

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: D 0 4 b 7 7 4

PIN #: 1 8 2 2 1 4 6 9 3 9

OP DATE: 0 3 / 2 8 / 2 0 1 4

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 <i>existing</i>
☐	☐	☐	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 1 2 5

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

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#: D046774 STATUS: A
PIN: 1822.03 14 6939 000
TOWNSHIP: 14 NEW LIGHT
APPLICANT: SIEMON, STACIE

APP. DATE: 09/23/2011
TAX MAP: 0
JURISDICTION: WC

BLDG. PERMIT#: I009624
RECORDED: Y ORIG. PERMIT#: D32933
ZONING: SW DEVICE: N S#:

SAME
SAME, NC 27587
(919) 435 - 0412

USE: HD USE: 0001 REPAIR/EXISTING SYSTEM

EXIST USE: 101A CONVENTIONAL ONE-FAMILY H

LTAR: 0.25 0.25 BEDROOMS: 3 BASEMENT: N #EMPLOYEES: 0

SITE: ADDRESS: 8716 CARRADALE CT

SUBDIVISION: STRATHAVEN LOT: ACRES: 0.92 EASEMENT: N LOC: SYS:

DIRECTION: US 1 NORTH. LT PURNELL RD. LT POWELL RD. LT CAR
RADALE CT.

Well System: WATER: COMMUNITY - TYPE: EXISTING

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

COMMENTS:

Operation Permit

DESIGN FLOW: gal./min. ACTUAL FLOW: INNOVATIVE LETTER:

INSTALLED BY: Brantley
PROPRIETARY SYSTEM: E21203HG
COMMENTS:

INSTALLATION APPROVED BY: Tom Whaley
FILTER NO:

OPERATIONS PERMIT ISSUED? Y OP DATE: 3/28/14 BY: Tom Whaley

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: 3-27-14 Benchmark: Rod reading: Distance to Structure:
ST: Existing gals ID#: D.O.M.: Elev.: Distance to Well:
PT: Existing gals ID#: D.O.M.: Elev.: 16'9"
D-box/FD/PM elev.: 2'9" Supply Line: 60 ft. Pump/Control Panel:
Line 1: 5'8 1/2" Date: Line 6: Date:
Line 2: 6'10 1/2" Date: Line 7: Date:
Line 3: 7'9" Date: Line 8: Date:
Line 4: 10'1" Date: Line 9: Date:
Line 5: 11'2" Date: Line 10: Date:
Distance to P/L: Notes: ETM 23, CC 999822, Zoeller 140.

PT → Riser extension installed, New Floats, New Control Panel (ETM, CC) New pump.

original system → bottom line #3 had up to 30 feet of drainline replaced (damaged)
from the beginning.

The other drainlines were viewed by camera and were clear all the way.

**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#: D046774 STATUS: A
PIN: 1822.03 14 6939 000
TOWNSHIP: 14 NEW LIGHT
APPLICANT: SIEMON, STACIE

APP. DATE: 09/23/2011
TAX MAP: 0
JURISDICTION: WC

BLDG. PERMIT#: I009624
RECORDED: Y ORIG. PERMIT#: D32933
ZONING: SW DEVICE: N S#:

SAME
SAME, NC 27587
(919) 435 - 0412

USE: HD USE: 0001 REPAIR/EXISTING SYSTEM
EXIST USE: 101A CONVENTIONAL ONE-FAMILY H

LTAR: 0.25 0.25 BEDROOMS: 3 BASEMENT: N #EMPLOYEES: 0 FOUNDATION DRAIN: N
SITE: ADDRESS: 8716 CARRADALE CT

SUBDIVISION: STRATHAVEN LOT: ACRES: 0.92 EASEMENT: N LOC: SYS:
DIRECTION: US 1 NORTH. LT PURNELL RD. LT POWELL RD. LT CAR
RADALE CT.

