IREDELL COUNTY HEALTH DEPARTMENT

PSB Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP-3048

SEPTIC IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4639-83-8007

APPLICANT/OWNER: Cale Arnold APPLICANT ADDRESS: 249 S. San Agustin Dr. Mooresville, NC

SITE ADDRESS: 249 S. San Agustin Dr. Mooresville, NC PHONE: 772-579-9423 ALT. PHONE

SITE DIRECTIONS: Perth Rd → Bells Crossing Dr → S. San Agustin Dr. → House on left SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Bells Crossing SECTION: Ph4 LOT # 168 LOT AREA: 1.22 acres DESIGN FLOW: 600 GPD L.T.A.R.: 0.275

Septic Tank	1250 Existing (gal)	STB	Ex	Date	Ex	☐ New System	☒ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 5
Pump Tank	1250 (gal)	PT		Date		System Description:	Repair/Replace Pump tank as needed			☐ Business	No. Persons 10
Pump Make	Existing	Model	Existing	Serial #	Existing	Repair System Description:	and check plumbing connections			☐ Other	No. Employees
# Nitrification Fields	Existing	# Lines	Ex	Linear Ft	Ex	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☐ Crawl Space
Trench Width	Ex	Trench Bottom Depth(Low side)	Ex	Gravel Depth	—		☐ GRAVITY	☒ PRESSURE		☒ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☐ Private ☐ Public ☒ Community

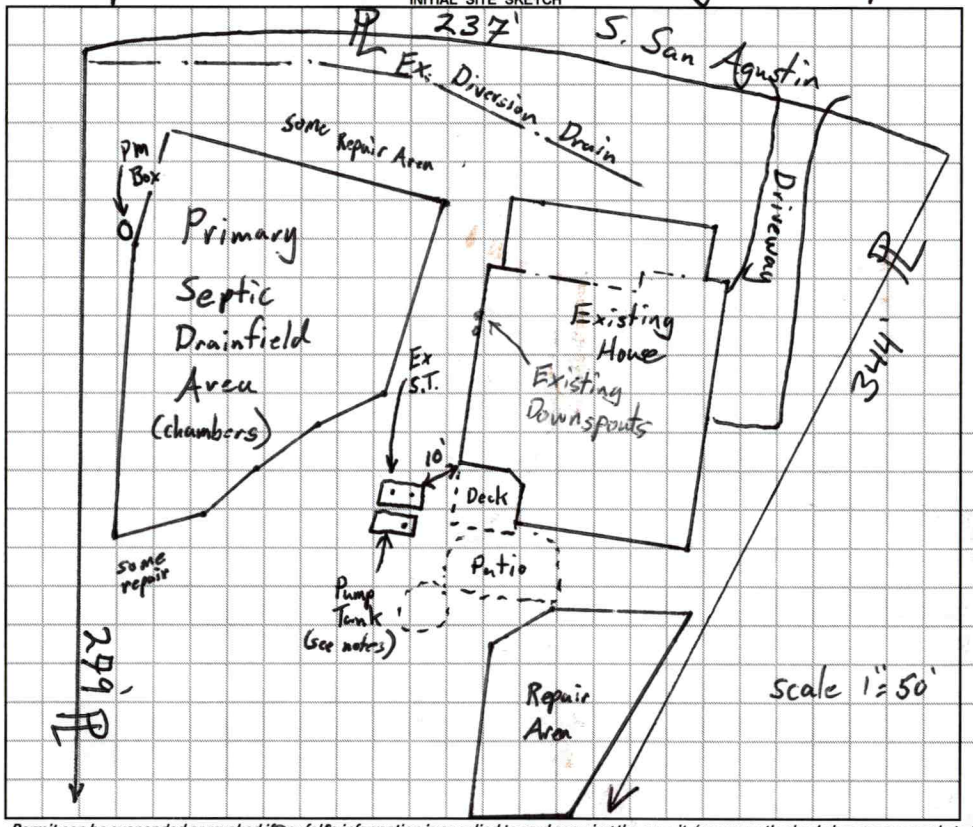
Comments / Conditions: Pump tank to either be replaced with new tank OR re-set and water tested for 24-hours. All upslope downspout drains MUST be directed away from septic area and any components. Utilize steps/guidance within Buoyancy Control Guide to secure pump tank. ICHD + Infiltrator Field Staff to be present when tank is uncovered. Call 919-815-1564 to coordinate w/ Infiltrator. Functional test of pump, connections + electrical are required. Replace if needed.

3/30/2020: Integrity OK per Infiltrator (Tim Ward) + Tim Ammons. 4+60lb cement bags used as anchors

3/31/2020: Electric checked and all was good looked at breaker Box and they had 2 switches, water level was the same as yesterdays 3/30 2020 measurement.

OK with Infiltrator as well. -SF

INITIAL SITE SKETCH



AS BUILT SKETCH

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: [signature] Date: Installed by: T.W. Ammons Septic Service

IMPROVEMENT PERMIT by: Tom Shuck Date: 2/14/2020 OPERATION PERMIT by: Patrick J Bagley III Date: 3/31/2020

AUTHORIZATION TO CONSTRUCT by: Tom Shuck Date: 2/14/2020 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inpsector to confirm your inspection time.

iMessage
Today 4:45 PM

Tim Wood with Infiltrator.
828-405-8254
Thank you.

