

Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

521707

ISSUED TO: KEN DAWSON HOMES
NEW REPAIR EXPANSION
Type of Structure: 3-BEDROOM 50'x44' STD
Proposed Wastewater System Type: 50% REDUCTION PPBPS
Projected Daily Flow: 360 GPD
Number of bedrooms: 3 Number of Occupants: 6 max
Basement Yes No
Pump Required: Yes No May be required based on final location and elevations of facilities
Type of Water Supply: Community Public Well Distance from well NA feet
Permit conditions: _____

PROPERTY LOCATION: 40 SNOW GOOSE CIR. (NEIGHBORS ROAD)
SUBDIVISION: BENNETT PLACE LOT # 18
Site Improvements required prior to Construction Authorization Issuance: _____

Permit valid for: Five years
 No expiration

Authorized State Agent: [Signature] Date: 12/04/2020 SEE ATTACHED SITE SKETCH
The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

Construction Authorization

(Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: KEN DAWSON HOMES
Facility Type: 3-6250'x44' STD New Expansion Repair
Basement? Yes No Basement Fixtures? Yes No
Type of Wastewater System** HO12. 50% REDUCTION PPBPS STD.
(See note below, if applicable)

PROPERTY LOCATION: 40 SNOW GOOSE CIR. (NEIGHBORS RD.)
SUBDIVISION: BENNETT PLACE LOT # 18

HO12. 50% REDUCTION (Repair)
Installation Requirements/Conditions
Septic Tank Size 1000 gallons Exact length of each trench 69 feet Trench Spacing: 9 Feet on Center
Pump Tank Size 1000 gallons Trenches shall be installed on contour at a Maximum Trench Depth of: 20 inches (Maximum soil cover shall not exceed 36" above the trench bottom)
Pump Requirements: _____ ft. TDH vs. _____ GPM Aggregate Depth: NA inches below pipe
Conditions: PUMP TO PRESSURE MANIFOLD (ATTACHED) NA inches above pipe
NA inches total

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

**If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.
Owner/Legal Representative Signature: _____ Date: _____

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent: [Signature] Date: 12/04/2020
ANDREW CURRIN Construction Authorization Expiration Date: 12/04/2025

Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

521707

ISSUED TO: KEN DAWSON HOMES PROPERTY LOCATION: 50 SNOW GOOSE CIR. (NEIGHBORS ROAD) SUBDIVISION: BENNETT PLACE LOT # 19

NEW REPAIR EXPANSION Site Improvements required prior to Construction Authorization Issuance: _____

Type of Structure: 3-BEDROOM 50'x44' STD

Proposed Wastewater System Type: 50% REDUCTION PP605

Projected Daily Flow: 360 GPD

Number of bedrooms: 3 Number of Occupants: 6 max

Basement Yes No

Pump Required: Yes No May be required based on final location and elevations of facilities

Type of Water Supply: Community Public Well Distance from well NA feet Permit valid for: Five years No expiration

Permit conditions: _____

Authorized State Agent: [Signature] Date: 12/04/2020 SEE ATTACHED SITE SKETCH

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

Construction Authorization

(Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: KEN DAWSON HOMES PROPERTY LOCATION: 50 SNOW GOOSE CIR. (NEIGHBORS ROAD) SUBDIVISION: BENNETT PLACE LOT # 19

Facility Type: 3-BD 50'x44' STD New Expansion Repair

Basement? Yes No Basement Fixtures? Yes No

Type of Wastewater System** HOHZ. 50% REDUCTION PP605 SYS (Initial) Wastewater Flow: 360 GPD

(See note below, if applicable)

HOHZ. 50% RED. PP605 (Repair)

Installation Requirements/Conditions	Number of trenches <u>3</u>	
Septic Tank Size <u>1000</u> gallons	Exact length of each trench <u>30, 52, 52</u> feet	Trench Spacing: <u>9'</u> Feet on Center
Pump Tank Size <u>1000</u> gallons	Trenches shall be installed on contour at a Maximum Trench Depth of: <u>18</u> inches (Trench bottoms shall be level to +1/4" in all directions)	Soil Cover: <u>6</u> inches (Maximum soil cover shall not exceed 36" above the trench bottom)
Pump Requirements: _____ ft. TDH vs. _____ GPM		Aggregate Depth: <u>NA</u> inches below pipe <u>NA</u> inches above pipe <u>NA</u> inches total

