precast. 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. 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 2,636 ± lbs.
   Base Section 7,453 ± lbs.
10. I.D. = Inside dimension
    O.D. = Outside dimension
    L = Length
    W = Width
    H = Height

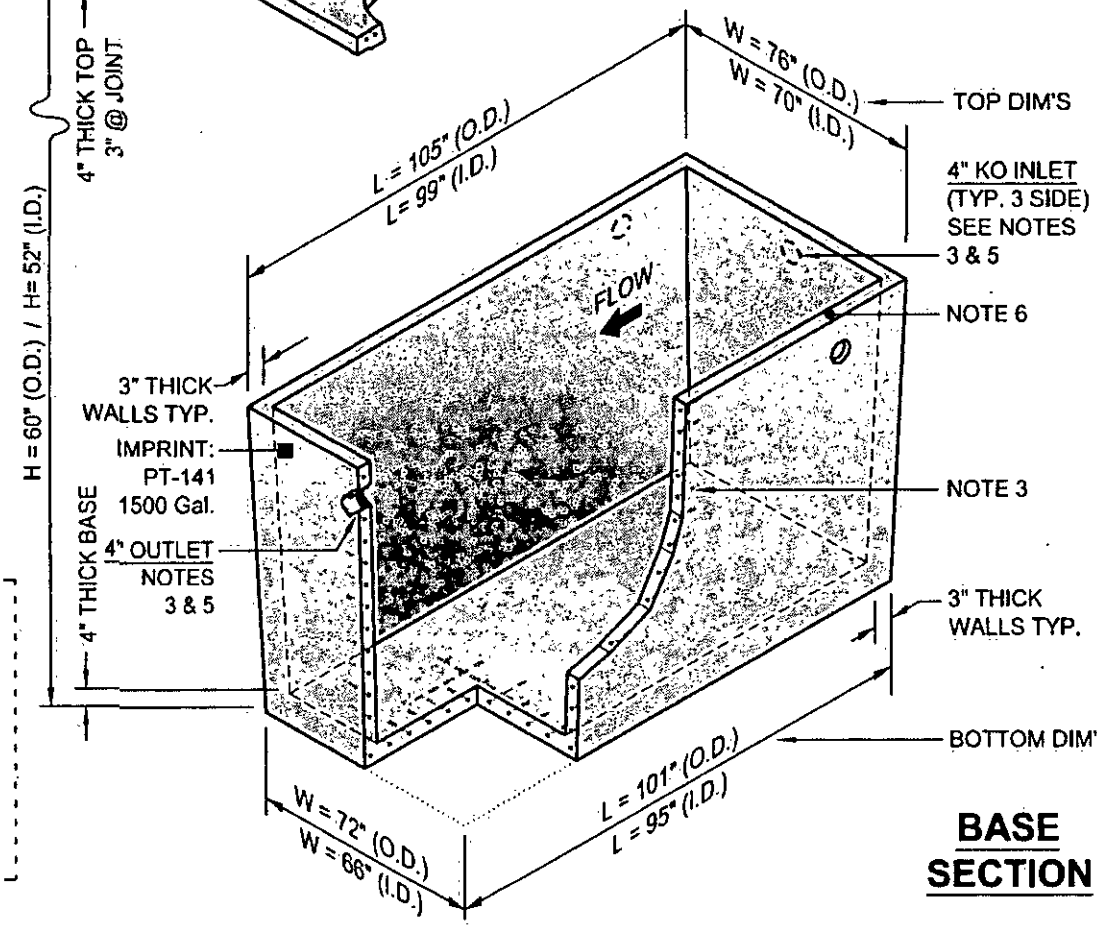


ELEVATION



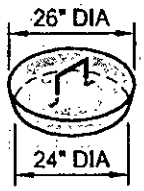


TOP SLAB



BASE SECTION

OPTIONAL ROUND LID



1,500 Gallon (Top Slab) PUMP TANK

Scale: Not To Scale
Revision Date: February 2008
Detail # PT-1,500-TS

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

MODEL 112 Control Panel

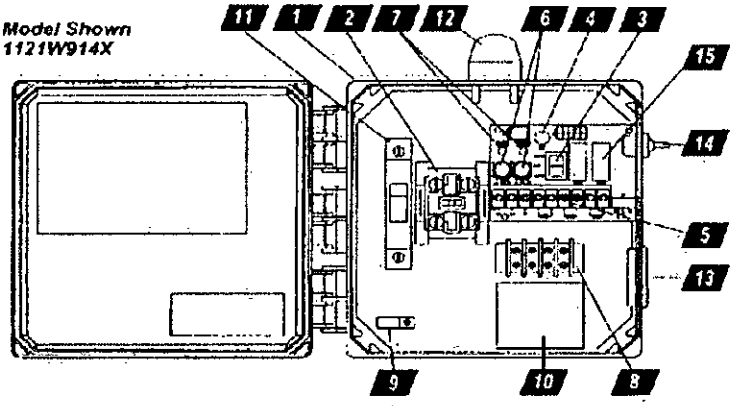
Single phase, simplex motor contactor control.

The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single-phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.



Indoor *Indoor/outdoor*

Model Shown
1121W914X



1. **Enclosure** measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).

