

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED

PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR INTENDED USE CHANGED

OPERATIONS PERMIT

PERMIT # WRP-055592-2021

APPLICATION DATE: 03/15/2021

BLDG. PERMIT#: RBPR-055590-2021

PIN: 1860541210

RECORDED: Yes

TOWNSHIP: 19 - Wake Forest

JURISDICTION: Wake County

ZONING: R-40W

APPLICANT: Russin Homes, LLC
Jeremy Russin
10816 Bedfordtown DR

BUSINESS PHONE: (919) 520-7342

HOME PHONE:

MOBILE PHONE:

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE

EXISTING USE:

SITE ADDRESS: 6504 PRESCOTT SHORE DR

SUBDIVISION: Prescott

LOT: 18

ACRES: 0.97

DIRECTIONS: Route 98 East, Turn Right on Averette Road, Turn Left on Old Pearce Road, Turn left on Prescott Shore Drive (Lot 18 is 2nd lot on right)

Systems defined as either type III-b, III-g with a pump, IV, V or VI, in accordance with the North Carolina administrative code 15A NCAC 18a .1961, table V as adopted by reference in the "Regulations Governing Wastewater Treatment Dispersal Systems in Wake County", requires Wake County Environmental Services to conduct periodic inspections of the system type pursuant to 15A NCAC 18a. 1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. This permit is based in part on information provided by the homeowner and/or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The environmental health specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him/her in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

OPERATION PERMIT VALID FOR: No Expiration

INSTALLED BY: BRANTLEY, CORY - 1036 - IV

PROPRIETARY SYSTEM: EZ1203HG - EZFlow EZ 1203H Geo **PRETREATMENT SYSTEM:**

SYSTEM TYPE INSTALLED: III B

OPERATION PERMIT: STATUS: Issued

ISSUED BY: Andrew Thore

ISSUED DATE: 10/18/2021

SEPTIC TANK: David Brantley & Sons - STB-323 - 1250 gallons **DATE OF MANUFACTURE:** 08/16/2021 **FILTER:** GAG SIM/TECH - STF-110

GREASE TRAP:

DATE OF MANUFACTURE:

FILTER:

DOSING PUMP TANK: Brantley - PT-2124 - 1312 gal - 21.5 gal/in **DATE OF MANUFACTURE:** 06/19/2021 **FILTER:**

CC1: 999,807

ETM1: 36

CC2:

ETM2:

RECIRCULATION TANK:

DATE OF MANUFACTURE:

CC1:

ETM1:

CC2:

ETM2:

SEPTIC TANK ELEVATION: 10.70

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION: 11.00

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 1

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
26	12	65	10.3
26	12	90	9.7
26	12	70	8
26	12	55	5.2
26	12	55	4.3

ACTUAL PRESSURE HEAD: 2

ACTUAL FLOW RATE: 29

ACTUAL DOSE VOLUME: 151

SPECIFIC OPERATION REQUIREMENTS:

- System designed for 4 bedroom home, having 360 gallons per day. (engineer flow reduction)
- Site serviced by community well water.
- Pump used is a Champion 30.
- ASDSMS: Book- 018775 , Page- 01932-01933

ISSUED BY:



DATE: 10/18/2021

RUSSIN HOMES

NOTES:
-THIS PLAN DOES NOT REFLECT AN ACTUAL SURVEY. IT IS A PRELIMINARY PLAN AND SHOULD BE USED FOR ITS INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES, OR SALES.

WAKE COUNTY, NC 14
TAMMY L. BRUNNER
REGISTER OF DEEDS
PRESENTED & RECORDED ON
01/10/2022 09:39:44

BOOK:018875 PAGE:01932 - 01933

ALTERNATIVE SEWAGE DISPOSAL SYSTEM MAINTENANCE SCHEDULE

To Be Recorded In The Register Of Deed's Office In Wake County.

Owner/Grantor RUSSIN HOMES, LLC Deedbook and Page 017797, pg 00193 - 00194
PIN No. # 473869 Date Installed 10-18-2021
Subdivision Name Prescott Lot No. 18
System Designed by Central Carolina Soil Consultants Installer David Brantley & Sons

AN ALTERNATIVE OR NON-TRADITIONAL SEWAGE DISPOSAL SYSTEM USING AN ENGINEER DESIGNED FLOW RATE MODIFICATION PURSUANT TO SESSION LAW 2014-120 SECTION 53 HAS BEEN INSTALLED ON THIS PROPERTY.

The design specifications and locations for alternative sewage disposal systems are specified or authorized in Regulations Governing Wastewater Treatment and Dispersal in Wake County effective November 21, 1988, amended effective May 23, 2002, October 27, 2011 and June 25, 2020.

As A Condition Of Issuance Of This Improvements/Operation Permit, The Property Owner Hereby Grants The Wake County Department Of Environmental Services A Right Of Access To The System During Regular Working Hours For Purposes Of Monitoring Compliance With State And Local Regulations, Recorded Maintenance Agreements And Certified Operator Compliance.

This permit requires the use of pressure manifold distribution to a mode of subsurface wastewater dispersal. Experience and study have shown that pressure manifold systems require routine maintenance in order to function satisfactorily. In as much as each system must be individually designed and sited, special maintenance requirements may apply to a specific installation; however, the following maintenance schedule is applicable to all pressure manifold systems. For additional information, technical assistance or if a malfunction of the system occurs, contact the Wake County Department of Environmental Services, Telephone: 919-856-7400.

System Component	Frequency	Maintenance
1. Septic Tank	6-12 months 1-3 years	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump seepage.
2. Pump/Dosing Tank	6-12 months	Check riser conditions (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
3. Supply lines	6-12 months	Check for settling, pipe exposure and leakage. Includes Manifold(s).
4. Drain Field(s)	1-4 weeks 6-12 months	Maintain vegetative cover (mow grass and remove weeds and brush). Check for settling, erosion and surfacing of effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
5. Pressure Manifold	6-12 months	Check and reset pressure head, flush sludge from pressure manifold (any discharge sludge and effluent is to be treated with a chlorine solution).
6. Sampling	12 Months	Influent and Effluent sampling may be required once per year to ensure adherence to domestic strength wastewater standards.
7. General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over ground absorption field. Practice water conservation to reduce waste water load on system. Do no permit entry or grease and non-domestic waste to system. Use of a garbage disposal is <u>prohibited</u> . Addition of chemical or biological additives has <u>not</u> been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained. <u>Adherence to permitted flow rate.</u>

mail to:

JEREMY RUSSIN
10816 BEDFORDTOWN DR
RALEIGH, NC 27614

This system is permitted under S.L. 2014-120 for engineer flow reduction utilizing low flow fixtures and technologies, all of which must remain in use for the life of the applicable system. Neither the State nor any local government shall be liable for any damages by a system approved or permitted pursuant to this section.

Signature of Property Owner

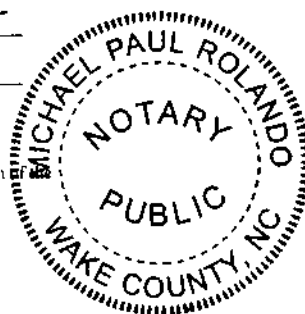
Date

Date

NORTH CAROLINA Wake County, I, a Notary Public of the County and State aforesaid, certify that
Jeremy Russin Owner, Personally appeared before me this day and acknowledged the execution of
foregoing instrument. Witness my hand and official stamp or seal, this 7 day of January, 2022.

My commission expires March 25, 2026 Notary Public and [Signature]

WWDS 02/17





BOOK: 018875 PAGE: 01932 - 01933



Please retain yellow trailer page

It is part of the recorded document and must be submitted with the original for re-recording.

Tammy L. Brunner

Register of Deeds

Wake County Justice Center
300 South Salisbury Street, Suite 1700
Raleigh, NC 27601

☐ New Time Stamp

☐ \$25 Non-Standard Fee

☐ Additional Document Fee

☐ Additional Reference Fee

This Customer Group

_____ # of Excessive Entities

_____ # of Time Stamps Needed

This Document

_____ 2 # of Pages *f*



TEL 919 856 7400
FAX 919 856 7407

Environmental Services

Water Quality Division
336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602

5/13/2021

REQUIREMENTS TO COMPLETE YOUR ENGINEERED FLOW REDUCTION SYSTEM

NAME: Russin Homes, LLC
ADDRESS: 10816 Bedfordtown DR, Raleigh, NC 27614
Re: Application for Engineered Flow Reduction System
SEPTIC PERMIT: WRP-055592-2021
PIN: 1860 54 1210
Building Permit: RBPR-055590-2021
Property Info: Prescott LOT: 18 ACRES: 0.97

Dear Sir/Madam:

Enclosed is your approved Engineer Flow Reduction plan as permitted under Session Law 2014-120 Section 53, and the "Engineer Flow Reduction Sewage Disposal System Maintenance Information Sheet". **"Neither the State nor local health department shall be liable for any damages caused by an engineered system approved or permitted pursuant to Session Law 2014-120 Section 53."**

To complete your permit:

- **System Installation** - A contractor **CERTIFIED** by the State of North Carolina and **REGISTERED** in Wake County, must be used to install your system, if applicable.
- **System Components** - All portions of the engineered design plans shall be completed using only materials specified in the engineered design plans.
- **Engineer Certification** - The engineer must certify that the design plans have been completed to the specifications in the approved design and provide an engineer certification letter to Wake County that is SEALED, SIGNED, AND DATED stating as much.
- **Alternative Sewage Disposal System Maintenance Schedule** - this document must be signed, notarized and recorded at the Wake County Register of Deeds Office. A copy of the recorded document must be submitted to Wake County before your permit can be finalized.

A copy of the "Wake County Well and Septic System Owner's Guide", which contain information essential to the long-term performance of this wastewater disposal system, must be forwarded to the owner or user of the system, if other than yourself.

ANY PROPOSED MODIFICATION TO THE APPROVED PLANS MUST BE COORDINATED WITH YOUR DESIGN ENGINEER.

Please call (919) 480-9998 or email at CORY.LARSEN@wakegov.com if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Cory Larsen".

CORY LARSEN, PE
Environmental Consultant

***** CA PART A - E *****

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

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PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR INTENDED USE CHANGED

CONSTRUCTION AUTHORIZATION PERMIT

PERMIT # WRP-055592-2021

APPLICATION DATE: 03/15/2021

BLDG. PERMIT#: RBPR-055590-2021

PIN: 1860541210

RECORDED: Yes

TOWNSHIP: 19 - Wake Forest

JURISDICTION: Wake County

ZONING: R-40W

APPLICANT: Russin Homes, LLC
10816 Bedfordtown DR
Raleigh, NC 27614

BUSINESS PHONE: (919) 520-7342

HOME PHONE:

MOBILE PHONE:

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE

EXISTING USE:

SITE ADDRESS: 6504 PRESCOTT SHORE DR

SUBDIVISION: Prescott

LOT: 18

ACRES: 0.97

DIRECTIONS: Route 98 East, Turn Right on Averette Road, Turn Left on Old Pearce Road, Turn left on Prescott Shore Drive (Lot 18 is 2nd lot on right)

Contractors shall install system on contour. See attached SITE PLAN for wastewater system design and well location. No underground utilities, water lines or sprinklers systems may be located in the original system, or permit areas. A septic tank filter with two risers for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and Operations Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrifications line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

CONSTRUCTION AUTHORIZATION PERMIT VALID FOR: Five Years

CONSTRUCTION AUTHORIZATION PERMIT: CA STATUS: Issued

BY: Cory Larsen

DATE: 05/12/2021

CA VALID FOR: Five Years

DESIGN FLOW: 360 GALLONS

BASEMENT:

BASEMENT FIXTURES: No

SEPTIC TANK: 1200 GALLONS

SEPTIC TANK FILTER: Yes

DOSING PUMP TANK: 1200 GALLONS

DOSING PUMP TANK FILTER:

GREASE TRAP:

GREASE TRAP FILTER:

RECIRCULATION PUMP TANK:

RECIRCULATION PUMP TANK FILTER:

PROPOSED SYSTEM: 0.25 - 25% Reduction (Innovative or Accepted)

EXISTING SYSTEM: No

DRAINFIELD SQ. FT: 905

AGGREGATE DEPTH: 12

MAX. TRENCH DEPTH: 26 INCHES

DISTRIBUTION DEVICE: PM - Pressure Manifold

TRENCH #: 5

TRENCH LENGTH: 55 55 70 90 **TRENCH WIDTH:** 36 INCHES **TOTAL TRENCH LENGTH:** 335 FEET
65 FEET

CENTER SPACING: 9 FEET
PRETREATMENT:
SUBFIELDS #:
PUMP TDH: 21.26 FEET

MINIMUM SOIL COVER: 6 INCHES
APPROVAL #:
PUMP DESIGN FLOW: 30.66
ZONE VALVE: No

ASDMS REQUIRED: Yes

LINE OF CREDIT REQUIRED: No

OPERATOR REQUIRED: No

P.E. SIGN OFF/ASBUILT REQUIRED: Yes

TRIPARTY AGREEMENT REQUIRED: No

SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:

THIS PERMIT IS FOR FOUR (4) BEDROOM DWELLING WITH 360 GALLONS DAILY FLOW USING ENGINEERED FLOW REDUCTION. INITIAL SYSTEM IS AN UNEQUAL LINE LENGTH PRESSURE MANIFOLD SYSTEM PUMP TO 5 DRAINLINES WITH 26" TRENCH BOTTOM. REPAIR SYSTEM IS AN UNEQUAL LINE LENGTH PRESSURE MANIFOLD WITH 22" TRENCH BOTTOM. 1200 GALLON SEPTIC TANK AND 1200 GALLON PUMP TANK REQUIRED. FOUNDATION DRAINS ALLOWED. WHEN INSTALLING SYSTEM, PLEASE MAINTAIN ALL REQUIRED SETBACKS. DO NOT DISTURB OR REMOVE ANY SOIL IN INITIAL OR REPAIR AREAS. MUST MAINTAIN REQUIRED EMERGENCY STORAGE IN PUMP TANK. A NEMA 4X CONTROL PANEL WITH TWO BREAKERS, TWO POWER SUPPLIES, ELAPSED TIME METER AND CYCLE COUNTER IS REQUIRED. IF FLAGS ARE MISSING, CALL DESIGNER TO RE-FLAG. THIS SYSTEM IS DESIGNED BY A ENGINEER AND MUST BE INSTALLED PER THE DESIGN, INCLUDING THE USE OF THE MATERIALS SPECIFIED IN THE DESIGN. ANY DEVIATION MUST BE APPROVED BY THE DESIGNER OR WAKE COUNTY ENVIRONMENTAL SERVICES PRIOR TO SYSTEM INSTALLATION.

NEITHER THE STATE NOR LOCAL HEALTH DEPARTMENT SHALL BE LIABLE FOR ANY DAMAGES CAUSED BY AN ENGINEERED SYSTEM APPROVED OR PERMITTED PURSUANT TO SESSION LAW 2014-120 SECTION 53. ALTERNATIVE SEWAGE DISPOSAL SYSTEM MAINTENANCE SCHEDULE MUST BE SIGNED, NOTARIZED AND RECORDED AT THE WAKE COUNTY REGISTER OF DEEDS OFFICE. ENGINEER CERTIFICATION OF REQUIRED FIXTURE INSTALLATION ARE REQUIRED PRIOR TO ISSUANCE OF 4 BEDROOM OPERATION PERMIT. PLEASE CONTACT ENVIRONMENTAL SERVICES IF ANY QUESTIONS OR PROBLEMS ARISE PRIOR TO INSTALLATION.

Issued By:



Date: 05/12/2021

HOMEOWNER GUIDE FOR UTILIZATION AND MAINTENANCE OF ON-SITE WASTEWATER DISPOSAL SYSTEMS

What is an On-site Wastewater Disposal System?

There are a number of different types of on-site wastewater disposal systems each designed for a specific set of site conditions. However, there are several system components that are common to most systems. These include the following:

1. A septic tank - a concrete tank that is designed to receive wastewater from the house and to provide a degree of pretreatment for the waste, chiefly through removal of some of the solids in the waste. Note that these solids accumulate over time and necessitate periodic pumping of the septic tank. Currently septic tanks are equipped with two access risers (normally constructed of concrete), which are designed to be at least 6 inches above the ground surface to prevent surface and shallow groundwater from entering the septic tank and to provide access for maintenance. **Care must be taken not to damage or cover these risers so that water inflow / infiltration can be prevented and the tank can be accessed for maintenance.**
2. In some installations, a pump tank - a concrete tank, very similar to the septic tank, which contains a pump along with the associated controls / componentry. The pump tank and pump is designed to receive effluent from the septic tank, and pump the effluent to a disposal field located at a higher elevation and/or to a pressurized distribution network in the disposal field. **The pump tank also has an access riser which must be protected in a similar manner to that indicated for the septic tank.** Servicing of the pump tank components often necessitates the assistance of a professional such as a septic tank installer or Certified Subsurface System Operator. The latter is required for operation and maintenance of certain types of systems.
3. A disposal field - a series of subsurface trenches and lines that are designed to distribute the effluent into the soil and provide for the ultimate treatment and disposal of the effluent. There are numerous variations on the design of the disposal field, related chiefly to the type of system chosen, site constraints, etc. Dependent on the type of disposal system, you may have to maintain a contract with a Certified Subsurface System Operator for operation and maintenance of your wastewater disposal system.