Hey Tim, if you could text me your approval for South San Augustine, or if you prefer to email your approval of it, that would be fantastic.

Read 6:18 PM

Based on the pictures Tim Ammons sent me of the tank and our discussion of anti buoyancy I approve of the tank on that site. Thank you.

Infiltrator IM-Series Tank Buoyancy Control Guidance

HD Copy to keep w/ Permit

MAY 2019

INFILTRATOR® tanks

Before you Begin

This document presents a method for assessing buoyancy control needs for Infiltrator Water Technologies (Infiltrator) IM-Series tanks. Tank buoyancy control measures must be implemented according to state and/or local regulations and approvals, which may supersede these guidelines. If unsure of the requirements for a particular site, contact the local health department or permitting authority.

If tank buoyancy control measures are implemented, refer to Infiltrator IM-Series Tank Installation Instructions and Riser Connection Guidance documents, as applicable, for completing the installation.

How to Use this Document

1. Using Step 1, Table 1, and Figures 1 and 2, verify that the level of uninterrupted saturated soil is below the height of the outlet pipe saddle and determine if buoyancy control is required.
2. Use the appropriate row in Step 2, Table 2 to determine the minimum buoyancy control methods for the site conditions.
3. Once the preferred buoyancy control method is selected, follow the implementation procedures provided in Step 3.

Step 1 – Determine Need for Buoyancy Control

Required information: (1) maximum height of uninterrupted saturated soil above the tank bottom; and (2) the depth of soil cover above the tank top. Tank buoyancy control may be required if:

- the level of uninterrupted saturated soil outside the tank has the potential to rise 30 inches (750 mm) or more above the bottom of the tank; and

- less than 12 inches (300 mm) of soil cover is to be placed as backfill over the tank top.

NO BUOYANCY CONTROL IS REQUIRED IF THERE ARE AT LEAST 12 INCHES (300 MM) OF SOIL COVER ABOVE THE TANK TOP.

Table 1 Instructions

1. In the left-hand column of Table 1, locate the row corresponding to the height of the uninterrupted saturated soil elevation outside the tank and above the tank bottom (Parameter I) for the site conditions. See Figure 2.
2. Follow that row to the right until reaching the column corresponding to the depth of soil cover above the tank top (Parameter II). See Figure 2.
3. If the tank model is listed in that cell, then buoyancy control is required (proceed to Step 2). If the tank model is not listed in that cell, then no buoyancy control is required.
4. IM-Series tanks shall not be installed where the uninterrupted saturated soil level outside the tank exceeds the height of the outlet pipe saddle.

Table 1:
Infiltrator Tank Models[1] and Conditions Requiring Buoyancy Control

Parameter I: Position of uninterrupted saturated soil conditions above tank bottom		Parameter II: Soil cover depth above tank top[2]	
		A	B
		6 in (150 mm) to 12 in (300 mm)	Above 12 in (300 mm)
1	Above outlet pipe saddle[3] (greater than 43" [1,075 mm])	Do not install tank	Do not install tank
2	36" (900 mm) to 43" (1,075 mm) (to outlet pipe saddle)	All models	Not Required
3	30" (750 mm) to 36" (900 mm)	IM-1530	Not Required
4	Less than 30" (750 mm)	Not Required	Not Required

NOTES:
1. Infiltrator tank models include: IM-540, IM-1060, and IM-1530.
2. Minimum 6 inches (150 mm) soil cover backfill is required.
3. IM-Series tanks shall not be installed where the uninterrupted saturated soil outside the tank exceeds the height of the outlet pipe saddle. See Figure 1. For Indiana installations, if the depth of uninterrupted saturated soil conditions cannot be determined from the site soil evaluation report or other site-related data and other information indicates the possible presence of a perched ground water table, no buoyancy controls are required.

Figure 1:
Limitations When Saturated Soil Conditions are Present Above Tank Bottom

