09-11-13
Pd $75.00
Limited Redraw



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for 140 Tea Olive Ln., Baycrossing Subdivision Lot 77
House Footprint: See attached
Building Setbacks: 35' front/back, 15' side
Water Source: Private well
Number of Bedrooms: 5/600 GPD
Proposed LTAR: 0.3 GPD/FT2 (ICHD)
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Drop boxes/end cap
Septic Tank Size: 1500 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length
Orange 1		55'
Blue 2	**84'**	**85'**
Red 3	**84'**	**86'**
White 4	**84'**	**85'**
Orange 5	**84'**	**85'**
Pink 6	**84'**	**84'**
Orange 7	**84'**	**87'**
Blue 8		80'
White 9		89'
Red 10		96'
White 11		81'
Red 12		80'

Initial System: 504' **Repair System:** 481'

Comments: The area around the pool will be filled to raise the elevation of the pool. The fill area has been marked. Michael Athanas & Associates made soil observations to verify Iredell County's previous LTAR determination.

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ____ *of* ____
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _Shawn Orr_____
ADDRESS: _____ APPLICATION DATE _____
PROPOSED FACILITY: _5 Bedroom_____ PROPOSED DESIGN FLOW (.1949): _600GPD_____ DATE EVALUATED: _____
LOCATION OF SITE: __140 Tea Olive Ln., Baycrossing 77_____ PROPERTY SIZE: _____
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____ PROPERTY RECORDED: _____
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 15%	0-24	R C SBK	FR SS SP		48"			PS 0.3
		24-48	R CL WSBK	FR SS SP					
2	LS 15%	0-48	R C SBK	FR SS SP		48"			PS 0.3
3	LS 7%	0-33	R C SBK	FR SS SP		48"			PS 0.3
		33-48	R CL WSBK	FR SS SP					
4	LS 10%	0-4	Br SCL WSBK	FR SS SP		48"			PS 0.3
		4-48	R C SBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1500 FT2	668 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: __M A & Associates _____
OTHER(S) PRESENT: _____

COMMENTS: _____

IREDELL COUNTY HEALTH DEPARTMENT

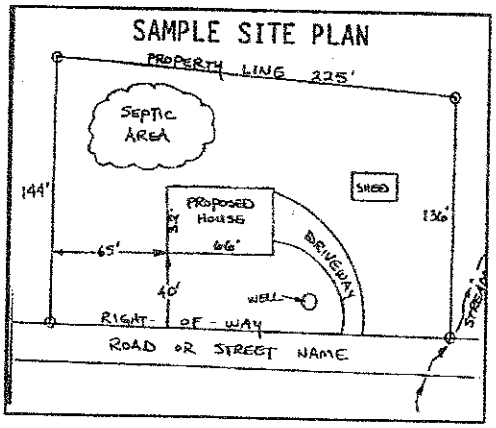
ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!*

Place an (X) beside each item as you complete the site plan:

- ( ) Property Line measurements are clearly identified
- ( ) All proposed structures are indicated
- ( ) Front and side setbacks from property line
- ( ) Preferred driveway location and well location
- ( ) Area you prefer your septic system to be placed
- ( ) North arrow, or other sufficient indicator of direction



Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property	N/A
Location of easements and rights of ways on your property	N/A
Location of any designated wetlands on the property	N/A

