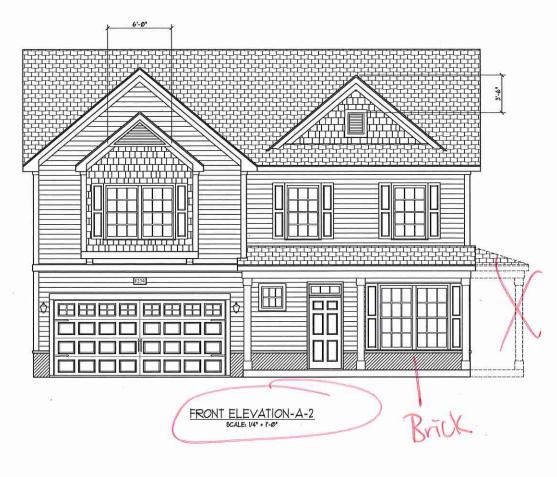






FRONT ELEVATION-A-3





FRONT ELEVATION-A-4



RENAISSANCE
RESIDENTIAL DESIGN, INC.
4810 GLEPINIST CT. | FRALEIGH, NO 27612
(919) 646-4128
WWW.RRDCAROLEX.COM
The act of transforming your vision into realsy.



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 18, 2017 REV.:

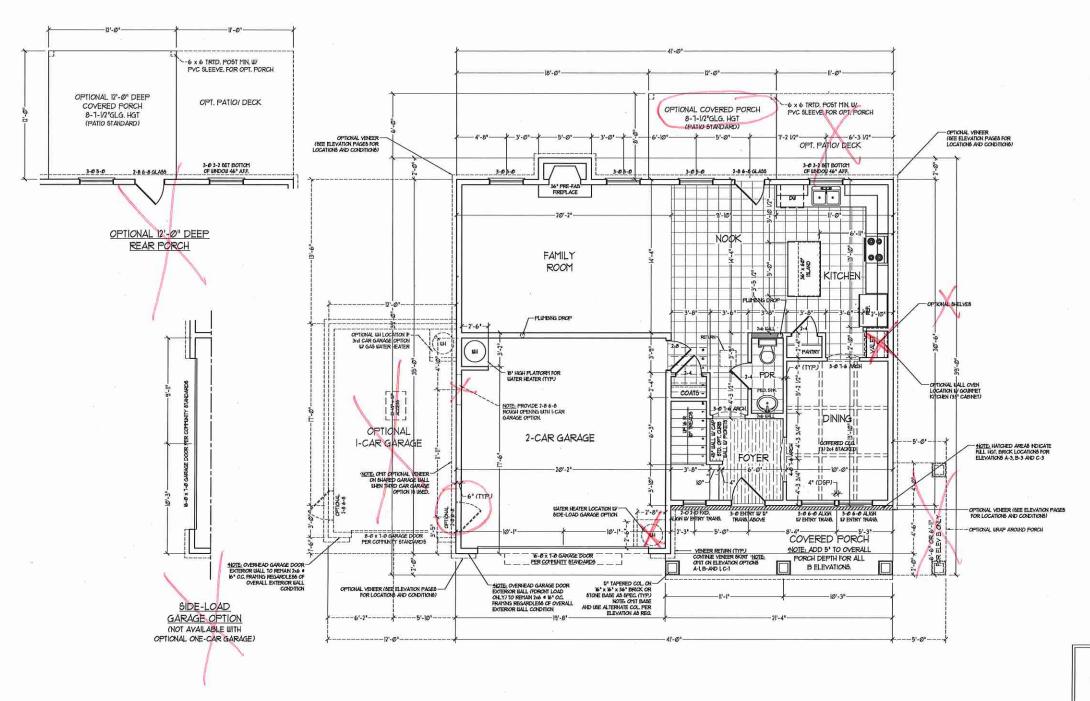
SCALE: AS NOTED

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY: JES

A - ELEVATION **OPTIONS**

A-1.1



8-0 x 1-0 GARAGE DOOR FER COMMINITY STANDARDS

SIDE-LOAD

GARAGE OPTION

(NOT AVAILABLE WITH

OPTIONAL ONE-CAR GARAGE)

8-0 x 1-0 GARAGE DOOR FER CONTUNITY STANDARDS

DOUBLE GARAGE

DOOR OPTION

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 9 16" O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO), ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 X 4 9 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 = 24" O.C. (UNO).

2x6 WALL

· SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION

SQUARE FOOTAGE

lat FLOOR: 949 SQ. FT. 2nd FLOOR: 1351 SQ. FT. TOTAL: 2300 SQ. FT. FRONT PORCH: 137 SQ. FT. STD. REAR PATIO: 96 SQ. FT. GARAGE: 401 SQ. FT.

SQUARE FOOTAGE (OPTIONS)

FIRST FLOOR (BRICK):	999 SQ. FT.
SECOND FLOOR (BRICK):	1405 SQ. FT.
TOTAL (BRICK):	24Ø4 SQ. FT.
GARAGE (BRICK):	418 SQ. FT.
FRONT PORCH (WRAP OPTION):	53 SQ. FT.
REAR PORCH (8-Ø DEEP):	96 SQ. FT.
REAR PORCH (12-Ø DEEP):	144 SQ. FT.
OPT. PATIO/ DECK: (8-Ø DEEP):	88 SQ. FT.
OPT. PATIO/ DECK: (12-Ø DEEP):	132 SQ. FT.
I-CAR GARAGE:	240 SQ. FT.



RENAISSANCE

RESIDENTIAL DESIGN, INC.
4810 GLEMIST CT. | RALEIGH, NC 27612
1919) 649-4128
WWW.RRDCAROLEVA.COM
*The art of transforming your vision into realty.



NC. H&H HOMES, I TOPSAIL

DATE: OCTOBER 18, 2017 REV.:

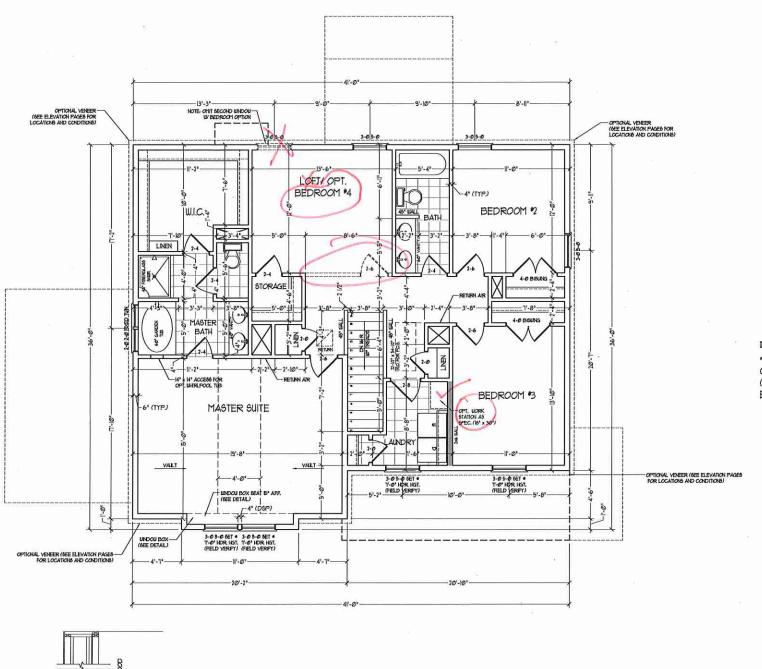
SCALE: 1/4"=1'-0"

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY: JES

FIRST FLOOR PLAN

A-4



2 x 6 FLOORJOISTS

2 x 8 BOX DOWN-FOR EXTERIOR TRIM

BRACKET AS SPECIFIED-

WINDOW BOX DETAIL 8CALE; NT8

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO), 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

2x6 WALL

· SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION



RENAISSANCE

RESIDENTIAL DESIGN, INC.
4610 GLENMIST CT. | RALEIGH, NC 27612
(919) 649-4128
WWW.RRDCAROLINA.COM
'The art of transforming your vision into really.



