

ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

## **Application for Services**

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submitted in accordance with G.S. 130A-335(a2), (a3), and (a5). [hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Please check one of the following:
<ul> <li>✓ New Construction  ☐ Expansion  ☐ System Relocation  ☐ Change of Use  ☐ Repair</li> <li>✓ 5 Year Expiration Requested (site plan provided)</li> <li>☐ Non-Expiring Permit Requested (plat provided, as defined in G.S. 130A-334(7a)</li> </ul>
Property Owner Name: KB Home Raleigh-Durham, Inc.  Property Owner Mailing Address: 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560  Property Owner Phone Number: 919-768-7995  Property Owner Email Address: raleighpermits@kbhome.com
Applicant Name: Same  Applicant Mailing Address:
Does the property include, or is subject to, any of the following:  Yes No  Previously identified jurisdictional wetlands  Solution of the following:  Previously identified jurisdictional wetlands  Existing or proposed easements, rights-of-way, encroachments, or other areas subject to legal restrictions  Yes No  Approval by other public agencies
A site plan or plat is required, OR the site sketch submitted from the LSS/AOWE, must include the following:  (A) existing and proposed facilities, structures, appurtenances, and wastewater systems  (B) proposed wastewater system showing setbacks to property line(s) or other fixed reference point(s)  (C) existing and proposed vehicular traffic areas  (D) existing and proposed water supplies, wells, springs, and water lines; and  (E) surface water, drainage features, and all existing and proposed artificial drainage, as applicable.  Requesting DHHS review: Yes No
I understand that the documentation and fees, as required in G.S. 130A-335(a2), (a3), (a5), and (a6), attached to this application are to be used to issue an Improvement Permit and/or Construction Authorization pursuant to G.S. 130A-335(a2),(a3), and (a5). I understand that authorized county and state officials are granted right of entry to the property indicated on this application to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that if the information in the application for an Improvements Permit and/or Construction Authorization is falsified, changed, or the site is altered, then the Improvement Permit and Construction Authorization shall become invalid.
Applicant Signature: Rachel Cavalear  Owner's Signature: Rachel Cavalear  Date: 3/13/2025  Date: 3/13/2025

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH

Permit/File #:	



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		Division of Public Health	
Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	Fee \$
	IMPROVEMI	ENT PERMIT FOR G.S. 130A-33	5(a2)
County: Harnett			
PIN/Lot Identifier: 054	19-07-7516.000		
Issued To: KB Home	Raleigh-Durham, Inc., 1800	Perimeter Park Dr., Ste. 140, Morr	risville, NC 27560
	Caspian Ct., Lillington, NC 2		
Subdivision (if applicabl	le) Elyse Meadows	Lot #:9	Block: Section:
LSS Report Provided: Y	es 🔳 No 🗌		
If yes, name and license	number of LSS: Michael D. Eak	ker, 1030	
New Facility Type: Single F		System Relocation	
		less Other:	
Design Wastewater Stre	ength: Domestic	☐ High Strength ☐ Industri	ial Process Wastewater
Proposed Design Daily F	Flow: 360 GPD	Proposed LTAR (Initial): 0.3 gpd/ft2	roposed LTAR (Repair): 0.3 gpd/ft2
Proposed Wastewater S	System Type*: Pump to Accepted	d (25% reduction) (Initial) Pump Red	quired: Yes No May be required
Proposed Wastewater S	System Type*: Pump to Accepted	d (25% reduction) (Repair) Pump Req	uired: Yes No May be required
		nter system types in accordance with Rule	
Effluent Standard:	DSE HSE NSF/ANSI 40	TS-I TS-II RCW	
	): Yes No Saprolite		
Fill System (Initial):	Yes 🔳 No If yes, specify: 🗌 New	Existing (when adding more than 6	inches of fill to system area provide a fill plan)
Fill System (Repair):	Yes No If yes, specify: Nev	w Existing (when adding more than	6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Init	ial)x: 40"	Usable Depth to LC (Repair)x: 32"	* Limiting Condition  Measured on the downhill side of the trench
Max. Trench Depth (Init	ial)‡: 18-24" Max. Trer	nch Depth (Repair)‡: 16" #	Measured on the downhill side of the trench
		specify details:	
		Shared well Municipal Supply	
			requirements of Rule .0601: Yes 🔳 No 🗌
Permit valid for: Five	e years [site plan submitted pursuar	nt to GS 130A-334(13a)] No expiration	n [plat submitted pursuant to GS 130A-334(7a)]
Ensure 6 inches approve	ad fill cover is maintained over system a	t or cut any soil within the septic drainfield area fiter installation.  French will be 24 deep fear road.	Certification Number 10013E
	rint Name: Michael D. Eaker	15/26/19	12/2/
Licensed Soil Scientist Si	gnature:		Date: 03/13/2025
T	he LSS evaluation is being submitte	ad nursuad to and made the	Ed - colo Tall and an