Utilization of Your Wastewater Disposal System

In order to obtain the maximum efficiency and life expectancy from your system, the following simple procedures must be adhered to:

1. **Practice water conservation.** This can include many practical considerations such as not leaving the water running while you brush your teeth, not overfilling the tub, limiting time in the shower, not replacing low flow fixtures with those of higher flows, over rinsing dishes (allow the dishwasher to do its job), immediate repair of any leaking fixtures, running washing machines and dishwashers only when full, etc.

NOTE: Washing machines generate significant volumes of wastewater. As a result, laundry activities should be spread over the week as opposed to accumulating all of laundry until the weekend.

2. **Do not utilize your wastewater disposal system as a trash can by dumping nondegradables down your drains or toilet.** These include cigarette butts, sanitary products, grease, plastics, disposable diapers, etc. Avoid use of garbage disposals. Do not retrofit garbage disposals unless the system is specifically permitted for their use. Also, do not dump harmful chemicals down the drain. These include petroleum products, paint, paint thinner, pesticides, antifreeze, etc.

Maintenance of Your Wastewater Disposal System

Every wastewater disposal system requires maintenance in order to function properly. The specific maintenance required is related to the type of system. The following are general considerations that apply to all systems.

1. **Protect your wastewater disposal system components including the tanks, access risers, disposal field and associated components.** Do not drive or park on any portion of the system. The area over the disposal field should be left undisturbed with the grass cover being maintained as you would your lawn. Location of trees and shrubs on or in close proximity to the disposal field is not recommended since roots may clog or damage your drain lines. Additionally, great care must be exercised when considering the addition of any structure(s) to the site. The location of any appurtenances cannot encroach on the installation or repair areas for your system. It is not recommended that irrigation systems be located in proximity to the disposal system since their construction can cause system damage and/or result in additional hydraulic load on the disposal field.
2. **Protect the system from excess surface and shallow groundwater.** The land surface on and around the wastewater disposal system should be landscaped to shed rainfall and runoff and prevent ponding. Be sure that foundation drains, runoff from roofs and drives, etc. are diverted away from the disposal system.
3. **Regularly have the septic tank / pump tank pumped and cleaned by a permitted septage hauler.** Although the necessary frequency of pumping varies with the household and system, most tanks need **pumping at a frequency of 3-5 years** and at any time solids occupy one-fourth to one-third of the septic tank liquid depth.

Note that all septic tanks being currently installed incorporate an effluent filter within the outlet compartment of the septic tank. This filter is to be cleaned anytime the septic tank is pumped. If plumbing becomes sluggish, this filter should be checked. If filter service is found to be necessary, the tank is to be pumped, the filter cleaned and the filter reinstalled.

4. **Be alert to warning signs that your system may not be functioning properly.**
These include sewage surfacing over the disposal system, sewage backups / slow draining in the house, lush growth over the disposal system, sewage odors, etc.
5. **Do not make or allow repairs to your system unless all necessary permits are obtained from Wake County Department of Environmental Services.**
6. **Commercial additives for septic tank systems** - It has generally not been demonstrated that these additives enhance the function of septic systems or reduce the need for tank pumping and other necessary maintenance.
7. **Special maintenance considerations** - As already alluded to, some of the more complex wastewater disposal systems require that you retain / maintain the services of a Certified Wastewater System Operator in order to comply with Laws and Rules and maintain a valid operation permit for your system. In Wake County this maintenance requirement should be recorded with Register of Deeds if applicable.

Where Do I Obtain Information and Assistance?

If you are purchasing a new home, you should request a copy of your wastewater system permit from the builder / seller along with information regarding any special maintenance requirements. You may also obtain information and assistance from the **Wake County Department of Environmental Services**, 336 Fayetteville Street Mall, Raleigh, NC, Telephone (919) 856-7400. Additional information is also available on Wake County's [Septic and Wastewater Management](#) webpage.

BSM 3/9/21



Environmental Services

TEL 919 856 7400
FAX 919 743 4772

Water Quality Division
336 Fayetteville Street • Raleigh, NC 27602
www.wakegov.com

PRESSURE MANIFOLD SYSTEMS

A Pressure Manifold System is one of several types of septic systems approved for use in Wake County. The Pressure Manifold System, while somewhat more expensive to install, is a flexible and high-quality method of wastewater disposal. A pump doses a pressure distribution manifold that disperses the effluent evenly to each trench. Dosed systems are more common for larger flows. The manifold can be constructed with different size taps to accommodate different trench lengths. This allows for better utilization of the area on the lot. The pressure manifold can include valves or plugs that permit more control over trench loading or trench resting.

Experience and study have shown that pressure manifold systems require routine maintenance in order to function properly. Items 1, 4 and 6 are also recommended for conventional septic systems. The maintenance schedule frequency is as follows:

<u>System Component</u>	<u>Frequency</u>	<u>Maintenance</u>
1. Septic Tank	6-12 months 1-3 years	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Check and clean septic tank filter. Pump septage when 1/3 to 1/4 of the liquid capacity of the tank is occupied by solids.
2. Pump or Dosing Tank	6-12 months	Check riser conditions (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
3. Supply lines (Manifold)	6-12 months	Check for settling, pipe exposure and leakage.
4. Ground Absorption Field	1-4 weeks 6-12 months	Maintain vegetative cover (mow grass and remove weeds and brush). Check for settling, erosion and surfacing of effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
5. Pressure Manifold	6-12 months	Flush sludge from pressure manifold (any discharge sludge and effluent is to be treated with a chlorine solution). Check and reset pressure head.
6. General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over ground absorption field. Practice water conservation to reduce wastewater load on system. Do not permit entry of grease and non-domestic waste to system. Use of a garbage disposal is <u>prohibited</u> . Addition of chemical or biological additives has <u>not</u> been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained.

A certified operator may be required.

ALTERNATIVE SEWAGE DISPOSAL SYSTEM MAINTENANCE SCHEDULE

To Be Recorded In The Register Of Deed's Office In Wake County.

Owner/Grantor

Deedbook and Page

PIN No.

Date Installed

Subdivision Name

Lot No.

System Designed by

Installer

AN ALTERNATIVE OR NON-TRADITIONAL SEWAGE DISPOSAL SYSTEM USING AN ENGINEER DESIGNED FLOW RATE MODIFICATION PURSUANT TO SESSION LAW 2014-120 SECTION 53 HAS BEEN INSTALLED ON THIS PROPERTY. The design specifications and locations for alternative sewage disposal systems are specified or authorized in Regulations Governing Wastewater Treatment and Dispersal in Wake County effective November 21, 1988, amended effective May 23, 2002, October 27, 2011 and June 25, 2020. As A Condition Of Issuance Of This Improvements/Operation Permit, The Property Owner Hereby Grants The Wake County Department Of Environmental Services A Right Of Access To The System During Regular Working Hours For Purposes Of Monitoring Compliance With State And Local Regulations, Recorded Maintenance Agreements And Certified Operator Compliance. This permit requires the use of **pressure manifold distribution to a mode of subsurface wastewater dispersal**. Experience and study have shown that pressure manifold systems require routine maintenance in order to function satisfactorily. In as much as each system must be individually designed and sited, special maintenance requirements may apply to a specific installation; however, the following maintenance schedule is applicable to all pressure manifold systems. For additional information, technical assistance or if a malfunction of the system occurs, contact the Wake County Department of Environmental Services, Telephone: 919-856-7400.

<u>System Component</u>	<u>Frequency</u>	<u>Maintenance</u>
1. Septic Tank	6-12 months	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation.
	1-3 years	Pump septage.
2. Pump/Dosing Tank	6-12 months	Check riser conditions (must be accessible from ground surface),excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
3. Supply lines	6-12 months	Check for settling, pipe exposure and leakage. Includes Manifold(s).
4. Drain Field(s)	1-4 weeks	Maintain vegetative cover (mow grass and remove weeds and brush).
	6-12 months	Check for settling, erosion and surfacing of effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
5. Pressure Manifold	6-12 months	Check and reset pressure head, flush sludge from pressure manifold (any discharge sludge and effluent is to be treated with a chlorine solution).
6. Sampling	12 Months	Influent and Effluent sampling may be required once per year to ensure adhearance to domestic strength wastewater standards.
7. General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over ground absorption field. Practice water conservation to reduce waste water load on system. Do no permit entry or grease and non-domestic waste to system. Use of a garbage disposal is <u>prohibited</u> . Addition of chemical or biological additives has <u>not</u> been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained. <u>Adherence to permitted flow rate.</u>

This system is permitted under S.L. 2014-120 for engineer flow reduction utilizing low flow fixtures and technologies, all of which must remain in use for the life of the applicable system. Neither the State nor any local government shall be liable for any damages by a system approved or permitted pursuant to this section.

Signature of Property Owner

Date

NORTH CAROLINA _____ County. I, a Notary Public of the County and State aforesaid, certify that _____ Owner, Personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this ____ day of _____ 20 ____.

My commission expires _____ Notary Public _____

PRELIMINARY PLOT PLAN FOR

RUSSIN HOMES

LOT 18, PRESCOTT SUBDIVISION

6504 PRESCOTT SHORE DRIVE

REF: B.M. 2020, PG 248-255

WAKE FOREST TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

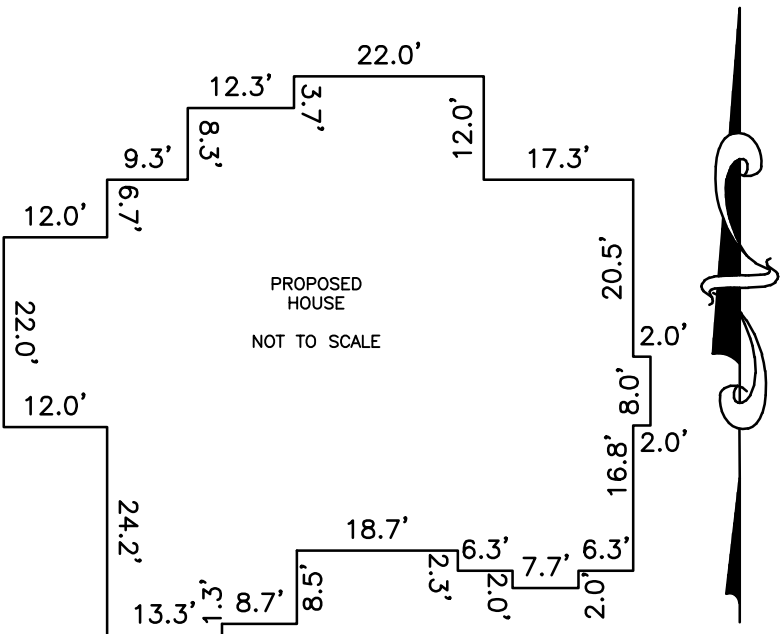
MARCH 25, 2020

REVISED MARCH 31, 2020

REVISED MAY 13, 2020

REVISED MARCH 15, 2021

ZONED R-40W



SCALE 1"=60'

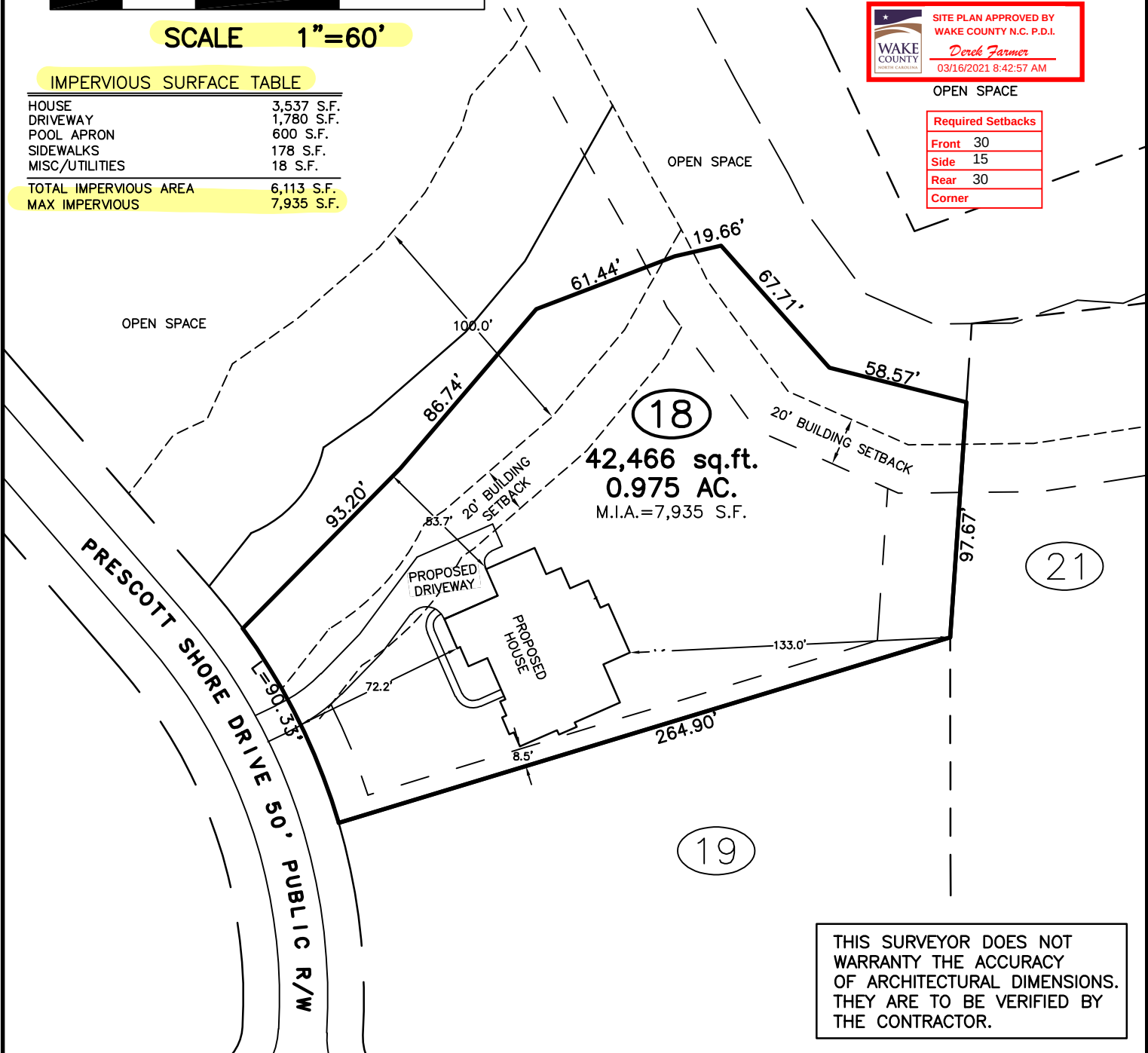
055590-2021



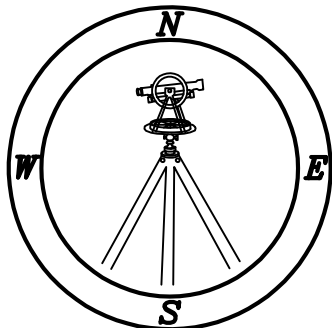
IMPERVIOUS SURFACE TABLE	
HOUSE	3,537 S.F.
DRIVEWAY	1,780 S.F.
POOL APRON	600 S.F.
SIDEWALKS	178 S.F.
MISC/UTILITIES	18 S.F.
TOTAL IMPERVIOUS AREA	6,113 S.F.
MAX IMPERVIOUS	7,935 S.F.

OPEN SPACE

Required Setbacks	
Front	30
Side	15
Rear	30
Corner	



THIS SURVEYOR DOES NOT
WARRANT THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.