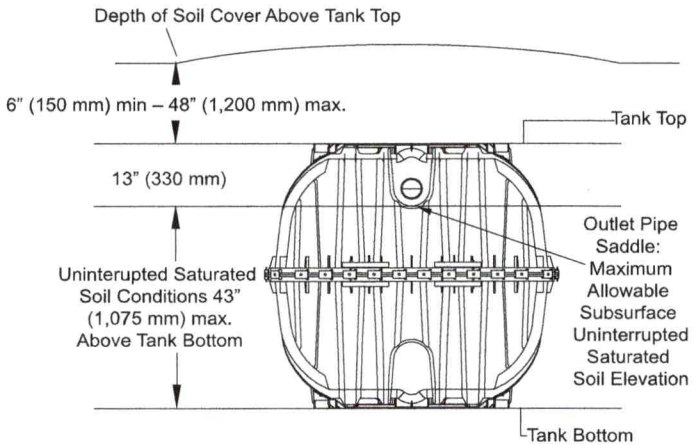
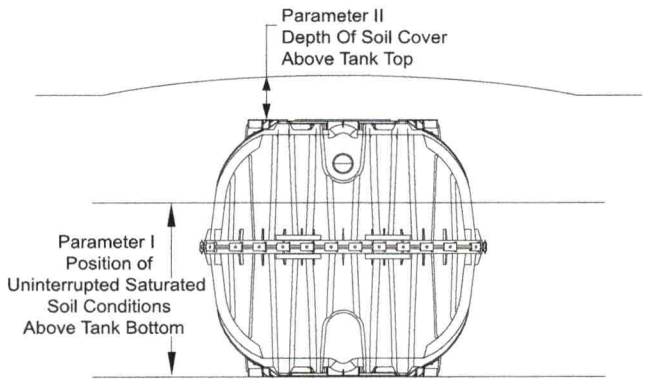


Figure 2:
Buoyancy Control Parameters for Table 1



Step 2 – Determine Buoyancy Control Method

Step 2 is used if the Step 1 analysis shows that buoyancy control is required for the tank model and installation conditions. The site-specific maximum height of uninterrupted saturated soil outside of the tank and above the tank bottom and the depth of soil cover above the tank top must be known to complete Step 2.

Table 2 Instructions

For the appropriate tank model, select the desired buoyancy control method under each method description column. Refer to Step 3 – Implementation and Compatible Devices and Products sections of this document for additional information on the buoyancy control methods shown in Table 2.

Table 2: Buoyancy Control Method Selection

Tank Model	Parameter I: Position of uninterrupted saturated soil conditions above tank bottom	Parameter II: Soil cover depth above tank top	Minimum supplemental downward force required[1] (total, both tank sides)	Buoyancy Control Methods				
				Concrete-filled half pipe (min. length/ side)	Concrete parking bumpers (min. length/ side)	Concrete traffic barriers (min. length/ side)	Helical anchors (min. no./side)	Concrete collar (min. width x min. height)
IM-540	36 in (900 mm) to outlet pipe saddle[2]	6 in (150 mm) to 12 in (300 mm)	2,200 lbs (1,000 kg)	3.8 ft (1.2 m)	3.8 ft (1.2 m)	3.8 ft (1.2 m)	2	6 in (150 mm) x 9 in (225 mm)
IM-1060	36 in (900 mm) to outlet pipe saddle[2]	6 in (150 mm) to 12 in (300 mm)	2,700 lbs (1,225 kg)	4.2 ft (1.3 m)	4.5 ft (1.4 m)	4.2 ft (1.3 m)	2	12 in (300 mm) x 9 in (225 mm)
IM-1530	30 in (750 mm) to outlet pipe saddle[2]	6 in (150 mm) to 12 in (300 mm)	4,300 lbs (1,955 kg)	6.3 ft (2.0 m)	6.5 ft (2.0 m)	6.3 ft (2.0 m)	2	12 in (300 mm) x 9 in (225 mm)

NOTES:
1. See Supplemental Downward Force discussion below.
2. IM-Series outlet pipe saddle height is 43 inches (1,075 mm) above tank bottom (see Figure 1).

Supplemental Downward Force

The minimum supplemental downward force required is included in Table 2 to allow custom buoyancy control methods. These values include a factor of safety of 1.5 applied to the calculated downward force required to restrain the tank. Custom-designed buoyancy control methods shall conservatively consider saturated soil conditions from the bottom-of-tank elevation to ground surface. As long as buoyancy control is provided that supplies the minimum downward force listed in the table (for poured-concrete blocks or other methods designed by third parties), the tanks are calculated to be stable for the uninterrupted saturated soil level outside the tank and above the tank bottom and corresponding soil cover conditions. All Infiltrator strapping and fastening recommendations apply for custom-designed buoyancy control methods. Contact Infiltrator's Technical Services Department with any questions regarding supplemental downward force requirements.

Step 3 – Implementation

Effective buoyancy control of Infiltrator tanks requires careful preparation, thorough excavation, precise placement, secure strapping and proper backfilling, as described and illustrated below.

4 x 60 lb bags

Excavation Requirements

It is recommended that the excavation width provide a minimum of 36 inches (900 mm) clearance beyond the tank on all sides when utilizing buoyancy control. This will allow sufficient space within the excavation to place anchoring equipment and fasten strapping. The excavation should provide a minimum 48-inch (1,200 mm) clearance beyond the tank when using Chance™ No-Wrench Screw Anchors to allow for room to properly install the screw anchors. The actual excavation size shall be determined by the installer. Refer to Infiltrator IM-Series Tank Installation Instructions for additional excavation procedures.

