

ADDRESS : 71 ROBERT BRANCH CIR
CONTRACTOR : MCLEOD SHANE
OWNER : RIDDLE RONALD
PARCEL : 08-0652- - -0097- -17-
APPL NUMBER: 06-50015863 CP NEW RESIDENTIAL (SFD)

SUBDIV: MILL BRANCH
PHONE : (910) 591-9727
PHONE : (919) 902-9313

DIRECTIONS : 401 NORTH RIGHT INTO MILL BRANCH S/D
TURN LEFT ON ROBERT BRANCH CR LOT ON
LEFT LOT 17 JB

STRUCTURE: 000 000 70X50 3BDR CRAWL W/ GARAGE & DECK

FLOOD ZONE : FLOOD ZONE X

BEDROOMS : 3.00

PROPOSED USE : SFD

SEPTIC - EXISTING? : NEW

WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED	INSP	DESCRIPTION
COMPLETED	RESULT	RESULTS/COMMENTS	
B101 01	5/14/09 <u>5-14-09</u>	TI <u>APBS</u>	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001767946

COMMENTS AND NOTES

After lunch

ADDRESS . . : 71 ROBERT BRANCH CIR
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B101 01	5/14/09	BS	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001767946
	5/14/09	AP	no premise number for tpole
B103 01	5/21/09 <i>5-21-09</i>	TT <i>AEBS</i>	R*BLDG FOUND & TEMP SVC POLE VRU #: 001771229

----- COMMENTS AND NOTES -----

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	5/21/09	AE	1. Install damproofing up to final exterior grade level. If exterior is to be 12" higher or more, install drain system. leave exterior of foundation open. Will check damproofing at open floor inspection. 2. No access to underside of front porch.
B105 01	5/29/09 <u>5-29-09</u>	TI <u>APBS</u>	R*OPEN FLOOR VRU #: 001774322 waterproofing completed on ext. of foundation. We are going to fill the porch with gravel and then concrete rather than panning, so that is why there is no access. have a great day. Thanks for your help, Shane 910-59197

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	6/18/09	AP	71 ROBERT BRANCH CIR LOT 17 FUQUAY VARINA 27526
B101 02	7/02/09	TI	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 001789270
	<u>7.2.09</u>	<u>APB</u>	T/S: 07/01/2009 09:02 AM NTART ----- WILL BE FOR THE DECK FOOTINGS.

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R427 01	7/10/09 <u>7-10-09</u>	TI <u>DABS</u>	FOUR TRADE ROUGH IN >2500 VRU #: 001792514

COMMENTS AND NOTES

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R427 02	7/14/09	TI	FOUR TRADE ROUGH IN >2500 VRU #: 001793678
	"	AP	eng. letter in box. thanks, Shane

AP
KS

COMMENTS AND NOTES

MASSENGILL ASSOCIATES, P.A.

