

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: 0037195

PIN #: 1831492988

OP DATE: 0312012007

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.)

01245

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#: **D037195** STATUS: **A** APP. DATE: **06/01/2006** BLDG. PERMIT#: **0063990**
PIN: **1831.00 49 2988 000** TAX MAP: **0182 0000** RECORDED: **Y** ORIG. PERMIT#:
TOWNSHIP: **19 WAKE FOREST** JURISDICTION: **WC** ZONING: **40W**
APPLICANT: **K HOVNANIAN HOMES**
3500 REGENCY PARKWAY STE 240
CARY, NC 27511
(919) 462 - 0070
USE: **HD USE: 101 ONE-FAMILY HOUSE**
EXIST USE:
DISPOSAL: BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0
SITE: **ADDRESS: 2616 DUN LORING DR**
SUBDIVISION: KENSINGTON MANO LOT: 05 ACRES: 0.69
DIRECTION: **US1N 1MI PAST HWY 98 L JENKINS RD SUB ON R**

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: **COMMUNITY WATER.**

Operation Permit

DESIGN FLOW: **42.89 gal./min.** ACTUAL FLOW: _____ INNOVATIVE LETTER: **R**

INSTALLED BY: Glenn Todd
PROPRIETARY SYSTEM: **E E-Z LAY PIPE**
COMMENTS:

INSTALLATION APPROVED BY: Alan Alcock
FILTER NO: TuF-TITE

2/22/07
SR

OPERATIONS PERMIT ISSUED? up OP DATE: 3/20/07 BY: AMH

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: 2/22/07 Benchmark: ST Rod reading: 14' 2" Distance to Structure: 18'
ST: 1200 gals ID#: STB 857 D.O.M.: 12/15/06 Elev.: 14' 2" Distance to Well: -
PT: 1200 gals ID#: PT 170 D.O.M.: 12/22/06 Elev.: 14' 8"
D-box/FD/PM elev.: _____ Supply Line: 200 ft. Pump/Control Panel: _____
Line 1: 7' 3" 7' 3" 7' 3" Date: 2/22/07 Line 6: _____ Date: _____
Line 2: 7' 7 1/2" 7' 7 1/2" 7' 7 1/2" Date: _____ Line 7: _____ Date: _____
Line 3: 8' 5" 8' 5" 8' 5" Date: _____ Line 8: _____ Date: _____
Line 4: 10' 0" 10' 0" 10' 0" Date: _____ Line 9: _____ Date: _____
Line 5: 11' 6" 11' 6" 11' 6" Date: _____ Line 10: _____ Date: _____
Distance to P/L: _____ Notes: _____

2/22/07 - Manifold box not installed at time of inspection

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT
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CARY, NC 27511
(919) 462 - 0070
USE: **HD USE: 101 ONE-FAMILY HOUSE**
EXIST USE:
DISPOSAL: **BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUND DRAIN: Y**
SITE: **ADDRESS: 2616 DUN LORING DR**
SUBDIVISION: KENSINGTON MANO LOT: 05 ACRES: 0.69
DIRECTION: **US1N 1MI PAST HWY 98 L JENKINS RD SUB ON R**

IMPROVEMENT PERMIT

TANK SIZE: **1200 gal.** PUMP Tank: **1200 gal.** SQ FT: **1245** INNOVATIVE **MAX DEPTH LINE: 24 in.**
WASTEWATER: **INDIVIDUAL** SEWAGE: **DOMESTIC** TYPE SYSTEM: **III G** PUMP: **Y** P/M: **Y**
DAILY FLOW: **480 gal/day** DESIGN FEE REQ?: **Y** PAID?: **Y** WATER: **COMMUNITY**

COMMENTS: **PERMIT REQUIRES USE OF PRESSURE MANIFOLD DOSING UNEQUAL LENGTH LINES OF ACCEPTED STATUS SYSTEM PRODUCT WITH ITS 25% REDUCTION ALREADY CALCULATED INTO THE DESIGN. THE REPAIR SYSTEM HAS THE SAME REQUIREMENTS. SEE CA COMMENTS FOR FURTHER DETAILS. SOIL LTAR IS .3.**

IP ISSUED? **Y** DATE: **09/22/2006** BY: (AMH) *Ed Q. Duff* PHONE#: **422-3751**

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:**

REFER & ADHERE TO ATTACHED APPROVED PLANS, SPECIFICATIONS & ALL REGULATORY SETBACKS. IF SYSTEM FLAGGING IS MISSING, BUILDER MUST HAVE DESIGNER REFLAG SYSTEM BEFORE CONTRACTOR STARTS THE INSTALLATION. SYSTEM & REPAIR AREAS MUST BE PROTECTED FROM GRADING & TRAFFIC BY "FENCING". A SIMPLEX CONTROL PANEL WITH 2 BREAKERS FOR THE SEPARATE POWER SUPPLIES, ELAPSED TIME METER & CYCLE COUNTER ARE REQUIRED. SEE THE CA SITE PLAN ALONG WITH THE APPROVED PLANS FOR FURTHER DETAILS. "REMOVE ALL TREES WHICH INTERFERE WITH DRAIN LINE INSTALLATION!!" ABSOLUTELY NO UNDER GROUND UTILITIES OF ANY TYPE MAY BE LOCATED IN EITHER THE SYSTEM OR REPAIR AREAS! LINES WILL BE INSTALLED SLIGHTLY OFF CONTOUR, SO THAT MAX. DEPTH WILL RANGE FROM 18" TO 24", BUT IN NO CASE CAN DEPTH EXCEED 24" ON DOWNHILL SIDE OF TRENCH!