INC. H&H HOMES, I TOPSAIL

DATE: OCTOBER 18, 2017

REV.:

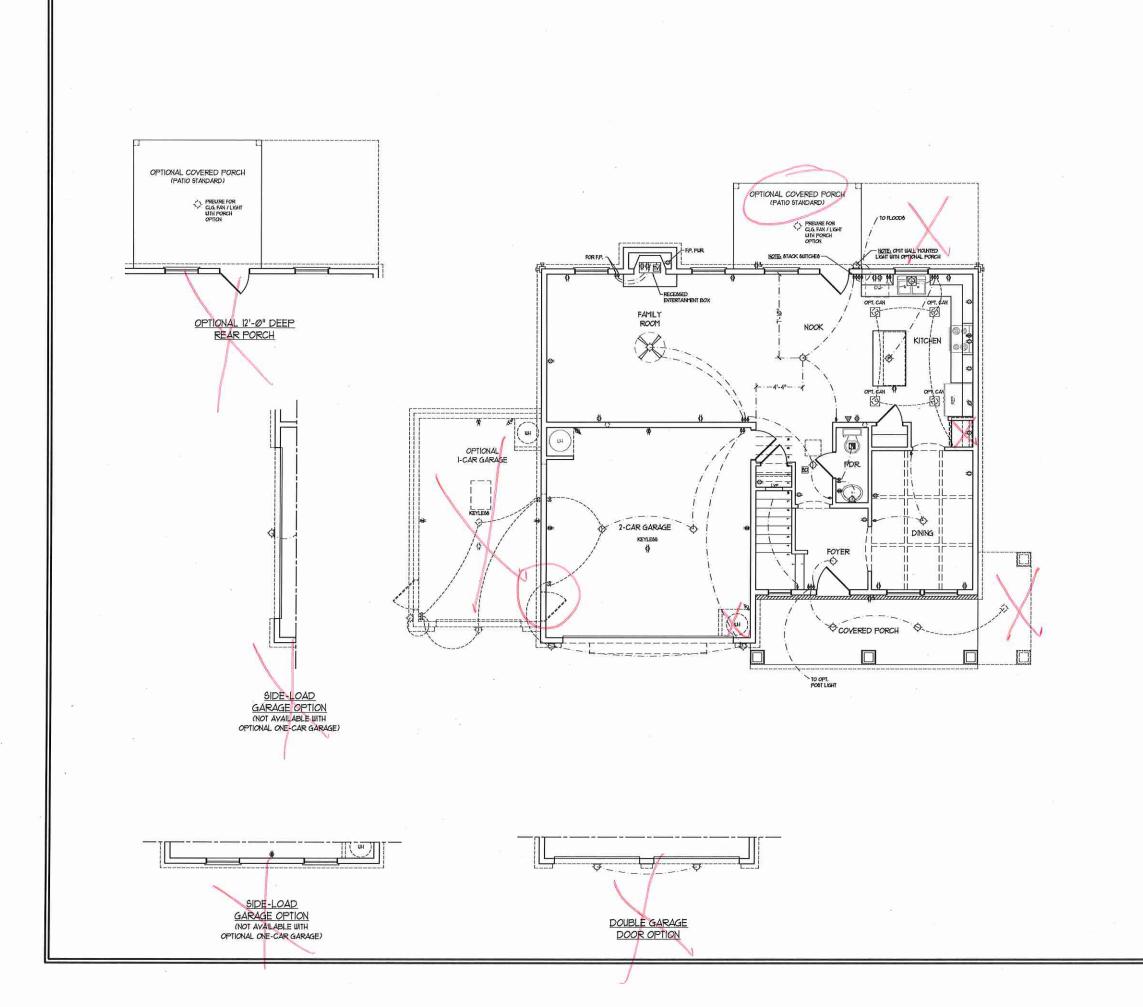
SCALE: 1/4"=1'-0"

DRAWN BY: WG

ENGINEERED BY: WLF REVIEWED BY: JES

PLAN

A-5



ELECTRICAL LAYOUT NOTES:

U BLOCK AND USE FOR ALL CELNG FANS PER PLAN

1) VANITY LIGHTS TO BE SET • 90° AFF. (TYP)

3) ADDITIONAL EXTERIOR CUILETO REGULAD BY CODE TO BE LOCATED BY ELECTRICIAN

4) FLACE SUTICIES 8" (MN) FROM ROUGH OPENINGA

ELECTRICAL LEGEND

- O YOUTLET
- ♦ BOYGHOUTLET
- S TO A SMITCHED ONLY
- ES CF NO Y BASEBOARD CUTLE
- # 4PLEX
- 翻 COUNTER OR FLOOR HOUNTED MOV G
- C: IFATIFRENCY
- → novoulet
- IN V DEDICATED CIRCUIT
- # 70 V DEDICATED CIRCUIT
- (A) RECORT LABORAGE (1990 A' ELC)
- CELING MOUNT LIGHT
- PENDAIT LIGHT
- RECESSED CAN LIGHT
- TYEBALL LYSHI
- ON ELEMENTS
- INDERCABNET LIGHT
- PL HOOD FRHII
- ♦ **BUTCH**
- \$, 3-MAY SUITCH
- 4. 4-MAY BUTCH
- to offer suitch
- CONDUIT FOR COMPONENT LIRE
- EF SPEAKER
- D- DOORBELL CHINE
- № Y SMOKE DETECTOR







RENAISSANCE

RESIDENTIAL DESIGN, INC.
4810 GLENMIST CT. | RALEIGH, NC 27612
(919) 649-4128
WWW.RRDCAROLINA.COM
'The art of transforming your vision into realsy.'

PAISSAICE RESIDENTIAL DESIGN, INC.
RESERVES THE RIGHT TO MAKE
MODIFICATIONS TO FLOOR FLANS,
DWELSIONS, MATERIALS, AND
SPECIFICATIONS WITHOUT NOTICE.
THESE DRAWINGS ARE FOR THE
FURIOSE OF CONVENING AN
ARCHITECTURAL CONCEPT ONLY.