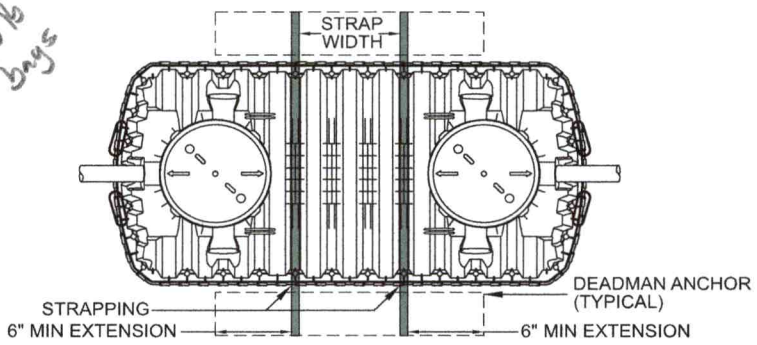
Concrete-filled Half Pipe Construction

Concrete-filled half pipe shall be supported with soil or other stabilizing means below the pipe haunches prior to concrete placement. The stabilization shall prevent the pipe from rolling during placement and curing of the concrete. Concrete shall be allowed to cure for a minimum of one day prior to tank backfilling.

Placement of Deadmen and Anchors

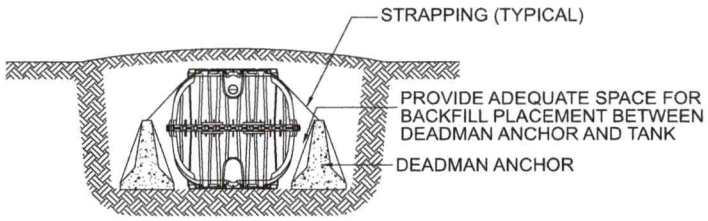
Concrete deadman anchors are to be installed at the bottom of the tank excavation, parallel to the long axis of the tank (see Figure 3).

Figure 3: Plan View



The deadmen should be placed close to, but not touching, the tank on both sides of the tank to allow the placement of backfill between the deadman anchor and tank sidewall (see Figure 4).

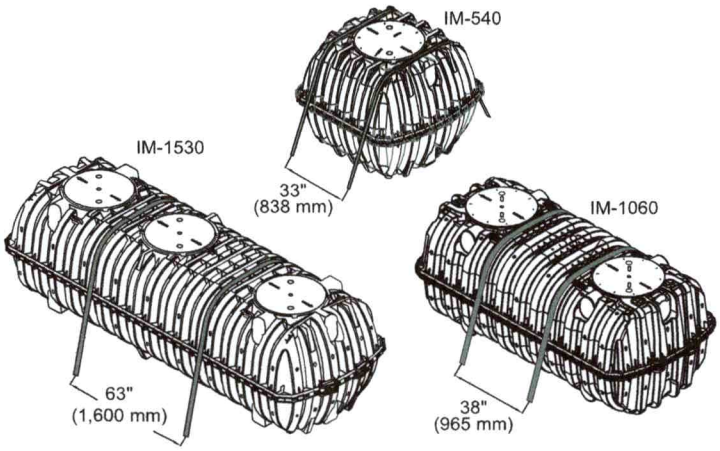
Figure 4: Section View



Step 3 – Implementation continued

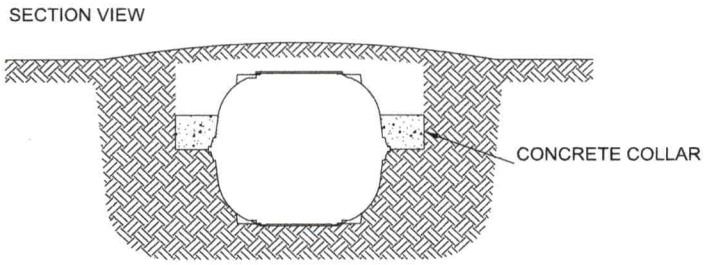
Helical anchors should be installed so that the eye loop is level with the bottom of the tank excavation. They must be in line with the tank model strapping locations (see Figure 5) or lifting lugs, as appropriate. Anchors must also be installed at such a distance from and angle to the tank so that the strapping is within 5° of alignment with the anchor shaft per the anchor manufacturer's recommendations.

Figure 5: Strap Positioning



Concrete Collar

Backfill the tank to the mid-seam area. Concrete (minimum 3,000 psi at 28 days and minimum 6% air entrainment) shall be cast in contact with the exterior surface of the tank to allow interlock with sidewall ribs and the mid-height flange. The bottom of the concrete collar shall be cast at the top of the mid-seam flange.



Strapping

Proper installation of straps over the tank is critical for tank stability under changing conditions both inside and outside the tank. Straps must be placed at the specified strapping locations for each model, as illustrated in Figure 5. Strapping locations are embossed on the exterior surface of the tank with the following text: "SHIPPING/ANTI-BUOYANCY STRAP HERE." The IM-Series tank strapping locations correspond to structurally reinforced areas of the tank body. Straps must never be placed over access openings, lids, or inlet/outlet piping. (Straps must be tightened with a ratchet or turnbuckle system to remove slack and slightly pre-load the system).

Strapping Notes:

1. The buoyancy control shall be centered across the straps (excludes helical anchors). The control shall extend a minimum of 6 inches (150 mm) beyond the maximum strap width (see Figures 3 and 5).
2. The minimum deadman length corresponds to the tank model-specific strap width plus 12 inches (300 mm).