TANK SIZE: **1200 gal.** PUMP TANK: **1200 gal.** SQ FT: **1245** INNOVATIVE **MAX DEPTH LINE: 24 in.**
MAINT: **N** OPER: **N** L/O: **P** TRENCH#: **5** LENGTH: **415 ft.** WIDTH: **36 in.** DESIGNER: **CCSC, PLLC**
SUBFIELDS: **1** DESIGN HEAD PRESSURE: **2** DESIGN FLOW: **42.89 gal/min** DOSE VOLUME: **216 gal.**

CA ISSUED? **Y** DATE: **09/27/2006** BY: (ETD) *Ed Q. Duff* PHONE#: **856-7436**

Attn: Ed Duke

Revised

SUBJECT PROPERTY IS ___ IS NOT ___ LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DESIGNATED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAP NUMBER _____ ZONE _____

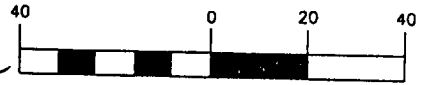
0063990
D 37195

pin # 1831 03 49 2988 00

IMPERVIOUS AREA
HOUSE 2896.79' SF
DECK 200.00' SF
DRIVE/WALK 1378.02' SF
TOTAL 4474.81' SF

As Built

GRAPHIC SCALE



(IN FEET)

1 inch = 40 ft.

MSA 4,719 sqft



By Self
Date 9/25/04
Use Lot
Project MBL
Front 15
Rear 30
Side 7.5
Corner 6

S00°08'11"W
231.28'

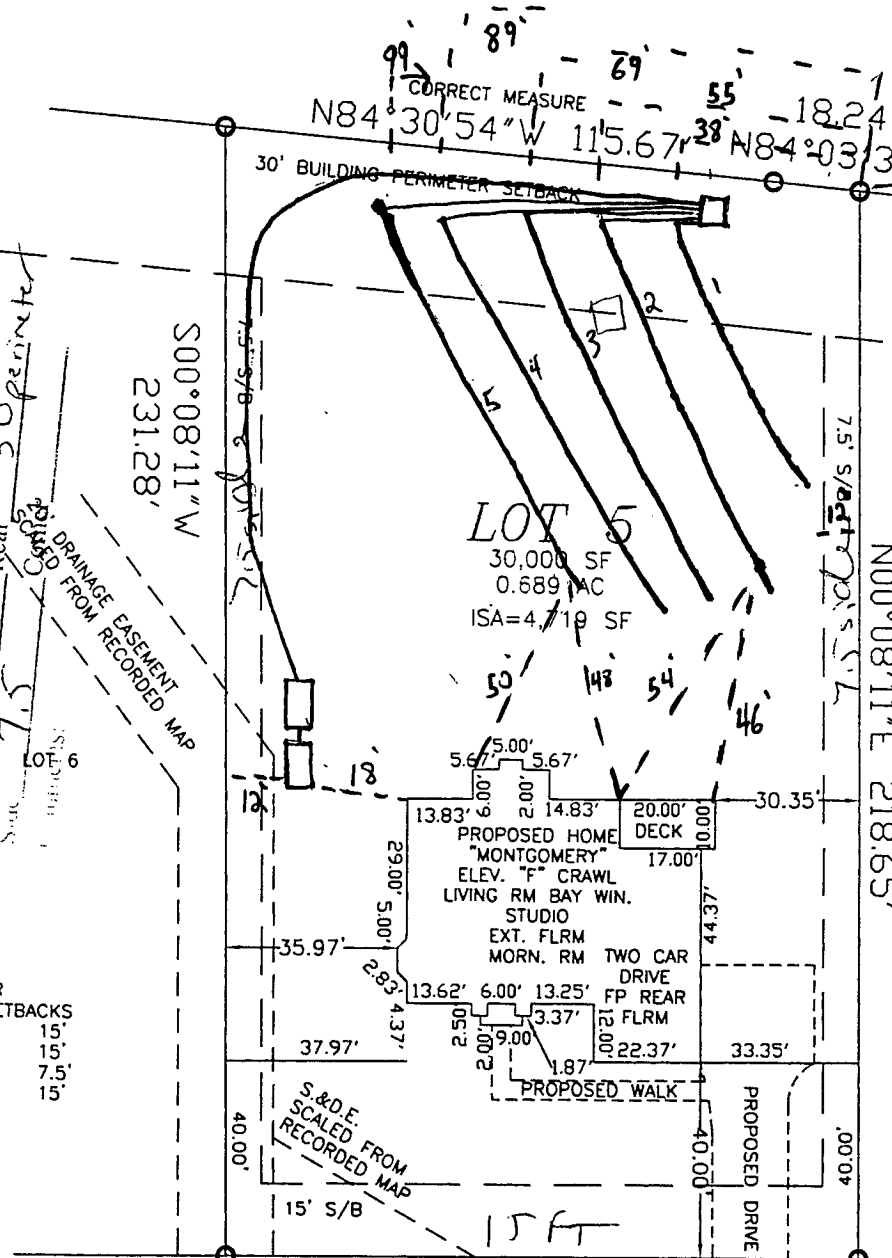
DRAINAGE EASEMENT
30' PERMIT

Measurements off this iron
N84°30'54"W 115.67'
N84°03'31"W 182.4'

E2-FLOW SYSTEM

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

Linda Sachal
Signature of Owner or Authorized Agent



R-40W CLUSTER
MINIMUM BUILDING SETBACKS
FRONT 15'
REAR 15'
SIDE 7.5'
CORNER SIDE 15'

