



RENAISSANCE

RESIDENTIAL DESIGN, INC.
4810 GLENMIST CT. | RALEIGH, NC 27612
(919) 419-4128
WWW.RRDCAROLINA.COM
The Art of transforming your vision into realty.



H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017 REV.:

SCALE: AS NOTED DRAWN BY: WG

ENGINEERED BY: WFB

REVIEWED BY: JES

B - ELEVATION OPTIONS

A-2.1



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 & 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 = 24" O.C. (UNO).

2x6 WALL

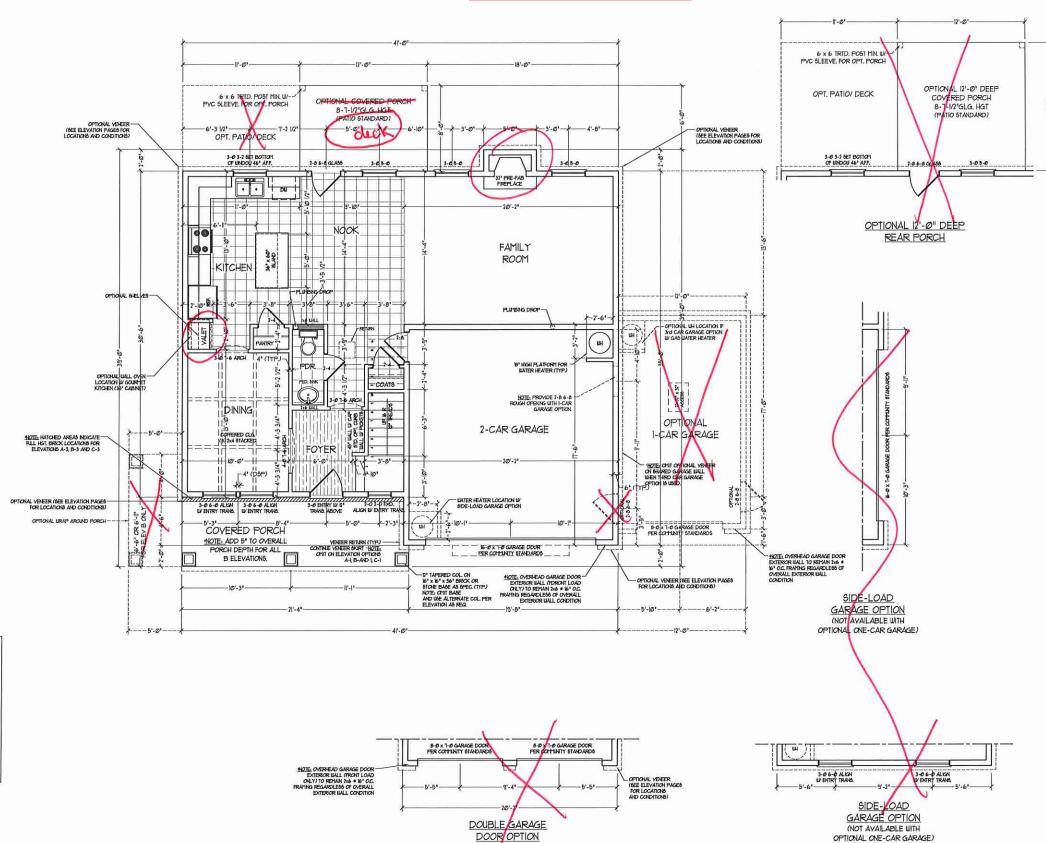
· SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION

SQUARE FOOTAGE

lst FLOOR: 949 SQ. FT. 1351 SQ FT 2nd FLOOR: TOTAL: 2300 SQ. FT. FRONT PORCH: 137 5Q FT. STD. REAR PATIO: 96 SQ. FT. 401 SQ. FT. GARAGE:

SQUARE FOOTAGE (OPTIONS)

FIRST FLOOR (BRICK): 999 SQ. FT. SECOND FLOOR (BRICK): 1405 SQ. FT. TOTAL (BRICK): 2404 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.





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H&H HOMES, INC. TOPSAIL DRIVE RIGHT

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

ENGINEERED BY: WFB REVIEWED BY: JES

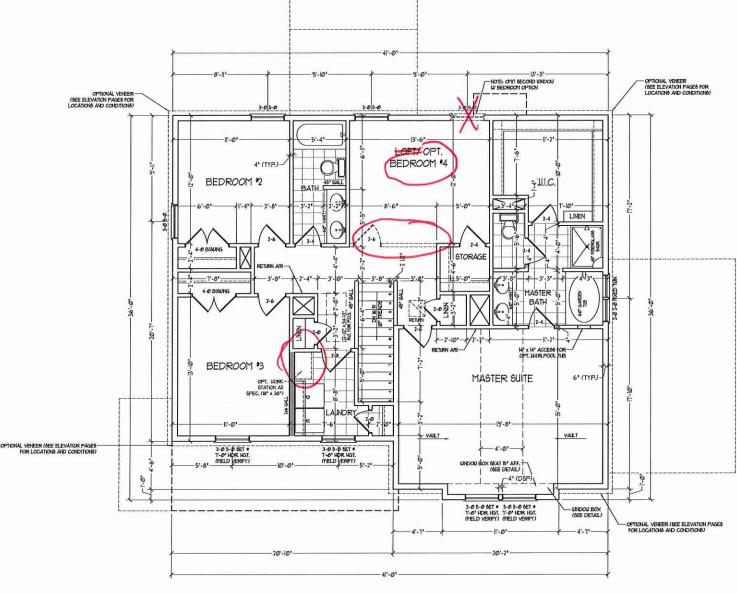
FIRST FLOOR PLAN

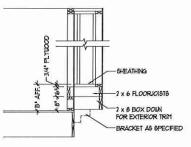
A-4

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 9 16" O.C. (UNO), 2 x 4 9 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





