

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-050906-2020****APPLICATION DATE:** 12/22/2020**BLDG. PERMIT#:** RBPR-049666-2020**PIN:** 0799680010**RECORDED:** Yes**TOWNSHIP:** 02 - Bartons Creek**JURISDICTION:** Wake County**ZONING:** R-40W

APPLICANT: Monterey Bay Raleigh, LLC
Monterey Bay, LLC McLamb
8801 West Gate Park DR

BUSINESS PHONE: (919) 277-9921**HOME PHONE:****MOBILE PHONE:****HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE**EXISTING USE:****SITE ADDRESS:** 2424 HEARTLEY DR**SUBDIVISION:** MONTREAUX SUB PH 1**LOT:** 13**ACRES:** 1.08

DIRECTIONS: HWY 50 North of 540 to Norwood Road. Make a right on Norwood. Montreraux is on the right. First left on Hannahs View drive. Turn right onto Heartley drive. Lot 13 is on the left.

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:** Alexander Merrell**ISSUED DATE:** 01/18/2022

SEPTIC TANK: David Brantley & Sons - STB-323 - 1250 gallons **DATE OF MANUFACTURE:** 09/23/2021 **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:** 10/07/2021 **FILTER:**

CC1: 999,811**ETM1:** 0**CC2:****ETM2:****RECIRCULATION TANK:****DATE OF MANUFACTURE:****CC1:****ETM1:****CC2:****ETM2:**

SEPTIC TANK ELEVATION: 9.08

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION: 9.51

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 3

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
22	12	135	5.8333
22	12	135	5.4167
22	12	135	4.9167

ACTUAL PRESSURE HEAD: 3

ACTUAL FLOW RATE: 26

ACTUAL DOSE VOLUME: 172

SPECIFIC OPERATION REQUIREMENTS:

- 480 GPD design flow, 4 bedroom single family residence system.
- Champion 3 pump installed

ISSUED BY:



DATE: 01/18/2022

PRELIMINARY PLOT PLAN FOR

A.R. HOMES

LOT 13, MONTREAX

2424 HEARTLEY DRIVE

REF: B.M. 2018, PAGE 1518-1520

BARTONS CREEK TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

AUGUST 28, 2020

REVISED MAY 3, 2021

REVISED JUNE 3, 2021

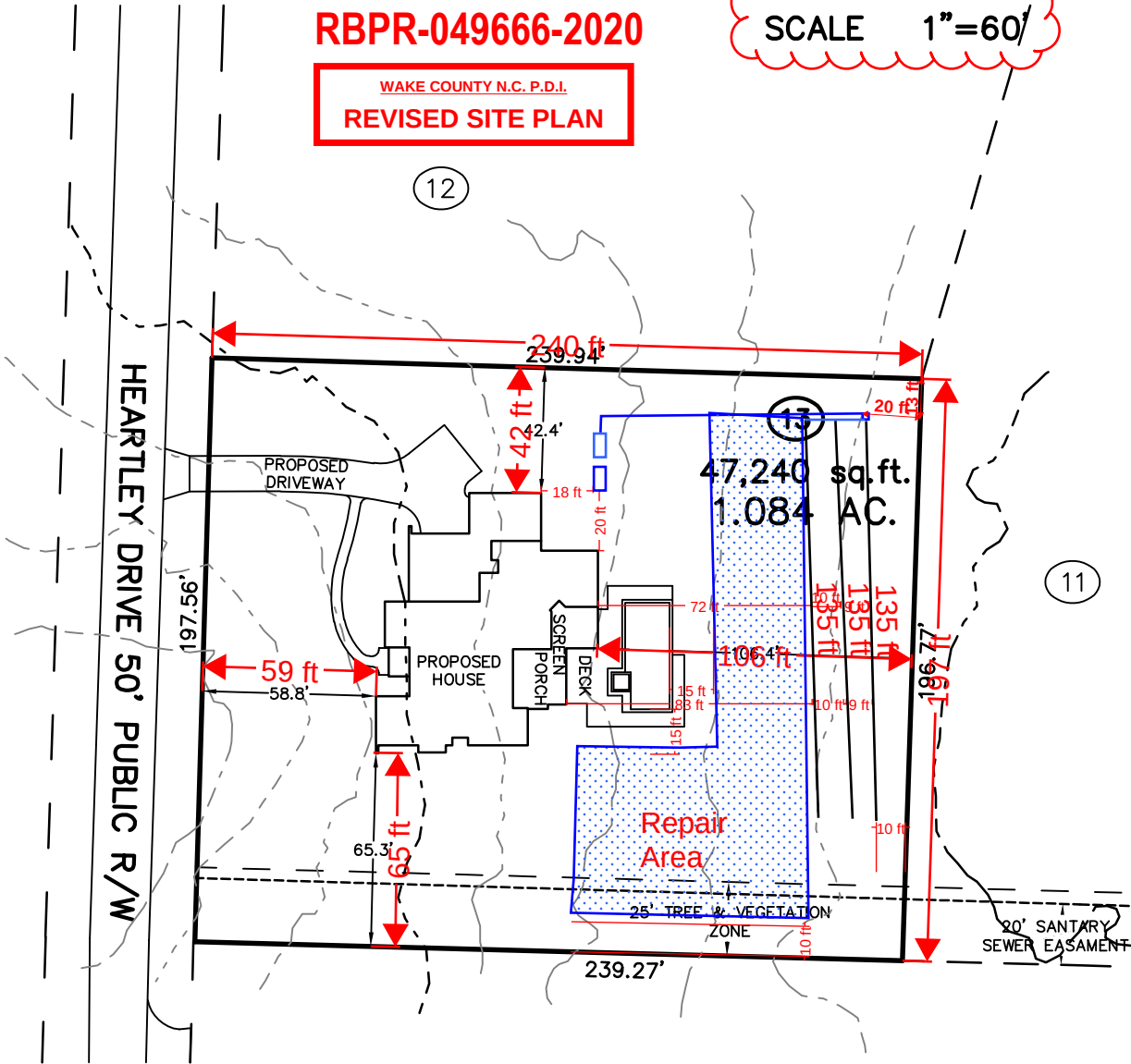
ZONED R-40W



SCALE 1"=60'