COMMON LAW COOP FRIGHT AND OTHER PROPERTY PICKING IN THESE PLANS. THESE PLANS IN THE SEP PLANS. THESE PLANS AND DRAWNOSS ARE NOT TO BE REPRODUCED, CHANGED, OR COMED BLAIF FORMOR MAYER WITHOUT FIRST OFFICIARION THE EXPRESS WITHOUT FIRST OFFICIARION THE EXPRESS PRITTEN CONSIDERITY OF REPROSECUTED AND THE PLANS AND EXCEPTION OF THE PLANS AND THE PLANS A

J.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEIGH, NC 27605 PHONE (919) 789-9919



TO HOME SER SELBECT TO CHANGE AND UNIVERSITY OF A UNIVERSITY O

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 18, 2017

REV.:

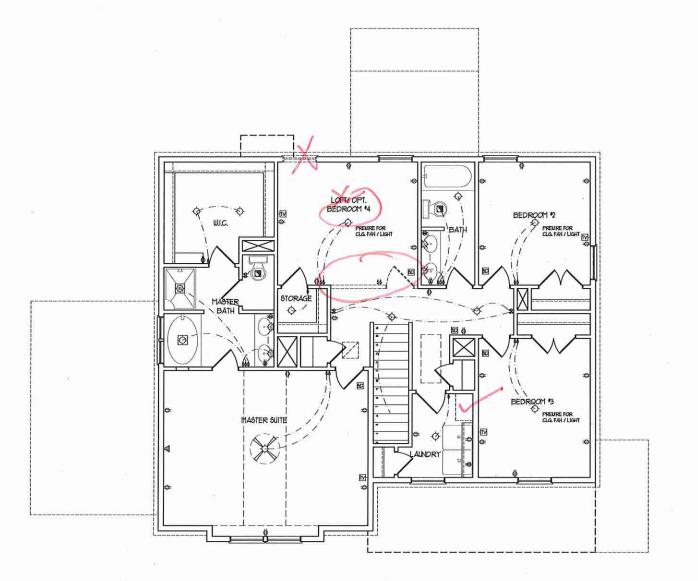
SCALE: 1/4"=1'-0" DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: JES

FIRST FLOOR ELECTRICAL PLAN

E-1



ELECTRICAL LAYOUT NOTES:

U PLOCK AND WRE FOR ALL CELNG FANS PER PLAN

2) VANITY LIGHTS TO BE SET 95° AFF. (TYP)

A) FLACE SUTCHES S" (HINU FROM ROUGH OFFINISS).

ELECTRICAL LEGEND

S IO Y CUTLET

SE TO Y CH OUTLET

S NO Y BUTGLED QUILET

4PLEX

翻 COUNTER OR FLOOR HOUNTED MOV GFI EATHERPROOF

→ 26 V OUTLET

IN Y DEDICATED CROUT

20 V DEDICATED CROUT

(D) SPECIAL PURPOSE (140 V, ETC.)

LIMIT HON'T FRHI

CELLING HOUNT LIGHT

PENDANT LIGHT RECESSED CAN LIGHT

MNI CAN LIGHT

EVERALL LIGHT

TLUCRESCENT LIGHT

HOOD FIRM ♦ BUTCH

\$ 3-WAY BUTTCH

\$4 4-WAY 6WTCH

DIMER BUTCH

△ TELEPHONE

- CONDUIT FOR COMPONENT LIRING

F GPEAKER

D- DOORBELL CHINE

10 V 6HOKE DETECTOR

LMP LOW VOLTAGE PANEL





RENAISSANCE
RESIDENTIAL DESIGN, INC.
4810 GLENMST CT. | TALLEIGH, NO 27612
1919 649-4128
WWW.RENCOROLUN.COM
The act of transforming your vision into really.



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 18, 2017

REV.:

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

DRAWN BY: WG

ENGINEERED BY: WLF REVIEWED BY: JES

SECOND FLOOR ELECTRICAL PLAN

E-2

DOUBLE GARAGE

DOOR OPTION

GARAGE OPTION

(NOT AVAILABLE WITH

OPTIONAL ONE-CAR GARAGE)



FOUNDATION VENTILATION CALCULATION

949 SQ. FT. OF CRAWL SPACE DIVIDED BY 1500 EQUALS 0.6 SQ. FT. OF NET FREE AREA REQUIRED. NOTALL 6 MIL POLY TO COVER ENTIRE CRAWL SPACE. LOCATE VENTS WITHN 3'-0' OF EACH CORNER OF THE BUILDING TO PROVIDE CROSS-VENTILATION.

13/0-MPH WIND ZONE NOTES FOR LESS THAN 3/0' MEAN ROOF HEIGHT:

U BUANEERS SEAL APPLES ORLY TO STRICTURAL COTTO GRITH, BURNEERS SEAL DOES NOT CERTIFF DEPOSIONAL ACCURACY OR AGCHIECTURAL LATOUR NCLLDIS ROOF SYSTEM 10 STRICTURAL DESCRIPTER MORTH CAROL NA RESIDENTIAL CODE, TOP EDITION 1114 SPECIAL COMEDERATION TO CAMPTER 45 (THICK) UND JONES FOR BUT PHILLIDOS 3) BULICRES TO PROVIDE TRANSIA CANACCIONS AS PECULIDED BY CHAPTER AS DIRECTORS AS PECULIDED BY CHAPTER AS ("HIGH WIND ZONES" FOR BO HPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE,

100 EDITION
4) FONDATION ANCHORAGE TO COMPLY
WITH SECTION 4504 OF THE NORTH CAROLIN
RESIDENTIAL CODE, 1002 EDITION
5) MEAN ROOF HEIGHT IS LESS THAN 30

FEET.
6) UALL: CLADDN'S DESIGNED FOR 40.1
PSF (POSITIVE AND NEGATIVE).
1) ROCF CLADDN'S DESIGNED FOR 356
PSF (POSITIVE AND NEGATIVE) FOR ROCF
PTICLES 102 102 MAY DESIGNED FOR POSITICAL PSF (POSITIVE).
AND NEGATIVE) FOR ROCF PTICLES 225/21

8) 1/6" 068 SHEATHING IS REQUIRED ON 8) YUR' O'GO SHEATHING IS REQUIRED ON ALL EXTERIOR MULLS.

9) MULLS 10 DE BRACED IN ACCORDANCE INTHE SECTION ROUGH OF HORSHI
CAROLINA RESIDENTIAL CODE, 109 EDITION IN DERBY INFOLIDET COTE HAVE AND INSLATION YALLES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE KIRCE, 200 EDITION.

100-MPH WIND ZONE NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

DENGNEER'S SEAL APPLIES ONLY TO

9/918H.
19/918LTIRAL DEBIM FER NORTH CAROLINA
RESPONTIAL CODE, 100 EDITICA
19/918TAL 11/9 ACKIOR DOL 15 6 6 9 0C. AVD
LITINI 1-02 FROTI BED OF EACH FLATE, ACKNOR
BOL 15 HATS DEBID A KINHTH OF 11 KITO
HASOLIKY OR CONCERTE

4) EQUIPMOR FEMILI 16 LESS THAN 30 FEET.