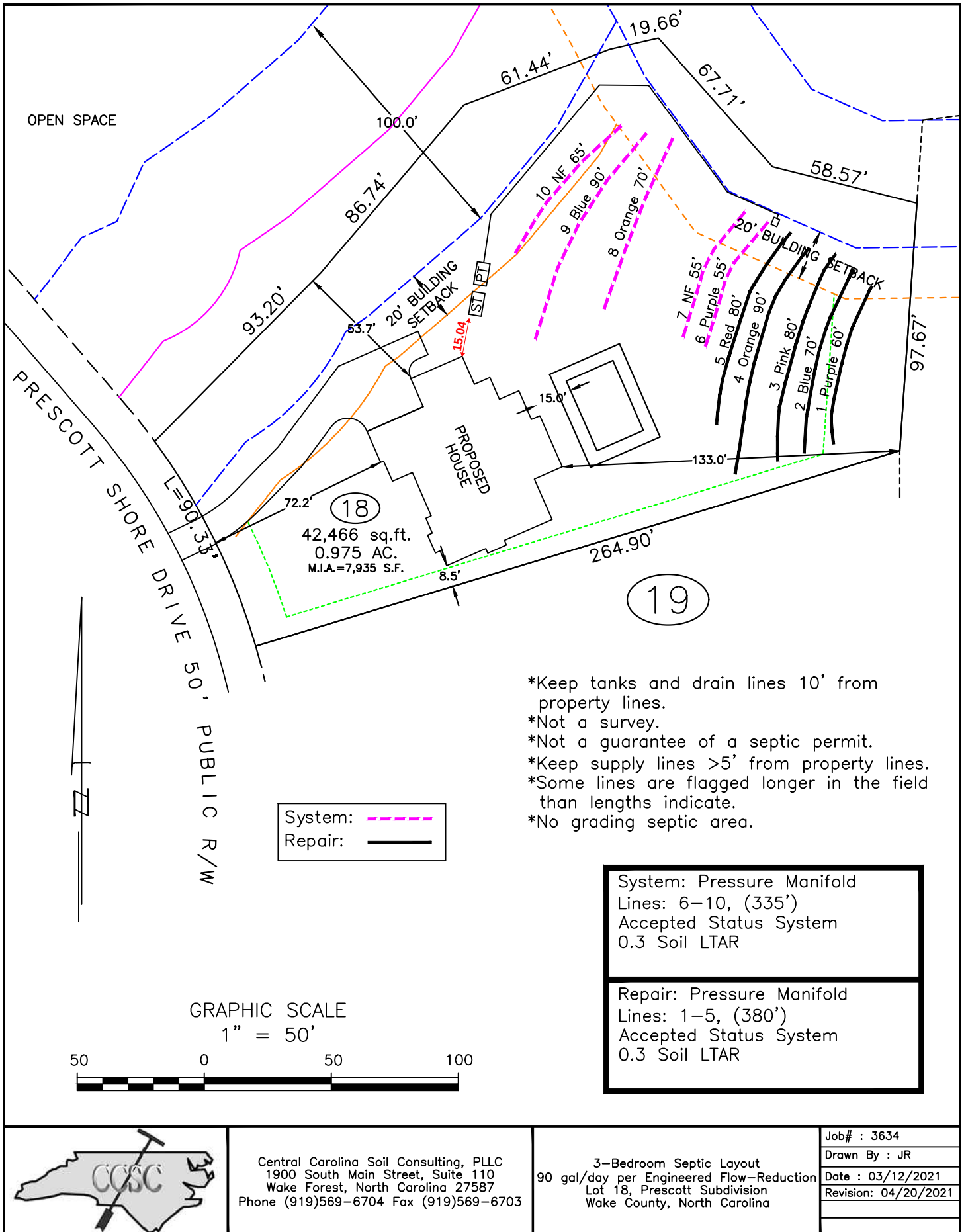
CAWTHORNE, MOSS
& PANCIERA, P.C.

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:
-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES,
OR SALES.

CA PART B



CA PART C



Environmental Services

TEL 919 856 7400
FAX 919 856 7407

Water Quality Division
336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602
www.wakegov.com/water/

Application Revision Form

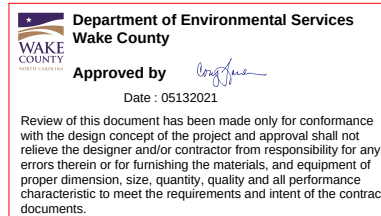
Wastewater Permit: WRP-055592-2021 **Building Permit:** RBPR-055590-2021

Parcel PIN: 1860541210

- ☐ Change Number of Bedrooms from 3 to 4
- ☐ Change Applicants Name to _____
Must have account in permit portal
- ☐ Change Number of Employees _____
- ☐ Change Basement: Circle one: Yes No Partial (Demonstrate location on attached site plan)
- ☐ Change project Address _____
- ☐ Other _____

Applicant Signature:  **Date:** May 11, 2021

CA PART D



Pressure Manifold Septic System Design

for

Prescott S/D, Lot 18
Wake County, North Carolina

Designed by:

James Rice
Central Carolina Soil Consulting, PLLC
Wake Forest, North Carolina

05/04/2021

Prescott S/D, Lot 18
Table of Contents

Cover Sheet	1
Table of Contents	2
Contact Information	3
Specifications (system)	4
Tap Charts (System and Repair)	5
Site Plan (System and Repair).....	6
Control Panel Specifications	7-8
Pump Specifications	9-10
Effluent Filter Specifications	11-12
Brantley 1,250 Gallon ST 323 Diagram.....	13
Brantley 1,200 Gallon PT 463 Diagram.....	14
Septic and Pump Tank Details.....	15
Pressure Manifold and Trench Details.....	16
Supply Line Hydraulic Profile	17

Prescott S/D, Lot 18
Contact Information

Client:
Attn:
Street Address:

Phone:
Fax:

Designer: Central Carolina Soil Consulting, PLLC
Attn: Jason Hall
Designed By: James Rice
Street Address: 1900 Main Street Suite 110
Wake Forest, NC 27587
Office Phone: 919-569-6704
Cell Phone: 910-740-3226
Fax: 919-569-5703
Email: jrice@centralcarolinasoil.com

Prescott S/D, Lot 18
Layout/Design Specifications

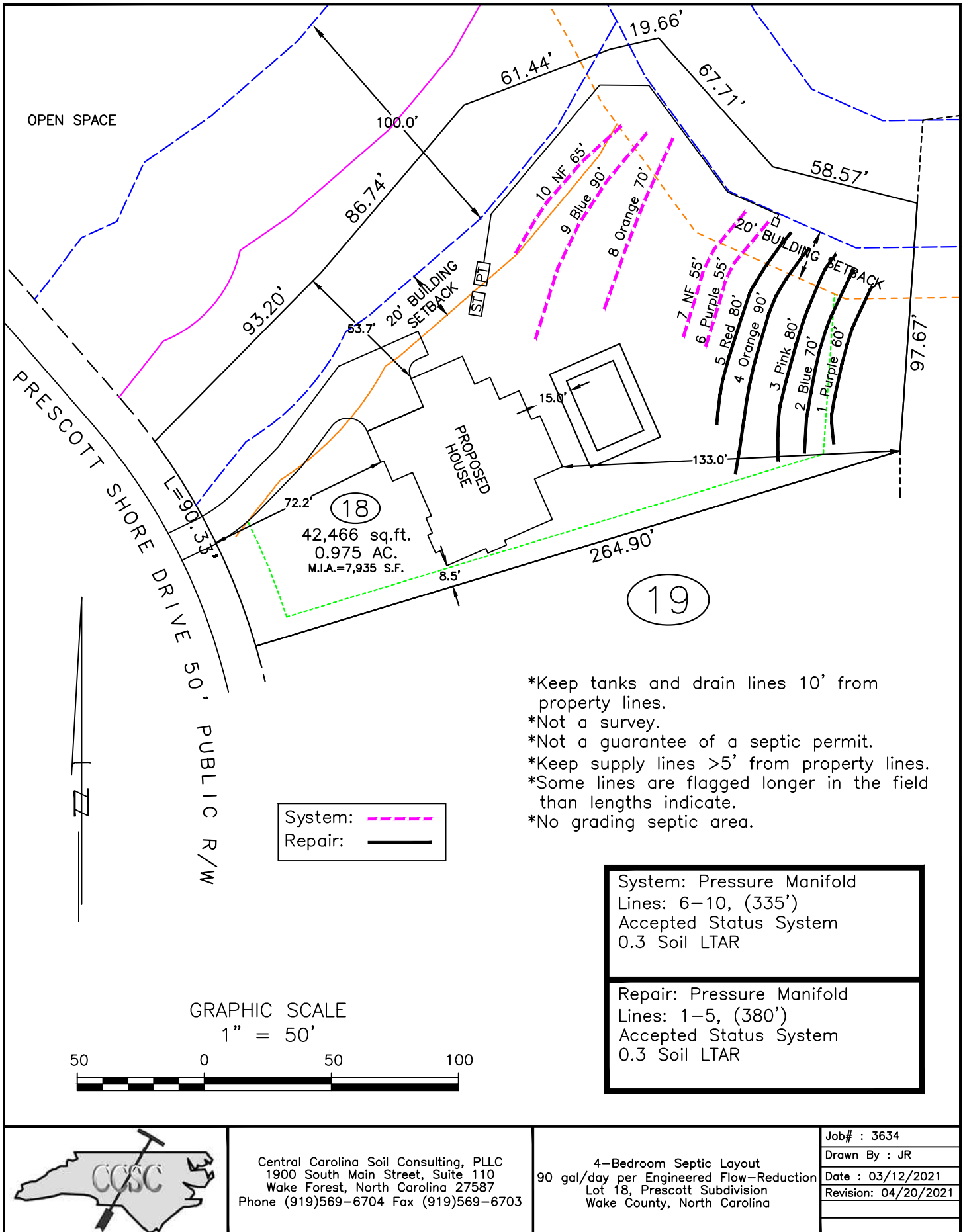
Facility Type:	Single Family Home
# of Bedrooms:	4
Daily Flow:	360 gal/day per engineered flow-reduction
L.T.A.R.:	0.3 gal/day/sq.ft
Trench Depth:	per WCDES in
Trench Width:	36 in
Stone Depth:	EZ-FLOW in
Manifold Length:	48 in
Manifold Diameter:	4 in sch 80pvc
Supply Line Length:	181 ft
Supply Line Diameter:	2 in sch 40pvc
Supply Line Volume:	31.49 gallons
Friction Loss + Fitting Loss:	5.46 ft(supply line length + 70' for fittings in pump tank)
Design Head:	2 ft
Elevation Head:	13.80 ft
Total Head:	21.26 ft
Dose Volume:	154.60 gals
% of Pipe Vol.	.71
Drawdown:	7.87 in @ 19.65 gal/in
Pump Run Time:	5.04 Mins
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)
Pump:	Zoeller M140 Flow-Mate (or approved equivalent)
Septic Tank Effluent Filter:	Zoeller 170-0078 residential effluent filter (or approved equivalent)
Septic Tank:	Brantley 1,250 Gallon ST 323
Pump Tank:	Brantley 1,200 Gallon PT 463

Prescott, Lot 18 TAP CHART

Bench Mark		is = 100.00		Location of BM		Elevation Head			13.80
Pump tank elev.		14.5	85.50	Pump elev.		80.10	Manifold elev.		93.90
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
6	Purple	7.10	92.90	55	1/2in SCH 80	5.48	64.34	165	0.3900
7	NF	7.90	92.10	55	1/2in SCH 80	5.48	64.34	165	0.3900
8	Orange	10.60	89.40	70	1/2in SCH 40	7.11	83.48	210	0.3975
9	Blue	12.30	87.70	90	1/2in SCH 40	7.11	83.48	270	0.3092
10	NF	13.50	86.50	65	1/2in SCH 80	5.48	64.34	195	0.3300
		total	feet =	335	gal/min =	30.66	LTAR =		0.3000
							LTAR + %5		0.3150
% of Dose Vol.		71	Des. Flow		360	(ltar W/ INOV)		0.4000	
Dose Volume		154.60	Pump Run=		11.74	(ltar W/ INOV + 5%)		0.4200	
Dose Pump Time		5.04	Tank Gal/IN		19.65				
Drawdown in Inches		7.87							

Prescott, Lot 18 Repair TAP CHART

Bench Mark		is = 100.00	Location of BM		Elevation Head				17.70
Pump tank elev.		14.5	85.50	Pump elev.	80.10	Manifold elev.			97.80
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Purple	3.20	96.80	60	1/2in SCH 80	5.48	58.16	180	0.3231
2	Blue	3.90	96.10	70	1/2in SCH 40	7.11	75.46	210	0.3593
3	Pink	4.70	95.30	80	1/2in SCH 40	7.11	75.46	240	0.3144
4	Orange	5.70	94.30	90	1/2in SCH 40	7.11	75.46	270	0.2795
5	Red	6.30	93.70	80	1/2in SCH 40	7.11	75.46	240	0.3144
		total	feet =	380	gal/min =	33.92	LTAR =		0.3000
							LTAR + %5		0.3150
% of Dose Vol.		69	Des. Flow		360	(ltar W/ INOV)		0.4000	
Dose Volume		170.43	Pump Run=		10.61	(ltar W/ INOV + 5%)		0.4200	
Dose Pump Time		5.02	Tank Gal/IN		19.65				
Drawdown in Inches		8.67							



- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.

System: Pressure Manifold Lines: 6–10, (335') Accepted Status System 0.3 Soil LTAR
Repair: Pressure Manifold Lines: 1–5, (380') Accepted Status System 0.3 Soil LTAR

GRAPHIC SCALE
1" = 50'



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

4-Bedroom Septic Layout
90 gal/day per Engineered Flow-Reduction
Lot 18, Prescott Subdivision
Wake County, North Carolina

Job# : 3634
Drawn By : JR
Date : 03/12/2021
Revision: 04/20/2021

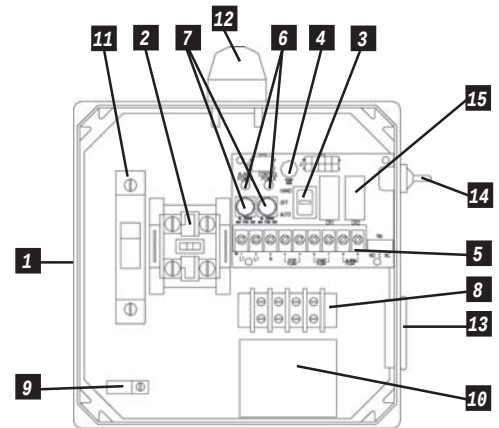
MODEL 112 Control Panel

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.

PANEL COMPONENTS

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 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.



Model Shown 1121W914X

STANDARD ALARM PACKAGE

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 in lieu of horn.
14. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition has been cleared.
15. **Horn Silence Relay** (mounted on circuit board).

NOTE: other options available.

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



SJE
Rhombus
CONTROLS

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

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

112**1****W****1****2****4****H****3A, 8A, 8C, 15A****MODEL 112****ALARMPACKAGE**

0 = select options or no alarm package

1 = alarm package (includes test/normal/silence switch, fuse, red light, horn & float)

ENCLOSURE RATING

I = Indoor, NEMA 1 (metal)

W = Weatherproof, NEMA 4X (engineered thermoplastic)

STARTING DEVICE

1 = magnetic motor contactor 120/208/240V

9 = magnetic motor contactor 120V only

PUMP FULL LOAD AMPS

0 = 0-7 FLA

1 = 7-15 FLA

2 = 15-20 FLA

3 = 20-30 FLA

PUMP DISCONNECTS

0 = no pump disconnect

1 = pull-out with safety deadfront in a 10"x8" enclosure

4 = circuit breaker 120V (select STARTING DEVICE option 9 above)

120/208/240V (select STARTING DEVICE option 1 above)

FLOAT SWITCH APPLICATION

H or L = pump down or pump up

X = no floats

WITH alarm package

WITHOUT alarm package

OPTIONS *Listed below*

ENCLOSURE UPSIZE - If you selected 3 or more of the ★ options, or one ★★ option, a one-time enclosure upsize fee would apply.

If additional features are required, call the factory for a quote on either a SJE-Rhombus Pro-Line or Engineered Custom control panel.**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
- ☐ ★ 3B Manual alarm reset
- ☐ ★ 4A Low level cutout
(select option 4D if floats included)
- ☐ ★ 4B Red low-level indicator & alarm
(must select 4A also)
- ☐ 4D Low-level float
- ☐ ★ 5A Thermal cutout/heat sensor auto
reset (for pumps w/thermal switch leads)
- ☐ ★★ 5E Seal failure circuit & red indicator (2 wire)
- ☐ 6A Auxiliary alarm contact, form C type
- ☒ ★ 8A Elapsed time meter
- ☒ ★ 8C Event (cycle) counter
- ☐ ★★ 9_A Pump overload
specify amperage after number 9 followed by letter "A".
Example: 912A = 12 amp pump.
- ★★ ☐ 0-25 FLA
- ★★ ☐ 25-30 FLA
- ☐ 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*
- ☐ ★★ 14B Main disconnect (rotary style, mounted through door)
non-fused
- ★★ ☐ 0-20 FLA (total of both pumps)
- ★★ ☐ 20-30 FLA (total of both pumps)
- ☒ 15A Control / alarm circuit breaker
Does not include the circuit board as in standard.
- ☐ 16A 10' cord in lieu of 20' (per float)
- ☐ 16B 15' cord in lieu of 20' (per float)
- ☐ 16C 30' cord in lieu of 20' (per float)
- ☐ 16D 40' cord in lieu of 20' (per float)
- ☐ 17A SJE SignalMaster® / mounting strap ● (per float)
- ☐ 17B SJE SignalMaster® / externally weighted ● (per float)
- ☐ 17C Sensor Float® / internally weighted ▲ (per float)
- ☐ 17D Sensor Float® / externally weighted ▲ (per float)
- ☐ 17E Sensor Float® Mini / pipe clamp ▲ (per float)
- ☐ 17F Sensor Float® Mini / externally weighted ▲ (per float)
- ☐ 19T TOA (Test/Off/Automatic) switch and pump run light through
door mounted
- ☐ 19U HOA (Hand/Off/Automatic) switch and pump run light through
door mounted
- ☐ 19X Door mounted pump run indicator
- ☐ 21A SJE PumpMaster® in lieu of on/off switches ●
- ☐ 21B SJE 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**MODEL****112****1****W****9****1****4****H****3A 8A**

Alarm Package

Enclosure Rating

Starting Device

Pump Full Load Amps

Pump Disconnect

Float Switch Application

Options: Flasher, Elapsed Time Meter

"QUALITY PUMPS SINCE 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



ZOELLER
PUMP CO.