RBPR-049666-2020

WAKE COUNTY N.C. P.D.I.
REVISED SITE PLAN



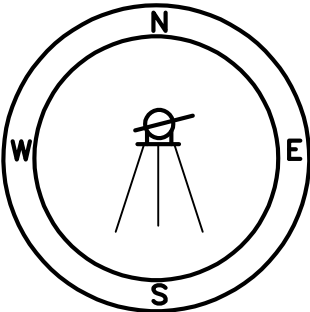
IMPERVIOUS SURFACE TABLE

HOUSE	4,089 S.F.
SCREEN PORCH	577 S.F.
DRIVEWAY	2,389 S.F.
POOL DECK/APRON	657 S.F.
SIDEWALKS	259 S.F.
MISC/UTILITIES	21 S.F.
TOTAL IMPERVIOUS AREA	7,992 S.F.
MAX IMPERVIOUS	8,500 S.F.

N/F
STANCIL, ROBERT S
STANCIL, ANNE K
D.B. 11019 P.G. 2299
PIN# 799670840



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



CAWTHORNE, MOSS
& PANCIERA, P.C.

Professional Land Surveyors

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
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WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

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CONSTRUCTION AUTHORIZATION PERMIT**PERMIT # WRP-050906-2020****APPLICATION DATE:** 12/22/2020**BLDG. PERMIT#:** RBPR-049666-2020**PIN:** 0799680010**RECORDED:** Yes**TOWNSHIP:** 02 - Bartons Creek**JURISDICTION:** Wake County**ZONING:** R-40W**APPLICANT:** Monterey Bay Raleigh, LLC
8801 West Gate Park DR
Raleigh, NC 27617**BUSINESS PHONE:** (919) 277-9921**HOME PHONE:****MOBILE PHONE:****HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE**EXISTING USE:****SITE ADDRESS:** 2424 HEARTLEY DR**SUBDIVISION:** MONTREAUX SUB PH 1**LOT:** 13**ACRES:** 1.08**DIRECTIONS:** HWY 50 North of 540 to Norwood Road. Make a right on Norwood. Montreraux is on the right. First left on
Hannahs View drive. Turn right onto Heartley drive. Lot 13 is on the left.

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:** Jeremy Davis**DATE:** 01/14/2022**CA VALID FOR:** Five Years**DESIGN FLOW:** 480 GALLONS**BASEMENT:** No**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:****DRAINFIELD SQ. FT:** 1,215**AGGREGATE DEPTH:** 12**MAX. TRENCH DEPTH:** 23 INCHES**DISTRIBUTION DEVICE:** PM - Pressure Manifold**TRENCH #:** 3**TRENCH LENGTH:** 135 FEET**TRENCH WIDTH:** 36 INCHES**TOTAL TRENCH LENGTH:** 405 FEET**CENTER SPACING:** 9 FEET**MINIMUM SOIL COVER:** 6 INCHES

PRETREATMENT:
SUBFIELDS #:
PUMP TDH: 16.69 FEET

APPROVAL #:
PUMP DESIGN FLOW: 26.13
ZONE VALVE: No

ASDMS REQUIRED: No
P.E. SIGN OFF/ASBUILT REQUIRED: No

LINE OF CREDIT REQUIRED: No

OPERATOR REQUIRED: No

TRIPARTY AGREEMENT REQUIRED: No

SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:

- System designed for 4 bedroom home, having 480 gals per day (Design Flow).
- Future Repair is a IIIB type system. With a Max Trench depth of 23 and a 0.30 LTAR.
- Site serviced by Community Well water.
- Any deviation from accepted design must be approved by the Consultant (CCSC) and Wake County ES prior to system installation.
- (If drain line flags removed contact your consultant to reflag.)
- Maintain all required setbacks.
- All property lines must be fully marked at time of install or reinspection required.
- Please contact (Jeremy Davis – 919-868-4982) with any questions prior or during install.

Issued By:



Date: 01/14/2022

PRELIMINARY PLOT PLAN FOR

A.R. HOMES

LOT 13, MONTREAX

2424 HEARTLEY DRIVE

REF: B.M. 2018, PAGE 1518-1520

BARTONS CREEK TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

AUGUST 28, 2020

REVISED MAY 3, 2021

REVISED JUNE 3, 2021

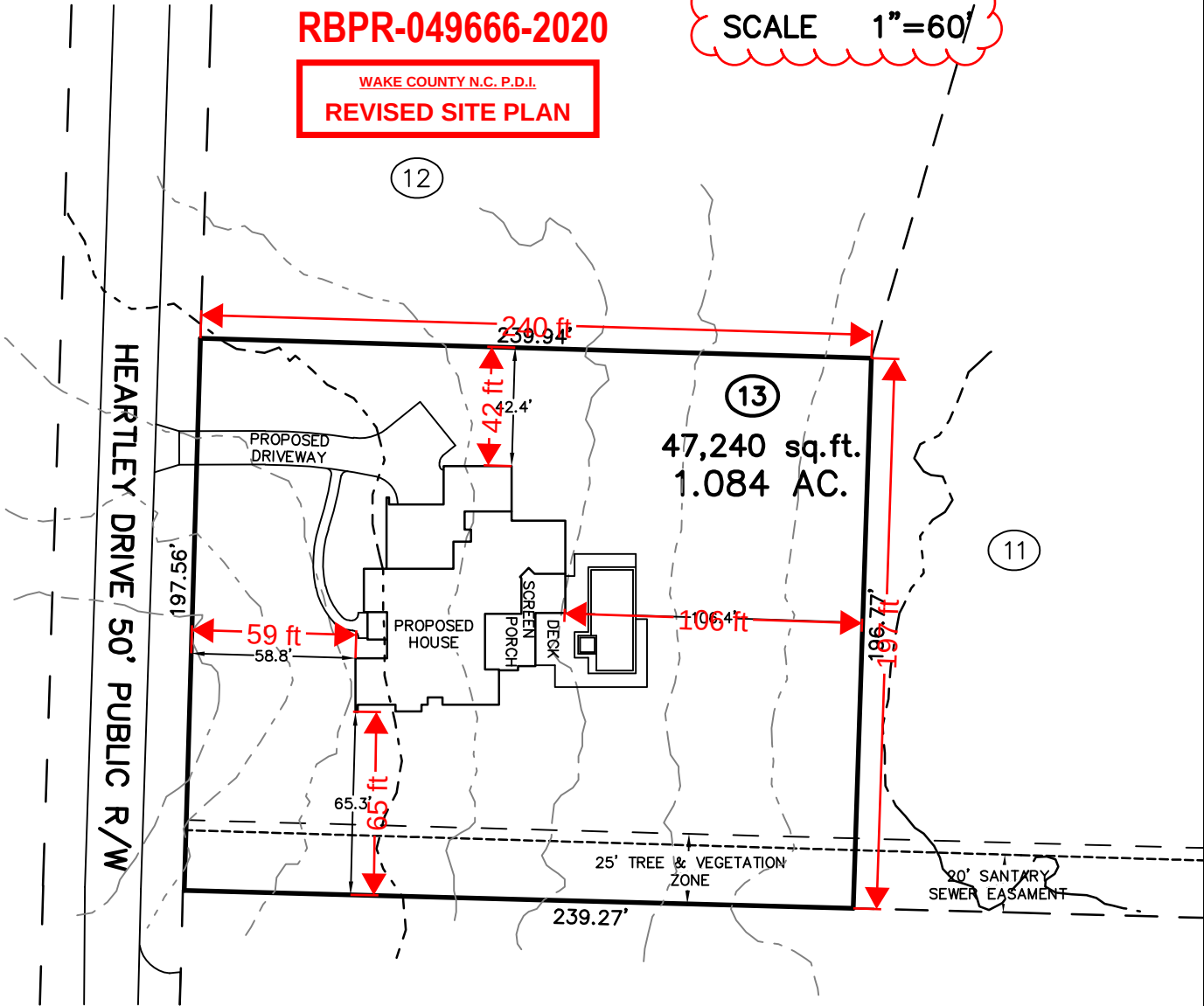
ZONED R-40W



SCALE 1"=60'

RBPR-049666-2020

WAKE COUNTY N.C. P.D.I.
REVISED SITE PLAN



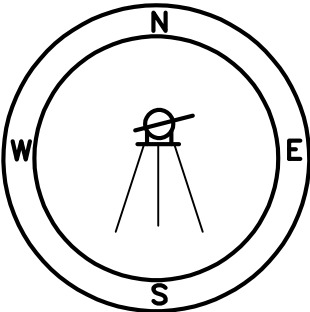
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STANCIL, ANNE K
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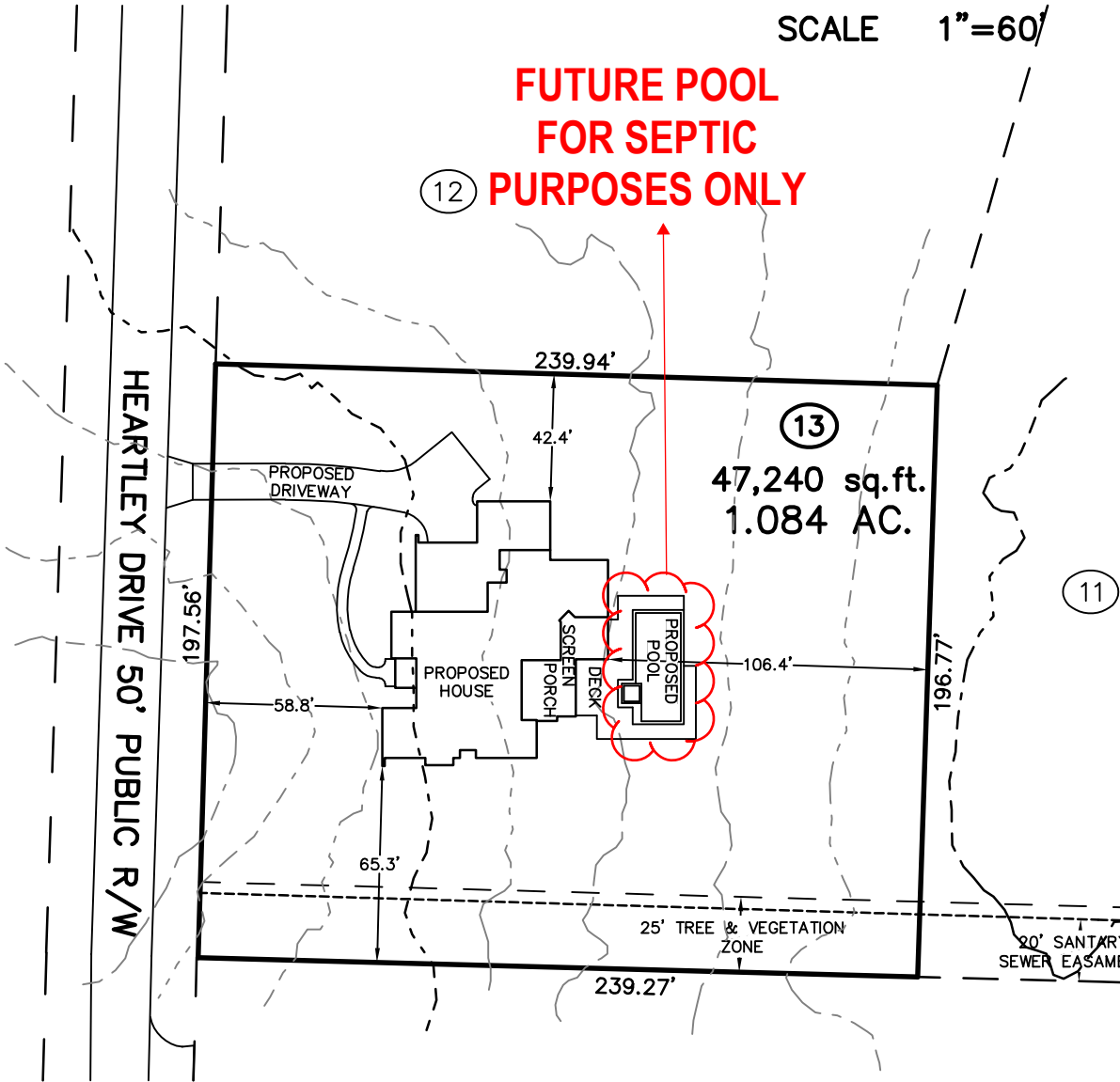
REVISED JUNE 3, 2021