   * Options selected may increase enclosure size and change component layout.

2. **Magnetic Motor Contactor** controls pump by switching hot electrical lines.
3. **HOA Switch** for manual pump control (mounted on circuit board).
4. **Green Pump Run Indicator Light** (mounted on circuit board).
5. **Float Switch Terminal Block** (mounted on circuit board).
6. **Alarm and Control Fuses** (mounted on circuit board).
7. **Alarm and Control Power Indicators** (mounted on circuit board).
8. **Pump Input Power and Pump Connection Terminal Block**
9. **Ground Lug**
10. **Terminal Block Installation Label**
11. **Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.

STANDARD ALARM PACKAGE (other options available)

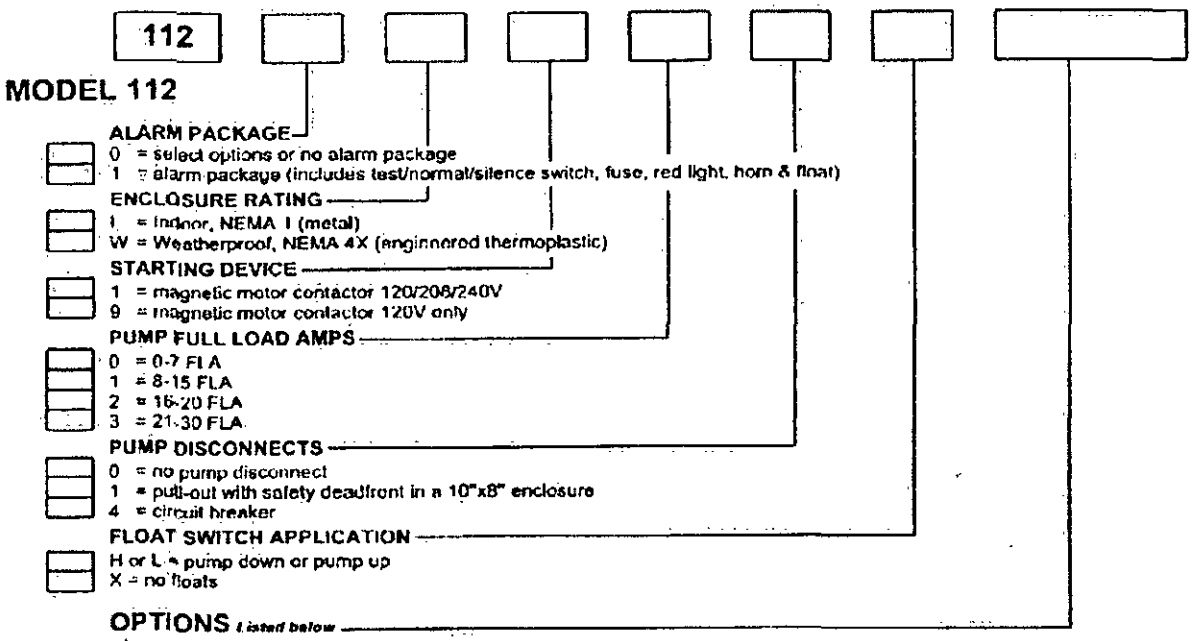
12. **Red Alarm Beacon** provides 360° visual check of alarm condition. **Note:** NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
13. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating). **Note:** NEMA 1 style utilizes an internally mounted buzzer (83 to 85 decibel) in lieu of horn.
14. **Exterior Horn Test/Normal/Silence Switch** allows alarm horn to be silenced and testing of horn and light to ensure proper operation of alarm system.
15. **Horn Silence Relay** automatically resets alarm after alarm condition has been resolved (mounted on circuit board).

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty

c UL us
LISTED

SJE Rhombus CONTROLS
SJ ELECTRO SYSTEMS, INC.
PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE 1-218-847-1317
1-218-847-4617 Fax
email: sje@sjerhombus.com
www.sjerhombus.com



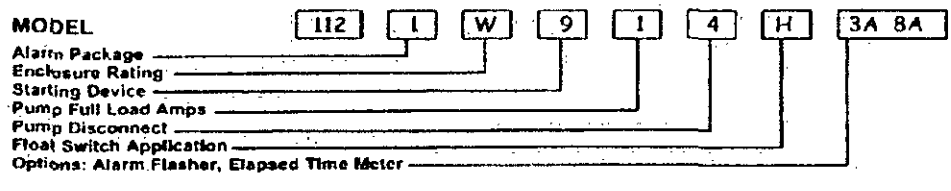
If additional features are required, call the factory for a quote on either a Pro-Line or Engineered Custom control panel system.

