

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: **D 0 5 4 2 3 5**

PIN #: **0 7 8 0 3 0 8 8 5 6**

OP DATE: **0 5 / 0 4 / 2 0 1 6**

SYSTEM USE:

- ☒ House
☐ Mobile Home
☐ Business
☐ Other

SEWAGE TYPE:

- ☒ Domestic
☐ Industrial

PUMP/SIPHON?:

- ☒ Yes
☐ No

PRESSURE MANIFOLD:

- ☐ Yes
☒ No

SYSTEM TYPE:

- ☐ I
☐ II
☒ III
☐ IV
☐ V
☐ VI
☐ Other

SUB TYPE:

- ☐ A
☒ B
☐ C
☐ D
☐ E
☐ F
☐ G

NBR BEDROOMS:

- ☐ 1
☐ 2
☐ 3
☒ 4
☐ 5
☐ 6
☐ Other

MAINT. SCHEDULE:

- ☐ Yes
☒ No

CERT. OPERATOR

- ☐ Yes
☒ No

GT	ST	PT	SIZE
☐	☐	☐	750
☐	☐	☐	900
☐	☐	☐	1,000
☐	☒	☒	1,200
☐	☐	☐	1,500
☐	☐	☐	1,800
☐	☐	☐	2,100
☐	☐	☐	2,500
☐	☐	☐	3,000
☐	☐	☐	4,000
☐	☐	☐	5,000
☐	☐	☐	8,000
☐	☐	☐	10,000
☐	☐	☐	Other
☒	☐	☐	None/NA GT or PT

DRAINFIELD SIZE(SQ. FT.)

0 1 2 0 0

DRAIN TYPE:

- ☐ Stone
☒ EZ Flow
☐ Infiltrator
☐ Biodiffuser
☐ Cultec
☐ Drip
☐ Hancor
☐ Large Dia. Pipe
☐ Multi-Pipe
☐ Other

MAX DEPTH (IN.):

- ☐ 12 in. or less
☐ 18 in. or less
☐ 24 in. or less
☐ 26 in. or less
☐ 28 in. or less
☐ 30 in. or less
☐ 32 in. or less
☐ 36 in. or less
☒ Other 22 in. or less

STONE DEPTH (IN.):

- ☐ 8 in. or less
☒ 12 in. or less
☐ 18 in. or less
☐ 24 in. or less
☐ Other

TRENCHES:

- ☒ Individual
☐ Bed

TRENCH WIDTH (IN.):

- ☐ 12 in. or less
☐ 18 in.
☐ 24 in.
☒ 36 in.
☐ 6 ft. or less
☐ 9 ft. or less
☐ Other

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT
NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

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

PERMIT#: D054235 STATUS: A APP. DATE: 12/04/2015 BLDG. PERMIT#: 0161776
 PIN: 0780 30 8856 000 TAX MAP: 0 RECORDED: Y ORIG. PERMIT#:
 TOWNSHIP: 18 SWIFT CREEK JURISDICTION: WC ZONING: R40W SW DEVICE: N S#:
 APPLICANT: MERITAGE HOMES (919) 926 - 2600
 5400 TRINITY ROAD #107 RALEIGH, NC 27607
 USE: HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE EXIST USE:
 LTAR: 0.30 0.30 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0
 SITE: ADDRESS: 3801 HICKORY MANOR DR
 SUBDIVISION: BLANEY FARMS LOT: 20 ACRES: 0.69 EASEMENT: N LOC: SYS:
 DIRECTION: 401S R 1010 R BLANEY FRANKS R HICKORY MANOR DR

Well System: WATER: COMMUNITY - TYPE:

WELL LOG INFORMATION: DEPTH: _____ CASING DEPTH: _____ YIELD: _____ STATIC LEVEL: _____
 WELL CONTRACTOR: _____ REG.# _____ PUMP CONTRACTOR: _____ REG.# _____
 Construction Compliance GROUT APPROVED ☐ DATE _____ EHS _____
 WELLHEAD APPROVED ☐ DATE _____ EHS _____
 SYSTEM FINALIZED ☐ DATE _____ EHS _____

COMMENTS:

Operation Permit

DESIGN FLOW: 28.44 gal./min. ACTUAL FLOW: 27.44 DOSE VOLUME: 95 gal. INNOVATIVE LETTER:
 INSTALLED BY: Glenn Todd INSTALLATION APPROVED BY: MT Andrew J. Lake
 PROPRIETARY SYSTEM: EZ-Flow TYPE SYSTEM: III B

COMMENTS:

OPERATIONS PERMIT ISSUED? Y OP DATE: 5/4/16 BY: MT

Systems defined as either a Type IIIb, IIIg 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 and Dispersal Systems in Wake County", require Wake County Environmental Services to conduct periodic inspections on this type system, 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 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 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.