ZONED R-40W



SCALE 1"=60'

FUTURE POOL
FOR SEPTIC
PURPOSES ONLY

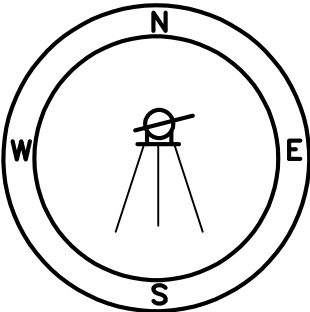


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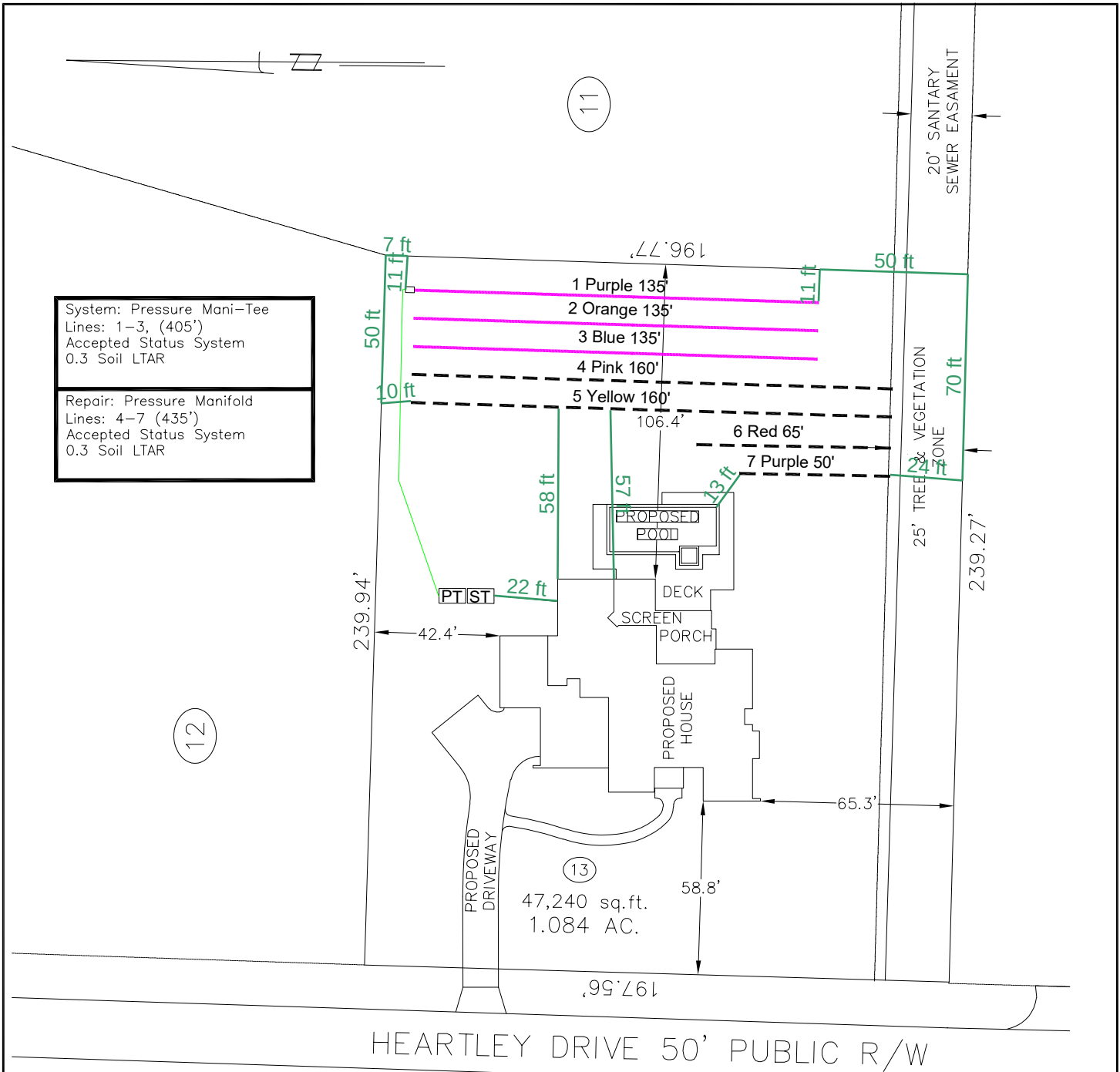


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- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.

System: ———
Repair: - - - -

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
Lot 13, Montreaux Subdivision
Wake County, North Carolina

Job# : 3538
Drawn By : AH
Date : 6/4/2021
Revision: 9/1/21

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

3 TAP PRESSURE MANI-TEE DESIGN

Name: Nick McLamb P.I.N. #: 799680010 Permit #: WRP-050906-2020

Address: 2424 Heartley Drive Subdiv: Montreaux Lot#: 13

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: 1215 Aggregate Depth: 12

Number of Taps: 3 Length of Trenches: 405 ft(See Tap Chart for Details)

Depth of Trenches: 23 in Manifold Length: 36 in

Manifold Diameter: 2in sch 40pvc Mani-Tee Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 90 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.59 ft(supply line length + 70' for fittings in pump tank)

Design Head: 3 ft Elevation Head: 11.10 ft

Total Head: 16.69 ft Pump to Deliver: 26.13 gals/min at 16.69 ft head

Dosing Volume: 174 gals,

Drawdown: 174 gals divided by 20 gals/in = 8.7 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, see permit details for specifics.