	CODE	DESCRIPTION
	1A	Red beacon only / no audio *must select 1E if floats included*
	1C	Horn only / no visual *must select 1E if floats included*
	1E	Alarm float
	3A	Alarm flasher
★	4A	Low level cutout *select option 4D if floats included*
★	4B	Red low-level indicator & alarm *must select 4A also*
	4D	Low-level float
	6A	Auxiliary alarm contact, form C type
★	8A	Elapsed time meter
★	8C	Event (cycle) counter
	10E	Lockable latch - NEMA 4X
	10E	Lockable latch - NEMA 1
★	10F	Lightning arrester
★	10K	Anti-condensation heater

	CODE	DESCRIPTION
	11C	NEMA 1 alarm panel *must select option 6A*
	11D	NEMA 4X alarm panel *must select option 6A*
	15A	Control / alarm circuit breaker *Does not include the circuit board as in standard.*
	16A	10' cord in lieu of 20'
	16B	15' cord in lieu of 20'
	16C	30' cord in lieu of 20'
	16D	40' cord in lieu of 20'
	17A	SJE SignalMaster® / mounting strap ●
	17B	SJE SignalMaster® / externally weighted ●
	17C	Sensor Float® / internally weighted ▲
	17D	Sensor Float® / externally weighted ▲
	17E	Sensor Float® Mini / pipe clamp ▲
	17F	Sensor Float® Mini / externally weighted ▲
	19X	Door mounted pump run indicator
	21A	Pumpmaster® in lieu of on/off switches ●
	21B	PumpMaster® Plus in lieu of on/off switches ●
	21C	Super Single® in lieu of on/off switches ▲
	21D	Double Float™ in lieu of on/off switches ▲

● Mechanically-activated ▲ Mercury-activated

SAMPLE



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SENSOR FLOAT® control switch

Mercury-activated, narrow-angle float switch designed to activate pump control panels and alarms.



This narrow-angle sensing device is used to accurately monitor liquid levels in sewage and non-potable water applications. The Sensor Float® control switch is not sensitive to rotation and is suitable for use with intrinsically safe circuits. Contact SJE-Rhombus regarding specific intrinsically safe applications.

Normally Open Model (high level)
The control switch turns on (closes) when the float tips slightly above horizontal signaling a high level, and turns off (opens) when the float drops slightly below horizontal.

Normally Closed Model (low level)
The control switch turns on (closes) when the float drops slightly below horizontal signaling a low level, and turns off (opens) when the float tips slightly above horizontal.

FEATURES

- Suitable for use with intrinsically safe circuits.
- Not sensitive to rotation.
- Control differential of .5 inches (1 cm) above or below horizontal.
- UL Listed for use in non-potable water and sewage.
- CSA Certified.
- Three-year limited warranty.

OPTIONS

This switch is available:

- for normally open (high level) applications or normally closed (low level) applications.
- in standard cable lengths of 10, 15, 20, or 30 feet and 3, 5, 6, or 10 meters.
- with three mounting options that allow for flexibility in installation:

  Mounting Clamp: for applications where the switch can be attached to a discharge pipe or similar mounting device.

  Internally Weighted: for applications where the switch can be suspended from above.

  Externally Weighted: for applications where the switch can be suspended from above.

SPECIFICATIONS

CABLE: flexible 18 gauge, 2 conductor (UL,CSA) SJOW, water-resistant (CPE) jacket

FLOAT: 3.38 inch diameter x 4.55 inch long (8.59 cm x 11.56 cm), high-impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)

MAXIMUM WATER DEPTH: 30 feet (9 meters), 13 psi

MERCURY TILT SWITCH: single pole, single throw, mercury-to-mercury contacts, hermetically sealed in a steel capsule and epoxy sealed in the float housing

ELECTRICAL: 5 amp, 120/230 VAC, 50/60 Hz

SJE-Rhombus
SJ ELECTRO SYSTEMS, INC.
PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE | 1-218-847-1317
1-218-847-4617 Fax
email: sje@sjerhombus.com
www.sjerhombus.com

Sensor Float® control switch installation instructions

⚠WARNING ELECTRICAL SHOCK HAZARD
Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.

⚠WARNING EXPLOSION OR FIRE HAZARD
Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.

Failure to follow these precautions could result in serious injury or death. Replace product immediately if switch cable becomes damaged or severed. Keep these instructions with warranty after installation. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable.

MOUNTING THE SWITCH

1. Place the cord into the clamp as shown in Figure B.
2. Locate clamp at desired activation level and secure the clamp to the discharge pipe as shown in Figures A and B. **Note:** Do not install cord under hose clamp.
3. Tighten the hose clamp using a screwdriver. Over tightening may result in damage to the plastic clamp. Make sure the float cable is not allowed to touch the excess hose clamp band during operation.
4. Bring cable leads back to control device and wire according to Figure C.
5. Check installation. Allow system to cycle to insure proper operation.

Note: All hose clamp components are made of 18-8 stainless steel material. See your SJE-Rhombus supplier for replacements.

Figure A

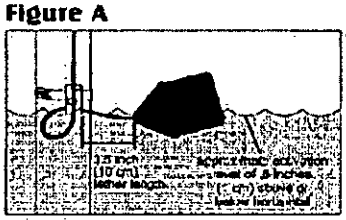
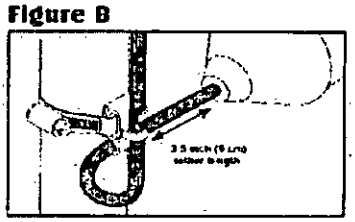


Figure B



INTERNAL WEIGHT

1. Determine desired activation level.
2. Suspend switch 7 inches (18 cm) below desired activation level as shown in Figure D. Switch remains partially submerged during the "on" tipping action. Switch can be totally submerged and still continue to operate properly.
3. Wire cable leads directly into control device as shown in Figure C.
4. Check installation. Allow system to cycle to insure proper operation.