CONSULTING ENGINEERING
DESIGN AND PROJECT MANAGEMENT

114 E. MAIN ST., P.O. BOX 695 • BENSON, N.C. 27504-0695 • (919) 894-2071

TO: BRAD FAX 910. 814. 8277

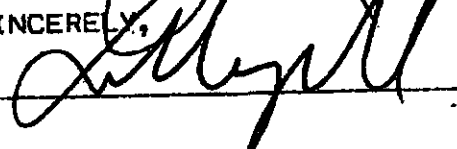
LOCATION: _____ DATE 7-14-09 TIME 9:30

FROM: LARRY W. MASSENGILL, FAX: 919.894.7288

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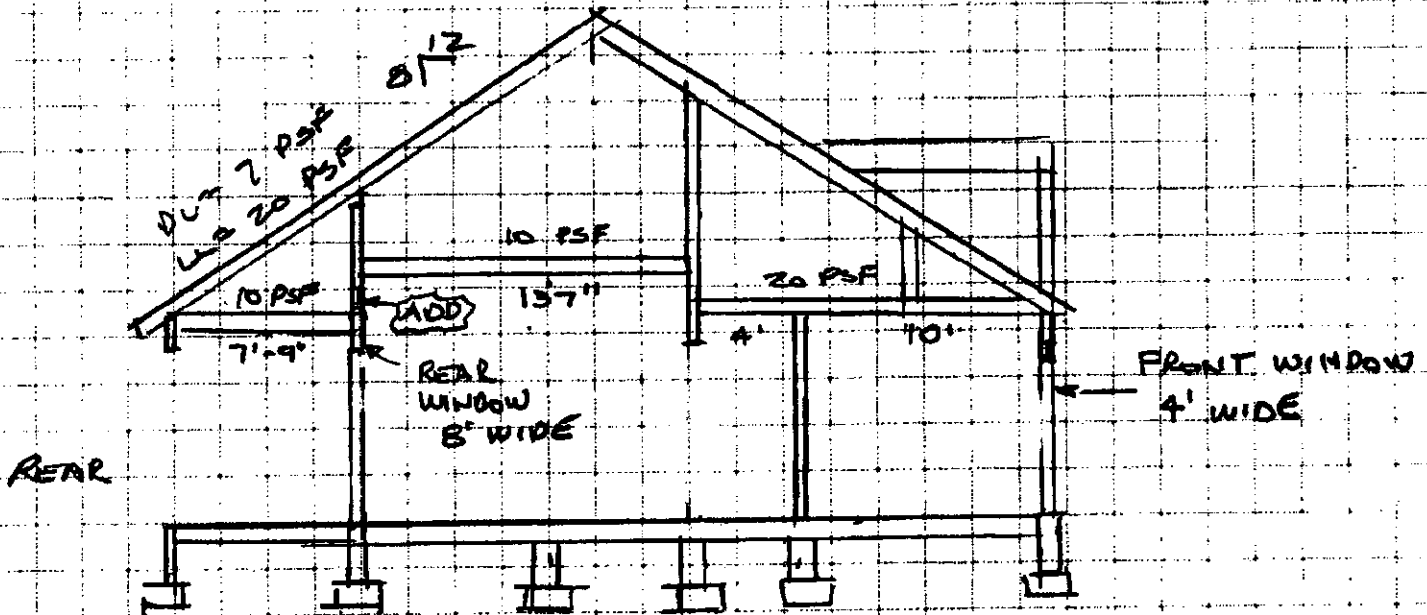
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SHANE 891 5566

MASSENGILL ASSOCIATES, P.A.
 Consulting Engineering
 Design And Project Management
 116 East Main Street P.O. Box 695
 BENSON, NORTH CAROLINA 27504-0695
 (919)-894-2071 FAX (919)-894-7288

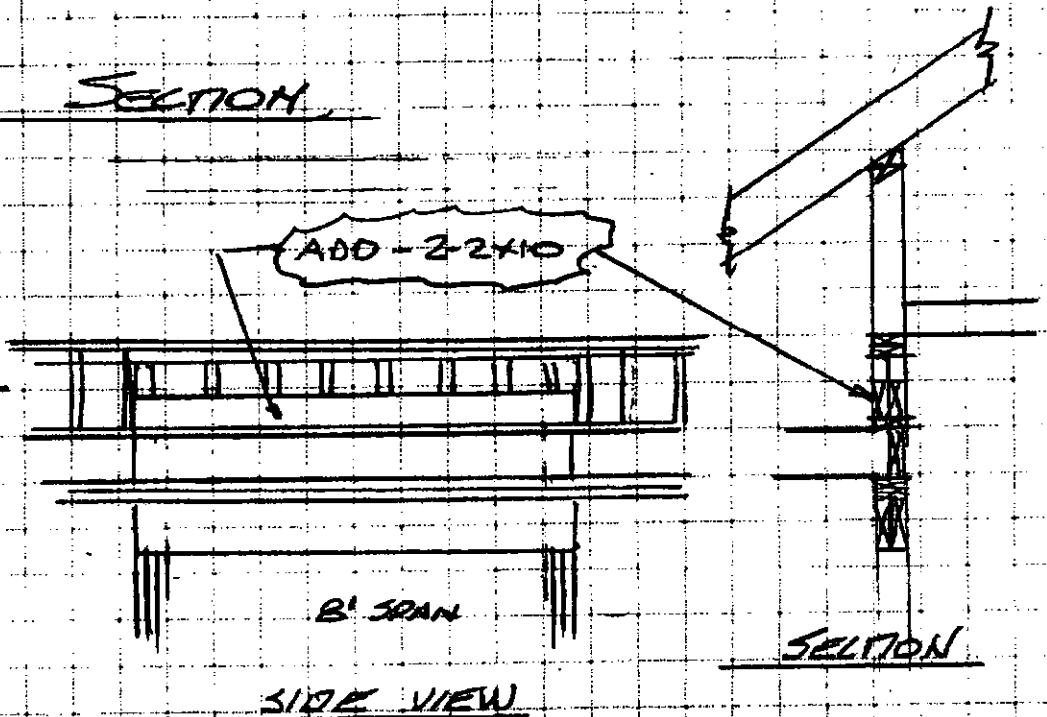
JOB RIDDLE RES LOT 17 Mill BR.
 SHEET NO. 5-1 OF 5-3
 CALCULATED BY WJH DATE 7-13-09
 CHECKED BY _____ DATE _____
 SCALE _____