SECTION: 2.20.045

FM1502

0701

Supersedes

1200

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SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

visit our web site:
<http://www.zoeller.com>

COMPARE THESE FEATURES

- Durable Cast Iron construction.
- Non-Clogging bronze vortex impeller design, passes 1/2" solids.
- Oil-filled hermetically sealed 1 HP, single phase, 3480 RPM motor, with thermal over load protection.
- Available in both single or double shaft seal designs.
- Carbon/Ceramic seals.
- Assembled with Stainless Steel bolts.
- Oil lubricated bearings.
- 15' UL Listed Neoprene cord with molded plug cap and ground wire.
- 1 1/2" NPT vertical discharge.
- Stainless steel lifting handle.
- BN and BE models include a variable level float switch and 1 1/2" X 2" PVC adapter fitting.
- Operates at temperatures to 130°F - 54°C in effluent or dewatering applications.
- Corrosion resistant powder coated epoxy finish.

Note: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles.

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Louisville, KY 40211-1961
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FAX (502) 774-3624



Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"

140 / 4140 Cast Iron Series

(For Pump Prefix Identification see News & Views 0052)

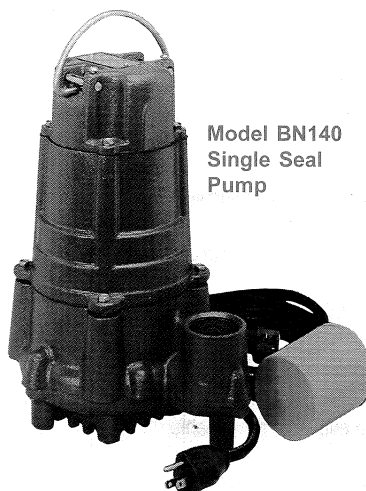
"FLOW-MATE"

FOR SEPTIC TANK - LOW PRESSURE PIPE (LPP)
AND ENHANCED FLOW STEP SYSTEMS

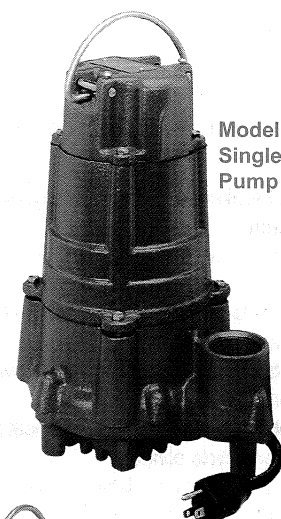
EFFLUENT

OR DEWATERING PUMPS
SUBMERSIBLE

1 1/2" NPT DISCHARGE



Model BN140
Single Seal
Pump



Model 140
Single Seal
Pump

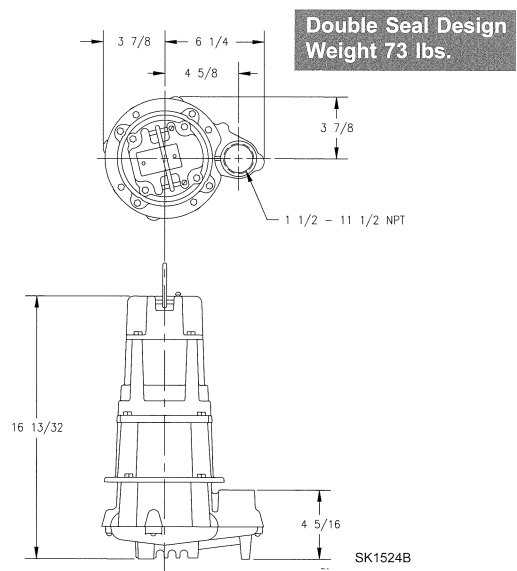
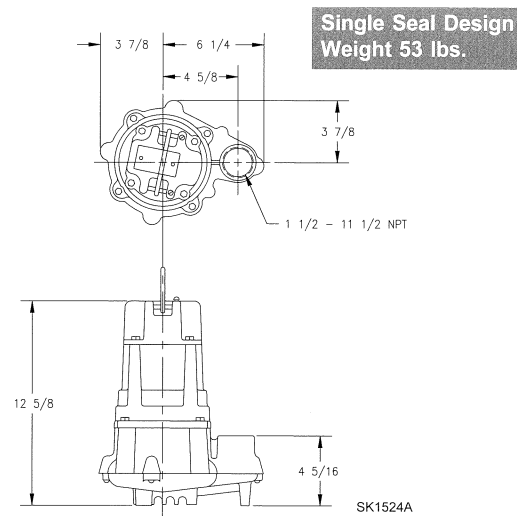
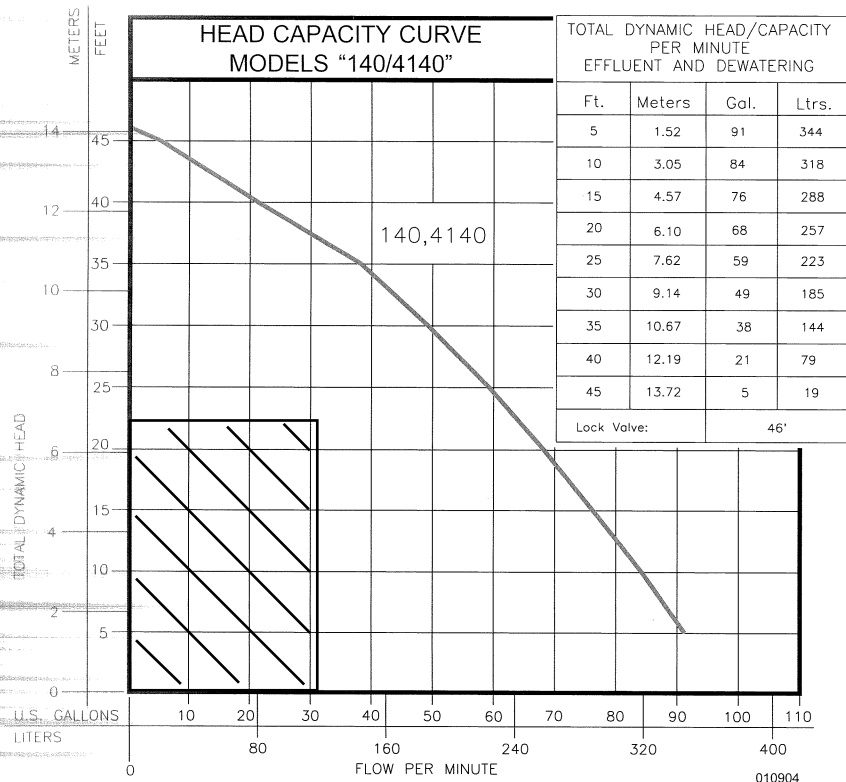


Model 4140
Double Seal
Pump



MODELS AVAILABLE

- Nonautomatic
- 1 HP, 1Ph 115V or 230V



CONSULT FACTORY FOR SPECIAL APPLICATIONS

- Electrical alternators, for duplex systems, are available and supplied with an alarm.
- Mechanical alternators, for duplex systems, are available with or without alarms.
- Control alarm systems are available for 1 phase pumps used in simplex system. See FM0732.
- Variable level control switches are available for controlling single phase systems.
- Double piggyback variable level float switches are available for variable level long cycle controls.
- Sealed Qwik-Box available for outdoor installations. See FM1420.
- Over 130°F. (54°C.) special quotation required.
- Refer to FM0806 for 200° F. applications.

140 Series - 53 lbs. 4140 Series - 73 lbs.

140/4140*** MODELS						Control Selection	
Model	Model	Volts-Ph	Mode	Amps		Simplex	Duplex
N140	N4140	115	1	Non	15.0	1 or 1 & 5	2 or 3 & 4
E140	E4140	230	1	Non	7.5	1 or 1 & 5	2 or 3 & 4
BN140	BN4140	115	1	Non	15.5	1 or 1 & 5	2 or 3 & 4
BE140	BE4140	230	1	Non	7.5	1 or 1 & 5	2 or 3 & 4

SELECTION GUIDE

1. Single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
2. Mechanical alternator M-Pak 10-0072 or 10-0075.
3. See FM0712 for correct model of Electrical Alternator E-Pak.
4. Variable level control switch 10-0225 used as a control activator, specify duplex (3) or (4) float system.

CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.



<http://www.zoeller.com>

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Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"

"QUALITY PUMPS SINCE 1939"

SECTION: 3.20.065

FM1775

1101

Supersedes

0501

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



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ZOELLER ON-SITE WASTEWATER PRODUCTS

INTRODUCING ZOELLER SEPTIC SYSTEM FILTERS



Zoeller "WW" Residential Effluent Filter P/N 170-0078

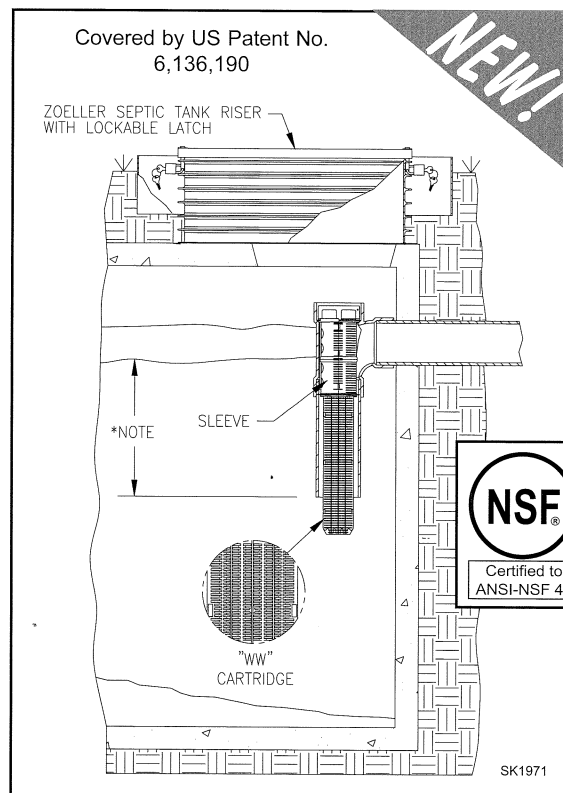
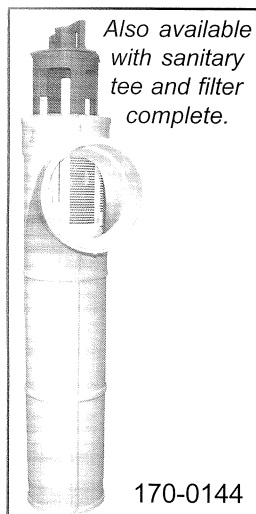
The Zoeller "WW" residential filter gives your septic system protection like no other. Zoeller Company's patented design keeps your lateral fields safe with twice the filtration area of most residential filters. All of the filtration area is submerged, making the filter 100% effective. The best feature of the WW filter is that the sleeve section of the filter remains in the outlet tee when the main filter is removed for servicing. This will guarantee no solids larger than 1/16" reach the lateral fields during servicing. The Zoeller "WW" filter is ultimate protection.

Improve the performance of your septic system: The number one reason that septic systems fail is because the lateral field becomes clogged. By preventing solids larger than 1/16" from exiting to your drain field, the lifetime of your system can be greatly increased.

Allows only the clearest effluent to leave the tank: Located in the sanitary tee, this filter extends beneath the scum layer, above the sludge layer, and withdraws effluent from the clear water zone of the tank.

Lowers maintenance costs: The filter must be serviced on a periodic basis to maintain peak performance. Under normal circumstances, the filter requires servicing when the septic tank is pumped. However, site specific circumstances may require more frequent service. A Zoeller Riser & Lid will make septic tank and filter maintenance an easy task.

Allows any responsible management entity to monitor the condition of the tank: During routine maintenance, the tank should be inspected to be sure unnecessary particulate is not getting into your tank (i.e. fruit peelings, cigarette filters, feminine hygiene materials, etc.). Check your local plumbing codes to determine how often your tank should be pumped. If sludge buildup becomes apparent on the bottom of your tank, then a more frequent pumping interval is suggested.



*NOTE: State and local plumbing codes may require a specific liquid penetration. For example, 25% - 45% into the liquid depth or 9" off the tank bottom.

Distributed by:

ZOELLER
PUMP CO.

Zoeller Residential Septic Tank Effluent Filter Specifications

Application: Single family homes.

Filter Area: 122 Linear Feet of 1/16" filtration.

Flow Rate: 1000 gpd.

Material: All materials are noncorrosive in the septic tank environment. Sleeve is PVC, primary filter is polypropylene, and filter connection element is neoprene.

Easy to install or retrofit: The Zoeller Septic System Filter fits inside any 4" sanitary tee. Slide the filter cartridge into the filter sleeve. Lock the cartridge and sleeve together by holding the sleeve stationary and rotating the cartridge clockwise. Slide the assembled cartridge and sleeve into the sanitary tee at the tank's outlet. Ensure the sleeve latch is pointing toward the outlet of the septic tank before filter placement into the tee. The drain field is now protected from solids greater than 1/16".

Adding an extension handle: Zoeller's effluent filter can be easily retrofitted with an extension handle. Attach a 1/2" PVC pipe to the top of the filter with properly installed stainless steel screws. Cut off to appropriate length below the lid. A 1/2" PVC Tee can be added to the pipe for added leverage and control.

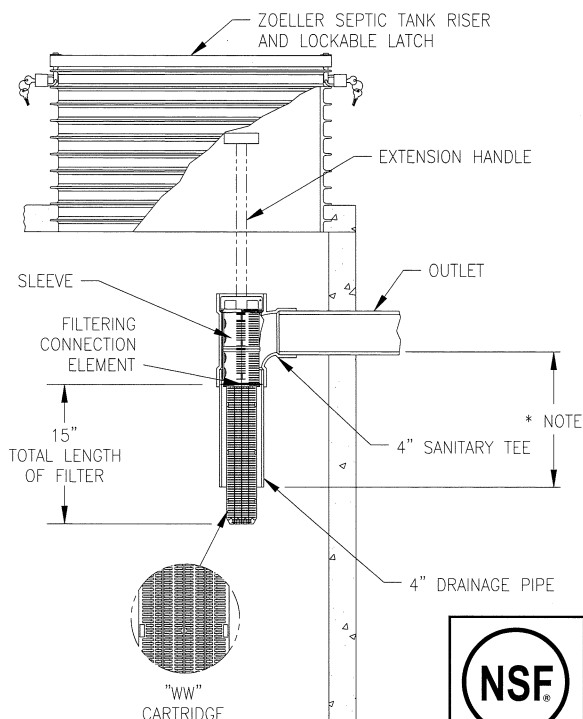
Easy to maintain: The filter cartridge can be maintained by rotating the cartridge counterclockwise and removing for cleaning. The sleeve should remain in the sanitary tee while cleaning the cartridge. To clean the cartridge, hold cartridge over septic tank opening and thoroughly rinse with hose until clean, washing filtered trash back into septic tank. After cleaning the cartridge, it is imperative that the sleeve be cleaned inside and out, by reinserting the cartridge; turning it clockwise in the sleeve and removing the sleeve from the sanitary tee. The Zoeller filter should be cleaned each time the septic tank is pumped or when the need is indicated by slow flows from the house. More frequent cleanings will not hurt the filter and could even improve the performance of your septic tank. For installations that exceed the design flow rate of the filter, more frequent cleanings may be required or manifold more than one sanitary tee to accept more than one filter.

Trouble shooting, repair, and replacement: Follow the install and maintenance instructions above. For replacement components, call 1-800-928-PUMP.

Lifetime Warranty: Every Zoeller filter is guaranteed to be free from defects in materials and workmanship for the lifetime of the homeowner/purchaser. Free repair or replacement, excluding labor, will be made on return of the filter prepaid to the factory. This warranty is limited to product proven to be free from abuse or improper installation.