5) EQUIPMOR WALLS DESIGNED FOR 100 1°PH

19/918TACKER WALLS DESIGNED FOR 100 1°PH

9) ENTROOR WALLS PERSONED FOR NO 1919
6) WALL CLADING DESIGNED FOR 741 FSF
(FOOTIME AND REGISTRED)
1) ROOF CLADING DESIGNED FOR 741 FSF
(FOOTIME AND REGISTRED)
10 TO AR AND 340 FSF (FOOTIME AND
REGISTRED AND ROOF FINICES DAYS
10 TO AR AND 340 FSF (FOOTIME AND
REGISTRED AND LOST FINICES DAYS
10 TO AR AND 140 FSF
10 THE AND THE STATE OF A LICE OF THE
ACCORDINATE WITH SECTION REGISTRED AND THE
ACCORDINATE WAS THE SECTION REGISTRED AND THE
ACCORDINATE OF ALL STATES FOR FORCE
FOOTIMENT AND THE PROPERTY CORPOR WAYER AND
10 THE P

PERMATION

9) BERGY EFFICIENCY COMPLIANCE AND
NILLATION YALUES OF THE BULDING TO BE IN
ACCORDANCE BITH CHAPPIER IF OF THE NORG,
1002 EDITION.

10) REFER TO NOTES AND DETAIL SHEETS
FOR ADDITIONAL STRUCTURAL INFORMATION.

STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE 12 SPF (UNO), ALL TREATED LUMBER TO BE 12 SYP (UNO.) NSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.

ON THE PLANS,
SQUARES DENOTE POINT LOADS
UNICH REQUIRE SOLID BLOCKING
TO GIRDER OR FOUNDATION.
SHADED PIERS TO BE FILLED SOLID. INSTALL LADDER WIRE # 16" O.C.

TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION



RENAISSANCE

RESIDENTIAL DESIGN INC. 10 GLENMIST CT. | RALEIGH, INC., 10 GLENMIST CT. | RALEIGH, INC 27612 1919 649-4128 WWW.RROCAROLIPA.COM se art of transforming your vision into re alsy

J.S.THOMPSON ENGINEERING, INC 66 WADE AVE. SUITE 104 RALEIGH, NC 27605 PHONE, 1919) 789-9919



INC. H&H HOMES, I TOPSAIL

DATE: OCTOBER 18, 2017

REV.:

SCALE: 1/4"=1'-0" DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: IES

CRAWL FOUNDATION PLAN

S-1

CAD Drawings VST-ENGVH & H. Constructors Tops with Open E, 10-18-17 dwg. 10/25/2017 4.31.18 FM, Whitney Faulinner, 15. Thompson Engineering In

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R6671/0 OF THE 69*PLIFIED WALL BRACING CRITERIA EFFECTIVE SEPTEMBER 1, 26/8.
 CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PARELS" CONTRACTOR IS TO INSTALL TWIS OSB ON ALL EXTERIOR WALLS ATTACHED W SR MAILS SPACED 61 OF MAINS AND EMPORANCE PARELS FOR CONTINUE SEED OF A CONTI O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL IQ (MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS EASTEN OR JUTH 1 1/4" SCREIJS OR 1 5/8" NAII S SPACED 1" OC
- FASTEN GB JUTH 1 M* SCREUS OR 1 5/8* NAILS \$PACED 1* OC.
 ALONG PANEL EDGES AND IN THE FIELD NCLUDING TOP AND
 BOTTOM PLATES.
 BRACED BUALL DESIGN AFFILES IN UND ZONES UP TO 1/8 MFH.
 FOR HIGH WIND ZONES, BRACE WIALLS ARE TO BE CONSTRUCTED
 IN ACCORDANCE WITH CHAPTER 45 OF THE KORG, 7/80 EDITION.
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
 WILL IN EXPRANTER.

RECTANGLE A SIDE IA (FRONT LOAD)
METHOD: CS-USP/PF/GB
TOTAL REQUIRED LENGTH: IS,I' TOTAL PROVIDED LENGTH: 216' SIDE ZA
METHOD: C5-USP
METHOD: C5-USP
TOTAL REQUIRED LENGTH: BJ'
TOTAL PROVIDED LENGTH: 2066'
TOTAL PROVIDED LENGTH: 2066'
TOTAL PROVIDED LENGTH: 2

SIDE 3A (SIDE LOAD) METHOD: CS-USP/FF/GB TOTAL REQUIRED LENGTH: 1155' TOTAL PROVIDED LENGTH: 20.12'

SIDE IB METHODI CS-USP/FF TOTAL REQUIRED LENGTH 456 TOTAL PROVIDED LENGTH: 6"

RECTANGLE B

SIDE 3B METHOD: C9-USP TOTAL REQUIRED LENGTH: 3.19'
TOTAL PROVIDED LENGTH: 558'
SIDE 48/3A CUMULATIVE

SIDE 4A SIDE 4B/3A CUMULATIVE
METHOD: C5-USP METHOD: C5-USP/GB
TOTAL REQUIRED LENGTH: 1155' TOTAL REQUIRED LENGTH: 20:14' TOTAL PROVIDED LENGTH: 35' TOTAL PROVIDED LENGTH: 3145'

> NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO), 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO), ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 X 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

LINTEL SCHEDULE FOR

L 6 x 4 x 5/16 LLV

LENGTH (FT.) SIZE OF LINTEL L 3 V2 x 3 V2 x V4 UP TO 4 FT. 4-8 L 5 x 3 1/2 x 5/16 LLV

<u>LINIEL SCHEDULE APPLIES TO ALL</u> LINIEL SCHEDULE APPLIES TO ALL OPENIAS & DI BRICK VENERIC (IMO). SEE ARCH DUISE, FOR SIZE AND LOCATION OF OFENIAS.

(ILLY) * LONG LEG VERTICAL.
LEYGTH * CLEAR OPENIAS
EPIGED ALL AYGLE IRONS MIN 4* EACH
HIDE INTO LENSEED TO REPOYUNCE BEAGNICE.

8 AND GREATER

SIDE INTO VENEER TO PROVIDE BEARING FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W 1/2" LAG SCREUS # 12" O.C.

STAGGERED.

FOR ALL BRICK SUPPORT * ROOF LINES, FASTEN A 5" x 3 1/2" x 5/6" STEEL AVGLE TO 2 x 1/2 BLOCKINS INSTALLED BETWEEN BUILD STAGES OF CREWS 12" OC. STAGGERED AND IN ACCORDANCE TO SECTION R103.122 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012

PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.



STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 7 SFF (UNO). ALL TREATED LUMBER TO BE 12 SYP (UNO.) ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- PROVIDE EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLAN.
 ALL BEAMS ARE TO BE SUPPORTED WITH (2)
- JACK STUDS EA END (LINO), WINDOW AND DOOR HEADERS TO BE SUPPORTED W (1) JACK STUD AND (1) KING STUD EA END (LINO.) FOR HIGH WIND ZONES, PROVIDE (2) 2 x 6 KING
- STUDS EA SIDE OF EXTERIOR WINDOW AND DOOR HEADERS W/ CLEAR OPENINGS LESS THAN 6'-0" AND (3) 2 x 6 KING STUDS EA SIDE OF HEADERS W CLEAR OFENINGS GREATER THAN 6'-0". FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
- TO BE SHEATHED WITH TIGE OBB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 84 NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN
- FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2)
 ROUS OF 8d NAILS STAGGERED AT 3" O.C.
 PANELS SHALL EXTEND 12" BEYOND
 CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR
- PULL DEPTH.
 SQUARES DENOTE POINT LOADS WHICH
 REQUIRE SOLID BLOCKING TO GIRDER OR
 FOUNDATION. ALL SQUARES TO BE (2) STUDS
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO BLABS (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
- FOR FIBERGLASS, ALUMINIM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREUS, FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS U/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING
- COLUMN
 REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

NOTE: DSP DENOTES DOUBLE STUD POCKET



RENAISSANCE

BESIDENTIAL DESIGN, INC.

J.S.THOMPSON ENGINEERING, INC 606 WADE AVE., SUITE 100 RALEIGH, NC 27(60)



ž H&H HOMES, TOPSAIL

DATE: OCTOBER 18, 2017

REV.:

SCALE: 1/4'=1'0"

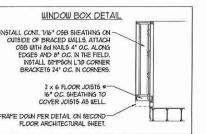
DRAWN BY: WG

ENGINEERED BY: WIF REVIEWED BY: IES

SECOND FLOOR FRAMING PLAN

S-2

subSIVATICAD DrawingsVST-UNGVI & H ConstructionsTopswiftSpeak_10-18-17 day 10/25/2017 4 31.19 FM, Whitney Facilities 15. Thompson Engineering Inc.



NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 X 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN FER SECTION R60010 OF THE
- BRACED WALL DESKIN FER SECTION REWIZE OF THE SMILL BRACING CRITERIA EFFECTIVE SEPTEMBER (1978).
 CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PAWELS" CONTRACTOR IS TO NOTALL TWE" OSB ON ALL EXTERIOR WALLS ATTACHED W" 84 MAILS SPACED 6" OC. ALONG PANEL EDGES AND 12" OC. NITHE FIELD.
 CB REFERS TO "GYPEM" WALL BOARD WERE NOTED ON THE PLANS.
 LOY (MIN) GYPEM" WALL BOARD WERE NOTED ON THE PLANS.
 EASTEN (AB WITH LIM" SEPTIL OR IS TAN AUM IS SPACED 1" OC.
- V2' (MIN) GYPSJM WALL BOJARD WEIER NOTED ON THE PLANS, FASTEN GB WITH 1 I/4' SCREWS OR 1 5/8' NAILS SPACED T' O.C. ALONS PAKEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES. BRACED WALL DESIGN APPLIES IN WIND ZONES UP TO 100 MPH FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDINCE WITH CHAPTER 45 OF THE NORC, 2012 EDITION SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL NEORMATION.

NOTE:

- 1 PER SECTION R602/032 OF THE 20/2 NCRC, 20/2 EDITION, THE AYOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AYOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
 2. SHEATH ALL EXTERIOR WALLS WITH YUS 'OSB SHEATH NG ATTACHED WITH 3d NAILS AT 6" OC. ALONG PANEL EDGES AND
- 12" OC. IN THE FIELD.

LINTEL SCHEDULE FOR BRICKNATURAL STONE SUPPORT			
LENGTH (FT.)	SIZE OF LINTEL		
UP TO 4 FT.	L 3 1/2 x 3 1/2 x 1/4		
4-8	L 5 x 3 1/2 x 5/16 LLV		
8 AND GREATER	L 6 x 4 x 5/16 LLV		

- NOTES: L LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK YENEER (UNO), SEE ARCH DUGS, FOR SIZE AND LOCATION OF

- OPENIAS.

 (ILY) + LOYS LEG VERTICAL
 LEIGTH + CLEAR OFENIAS
 EYBEED ALL ANGLE IRCNS MIN 4* EACH
 SIDE NIO VENER TO PROVIDE BEARNS.
 FOR ALL HEADLESS 9* 6* AND GREATER
 N LEIGHT ATTACH STEEL ANGLE TO
 HEADER W 1/3* LAG SCREWS 12* O.C. STAGGERED. FOR ALL BRICK SUPPORT # ROOF LINES,
- FOR ALL BRICK SUPPORT 9 ROOF LINES, FASTEN A 5" × 3 12" × 5" 6", 5" STELL AVISE TO 2 × 10" BLOCKING NSTALLED BETWEEN WILL'S TUDE SCREENS 12" OC. 5143GERED AND IN ACCORDANCE TO SECTION PRO3.112 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012 ENTITION.
- EDITION.
 PRECAST REINFORCED CONCRETE
 LNTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12 SFF (UNO). ALL LOAD BEARING HEADERS TO BE (2) 2
 x 6 (INO).
 ALL BEAMS ARE TO BE SUPPORTED WITH
 (2) JACK STUDS EA END (UNO), WINDOW
- AND DOOR HEADERS TO BE SUPPORTED MU (I) JACK STUD AND (I) KING STUD EA END (UNO) FOR HIGH WIND ZONES, PROVIDE (2) 2 x 6 KING STUDS EA SIDE OF EXTERIOR WINDOW
- KING SILDS EA SIDE OF EXTENIOR WINDOW AND DOOR HEADERS W. CLEAR OFENNINGS LESS THAN 6-10° AND (3) 2 x 6 KING STUDS EA SIDE OF HEADERS W. CLEAR OFENNING GREATER THAN 6-10°. SOLIAMES DEPOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OF THE SILDS SOLID BLOCKING TO GIRDER OR CONTROL OR CONTROL
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION





RENAISSANCE

RESIDENTIAL DESIGN INC.

J.S.THOMPSON ENGINEERING, INC ICC WADE AVE., SUITE IN RALEICH, NC 27(05 PHONE, (1919) 789-9919



INC. H&H HOMES, I TOPSAIL

DATE: OCTOBER 18, 2017

REV.