WINDOW BOX DETAIL 6CALE NTG



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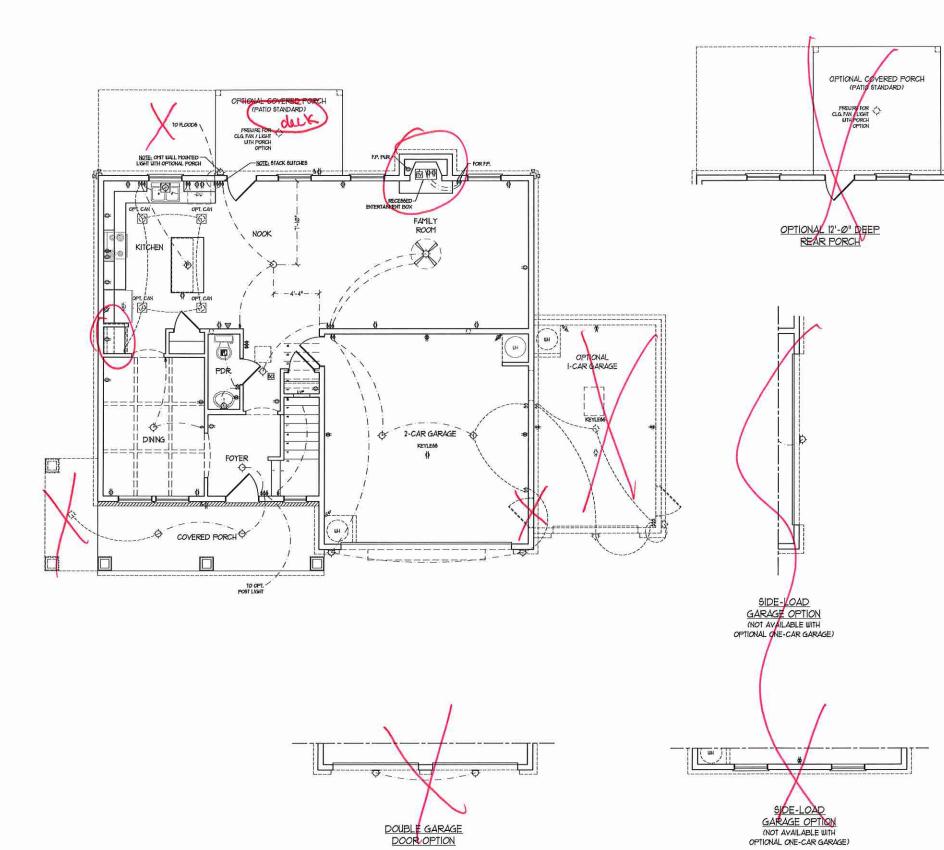
SCALE: 1/4"=1'-0" DRAWN BY: WG

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REVIEWED BY: JES

SECOND FLOOR PLAN

A-5





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H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017

REV.: SCALE: 1/4"=1"0"

DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: JES

FIRST FLOOR ELECTRICAL PLAN

E-1

ELECTRICAL LAYOUT NOTES:

ADDITIONAL EXTERIOR OUTLETS
 REGURED BY CODE TO BE
 LOCATED BY ELECTRICAN.

A) FLACE SUITCHES S' (HIN) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND

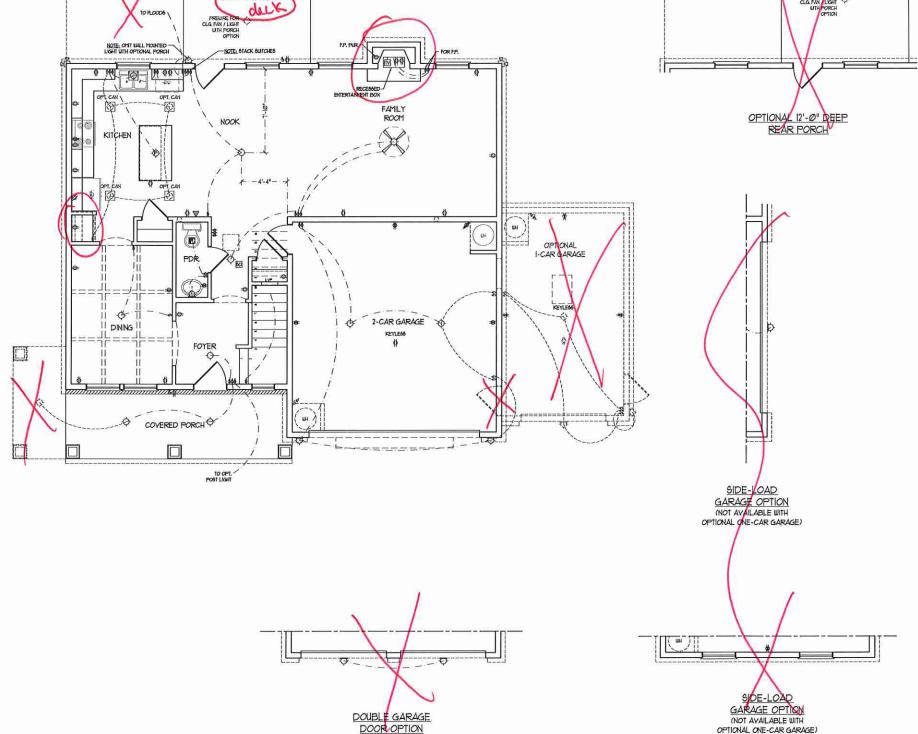
- DY OUTLET
- # TO Y GH CUTLET
- S TO Y SUTCHED CUTLET TO TO Y BASEBOARD OUTLET
- # 4-PLEX
- ES CONTER OR FLOOR HOUNTED
- 醫 COUNTER OR H.OOR HOUNTED HOV G
- E LEATHERPROOF
- P 220 Y CUTLET
- # 16 Y DEDICATED CREOUT
- # 200 V DEDICATED CIRCUIT
- OH SPECIAL PURPOSE (240 V, ETC.) THE WILL HOW! LIGHT
- O CELNS HOUNT LIGHT
- PENDANT LIGHT
- RECESSED CAN LIGHT
- MN CAN LIGHT
- EXERNIT INNI

FLUORESCENT LIGHT - UNDERCABNET LIGHT

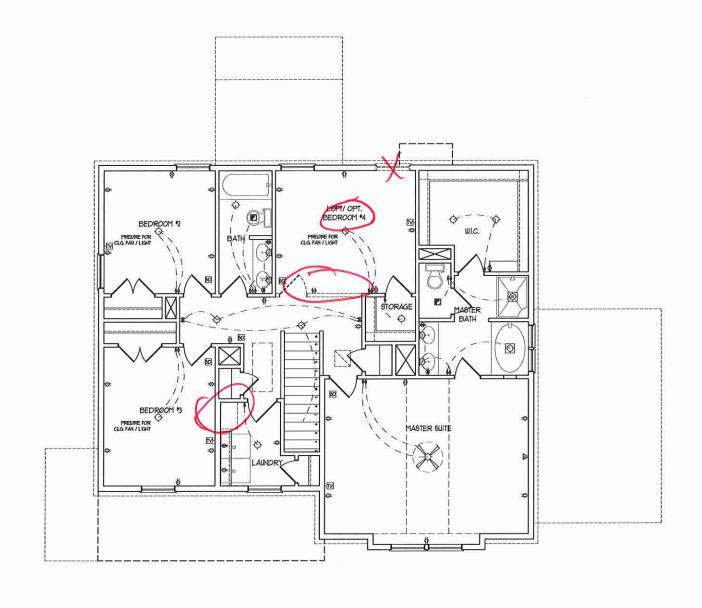
HE FLOOD FIGHT

- **♦ SATCH**
- , 3-MAY BUTTCH
- 6. 4-WAY SUITCH to omer suich
- △ TELEPHONE
- M- TY CONECTION (CALDUIT FOR COMPONENT W
- EF OPEAKER
- D- DOORBELL CHINE
- IND Y BYOKE DETECTOR EXHAUST FAN
- LOW YOUTAGE PAVEL