As Built Information:

Date: 4/6/16 Benchmark: _____ Rod reading: _____ Distance to Structure: 6'
 ST: 1200 gals ID#: STB 957 D.O.M.: 11/16/15 Elev.: _____ Distance to Well: _____
 PT: 1200 gals ID#: PT 170 D.O.M.: 12/14/15 Elev.: _____ Distance to P/L: 10'
 GT: _____ gals ID#: _____ D.O.M.: _____ Elev.: _____ Pretreatment: _____
 MT/D-box/FD/PM elev.: 3.72 Supply Line: 130 ft. Pump/Ctrl Panel: Gould 151/SJE Filter: Red Polylok
 Line 1: 5.6' _____ Date: _____ Line 6: _____ Rhombus Date: _____
 Line 2: 5.35' _____ Date: _____ Line 7: _____ Date: _____
 Line 3: 6.73' _____ Date: _____ Line 8: _____ Date: _____
 Line 4: 7.2' _____ Date: _____ Line 9: _____ Date: _____
 Line 5: _____ Date: _____ Line 10: _____ Date: _____
 ETM1: 564 CC1: 999828 ETM2: _____ CC2: _____ OR: _____ AC: _____ WM: _____
 Notes:

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED

UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

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

PERMIT#: D054235 STATUS: A APP. DATE: 12/04/2015 BLDG. PERMIT#: 0161776
PIN: 0780 30 8856 000 TAX MAP: 0 RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 18 SWIFT CREEK JURISDICTION: WC ZONING: R40W SW DEVICE: N S#:
APPLICANT: MERITAGE HOMES (919) 926 - 2600
5400 TRINITY ROAD #107 RALEIGH, NC 27607
HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE EXIST USE: DESIGN FEE REQ?: PAID?:
LTAR: 0.30 0.30 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUNDATION DRAIN: Y
SITE: ADDRESS: 3801 HICKORY MANOR DR
SUBDIVISION: BLANEY FARMS LOT: 20 ACRES: 0.69 EASEMENT: N LOC: SYS:
DIRECTION: 401S R 1010 R BLANEY FRANKS R HICKORY MANOR DR

IMPROVEMENT PERMIT

[] As per GS 130A-335 (f), Improvement Permit is based on a Site Plan and is void Sixty (60) months from date of issuance.

[X] As per GS 130A-335 (f), Improvement Permit is based on a Plat and is valid without expiration.

Permit is subject to revocation if the site plan or plat, whichever is applicable, or the intended use changes.

TANK SIZE: 1200 gal. PUMP Tank: 1200 gal. GREASE TRAP: gal. SQ FT: 1200 ACCEPTED STATUS MAX DEPTH LINE: 22 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III B PUMP: Y P/M: N LP: TD:
DAILY FLOW: 480 gal/day WATER: COMMUNITY PRETREATMENT: NA FILL: DAF: DEEP: REDUCE35%:
COMMENTS: IP ISSUED BASED ON CONSULTANT'S DESIGN FOR 4BR 480GPD SFD ACCEPTED STATUS SYSTEM.

IP ISSUED? Y DATE: 12/18/2015 BY: (REH) *Bartha Bunder* PHONE#: (919)-594-3069

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION
VALIDITY CONCURRENT WITH THE IMPROVEMENT PERMIT

AUTHORIZATION CONDITIONS:

Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser 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 an Operation 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 is 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 nitrification 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.

OTHER CONDITIONS: 4 (100'X3') LINES ACCEPTED STATUS PRODUCT WITH 25% REDUCTION PUMPED TO A MANITEE. LTAR IS 0.3, MAXIMUM TRENCH DEPTH IS 22". 1200GAL ST/PT. MAINTAIN ALL SETBACKS- 10' FROM PROPERTY AND HOUSE (SUPPLY LINE AND MANITEE MAY BE 5' FROM PROPERTY LINES). INSTALL TRENCHES FOLLOWING LINES FLAGGED IN FIELD. CALL WCES WITH ANY QUESTIONS PRIOR TO INSTALLATION. REPAIR WILL BE SPLIT PRESSURE MANIFOLD.