***NOTE:** State and local plumbing codes may require a specific liquid penetration. For example, 25% - 45% into the liquid depth or 9" off the tank bottom.

Covered by US Patent No.
6,136,190



SK1972



ALL ZOELLER ON-SITE WASTEWATER PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE PLUMBING AND/OR HEALTH DEPARTMENT CODES.



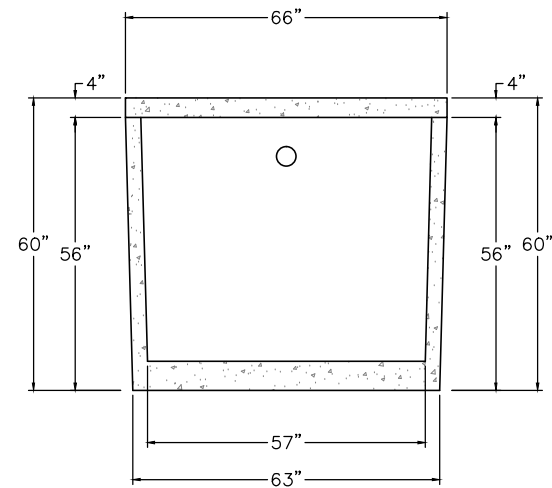
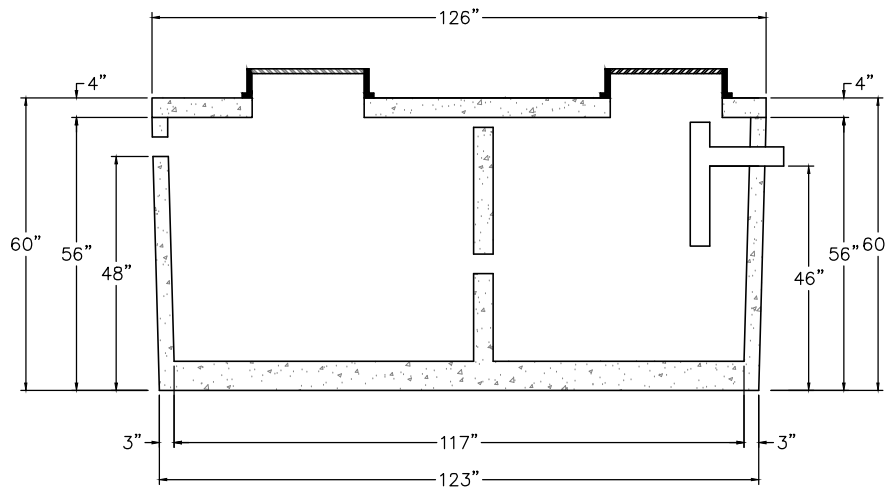
<http://www.zoeller.com>

ZOELLER
PUMP CO.

MAIL TO: P.O. BOX 16347
Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road
Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP
FAX (502) 774-3624

Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"



1,250 ST 323
NTS

NON TRAFFIC BEARING

DAVID BRANTLEY & SONS
37 Pine Ridge Rd.
Zebulon, NC 27597
Office 252-478-3721
Fax 919-573-0443
1nsta1ler@gmail.com

PREPARED FOR : David Brantley & Sons
37 Pine Ridge Rd.
Zebulon, NC 27597

DATE : April 11, 2014

CONTACT:
CORY BRANTLEY

REVISION NO.
Original Submitted

Revision 1

Revision 2

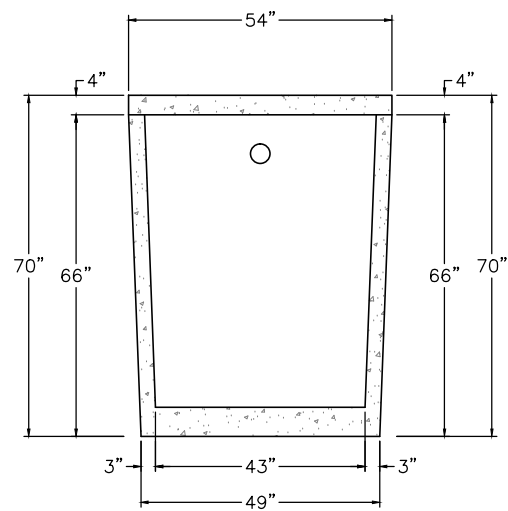
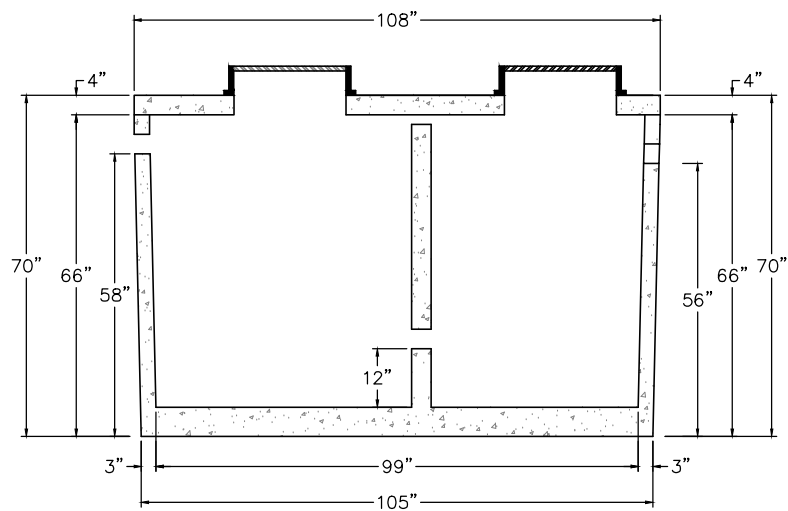
Revision 3

Master Set

DATE
April 11, 2014

BRANTLEY TASK MODEL
1,250 ST 323

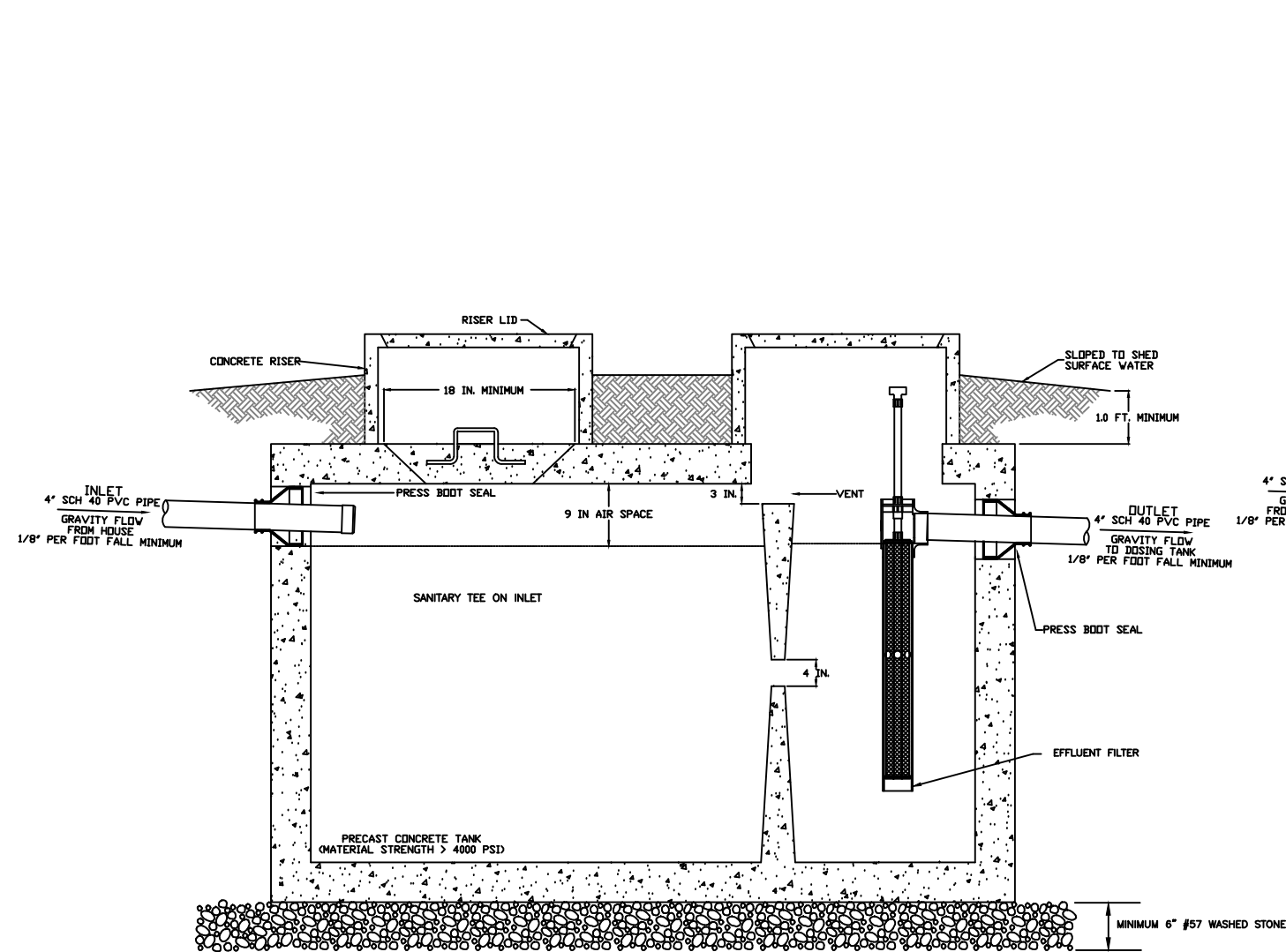
SHEET NUMBER
1 of 1



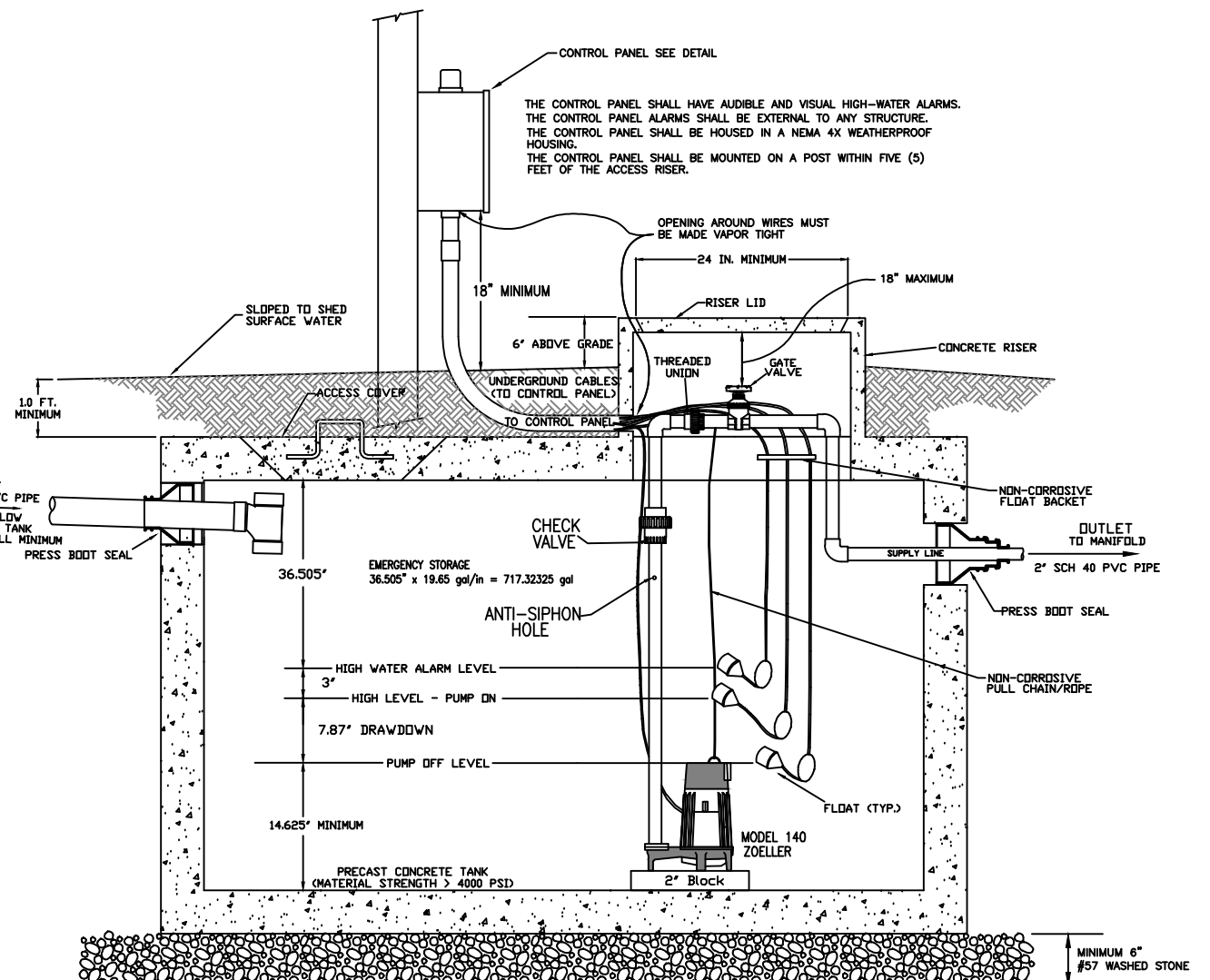
1,200 PT 463
NTS

NON TRAFFIC BEARING

BRANTLEY TASK MODEL 1,200 PT 463		DATE April 11, 2014
SHEET NUMBER 1 of 1		
REVISION NO. Original Submitted		
Revision 1		
Revision 2		
Revision 3		
Master Set		
PREPARED FOR : David Brantley & Sons 37 Pine Ridge Rd. Zebulon, NC 27597		
DATE : April 11, 2014		
CONTACT: CORY BRANTLEY		
1n1staller@gmail.com		



1250 GAL SEPTIC TANK SCHEMATIC
NOT TO SCALE



1200 GAL PUMP TANK SCHEMATIC
NOT TO SCALE

NOTES

1. ALL TANKS SHALL BE LEAK TESTED SUCH THAT EXFILTRATION OCCURS AT A RATE WHICH DOES NOT EXCEED TEN GALLONS PER TWENTY-FOUR HOURS PER 1,000 GALLONS OF TANK CAPACITY.
2. ALL TANKS SHALL REST ON A BED OF #57 WASHED GRAVEL. THE MINIMUM THICKNESS OF THE GRAVEL BED IS 6 INCHES.
3. ALL TANKS MUST BE APPROVED FOR USE BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH).
4. INVERTS SHOWN ARE APPROXIMATE. THE INSTALLER SHALL FIELD CONFIRM PRIOR TO CONSTRUCTION.
5. ALL HARDWARE INSTALLED INSIDE OF TANKS SHALL BE OF STAINLESS STEEL.
6. TANK DIMENSIONS VARY BY MANUFACTURER.
7. DRAWDOWN WILL VARY WITH TANK DIMENSIONS.
8. NO ELECTRICAL SPLICES SHALL BE MADE INSIDE THE PUMP TANK.