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

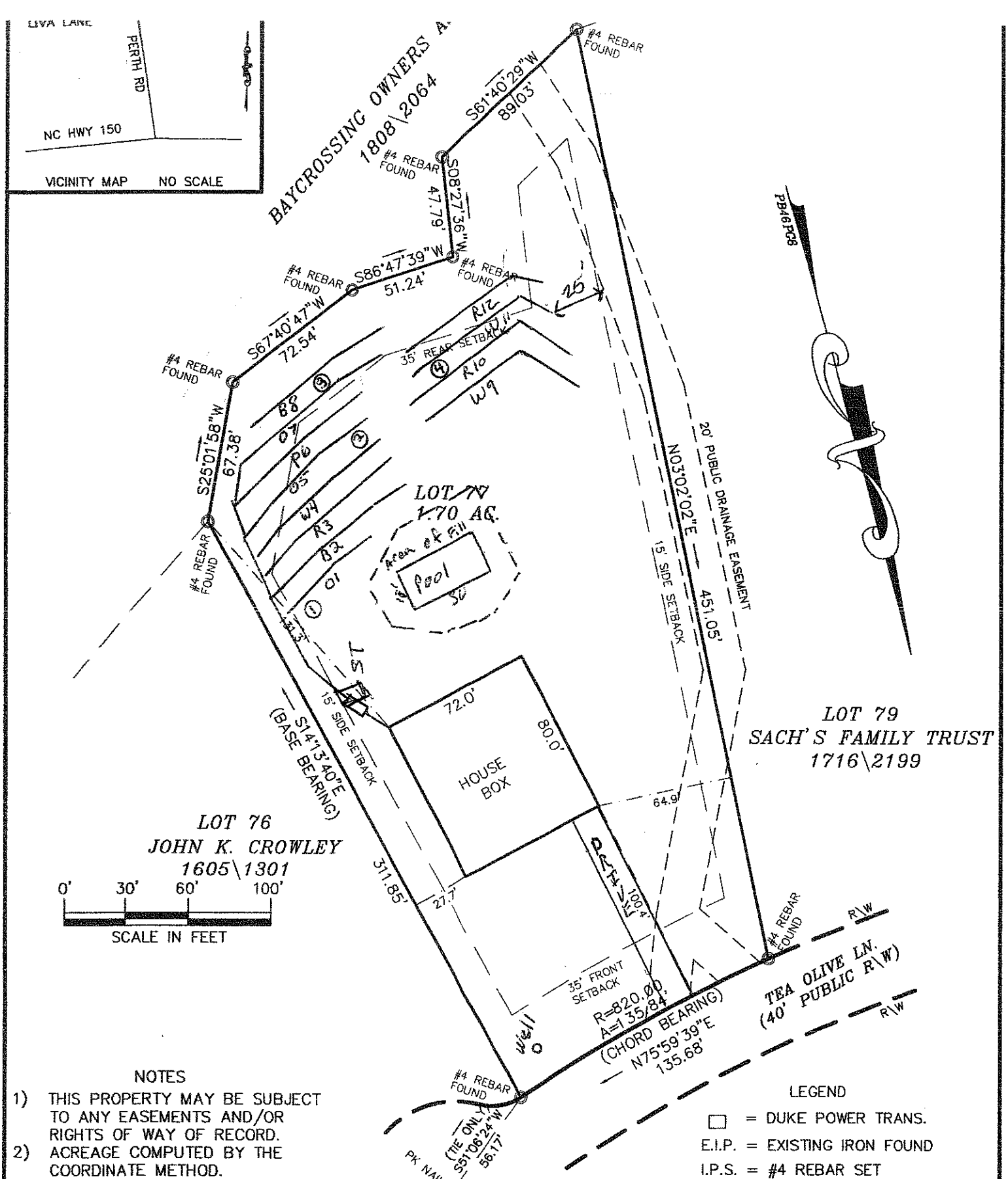
See Attached Plan

Signature: _____

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

_____

DATE



NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

LEGEND

□ = DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
PDE = PUBLIC DRAINAGE EASEMENT

PLOT PLAN SURVEY

OF

140 TEA OLIVE LANE

LOT 77 BAYCROSSING , PHASE 1

SCALE 1" = 60'

DAVIDSON TWSP., IREDELL CO., N.C.