S89°51'59"E 133.31'
2616
DUN LORING DRIVE
60' PUBLIC R/W

REVISED 5/30/06 TO SHOW ISA LIMIT
KENSINGTON MANOR
SUBDIVISION
(CLUSTER SUBDIVISION)

pin #
PRELIMINARY PLAT, NOT FOR
RECORDATION, CONVEYANCE
OR SALE

BUILDER TO VERIFY HOUSE

Kensington Manor Subdivision, Lot 5 4-Bedroom Septic System Layout

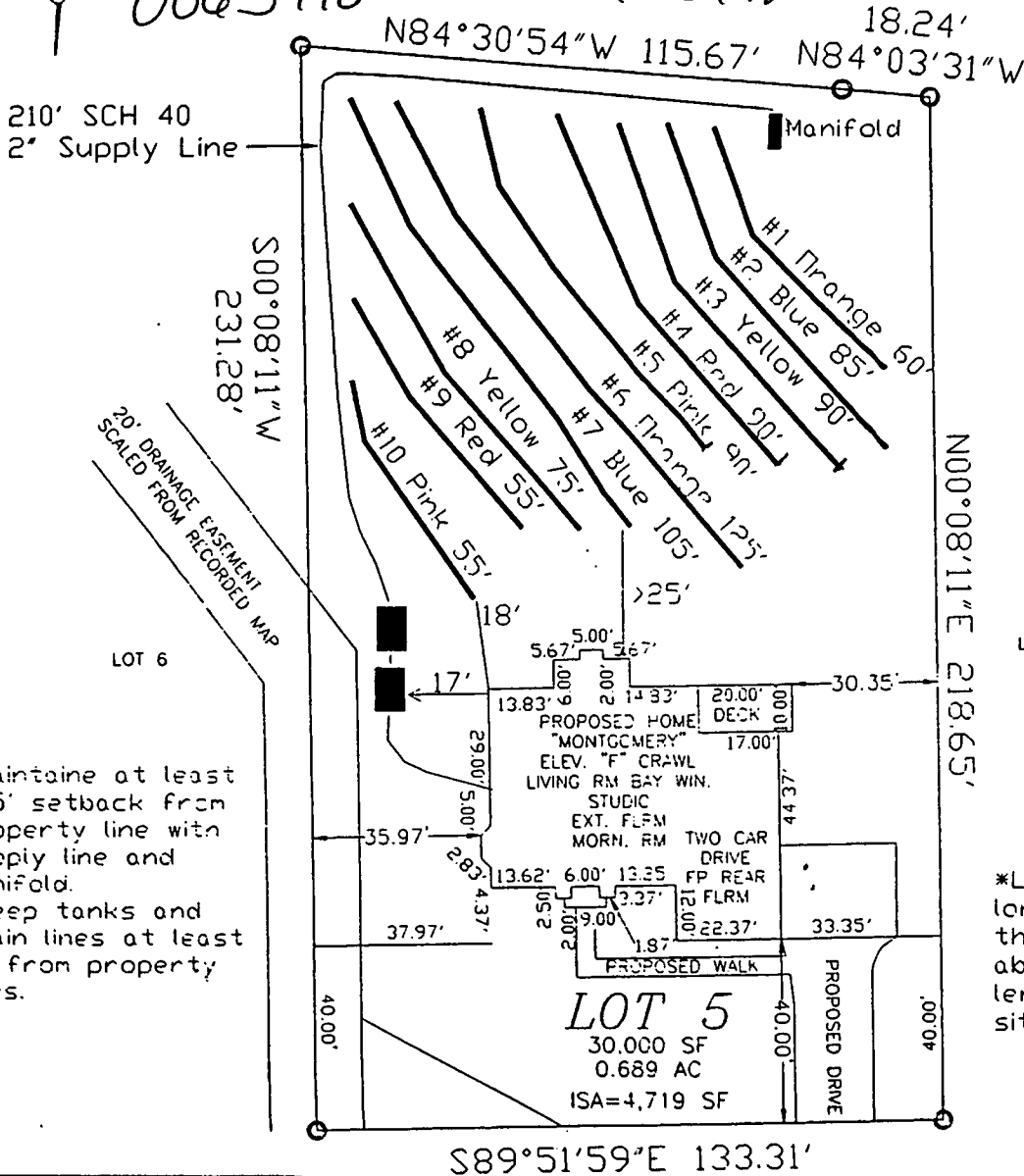
D-37195
0063990

K. Hovnanian Homes

August 2006

1831.03492988

CASite
Plan
Part "A"
See Part "A"



SETBACKS	
FRONT	15'
REAR	15'
SIDE	7.5'
CORNER SIDE	15'

IMPERVIOUS AREA	
HOUSE	2896.79' SF
DECK	200.00' SF
DRIVE/WALK	1378.02' SF
TOTAL	4474.81' SF

*Maintain at least a 5' setback from property line with supply line and manifold.
*Keep tanks and drain lines at least 10' from property lines.

*Lines may be flagged longer in the field than lengths indicated above. Install at lengths indicated on site plan.