Backfill and Cover

Place backfill between deadman anchor and tank sidewall to fully fill void and tank body corrugations. A minimum 6" layer (150 mm) of suitable cover material is required over all Infiltrator tank installations. Mound cover to direct surface water drainage away from the tank excavation footprint to prevent filling of the tank excavation with precipitation. Establish erosion-resistant vegetation within the tank installation footprint. Refer to Infiltrator IM-Series Tank Installation Instructions for complete backfilling and cover procedures.

Parts and Supplies

The parts and supplies necessary are to be purchased separately from the tank. All parts and supplies are either commercially available or available through Infiltrator's network of tank distributors. Some parts may require fabrication on site using common construction practices.

General Specifications

Compatible Devices and Products

Infiltrator tanks are compatible with the following products for buoyancy control:

- Tie-down straps: high-tensile-strength, 10,000 lb (4,500 kg) minimum capacity, nylon or polyester, with corrosion-resistant hardware.
- Concrete deadmen anchors: concrete-filled plastic half pipe, precast parking bumper, precast traffic barrier, or precast block.
- Helical anchors: Chance™ No-Wrench Screw Anchors with minimum 6-inch (150 mm) diameter, Class 7 or equal.
- Mid-Seam Concrete Collar: cast-in-place concrete (minimum 3,000 psi compressive strength at 28 days and minimum 6% air entrainment).

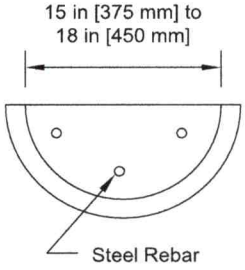
Tie-Down Straps



Straps are commercially available in varying lengths and with assorted hardware and tightening options. Nylon or polyester strapping with minimum 8,000 lb (3,650 kg) capacity is required for buoyancy control use with Infiltrator tanks. Place straps over the tank at specified locations only (see Figure 5). (Tighten straps snugly with a ratchet or turnbuckle system to remove all slack and slightly pre-load the system). All connections, fittings, and hardware must be corrosion resistant or coated with epoxy or other corrosion-resistant materials to inhibit deterioration in the subsurface environment. Consider encapsulating such components in heat-shrink tubing or applying a corrosion-resistant coating prior to burial.

Concrete Deadmen Anchors

Recommended concrete deadmen anchors include filled plastic half pipe, precast parking bumpers and traffic barriers, and precast blocks. The weight of the deadmen anchors combined with the weight of soil above them provides buoyancy control when properly secured. Deadmen anchors are placed at the bottom of the tank excavation on opposite sides of the tank. The deadmen anchors are fastened to each other with tie-down straps placed over the tank at the locations specified for each tank model (see Figure 5).

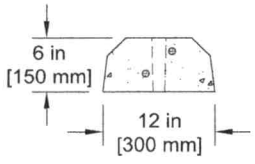


Concrete-filled Plastic Half Pipe

Use Schedule 40 PVC plastic pipe with a minimum inside diameter of 15 inches (375 mm) or HDPE corrugated pipe with a minimum inside diameter of 18 inches (450 mm) cut in half lengthwise. Fill with concrete having a minimum unit weight of 145 lbs/ft^3 (2.32 metric tons/m^3) reinforced with three equally spaced 40-grade, 1/2-inch (13 mm) diameter steel bars. Weight is 61 lbs/ft (91 kg/m) minimum.

Concrete Parking Bumper

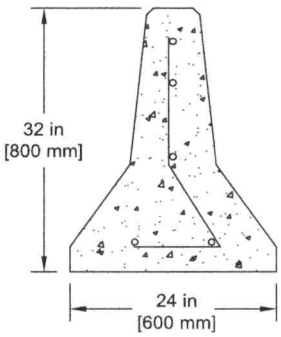
Use commercially available steel-reinforced parking bumpers with typical dimensions of 12 inches wide by 6 inches high (300 mm x 150 mm). Weight is 58 lbs/foot (86 kg/m) minimum.



General Specifications continued

Concrete Traffic Barrier

Use commercially available steel-reinforced concrete traffic barrier or equivalent. Typical dimensions include a 24-inch-wide base tapering to a 6-inch-wide top, with a height of approximately 32 inches (600 mm x 150 mm x 800 mm). Weight is 390 lbs/foot (580 kg/m) minimum.



Precast Blocks

Concrete precasters can fabricate blocks of various dimensions and weights. Blocks are often an affordable option if they satisfy the minimum weight requirements for use as buoyancy control (see Table 2 and the Supplemental Force section of Step 2 for more information).

Helical Anchors

Chance™ No-Wrench Screw Anchors with a 6-inch (150 mm) diameter flight, Class 7, or equal. These anchors rely on the shear strength of the soil combined with the weight of the soil above the anchor flight to provide holding strength. Proper installation is to 4 feet (1.2 m) below the bottom of the tank excavation and to within 5° of alignment with the strap alignment. Determine the proper locations for anchor installation to ensure that tie-down straps will be aligned properly for each tank model (see Step 3: Implementation), and follow the anchor manufacturer installation instructions.