SUMMARY:

WITH THE ADDITION
 OF 2-2x10 OVER
 THE REAR WINDOW
 THE HEADERS WILL
 BE ADEQUATE TO
 SUPPORT THE LL PL
 ABOVE THE WINDOW
 OPENING. SEE S-3
 & 3.1

SECTION



MASSENGILL ASSOCIATES, P.A.
116 EAST MAIN STREET, P.O. BOX 695
BENSON, NORTH CAROLINA 27504-0695

SHEET NO. 2 OF _____
DATE: 7-13-2009

919-894-2071 FAX: 919-894-7288

STRUCTURAL DESIGN CALCULATIONS: PROJECT: RIDDLE RES.

CONSIDER: FRONT WINDOW B- 1W

LIVE LOADS:

SPAN: 41

ROOF 20 PSF 7 FT = 140

CEILING _____ PSF _____ FT = _____

FLOOR 20 PSF 5 FT = 100

WALL 20 PSF 2 FT = 40

_____ PSF _____ FT = _____

TOTAL LL = 280

DEAD LOADS:

ROOF 7 PSF 7 FT = 50

REACTIONS: _____ CEILING _____ PSF _____ FT = _____

OF STUDS _____ FLOOR 10 PSF 5 FT = 50

BEAM WT. = 10

ETL: _____ = _____

TOTAL DL = 110

DESIGN TOTAL LOADING = 390 POUNDS/LF



BY: [Signature] P.E.

USE BEAM TYPE: 2-2x10 OR _____
OR _____
OR _____

OK
As Is

MASSENGILL ASSOCIATES, P.A.
116 EAST MAIN STREET, P.O. BOX 695
BENSON, NORTH CAROLINA 27504-0695

SHEET NO. 3 OF

DATE: 7-13-2007

919-894-2071 FAX: 919-894-7288

STRUCTURAL DESIGN CALCULATIONS: PROJECT: RIDDLE RES

CONSIDER: REAR WINDOW B- 1R

GRAND LODGE RM
LIVE LOADS:

SPAN: 8' ROOF 20 PSF 14' FT = 280
 CEILING 10 PSF 12 FT = 120
 FLOOR - PSF - FT = -
 WALL 2 PSF 4 FT = 8
 PSF FT =
 TOTAL LL = 408

DEAD LOADS:

ROOF 7 PSF 14 FT = 98

REACTIONS: CEILING 10 PSF 12 FT = 120

OF STUDS FLOOR - PSF - FT = -

BEAM WT. = 10

ETL: =

TOTAL DL = 228

DESIGN TOTAL LOADING = 636 POUNDS/LF

EXISTING 2-2x10
USE BEAM TYPE: ADD 2-2x10



BY: [Signature] P.E.

SEE TABLE H-1
ATTACHED

One and Two Family Dwelling Code

3.1

TABLE No. H-1

WOOD BEAMS AND GIRDERS (19%) #2 GRADE, ALLOWABLE LOADS IN POUNDS PER LINEAR FOOT SIMPLE SPAN, DEFLECTION = L/360, LOAD DURATION FACTOR 1.0, ADEQUATE BEARING AND LATERAL SUPPORT MUST BE PROVIDED

2 X 8 (1-1/2 X 7-1/4)

SPECIES SPAN ² (feet)	SPRUCE-PINE-FIR ¹ NUMBER OF MEMBERS			SOUTHERN PINE NUMBER OF MEMBERS		
	2	3	4	2	3	4
3	1133	1700	2266	1457	2186	2914
4	727	1091	1454	935	1403	1870
5	535	803	1070	688	1032	1376
6	424	636	848	538	807	1076
7	350	525	700	400	600	800
8	270	405	540	309	464	618
9	215	323	430	246	369	492
10	175	263	350	200	300	400
12	107	161	214	123	185	246
14	68	102	136	78	117	156

2 x 10 (1-1/2 x 9-1/4)

SPECIES SPAN ² (feet)	SPRUCE-PINE-FIR ¹ NUMBER OF MEMBERS			SOUTHERN PINE NUMBER OF MEMBERS		
	2	3	4	2	3	4
3	1776	2664	3552	2283	3425	4566
4	1054	1581	2408	1355	2033	2710
5	749	1124	1498	963	1445	1926
6	581	872	1162	747	1121	1494
7	475	713	950	570	855	1140
8	401	602	802	440	660	880
9	321	482	642	350	525	700
10	261	392	522	285	428	570
12	183	275	366	200	300	400
14	135	203	270	147	221	294