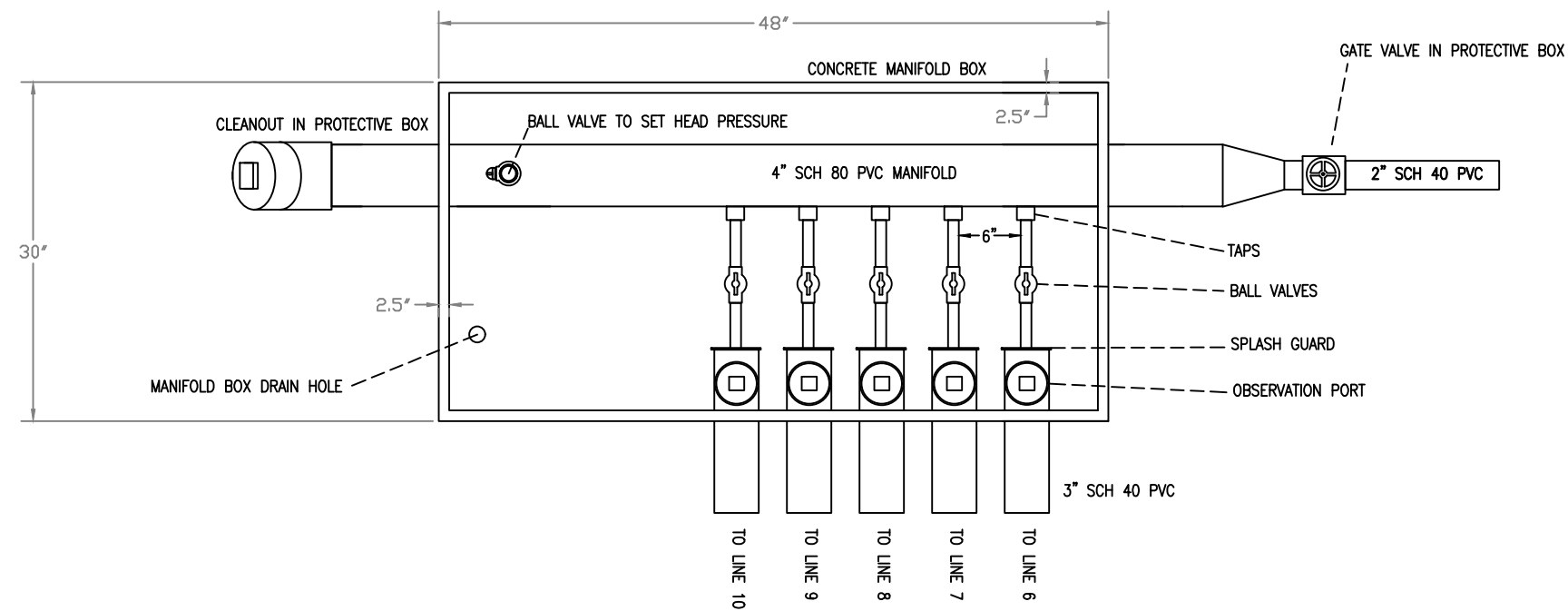


Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

Septic and Pump Tank Details
Prescott S/D, Lot 18
Wake County, North Carolina

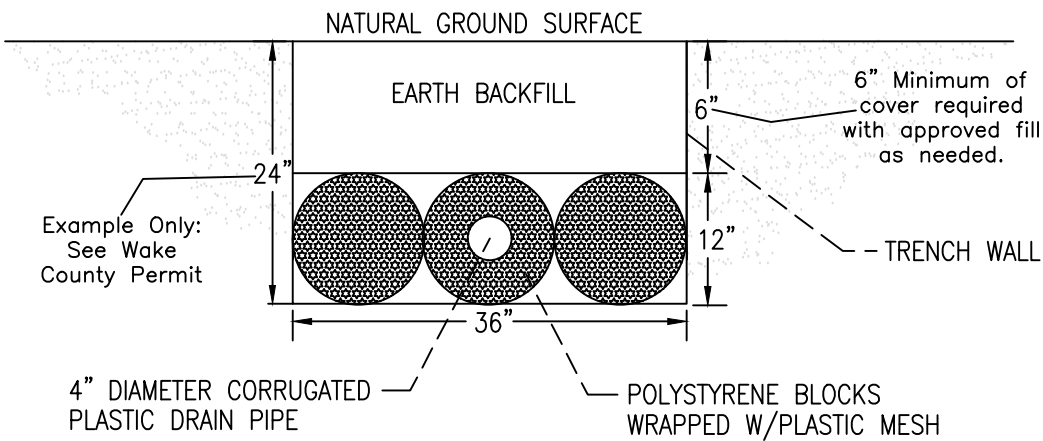
Job# : 3634
Drawn By : JR
Date : 05/04/2021
Revision : 00/00/0000

PRESSURE MANIFOLD DETAILS TOP VIEW

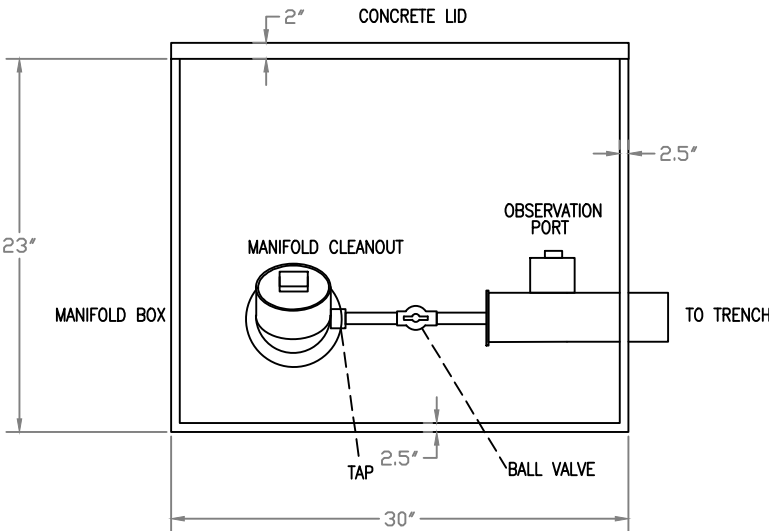


EZ-FLOW DETAILS

Example only: Installed trench bottom should match design.



PRESSURE MANIFOLD DETAILS END VIEW



TAP SCHEDULE	
LINE #	TAP
6	1/2" SCH 80
7	1/2" SCH 80
8	1/2" SCH 40
9	1/2" SCH 40
10	1/2" SCH 80

NOTE :

1. EZ-FLOW INSTALLATION SHALL MEET THE REQUIREMENTS INCLUDED IN ITS INNOVATIVE APPROVAL
2. TRENCH BOTTOM SHALL BE AT LEAST 12" FROM ANY RESTRICTIVE SOIL LAYER
3. END CAP SHALL BE PROVIDED AT END OF ALL CORRUGATED PLASTIC PIPE LINES AND TRENCH BOTTOMS SHALL BE LEVEL
4. THIS IS A GENERIC TRENCH PROFILE SEE COUNTY PERMIT FOR TRENCH DEPTH.

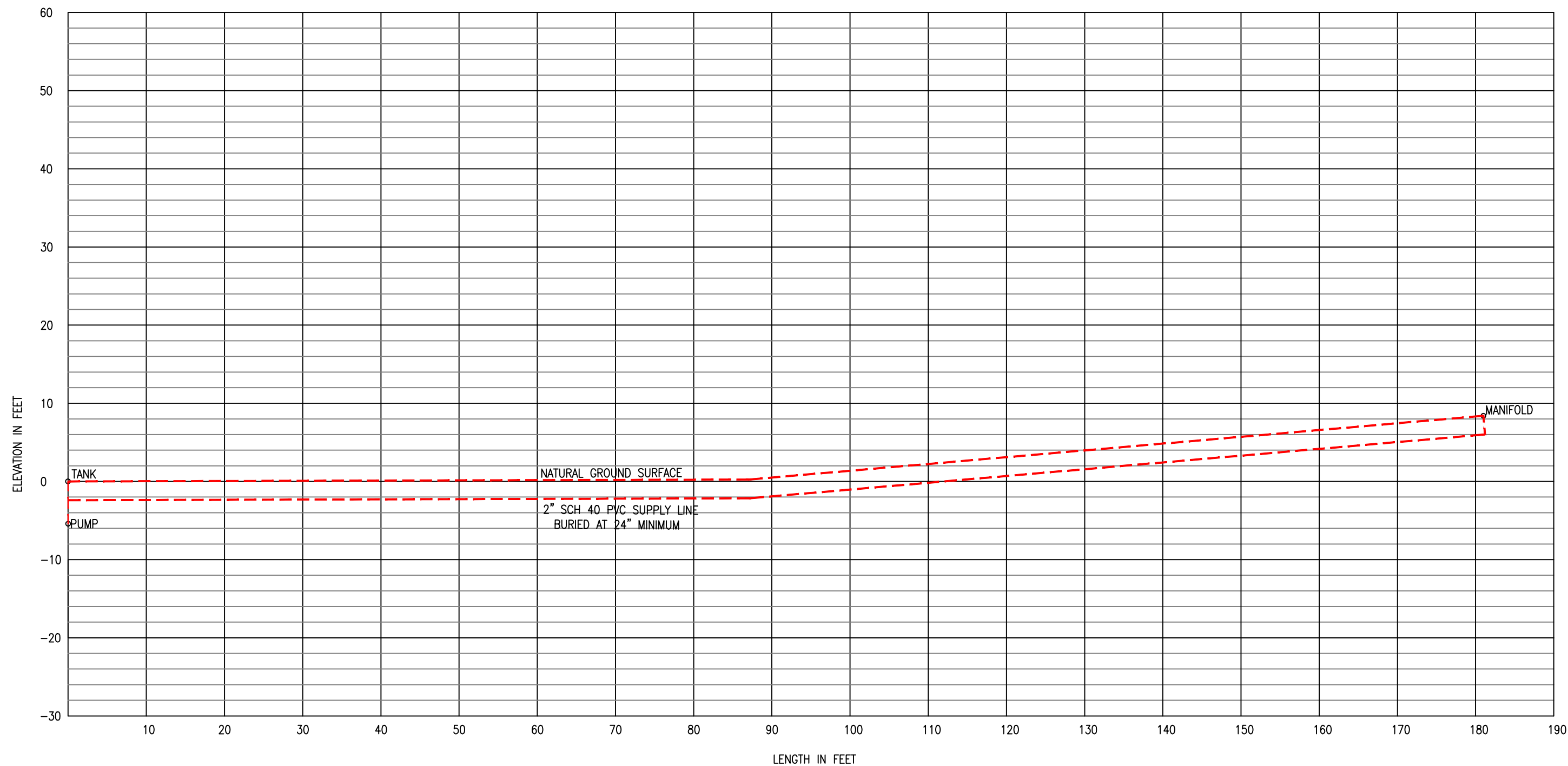


Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

Manifold and Trench Details
Prescott S/D, Lot 18
Wake County, North Carolina

Job# : 3634
Drawn By : JR
Date : 05/04/2021
Revision : 00/00/0000

SUPPLY LINE
HYDRAULIC PROFILE

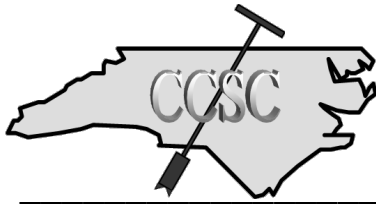


Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

Hydraulic Profile
Prescott S/D, Lot 18
Wake County, North Carolina

Job# : 3634
Drawn By : JR
Date : 05/04/2021
Revision : 00/00/0000

CA PART E



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, NC 27587
919-569-6704/fax 919-569-6703



May 5, 2021

Wake County Staff
Wake County Environmental Health Department
336 Fayetteville Street
Raleigh, North Carolina 27601

RE: Wastewater Daily Flow Calculations

Prescott Lot 18
6504 Prescott Shore Drive, Wake Forest NC 27587, Wake County NC
Job #3634

Dear Wake County Staff:

Central Carolina Soil Consulting (CCSC) in conjunction with Bateman Civil Survey Company are proposing wastewater daily flow calculations for a single-family home located at Prescott Lot 18 pursuant to session law 2014-120 and 2013-413. The proposed home will have **4** bedrooms and under the current flow calculations provided in the state rules would have a daily flow of **480** gallons per day. That would be based on 120 gallons per bedroom.

Household flow rates from the 15 NCAC 18A section of the state rules relied on fixture flow rates from 1982, and calculated the flows for common fixtures to established average flows for the purpose of calculating household daily flows and septic system based on those flows. The data for the historic fixture flows was taken from the EPA 2002 Onsite Wastewater Treatment Systems Manual.

The attached spreadsheet contains the flow reducing fixtures that are proposed for Prescott Lot 18. The table includes flow rates for the flow reducing fixtures as well as flow rates from the state rules and the percentage of water savings. On average the proposed fixtures provide a 40% savings.

We are requesting a reduction of 25% for the use of low flow fixtures. This will provide an adjusted daily flow of 90 gallons per bedroom per day and a total flow of **360** gallons per day for the proposed 4-bedroom house.

Should you have any questions or comments please contact Matt Burdette at 919-422-2827.

Sincerely,

CENTRAL CAROLINA SOIL CONSULTING PLLC

BATEMAN CIVIL SURVEY COMPANY
NCBELS# C-2378.



Matt Burdette
Environmental Specialist



Tom Speight, P.E.
(seal)



Prescott Lot 18						
	Item	6	Gal/min. or flush	Number of Fixures	Base Flow From 1982	Percent Water Savings
Kitchen	Kitchen Sink Faucet	Moen S72308	1.5 gal/minute	1	3.0 gal/minute	50%
Laundry	Kitchen Sink Faucet	Moen S72308	1.5 gal/minute	1	3.0 gal/minute	50%
Guest	Lavatory Faucet	Moen WS84760	1.2 gal/minute	1	3.0 gal/minute	60%
	Shower Head	Moen T2472	1.8 gal/minute	1	5.5 gal/minute	67%
Master	Lavatory Faucet	Moen 84763	1.2 gal/minute	2	3.0 gal/minute	60%
	Shower Head	Moen T2472	1.8 gal/minute	1	5.5 gal/minute	67%
	Bath	Fill & Release	Fill & Release	1	Fill & Release	0%
Bath 2	Lavatory Faucet	Moen WS84760	1.2 gal/minute	1	3.0 gal/minute	60%
	Shower Head	Moen 82760	1.8 gal/minute	1	5.5 gal/minute	67%
Bath 3	Lavatory Faucet	Moen 82760	1.2 gal/minute	1	3.0 gal/minute	60%
	Shower Head	Moen T2472	1.8 gal/minute	1	5.5 gal/minute	67%
Toilets	Master, Guest 2, 3	Mansfield 135-3173	1.28 gal/flush	4	3.5 gal/minute	63%

FIXTURES	TOILET	FAUCET	SHOWER	LEAK	BATH	OTHER	DISHWASHER	CLOTHES WASHER	TOTALS
PERCENT OF HOUSE HOLD WATER USE	24%	20%	20%	12%	3%	3%	2%	16%	100%
GALLONS PER DAY (480 BASE)	115	96	96	58	14	14	10	77	480
PERCENT OF SAVINGS FROM WATER SAVING FIXURES	63%	57% avg	67%	0%	0%	0%	0%	0.0%	40%
ADJUSTED FLOW (GALLONS)	43	41	32	58	14	14	10	77	289



- Reflex™ pulldown system offers smooth operation, easy movement and secure docking
- Power Clean™ spray technology
- Metal construction with various finishes identified by suffix
- Quick connect installation
- Pulldown spray with 68" braided hose
- Flexible supply lines with 3/8" compression fittings
- High arc spout provides height and reach to fill or clean large pots while pulldown wand provides the maneuverability for cleaning or rinsing
- 360° rotating spout
- Faucet designed for handle to be mounted on right side

- Lever style handle
- Temperature controlled by 100° arc of handle travel
- Operates with less than 5 lbs. of force
- Operates in stream or spray mode in the pulldown or retracted position

- Flow is limited to 1.5 gpm (5.7 L/min) at 60 psi

- 1255™ Duralast™ cartridge

- Third party certified to IAPMO Green, ASME A112.18.1/CSA B125.1 and all applicable requirements therein including NSF 61/9G & 372
- Meets CalGreen and Georgia SB370 requirements
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- The backflow protection system in the device consists of two independently operating check valves, a primary and a secondary which prevent backflow

- **ADA**  for lever handle

- Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
- 10 year limited warranty when used in a multifamily installation
- 5 year limited warranty when used in a commercial installation

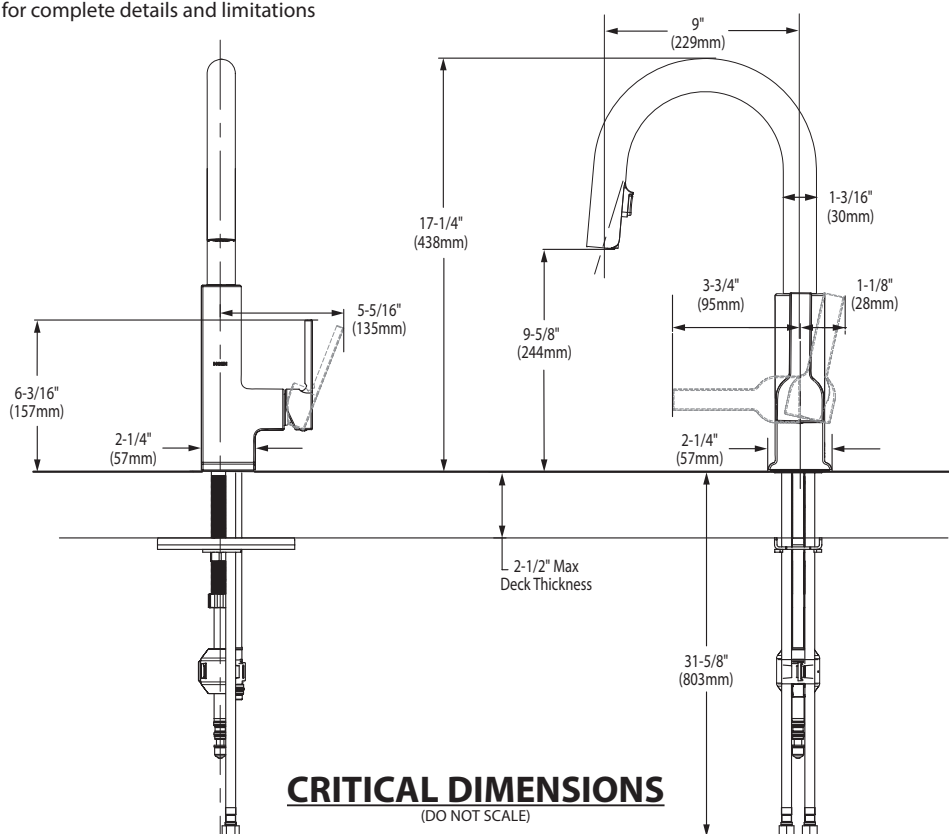
Visit www.moen.com/support for complete details and limitations

STō

Single Handle High Arc Pulldown Kitchen Faucet

Models: S72308 series

NOTE: THIS FAUCET IS DESIGNED TO BE INSTALLED THROUGH 1 HOLE, 1-1/2" (38mm) MIN. DIA.