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SCALE: 1/4°=1'-0°

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ENGINEERED BY: WFB

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SECOND FLOOR ELECTRICAL PLAN

E-2

FOUNDATION VENTILATION CALCULATION

949 SQ FT, OF CRAILL SPACE DIVIDED BY 1500 EQUALS 06 SQ FT, OF NET FREE AREA REQUIRED. INSTALL 6 MIL POLY TO COVER ENTIRE CRAILL SPACE. LOCATE VENTS WITHIN 3'-0" OF EACH CORNER OF THE BUILDING TO PROVIDE CROSS-VENTILATION

15/0 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- DISABERS SEAL APPLES ONLY TO STRUCTURAL COMPONENTS, ENGINEER
- STRUCTURAL COPPORATIO BUSINEERS BEAL DOES NOT CERTEY DIPPOSIONAL ACCIRACT OR ARCHITECTURAL LAYOUT NCLUDN'S ROOF SYSTEM STRUCTURAL DESIGN FER NORTH CARCINA RESIDENTIAL CODE 20% EDITION UNIT BEFOLAL CANSIDERATION TO CHAPTER 45 (*NICH UND ZOLES! FOR BO HEY LUDOS).
- CHAPTER 49 (*HCH UND JOZEEP FOR DO HPH UDDO!

 BULDER 18 TO FROMDE FRANKS
 CONNECTIONS AS REQUIRED BY CHAPTER
 40 (*HCH UND JOZEEP FOR BO HPH
 UNDO) OF THE NORTHI CARCULA
 RESDERIUM, CODE, 1008 EDITION
 REDDORIUM CODE, 1008 EDITION
 REDDORIUM AND REDDORIUM
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 REDDORIUM CODE, 1008 EDITION
 REDDORIUM CODE, 1008 EDITION
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 RESTRUMMU CODE, 1008 EDITION

- EECTION 4004 OF THE MORTH CAROLINA SENDERHIAL COOR, JOBS BETTON THE RESOLUTION COOR, JOBS BETTON THE REAL THE LEAST THAN 30 FEET, AND -31 FEEF (IV. DOCATE POSITIVE / BEGAINE FROM COOR, JOBS BETTON COOR, JOBS BE

- UTH SECTION REPOILS OF THE NORTH
 CAROLINA RESIDENTIAL CODE, 2006
 EDITION AND AS NOTED ON FLANS.
 DERGY EFFICIENCY COMPLIANCE AND
 NOLLATION VALUES OF THE BULDING TO
 BE IN ACCORDINACE UTH GHAPTER IT OF
 THE NORC, 2008 EDITION.

DØ MFH ULTIMATE DESKA WIND SFEED NOTES FOR LESS THAN 30" MEAN ROOF HEIGHT:

- 30' MEAN ROOF LEIGHT.

 BIXERIYA BEAL APPL BO OLY 10

 BIXERIYA COPPORTIS BEHNERY BEAL

 DOES NOT CERTIFY OPENSOANA.

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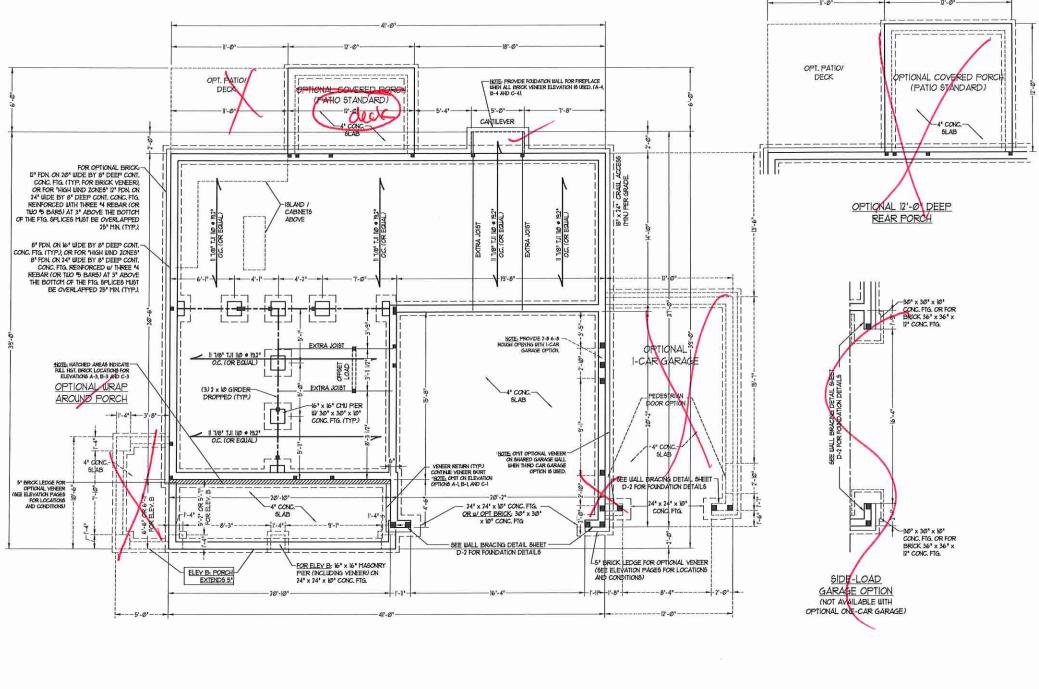
 AND SYSTEM STRUCTURAL SYSTEM

 AND SYSTEM

 A

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 17 5FF (UNO), ALL TREATED LUMBER TO BE 7 SYP (UNO)
- NSTALL AN EXTRA OR DOUBLE . NSTALL AN EXTRA OR POUBLE
 JOIST UNDER WALLS PARALLEL
 TO FLOOR JOISTS WHERE NOTED
 ON THE FLANS.
 SQUARES DENOTE POINT LOADS
 WHICH REQUIRE SOLID BLOCKING
- TO GIRDER OR FOUNDATION. SHADED PIERS TO BE FILLED
- NSTALL LADDER WIRE . 16' O.C.
- . NSTALL LADDER WIFE * 12" OF TO SECURE MILTIPLE WITHE FOUNDATION WALLS TOGETHER REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION





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REMISSION OF RESIDENTIAL DESIGN, NO HERBOS ENGINEERS OF HERBOS HAND HERBOS HAND HERBOS HAND HERBOS HERBOS HAND HORBOS HAND

J.S.THOMPSON ENGINEERING, INC 666 WADE AVE., SUITE 104 RALEIGH, NC 27665 PHONE, 6/19 78/99/19 FAX, 6/19/19/89/9/1 N.C. LICENSE NO., C.1733



H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017 REV.:

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

DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: JES CRAWL

FOUNDATION PLAN S-1

24" x 24" x 10" CONC, FTG. -30" x 36" x 10" L1-3" SIDE-LOAD -201-20 GARAGE OPTION DOUBLE GARAGE (NOT AVAILABLE WITH DOOR OPTION

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R60230 OF THE NCRC 2010 EDITION CS-WSP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PAYELS" CONTRACTOR IS TO INSTALL TAIS" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12° O.C. IN THE FIELD.
- O.C. ALCNG PANEL EDGES AND IN O.C. IN THE FIELD.