LOT 5
30,000 SF
0.689 AC
ISA=4,719 SF

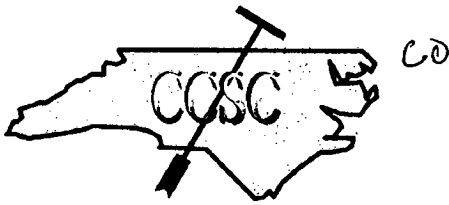
S89°51'59"E 133.31'
DUN LORING DRIVE

*System: Pressure Manifold
Accepted Status System
EZ-Flow
0.3 Soil LTAR
18-24" Trench Bottom
Lines: 1-5, (415')
*Repair: Pressure Manifold
Accepted Status System
EZ-Flow
0.3 Soil LTAR
18-24" Trench Bottom
Lines: 6-10, (425')

GRAPHIC SCALE
1" = 40'



Central Carolina
Soil Consulting
919-784-9449
Project # 267



Central Carolina Soil Consulting, PLLC

6325-9 Falls of Neuse Rd., PMB#341

Raleigh, NC 27615-6809

919-784-9449

Enclosed is a Pressure Manifold design for K Hovnanian Homes, Inc.
for a 4-bedroom house with a daily flow of 480 gallons/day.
The site is located at Lot 5 in Kensington Manor Subdivision.

Design Specifications & Calculations	1-4
Site plan & layout	5-6
Septic Tank Diagram	7
Pump Tank Diagram	8
Hydraulic Profile	9
Manifold Specifications	10
Pump Specifications	11-12
Control Panel Specifications	13-14
Electric Box Specifications	15

☐ APPROVED
☒ APPROVED AS NOTED
☐ DISAPPROVED

Review of this document has been made only for conformance with the design concept of the project and approval or approval as noted shall not relieve the designer and/or contractor from responsibility for any errors therein or for furnishing the materials, and equipment of proper dimension, size, quantity, quality and all performance characteristics to meet the requirements and intent of the contract documents.

Design – Jason Hall
August 20, 2006, Revision September 19, 2006
Project # 267

WAKE COUNTY DEPARTMENT OF
ENVIRONMENTAL SERVICES

Date 9-22-06 By Ed D. Deffenbaugh

CENTRAL CAROLINA SOIL CONSULTING PRESSURE MANIFOLD DESIGN

Name: K Hovnanian Homes

P.I.N. #:

D#: 37195

Address: 3500 Regency Parkway, Suite 240
Cary, NC 27511

Subdiv: Kensington Manor

Lot#: 5

of BDR: 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: 1245 Stone Depth: ASSP

Number of Taps: 5 Length of Trenches: 415 ft(See Tap Chart for Details)

Depth of Trenches: 18-24 in Manifold Length: 48 in

Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing / side(s) of manifold

Supply Line: length: 210 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 11.33 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 17.00 ft

Total Head: 30.33 ft Pump to Deliver: 42.89 gals/min at 30.33 ft head

Dosing Volume: 216 gals,

Drawdown: 216 gals divided by 21 gals/in = 10.3 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, or equal is required.

Possible pumps: Hydromatic: Goulds: Myers: ME50
 Zoeller: Other:

TAP CHART

Bench Mark	3.7	is = 100.00	set at				Design Head:	2	
Pump tank elev.		15	88.70	Pump elev.	83.70		Manifold elev.	100.70	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Orange	4.0	99.70	60	1/2in SCH 80	5.48	61.33	180	0.341
2	Blue	4.6	99.10	85	1/2in SCH 40	7.11	79.57	255	0.312
3	Yellow	5.2	98.50	90	3/4in SCH 80	10.1	113.03	270	0.419
4	Red	5.6	98.10	90	3/4in SCH 80	10.1	113.03	270	0.419
5	Pink	7.3	96.40	90	3/4in SCH 80	10.1	113.03	270	0.419

	total	feet =	415	gal/min =	42.89	LTAR =	0.30
% of Dose Vol.	80		<u>Des. Flow</u>	480		(ltar + 5%)	0.32
Dose Volume	216		Pump Run=	11.19		(ltar W/ INOV)	0.40
Dose Pump Time	5.03		Tank Gal/IN	21		(ltar + 5%)	0.42
Drawdown in Inches	10.3		Elev. Head	17.00			
Supply Line Length	210						

Comments:

Kensington Manor, Lot 5 Repair, Tap Chart

Bench Mark	3.70	is = 100.00		Location of BM		Elevation Head			7.10
Pump tank elev.	10	93.70	Pump elev.	88.70	Manifold elev.			95.80	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
6	Blue	8.90	94.80	105	3/4in SCH 80	10.1	126.68	315	0.4022
7	Orange	9.80	93.90	110	3/4in SCH 80	10.1	126.68	330	0.384
8	Pink	11	92.70	85	1/2in SCH 40	7.11	89.18	255	0.350
9	Blue	11.90	91.80	60	1/2in SCH 80	5.48	68.73	180	0.352
10	Pink	12.90	90.80	55	1/2in SCH 80	5.48	68.73	165	0.4166

total feet = 401 gal/min = 38.27 LTAR = 0.3000

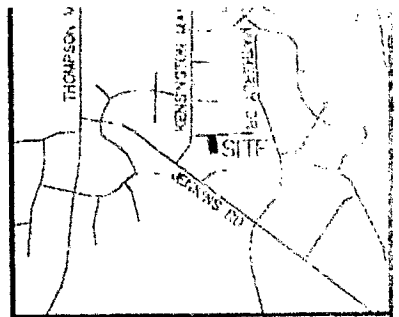
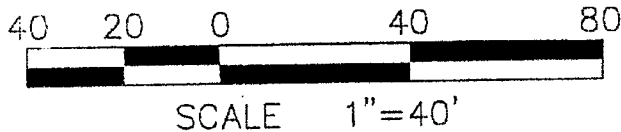
LTAR + %5 0.3150