SCALE: 1/4"=1'0"

DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: JES

ATTIC FLOOR FRAMING PLAN

S-3

ATTIC VENT CALCULATION:

1630 SQ FT, OF ATTIC DIVIDED BY 150 REQUIRES 10.9 SQ. FT. OF NET FREE YENTILATING AREA (MIN.).

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE '2'
 SPF (INO).
 CIRCLES DENOTE (3) 2 × 4 POSTS
 FOR ROOF SUPPORT.
 S. FRAME DORMER WALLS ON TOP
 OF DOUBLE OR TRIPLE RAFTERS.
 HIP SPLICES ARE TO DE SPACED
 A MN. OF 8'-9'. FASTEN MEMBERS
 WITH THREE ROUS OF UZH NALLS &
 16" OC. (TYP)
 STICK REAME (OVER REAMED)
- STICK FRAME OVER-FRAMED 5, STICK FRAME OVER-FRAMED ROOF SECTIONS WI 2 AS PIRODES, 2 x 6 RAFTERS 9 IS* OC. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES. 6. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON WEBS HITH SIMPSON WE TIES 9 32* OC. MAX PASS HIRRICANE TIES THROUGH NOTCH IN ROOF SUBSTANCE AND WAS FASTED IN TO
- THE THROUGH NOTCH IN ROOF SHEATHING, EACH RAFTER IS TO BE FASTENED TO THE FLAT YALLEY WITH A MIN OF (6) IZO TOE NAILS. REFER TO NOTES AND DETAIL
- SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

BRICK SUPPORT NOTE:

- FOR BRICK SUPPORT & ROOF LINES, BOLT FOR ERICK SUPPORT & PROOF LINES, BOLT 45 °x 3 10° x 5/6" 5 TEEL AKILE TO 2 x 10° BLOCKING INSTALLED BETWEEN WALL 5TUDG W 10° LAG SCREED 81° O.C. 5TASGERED AND IN ACCORDANCE WITH SECTION REGIONATE OF HORTH CAROLINA RESIDENTIAL CODE, 2012 EDITION
- CAROLINA REGILERINAL CODE, 2012
 EDITION

 LIHERE ROOF SLOPES EXCEED 1:12, NSTALL
 3" x 3" x 1/4" STEEL PLAIE 510PS AT 24"

 OC. PER SECTION R103.121 OF THE NORTH
 CAROLINA RESIDENTIAL CODE, 2012
 EDITION







RENAISSANCE

RESIDENTIAL DESIGN, INC.
4810 GLENMIST CT. | RALEIGH, NC 27612
[919] 543-4128
WWW.RRDCAROLINA.COM
The art of transforming your vision into relaty.



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 18, 2017

REV.:

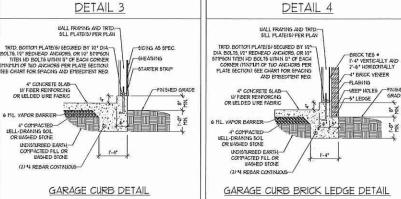
SCALE: 1/4"=1'-0"

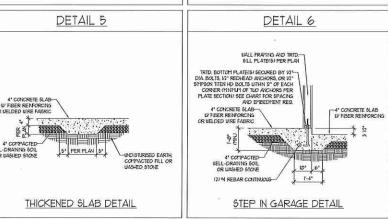
DRAWN BY: WG

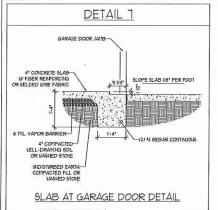
ENGINEERED BY: WLF REVIEWED BY: JES

ROOF PLAN

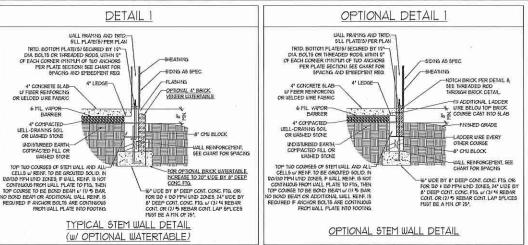
ELEVATION - A S-4

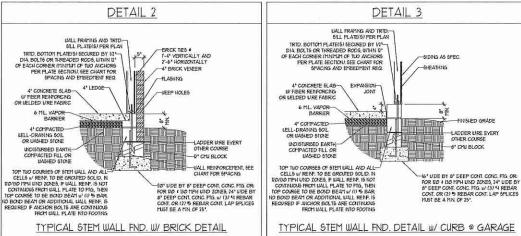


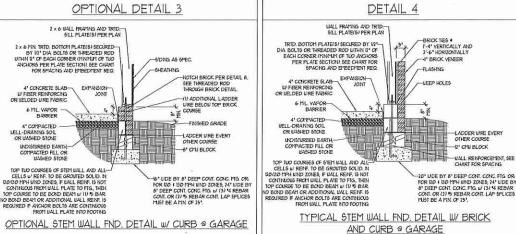


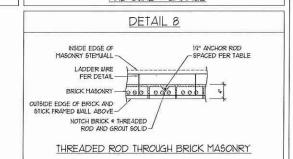


STEMWALL DETAILS









MASONRY STEMWALL SPECIFICATIONS

WALL HEIGHT	MASONRY WALL TYPE				
(FEET)	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMJ	12° CMJ	
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
4	GROUT SOLID	GROUT SOLID u/ 14 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID w/ *4 REBAR # 64" O.C.	
5	GROUT SOLID u/ *4 REBAR # 36" O.C.	NOT APPLICABLE	GROUT SOLID u/ 4 REBAR # 36" O.C.	GROUT SOLID u/ *4 REBAR * 64* O.C.	
6	GROUT SOLID w/ 44 REBAR 9 24° O.C.	NOT APPLICABLE	GROUT SOLID u/ *4 REBAR # 24" O.C.	GROUT SOLID II/ 44 REBAR # 64" O.C.	
AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS				

STRUCTURAL NOTES:

WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
THE MULTIPLE WITHES TOGETHER WITH LADDER WIRE AT 16" OC. VERTICALLY.
CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.

BACKFILL OF CLEAN 51 / 61 WASHED STONE IS ALLOWABLE.

BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) 5. BACKFILL OF WELL DRAINED OR SAND - GRAYEL INKTINES DOLIS (48) FSFFT BELOW GRADE). CLASSIFICATION & GROUP I LOCCORDING TO UNIFIED SOILS CLASSIFICATION \$YSTEM IN ACCORDING WITH TABLE RASSI OF THE 2012 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.
6. FREP 6 LAB FER RESO21 AND ES0621 BASE OF THE 2012 INTERNATIONAL RESIDENTIAL CODE. MINIMAM 24" LAP SPLICE LEWSTH.
1. LOCATE REBAR IN CENTER OF FOUNDATION WALL.
8. WERER REGURED, FILL BLOCK SOLID WITH TYPE "5" MORTAR OR 3000 PSI GROUT, USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5" AND

GREATER

ANCH	OR SPACING AND	EMBEDMENT
WIND ZONE	100 MPH	110 MPH
5PACING	6'-0" O.C. 3'-0" O.C. FOR STRAPS	4'-0" O.C. 2'-0' O.C. FOR STRAPS
EMBEDMENT	11*	15" INTO MASONRY 1" INTO CONCRETE
WIND ZONE	120 MPH	13Ø MPH
5PACING	6'-0" O.C. w/ DBL. SILL PLATE OR 4'-0" O.C. w/ SINGLE SILL PLATE w/ 2" x 2" x 1/8" WASHERS	6'-0" OC. u/ DBL. SILL PLATE OR 4'-0" OC u/ SNGLE SILL PLATE u/ 2" x 2" x V8" WASHERS
EMBEDMENT	15" INTO MASONRY 1" INTO CONCRETE	15" INTO MASONRY 1" INTO CONCRETE

NOTE: HORIZONTAL FOOTING REBAR REQUIRED IN HIGH WIND ZONES ONLY (120 MPH - 130 MPH)