\*See attacked

NCDHHS/DPH/EHS/OSWP



Permit/File #:	

# This Section for Local Health Department Use Only

initial submitta	al received:	by	
	Date	Initials	
G.S. 130A-335(a3) states the following:			
When an applicant for an Improvement Permit submits to a lot department, the common form developed by the Department, within five business days of receiving the application, conduct. Permit includes all of the required components. If the local heat shall notify the applicant of the components needed to comple department to cure the deficiencies in the Improvement Permit is complete within five business days after the local health depart within any period set out in this subsection, the applicant in common form for use as the Improvement Permit.	and a soil evaluation pursuant to a completeness review of the sui with department determines that the the Improvement Permit. The t. The local health department sl artment receives the additional	o subsection (a2) of this section, the bmittal. A determination of complete the Improvement Permit is incompany applicant may submit additional in the land make a final determination as information from the applicant. If it	ne local health department shall, eteness means that the Improvement plete, the local health department information to the local health to whether the Improvement Permit the local health department fails to
The review for completeness of this Improvement Permit is determined to be:	Permit was conducted in	accordance with G.S. 130A	-335(a3). This Improvement
☐ Incomplete (If box is checked, information in	this section is required.)		
The following items are missing:			
Copies of this were sent to the LSS and the Applica	ant on		
State Authorized Agent:		Date:	:
Complete			
State Authorized Agent:		Date:	
This Improvement Permit is issued pursuant to G attached here. The issuance of this permit in no for checking with appropriate governing bodies in plat, or the intended use changes. The Improvempermit is subject to compliance with the provision. The Department, the Department's authorized agany liabilities, duties, and responsibilities impose evaluations, submittals, or actions from a license.	way guarantees the issuan meeting their requirem nent Permit shall not be a ns of 15A NCAC 18E and together, and the local health by statute or in common	nce of other permits. The pents. This permit is subject frected by a change in own the conditions of this pent departments shall be discontact from any claim arising the conditions of the cond	permit holder is responsible to revocation if the site plan, pership of the site. This rmit.  Charged and released from the site of the site of the site.
Improvement Permit Expiration Date:			

\*See attached site sketch\*



•	Ciliny	і пь т.	

# Re-submittal of Improvement Permit

	LHD USE ONLY: This IP resubmittal received:	by Initials	
The following it	tems are being resubmitted pursuant to G.S. 130A-335(a3) for issu	nance of the Improvement Pe	rmit:
is accurate and o	hereby attest that the information in the informati		
Signature	e of Licensed Soil Scientist	Date	
LHD Follow-u	The section below is for Local Health Department use after submitted properties of Improvement Permit	tal of items noted as missing ab	nove.
The review for co Improvement Pe	ompleteness of this Improvement Permit re-submittal was condu ermit is determined to be:	ucted in accordance with G.S.	. 130A-335(a3). This
☐ Incomplete The following ite	(If box is checked, information in this section is required.) ems are missing:		
	ere sent to the LSS and the Applicant on	Date:	
☐ Complete State Authorized	Agent:	Date:	