Figure C - Wiring Diagram

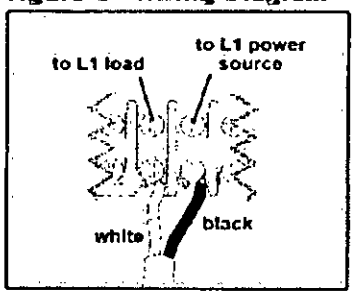
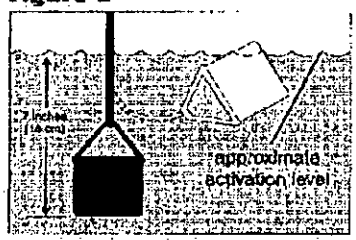


Figure D



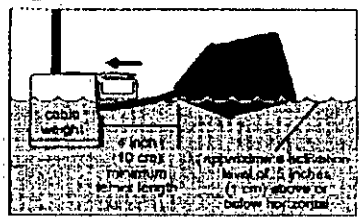
CABLE WEIGHT

1. Determine desired activation level.
2. Suspend switch and cable weight at desired activation level as shown in Figure E.
3. Wire cable leads directly into control device as shown in Figure C.
4. Check installation. Allow system to cycle to insure proper operation.

Cable weight is attached to switch cable at the factory. To adjust:

1. Release clip.
2. Adjust cable weight to desired position.
3. Lay switch cable in weight channel.
4. Align clip with weight channel and slide towards switch cable as shown in Figure E.
5. Snap clip snugly up to cable, moving clip to tightest possible position.

Figure E

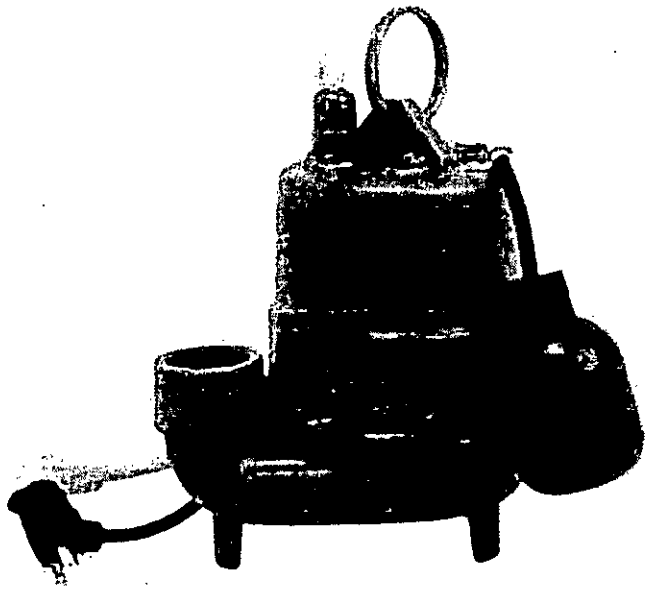


CONTROLS
SJE Rhombus
SJ ELECTRO SYSTEMS, INC.
22650 County Highway 6 ■ P.O. Box 1708 ■ Detroit Lakes, Minnesota 56502 USA
1-888-DIAL-SJE (1-888-342-5753) ■ Phone: 218-847-1317 ■ Fax: 218-847-4617
E-mail: sje@sjerhombus.com

Float Instr. P/N 10C9C40A
Cal. Plate P/N 10C88C8A
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Printed in USA 03/00

MYERS® S40HT SERIES

The Myers S40HT series effluent pump is a small, rugged, submersible, cast iron pump with a non-clog vortex impeller and solids handling capability to 3/4". Unit has 1/3 HP, 115 Volt, single-phase motor and 1-1/2" NPT vertical discharge. Available with high temperature float switch.



APPLICATIONS

Boiler blow down pits, condensate pits, hot water sumps

SPECIFICATIONS

Capacities – 45 GPM (170 LPM)
Shut-off Head – 21' (6.4 m)
Operation – S40HT-11P
On: 13.5" (343 mm); Off: 4.5" (114 mm)
Operation – Manual and automatic
Solids Handling – 3/4" (19 mm)
Liquids Handling –
High temperature liquids
Intermittent Liquid Temperature –
S40HT-11P: up to 194°F (90°C)
S40HT-11: up to 200°F (93°C)
Motor/Electrical Data – 1/3 HP, 12.0A, thermal overload protection, oil-filled, 115V, 1Ø, 60Hz, 1550 RPM
Acceptable pH Range – 6-9
Mechanical Seal – Type 6A or equal, Buna-N elastomers, carbon and ceramic sealing faces, stainless steel metal parts
Bearings – Lower ball, upper sleeve type, oil lubricated
Housing/Volute Case/Impeller – Cast iron
Exterior Hardware – Stainless steel
Power Cord – 20', 16/3, SJOOW-A/SJOW with integrally grounded three-prong plug
Discharge, NPT – 1-1/2" (38.1 mm)
Minimum Sump Diameter – Simplex: 18" (45.7 cm); Duplex: 30" (76.2 cm)