2 x 12 (1-1/2 x 11-1/4)

SPECIES SPAN ² (feet)	SPRUCE-PINE-FIR ¹ NUMBER OF MEMBERS			SOUTHERN PINE NUMBER OF MEMBERS		
	2	3	4	2	3	4
3	2800	4200	5600	3600	5400	7200
4	1482	2223	2964	1906	2859	3812
5	1008	1512	2016	1296	1944	2592
6	764	1146	1528	982	1473	1964
7	615	923	1230	783	1175	1566
8	514	771	1028	604	906	1208
9	431	647	862	481	722	962
10	351	527	702	392	588	784
12	246	369	492	274	411	548
14	182	273	364	203	305	406

1. SPRUCE-PINE-FIR NOT SPRUCE-PINE-FIR (SOUTHERN) IS USED IN THIS TABLE
 2. SPAN IS CLEAR SPAN - EFFECTIVE SPAN FOR BENDING AND DEFLECTION IS CLEAR SPAN PLUS 3"

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	7/10/09	DA	1. No water on drain test. 2. Need engineering on all exterior window and door headers (twins or larger). Plan shows stud pockets for header support3. All roof supports for valleys and hips must be on a load wall. Cannot support on ceiling joists. ok to side.
R427 02	7/14/09	KS	FOUR TRADE ROUGH IN >2500 VRU #: 001793678
	7/14/09	AP	eng. letter in box. thanks, Shane
I129 01	7/16/09	TI	R*INSULATION INSPECTION VRU #: 001794569

7-16-09 *APBS*

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I129 01	7/16/09	BS	R*INSULATION INSPECTION VRU #: 001794569
	7/16/09	AP	T/S: July 16, 2009 10:25 AM BSUTTON -----
R431 01	9/10/09	TI	FOUR TRADE FINAL >2500 VRU #: 001818442
	9/09/09	CA	T/S: 09/09/2009 02:14 PM NTART ----- CANCELLED FINAL INSPECTIONS.....NO OPERATIONS PERMIT. NJT
H824 01	9/10/09	BM	ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 001821602

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R431 02	9/11/09 9/10/09	TI CA	FOUR TRADE FINAL >2500 VRU #: 001820232 if you could come as late as possible that would be great. My electrician has to hang 1 light and run some conduit to the septic pump. Thanks for your help, Shane 910-591-9727 T/S: 09/10/2009 02:23 PM NTART ----- CANCELLED FINAL INSPECTION (2ND) TIME.....NO OPERATIONS PERMIT. 09/10/09. NJT
R431 03	9/15/09 9/14/09	TI CA	FOUR TRADE FINAL >2500 VRU #: 001820547 T/S: 09/14/2009 02:16 PM NTART ----- CANCELLED FINAL INSPECTION.....NO OPERATIONS PERMIT. NJT
R431 04	9/15/09 <u>9-15-09</u>	TI <u>DRBS</u>	FOUR TRADE FINAL >2500 TIME: 17:00 VRU #: 001821651 T/S: 09/14/2009 03:24 PM NTART -----

COMMENTS AND NOTES

ADDRESS : 71 ROBERT BRANCH CIR SUBDIV: MILL BRANCH
 CONTRACTOR : MCLEOD SHANE PHONE : (910) 591-9727
 OWNER : RIDDLE RONALD PHONE : (919) 902-9313
 PARCEL : 08-0652- - -0097- -17-
 APPL NUMBER: 06-50015863 CP NEW RESIDENTIAL (SFD)

DIRECTIONS : 401 NORTH RIGHT INTO MILL BRANCH S/D
 TURN LEFT ON ROBERT BRANCH CR LOT ON
 LEFT LOT 17 JB
 PREMISE # 97451382 *****