Permit/File #:	

## CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County: Harnett Pre-Construction Conference Required: Yes No
PIN/Lot Identifier: 0549-07-7516.000 - Elyse Meadows, Lot 9
Issued To: KB Home Raleigh-Durham, Inc., 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560
Property Location: 42 Caspian Ct., Lillington, NC 27546
AOWE/PE Plans/Evaluations Provided: Yes No If yes, name and license number of AOWE/PE: Michael D. Eaker 10013E
Facility Type: Single Family Dwelling
Number of bedrooms: 3 Number of Occupants: 6 or less Other:
■ New
Basement? Yes No Basement Fixtures? Yes No
Crawl Space? ■ Yes
Type of Wastewater System* Pump to Accepted (25% reduction) (Initial) Pump to Accepted (25% reduction) (Repair)
*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII
Design Daily Flow: 360 GPD Wastewater Strength: Domestic High Strength Industrial Process WW
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? Yes (if yes, please provide engineering documentation)
Effluent Standard: DSE HSE NSF/ANSI 40 TS-I TS-II RCW
Type of Water Supply: Private well Public well Shared well Municipal Supply Spring Other:
Installation Requirements/Conditions
Septic Tank Size: 1000 gallons Total Trench/Bed Length: 305 feet Trench/Bed Spacing: 9 feet on center
Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft² Usable Depth to LC (Initial) <sup>x</sup> : 40" *Limiting condition
Soil Cover: 6+ inches Slope Corrected Maximum Trench/Bed Depth‡: 18-24* (see nole) inches # Measured on the downhill side of the trench
Pump Tank Size (if applicable): 1000 gallons Requires more than 1 pump? Yes No
Pump Requirements: 12.62 ft. TDH vs. 18.07 GPM Grease Trap Size (if applicable): gallons
Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other:
Artificial Drainage Required: Yes No III If yes, please specify details:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.0204(g)]: ☐ Yes ■ No Declaration of Restrictive Covenants: ☐ Yes ■ No
Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: Yes No
Management Entity Required: Yes No Minimum O&M Requirements:
Permit conditions: Install as per detail sheet and map. Do not disturb, compact, rut or cut any soil within the septic drainfield area.  Ensure 6 inches approved fill cover is maintained over system after installation.  Start line 1 near rear property line at 18" trench bottom depth. Trench will be 24" deep near road.  The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance
The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.
AOWE/PE Print Name: Michael D. Eaker
AOWE/PE Signature:
This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).