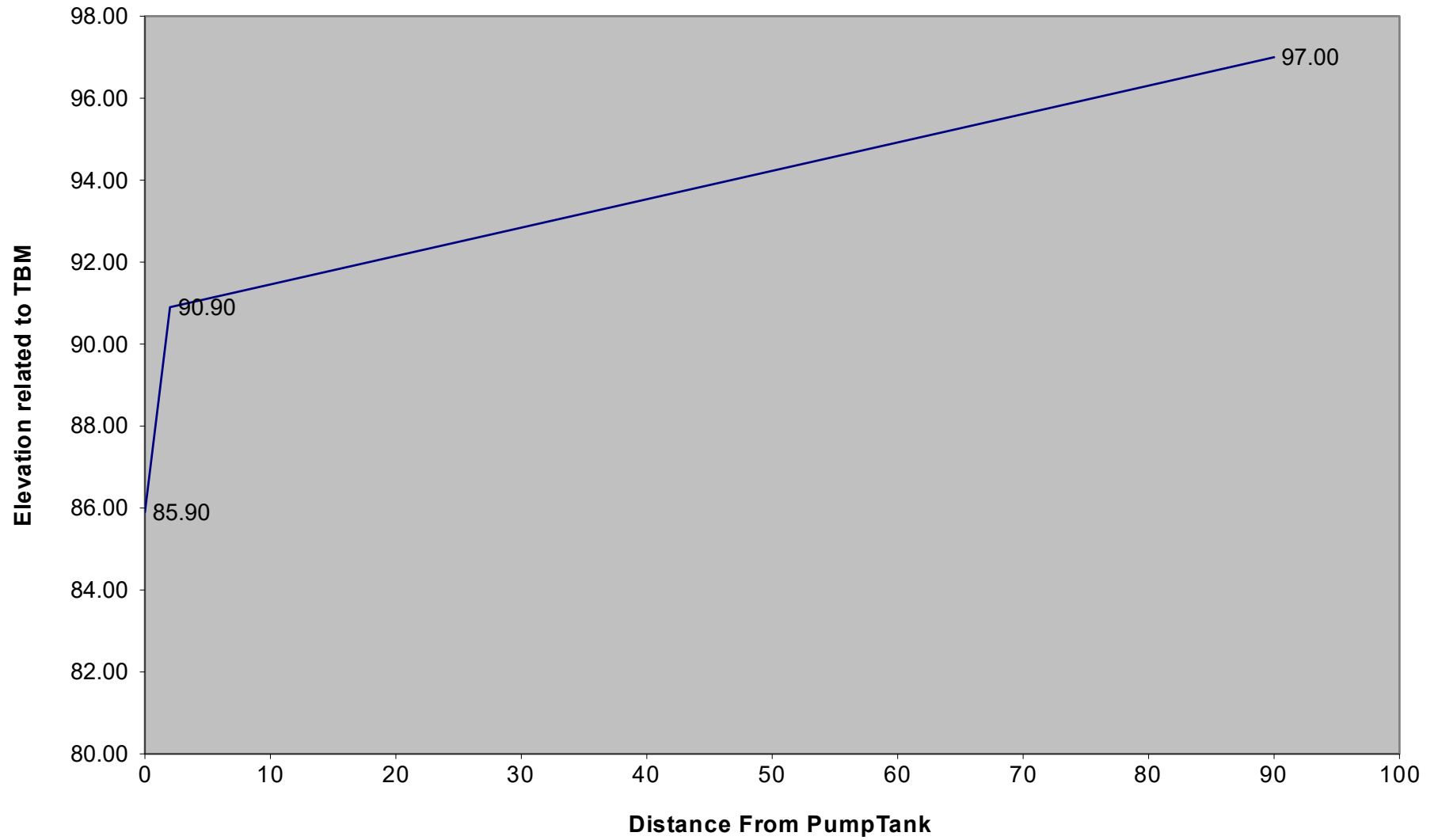
TAP CHART

Bench Mark	is = 100.00 set at						Design Head:	3	
Pump tank elev.		<u>9.1</u>	90.90	Pump elev.	85.90		Manifold elev.	97.00	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Purple	4.0	96.00	<u>135</u>	1/2in SCH 40	8.71	160.00	405	0.395
2	Orange	4.3	95.70	<u>135</u>	1/2in SCH 40	8.71	160.00	405	0.395
3	Blue	4.7	95.30	<u>135</u>	1/2in SCH 40	8.71	160.00	405	0.395
		total	feet =	405	gal/min =	26.13		LTAR =	0.30
% of Dose Vol.		<u>66</u>		<u>Des. Flow</u>	480			(ltar + 5%)	0.32
Dose Volume		174		<u>Pump Run=</u>	18.37			(ltar W/ INOV)	0.40
Dose Pump Time		6.65		<u>Tank Gal/IN</u>	20			(ltar + 5%)	0.42
Drawdown in Inches		8.7		<u>Elev. Head</u>	11.10				
Supply Line Length		90							
Comments:									