FOR MORE INFORMATION CALL: 1-800-BUY-MOEN
www.moen.com

DESCRIPTION

- Metal construction with various finishes identified by suffix
- Flexible supply lines with 3/8" compression fittings
- Includes non-metal pop-up waste assembly
- Includes optional 3 hole deck plate (escutcheon)

OPERATION

- Lever style handle
- Temperature controlled by 100° arc of handle travel

FLOW

- Water usage is limited to these maximum flow rates as indicated by the corresponding product markings
 - 1.2 gpm max (4.5L/min) at 60 psi

CARTRIDGE

- 1255™ Duralast™ cartridge
- Nonmetallic/nonferrous and stainless steel material

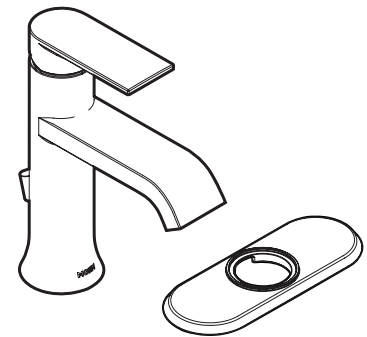
STANDARDS

- Third party certified to: WaterSense®, ASME A112.18.1/CSA B125.1 and all applicable requirements referenced therein
- Certified to NSF 61/9 & 372
- Products marked with 1.2 gpm are compliant with California water efficiency regulations
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- ADA ♿ for lever handles

WARRANTY

- Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
- 10 year limited warranty when used in a multifamily installation
- 5 year limited warranty when used in a commercial installation

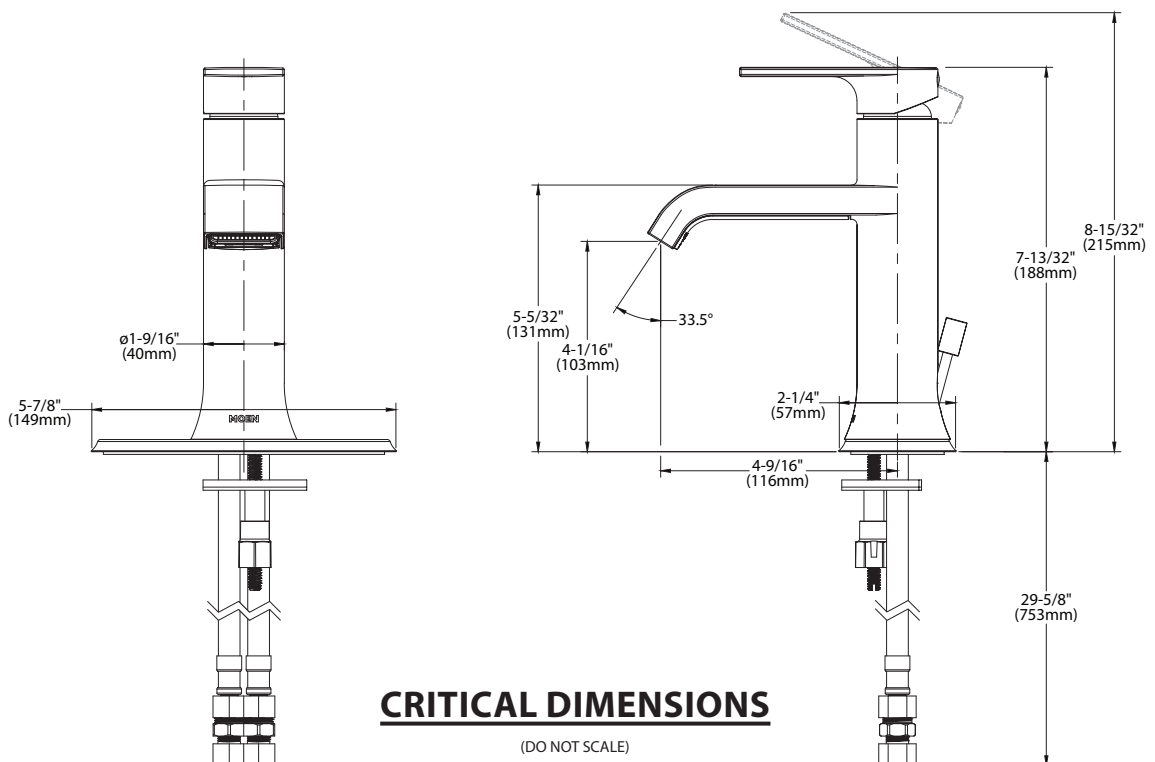
Visit www.moen.com/support for complete details and limitations



GENTA™
One-Handle Lavatory Faucet

Model: WS84760 series
(includes deck plate)

NOTE: This faucet is designed to be installed through 3 holes, 1" min. dia., 2" on center, or 1 hole 1" dia.





Specifications

DESCRIPTION

- Metal construction with chrome finish
- Includes showerhead, arm, flange and diverter spout

OPERATION

- Lever style handle with temperature red/blue indicator on the escutcheon
- 3 function showerhead: full, wide and massage
- Handle operates counterclockwise through a 270° arc with off at 6 o'clock and maximum hot at the 9 o'clock position. Shut off in clockwise direction
- Adjustable temperature limit stop to control maximum hot water temperature
- Pressure balancing mechanism maintains selected discharge temperature to $\pm 3.6^{\circ}\text{F}$ ($\pm 2^{\circ}\text{C}$)
- 6 function showerhead

FLOW

- EP suffix models are limited to 2.0 gpm (7.6 L/min) max for products manufactured prior to June 30, 2018. EP suffix models manufactured after June 30, 2018 are limited to 1.75 gpm (6.7 L/min) max.

CARTRIDGE

- 1222 cartridge design
- Nonmetallic/nonferrous and stainless steel materials
- Accommodates back to back installations

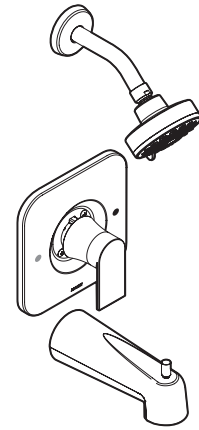
STANDARDS

- Third party certified to meet ASME A112.18.1/CSA B125.1 and all applicable requirements referenced therein
- EP suffix models are IAPMO Green listed and third party certified to WaterSense®
- **ADA**  for lever handle

WARRANTY

- Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
- 10 year limited warranty when used in a multifamily installation
- 5 year limited warranty when used in a commercial installation

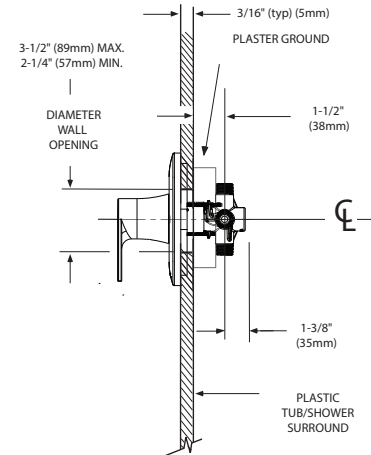
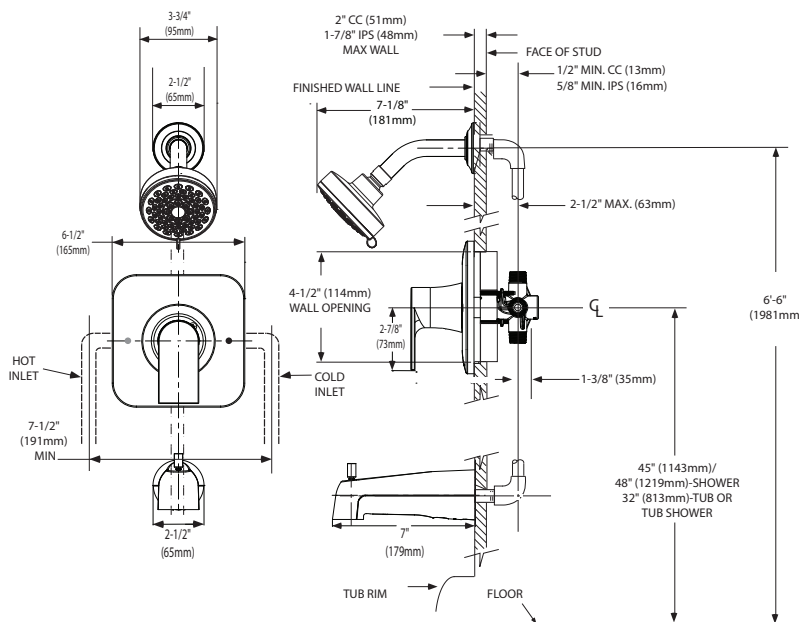
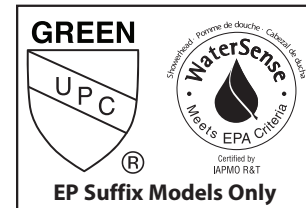
Visit www.moen.com/support for complete details and limitations



Genta™ POSI-TEMP® Single-Handle Tub/Shower Trim Kit

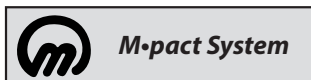
Models: T2471 series - valve trim only
T2472 series - shower trim only
T2473 series - tub/shower trim only

Valves: 62300 series
2500 series



CRITICAL DIMENSIONS

(DO NOT SCALE)



DESCRIPTION

- Metal construction with various finishes identified by suffix
- Duralock™ quick connect installation
- 1/2" IPS connections
- Includes non-metal pop-up waste assembly

OPERATION

- Lever style handles
- Hot side counterclockwise to open (clockwise to close)
- Cold side clockwise to open (counter-clockwise to close)

FLOW

- Water usage is limited to these maximum flow rates as indicated by the corresponding product markings
 - 1.2 gpm max (4.5L/min) at 60 psi

CARTRIDGE

- 1234 cartridge design
- Nonmetallic and stainless steel material

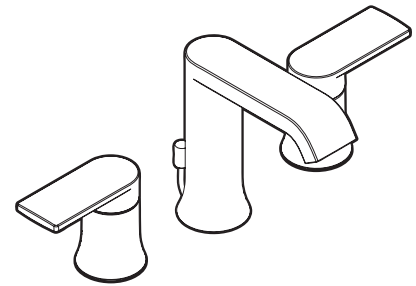
STANDARDS

- Third party certified to WaterSense®, ASME A112.18.1/CSA B125.1 and all applicable requirements referenced therein
- Certified to NSF 61/9 & 372
- Products marked with 1.2 gpm are compliant with California water efficiency regulations
- Complies with California Proposition 65 and with the Federal Safe Drinking Water Act
- ADA ♿ for lever handles

WARRANTY

- Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
- 10 year limited warranty when used in a multifamily installation
- 5 year limited warranty when used in a commercial installation

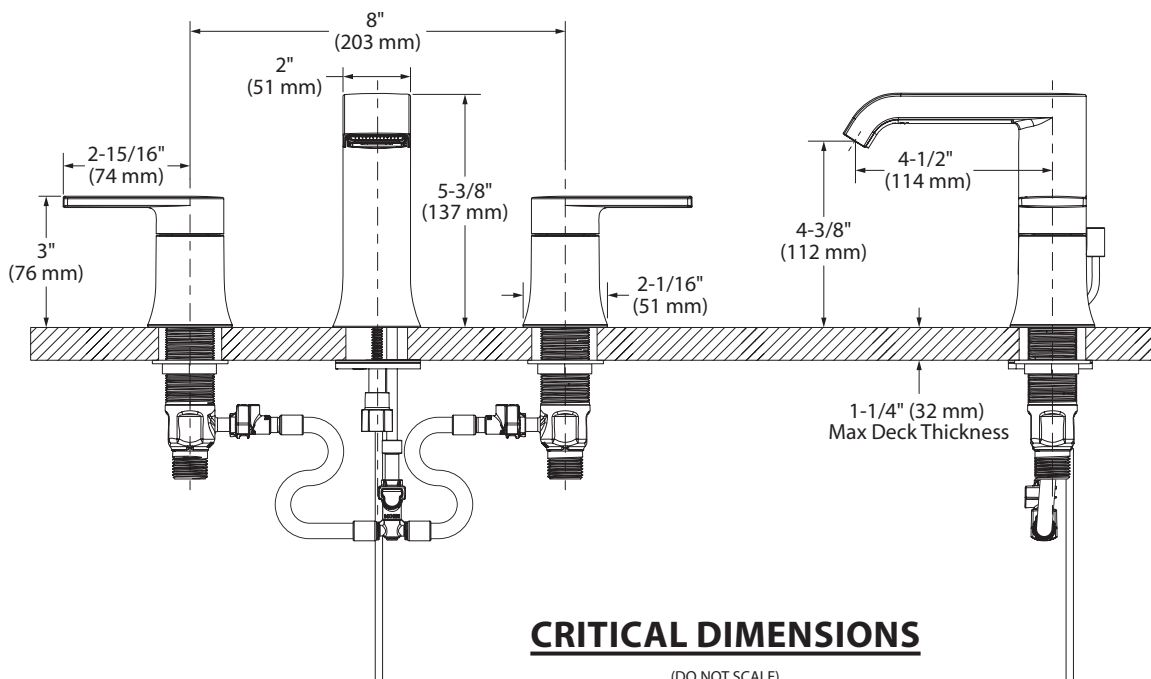
Visit www.moen.com/support for complete details and limitations



Genta™
Two-Handle Widespread
Lavatory Faucet

Models: 84763 series

NOTE: SPOUT INSTALLS THROUGH 1-1/8" MIN. DIA. HOLE.
VALVES INSTALL THROUGH 1-1/8" MIN. DIA. HOLE.
For Deck Thickness 1-3/8" to 3", use service kit number 115001. Valves install through 1-1/4" dia. hole.



DESCRIPTION

- Metal construction with various finishes identified by suffix
- Pressure balancing cycle valve design with an adjustable temperature limit stop
- 1/2" IPS connections
- Includes valve, tub spout, showerhead, arm, flange, and port cap for shower only application

OPERATION

- Lever style handle
- Handle operates counterclockwise through a 270° arc with off at 6 o'clock and maximum hot at the 9 o'clock position. Shut off in clockwise direction
- Adjustable temperature limit stop to control maximum hot water temperature
- Pressure balancing mechanism maintains selected discharge temperature to $\pm 2^\circ$

FLOW

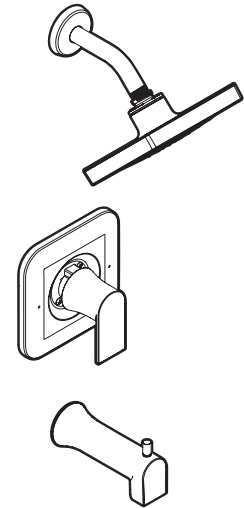
- Showerhead is limited to 1.75 gpm (6.6 L/min)

STANDARDS

- Third party certified to ASME A112.18.1/CSA B-125.1 and all applicable requirements referenced therein
- **ADA** ♿ for lever handle
- Meets WaterSense® criteria
- Meets New York City Local Law No. 57
- Products marked with 1.75 gpm are compliant with WaterSense®, and California water efficiency regulations