Permit/File #		

# This Section for Local Health Department Use Only

Initial submittal received:		by
	Date	Initials
G.S. 130A-335(a5) states the following:		
When an applicant for a Construction Authorization, or an Improvement Permit of Improvement Permit and Construction Authorization application together, the perport of the permit and construction Authorization application together, the permit and any necessary signed and sealed plans or evaluations conducted engineer or a person certified pursuant to Article 5 of Chapter 90A of the General department shall, within five business days of receiving the application, conduct the Construction Authorization or Improvement Permit and Construction Authorization Authorization of the Construction Authorization or Improvement Permit and Consapplicant of the components needed to complete the Construction Authorization additional information to the local health department to cure the deficiencies in a Authorization. The local health department shall make a final determination as to Authorization. The local health department shall make a final determination as the Authorization is complete within five business days after the local health department department fails to act within any period set out in this subsection, the applicant apply for the building permit for the project upon the decision of completeness of Authorization by the local health department or if the local health department fails licensed engineer submitting the evaluation pursuant to this subsection may required and construction or Improvement Permit and Construction Authorization for cause. It is a subsection is a subsection or Improvement Permit and Construction Authorization for cause. It is a subsection is a subsection or Improvement Permit and Construction Authorization for cause. It is a subsection is a subsection or Improvement Permit and Construction Authorization for cause. It is a subsection is a subsection or Improvement Permit and Construction Authorization for cause. It is a subsection is a subsection or Improvement Permit and Construction Authorization for cause. It is a subsection in the construction Authorization for cause. It is a subsection i	ermit fee charged by tool by a person licensed of the person licensed of the person licensed of the person licensed of the person includes all of the struction Authorization or Improvement Pernothe Construction Authorowhether the Construction Authorowhether the Construction Authorization Authorization Authorization Authorization Authorization Authorization or Improvement Improvement Person Authorization or Improvement Person Im	the local health department, the common form developed by the loursuant to Chapter 89C of the General Statutes as a licensed rized On-Site Wastewater Evaluator, the local health of the submittal. A determination of completeness means that he required components. If the local health department in is incomplete, the local health department shall notify the nit and Construction Authorization. The applicant may submit corization or Improvement Permit and Construction action Authorization or Improvement Permit and Construction tional information from the applicant. If the local health to act as a determination of completeness. The applicant may the horization or Improvement Permit and Construction usiness days. The Authorized On-Site Wastewater Evaluator or lith department revoke or suspend the Construction of the Authorized On-Site Wastewater or licensed.
The review for completeness of this Construction Authorization	was conducted in	accordance with G.S. 130A-335(a5). This
Construction Authorization is determined to be:		
☐ Incomplete (If box is checked, information in this section is r	equired.)	
The following items are missing:		
Copies of this were sent to the AOWE/PE and the Applicant on _	Date	
State Authorized Agent:		Date:
☐ Complete		
State Authorized Agent:		Date of Issuance:
This Construction Authorization is issued pursuant to G.S. 130A attached here. This Construction Authorization is subject to rev Construction Authorization shall not be affected by a change in to compliance with the provisions of the Laws and Rules for Sev The Department, the Department's authorized agents, and the any liabilities, duties, and responsibilities imposed by statute or plans, evaluations, preconstruction conference findings, submit the General Statutes as a licensed engineer or a person certified Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (agents, and the local health departments shall be responsible at obligations under State law or rule, including the issuance of the Construction Authorization Expiration Date:	ocation if the site ownership of the wage Treatment a local health depar in common law stals, or actions from pursuant to Artifas), and (a7). The nd bear liability for e operations permitted to the common permitted in the common specific terms of t	using the signed and sealed plans or evaluations plan, plat, or the intended use changes. The site. This Construction Authorization is subject and Disposal and to the conditions of this permit.  The true of this permit is subject and Disposal and to the conditions of this permit.  The true of this permit is subject and Disposal and to the conditions of this permit.  The true of this permit is permit in the permit is an analysis of the conditions and other is at the plant in the permit is authorized or their actions and evaluations and other



Permit/File #:	

## **Re-submittal of Construction Authorization**

The following i		Date			n:
is accurate and	nsite Wastewater Evaluator (Print Name) complete to the best of my knowledge and that t	he proposed Constru			
The following items are being resubmitted pursuant to G.S. 130A-335(a5) for issuance of the Construction Authorization:					
The review for o	up Completeness Review of Construction	Authorization			30A-335(a5).
		quired.)			
	-	Date			
Complete			_ Date		
State Authorize	d Agent:		Date	e:	



Permit/File #:	
- 157.500.500.000.000.000.000.000.	

### ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County: Harnett
PIN/Lot Identifier: 0549-07-7516.000, Elyse Meadows, Lot 9
Issued To: KB Home Raleigh-Durham, Inc., 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560
Additional Improvement Permit Conditions: See attached detail sheet
Additional Construction Authorization Conditions: See attached detail sheet

# Southeastern Soil & Environmental Associates, Inc.

PO Box 9321 Fayetteville, NC 28311 Phone/Fax (910) 822-4540 Email mike@southeasternsoil.com

March 13, 2025

KB Home Raleigh-Durham, Inc. 1800 Perimeter Park, Suite 140 Morrisville, NC 27560

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-335(a2)/SL 2022-11), PIN 0549-07-7516.000, 42 Caspian Ct., Elyse Meadows Subdivision, Lot 9, Lillington, Harnett County, North Carolina

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were suitable for a subsurface waste disposal system (conventional, accepted and innovative) to serve a proposed single-family residence (4-bedroom home). All ratings and determinations were made in accordance with "On Site Wastewater Rules, 15A NCAC 18E". This LSS evaluation is being submitted to meet the requirements of GS 130A-335(a2)/SL 2022-11.

The soil evaluation was completed on March 12, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (3-5% slope). Soil borings conducted in most of this area consisted of 8 or more inches of loamy sand underlain by sandy loam, sandy clay loam, clay and/or sandy clay to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 40 inches below the soil surface (initial system) and 32 inches (repair system). All other soil characteristics were suitable to at least 48 inches.

Based on soil borings and site conditions, the site would be designated suitable for a pump to a shallow pump to accepted subsurface waste disposal drainfield (0.30 gal/day/ft2 LTAR; initial system). There is enough suitable soil area to allow for a pump to an accepted subsurface waste disposal system repair (0.30 gal/day/ft2). A map showing the approximate location of the site and proposed septic layout accompanies this report. [Note: No grading, rutting or other soil disturbance can occur in or near the proposed septic area. Any grading can alter the findings of this report and render the site unusable. As such, we recommend the builder protect the proposed septic areas with rope, flagging, fencing, etc.]

#### **Design Summary**

- Pump to Accepted product with **pressure manifold** (305', see septic layout)
- 360 gal/day flow rate (3BR)
- 18-24" maximum trench depth (initial)
- 1000-gallon septic and pump tank (certified watertight)
- Pump to produce 18.07 gal/min @ 12.62 feet TDH
- Pump dose 139 gallons (6.9-inch drawdown)
- 0.30 gpd/ft2 LTAR (initial and repair)
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2') within 15' of septic lines/areas
- Keep tanks and drainlines 10' from property lines
- Keep supply line 5 or more feet from property lines
- Install in dry soil conditions
- Maintain natural contours when clearing the lots
- · Direct gutter water away from septic system

During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend all lot clearing activity be delayed until the local health department issues a permit.

To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of time.