% of Dose Vol.	75	Des. Flow	480	(ltar W/ INOV)	0.4000
Dose Volume	195.49	Pump Run=	12.54	(ltar W/ INOV + 5%)	0.4200
Dose Pump Time	5.11	Tank Gal/IN	21		
Drawdown in Inches	9.31				

MARK F. WILLSE
&
KELLIE A. WILLSE

LOT 5, KENSINGTON MANOR SUBDIVISION
2616 DUN LORING DRIVE
PIN# 1831.01-49-2988
D.B. 12459, PAGE 1896
B.M. 2004, PAGE 1022-1025
WAKE FOREST TOWNSHIP
WAKE COUNTY, NORTH CAROLINA

MAY 31, 2012

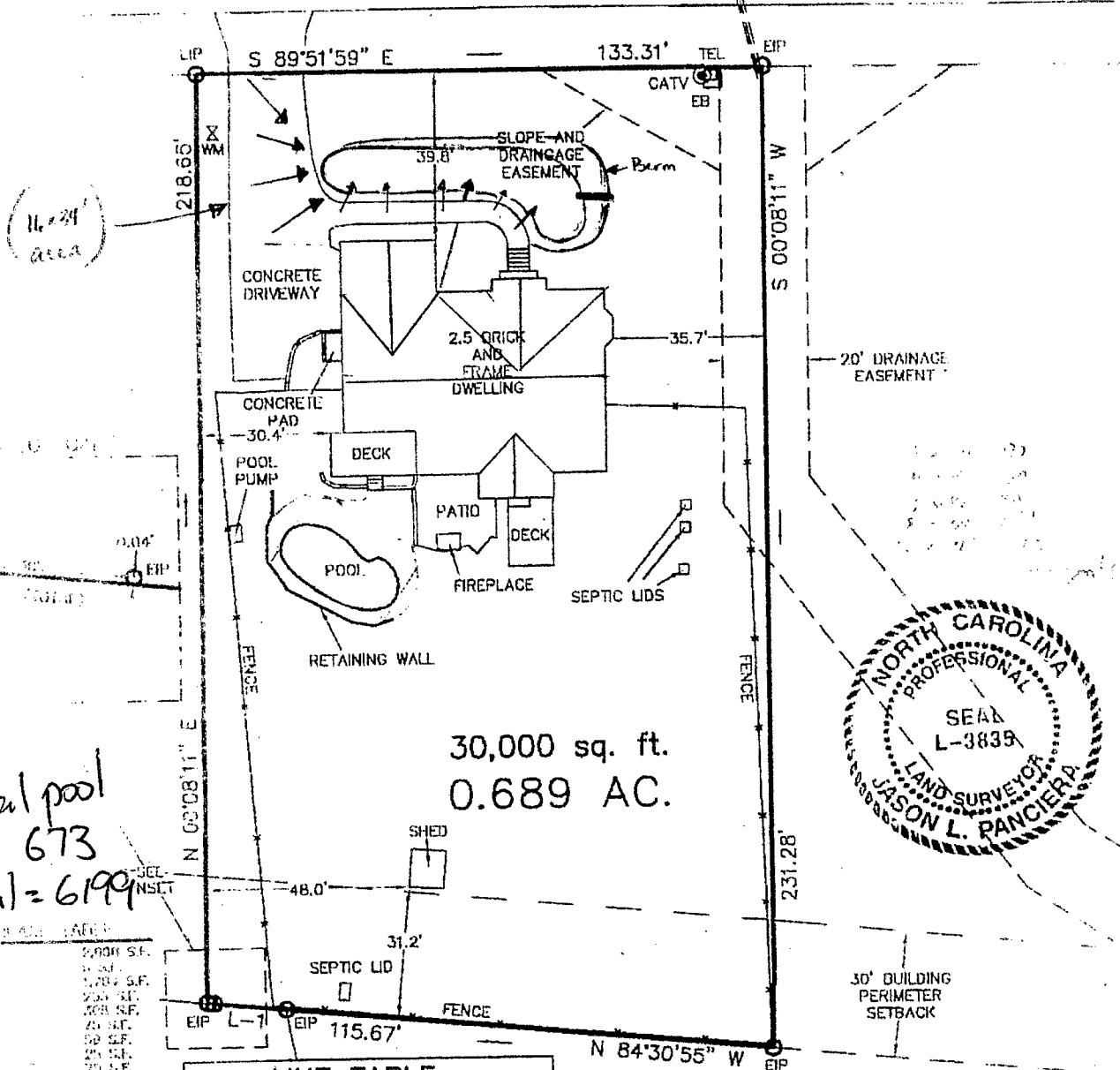


VICINITY MAP

LEGEND:

EIP - EXISTING IRON PIPE
EPK - EXISTING PK NAIL
NIP - NEW IRON PIPE SET
R/W - RIGHT OF WAY
CATV - CABLE TV BOX
EB - ELECTRIC BOX
TEL - TELEPHONE PEDESTAL
PP - POWER POLE
OHL - OVERHEAD LINE
LP - LIGHT POLE
WM - WATER METER
WV - WATER VALVE
CO - SEWER CLEAN-OUT

DUN LORING DRIVE PUBLIC 60' R/W



30,000 sq. ft.
0.689 AC.

Additional pool
Patio 673
Jew Improvements total = 6199

LINE TABLE		
LINE	LENGTH	BEARING
L-1	18.24'	S 84°03'31" E

N/F
OSBORNE SUBDIVISION
B.M. 2003, PAGE 1076

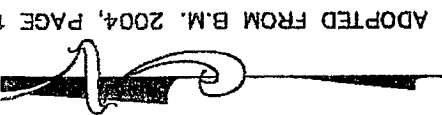
CAWTHORNE, MOSS
& PANCIERA, P.C.