Conditions: PUMP TO PRESSURE MANIFOLD (ATTACHED)

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

**If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Signature: _____ Date: _____

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent: [Signature] Date: 12/04/2020

ANDREW CORNIN Construction Authorization Expiration Date: 12/04/2025

SFD 2005-0019

Application # SFD 2011-0047

Harnett County Department of Public Health Site Sketch

40 S.W.D GOOSE CIR.

Property Location: 50 S.W.D GOOSE CIR. (NEIGHBORS ROAD - S.W. 1707)

Issued To: KEN DAWSON HOMES Subdivision BERWITT PLACE Lot # 18+19

Authorized State Agent: [Signature] Date: 12/04/2020

ANDREW COMIN

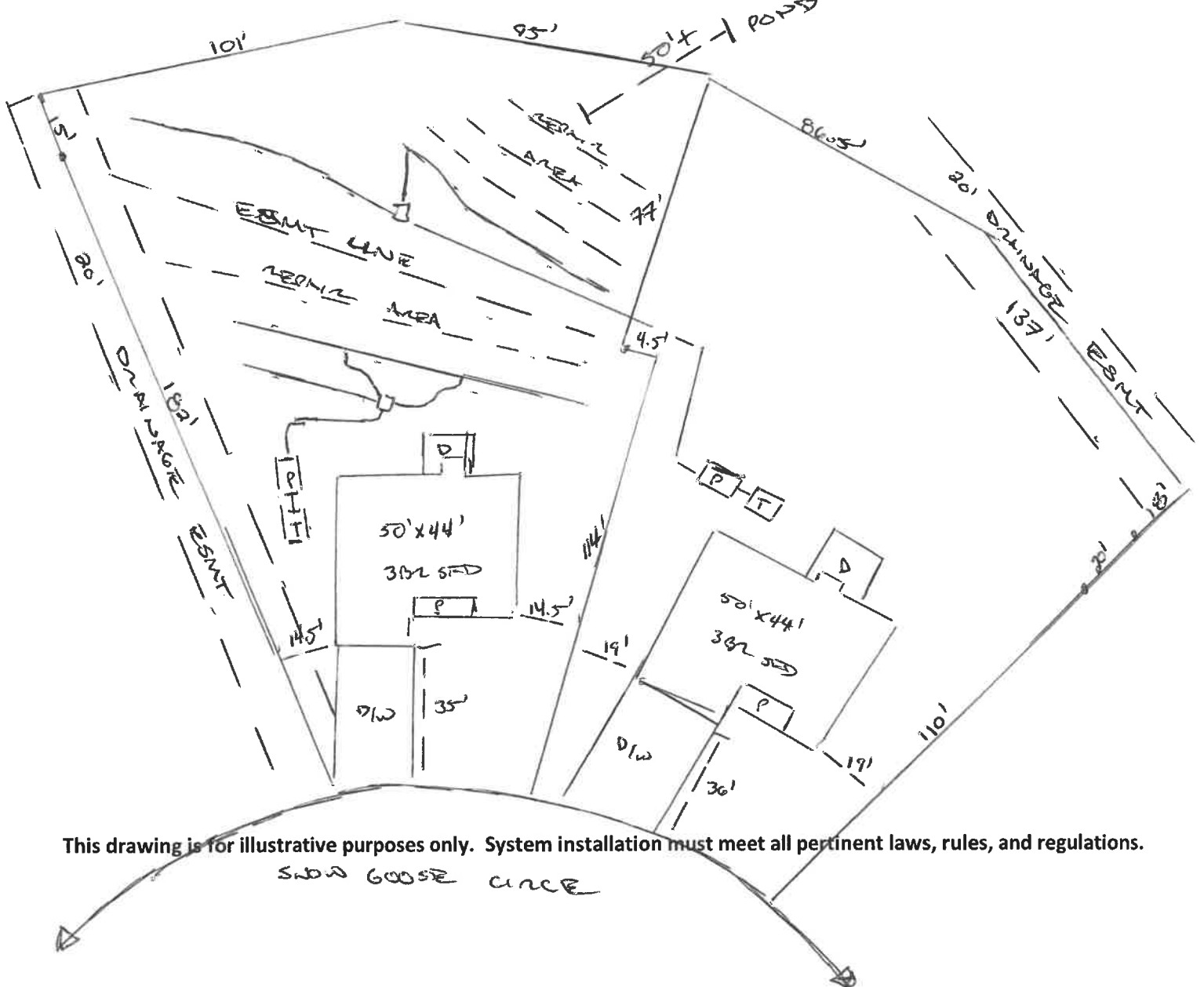
* PUMP TO PRESSURE MANIFOLD [SPECS ATTACHED]