Typical working torque:
¾" Rod 400 ft. lbs. (542 N·m)
1" Rod 1,000 ft. lbs. (1,356 N·m)
1¼" Rod 2,300 ft. lbs. (3,118 N·m)

Concrete Collar

A ballast may be constructed along the mid-height seam of the tank using cast-in-place concrete (minimum 3,000 psi compressive strength at 28 days and minimum 6% air entrainment). Concrete shall be cast in contact with the exterior surface of the tank to allow interlock with sidewall ribs and the mid-height flange. Reinforcing steel is not required, but may be added if desired.

General Information

- Prior to ground disturbance, check for subsurface obstructions and utilities in conformance with applicable regulatory requirements.
- Excavation safety provisions shall conform to applicable government regulations.
- Follow manufacturer instructions for all products and devices used for Infiltrator tank buoyancy control.
- Buoyancy control methods described herein do not account for unanticipated conditions such as surface flooding, temporary inundation or other natural occurrences, unintended removal of cover fill over tank, etc.
- Buoyancy control methods described herein are recommendations only; consult a professional engineer for customized designs, if desired.

Infiltrator Water Technologies, LLC ("Infiltrator")

INFILTRATOR® SEPTIC TANK LIMITED WARRANTY FIVE (5) YEAR MATERIALS AND WORKMANSHIP LIMITED WARRANTY

(a) This limited warranty is extended to the end user of an Infiltrator Tank. A Tank manufactured by Infiltrator, when installed and operated in accordance with Infiltrator's installation instructions and local regulation by a person or company that is properly qualified to install the Infiltrator tank in accordance with applicable state and/or local requirements, is warranted to you: (i) against defective materials and workmanship for five (5) years after installation. Infiltrator will, at its option, (i) repair the defective product or (ii) replace the defective materials. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Tank.

(b) In order to exercise its warranty rights, you must notify Infiltrator in writing at its corporate headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect.

(c) YOUR EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSSES OR DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER SHALL BE SPECIFIED IN SUBPARAGRAPH (a) ABOVE. INFILTRATOR SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, HOWEVER OCCASIONED, WHETHER BY NEGLIGENCE OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS LIMITA TION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

(d) THIS LIMITED WARRANTY IS THE EXCLUSIVE WARRANTY GIVEN BY INFILTRATOR AND SUPERSEDES ANY PRIOR, CONTRARY, ADDITIONAL, OR SUBSEQUENT REPRESENTATIONS, WHETHER ORAL OR WRITTEN. INFILTRATOR DISCLAIMS AND EXCLUDES TO THE GREATEST EXTENT ALLOWED BY LAW ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FINESSE FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. NO PERSON (INCLUDING ANY EMPLOYEE, AGENT, DEALER, OR REPRESENTATIVE) IS AUTHORIZED TO MAKE ANY REPRESENTATION OR WARRANTY CONCERNING THIS PRODUCT, EXCEPT TO REFER YOU TO THIS LIMITED WARRANTY. EXCEPT AS EXPRESSLY SET FORTH HEREIN, THIS WARRANTY IS NOT A WARRANTY OF FUTURE PERFORMANCE, BUT ONLY A WARRANTY TO REPAIR OR REPLACE.

(e) YOU MAY ASSIGN THIS LIMITED WARRANTY TO A SUBSEQUENT PURCHASER OF YOUR HOME.

(f) NO REPRESENTATIVE OF INFILTRATOR HAS THE AUTHORITY TO CHANGE THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER, OR TO EXTEND THIS LIMITED WARRANTY.

(g) NO WARRANTY OF ANY KIND IS MADE WITH REGARD TO ANY PRODUCT, COMPONENTS, DEVICES, MEDIA OR TREATMENT UNITS WHICH ARE MANUFACTURED BY OTHERS AND ARE INSTALLED IN AN INFILTRATOR TANK. USE OF THESE PRODUCTS ARE AT YOUR OWN RISK.

(h) THE INFILTRATOR TANK IS DESIGNED TO BE BURIED UNDERGROUND. NO WARRANTY OF ANY KIND IS MADE IF YOUR TANK IS NOT BURIED UNDERGROUND AS SPECIFIED IN THE PRODUCT'S INSTALLATION INSTRUCTIONS.

CONDITIONS AND EXCLUSIONS

There are certain conditions or applications over which Infiltrator has no control. Defects or problems as a result of such conditions or applications are not the responsibility of Infiltrator and are NOT covered under this warranty. They include failure to install the Tank in accordance with instructions or applicable regulatory requirements or guidance, altering the Tank contrary to the installation instructions and disposing of chemicals or other materials contrary to normal tank usage.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of regulatory jurisdictions have different warranty requirements. Any purchaser of a Tank should contact Infiltrator's corporate headquarters in Old Saybrook, Connecticut, prior to such purchase to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of a Tank.