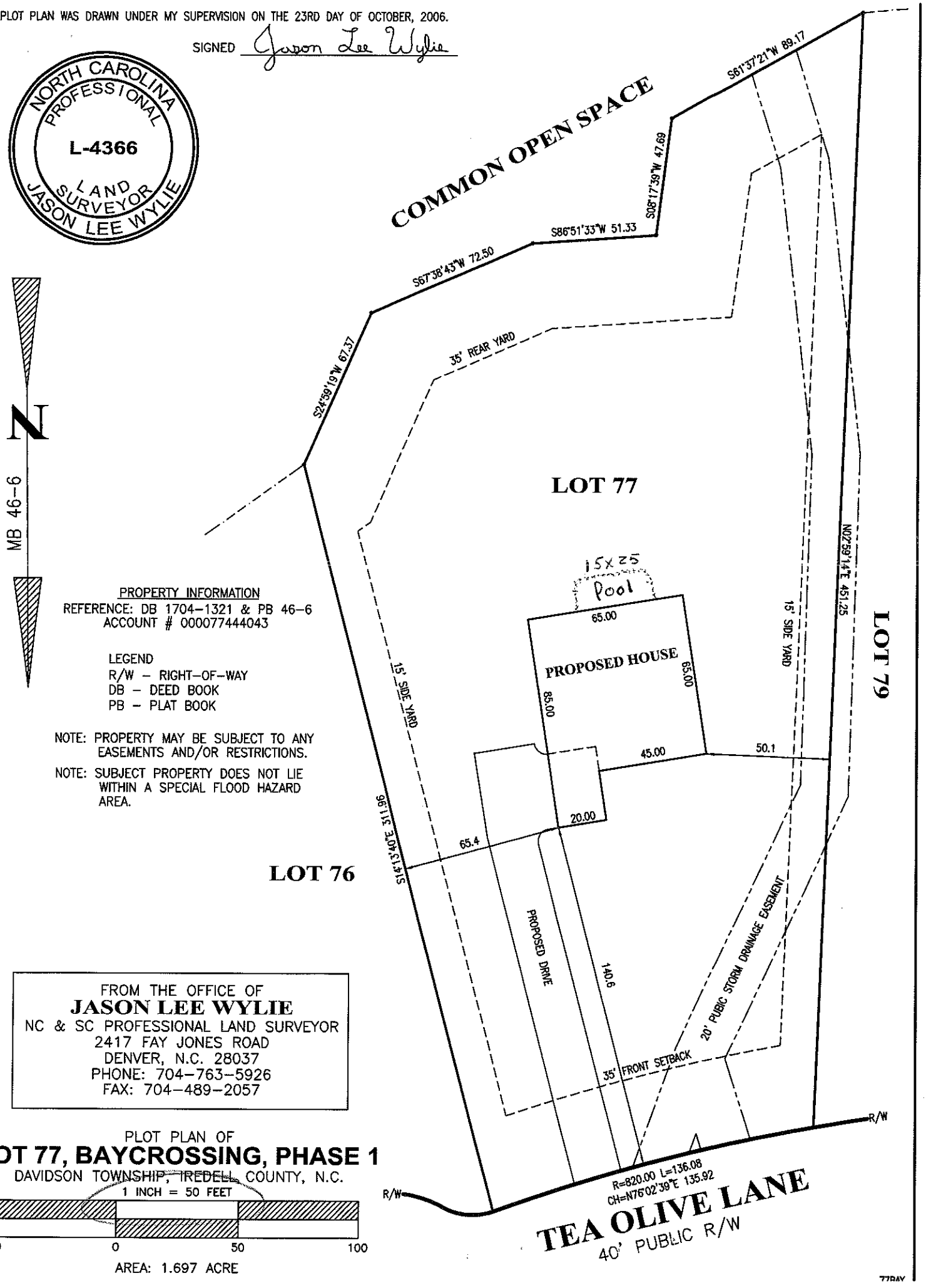
ACQUIRED BY: SHAWN ORR

FIELD BOOK: 500C
FILE: BAYCROSSING LOT 77
DC FILE:
TAX MAP NO: 4639717448

THIS PLOT PLAN WAS DRAWN UNDER MY SUPERVISION ON THE 23RD DAY OF OCTOBER, 2006.

SIGNED Jason Lee Wylie

NORTH CAROLINA PROFESSIONAL L-4366 LAND SURVEYOR JASON LEE WYLIE



N

MB 46-6

PROPERTY INFORMATION
REFERENCE: DB 1704-1321 & PB 46-6
ACCOUNT # 000077444043

LEGEND
R/W - RIGHT-OF-WAY
DB - DEED BOOK
PB - PLAT BOOK

NOTE: PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RESTRICTIONS.

NOTE: SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA.

FROM THE OFFICE OF
JASON LEE WYLIE
NC & SC PROFESSIONAL LAND SURVEYOR
2417 FAY JONES ROAD
DENVER, N.C. 28037
PHONE: 704-763-5926
FAX: 704-489-2057

PLOT PLAN OF
LOT 77, BAYCROSSING, PHASE 1
DAVIDSON TOWNSHIP, IREDELL COUNTY, N.C.

1 INCH = 50 FEET

50 0 50 100

AREA: 1.697 ACRE

77RAY

Iredell County
ZONING PERMIT

227 South Center St. PO Box 788 Statesville, NC 28687 Phone 704-878-3118

Call Sanitarian between 8 a.m. & 9 a.m. Statesville 704-878-5305 Mooresville 704-664-5281

Permit #:	122187ZO	Subdivision:	Bay Crossing
Proposed Use:	Single Family	Township:	1700 Davidson
Location of Property:	000 Tea Olive Ln. Mooresville NC 28117		
Parcel #:	4639-61-5556.077	Zoning:	RA
Lot #:	77 Size: 1.52	Flood Plain:	No Watershed: WSIV-CA
Applicant:	Hecht Properties, Inc. (Blake Kiger)	Owner:	Hecht Properties, Inc. (Blake Kiger)
Address:	885 North Highway 16 Denver NC 28037	Address:	885 North Highway 16 Denver, NC 28037
Phone:	704-483-3651	Phone:	704-483-3651
Property Recorded:	No Site Plan Reviewed:	Community Water:	No Community Sewer:

If permitted the following minimum requirements must be met, unless Health Department requires more land area, or other qualifications are indicated in the comments.

Min. Lot Area: 25000	Min. Front Yard: 35 ft	Min. Left Side Yard: 15 ft
Min. Lot Width: 100	Min: Rear Yard: 35 ft	Min: Right Side Yard: 15 ft
Min. Number Parking Spaces:		Max. Built Upon Area:

Comments:
Hold building permit until plat is recorded

Directions:
Perth Rd south, right on Liva Ln, right on Bay Crossing Dr, right on Tea Olive Ln, on right

FEES

Zoning Permit/Inspection Fee	☑	$45.00
Site Plan Review Fee	☐	$0.00
Environmental Health New System	☑	$200.00
Environmental Health Existing System	☐	$0.00
Total Fees:		$245.00

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Planning & Enforcement Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Applicant:_____ Date: _____

A non-refundable fee of $45.00 is charged on all permit applications.