FEATURES

Cast Iron Tough
All cast-iron housing, volute case, and impeller resists the most extreme corrosive environments

Rugged and Cool
Rugged-built, oil-filled motor for continuous bearing lubrication and maximum heat dissipation

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

Impeller
Non-clog vortex style, ejector vanes for seal protection

Stainless Steel Hardware
Allows easy disassembly after extended service

Oil and Water Resistant Cord Design
Prevents oil loss from – and moisture protection for – motor

Bearings and Mechanical Seal
Permanently lubricated for long life

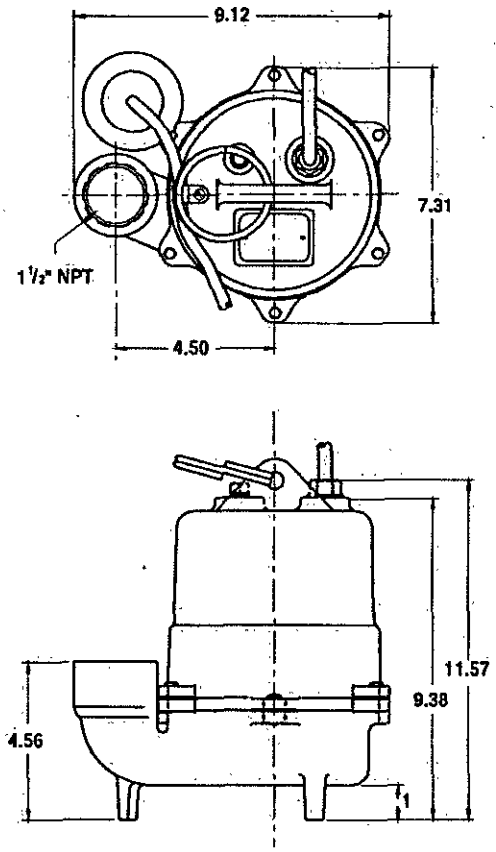
Easy Service
Heavy-duty lift-out ring

ORDERING INFORMATION

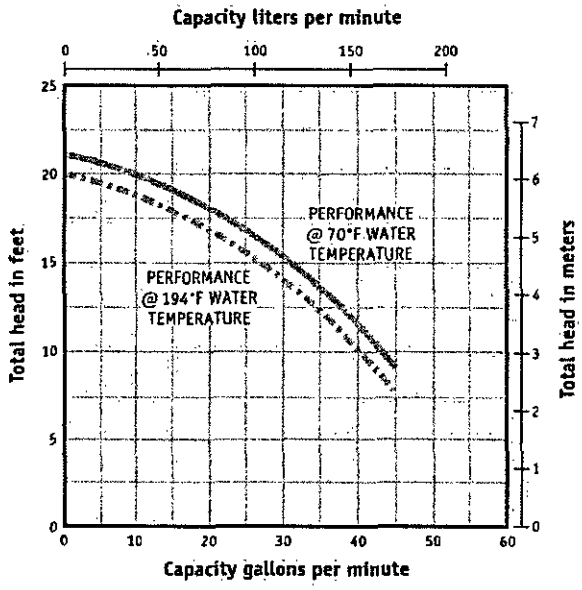
Catalog Number	HP	Volts	Phase/ Cycles	Amps	Discharge Size	Switch Type	Cord Length	Approx. Wt. Lbs.
S40HT-11	1/3	115	1/60	12	1-1/2"	Manual	20'	36
S40HT-11P	1/3	115	1/60	12	1-1/2"	Tethered	20'	36

MYERS® S40HT SERIES

DIMENSIONS



PUMP PERFORMANCE



PENTAIR

USA
293 WRIGHT STREET, DELAVAN, WI 53115 WWW.FEMYERS.COM
PH: 888-987-8677 ORDERS FAX: 800-426-9446

CANADA
490 PINEBUSH ROAD, UNIT 4, CAMBRIDGE, ONTARIO N1T 0A5
PH: 800-363-7867 ORDERS FAX: 888-606-5484

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

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CALCULATIONS

Location	Stonebridge	
Project Number	13-1025	
Lot No:	102	
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.25	$^{gal}/_{ft^2\,day}$
Accepted? (YES OR NO)	yes	
Supply Line Length	128	ft.
Supply Line Volume	22.272	gal.
Required Feet of Line	480	ft.
Amount of Line from Layout	484	ft.
Gallons per Minute	19.70	$^{gal}/_{min}$
Required Septic Tank Capacity	1500	gal.
Minimum Standard Tank Size	1500	gal.
Lateral Line Volume	316.052	gal.
Dosing Volume	221.24	gal.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