TANK SIZE: 1200 gal. PUMP TANK: 1200 gal. GREASE TRAP: gal. SQ FT: 1200 ACCEPTED STATUS MAX DEPTH LINE: 22 in.
MAINT: N OPER: N L/O: P TRENCH#: 4 LENGTH: 100 ft. WIDTH: 36 in. DESIGNER:
SUBFIELDS: __ DESIGN HEAD PRESSURE: 2 DESIGN FLOW: 28.44 gal/min DOSE VOLUME: 95 gal. PRETREATMENT: NA

CA ISSUED? Y DATE: 12/18/2015 BY: (REH) *Bartha Bunder* PHONE#: (919)-594-3069

BUILT

AS BUILT

NOTE:

0780308856

I certify that the location of planned or existing structure(s) are accurately shown. I understand failure to locate structures in accordance with this plot plan may require the relocation of structure(s) regardless of degree of completion. I hereby grant permission to Municipal/County Representatives the right of entry to make evaluations or inspections upon this property.

ALL DIMENSIONS, LOCATIONS AND FEATURES SHOWN ON THIS PLOT PLAN ARE APPROXIMATE AND ARE ONLY AN ARTIST'S RENDERING, EXACT LOCATION OF ALL FEATURES ARE SUBJECT TO CHANGE AND MAY NOT BE INSTALLED EXACTLY AS SHOWN ON PLANS AND/OR IN MODELS. PLACEMENT OF HOME, DRIVEWAY, SIDEWALKS AND EXTERIOR FEATURES ARE SUBJECT TO MODIFICATION AS DEEMED NECESSARY BY FIELD PERSONNEL.

LOT INFORMATION:

LOT #20
PIN: 0780308856
REID: 427067
REFERENCE: DB 15636, PG 442
ADDRESS: 3801 HICKORY MANOR DRN
TOTAL LOT AREA = 0.689 AC = 30,000 SF
MAX. IMPERVIOUS = 5,247 SF
HOUSE = 2,773 SF
DRIVEWAY = 1,100 SF
SIDEWALK = 351 SF
PORCH = 70 SF
PROPOSED IMPERVIOUS = 4,294 SF
PERCENT IMPERVIOUS = 14.3 %

Signature of Owner or Authorized Agent

CUSTOMER

DATE

CUSTOMER

DATE

Zoning R40W By EBH
Approve X Date 12-4-15
Revise _____ Use 101A
Reject _____ MBL _____
Front 15 Rear 15
Side 7.5 Corner _____
Comments: Cluster SFD

Permit 016177
DO5A235

SURVEY CO.,
PLS.

ID PERMITTING

NESS SHOWN WERE
IG DEEDS AND
SUPPLIED TO THE

LONGITUDE AND
VEN IN NORTH

I, EPOCH 35.