Sincerely,

Mike Eaker

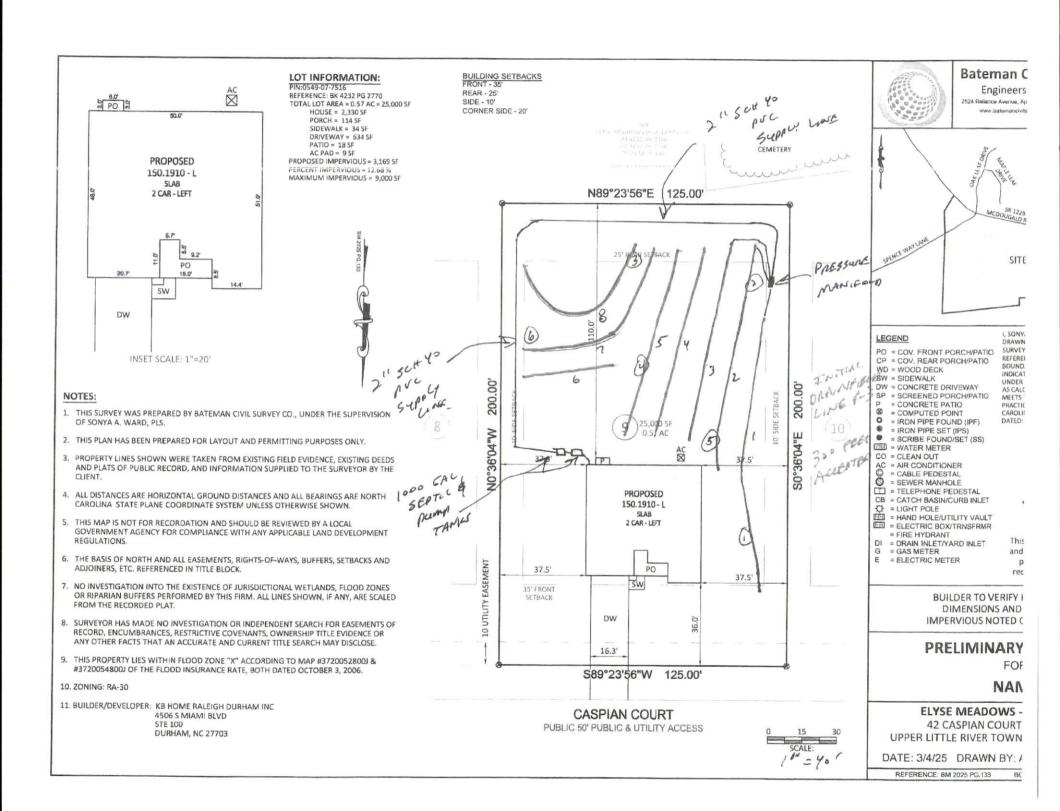
NC Licensed Soil Scientist # 1030

NC Authorized Wastewater Evaluator 10013E

## SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

## PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

	DISTRIE BENCHI	BUTION: Pres	cepted 25% Reduction ssure Manifold 100.0		REPAIR: Accepted 25% Reduction  DISTRIBUTION Pressure Manifold  LOCATION RC 9/10  LTAR 0.30 gpd/ft2  PUMP TANK SIZE 1000 Gallons
	LINE	FLAG	COLOR	<b>ELEVATION</b>	<u>LENGTH</u>
	1	P/F	)	98.50	115
Initial	_ 2	W		98.10	100
mittai	3	В		97.80	90
					305 TOTAL
Repair	4 5 6 7	R W R		97.10 96.80 96.70 96.50	100 100 100
	8	В		95.60	300 TOTAL
	TYPICAL	ke Eaker			DATE 3/12/25 THERE SHALL BE NO GRADING,
	0-23	LS/SL	VFr/Fr/Gr		CUTTING, LOGGING OR OTHER SOIL
Initial	23-48	SCL/SC	Fi/SBk		DISTURBANCE IN SEPTIC AREA
	CR2/	40"			HEALTH DEPARTMENT USE ONLY.
Repair	0-8 8-48 CR2/₽	LS/SL SCL/SC 32"	VFr/Fr/Gr Fi/SBk		DESIGNS DO NOT GURANTEE FUNCTIONALITY  Certification Number 2  Certification Number 2  Manual 1  Manual 1



#### RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit#

Elyse Meadows Lot 9

# of BDR:

3 Daily Flow:

360 gal/day

L.T.A.R.: 0.3000 gal/day/sq.ft

Septic Tank:

1000 gals

Pump Tank:

1000 gals Sq. Foot:

915

Number of Taps:

3

Length of Trenches:

305

System Type: Accepted

ft(See Tap Chart for Details)

Depth of Trenches:

18-24

Manifold Length:

36

in

Manifold Diameter:

4in sch 80pvc

Tap Configuration: 6 in spacing

1

side(s) of manifold

Supply Line: length:

250

139

Diameter:

2 in sch 40pvc

Friction Loss + Fitting Loss:

2.62

in

ft

ft(supply line length + 70' for fittings in pump tank)

Design Head:

ft 2

Elevation Head:

8.00

Total Head:

12.62 ft

Pump to Deliver:

18.07

gals/min at

12.62

ft head

Dosing Volume:

gals,

Drawdown: 139 gals divided by

gals/in = 20

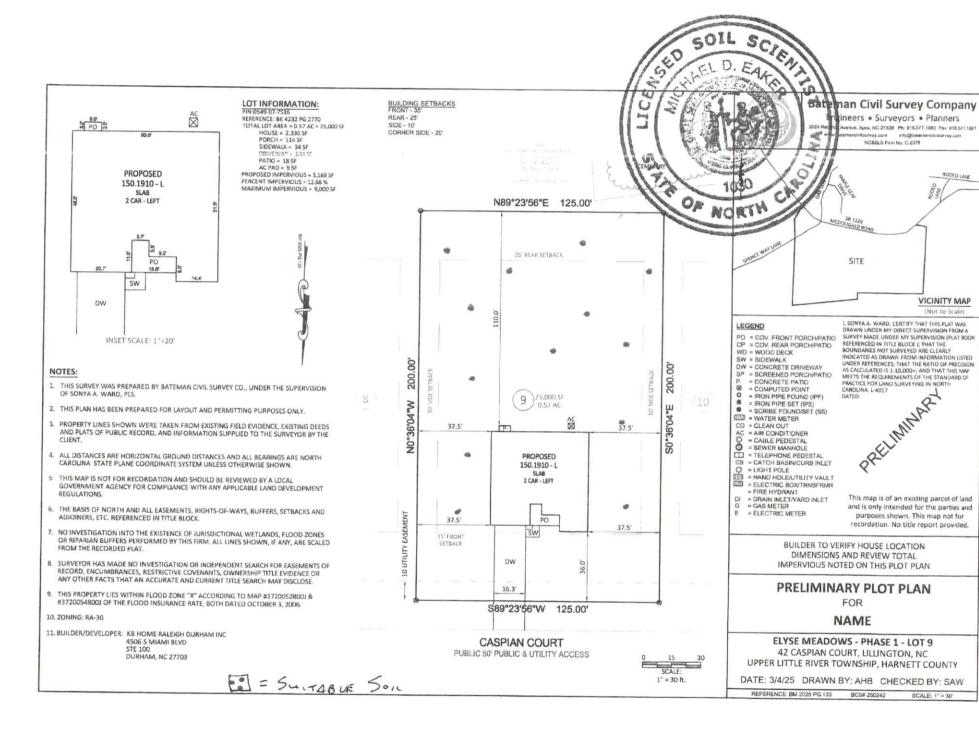
6.9

inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

#### TAP CHART

Benchmark	4.3	is = 100.00	FC 9/10				Design Head:	2			
Pump tank elev.		7.8	96.50	Pump elev.	91.50		Manifold elev.	99.50			
***			1							# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
1	P/P	5.80	98.50	115	1/2in SCH 40	7.11	141.65	345	0.4106		
2	W	6.20	98.10	100	1/2in SCH 80	5.48	109.18	300	0.3639		
3	В	6.50	97.80	90	1/2in SCH 80	5.48	109.18	270	0.4044		
			104.30			0	0.00	0	#DI\//0!		
			104.30			0	0.00	0	#DI\//0!		
			104.30			0	0.00	0	#DI\//0!		
			104.30			0	0.00	0	#DI\//0!		
			104.30			0	0.00	0	#DI\//0!		
			104.30			0	0.00	0	#DI\//0!		
			104.30			0	0.00	0	#DI\//0!		
			Total Feet =	305	gal/min =	18.07		LTAR =	0.3000		
			Feet Required =	300	Velocity =	1.73		(Itar + 5%)	0.3150		
Total # of Panels	(PPBPS)			Des. Flow	360			(Itar w/25% red)	0.4000		
% of Dose Vol.		70		Pump Run=	19.92			(ltar + 5%)	0.4200		
Dose Volume		139		Tank Gal/IN	20						
Dose Pump Time		7.68		Elev. Head	8.00						
Drawdown in Inch	nes	6.9									
Comments:											



DEPARTMENT OF HEALTH AND HUMAN SERVICE DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 2
ID #:
COUNTY: Harnett

#### SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM (Complete all fields in full)

OWNER: KB Homes

ADDRESS: 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560

PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.1949): 360 GPD (3BR)

LOCATION OF SITE: 42 Caspian Ct., Lillington (Lot 9) Elyse WATER SUPPLY:  $\Box$  Private X Public Well  $\Box$  Spr.