 'SE REFERS TO "GYPSHI BOARD" CONTRACTOR IS TO INSTALL

 IN" (ININ) GYPSHI WALL BOARD WHERE NOTED ON THE PLANS.

 FASTEN GB WITH I IV" SCREWED OR I BAN" NAILS SPACED IN O.C.

 ALCNG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND

 BOTTOM PLATES.

 BRACED WALL DESIGN APPLIED IN WAD ZONES UP TO IS MITH,

 BRACED WALL DESIGN APPLIED IN WAD ZONES UP TO IS MITH.
- FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2019 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

BRACED WALL DESIGN

RECTANGLE A SIDE IA (FRONT LOAD)
METHOD: CS-WSP/FF/GB
TOTAL REQUIRED LENGTH: ISJ'
TOTAL PROVIDED LENGTH: 216'

SIDE 2A BIJE: 7A
WETHOD: C5-USP
TOTAL REQUIRED LENGTH: 15.1'
TOTAL PROVIDED LENGTH: 2066'
TOTAL PROVIDED LENGTH: 2066'
TOTAL PROVIDED LENGTH: 12.1' SIDE 3A (SIDE LOAD) METHOD: CS-WSP/FF/GB TOTAL REQUIRED LENGTH: 1155"

SIDE 4A METHOD: CS-USP METHOD: C5-USP
TOTAL REQUIRED LENGTH: 1155'
TOTAL PROVIDED LENGTH: 35'
TOTAL PROVIDED LENGTH: 345'

SIDE ID
PETHOD: C5-USP/PF
TOTAL REQUIRED LENGTH: 456'
TOTAL PROVIDED LENGTH: 6' SIDE 2B SIDE 3B METHOD: CS-USF

RECTANGLE B

TOTAL REQUIRED LENGTH: 319'
TOTAL PROVIDED LENGTH: 1558'
SIDE 4B/3A CUMULATIVE

TABLE R600.75
MINIMUM NUMBER OF FILLL HEIGHT STUDS
AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER BPAN (FEET)	MAXIMIM 6TUD SPACING (INCHES) (PER TABLE R6013/5)	
	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
ים	5	3
141		

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SFF 12 (UNO). ALL TREATED LUMBER TO BE SYP 12 (UNO.) ALL LOAD BEARNG HEADERS TO BE (2) 2 x 6
- ALL LOAD BEARINA HEADERS TO DE (17) X 6 (NO).

 NSTALL AN EXTRA JOIST INDER WALLS PARALLEL TO FLOOR JOISTS WERE NOTED ON THE FLANS.

 WINDOW AND DOOR HEADERS TO DE SUPPORTED IN (1) JACK STILD EA END (INO).
 SEE TABLE RE#2.15 FOR ADDITIONAL KING STILD
- SEE TABLE REWITS FOR ADDITIONAL KING STUD REQUIREPENTS.

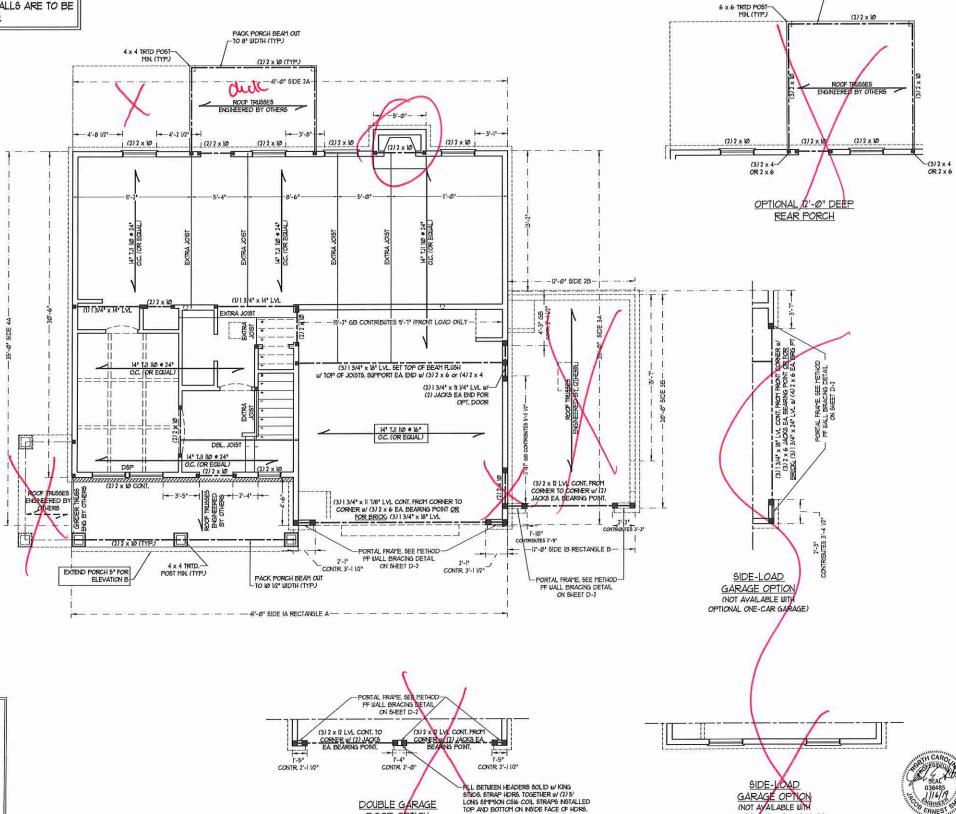
 60LIARES DENOTE PONT LOADS WHICH REQUIRE 60LID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO DE (2) STUDS (IND.). FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO
- BE SHEATHED WITH TAG! OSB SHEATHING WITH
- FOR HIGH UND ZONES, SECURE ALL EXTERIOR
 UALL SHEATHING PANELS FO DOUBLE TOP
 PLATES, BANDS, JOISTS, AND GIRDERS WITH (2)
 ROUS OF BOT MAILS STAGGERED AT 3" OC. PANELS
 SHALL EXTEND IN "BEYOND CONSTRUCTION JOINTS
 AND SHALL OVERLAY GIRDERS AND DOUBLE SILL PLATES THEIR RULL DEPTH.
 ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS
- W 5 STPSON ABUAL POST BASES (OR EQUAL) AND 6 x 6 POSTS W ABU66 POST BASES (OR EQUAL) (INO). ALL 4 x 4 AND 6 x 6 POSTS TO BE NSTALLED WITH 100 LB CAPACITY WPLFT CONNECTORS AT TOP (INC.)
- CONECTIONS AT TOP (INC):
 FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY
 OTHERS, SECURE TO SLAB W (?) METAL AVAILES
 USING 2" CONC. SCREWS, FASTEN AVAILES TO COLUMNS U/ 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