* CONTRACTOR REVIEW LOT PRE-INSTALL

- IF SYS. CANNOT BE INSTALLED EXACTLY AS PROPOSED SITE SHALL BE REFLAGGED BY APPLICANTS SOIL SCIENTIST

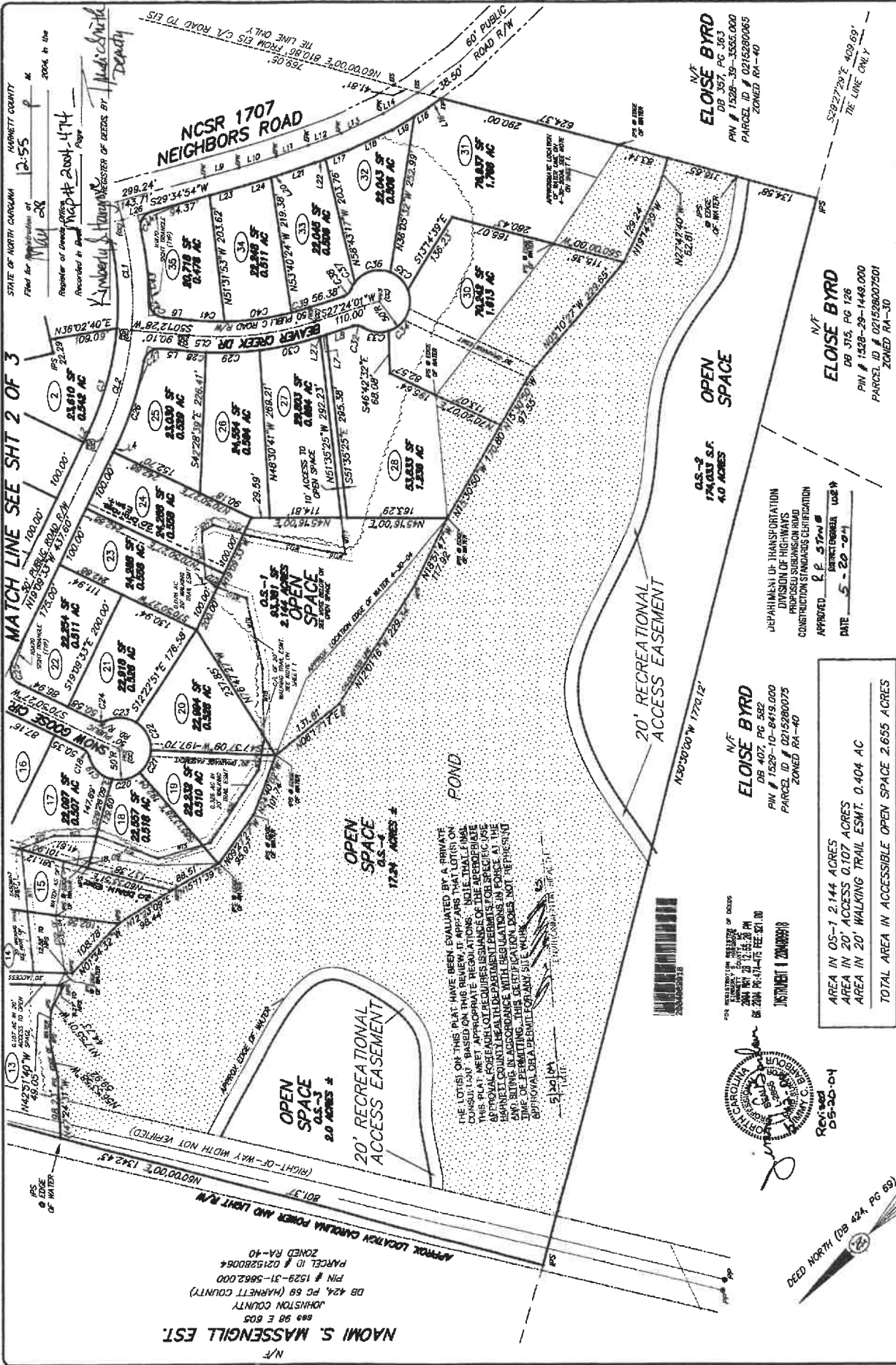
* ESMT LINE, PROPERTY LINES, & IRONS SHALL BE MARKED