STEPHANIE WHITLOCK Printed: 6/18/2004

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: lot 77 Bayleaf Crossing PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

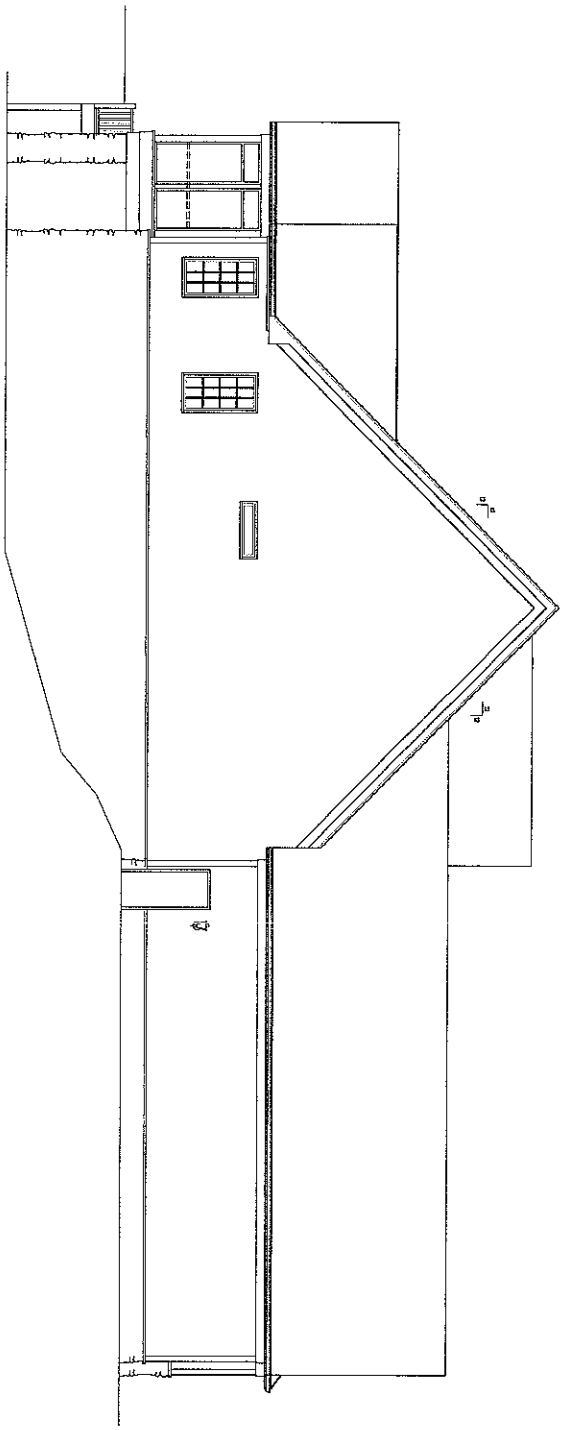
PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1		0-54	RC M/SLmSbK	fri: S,P					PS -3
2	LS 15-20	0-31	red c mmsbk	fri SP					PS.3
		31-50	red cl mfsbk	fri SS SP					
3		0-36	RC MMSBK	fri: SP					PS -3 + 36"
		36+	RC - Rock Inc. >50%						
4		0-3	RSL GR	fri: NSNP					PS -3
		3-26	RC: St MSBK	fri: SP					
		26-50	RCL FSBK	fri: SSSP	Somewhat poorly drained mica Y w/Rock				

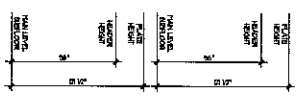
DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: _____
OTHER(S) PRESENT: _____

Shaun & Kathleen Orr
A New Custom Residence
for
PLAN INFO.
PLAN NO.
REVISIONS
SEAL
DRAWN BY
DJL
CHECKED BY
DATE
DRAWING TITLE
FRONT ELEVATION
SCALE: 1/4" = 1'-0"
SHEET NO.
1
OF
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Cathy Gabriel DESIGNS
704.531.6031
www.cathygabrieldesigns.com