IMPROVEMENT PERMIT

TANK SIZE: EXIST gal. PUMP Tank: EXIST gal. SQ FT: _____ INNOVATIVE MAX DEPTH LINE: 24 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III G PUMP: Y P/M: Y
DAILY FLOW: 360 gal/day DESIGN FEE REQ?: PAID?: WATER: COMMUNITY

COMMENTS:

IP ISSUED? DATE: BY: () PHONE#:

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION

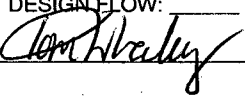
VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

AUTHORIZATION CONDITIONS:

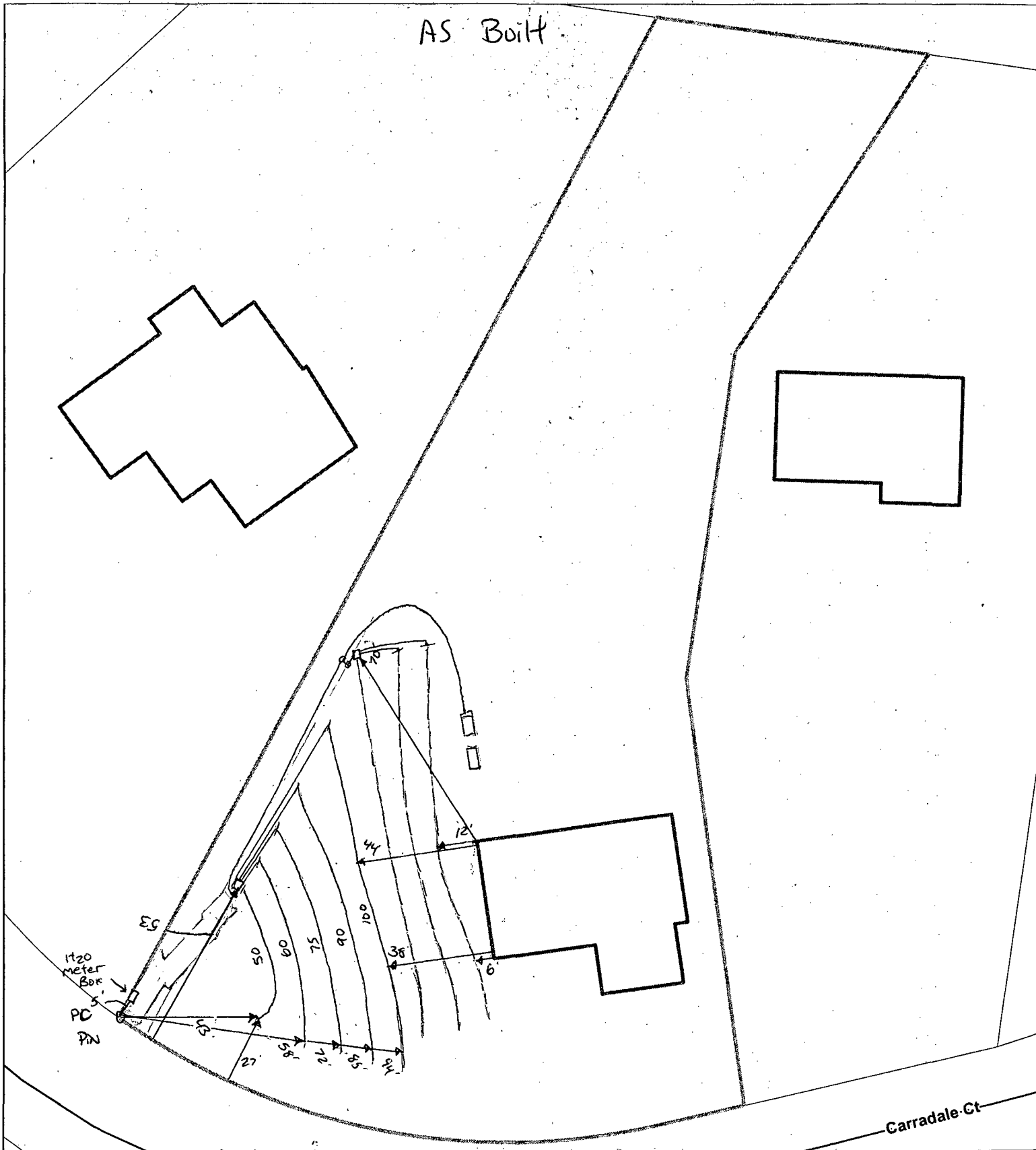
Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser for access is required. The wastewater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

MAINTAIN ALL SETBACKS. INSTALL ALL NEW DRAINLINES ON CONTOUR. THE AREAS WHERE THE INTIAL SYSTEM WAS DAMAGED ARE TO BE UNCOVERED, DAMAGED PRODUCT REMOVED AND THEN REPLACED. PRE CONSTRUCTION MEETING WILL BE REQUIRED. PLEASE CALL THE OFFICE WITH ANY FURHTER QUESTIONS OR CONCERNS PRIOR TO PRE CONSTRUCTION MEETING.