WARRANTY

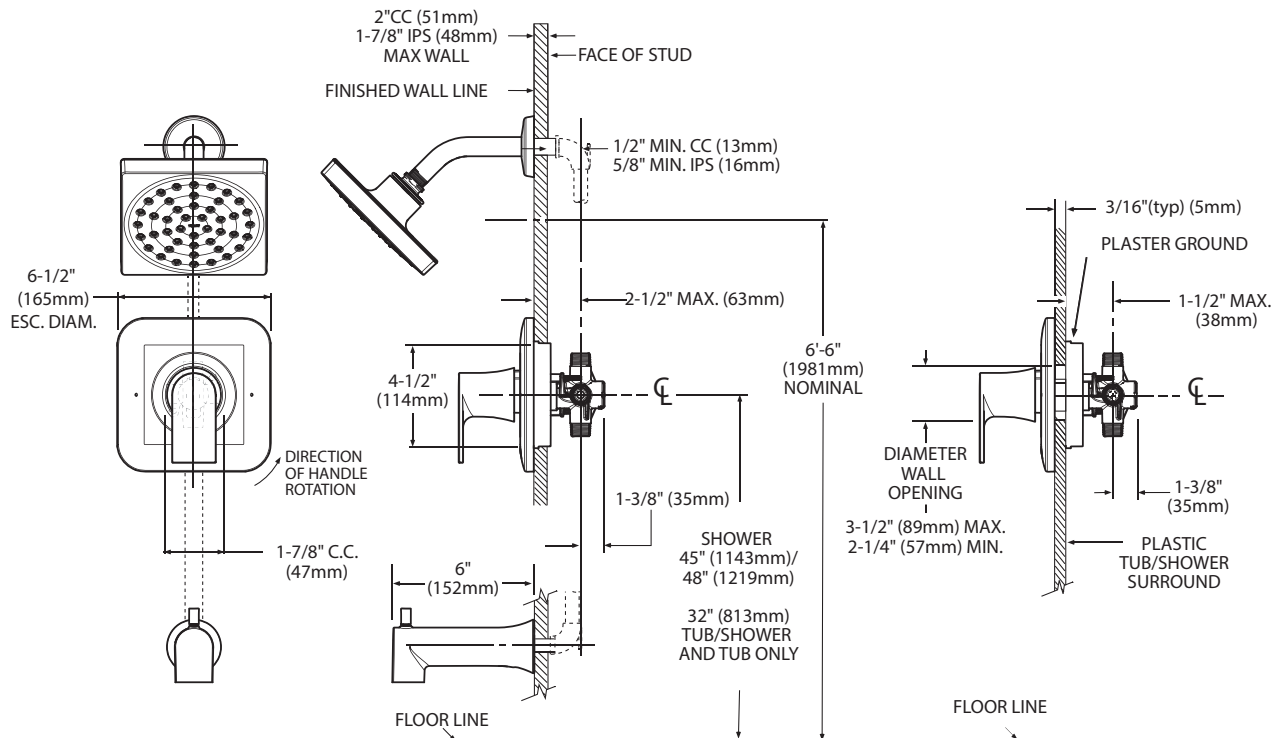
- Lifetime limited warranty against leaks, drips and finish defects to the original homeowner
 - 10 year limited warranty when used in a multifamily installation
 - 5 year limited warranty when used in a commercial installation
- Visit www.moen.com/support for complete details and limitations



Genta™

Single-Handle Tub/Shower Valve

Models: 82760 series



CRITICAL DIMENSIONS

(DO NOT SCALE)

135-3173

Alto® 1.28

Elongated Front, Vitreous China, Two-Piece Toilet



Features

- 3 bolt tank-to-bowl connection
- 1.28 gpf / 4.86 lpf low water consumption
- Uses 20% less water than conventional toilets
- Elongated front bowl
- 3" hybrid flush valve
- Pilot operated fill valve
- 12" rough-in
- Color-match trip lever
- 2" glazed trapway
- The Mansfield® limited lifetime warranty
- Available in white and standard colors: biscuit & bone



Model 135-3173

Toilet seat not included



*Also available as a complete toilet package.

Components

Model #	Description	Codes/Standards
135-3173	Elongated front, two-piece toilet. Less toilet seat and supply. Specify color.	  
135	Elongated front toilet bowl only. Less toilet seat. Specify color.	
3173	Tank and cover only, with left hand, front-mount, color-match trip lever. Pilot valve. Less supply. Specify color.	
3121	Same as 3173 with Fluidmaster pilot valve and hybrid flush valve.	
3125	Tank and cover only, for 14" rough-in, with left hand, front-mount, color-match, plastic trip lever. Less supply. Specify color.	
*4135CTK	Elongated front, complete toilet kit. Includes toilet seat, tank and bowl, flange bolts, wax ring with polyethylene flange and instructions.	

Other Options:

3173RH	Same as model 3173, with right hand, color-match trip lever. Less supply. Specify color.	 
3174	Same as model 3173, with tank liner.	
3122	Same as model 3121, with tank liner.	
3121RH	Same as 3121 with right hand trip lever.	
3120	Same as 3121 with chrome trip lever.	
3120RH	Same as 3120 with right hand trip lever.	
*4135LTCTK	Same as 4135CTK, with tank liner.	
SB200	Alto Elongated, toilet seat. Specify color.	



MADE IN USA

135-3173**Alto® 1.28**

Elongated Front, Vitreous China, Two-Piece Toilet

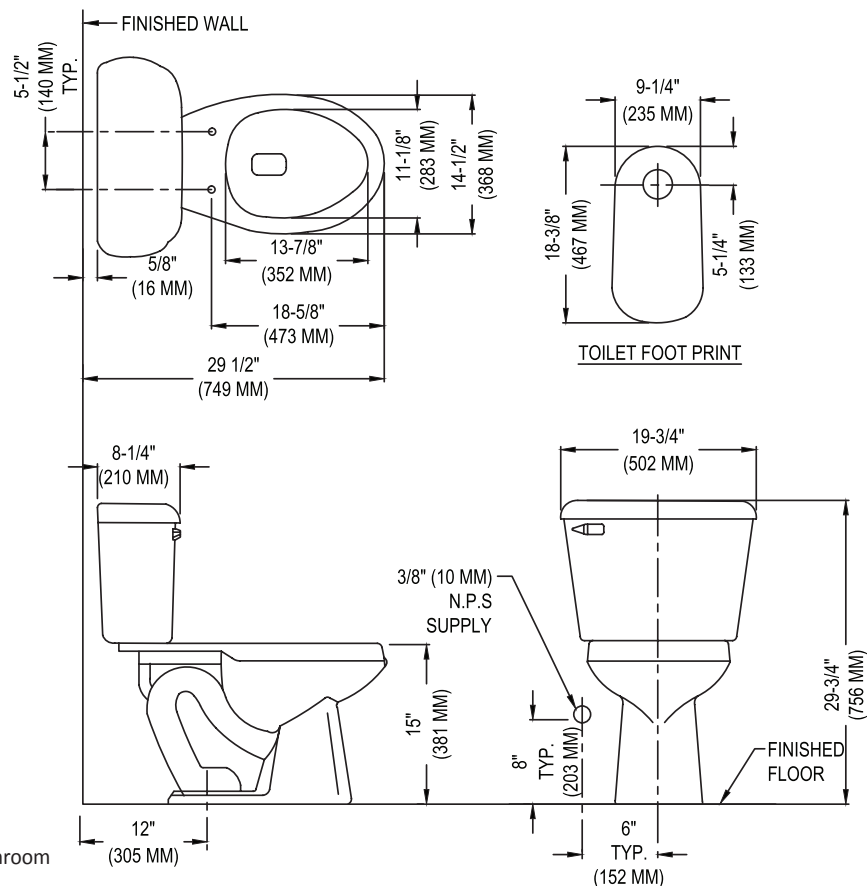


Specifications

Model #	Description	Codes/Standards
135-3173	Elongated front (1.28 gpf/4.86 lpf) two-piece toilet	  

Specification	Description	Specification	Description
Material	Vitreous china	Trap Diameter	2"
Water Pressure Range	20 to 80 PSI	Trap Seal	2-1/2"
Flush System	3" hybrid valve	Rough-in	12"
Water Usage	1.28 gpf / 4.86 lpf	Shipping Weight	Model 135 - 52 lbs. Model 3173 - 33 lbs. Models 4135CTK and 4135LTCTK - 88 lbs.
Water Surface Area	9" X 10"	Warranty	Vitreous China - Limited Lifetime Tank Trim - Limited One Year
MaP Rating	600 grams		

Technical Information



See our complete line of acrylic and vitreous china bathroom fixtures, plastic tank trim and plumbing products.

These dimensions are nominal and subject to change without notice.

Fixture performance and specifications meet or exceed ASME A112.19.2-2008/CSA B45.1-08 standards, and other state and local codes.



MADE IN USA

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN
AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED

***PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR
INTENDED USE CHANGED***

IMPROVEMENT PERMIT

PERMIT #: WRP-055592-2021

APPLICATION DATE: 03/15/2021

BLDG. PERMIT #: RBPR-055590-2021

PIN: 1860541210

RECORDED: Yes

TOWNSHIP: 19 - Wake Forest

JURISDICTION: Wake County

ZONING: R-40W

APPLICANT: Russin Homes, LLC
10816 Bedfordtown DR

BUSINESS PHONE: (919) 520-7342

HOME PHONE:

MOBILE PHONE:

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE

EXISTING USE:

SITE ADDRESS: 6504 PRESCOTT SHORE DR

SUBDIVISION: Prescott

LOT: 18

ACRES: 0.97

DIRECTIONS: Route 98 East, Turn Right on Averette Road, Turn Left on Old Pearce Road, Turn left on Prescott Shore Drive (Lot 18 is 2nd lot on right)

Permit is subject to revocation if the Site Plan or Plat changes or the intended use changes.

*Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

IP VALID FOR: Five Years AS PER GS 130A-335 (f)

DESIGNED BY: CCSC

SYSTEM LAYOUT: Private Sector

SITE CLASSIFICATION: Provisionally Suitable

IP STATUS: Issued

BY: Jeremy Davis

DATE: 05/10/2021

NUMBER OF BEDROOMS: 4

OR TOTAL NUMBER OF OCCUPANTS: 8

PERMITTED DESIGN FLOW: 360 GPD

BASEMENT: No

BASEMENT PLUMBING:

WASTEWATER STRENGTH: Domestic

SYSTEM TYPE: III B

LTAR: 0.300

EXISTING SYSTEM UTILIZED: No

PRETREATMENT STRENGTH REQUIRED: None

EASEMENT FOR WW SYSTEM ASSOCIATED WITH PARCEL: No

MAXIMUM TRENCH DEPTH: 26 INCHES

PUMP REQUIRED: Yes

SPECIFIC SYSTEM REQUIREMENTS: -System designed for 4 bedroom home, having 360 gals per day (Engineer Flow Reduction used).

-Future Repair is a IIIB type system. With a Max Trench depth of 22" and a 0.30 LTAR.

-(Both Initial and Future Repair are designed as Saprolite systems.)

-Site serviced by PUBLIC well water.

-No cutting, grading, alterations, or utilities in septic area.

-Maintain all required setbacks.

ISSUED BY:

A handwritten signature in black ink, appearing to be "J. J. J.", is written on a light blue rectangular background.

DATE: 05/10/2021

PRELIMINARY PLOT PLAN FOR

RUSSIN HOMES

LOT 18, PRESCOTT SUBDIVISION

6504 PRESCOTT SHORE DRIVE

REF: B.M. 2020, PG 248-255

WAKE FOREST TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

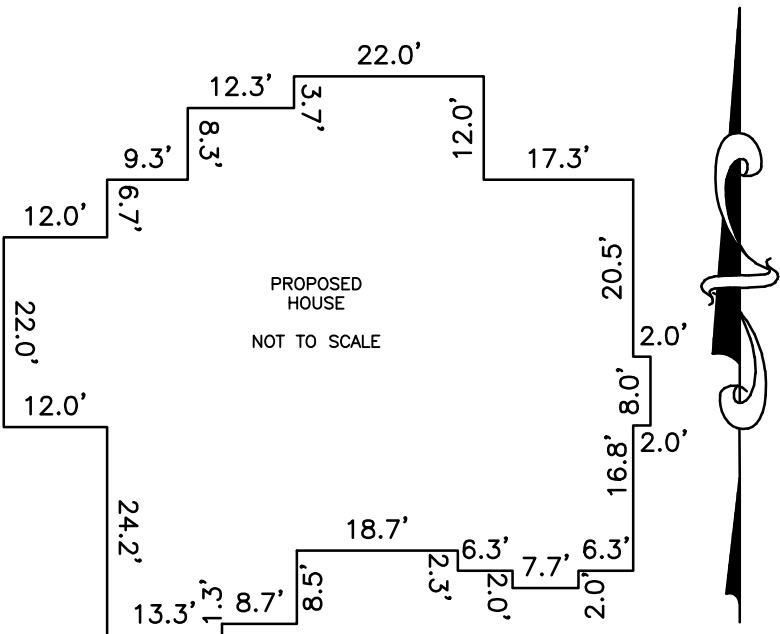
MARCH 25, 2020

REVISED MARCH 31, 2020

REVISED MAY 13, 2020

REVISED MARCH 15, 2021

ZONED R-40W



SCALE 1"=60'

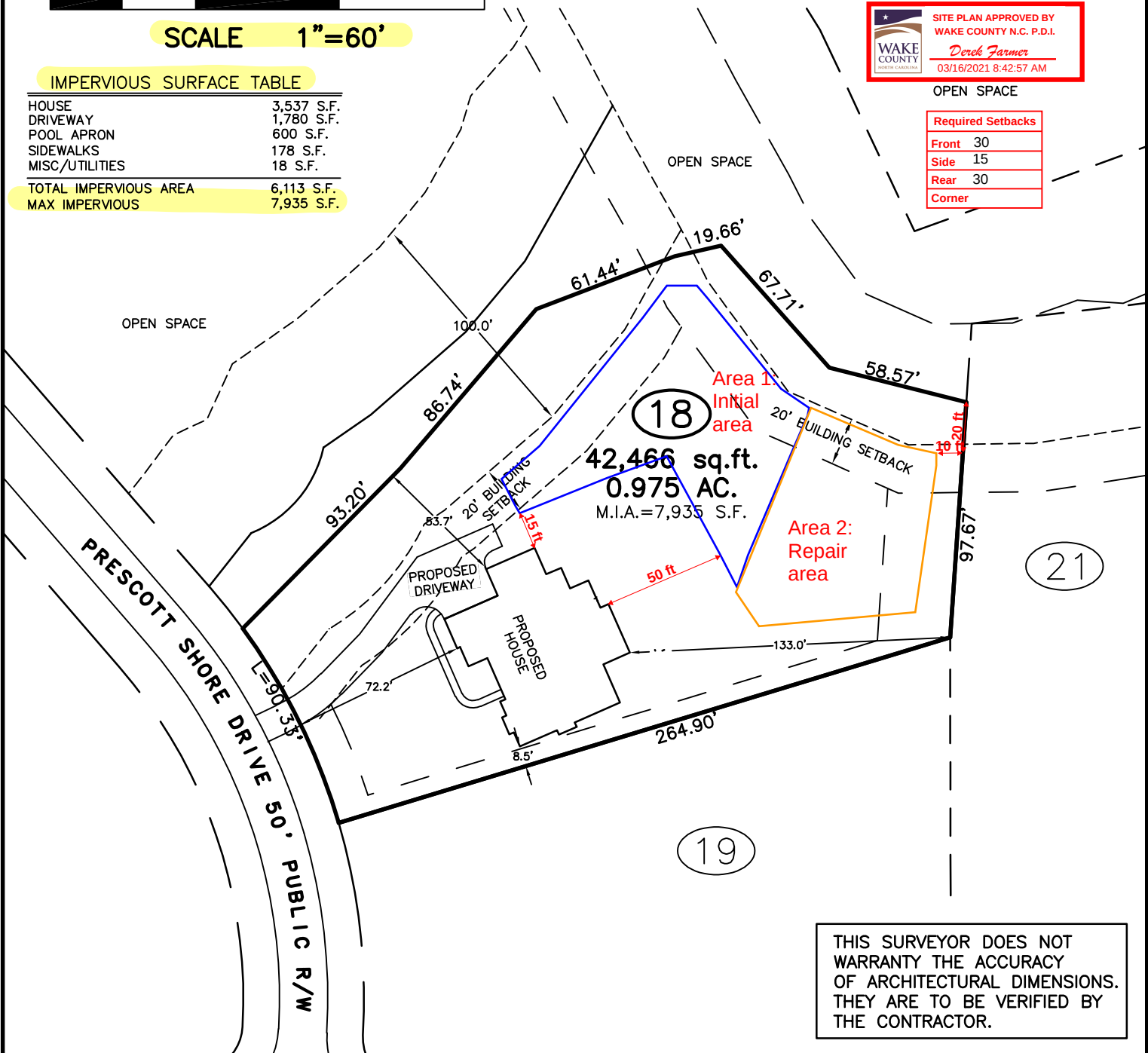
055590-2021



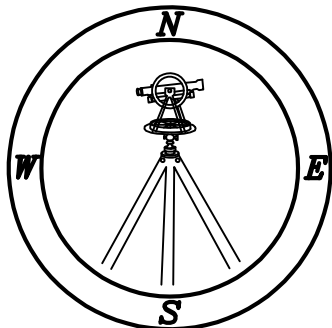
IMPERVIOUS SURFACE TABLE	
HOUSE	3,537 S.F.
DRIVEWAY	1,780 S.F.
POOL APRON	600 S.F.
SIDEWALKS	178 S.F.
MISC/UTILITIES	18 S.F.
TOTAL IMPERVIOUS AREA	6,113 S.F.
MAX IMPERVIOUS	7,935 S.F.

OPEN SPACE

Required Setbacks	
Front	30
Side	15
Rear	30
Corner	



THIS SURVEYOR DOES NOT
WARRANT THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.



CAWTHORNE, MOSS
& PANCIERA, P.C.

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:
-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES,
OR SALES.