HORIZONTAL
50% REDUCTION
PPBPS



This drawing is for illustrative purposes only. System installation must meet all pertinent laws, rules, and regulations.

S.W.D GOOSE CIRCE



NAOMI S. MASSEUIL EST.
JOHNSTON COUNTY
DB 424, PG 69 (HARRIETT COUNTY)
PIN # 1529-31-5862.000
PARCEL ID # 0215280064
ZONED RA-40

APPROX LOCATION CAROLINA POWER AND LIGHT R/W
PARCEL ID # 0215280064
PIN # 1529-31-5862.000
ZONED RA-40

THE LOTS ON THIS PLAT HAVE BEEN EVALUATED BY A PRIVATE CONSULTING ENGINEER BASED ON THIS REVIEW IT APPEARS THAT LOT 13 IS NOT IN CONFORMANCE WITH THE REGULATIONS IN THE TRAIL EASIMENT. THIS PLAT MUST BE AMENDED TO CORRECT THE DEFICIENCY. APPROPRIATE REGULATIONS FOR THIS PROJECT ARE AS FOLLOWS: 1. THE REGULATIONS FOR TRAIL EASIMENTS ARE SET FORTH IN THE ZONING ORDINANCE FOR THE COUNTY OF HARRIETT, NORTH CAROLINA. 2. THE REGULATIONS FOR TRAIL EASIMENTS ARE SET FORTH IN THE ZONING ORDINANCE FOR THE COUNTY OF HARRIETT, NORTH CAROLINA. 3. THE REGULATIONS FOR TRAIL EASIMENTS ARE SET FORTH IN THE ZONING ORDINANCE FOR THE COUNTY OF HARRIETT, NORTH CAROLINA. 4. THE REGULATIONS FOR TRAIL EASIMENTS ARE SET FORTH IN THE ZONING ORDINANCE FOR THE COUNTY OF HARRIETT, NORTH CAROLINA.

NO HORIZONTAL GROUND CONTROL FOUND WITHIN 2,000 FEET. AREA BY COORDINATE COMPUTATION

GRAPHIC SCALE 1"=100'

NO HORIZONTAL GROUND CONTROL FOUND WITHIN 2,000 FEET. AREA BY COORDINATE COMPUTATION

GRAPHIC SCALE 1"=100'

JIMMY C. BARBOUR
PROFESSIONAL LAND SURVEYOR
213 S. SECOND STREET
P. O. BOX 28
SMITHFIELD, N.C. 27577
(910) 588-8822 (910) 588-3013
(910) 588-8843 FAX

ELIOISE BYRD
DB 357, PG 363
PIN # 1529-39-3555.000
PARCEL ID # 0215280065
ZONED RA-40

ELIOISE BYRD
DB 315, PG 126
PIN # 1529-29-1448.000
PARCEL ID # 021528007501
ZONED RA-30

ELIOISE BYRD
DB 107, PG 582
PIN # 1529-10-6463.000
PARCEL ID # 0215280075
ZONED RA-40

AREA IN OS-1 2.144 ACRES
AREA IN 20' ACCESS 0.107 ACRES
AREA IN 20' WALKING TRAIL ESMT. 0.404 AC
TOTAL AREA IN ACCESSIBLE OPEN SPACE 2.655 ACRES