DSP - DOUBLE STUD POCKET

	CHEDULE FOR AL STONE SUPPORT	BRICK SUPPORT NOTES: L LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (LNO.). SEE ARCH DUGS, FOR SIZE AND LOCATION OF OPENINGS.
LENGTH (FT.)	SIZE OF LINTEL	2. (LLY): LONG LEG YERTICAL 3. LENGTH: CLEAR OPENING 4. EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO YENEER TO PROVIDE BEARING. 1. EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO YENEER TO PROVIDE BEARING.
UP TO 4 FT.	L 3 V2 x 3 V2 x V4	5. FOR ALL HEADERS 8'-Ø' AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W 12' LAG SCREUB 9 12' O.C. STAGGERED. 6. FOR ALL BRICK SUPPORT 9 ROOF LINES, FASTEN (2) 2 x 10' BLOCKING
4-8	L 5 x 3 1/2 x 5/16 LLV	BETUEEN STUDS w/ (4) 12d NAILS FER PLY. FASTEN A 6" x 4" x 5/6" STEEL ANGLE TO (17) x for BLOCKING w/ (7) 12" LAG SECRUS 0 10" (C. STAGGERED, SEE SECTION RIDS 82) OF THE 100% NORC FOR ADDITIONAL
8 AND GREATER	L 6 x 4 x 5/16 LLV	BRICK SUPPORT INFORMATION. 1. PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO). 2 x 4 9 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).



DOOR OPTION



RENAISSANCE

PACK PORCH BEAM OUT

RESIDENTIAL DESIGN, INC. INTERPRETATION OF THE PROPERTY OF THE PROPERTY

J.S.THOMPSON ENGINEERING, INC 60 WADEAVE, SUITE IN RALEIGH, NC 27605 PHONE (919) 789-9919 FAX, (919) 789-9921 N.C. LICENSE NO.; CJT33



H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017 REV.

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

ENGINEERED BY: WFB REVIEWED BY: JES

SECOND FLOOR FRAMING PLAN

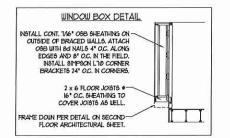
OPTIONAL ONE-CAR GARAGE)

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 > 4 9 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

 $>\!<$ -2 x 6 BALLOON FRAMED-WALL | 6 6' O.C. OR 2 | x 4 0 p. oc. (2) 2 x l/2 CONT. FROM CORNER TO CORNER

NATALL SIMPSON LTG CORNER

BRACKETS 24" O.C. N CORNERS FOR WINDOW BOX SUPPORT





WALL INFORMATION

NOTE: ALL EXTERIOR WALLS AND

- BRACED WALL DESIGN PER SECTION R60230 OF THE NOR. 2008 EDITION.
 CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURE, PAMELS" CONTRACTOR 16 TO INSTALL 176" OSB ON ALL EXTERIOR WALLS ATTACHED W 84 NAILS SPACED 6" OC. ALONG PAMEL EDGES AND 12" OC. IN THE FIELD.
 USP "NETERS TO "GTPSM" BOARD" CONTRACTOR 16 TO INSTALL 10" ("INV. GTPSM" WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 10" SCRUED OR I 16" NAILS SPACED "O' OC. ALONG PAMEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. OR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCR. 2008 EDITION SEE NOTES AND DITAIL SHEETS FOR ADDITIONAL BRACED WALL SHEETS FOR ADDITIONAL BRACED WALL SHEETS FOR ADDITIONAL BRACED WALL SHEETS FOR ADDITIONAL BRACED

NOTE:

- L FER SECTION R6/02/03/2 OF THE 2010 NCRC, THE AYOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AYOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS RECUIRED.
- ATTACH, 1010 10 NEGUINED.

 SHEATH ALL EXTERIOR WALLS WITH 7/16" OSB SHEATHING ATTACHED WITH BE NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

	CHEDULE FOR AL 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

BRICK SUPPORT NOTES:

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO.), SEE ARCH DUIGS, FOR SIZE AND LOCATION OF

- ARCH DUISS, FOR SIZE AND LOCATION OF OPENNAS.

 (ILLY) * LONG LEG VERTICAL.
 LENGTH * CLEAR OPENING
 ETIED ALL ANGLE IRONS MN 4" EACH
 SIDE INTO VENEER TO PROVIDE BEARING.
 FOR ALL HEADERS 8" A" AND GREATER
 IN LENGTH, ATTACH STEEL ANGLE TO
 HEADER W IN LAG SCREWS "0" OC.
 STAGGERED.
 FOR ALL BRICK SUPPORT * ROOF LINES,
 FASTEN (2) * NO PLOCKING BETWEEN
- FOR ALL BRICK STOPPONE ** PASTEN (27) X NO BLOCKING BETHERN STUDS W (4) DO NAILS PER PLY, FASTEN A 6* x 4* x 5/6* STEEL ANGLE TO (2) 2 x BLOCKING W (7) VI* LAG SCREUS ** IZ* OC. STAGGERED. SEE SECTION RIDS/82J
- O.C. STAKSERED, BEE BECTION R1033821 OF THE 2019 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION. PRECAST REINFORCED CONCRETE LINIELS BRANKERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

TABLE R607.15 MINMUM NUMBER OF FULL HEIGHT STUDS

HEADER &PAN (FEET)	MAXIMUM STUD SPACING (INCHES (PER TABLE R607.9/5)		
	16	24	
UP TO 3'	1	10	
4"	2	T:	
8'	3	2	
ים	5	3	
161	6	4	

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SET 12 (UNO). ALL TREATED LUTBER TO BE SYP 10 (UNO)
 ALL LOAD BEARN'S HEADERS TO BE (2) 2 x
 6 (UNO).
 WINDOW AND DOOR HEADERS TO BE
- UNDOU AND DOOR HEADERS TO BE SUFFORTED W (1) JACK STUD AND (1) KING STUD EA END (UNO.) SEE TABLE R609.115 FOR ADDITIONAL KING STUD REQUIRETENTS SALIARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR
- FOUNDATION ALL SQUARES TO BE (2)
- FOUNDATION, ALL SOLARGES TO SE CLY
 STIDG (NUS)
 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
 TO BE SHEATHED WITH 1/16" (568 SHEATHING
 WITH JONING SHEOKED WITH
 BOX NALLS AT 3" O.C. ALONG EDGES AND 6" OC N THE FIFT D
- O.C. IN THE FIELD.
 FOR HIGH WIND ZONES, SECURE ALL
 EXTERIOR WALL SHEATHING PAYELS TO
 DOUBLE TOP PLATES, BANDS, VOISTS, AND
 GIRDERS WITH (2) ROUS OF 8d NAILS STAGGERED AT 3" OC. PANELS SHALL EXTEND D' BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR RILL DEPTH. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TOP - TRIPLE STUD POCKET



RENAISSANCE

RESIDENTIAL DESIGN, INC.