Hydraulic Profile

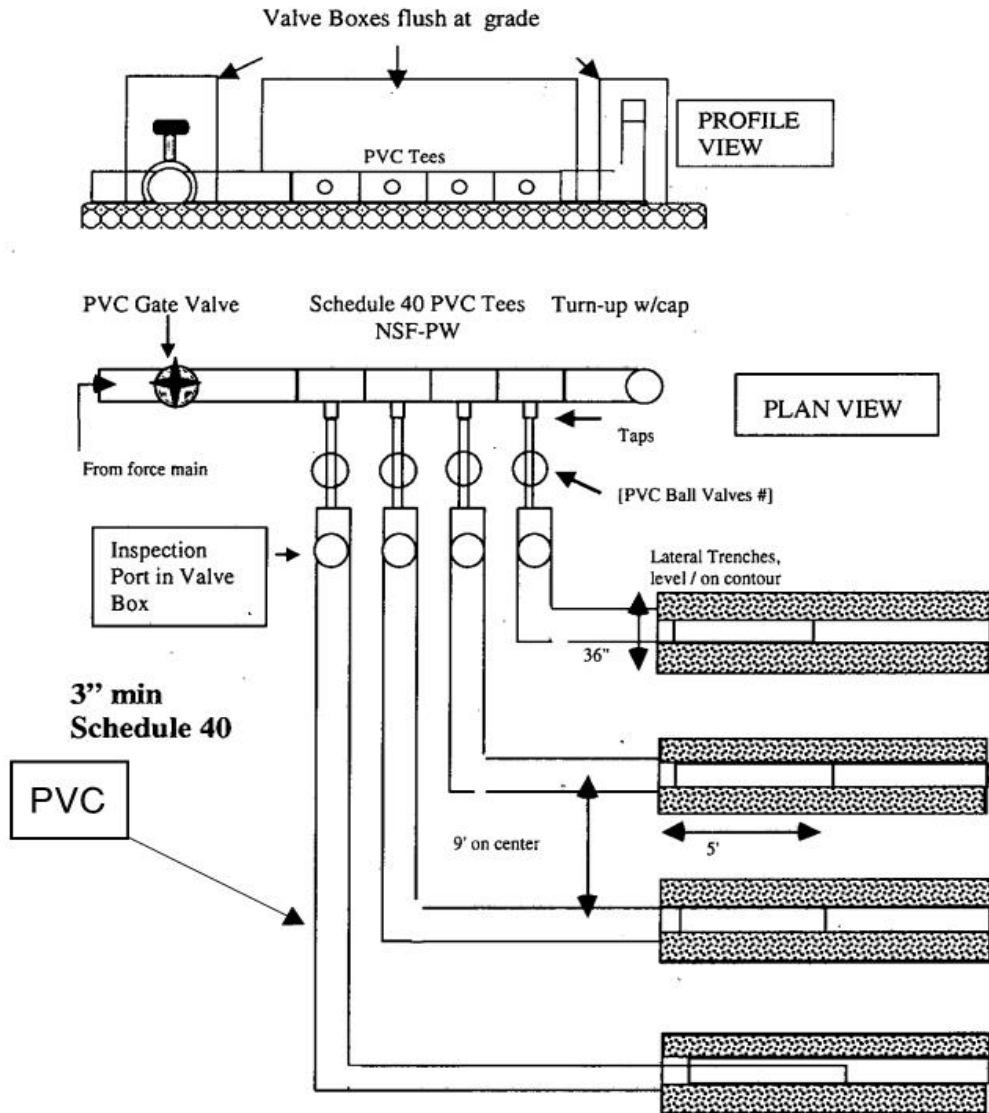
Manifold Elevation	97.00	90
Pump tank elev.	90.90	2
Pump elev.	85.90	0

Hydraulic Profile



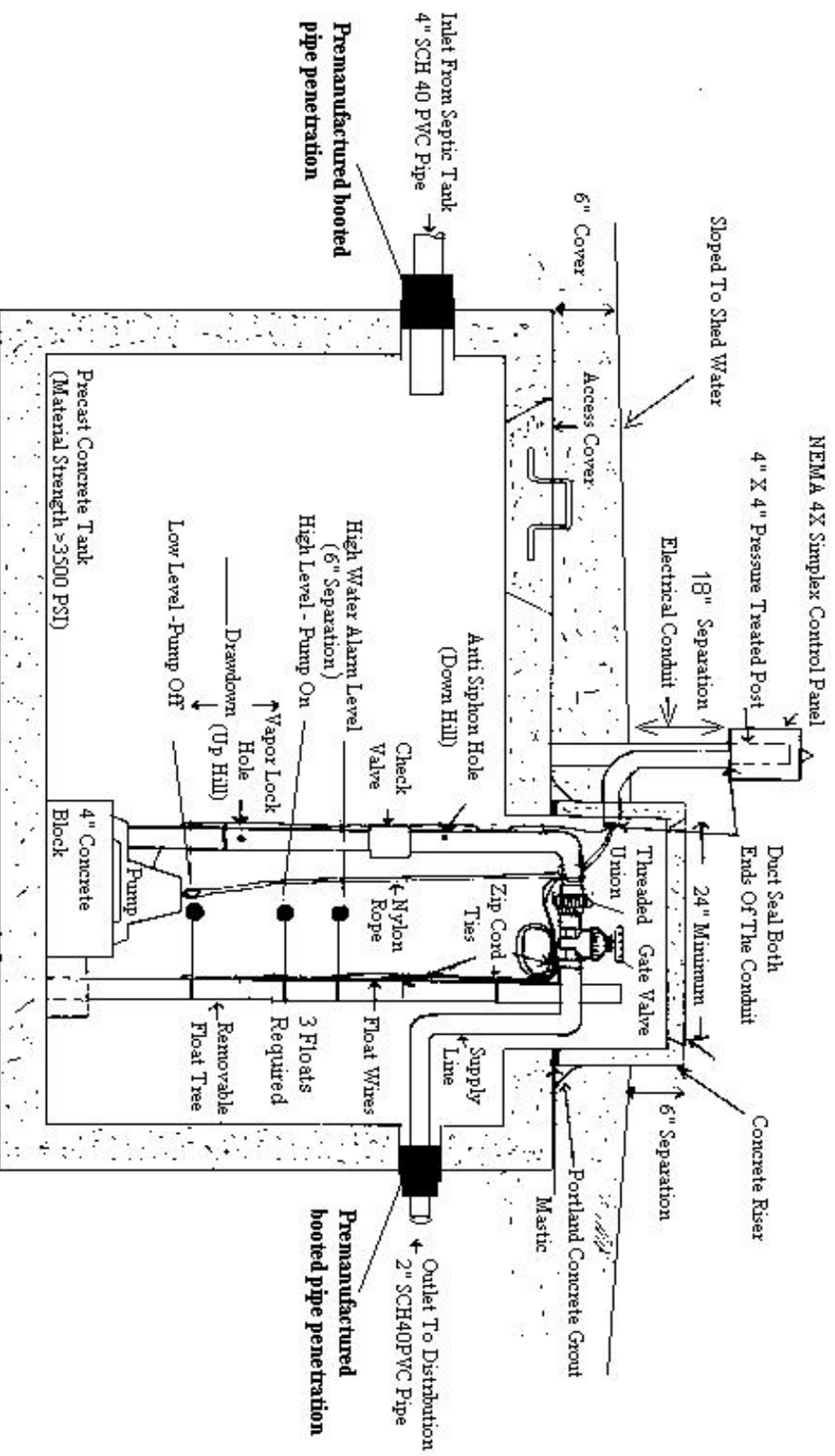
	Line 1	Line 2	Line 3
Taps	1/2in SCH 40	1/2in SCH 40	1/2in SCH 40
Flow	8.71	8.71	8.71