APPROVED: P.E. STEPHEN J. HEAVNER
DATE: 5-23-04

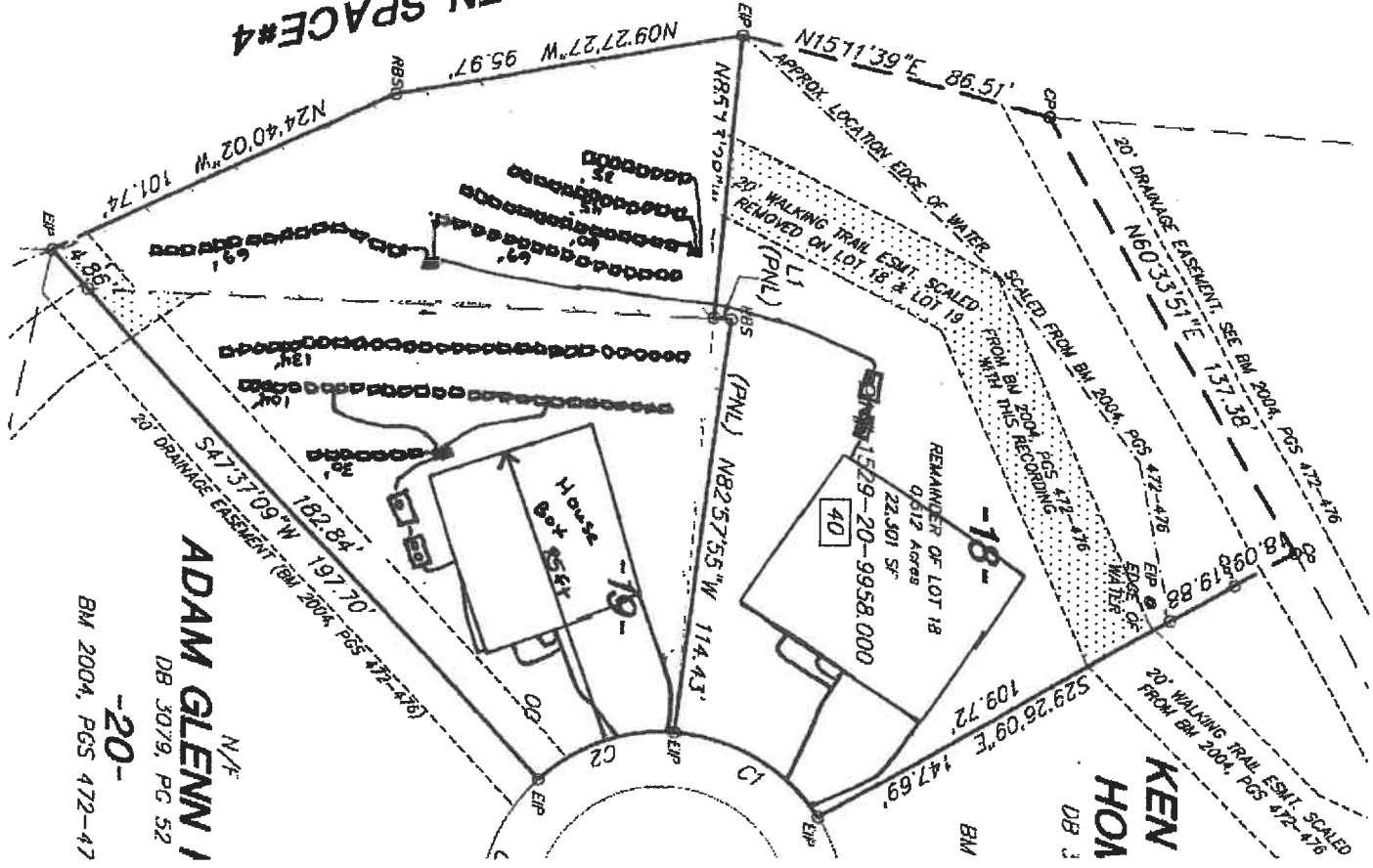
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED SUBDIVISION CLEARANCE
CONSTRUCTION STANDARDS CLEARANCE