> DATE: AUGUST 14, 2015 SCALE: NTS

FOUNDATION DETAILS D-1



ZO O Z 27605 127605 3 **O** 5 1 KALE FALE NO. CIT O 江Ш So. MADE AVE. PHONE (915

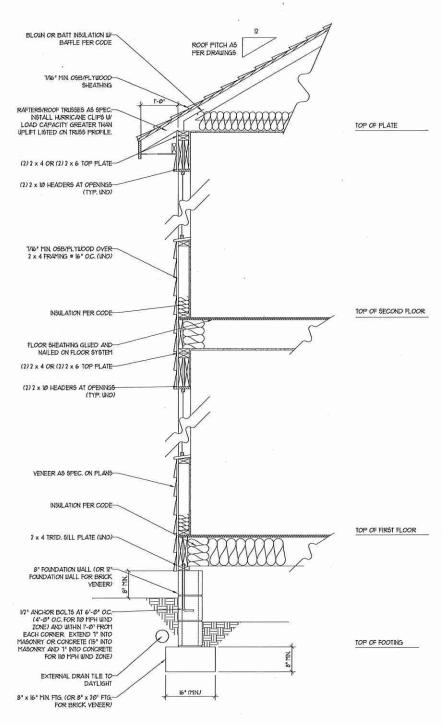
 \mathbb{Z}°

 \rightarrow

XXXXXXXXXXXXXXXX

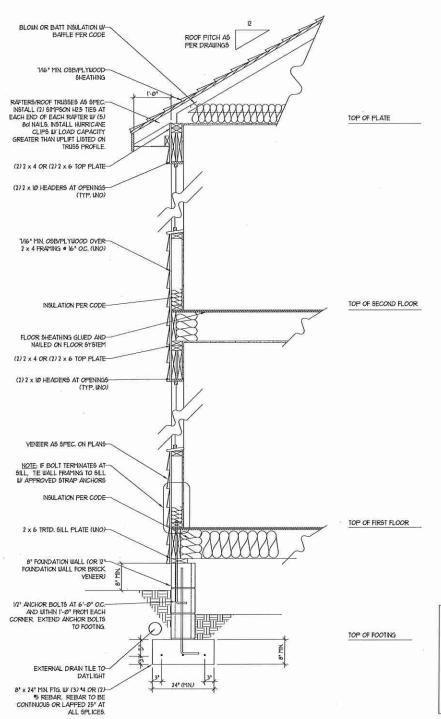
DETAILS FOUNDATION

100/110 MPH WIND ZONE



WALL SECTION W/ CRAWL SPACE W/ STD. SIDING SHOWN (NTS)

120/130 MPH WIND ZONE



WALL SECTION W/ CRAWL SPACE W/ STD. SIDING SHOWN (NTS)

NOT

- BUILDER 16 TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 45 "HIGH WIND ZONES" FOR 10/120/130 MPH WIND) AND CHAPTER 46 (COASTAL AND FLOOD PLAIN CONSTRUCTION 5TANDARDS) OF THE NORTH CAROLINA STATE BUILDING CODE, 20/12 EDITION.



ENGINEERING, INC
606 WADE AVE, SUITE IO RALEICH, NC 27605
HONE, (919) 789-9919
N.C. LICENSE NO.: C.1733

Z °

DETAILS

DATE/JULY 12, 2012

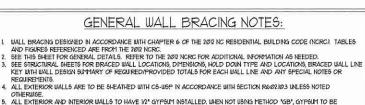
SCALE NTS

DRAWN BY, JST

ENGINEERED BY, JST

REVIEWED BY: MGS

TYPICAL WALL SECTION



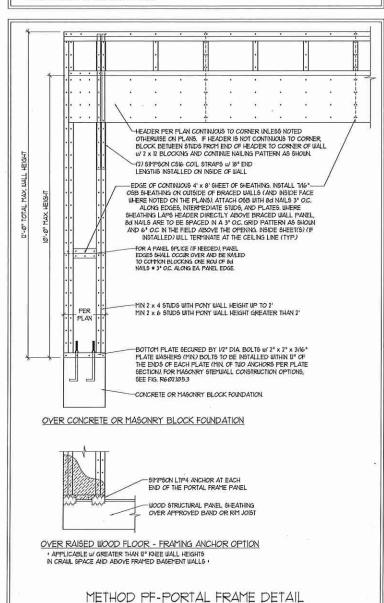
FASTENED PER TABLE R10235. METHOD GB TO BE FASTENED PER TABLE R602101 6. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB

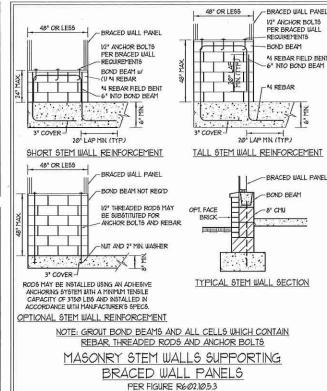
CS-USP REPERS TO THE "CONTINUOUS SHEATHING - UCCOD STRUCTURAL PARELS" MALL BRACCING TECHNOD, THIS "OBSIGNATIONS TO BE NOTALLED ON ALL EXPERIENCE MALLS ATTACHED US OF OCCUPANT TECHNOD, THIS "DOWN THE FIELD CHINO."

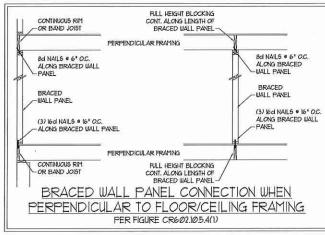
PIANTERN NAULS SPACED 6" OC. ALCKIS PAVILL EDGES AND 12" OC. IN THE FIELD CHINO."

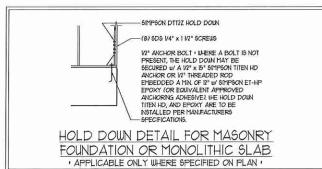
BRETERS TO THE "GYPSIA" DOARD" MALL BRACCING HERDOD, 12" (TIND) GYPSIAM MALL BOARD 15 TO BE NOTALLED ON BOTH SIDES OF THE BRACED MALL PARCHES THOOD, 12" (TIND) GYPSIAM MALL BOARD 15 TO BE NOTALLED ON BOTH SIDES OF THE BRACED MALL PASTEDED WITH 114" SCREUS OR 15/8" NAULS SPACED 1" OC. ALCNG PAVILL EDGES NCLUDIAS TOP AND BOTTOM HATES AND INTERM'EDIATE SUPPORTS (MUND). YERRY ALL PASTEDER OPTICIOS FOR 12" AND 5/8" GYPSIAM PRIOR TO CONSTRUCTION. FOR INTERM'EDIATE OPTICNS SEE TABLE R10235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R6023(I). EXTERIOR GB TO BE INSTALLED VERTICALLY.

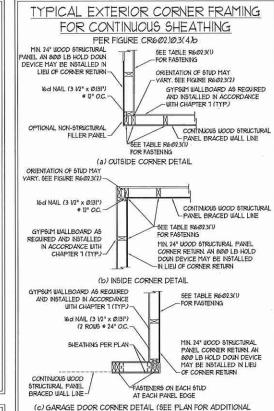
REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602, 103, METHOD C5-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FE CONTRIBUTES IS INVESTIGATED ACTUAL LENGTH.