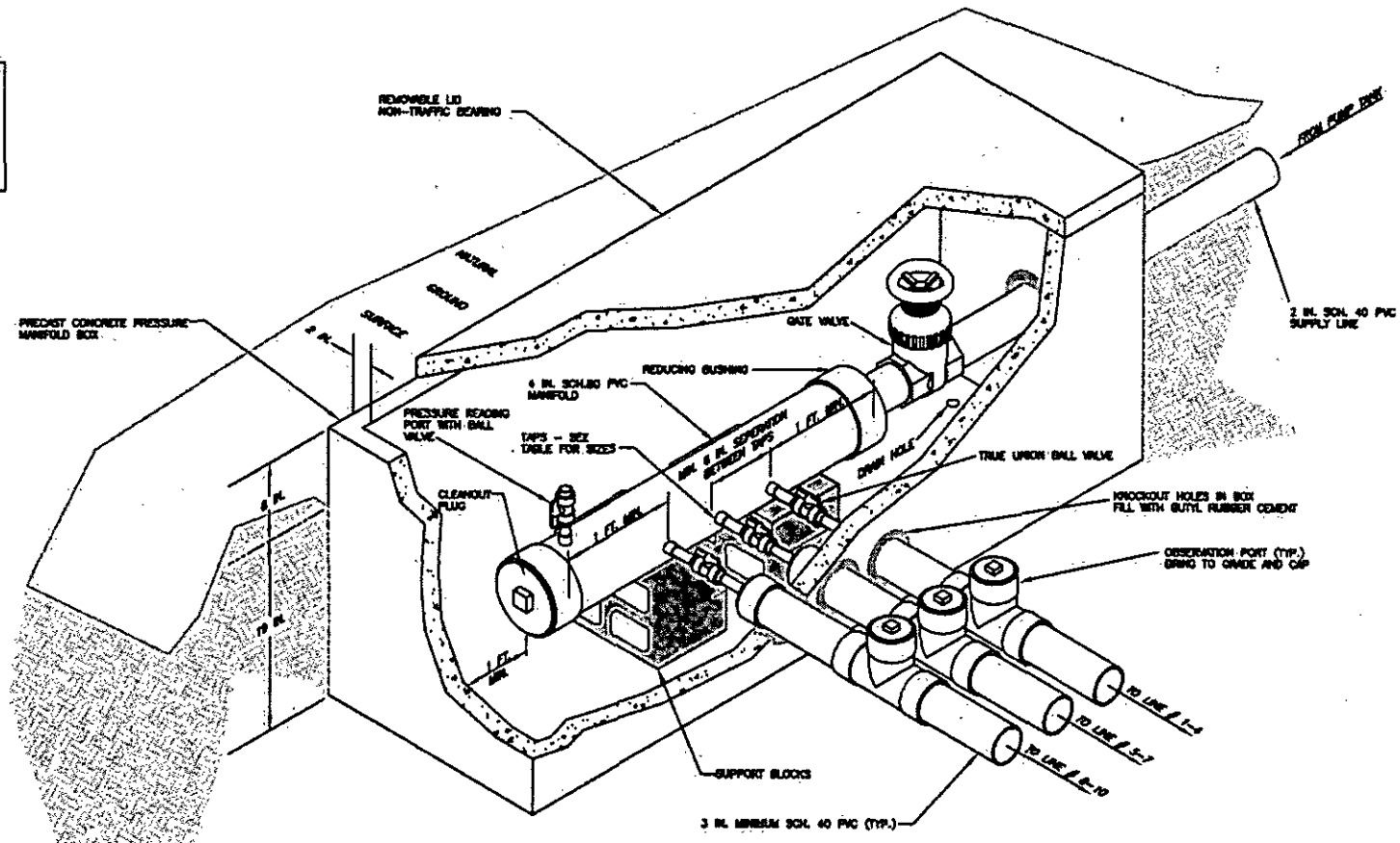
GPM	*f*
20	0.84
22	1.01
25	1.27
26	1.37
30	1.78
	1.76
35	2.37
37	2.63
40	3.03
42.4	3.39
45	3.77
46.51	4.01
50	4.58
57.11	5.89
60	6.42

Tank Draw Down	7.6	in.
		Generic Draw Down of 29 gal.per in.
Pump Run Time	11.23	minutes
Elevation Head	13	ft.
Pressure Head	2	ft.
Friction Factor	1	ft./100 ft. *(From the interpolater.)*
Friction Head	1.28	ft.
Friction Loss (+15%)	1.47	
Total Dynamic Head (+15%)	16.47	ft.

PRESSURE MANIFOLD DETAILS
FOR
LOT 102, STONEBRIDGE

TAP SIZES

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



Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 9039B WASPS App #: 7084

Primary ES assigned to project: Shelby Ledford

Secondary ES assigned to project: _____

Project Type: New System ☐ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law				
	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 6			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.25 initial 0.1 Drip repair	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown -- Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☐	N/A ☑
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: JAM _____ Date performed: _____

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

Sheet: 1 of 2
Property ID: 139-034-21
Lot #: 102
File #: 9039B
AppID: 7094

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Redus Charlotte Housing
Address: 3563 Phillips Hwy, Jacksonville, FL 32207
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Location of Site: 8055 Talcott Dr, Mint Hill, NC 28227
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Paul Carty w/ Wells Fargo
Date Evaluated: 9/26/2014
Property Size: 0.702 ac
Property Recorded: Unknown