Wake County Mani-Tee Design



*** Manifold sizing may need to be altered after installer layout. The installer must layout the system prior to the pre-construction conference ***

Wake County Department Of Environmental Services



GALLON PUMP TANK

1200 Gals Pump Tank

Minimum Panel Requirements

The following items will be considered the minimum for all pump systems:

1. It must be a NEMA 4X Box.
2. It must use a HOA (Hand, Off, Auto) switch to control the pump. No more use of piggyback plugs!
3. It must have a motor contactor to prevent high voltage electricity in the water at all times.
4. It must have an audible and visual alarm.
5. **All Pressure Manifold and LPP Systems must have an elapsed time meter and cycle counter installed in the panel.**
6. It must have 2 separate power supplies, wired from the fuse panel at the house.
7. All panels must have 2 circuit breakers installed in the panel to allow for disconnecting of power, so that the pump or switches maybe serviced.
8. Panels and pumps are to be wired at the time of our inspection. Power must be supplied by use of generators or from the house temporary meter, if the builder applied for it and has had all required inspections and the temporary meter has been set. **We will no longer inspect any system that has been hot wired from the temporary power pole or jumped through the house wiring without a meter being set.**

Pressure Manifolds

1. A float tree or hanging floats must be used.
2. A Simplex Control Panel with a Hand - Off - Auto switch and alarm in a NEMA - 4X box is required. See the plans or CA comments for further details on the panel.
3. 2 separate power supplies are needed. Try to look and make sure they have not used a 120V only panel with a 240V pump.
4. The taps and pipes for the taps must be of the same material! If it is a sch80 tap (usually gray plastic) then the tap, pipe and valve (the valve can be sch40pvc if there is an adequate amount of sch80 pipe used) must be constructed of sch80pvc. The same goes for sch40 taps, you cannot use sch80 pieces with the sch40.
5. The taps must go directly to the 3" pipe; no elbows can be used in the tap connections.
6. All of the tap must be the same size or larger. 3/4" pipe cannot have a 1/2" valve, but a 1/2" pipe could have a 3/4" valve, if at there is at least 6" total 1/2" pipe used.
7. Should the wrong size or material be used in the tap itself, the flow to the line can be corrected by using an adequate amount of the proper pipe material and size. The amount of pipe needed to control the flow is dependent on the size pipe/tap. If 1/2" pipe is needed, then at least 6" of total pipe is needed. A 3/4" size requires at least 9" of pipe to be used. A 1" size needs 12" of total pipe length to control the flow.

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IMPROVEMENT PERMIT

PERMIT #: WRP-050906-2020

APPLICATION DATE: 12/22/2020

BLDG. PERMIT #: RBPR-049666-2020

PIN: 0799680010

RECORDED: Yes

TOWNSHIP: 02 - Bartons Creek

JURISDICTION: Wake County

ZONING: R-40W

APPLICANT: Monterey Bay Raleigh, LLC
8801 West Gate Park DR

BUSINESS PHONE: (919) 277-9921

HOME PHONE:

MOBILE PHONE:

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE

EXISTING USE:

SITE ADDRESS: 2424 HEARTLEY DR

SUBDIVISION: MONTREAUX SUB PH 1

LOT: 13

ACRES: 1.08

DIRECTIONS: HWY 50 North of 540 to Norwood Road. Make a right on Norwood. Montreraux is on the right. First left on Hannahs View drive. Turn right onto Heartley drive. Lot 13 is on the left.

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: 01/08/2021

NUMBER OF BEDROOMS: 4

OR TOTAL NUMBER OF OCCUPANTS: 8

PERMITTED DESIGN FLOW: 480 GPD

BASEMENT: No

BASEMENT PLUMBING: No

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: 23 INCHES

PUMP REQUIRED: Yes

- SPECIFIC SYSTEM REQUIREMENTS:**
- System designed for 4 bedroom home, having 480 gals per day (Design Flow).
 - Future Repair is a IIIB type system. With a Max Trench depth of 23" and a 0.30 LTAR.
 - Site serviced by community 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. Di", is displayed on a light blue rectangular background.