J.S.THOMPSON ENGINEERING, INC (60 WADE AVE. SUITE IN RALEIGH, NC 27605 PHONE, 61917899919 FAX. (61917899921

N.C. LICENSE NO.: C-1731



H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017 REV.

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

ENGINEERED BY: WFB REVIEWED BY: JES

ATTIC FLOOR FRAMING PLAN

S-3



ELEVATION B

ATTIC VENT CALCULATION: 63 SQ FT, OF ATTIC DIVIDED BY 150 REQUIRES 0.4 SQ. FT. OF NET FREE VENTILATING AREA (MIN).

ENGINEERED BY OTHERS

ATTIC VENT CALCULATION: 286 SQ. FT. OF ATTIC DIVIDED BY 150 REQUIRES 1.9 SQ. FT. OF NET FREE VENTILATING AREA (MIN.). ATTIC YENT CALCULATION:

1630 6Q FT. OF ATTIC DIVIDED BY 150 REQUIRES 10.9 SQ. FT. OF NET FREE VENTILATING AREA (MIN.).

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12 SFF (UNO). CIRCLES DENOTE (3) 2 x 4 POSTS

- CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROCF SUPPORT.

 FRAFE DORFER MALLS ON TOP OF DOUBLE OR TRETLE RATERS.

 I HIP SPLICES ARE TO BE SPACED A MIN OF 8°-9°. FASTEN THE ROWS OF TO MIN THREE ROWS OF TO MIN THREE ROWS OF TO MIN THREE ROWS OF ROCF SECTIONS WIF 2 x 6 PARTERS 9 w 6° OC. AND HAT 2 x 80° AULETS OR USE VALLEY TRUSSES.

 7 x 6 RAFERS 9 w 6° OC. AND HAT 2 x 80° AULETS OR USE VALLEY TRUSSES.

 5 FASTEN HAT VALLEYS TO RATERS OR TRUSSES WITH SHIPSON WIDS A HARRICANE TIES 9 TROCHES WITH SHIPSON WIDS A HARRICANE TIES 1 ROCHES ACH RATERS TO BE FASTENED TO THE HAT VALLEY WITH A MIN OF (6) 12d TOE MALLS. TOE NAILS.
- TOE NAILS.
 REFER TO SECTION R8/02.11 OF THE
 2016 NORC FOR REQUIRED UPLIFT
 RESISTANCE AT RAFTERS AND
- TRUSSES.
 REFER TO NOTES AND DETAIL
 SHEETS FOR ADDITIONAL
 STRUCTURAL INFORMATION.

BRICK SUPPORT NOTE:

FASTEN (2) 2 x W BLOCKING BETWEEN WALL STUDS W (4) 70d NAILS FER PLY, FASTEN A 6' x 4' x 5/6' 5 TEEL ANGLE TO (7) 2 x W BLOCKING W (7) 12' 1.06 SCREWS 6 2' O.C. 51AGGERED. SEE SECTION RIVERS 21' OC. 51AGGERED. SEE SECTION RIVERS 21 CF HE 700' NACE FOR ADDITIONAL BRICK SUPPORT INFORMATION.

WHERE ROOF SLOFES EXCEED 1.10, NSTALL 3' x 3' x 14' 5 TEEL PLAITE 51OFS AT 24' OC. FER SECTION RIVERS 21 OF THE NORTH CAROLINA RESIDENTIAL CODE, 7010 EDITION.





RENAISSANCE

RESIDENTIAL DESIGN, INC.
4810 GLEMMIST CT. | RALEIGH, NC 27612
(919) 649-4128
WWW.RRIDCAROLINA.COM
*The an of transforming your vision into re stry.

J.S.THOMPSON ENGINEERING, INC (66 WADE AVE. SUITE IN RALEIGH, NC 27605 PHONEL (919) T89/9919 FAX. (919) T89/9921 N.C. LICENSE NO., C.1333



H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017 REV.:

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

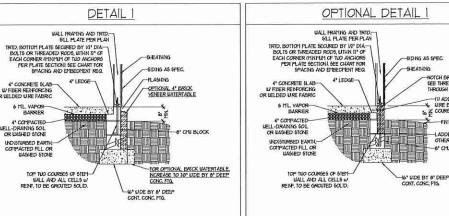
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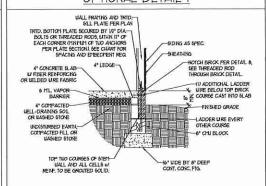
ENGINEERED BY: WFB REVIEWED BY: JES

ROOF PLAN **ELEVATION - B**

SLAB AT GARAGE DOOR DETAIL

STEMWALL DETAILS





OPTIONAL STEM WALL DETAIL

DETAIL 3

-FNSIED GRADE

-LADDER URE EVERY OTHER COURSE

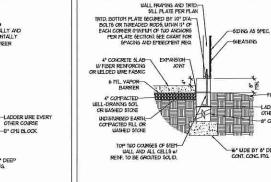
e, CHI BI CCX

DETAIL 2 WALL FRAMING AND TRID: SILL PLATE PER PLAN TRID. BOTTOM PLATE SECURED BY IV' DIA-BOLTS OR THREADED RODS, WITHIN B' OF EACH CORNER (TINITH) OF TO ANCIONS FER PLATE SECTION, SEE CHART FOR SPACING AND EMBEDDMENT REQ. -FLASHING 4" LEDGE -LEEP HOLES 6 ML VAPOR-BARRER 4" COMPACTED— ELL-DRANNG 50% OR WASHED STONE

-D' CHI BLOCK

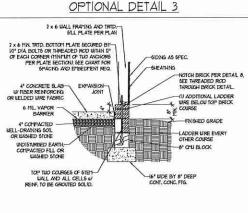
TYPICAL STEM WALL DETAIL

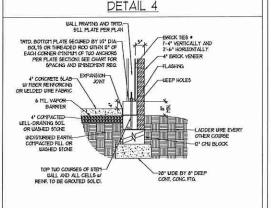
(w/ OPTIONAL WATERTABLE)



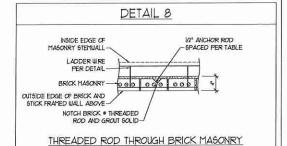
TYPICAL STEM WALL FND. W/ BRICK DETAIL

TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE





TYPICAL STEM WALL FND. DETAIL W/ BRICK OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE AND CURB @ GARAGE



MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT 4" BRICK AND 4" 4" BRICK AND 8" 12° CMU 8" CMJ 2 AND BELOW UNGROUTED GROUT SOLID UNGROUTED INGROUTED UNGROUTED GROUT SOLID UNGROUTED 3 UNGROUTED GROUT SOLID W/ *4 REBAR # 48* O.C. GROUT SOLID W/ N GROUT SOLID GROUT SOLID GROUT SOLID W/ 4 GROUT SOLID w/ 4 REBAR # 36° O.C. GROUT SOLID W/ N NOT APPLICABLE REBAR # 64" O.C. GROUT SOLID u/ 44 GROUT SOLID u/ 44 REBAR # 24" O.C. REBAR # 64" O.C. NOT APPLICABLE AND GREATER ENGINEERED DESIGN BASED ON SITE CONDITIONS

STRUCTURAL NOTES:

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

FOUNDATION NOT COMMON TO HOUSE.