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 8%	0 - 7	wfsbk CL	FR SEXP	2 chroma @ 38"	35	US	NA		PS IV 0.225	20"
		7 - 24	mmsbk C	FI SEXP							
		24 - 35	wmabk C	FI SEXP							
		35 - 60	mass C	VFI EXP							
Pit #2	LS 4%	0 - 16	wfsbk SCL	FR SEXP	2 chroma @ 35"	58	NA	NA		PS IV 0.25	22"
		16 - 32	wmsbk C	FI SEXP							
		32 - 58	mmsbk C	FI SEXP							
Pit #3	LS 7%	0 - 7	gr SL	FR SEXP	2 chroma @ 54"	65	NA	NA		PS IV 0.275	36"
		7 - 12	wfsbk SCL	FR SEXP							
		12 - 48	wmabk C	FI SEXP							
		48 - 65	wmabk CL	FR SEXP							
Pit #4	LS 7%	0 - 12	gr SL	FR SEXP	2 chroma @ 40"	70	NA	NA		PS IV 0.25	25"
		12 - 22	wfsbk SCL	FR SEXP							
		22 - 35	mmsbk SC	FI SEXP							
		35 - 70	mmabk C	FI SEXP							
Pit #5	LS 10%	0 - 3	gr SL	FR SEXP	2 chroma @ 28"	36	US	NA		PS IV 0.225	12" (Need Cover)
		3 - 36	wmabk C	FI SEXP							
		36 - 64	mass CL	VFI EXP							
Pit #6	LS 10%	0 - 10	gr SCL	FR SEXP	2 chroma @ 42"	42	US	NA		PS IV 0.225	26"
		10 - 23	wfabk SCL	FR SEXP							
		23 - 42	wfabk C	FI SEXP							
		42 - 65	mass CL	VFI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	TILE	NI
Site LTAR (gpd/sq ft)	**0.25***	0.225 (At-grade) 0.1 (Drip)

*** Only valid for area around pits 2, 3, & 4.**

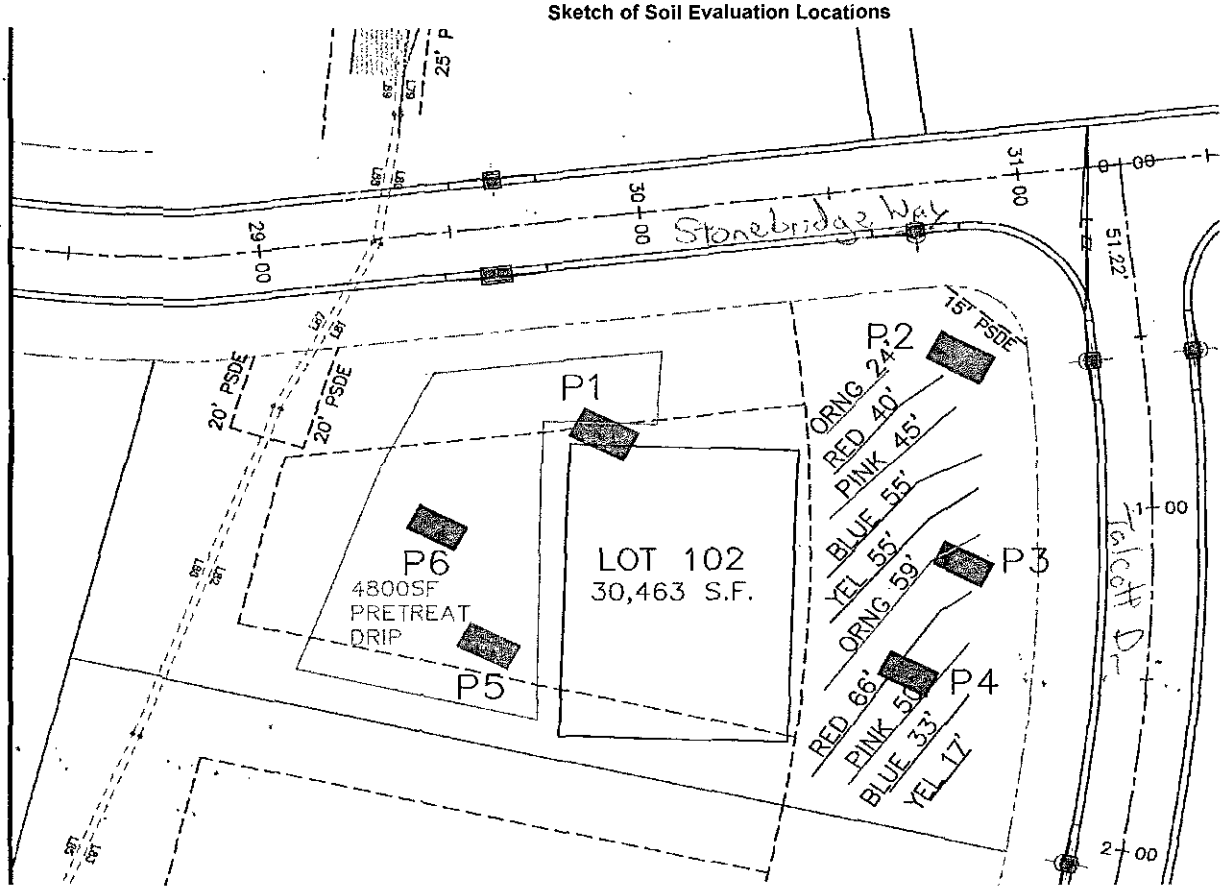
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, REHSI, LSS
Others Present: Wendell Overby, LSS
Site Classification (.1948): PS
Site Evaluation By: Shelby Ledford Shelby Ledford REHSI
Others Present:

COMMENTS:

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		CL-Clay Loam		Sap-Saprolite
FP-Flood Plain		SCL-Sandy Clay Loam		**Structure Prefixes**
D-Drainage Way		SiL-Silt Loam		w-weak
				m-moderate
	IV	SC-Sandy Clay	0.4 - 0.1	s-strong
		SiC-Silty Clay		f-fine
		C-Clay		m-medium
				c-coarse

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



MECKLENBURG COUNTY
HEALTH DEPARTMENT

9039B

28 JAN '16 PM 3:16

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: 139-03-421

STREET ADDRESS: 8055 Talcott Drive

CITY: Mint Hill

STATE: NC ZIP: 28227

SUBDIVISION NAME: Stonebridge

LOT #: 102 LOT SIZE (acres): 0.70

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: 3,200

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 ☐ ANY TYPE ☑ CONVENTIONAL ☑ ACCEPTED ☑ INNOVATIVE ☑ ALTERNATIVE ☐ OTHER _____

8A. RANK: 1 2 3 4 ____

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? 4/28/16 ☐ N/A

12. PROPERTY OWNER:

NAME: Livewell Homes, LLC

ADDRESS: 501 Springcrest Drive

CITY: Fort Mill

STATE: SC ZIP: 29715

WORK PHONE: _____

MOBILE PHONE: (704) 777-8266

FAX: _____

E-MAIL: dbowden@livewellhomes.net

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME: _____

ADDRESS: _____

CITY: _____

STATE: _____ ZIP: _____

WORK PHONE: _____

MOBILE PHONE: _____

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.

DB (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.

_____ 1-28-16

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

9039B

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

App #19094

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

Public Water line in front of lot

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 139-034-21
STREET ADDRESS: 8055 Talcott Drive
CITY: Mint Hill
STATE: NC **ZIP:** 28227
SUBDIVISION NAME: Stonebridge
LOT #: 102 **LOT SIZE (acres):**
TOWNSHIP:
☐ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☑ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. **BUILDING INFORMATION:**

BUILDING TYPE:
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☑ HOUSE ☐ OTHER _____
HEATED SQUARE FOOTAGE: 3,000 SF
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: Single family typical
FOUNDATION TYPE:
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ☐ BASMENT 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 _____
CMU As-Built plan attached

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 ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☑ OTHER No preference

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?** Sept/Oct 2014 ☐ N/A

12. **PROPERTY OWNER:**

NAME: Pedus Charlotte Housing LLC
ADDRESS: 3563 Phillips Highway - MAC
CITY: Z 3058-060 CLA-ORE
STATE: FL ZIP: 32207
HOME PHONE: —
WORK PHONE: 704-715-5282
MOBILE PHONE: —
FAX: —

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: Paul Canty w/ Wells Fargo
ADDRESS: 301 South College Street
CITY: Charlotte
STATE: NC ZIP: 28202
HOME PHONE: —
WORK PHONE: 704-715-5282
MOBILE PHONE: —
FAX: —

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

Revised on: 7/1/08

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.

N/A (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.

Paul Casey
Property Owner's or Owner's Legal Representative Signature

09/19/14
Date

OFFICE USE ONLY

☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☑ UN-SCALED SITE PLAN SUBMITTED

Record plat map

SEPTIC APPLICATION FEES RECEIVED: $ 250 DATE FEE RECEIVED: 9/19/14

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

APPLICATION PROCESSED BY: lws

GWS FILE NUMBER ASSIGNED: 90398

APPLICATION ID NUMBER ASSIGNED: 7094

COMMENTS:

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

Revised on: 7/1/08

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	01/29/16	**Amount:**	250.00
Receipt #:	97734	**Tendered:**	250.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: X44709
Contractor: LIVE WELL HOMES LLC
Attn:
Address: 501 SPRINGCREST DR
Address:
City/State/Zip: FORT MILL, SC 29715

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 8055 TALCOTT DRIVE		1	250.00	250.00

2/1/16
Going towards
CA - 200
OP - 50
Still need to
collect 150 as fw
OP: LE

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
8,719.79	3,317.77				

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	09/19/14	**Amount:**	250.00
Receipt #:	90836	**Tendered:**	250.00
Check / Auth #:	CHECK 1615	**Returned:**	0.00
Received By:	BEACHMS		

Account Information

Account #: 200000
Contractor: LIVE WELL HOMES, LLC
Attn:
Address: PO BOX 1345
Address:
City/State/Zip: FT MILL, SC 29716

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 8055 TALCOTT DRIVE		1	250.00	250.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
	587.40		270.00	1,859.65	

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 06/03/16
Receipt #: 100631
Check / Auth #: CHARGE
Received By: ELLISLW

Amount: 150.00
Tendered: 150.00
Returned: 0.00

Account Information

Account #: X44709
Contractor: LIVE WELL HOMES LLC
Attn:
Address: 501 SPRINGCREST DR
Address:
City/State/Zip: FORT MILL, SC 29715

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 8055 TALCOTT DRIVE		1	150.00	150.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
150.00	2,693.46				