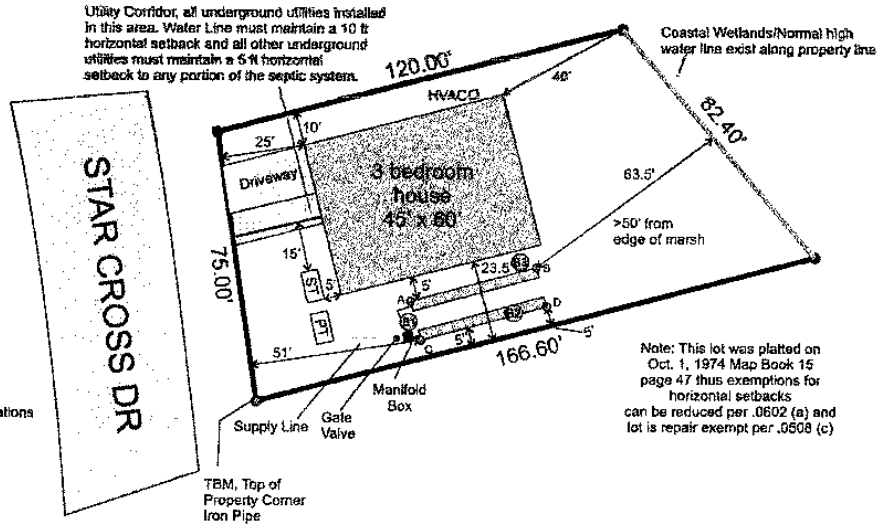
"The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."



Legend

- Relative Elevation Locations
- Soil Boring Locations

1709 Star Cross Dr
Village Green Subdivision
Lot 23 Section 1
Site Plan Proposal / House Site
1" = 30'
August 22, 2024
Parcel #s 229LD023

Wastewater System Design Details
3 Bedroom - 360 GPD
1000 Gallon Septic Tank
1000 Gallon Pump Tank

Initial (Green)
T&J Panel Block System (PPBPS)
Soil wetness condition 32-36"
0.8 LTAR
360 GPD / 0.8 LTAR = 450 ft^2
450 ft^2 / 3 ft = 150 LF x 0.5 = 75 Linear Feet
(2) 3' Horizontal placed lines at 38' @ 9' o.c.
(9) PPBPS panels per lateral, spaced 5" apart
Installed at 15-17" below
ground surface as shown in Table 1.
System requires 5" of Group II/III
soil cover required.

This septic system should be routinely evaluated and pumped every 3-5 years. This system was not designed for a facility that uses the following: Garbage disposal, Reverse Osmosis, Commercial Laundry. The system is designed on the basis of the design flow rate and for residential strength effluent quality. Design Daily Flow is 360 gpd with a total occupancy of NO MORE than 6 people. Daily flow volume that exceeds 75% of design rates is considered excessive. Any changes to these parameters is outside the ability of the proposed design and my cause premature failure of the system function.

Table 1: 1709 Star Cross Dr Relative Elevations

Data Point	Rod Reading (feet)	Relative Elevation (feet)	SWC (feet)	SWC Relative Elevation (feet)	Trench Depth (feet)	Trench Depth RE (feet)	SWC / Trench Separation (feet)	Trench Depth (inches)	Trench Depth below TBM (inches)
TBM-	4.45	20.00							
PT	8.30	16.15							
Initial									
Flag A	5.60	18.85	2.67	16.18	1.32	17.53	1.35	16	30
Flag B	5.70	18.75	2.67	16.08	1.22	17.53	1.45	15	30
Flag C	5.00	19.45	2.67	16.78	1.42	18.03	1.25	17	24
Flag D	5.20	19.25	2.67	16.58	1.22	18.03	1.45	15	24

Elevations are RELATIVE to the TBM and are NOT A SURVEY

Nicholas P. Howell LSS
NC LSS #1294
CPSS# 328892
SC Soil Classifer #113
Drawing by SNB
Job #P.ENV0002692
Printed on 11 x 17" Paper

DAVEY Resource Group
3805 Wrightsville Ave, Suite 15
Wilmington, NC 28403
910-452-0001

This is NOT a survey
This is NOT a Permit and does NOT Guarantee a Permit
****Final Permitting subject to approval by Brunswick County DEH****
*****Findings are based upon current site conditions, any alteration to the areas proposed for wastewater treatment can affect the provisionally suitable status of the soil resources*****

Property Lines and Dimensions are referenced from a Oct. 1, 1974 survey by David B. Goldston Jr With DRG site testing overlay