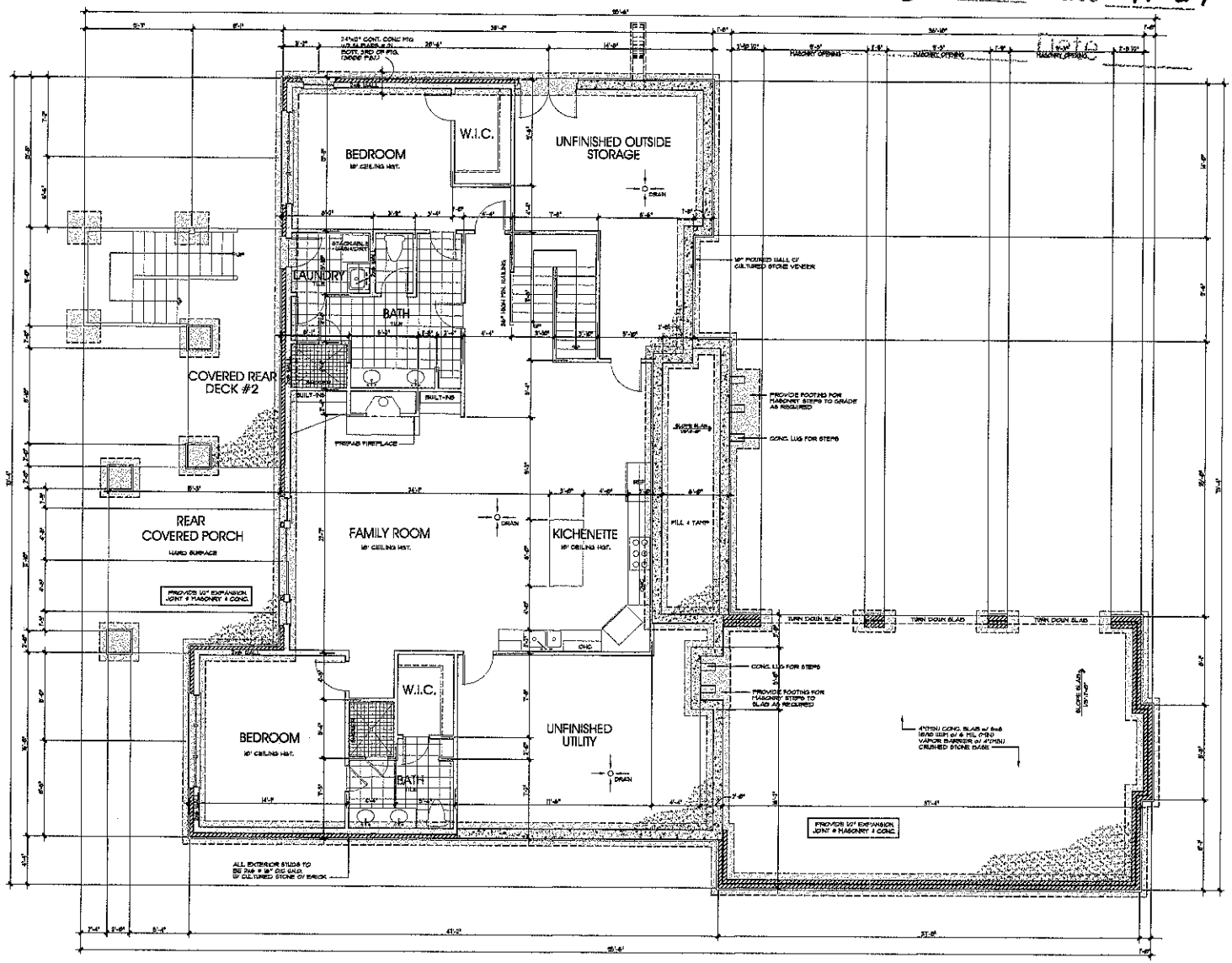




OF - SHEETS	SHEET NO. 1	DRAWING TITLE: LEFT ELEVATION	DATE -	DRAWN BY: D.R. CHECKED BY:	SEAL	PLAN NO.	PLAN INFO. All plans are SOLELY SUGGESTIVE. Drawings are provided without any warranties or guarantees. Builder is responsible for all dimensions and conditions. Any discrepancies must be reported to Raliff Residential Designs before construction. Raliff Residential Designs is not responsible for any errors or omissions on these plans. Builder is responsible for all structural calculations. Any changes made to these plans without the consent of Raliff Residential Designs will void all responsibility. Raliff Residential Designs retains all common law, statutory and other reserved rights, including the copyright.
						REVISIONS	A New Custom Residence for *Shaun & Kathleen Orr*

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Acknowledgement Of
Plans Submittal ONLY
Date 9/16/13



NOTES:

- TYPICAL SLAB/APRON SLABS TO BE 4" THICK CONCRETE W/ 6x6, W1.4/W1.4 WELDED WIRE MESH ON FIBER MESH OVER VAPOR BARRIER OVER 4" COMPACTED GRAVEL BASE
- SEE FRAMING NOTE 1b ON COVER SHEET FOR TYPICAL HEADER INFORMATION UNLESS NOTED OTHERWISE
- FOUNDATION WALL TO BE 10" THICK POURED CONCRETE-SEE DETAIL SHEETS FOR DETAILS ON REAR PROPERTY, ETC.
- TYPICAL EXTERIOR FOOTING TO BE 24"x10" THICK WITH 3-#4 BARS CONTINUOUS @ BASEMENT CONDITIONS & 24"x8" THICK WITH 3-#4 BARS CONTINUOUS @ GARAGE CONDITIONS
- R-LAB INSULATION TO BE R-15 MINIMUM, 24" AT PERIMETER OF FOUNDATION WALL
- TERMITE CONTROL SHALL BE BY CHEMICAL SOIL TREATMENT OR OTHER METHODS APPROVED BY THE NORTH CAROLINA DEPARTMENT OF AGRICULTURE
- ALL EXTERIOR STUDS TO BE 2x6 @ 16" O.C. INTERIOR WALLS TO BE 2x4 @ 12" O.C. UNLESS BEARING. BEARING WALL TO BE 2x6 @ 16" O.C.
- ALL ANGLED WALLS ARE 45° U.N.O.
- INDICATES BLOCKING FOR ABOVE CONCENTRATED LOADS AND ROOF BRACING FROM LOADS UNLESS NOTED OTHERWISE
- PROVIDE DRAIN AT ANY MECHANICAL LOCATION SLOPE CONCRETE TOWARDS DRAIN
- PROVIDE FOUNDATION DRAIN ON FILL SIDE OF WALL & DRAIN TO DAYLIGHT
- STUB IN PLUMBING FOR ALL FUTURE AREAS
- ALL DOORS ARE 6" FROM WALL UNLESS DIMENSIONED OTHERWISE
- PROVIDE BEAM POCKET IN POURED WALL @ REQUIRED FOR BEARING OF DROPPED BEAM.

SQUARE FOOTAGE

MAIN LEVEL	2,627 SQFT.
LOWER LEVEL	1,859 SQFT.
TOTAL HEATED	4,486 SQFT.
THREE CAR GARAGE	944 SQFT.
COVERED PORCH	144 SQFT.
SCREENED PORCH	261 SQFT.
COVERED REAR DECK	189 SQFT.
REAR COVERED PORCH	261 SQFT.
UNFINISHED UTILITY	409 SQFT.
UNFD. OUTSIDE STORAGE	340 SQFT.
TOTAL UNDER ROOF	7,030 SQFT.

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www.ratliffresidentialdesigns.com

PLAN INFO:
A New Custom Residence
Shaun & Kathleen Orr

PLAN NO.

REVISIONS

SEAL

NC Bus. Lic. 11-12161
G.D. Engineering
35 McDermon Place
Mooresville, NC 28117
704-671-8356

DRAWN BY: DJR | CHECKED BY:

DATE

DRAWING TITLE:
LOWER LEVEL PLAN

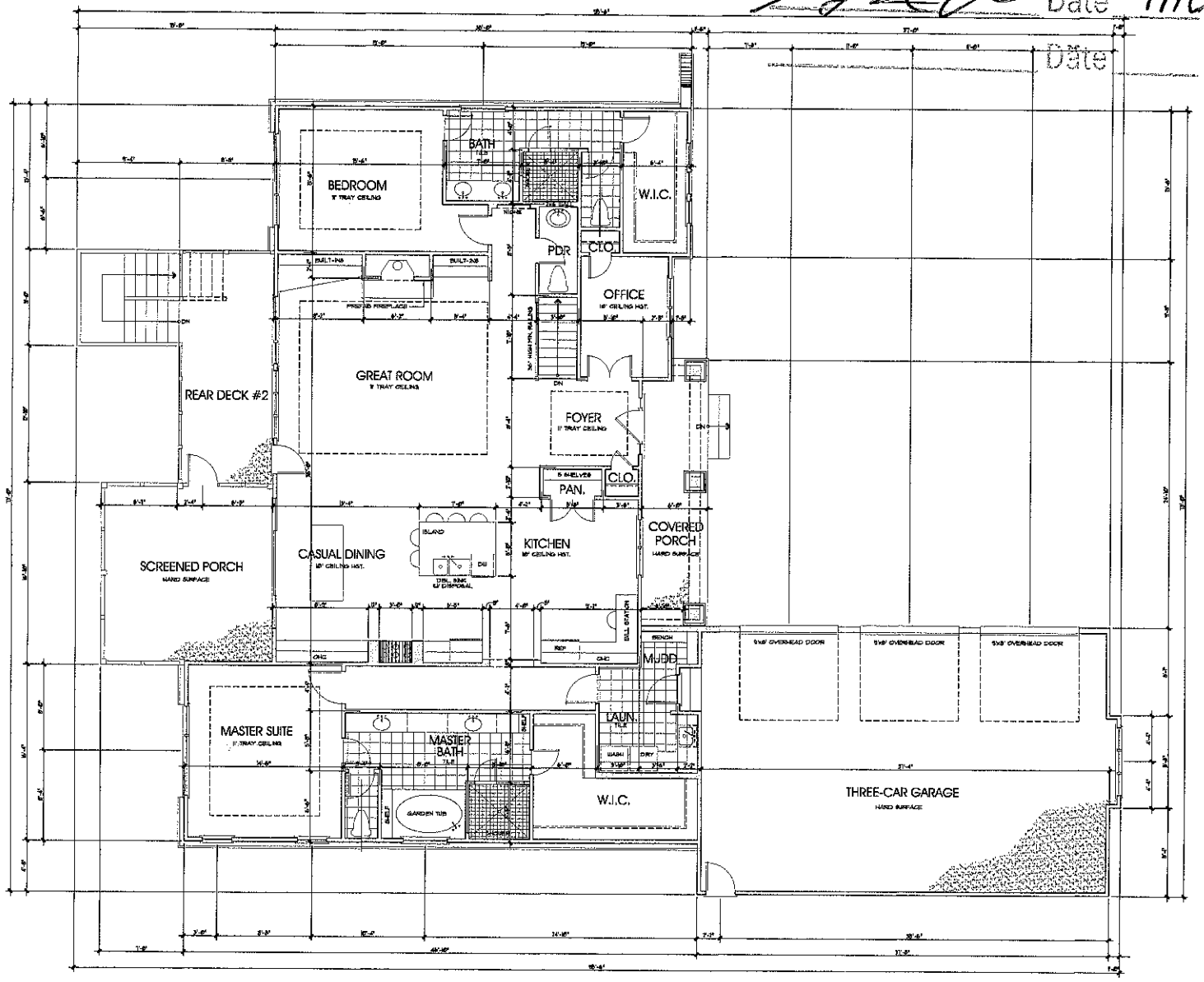
SCALE: 1/4" = 1'-0"