BACKFILL OF CLEAN \$51 / 61 WASHED STONE IS ALLOWABLE.

BACKFILL OF LIELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (145 PSF/FT BELOW GRADE)

CLASSFIED AS GROUP I ACCORDING TO UNFIED SOILS CLASSFIEDATION SYSTEM IN ACCORDANCE

WITH <u>LABLE REPO</u>L OF THE 2018 NIERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

PREP \$4.89 FER \$5061 AND \$50612 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE.

MINIMUM 14" LAP SPLICE LENGTH.

COCATE FERDAR IN CENTER OF ENTINGATION WALL

LUCATE REBAR IN CENTER OF FOUNDATION WALL.

WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE '5' MORTAR OR 3000 FSI GROUT, USE OF 'LOW
LIFT GROUTING' METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND
GREATER.

AN	ICHOR SPACING AND	EMBEDMENT
WIND ZONE	120 MPH	130 MPH
5PACING	6'-0" O.C.	4-0° o.c.
EMBEDMENT	1'	15" INTO MASONRY 1" INTO CONCRETE

0 OMPS FRING UTE 104 RALEIGH. S. H. (
N. G. I. N. E. E. SOG WADE AVE., SUIT PHONE, (919) 79077

YANYANYANYANYANYANYA

SPEED MIND MPH ULTIMATE I FOUNDATION D 130

DATE: NOVEMBER 14, 2018 SCALE NTS RAWN BY: JST GINEERED BY: JES

D-1 FOUNDATION DETAILS

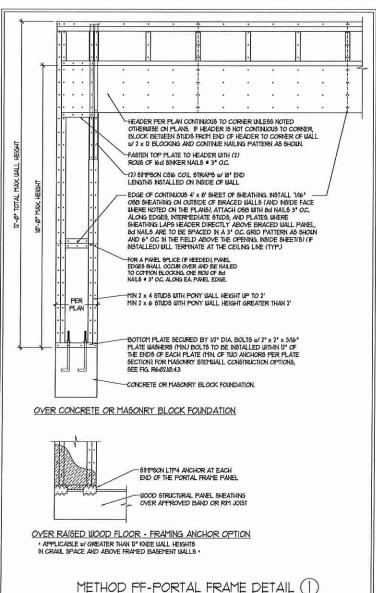


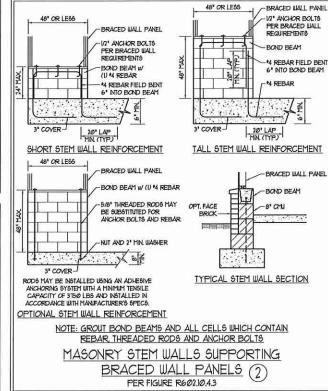
- L WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC.). TABLES AND FIGURES REFERENCED ARE FRONT THE 2018 NCRC.
 2. SEET THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
 3. SEET STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIPCHSIONS, MCA.D DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-USP IN ACCORDANCE WITH SECTION R6(0) (0/3 UNLESS NOTED
- O'HERIDBE.

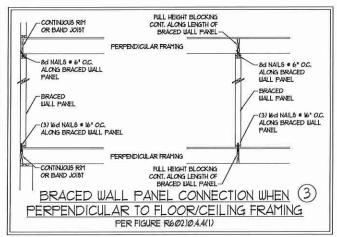
 5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE V2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED FER TABLE RISO/18.

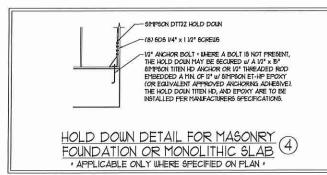
 6. CS-WEP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PAVELS" WALL BRACING METHOD. 17/6" CSB SHEATHING IS TO BE INSTALLED CHI, ALL EXTERIOR WALLS ATTACHED W 64 CONTINUOUS OR 84 (7 W)" LONG X 0/10". DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO.).
- I. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD, 1/2" (MIN) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH I I/4" SCREWS OR I 5/8" NAILS SPACED TO OC ALONG PANEL EDGES BOTH SIDES OF THE BRACED WALL FASTENED WITH THAT SCREWS OR I 596 "NAIS. SPACED TO OZ. ACMS PARSE EDECES NCLUDMS TOP AND BOTTOM FALTES AND NETROTECTED SEPPORTS (WINQ). YERRY ALL FASTENER OPTICMS FOR IV! AND 565" GTPSWIT PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTICMS SEE TABLE RIGHTS. SET EXTERIOR FASTENER OPTICMS SEE TABLE RIGHTS. DETECTION. EXCELLED VERTICALLY.

 REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED FER TABLE RIGHTS OF SUMP CONTRIBUTES TO ACTUAL LENGTH, AND HETHOD GIB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND HETHOD FE CONTRIBUTES IS TIMES ITS ACTUAL LENGTH, AND









TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING (5) PER FIGURE R602.10.3(5) MIN 24" IIVXXX STELCTURAL SEE TABLE RAMINUL ORIENTATION OF STUD MAY VARY, SEE FIGURE R6023(2) 16d NAIL (3 1/2" x Ø.131") -GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDANCE WITH CHAPTER 1 (TYP) OPTIONAL NON-STRUCTURAL FILLER PANEL CONTINUOUS WOOD STRUCTU PANEL BRACED WALL LINE FOR FASTENING -CONTINUOUS WOOD STRUCTURA (a) OUTSIDE CORNER DETAIL (5a) ORIENTATION OF STUD MAY 16d NAIL (3 V2" x ØJ31") CONTINUOUS WOOD STRUCTURA PANEL BRACED WALL LINE · D' OC. SEE TABLE R6 02.3(1) GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDANCE WITH MIN 24" WOOD STRUCTURAL PANEL CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED - SEE TABLE R6/023(1) FOR FASTENING AND INSTALLED IN ACCORDANCE 16d NAIL (3 12" x Ø.131") (2 ROUS # 24" O.C.--Min. 24" Wood Structural Panel Corner Return. An 800 LB Hold Down Device SHEATHING PER PLAN-MAY BE INSTALLED IN LIEU OF CORNER RETURN CONTINUOUS WOOD STENERS ON EACH STUD 50 BRACED WALL LINE-AT EACH PANEL EDGE

(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

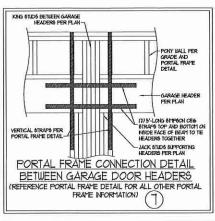
STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

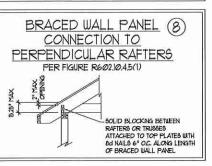
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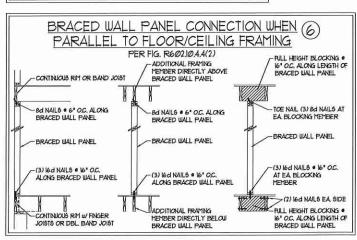
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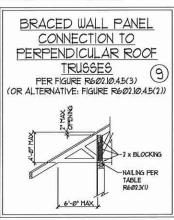
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OZ.