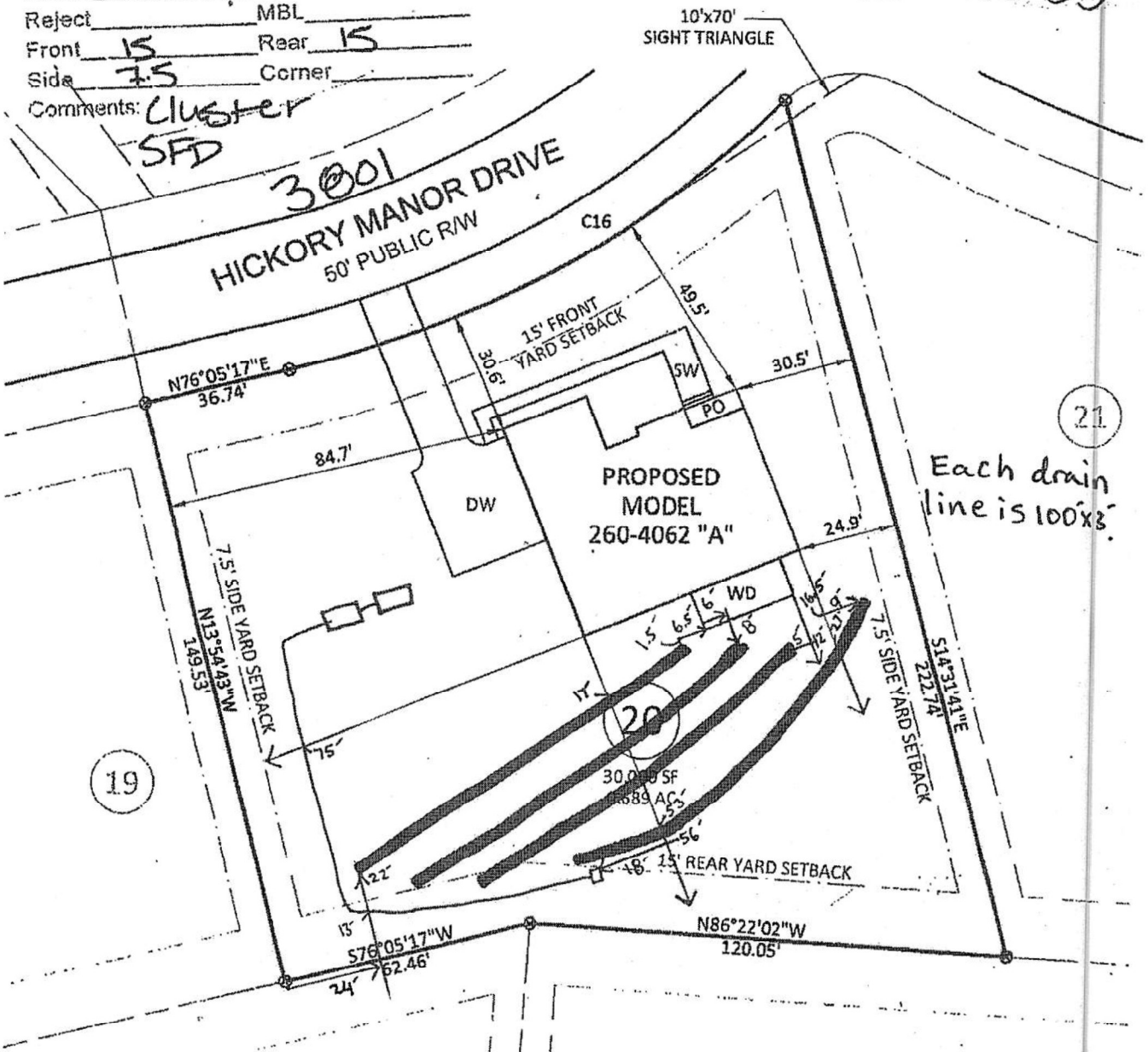
ANCES AND ALL
COORDINATE

NOT BEEN
OR COMPLIANCE
GULATIONS.

L FLOOD
MAP COMMUNITY

NCE OF UTILITIES
10' AT REAR AND

CAROLINAS, INC.
3H, NC 27607



1"=40'

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

4 TAP PRESSURE MANI-TEE DESIGN

Name: Meritage Homes **P.I.N. #:** 0780308856 **D#:** 54235
Address: 3801 Hickory Manor Dr **Subdiv:** Blaney Farms **Lot#:** 20
of BDR: 4 **Daily Flow:** 480 gal/day **L.T.A.R.:** 0.30 gal/day/sq.ft
Septic Tank: 1200 gals **Pump Tank:** 1200 gals **Sq. Foot:** 1200 **Stone Depth:** AS
Number of Taps: 4 **Length of Trenches:** 400 ft(See Tap Chart for Details)
Depth of Trenches: 22 in **Manifold Length:** 42 in
Manifold Diameter: 2in sch 40pvc Mani-Tee **Tap Configuration:** 6 in spacing 1 side(s) of manifold
Supply Line: length: 150 ft **Diameter:** 2 in sch 40pvc
Friction Loss + Fitting Loss: 4.16 ft(supply line length + 70' for fittings in pump tank)
Design Head: 2 ft **Elevation Head:** 2.50 ft
Total Head: 8.66 ft **Pump to Deliver:** 28.44 gals/min at 8.66 ft head
Dosing Volume: 195 gals,
Drawdown: 195 gals divided by 20 gals/in = 9.8 inches

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

TAP CHART

Bench Mark	is = 100.00	set at					Design Head:	2		
Pump tank elev.			100.00	Pump elev.	95.00		Manifold elev.	97.50		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE	LTAR
1	pink	3.5	96.50	100	1/2in SCH 40	7.11	120.00	300		0.400
2	red	4.1	95.90	100	1/2in SCH 40	7.11	120.00	300		0.400
3	orange	4.6	95.40	100	1/2in SCH 40	7.11	120.00	300		0.400
4	yellow	5.1	94.90	100	1/2in SCH 40	7.11	120.00	300		0.400
		total	feet =	400	gal/min =	28.44			LTAR =	0.30
% of Dose Vol.	75			Des. Flow	480				(ltar + 5%)	0.32
Dose Volume	195			Pump Run=	16.88				(ltar W/ INOV)	0.40
Dose Pump Time	6.86			Tank Gal/IN	20				(ltar + 5%)	0.42
Drawdown in Inches	9.8			Elev. Head	2.50					
Supply Line Length	150									
Comments:										

Hydraulic Profile

Manifold Elevation	97.50	150
Pump tank elev.	100.00	2
Pump elev.	95.00	0