TANK SIZE: EXIST gal. PUMP TANK: EXIST gal. SQ FT: _____ INNOVATIVE MAX DEPTH LINE: 24 in.
MAINT: N OPER: N L/O: Y TRENCH#: 5 LENGTH: 375 ft. WIDTH: 36 in. DESIGNER: _____
SUBFIELDS: _____ DESIGN HEAD PRESSURE: _____ DESIGN FLOW: _____ gal/min DOSE VOLUME: _____ gal.

CA ISSUED? Y DATE: 02/24/2012 BY: (TXW)  PHONE#: 868-6412

AS Built

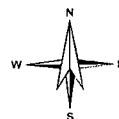


Wake County
Environmental Services
(919) 856-7400
<http://www.wakegov.com>

1 inch = 40 feet

This document is a graphic representation only,
created from the best available sources.
Wake County assumes no responsibility for any errors,
or misuse of this document.

2/24/2012 9:35 AM



WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES PRESSURE MANIFOLD DESIGN

Name: John Siemon

P.I.N. #: 1822146939

D#: 46774

Address: 8716 Carradale Ct

Subdiv: Strathaven Lot

Lot#: 24

of BDR: 3

Daily Flow:

360 gal/day

L.T.A.R.:

0.27 gal/day/sq.ft

Septic Tank: Exist gals

Pump Tank: Exist gals

Sq. Foot: 1125

Stone Depth: Innov

Number of Taps: 5

Length of Trenches: 375

ft(See Tap Chart for Details)

Depth of Trenches: 20 in

Manifold Length: 48 in

Manifold Diameter: 4in sch 80pvc

Tap Configuration: 6 in spacing

1

side(s) of manifold

Supply Line: length: 160 ft

Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 7.53

ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft

Elevation Head: 21.50 ft

Total Head: 31.03 ft

Pump to Deliver: 38.27 gals/min at 31.03 ft head

Dosing Volume: 191 gals,

Drawdown: 191 gals divided by 19.62 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, with 1/16" filtration or equal is required.

Possible pumps: Hydromatic: SHEF 50

Goulds: 3885 WE07H

Myers: ME50

Zoeller: 140

Other:

TAP CHART

Bench Mark	11.69	is = 100.00	set at front corner				Design Head:	2	
Pump tank elev. Estim.	17.94	93.75	Pump elev.	88.75			Manifold elev.	110.25	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Blue	2.44	109.25	50	1/2in SCH 80	5.48	51.55	150	0.344
2	Red	3.52	108.17	60	1/2in SCH 80	5.48	51.55	180	0.286
3	White	4.5	107.19	75	1/2in SCH 40	7.11	66.88	225	0.297
4	Orange	5.50	106.19	90	3/4in SCH 80	10.1	95.01	270	0.352
5	Pink	7.27	104.42	100	3/4in SCH 80	10.1	95.01	300	0.317
		total	feet =	375	gal/min =	38.27		LTAR =	0.27
% of Dose Vol.	78.5		Des. Flow	360				(ltar + 5%)	0.28
Dose Volume	191		Pump Run=	9.41				(ltar W/ INOV)	0.36
Dose Pump Time	5.00		Tank Gal/IN	19.62				(ltar + 5%)	0.38
Drawdown in Inches	9.75		Elev. Head	21.50					
Supply Line Length	160								

Comments: The pump tank elevation was estimated using the original evevation shots from permit D32933. Please check final elevation before purchasing new pump.