INFILTRATOR
water technologies

4 Business Park Road
P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • Fax 860-577-7001
1-800-221-4436
www.infiltratorwater.com
info@infiltratorwater.com

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok is a trademark of PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

© 2019 Infiltrator Water Technologies, LLC All rights reserved. Printed in U.S.A.

RECEIVED FEB 11 2020

AP-304889

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE OR IT WILL NOT BE PROCESSED

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM*

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit ( ) Authorization to Construct ( ) Existing System Inspection (X) Septic System Repair

Repair Evaluation.

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Cale Arnold **Address:** 249 S. San Agustin Dr. **Zip:** 28117
Applicant Email: Calearnold@gmail.com **Phone:** 772-579-9423 **Alt. Phone:** _____
Owner Name: Cale Arnold **Address:** 249 S. San Agustin Dr **Zip:** 28117
Owner Email: Calearnold@gmail.com **Phone:** 772-579-9423 **Alt. Phone:** _____

Property Information:

Street Address: 249 South San Agustin Dr.
Subdivision Name: Bells Crossing **Section/Phase:** _____ **Lot Number:** 168
Driving Directions: Off of Perth

Site Development Information: *(check or complete ALL that apply*

( ) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
(X) Repair to failing septic system ✓ Tank ___ Drain lines
Maximum Number of Bedrooms: 5
Maximum Number of Occupants: 5
( ) Swimming Pool
( ) Other Addition/Structure: _____
Describe Problem: raised out of the ground from the rain
Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

CHECK FOUNDATION TYPE

( ) Crawl Space Foundation
( ) Concrete Slab Foundation
(X) Basement with Plumbing
( ) Basement without Plumbing

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____
( ) New Well ( ) Existing Well (X) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: 2017
( ) No Preference ( ) Alternative (X) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:
( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

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.

Signature: _____ 2/11/20
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

☒ **1. * APPLICANT AND OWNER ARE THE SAME. *** (*Sign here*) _____

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship* In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:
Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.
By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

☒ **2.** I, Lindsay J. Arnold, am the legal owner(s) of the property located at 249 S. San Agustin Dr., identified as

PIN (Parcel Identification Number)_____, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) _____,

_____, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

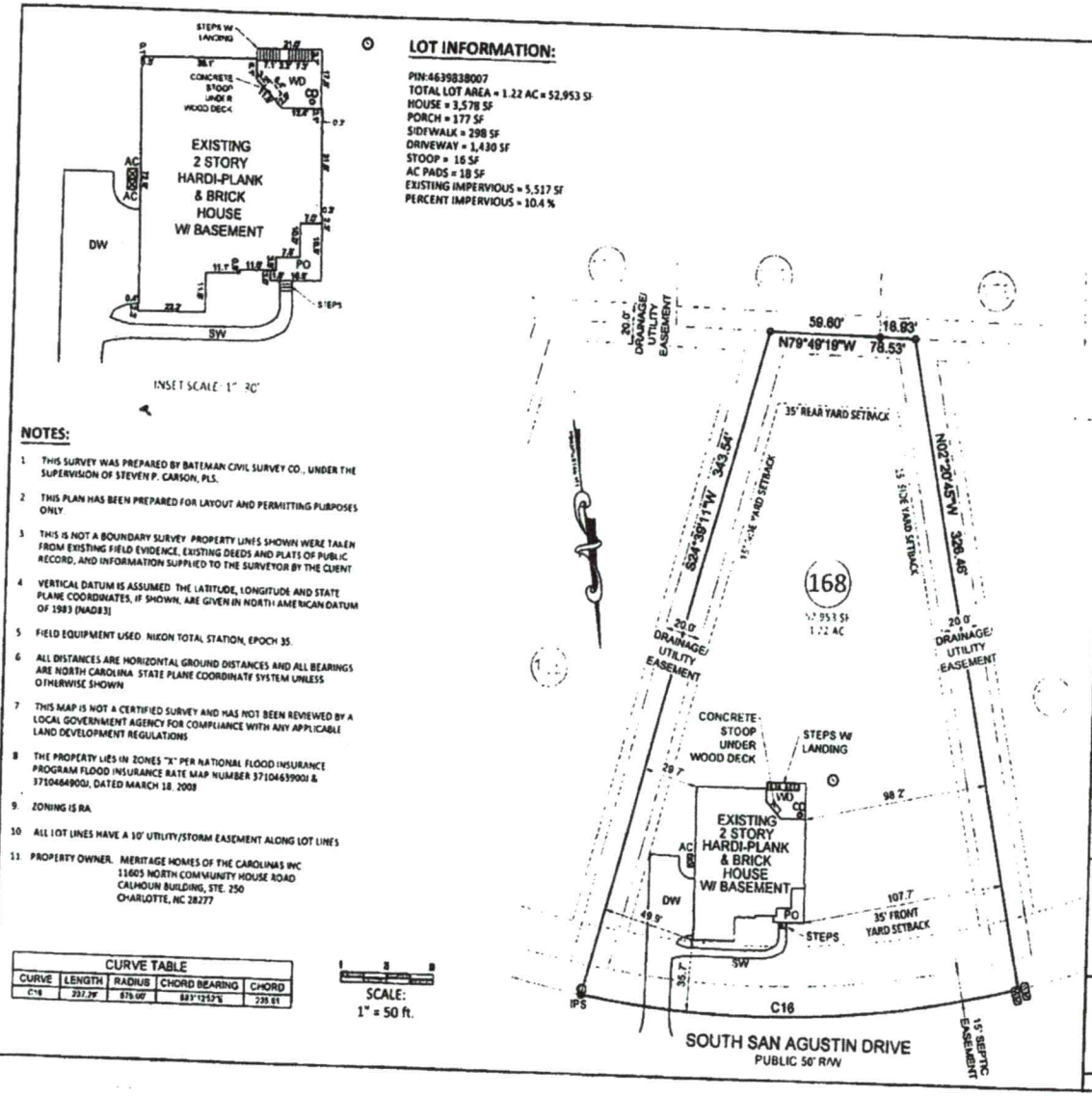
- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