SHEET NO:

OF - SHEETS

Acknowledgement Of
Plans Submittal ONLY!
Date 9/16/13

Date



NOTES:

*ALL ANGLED WALLS ARE 45° U.N.O.

*(B) INDICATES BLOCKING FOR ABOVE CONCENTRATED LOADS AND ROOF BRACING POINT LOADS U.N.O.

*SEE FRAMING NOTE 16 FOR HEADER SIZES UNLESS NOTED ON PLAN.

*ALL DOORS ARE 6" FROM WALL UNLESS DIMENSIONED OTHERWISE

EXTERIOR WALL HEIGHT (h)	STUD SIZE/ SPACING
11' ≤ h ≤ 10'	2x4 @ 16" o/c
10' ≤ h ≤ 11'	2x4 @ 12" o/c
11' ≤ h ≤ 13'	2x6 @ 16" o/c
h >13'	CONSULT ENG.

GARAGE WALL TO BE 2x6 @ 16" O.C. IF EXCEEDING 10' IN HEIGHT

SQUARE FOOTAGE

MAIN LEVEL	2,621 SQFT.
LOWER LEVEL	1,859 SQFT.
TOTAL HEATED	4,486 SQFT.
THREE CAR GARAGE	944 SQFT.
COVERED PORCH	144 SQFT.
SCREENED PORCH	261 SQFT.
COVERED REAR DECK	185 SQFT.
REAR COVERED PORCH	261 SQFT.
UNFINISHED UTILITY	405 SQFT.
UNFD. OUTSIDE STORAGE	340 SQFT.
TOTAL UNDER ROOF	7,032 SQFT.

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PLAN INFO: A New Custom Residence for Shaun & Kathleen Orr

PLAN NO.

REVISIONS

SEAL

NC BUS. LIC. # P-0116
G.R. Engineering
23 Hickman Place
Hendersonville, NC 28791
(864)-471-8339

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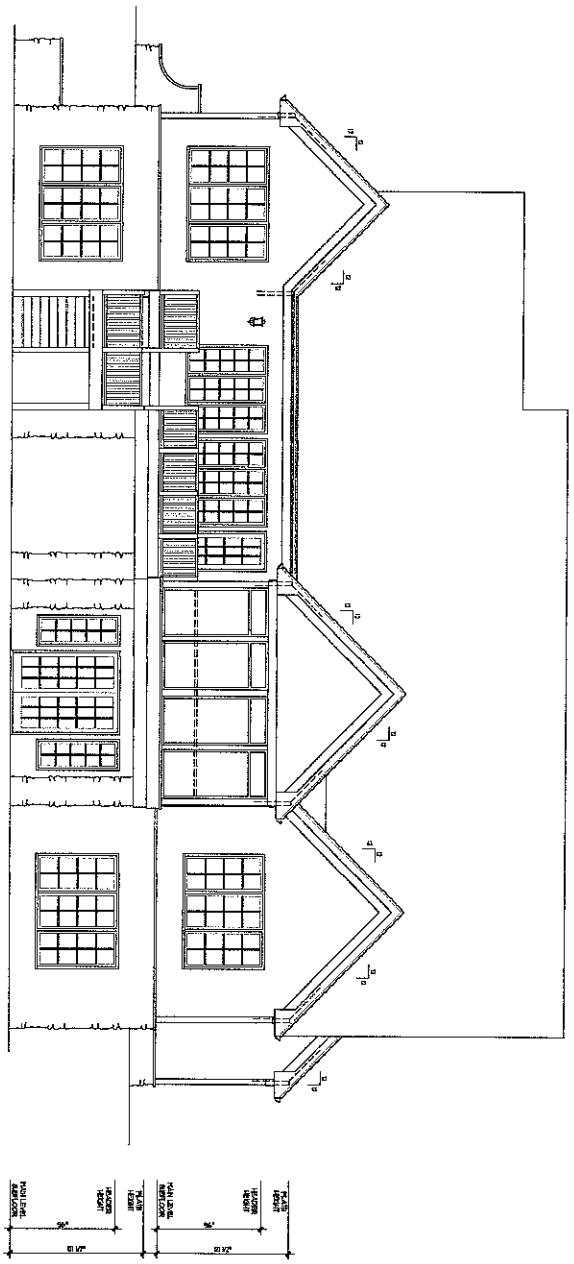
DATE: -