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

I DECLARE THAT THIS SURVEY COMPLIES WITH THE NORTH CAROLINA STANDARDS OF PRACTICE FOR SURVEYING, (SECTION 1600) FOR CLASS A SURVEYS AND THAT THE CALCULATED RATIO OF PRECISION BEFORE ADJUSTMENTS IS 1:10,000+. FURTHERMORE, PROPERTY CORNERS SHOWN ARE PRIMARY CONTROL MONUMENTATION FOR THE RE-ESTABLISHMENT OF PROPERTY CORNERS IN THE ABSENCE OF GRID MONUMENTS AND OTHER SUBDIVISION PROPERTY CORNERS. THIS SURVEY IS NOT TO BE RECORDED WITHOUT THE WRITTEN AUTHORIZATION OF THE SURVEYOR.

PROFESSIONAL LAND SURVEYOR L-3835



ADOPTED FROM B.M. 2004, PAGE 1

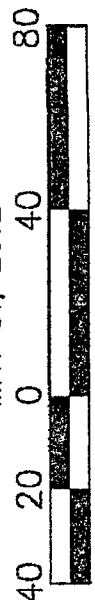
2616 DUN LORING DRIVE
PIN# 1831.01-49-2988
D.B. 12459, PAGE 1896

B.M. 2004, PAGE 1022-1025

WAKE FOREST TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

MAY 31, 2012



SCALE 1"=40'

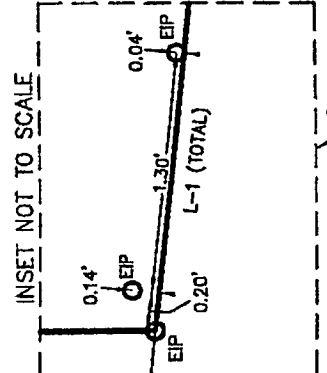
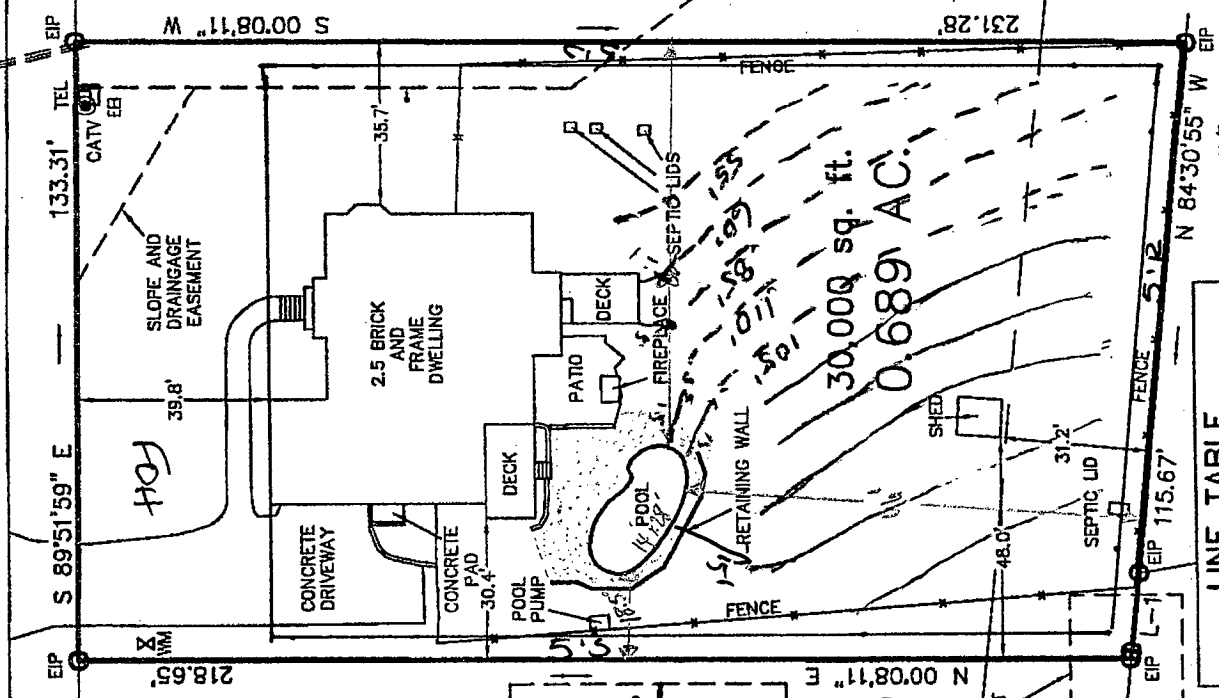
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- OHL - OVERHEAD LINE
- LP - LIGHT POLE
- WM - WATER METER
- WV - WATER VALVE
- CO - SEWER CLEAN-OUT

DUN LORING DRIVE PUBLIC 60' R/W

Zoning	By	Date	Approve	Revise	Use	MBL	Front	Side	Comments:
R400	2/5	6-25-12	439D	101A	FOH	FOH	FOH	FOH	Corner



5526 existing
+ 673 sq ft pad/patio

5799 NISA
21.1 30.1

IMPERVIOUS SURFACE TABLE	
HOUSE	2,988 S.F.
DECK	0 S.F.
DRIVEWAY	1,779 S.F.
SIDEWALK	253 S.F.
PATIO/FIREPLACE	350 S.F.
SHED	75 S.F.
RETAINING WALLS	58 S.F.
POOL COPING	25 S.F.
MISC./UTILITIES	75 S.F.
TOTAL IMPERVIOUS AREA	5,526 S.F.
TOTAL LOT AREA	30,000 S.F.
PERCENTAGE OF IMPERVIOUS AREA	18.42%
MAXIMUM IMPERVIOUS ALLOWED	4,894 S.F.