STRUCTURE: 000 000 70X50 3BDR CRAWL W/ GARAGE & DECK
 FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00 PROPOSED USE : SFD
 SEPTIC - EXISTING? : NEW WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	5/14/09	BS	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001767946
	5/14/09	AP	no premise number for tpole
B103 01	5/21/09	BS	R*BLDG FOUND & TEMP SVC POLE VRU #: 001771229
	5/21/09	AE	1. Install damproofing up to final exterior grade level. If exterior is to be 12" higher or more, install drain system. leave exterior of foundation open. Will check damproofing at open floor inspection. 2. No access to underside of front porch.
B105 01	5/29/09	BS	R*OPEN FLOOR VRU #: 001774322
	5/29/09	AP	waterproofing completed on ext. of foundation. We are going to fill the porch with gravel and then concrete rather than panning, so that is why there is no access. have a great day. Thanks for your help, Shane 910-59197
A814 01	6/10/09	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001779099
	6/18/09	AP	✓ 71 ROBERT BRANCH CIR LOT 17 FUQUAY VARINA 27526
B101 02	7/02/09	BS	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 001789270
	7/02/09	AP	T/S: 07/01/2009 09:02 AM NTART ----- WILL BE FOR THE DECK FOOTINGS. -----
R427 01	7/10/09	BS	FOUR TRADE ROUGH IN >2500 VRU #: 001792514
	7/10/09	DA	1. No water on drain test. 2. Need engineering on all exterior window and door headers (twins or larger). Plan shows stud pockets for header support3. All roof supports for valleys and hips must be on a load wall. Cannot support on ceiling joists. ok to side.
R427 02	7/14/09	KS	FOUR TRADE ROUGH IN >2500 VRU #: 001793678
	7/14/09	AP	eng. letter in box. thanks, Shane
I129 01	7/16/09	BS	R*INSULATION INSPECTION VRU #: 001794569
	7/16/09	AP	T/S: July 16, 2009 10:25 AM BSUTTON -----
R431 01	9/10/09	TI	FOUR TRADE FINAL >2500 VRU #: 001818442
	9/09/09	CA	T/S: 09/09/2009 02:14 PM NTART ----- CANCELLED FINAL INSPECTIONS.....NO OPERATIONS PERMIT. NJT
H824 01	9/10/09	BM	✓ ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 001821602

ADDRESS : 71 ROBERT BRANCH CIR
 CONTRACTOR : MCLEOD SHANE
 OWNER : RIDDLE RONALD
 PARCEL : 08-0652- - -0097- -17-
 APPL NUMBER: 06-50015863 CP NEW RESIDENTIAL (SFD)

SUBDIV: MILL BRANCH
 PHONE : (910) 591-9727
 PHONE : (919) 902-9313

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
	9/10/09	AP	T/S: 09/14/2009 02:16 PM CPIERCE ----- T/S: 09/14/2009 02:17 PM CPIERCE -----
R431 02	9/11/09 9/10/09	TI CA	FOUR TRADE FINAL >2500 VRU #: 001820232 if you could come as late as possible that would be great. My electrician has to hang 1 light and run some conduit to the septic pump. Thanks for your help, Shane 910-591-9727 T/S: 09/10/2009 02:23 PM NTART ----- CANCELLED FINAL INSPECTION (2ND) TIME.....NO OPERATIONS PERMIT. 09/10/09. NJT
R431 03	9/15/09 9/14/09	TI CA	FOUR TRADE FINAL >2500 VRU #: 001820547 T/S: 09/14/2009 02:16 PM NTART ----- CANCELLED FINAL INSPECTION.....NO OPERATIONS PERMIT. NJT
R431 04	9/15/09 9/15/09	BS DP	FOUR TRADE FINAL >2500 TIME: 17:00 VRU #: 001821651 T/S: 09/14/2009 03:24 PM NTART ----- 1. insulate trap and water lines on garage sink. 2. Must have address posted on structure. 3. Downdraft stove in kitchen must be piped to exterior. 4 Need a lockout or disconnect on water heater. 5. Float switch for hvac unit condensate pump shall be connected to unit to shut down equipment. 6. Strap all ductwork under house that is sagging or does not have minimum ground clearance and secure outer insulation properly at ends. \$50 re fee
R431 05	9/17/09 <u>9.17.09</u>	TI <u>ARBS</u>	FOUR TRADE FINAL >2500 VRU #: 001822675

COMMENTS AND NOTES

**COUNTY OF HARNETT
DEPARTMENT OF BUILDING INSPECTION
AND PLANNING/DEVELOPMENT
CERTIFICATE OF OCCUPANCY**

This certificate issued pursuant to the requirements of Section 105 of the North Carolina State Building Code and the Harnett County Zoning Ordinance certifies at the time of issuance this structure was in compliance with the various ordinances of the County of Harnett regulating development and building construction or use. For the following:

Use Classification: SFD

Conditional Use Permit No.: _____

Type of Construction: V

Building Permit No.: 06-50015863

Owner of Building: Ronal Riddle

Electrical Permit No.: 06-50015863

Building Address: 71 Robert Branch Circle

Insulation Permit No.: 06-50015863

Zoning District: NA

Plumbing Permit No.: 06-50015863

Zoning Permit No.: NA

Mech. Permit No.: 06-50015863

Date: 09/17/2009

Envir. C.O. No.: 06-50015863

Ronal Riddle

Building Official

Zoning Official