M P RIEIGH.

S. HHG

SPEED

DESIGN WIND S S AND DETAILS

MPH ULTIMATE I BRACING NOTES

MPH - 130 WALL I

0

SCALE 1/4" • 1'0"

DRAWN BY: IST ENGINEERED BY: IST

> D-2 BRACED WALL

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAYS, HEADERS, COLUMS, CAVILLEVERS, OFFSET LOAD BEARNS WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENSINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT NOLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOORROOF TRUSS. LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NORC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL DISINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION. WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NORG, 2018 EDITION (R3014 R3017)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	100	L/140 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	100	L/36Ø
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	ko	L/360
FIRE ESCAPES	40	Ø	LB6Ø
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	NO.	LB60
PASSENGER VEHICLE GARAGE	5Ø	Ø	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	100	L/36Ø
SLEEPING ROOMS	3Ø	100	LB60
STAIRS	40	100	L/360
WND LOAD	(BASED ON TABLE R3012)	4) WIND ZONE AND EXPOSURE	
GROUND SHOW LOAD: Pa	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/4800
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 16 TO COMPLY WITH SECTION R40316 OF THE NORC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NORC, 2018 EDITION
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- L FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARN'S CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARN'S CAPACITY IS NOT ACHIEVED.
- FOR ALL CONCRETE 9LABS AND FOOTINGS, THE AREA WITHIN THE PERMITTER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP
 SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE
 COMPACTED TO ASSURE INFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24° FOR CLEAN SAMD OR GRAVEL. A 4" THICK BASED COURSE CASHSTING OF CLEAN GRADED SAND OR GRAVEL, HALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDING TO THE ORDER OF THE ORD
- PROPERLY DEMATER EXCAVATION PRIOR TO POURNS CONCRETE WEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. F
 APPLICABLE, 314" I" DEEP CONTROL JOINTS ARE TO BE SAILED WITHIN 4 TO ID HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
 BERN HAMPED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NORC, 2018 EDITION, CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60 WELDED WIRE FABRIC TO DE ASTIM ARIS, MAINTAIN A HINNIMIT CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 119" IN SLABS, FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE MIDDE FACE OF THE WALL SHALL. SHALL SHALL
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/THS 402. MORTAR SHALL CONFORM TO ASTM C210.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIRESSON FOR SOLID FILLED PIERS, PERS MAY BE FILLED SOLID WITH CONCRETE
 OR TYPE M OR 6 MORTAR PIERS AND WALL6 SHALL BE CAPPED WITH 8' OF SOLID MASONRY.
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404 (VI), R404 (V2), R404 (V3), OR R404 (V4) OF THE ARE TO BE REPORTED FOR THE RESIDENT MALLE ARE TO BE REPORTED FOR TABLE RAPALITY OF THE NORC, 2018 EDITION. CONCRETE FOUNDATION WALLE ARE TO BE REPORTED FOR TABLE RAPALITY OF THE NORC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLE TO 2 x 6 FRAMED WALLS AT 16" O.C. WE'RE GRADE PERMITS (UNO).

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FRAMING NOTES

- 1 ALL FRAMING LIMBER SHALL BE 12 SPF MINIMUM (Fb = 815 PS), Fv = 315 PS), E = 16000000 PSI) UNLESS NOTED OTHERUISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 PS), Fv = 115 PS), E = 16,000,000 PS)) UNLESS NOTED OTHERWISE (UND)
- LAMNATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fo *2600 PSI, Fy * 285 PSI, E * 19000000 PSI. LAYNATED STRAYD LUYBER (LSL) SHALL HAVE THE ROLLOWING MINIMUM PROPERTIES: FO = 2325 PGI, FV = 940 PGI, E = 8500000 PGI.
 PARALLEL STRAYD LUMBER (PGI, JUP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PGI, E = 10000000 PGI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc . 2900 PSI, E . 20000000 PSI. INSTALL ALL CONNECTIONS FER MANUFACTURER'S SPECIFICATIONS.
- 3. ATRICTIPAL ATESI, SUALI, CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A	W AND WT SHAPES:	ASTM A992	
B.	CHANNELS AND ANGLES:	ASTM A36	
C.	PLATES AND BARS.	ASTM A36	
D.	HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B	
F	STEEL PIPE.	ASTM A53 GRADE B TYPE F OR S	

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 I/2* AND RULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARNIG FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO).

(2) 1/2" DIA x 4" LONG LAG SCREWS B. CONCRETE (2) I/2" DIA x 4" WEDGE ANCHORS C. MASONRY (RULLY GROUTED) (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS

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 w/ (2) ROUS OF SELF TAPPING SCREUS * Is* O.C. OR (2) ROUS OF 1/3* DIA/TETER BOLTS * Is* O.C. IF 1/3* BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROUS OF 9/16* DIA/TETER

- 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
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE REGIZE(I) AND REGIZE(I) OF THE NORC. 2018 EDITION OR BE (2) 2 x 6 WITH (I) JACK. AND (1) 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 SUFFORTED WITH (2) STUDS AT EACH BEARING FONT (UNO). INSTALL KING STUDS PER SECTION R6/02.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR PULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STIDS NOTED, ALL BEATS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STIDS OR LESS ARE TO HAVE I I/I* MINIMUM BEARNS (INO.), ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STIDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO), BEAM ENDS THAT BUTT INTO ONE
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2* DIAPETER BOLTS (ASTM AS/91) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24* CENTERS (MAXIMIM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2* EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6' PROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION
- M. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING ITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RG/07/10
- IL PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR ISES OR 1-JOISTS FER 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 VENEER THAT ARE LESS THAN 8'-0' IN LENGTH, REST A 6' x 4' x 5/6' STEEL ANGLE WITH 6' MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UND), FOR ALL HEADERS 8'-Ø' AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH IO" LAG SCREUB AT ID" OC. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO (2) 2 x 10" BLOCKING INSTALLED W (4) I'D MAILS EA PLY BETWEEN WALL STUDS WITH (2) ROUS OF I/2" LAG SCREUB AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03.821 OF THE NORC, 2018 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 ROWS 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" O.C. 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 LISTS UPLET CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, ONE IS SECTION OF SIMPSON COILS STRAPPING WITH (8) BUTHOS NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASCAIRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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SPEED DESIGN WIND SURAL NOTES ILTIMATE DESIG - 130 MPH UL STANDARD 8 MPH

DATE: NOVEMBER 14, 2018 CALE: 1/4" • 1'0"

VRAMA BY TES

NGINEERED BY: IST



S-0 STRUCTURAL

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