LINE TABLE		
LINE	LENGTH	BEARING
L-1	18.24'	S 84°03'31" E

CAWTHORNE, MOSS

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 degree of completion. I hereby grant permission to Municipal/County Representatives the right of entry to make evaluations or inspections upon this property.

Real Estate Agent
Signature of Owner or Authorized Agent

Plan approved as shown for...
Water and Waste Water Section
Wake County Department of Environmental Services.
Date 7-2-12

I DECLARE THAT THIS SURVEY...
CAROLINA STANDARDS OF PRACTICE FOR SURVEYORS
(SECTION 1500) FOR CLASS A SURVEYS AND THAT THE
SURVEYER HAS BEEN A LICENSED SURVEYOR FOR AT LEAST ONE YEAR.

Zoning R40W By 1043
Approve ✓ Date 1-9-13
Revise _____ Use 434
Reject _____ MBL 434D
Front 15 Rear 15
Side 7.5 Corner _____

Comments: R-40W CLUSTER
MINIMUM BUILDING SETBACKS

FRONT 15'
REAR 15'
SIDE 7.5'

SURVEY FOR
MARK F. WILLSE
&
KELLIE A. WILLSE

LOT 5, KENSINGTON MANOR SUBDIVISION

2616 DUN LORING DRIVE

PIN# 1831.01-49-2988

D.B. 12459, PAGE 1896

B.M. 2004, PAGE 1022-1025

WAKE FOREST TOWNSHIP

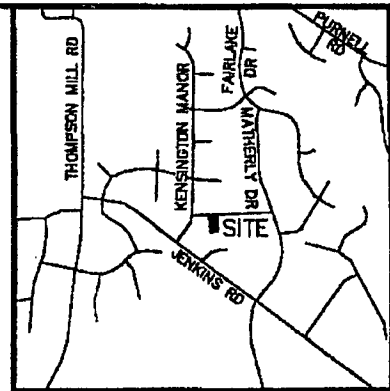
WAKE COUNTY, NORTH CAROLINA

MAY 31, 2012

REVISED DECEMBER 11, 2012

40 20 0 40 80

SCALE 1"=40'



VICINITY MAP
LEGEND:

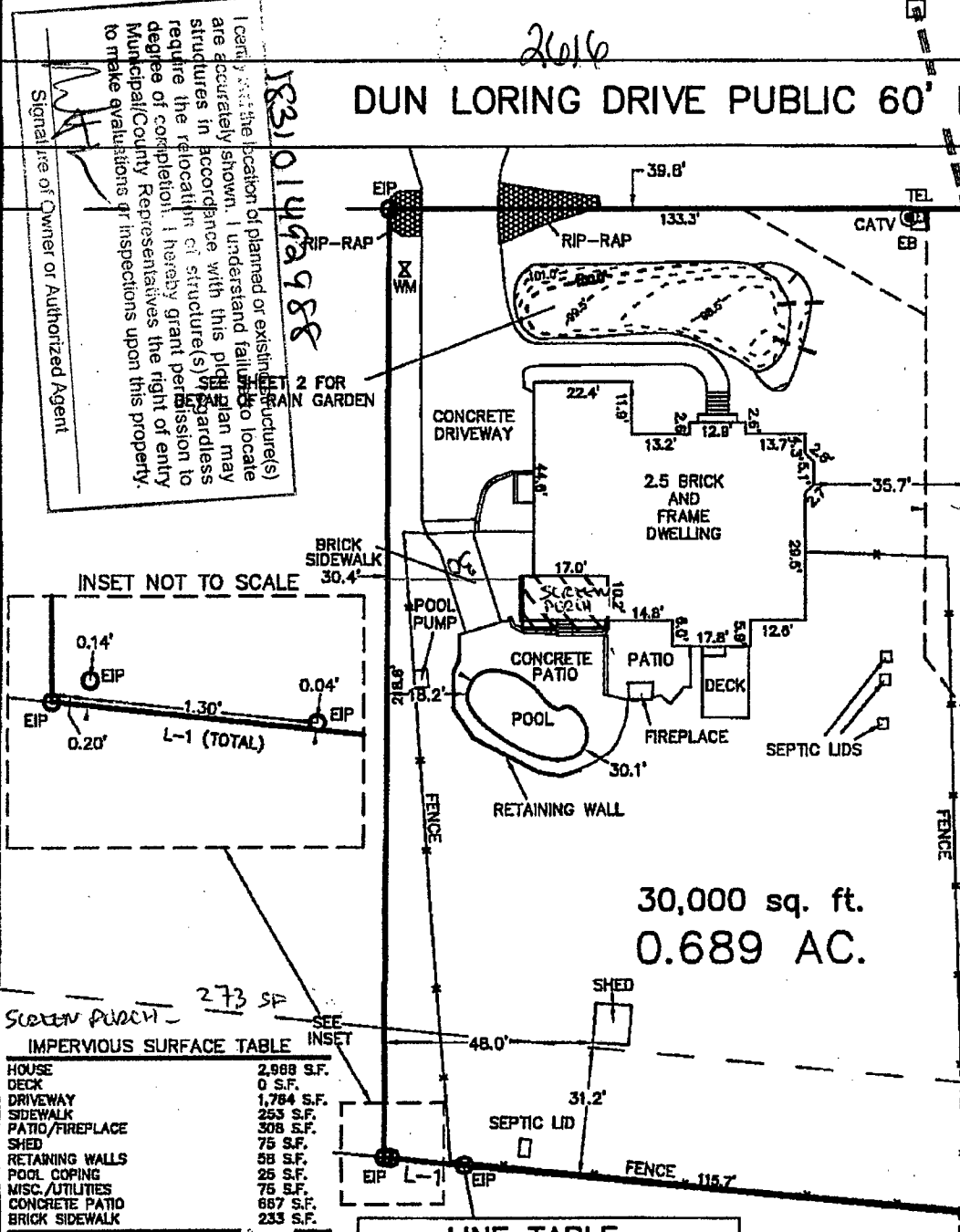
EIP - EXISTING IRON PIPE
EPK - EXISTING PK NAIL
NIP - NEW IRON PIPE SET
R/W - RIGHT OF WAY
CATV - CABLE TV BOX
EB - ELECTRIC BOX
TEL - TELEPHONE PEDESTAL
PP - POWER POLE
OHL - OVERHEAD LINE
LP - LIGHT POLE
WM - WATER METER
WV - WATER VALVE
CO - SEWER CLEAN-OUT