DATE: 01/08/2021

RBPR-049666-2020

PRELIMINARY PLOT PLAN FOR

A.R. HOMES

LOT 13, MONTREAUX SUBDIVISION

2424 HEARTLEY DRIVE

REF: B.M. 2018, PAGE 1518-1520

BARTONS CREEK TOWNSHIP

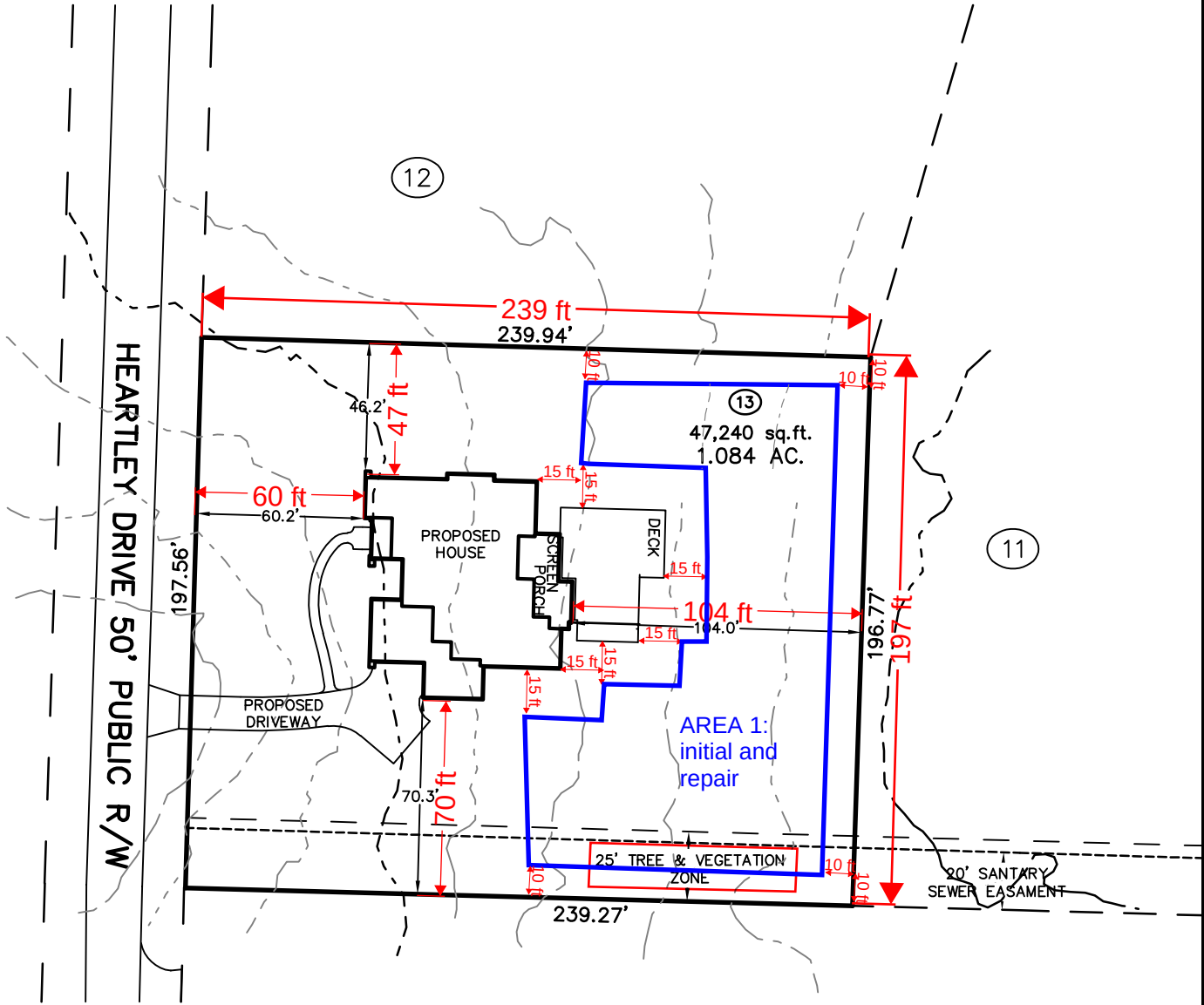
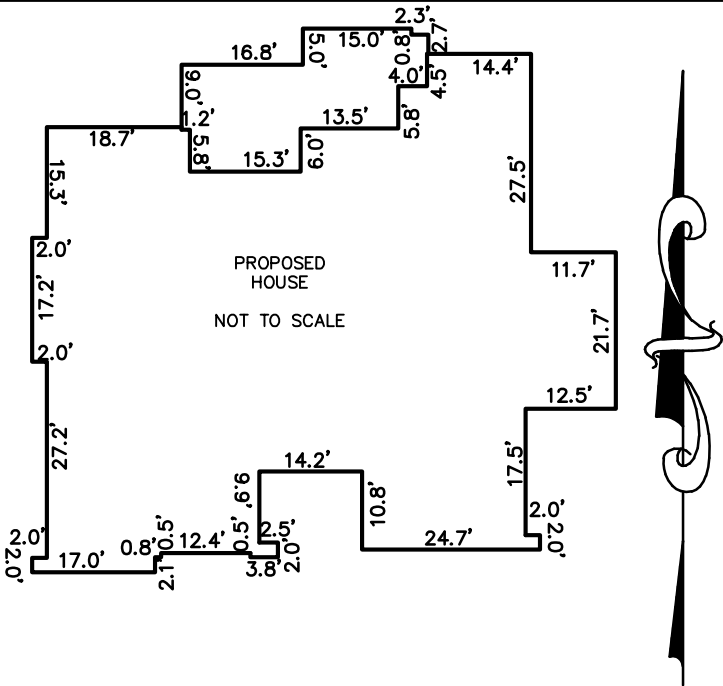
WAKE COUNTY, NORTH CAROLINA

AUGUST 28, 2020

ZONED R-40W



SCALE 1"=60'



IMPERVIOUS SURFACE TABLE

HOUSE	4,186 S.F.
SCREEN PORCH	454 S.F.
DRIVEWAY	1,413 S.F.
POOL/SPA APRON	691 S.F.
POOL DECK	739 S.F.
SIDEWALKS	274 S.F.
MISC/UTILITIES	21 S.F.
TOTAL IMPERVIOUS AREA	7,778 S.F.
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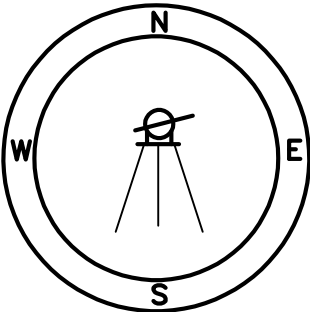
N/F
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Required Setbacks

Front	30
Side	15
Rear	30
Corner	30



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