_____ 2/11/26
Signature of Owner(s) Date

Mooresville - Environmental Health
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677


STEPS W/ LANDING
CONCRETE STOOP UNDER WOOD DECK
WD
EXISTING 2 STORY HARDI-PLANK & BRICK HOUSE W/ BASEMENT
AC
DW
PO
STEPS
SW
INSET SCALE: 1" = 20'
LOT INFORMATION:
PIN:4639838007
TOTAL LOT AREA = 1.22 AC = 52,953 SF
HOUSE = 3,578 SF
PORCH = 177 SF
SIDEWALK = 298 SF
DRIVEWAY = 1,430 SF
STOOP = 16 SF
AC PADS = 18 SF
EXISTING IMPERVIOUS = 5,517 SF
PERCENT IMPERVIOUS = 10.4 %
20.0' DRAINAGE/ UTILITY EASEMENT
59.80'
N79°49'19"W
18.93'
78.53'
35' REAR YARD SETBACK
S24°39'11"W 343.54'
N10°20'45"W 326.49'
15' SIDE YARD SETBACK
168
52,953 SF
1.22 AC
CONCRETE STOOP UNDER WOOD DECK
STEPS W/ LANDING
98.2'
107.7'
35' FRONT YARD SETBACK
49.9'
35.7'
C16
IPS
SOUTH SAN AGUSTIN DRIVE
PUBLIC 50' R/W
15' SEWER EASEMENT
NOTES:
1 THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
2 THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3 THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
4 VERTICAL DATUM IS ASSUMED. THE LATITUDE, LONGITUDE AND STATE PLANE COORDINATES, IF SHOWN, ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (NAD83)
5 FIELD EQUIPMENT USED: NIKON TOTAL STATION, EPOCH 35.
6 ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN
7 THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS
8 THE PROPERTY LIES IN ZONES "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 3710463900J & 3710464900J, DATED MARCH 18, 2008
9. ZONING IS RA
10 ALL LOT LINES HAVE A 10' UTILITY/STORM EASEMENT ALONG LOT LINES
11. PROPERTY OWNER: MERITAGE HOMES OF THE CAROLINAS INC
11605 NORTH COMMUNITY HOUSE ROAD
CALHOUN BUILDING, STE. 250
CHARLOTTE, NC 28277
CURVE TABLE
CURVE | LENGTH | RADIUS | CHORD BEARING | CHORD
C16 | 237.39' | 875.00' | S83°12'52"E | 236.69'
SCALE: 1" = 50 ft.
Bateman Civil Survey Company
Engineers • Surveyors • Planners
BELFRY LOOP
SITE
ABBEVILLE LN
SAN AGUSTIN DR
PERTH RD
CAMPANILE DR
VICINITY MAP
LEGEND
PO = PORCH
CP = COVERED PORCH
P = CONCRETE PATH
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY
= COMPUTED POINT
= IRON PIPE FOUND
= IRON PIPE SET (IPS)
= DRILL HOLE FOUND
= WATER METER
CO = CLEAN OUT
AC = AIR CONDITIONER
= SEWER MANHOLE
= ELECTRIC BOX
= CABLE BOX
= TELEPHONE PEDESTAL
CI = CURB INLET
SP = SCREENED PORCH
= LIGHT POLE
BUILDING SETBACKS
FRONT - 35 ft
SIDE - 15 ft
REAR - 35 ft
SIDE STREET - 25 ft
LAKE BUFFER - 50ft
I hereby certify that this map is correct and that the building lies wholly on the lot and that there are no visible encroachments on said lot.
Steven P. Carson, PLS 4752
Date
This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.
FINAL SURVEY
FOR
Meritage Homes
BELLS CROSSING - PHASE FOUR - LOT 168
249 SOUTH SAN AGUSTIN DRIVE, MOORESVILLE, NC
DAVIDSON TOWNSHIP, IREDELL COUNTY
DATE: 8/29/19 DRAWN BY: NMW CHECKED BY: SPC
REF: PB 63, PGS 146-151 BCS# 120314 SCALE: 1" = 50'