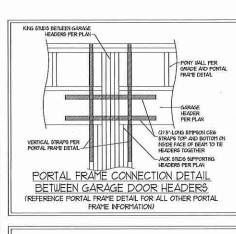


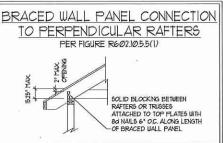


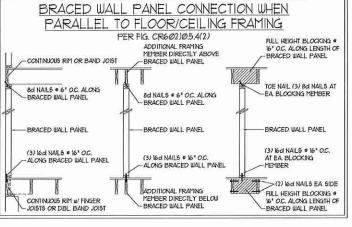


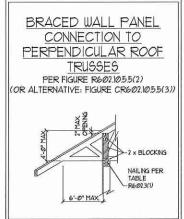


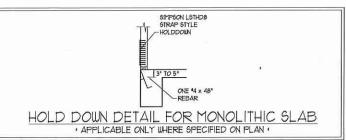
STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)













YAYAAYAYAYAYAY

ZO

0

ഗ

0 0

Z

O

S. TH

DETAILS

AND

NOTES /

BRACING

DATE: MAY 17, 2017 SCALE: NONE DRAWN BY, IST OINFERED BY, 15T REVIEWED BY: IES

> BRACED WALL NOTES AND DETAILS AND PF DETAIL

GENERAL NOTES

- L BYSINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENSINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT NOLUDING ROCF. ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR DR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 20/2 EDITION. PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROXIRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2012 EDITION (R3014 R3011)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (I
ATTIC WITH LIMITED STORAGE	20	10	L/240
ATTIC WITHOUT STORAGE	kØ	10	L/36Ø
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/360
PASSENGER VEHICLE GARAGE	50	lø	L/36Ø
ROOMS OTHER THAN SLEEPING ROO	40	10	L/360
SLEEPING ROOMS	30	10	L/36Ø
STAIRS	40	IP.	L/360
WIND LOAD	(BASED ON FIGURE R3@12(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD
- 4. FOR 90 AND 100 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.16 OF THE NCRC, 2012 EDITION. FOR 100 MPH, 120 MPH, AND 130 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NORG, 2012 EDITION
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2012

FOOTING AND FOUNDATION NOTES

- L FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIFICIER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL, THE FILL MATERIAL, SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL, THE FILL SHALL BE COTPACTED TO ASSINE WINFORM SUPPORT OF THE SLAB, AND EXCEPT VIEWER AFFROVED, THE HID PEPTHS SHALL NOT EXCEPT 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE FLACED. A BASE CONSIST IS NOT RECURRED WHERE A CONCRETE SLAB IS INSTITUTED ON SELL-PLANCED. (MIXTURE SOILS) CLASSFICATION SYSTEM IN ACCORDING TO THE WHITED SOIL CLASSFICATION SYSTEM IN ACCORDING TO THE WORD, 2012 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE \$LAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - I' DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R4092 OF THE NCRC, 2012 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A6/5 GRADE 6/0. WELDED WIRE FABRIC TO BE ASTM A8/5. MANTAIN A MINIMAT CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTBASS AND 1/12" IN SLASS. FOOR POUNDED CONCRETE WALLS, CONCRETE OVER FOR REINFORCING STEEL PREASURED THE MEANING THE SIDDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL PEASURED FROM THE CUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL PEASURED FROM THE CUTSIDE FACE OF THE WALL SHALL NOT BE LESS. THAN I 1/2" FOR 15 BARS OR SMALLER, AND NOT LESS THAN 2" FOR 16 BARS OR LARGER
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C210.
- 6. THE UNSUPPORTED HEIGHT OF MASCHRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN THESE THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED FIELS, PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASCHRY.
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R464 OF THE NCRC, 70'DE EDITION OR IN ACCORDANCE WITH ACT 318, ACT 327, NCTA TROBE-A OR ACE \$30'ASCE \$7115 402. MASORRY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE R4041/KI), R4041/K3), OR R4041/K3), OR R4041/K4), OF THE NCRC, 20'DE EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE R4041/K1), OF THE NCRC, 20'DE EDITION. STEP CONCRETE FOUNDATION WALLS AT 16" OC. WHERE GRADE FERMITS (INO).

FRAMING NOTES

- L ALL FRAMMS LUMBER SHALL BE 12 SPF MINIMUM (Fb = 815 PS), Fv = 315 PS), E = 16,00000 PS)) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 PS), Fv =115 PS), E = 16,00000 PS)) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LIMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. FD. = 2600 PSI, FV = 285 PSI, E = 1900000 PSI.
 LAMINATED STRAND LIMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. FD = 2325 PSI, FV = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LIMBER (PSL) JIP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. Fo. : 2500 PSL F. : 18000000 PSL PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FC = 2900 FSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND UT SHAPES: ASTM A992 ASTM A36 CHANNELS AND ANGLES: PLATES AND BARS: ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B, TYPE E OR 5

STEEL BEA'S SHALL BE SUPPORTED AT EACH END WITH A MINIMAN BEARING LENGTH OF 3 1/2" AND RULL FLAYSE WIDTH (INO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLAYSE TO EACH SUPPORT AS

FOLLOUS (UNO):

A WOOD FRAMING (2) 1/2" DIA x 4" LONG LAG SCREUS (2) 1/2" DIA x 4" WEDGE ANCHORS (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (RULLY GROUTED)

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM of (2) ROUS OF SELF TAPPING SCREWS . (6) O.C., OR (2) ROUS OF IZ' DIAMETER

BOLTS & 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROWS OF 9/16" DIAMETER

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION, SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R592.5(1) AND R592.5(2) OF THE NCRC, 29/12 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (I) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO).
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I VZ* MINIMUM BEARING (UND). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO), BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/01) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE CURRENT NORTH CAROLINA RESIDENTIAL CODE WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R60230.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK YENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT. FOR ALL HEADERS 8'-Ø" AND GREATER IN LENGTH BOLT A 6" x 4" x 5//6" STEEL AVGLE TO HEADER WITH 1/2" LAG SCREUS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO 2 x 10 BLOCKING INSTALLED BETWEEN WALL STUDS WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103,722 OF THE NORG, 2012 EDITION.
- 13. FOR STICK FRAMED ROOFS, CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT, HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROUS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" OC. AND FLAT 2 x 10 VALLEYS (UNO).
- 5. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON HIS OR LITS/Z UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, ONE IS SECTION OF SIMPSON COIS COIL STRAMPING WITH (8) BUT HOS NAILS AT EACH END MAY BE USED IN LIEU OF EACH TUIST STRAM IF DESIRED. FOR MASONRY OR COYCRETE FOUNDATION USE SIMPSON POST BASE



0 Z

NOTES STRUCTURAL STANDARD

DATE: AUGUST 27, 2013

DRAWN BY: JES INFERED BY- IES

REVIEWED BY: 15T

STRUCTURAL NOTES