NOTES:

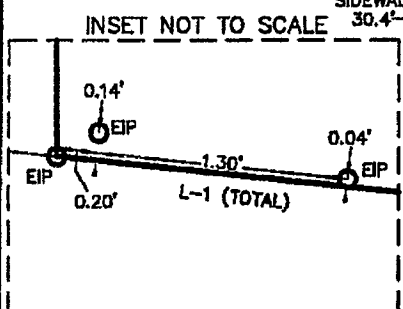
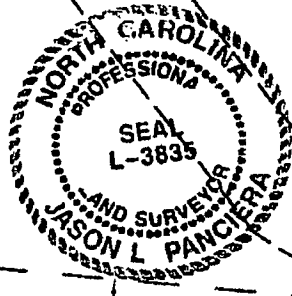
1. ALL CONTOUR LINE ARE AT 0.5' INTERVALS, HIGHLIGHTED EVERY 5'.
2. ELEVATION DATUM IS BASED ON ASSUMED DATA.
3. REVISION OF OCTOBER 25, 2012 REFLECTS NEWLY CONSTRUCTED RAIN GARDEN & CONCRETE PATIO AND BRICK SIDEWALK.

013544

DUN LORING DRIVE PUBLIC 60' R/W



Site plan approved as shown for 1/9/13
Any changes to site plan voids approval. All setbacks apply for septic systems and wells, regardless of any pools, decks, additions and/or accessory structures. Applicant is responsible for protecting all portions of the septic system, repair area and wells from damage during construction. Adhere to all Local and State Rules.
Approved By [Signature] Date 1/9/13
Wake County Department of Environmental Services
ADOPTED FROM B.M. 2804, PAGE 1022-1025
Water and Waste Section



IMPERVIOUS SURFACE TABLE

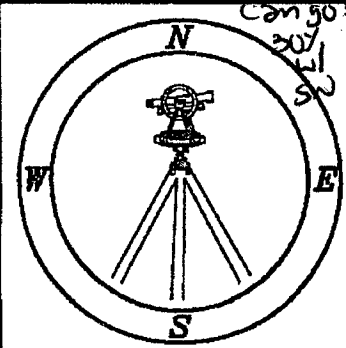
HOUSE	2,988 S.F.
DECK	0 S.F.
DRIVEWAY	1,784 S.F.
SIDEWALK	253 S.F.
PATIO/FIREPLACE	308 S.F.
SHED	75 S.F.
RETAINING WALLS	58 S.F.
POOL COPING	25 S.F.
MISC./UTILITIES	75 S.F.
CONCRETE PATIO	687 S.F.
BRICK SIDEWALK	233 S.F.
TOTAL IMPERVIOUS AREA	6,699 S.F.
TOTAL LOT AREA	30,000 S.F.
PERCENTAGE OF IMPERVIOUS AREA	22.33%
MAXIMUM IMPERVIOUS ALLOWED	2,233 S.F.

LINE TABLE

LINE	LENGTH	BEARING
L-1	18.24'	S 84°03'31" E

N/F
OSBORNE SUBDIVISION
B.M. 2003, PAGE 1078

SHEET 1 OF 2



CAWTHORNE, MOSS
& **PANCIERA, P.C.**
Professional Land Surveyors
C-1525
333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

I DECLARE THAT THIS SURVEY COMPLIES WITH THE NORTH CAROLINA STANDARDS OF PRACTICE FOR SURVEYING, (SECTION 1800) FOR CLASS A SURVEYS AND THAT THE CALCULATED RATIO OF PRECISION BEFORE ADJUSTMENTS IS 1:10,000+. FURTHERMORE, PROPERTY CORNERS SHOWN ARE PRIMARY CONTROL MONUMENTATION FOR THE RE-ESTABLISHMENT OF PROPERTY CORNERS IN THE ABSENCE OF GRID MONUMENTS AND OTHER SUBDIVISION PROPERTY CORNERS. THIS SURVEY IS NOT TO BE RECORDED WITHOUT THE WRITTEN AUTHORIZATION OF THE SURVEYOR.

[Signature]
PROFESSIONAL LAND SURVEYOR L-3835