Hydraulic Profile

Manifold Elevation 110.25 160

CA

ST- Existing

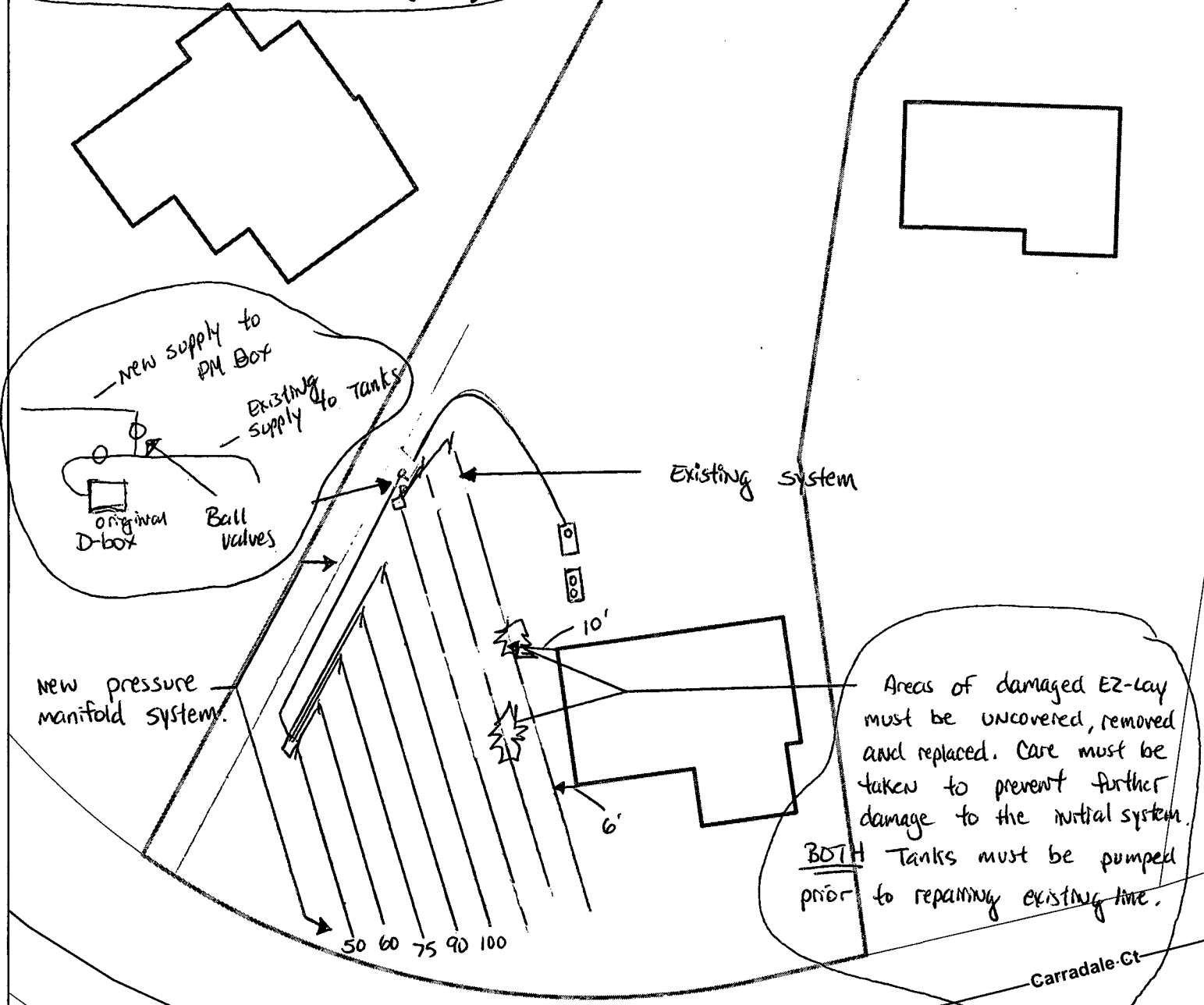
PT- Existing

★ Control Panel must be upgraded to include a Cycle Counter and an Elapsed Time meter.

Max Trench depth 24"

Total sq. ft. 1125

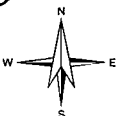
★ Pre-construction meeting required



Wake County
Environmental Services
(919) 856-7400
<http://www.wakegov.com>

This document is a graphic representation only,
created from the best available sources.
Wake County assumes no responsibility for any errors,
or misuse of this document.

1 inch = 40 feet



2/24/2012 9:35 AM