FINAL SUBDIVISION MAP FOR
BENNETT PLACE S/D
SHEET 3 OF 3
OWNER: N/F PARNELL M. BLACKMAN (C/O DANNY BLACKMAN)
TOWNSHIP: AVERASBORO COUNTY HARRIETT STATE NC
SURVEYED BY: S. HEAVNER DRAWN BY: C. MOORE
DATE: 04-30-04 SCALE: 1"=100' DRAWING NO.: 03-001

Map # 2004-474
5-23-04

OPEN SPACE#4
2004 PGS 472-476

Iron
S
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ve)



ADAM GLENN I
N/E
DB 3079, PG 52
-20-
BM 2004, PGS 472-47

KEN HON
DB 3

Lot 18 Bennett Place SD

Pressure Manifold Design Criteria

Site Address: 40 Snow Goose Circle Subdivision: Bennett Place Lot#: 18
 PIN: _____ Permit#: _____
 # Bedrooms: 3 Daily Flow: 360 gallons (120 gal/bedroom)
 Septic Tank: 1000 gallons Pump Tank: 1000 gallons
 LTAR: 0.45 gpd/sqft Effective (trench) LTAR: 0.9 gpd/sqft for PBPS
 Absorption Area: 400 sqft Linear Length: 133 ft
 TRENCHES Length (ft): see tap chart Depth (in): 20 Stone Depth (in): PBPS
 SUPPLY LINE Length (ft): 120 Diameter: 2 " sch 40 pvc
 MANIFOLD Length (ft): 2.5 Diameter: 4" sch 80 pvc Elevation: 93.66
 # Taps 2 Tap Configuration: 6in. spacing, 1 side of manifold

Tap Chart

LTAR + 5% = 0.95

Line	Color	Relative Elevation	Length(ft)	Tap Size/ Schedule	flow (gpm) per tap	gpd/ft	LTAR gpd/sf
1	B+R	92.66-92.26	69	3/4"sch 40	12.50	2.609	0.870
2	W	92.06	69	3/4"sch 40	12.50	2.609	0.870
3							
4							
5							
Total Drainline:			138	Total Flow:	25.00		

Min total flow (gpm) to maintain 2fps scour velocity = 20.89

Calculations:

Number of Panels = 31 length of drainline divided by 4.33 ft/panel
 Dose Volume = 223.2 gallons # of panels * 7.2 gal/horizontal panel
 Dose Pump Run Time = 8.93 minutes Dose vol/total flow
 Daily Pump Run Time = 14.40 minutes Daily Flow/total flow

Drawdown (in.): 223 gallons + 0 gal/ inch = #DIV/0! inches
 Pump Tank Elevation (ft): 93.24 Pump Elevation (ft): 88.24
 Friction Head: 2.41 *Hazen Williams Formula (use supply line length+70' for fittings in pump tank)
 Elevation Head: 5.42 Design Head: 2 Total Head: 9.83 feet

Pump to Deliver: 25.00 gpm @ 9.83 ft head

NEMA 4X Simplex Control Panel with elapsed time meter, cycle counter, audible and visible alarm, hand-off-automatic (HOA) switch, and pump on separate circuits is required. A septic tank filter is required. Floats to be determined by type of pump tank used.

Possible Septic Tank: _____ Septic Filter: _____
 Possible Pump Tank: _____ Vol(gal): _____ GPI: _____
 Possible Pump: _____ pump height (in) = _____
 Possible Control Panel: _____

Lot 18 Bennett Place SD

Pressure Manifold Design Criteria

Repair System (PBPS)

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
4	B	12.33	60	3/4"sch 80	10.10	2.671	0.890
5	R	12.52	45	1/2"sch 40	7.11	2.507	0.836
6	W	12.60	35	1/2"sch 80	5.48	2.484	0.828

Total Drainline= 140 Total Flow= 22.69

LTAR: 0.45 gpd/sqft Effective (trench) LTAR: 0.90 gpd/sqft for PPBS

Pressure Head: 2 ft LTAR + 5%: 0.945 gpd/sqft

Daily Flow = 360 Total Flow = 22.69 gpm

Daily Pump Run Time = 15.9 minutes (Daily Flow/total flow)

Number of Panels = 31 (length of drainline divided by 4.33 ft/panel)

Dose Volume = 223.2 gallons (# of panels * 7.2 gal/horizontal panel)