DRAWING TITLE: MAIN LEVEL PLAN

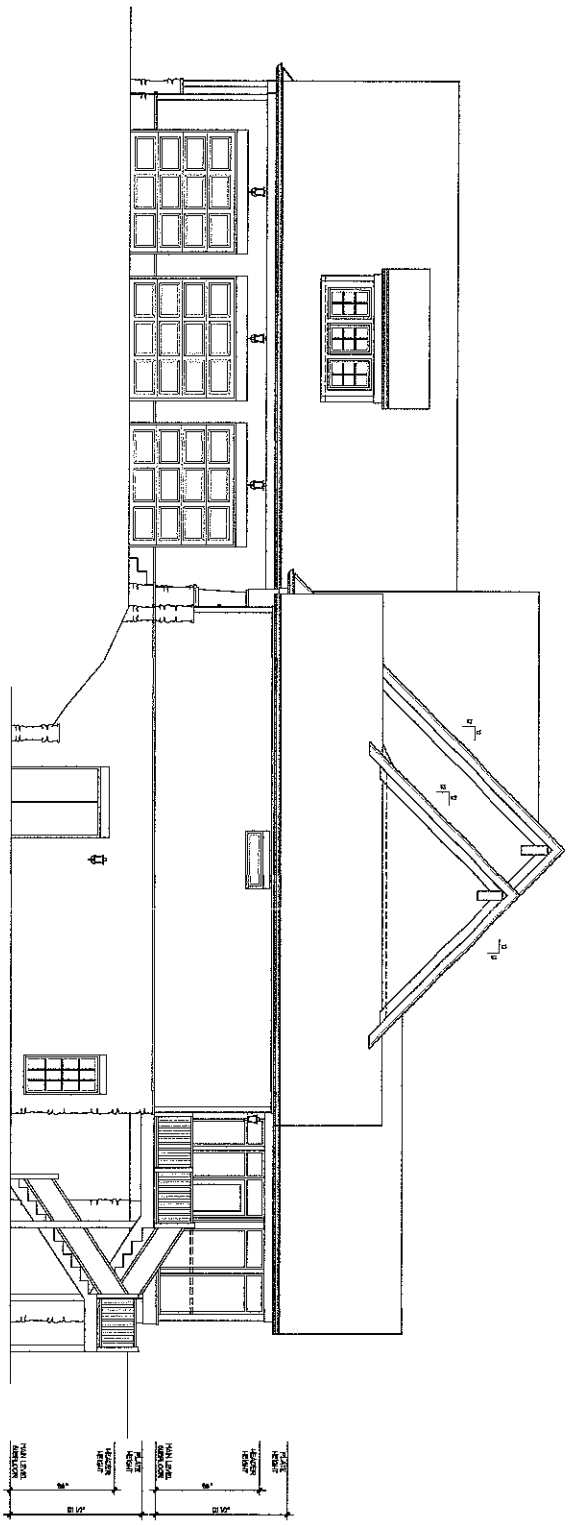
SCALE: 1/4" = 1'-0"

SHEET NO.: -

OF - SHEETS



OF 1 SHEETS	DRAWING TITLE: REAR ELEVATION SCALE: 1/4" = 1'-0" SHEET NO:	DATE:	DRAWN BY: DR CHECKED BY:	SEAL	PLAN NO. REVISIONS	PLAN INFO. All plans by Raliff Residential Designs are protected by federal copyright laws and are the property of Raliff Residential Designs. However, local variations may require changes (plans, building code requirements vary with location and change from time to time. Before starting construction, your contractor should check and be responsible for all dimensions and other details, and should advise Raliff Residential Designs of any need current governmental adjustments to plans.) A New Custom Residence for *Shaun & Kathleen Orr*		Raliff residential DESIGNS 704.631.6031 www.raliffresidentialdesigns.com



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SCALE: 1/4" = 1'-0"	CHECKED BY:		REVISIONS	A New Custom Residence for *Shaun & Kathleen Orr*		
SHEET NO. 1 OF 1 SHEETS	DATE: -			-		