(22.10)

APPLICATION DATE DATE EVALUATED:03/12/25 PROPERTY SIZE: 0.57 Ac PROPERTY RECORDED

P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS					
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR O CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR	
	LS 2-4%	0-13	LS/Gr	VFr/Nexp	>48"	42"	NA	NA	Suitable	
1		13-31	LS/SL/Gr	VFr/Nexp	10YR 6/4				0.30	
1		31-40	SCL/mm sbk	Fi/SExp	10YR 5/8					
		40-48	SCL/SC/wfsbk	Fi, SExp	7.5YR 5/8					
					2.5YR 5/8 mot					
	LS 2-4%	0-8	LS/Gr	VFr/Nexp	>48"	NA	NA	NA	Suitable	
_		8-23	SL/SCL/wf sbk	Fr/Fi/SExp	10YR 6/4 10YR 5/8				0.30	
2		23-42	SL/wf sbk	Fr/SExp	10YR 6/6					
		42-48	SC/wfsbk	Fi, SExp	7.5YR 5/8 mot					
	LS 2-4%	0-8	LS/Gr	VFr/Nexp	32"	NA	NA	NA	Suitable	
_		8-17	SC/C/mm sbk	Fi/Sexp	7.5YR 5/8				0.30	
3		17-32	SCL/mm sbk	Fi/SExp	10YR 5/8					
		32-48	SC/wf sbk/mass	Fi/SExp	10YR 5/8 2.5YR 5/8 mot					
					10YR 7/1 mot					
	LS 2-4%	0-14	LS/SL/Gr	Fr/Nexp	36"	NA	NA	NA	Suitable	
		14-22	SL/Gr	VFr/Nexp	10YR 6/4				0.30	
4		22-36	SC/mm sbk	Fi/SExp	10YR 5/8					
		36-48	SCL/wf sbk	Fi/SExp	7.5YR 5/8					
					10YR 7/1 mot					

INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Yes	Yes	SITE CLASSIFICATION (.1948): Suitable
Accepted	Accepted	EVALUATED BY: M. Eaker OTHER(S) PRESENT:
0.30	0.30	
	Yes Accepted	Yes Yes Accepted Accepted

#### SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH ENVIRONMENTAL HEALTH SECTION ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: Elyse Lot 9 DATE OF EVALUATION: 03/12/25 COUNTY: Harnett

P R O F .1940 I LANDSCAPE POSITION/ SLOPE %			SOIL MORPHOLOGY (.1941)		OTHER PROFILE				
	LANDSCAPE POSITION/	HORIZ ON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	LS 2-4%	0-12	LS/Gr	VFr/NExp	40"	NA	NA	NA	Suitable
		12-27	LS/Gr	VFr/NExp	10YR 6/4				0.30
5		27-37	SC/mm sbk	Fi/SExp	10YR 5/8 10YR 5/8				
		37-40	SCL/wf sbk	Fi/SExp	2.5YR 4/8				
		40-48	SCL/wf sbk	Fi/SExp	10YR 5/8 10YR 7/1 mot				
	LS 2-4%	0-16	LS/Gr	VFr/NExp	41"	NA	NA	NA	Suitable
6		16-36	SC/mm sbk	Fi/SExp	7.5YR 5/8				0.30
		36-41	SL/wf sbk	Fi/SExp	2.5YR 4/8				
		41-48	SC/mm sbk	Fi/SExp	2.5YR 4/8				
					10YR 7/1 mot				
					1				
					1				
					1				

Updated February 2014