Dose Pump Run Time = 9.8 minutes (Dose vol/total flow)

Lot 19 Bennett Place SD

Pressure Manifold Design Criteria

Site Address: 50 Snow Goose Circle Subdivision: Bennett Place Lot#: 19
 PIN: _____ Permit#: _____
 # Bedrooms: 3 Daily Flow: 360 gallons (120 gal/bedroom)
 Septic Tank: 1000 gallons Pump Tank: 1000 gallons
 LTAR: 0.45 gpd/sqft Effective (trench) LTAR: 0.9 gpd/sqft for PBPS
 Absorption Area: 400 sqft Linear Length: 133 ft
 TRENCHES Length (ft): see tap chart Depth (in): 18 Stone Depth (in): PPBS
 SUPPLY LINE Length (ft): 15 Diameter: 2 " sch 40 pvc
 MANIFOLD Length (ft): 3 Diameter: 4" sch 80 pvc Elevation: 94.59
 # Taps 3 Tap Configuration: 6in. spacing, 1 side of manifold

Tap Chart

LTAR + 5% = 0.95

Line	Color	Relative Elevation	Length(ft)	Tap Size/ Schedule	flow (gpm) per tap	gpd/ft	LTAR gpd/sf
1	W	93.59	30	1/2"sch 80	5.48	2.561	0.854
2a	B	93.24	52	3/4"sch 80	10.10	2.723	0.908
2b	B	93.24	52	3/4"sch 80	10.10	2.723	0.908
Total Drainline:			134	Total Flow:	25.68		

Min total flow (gpm) to maintain 2fps scour velocity = 20.89

Calculations:

Number of Panels = 31 length of drainline divided by 4.33 ft/panel
 Dose Volume = 223.2 gallons # of panels * 7.2 gal/horizontal panel
 Dose Pump Run Time = 8.7 minutes Dose vol/total flow
 Daily Pump Run Time = 14.0 minutes Daily Flow/total flow

Drawdown (in.): 223 gallons + _____ gal/ inch = _____ inches
 Pump Tank Elevation (ft): 94 Pump Elevation (ft): 89
 Friction Head: 1.13 *Hazen Williams Formula (use supply line length+70' for fittings in pump tank)
 Elevation Head: 5.59 Design Head: 2 Total Head: 8.72 feet

Pump to Deliver: 25.68 gpm @ 8.72 ft head

NEMA 4X Simplex Control Panel with elapsed time meter, cycle counter, audible and visible alarm, hand-off-automatic (HOA) switch, and pump on separate circuits is required. A septic tank filter is required. Floats to be determined by type of pump tank used.

Possible Septic Tank: _____ Septic Filter: _____
 Possible Pump Tank: _____ Vol(gal): _____ GPI: _____
 Possible Pump: _____ pump height (in) = _____
 Possible Control Panel: _____

Lot 19 Bennett Place SD

Pressure Manifold Design Criteria

Repair System (PBPS)

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
3	R	92.79	67	3/4"sch 40	12.50	2.687	0.896
	R	92.79	67	3/4"sch 40	12.50	2.687	0.896

Total Drainline= 134 Total Flow= 25.00

LTAR: 0.45 gpd/sqft Effective (trench) LTAR: 0.9 gpd/sqft for PPBS

Pressure Head: 2 ft LTAR + 5%: 0.945 gpd/sqft

Daily Flow = 360 Total Flow = 25.00 gpm

Daily Pump Run Time = 14.4 minutes (Daily Flow/total flow)

Number of Panels = 31 (length of drainline divided by 4.33 ft/panel)


Dose Volume = 223.2 gallons (# of panels * 7.2 gal/horizontal panel)

Dose Pump Run Time = 8.9 minutes (Dose vol/total flow)

Harnett GIS




Harnett County Public Utilities



Harnett COUNTY
10771-30100

GIS/E-911 Addressing
December 2, 2020


Recycle Center 

Landfills 

Surrounding County Boundaries 


Federal Property 


City Limits 

Harnett County Boundary  NC


Address Numbers  US

MajorRoads  Airport


Interstate 

Roads 

Mile_Markers 

Railroad 

Parcels 

1 inch = 188 feet