TOPSAIL

TOPSAIL REVISION LIST-STRUCTURAL:

- 1.) ADDED I-JOIST SERIES AND SPACING TO SECOND FLOOR FRAMING AND CRAWL (10-17)
- 2.) REMOVED BEDROOM VAULTS AND BALLOON FRAMING (10-17)
- 3.) CHANGED STANDARD HEADER SIZE TO 2 x 6. CALLED OUT 2 x 10 WHERE NECESSARY (10-17)
- 4.) CHANGED TO (3) PLY GARAGE HEADERS (10-17)
- 5.) CODE UPDATE TO NCRC 2018 (1-19)

TOPSAIL REVISION LIST - ARCHITECTURAL:

1.) WINDOWS CHANGED TO 3-0 WIDTH (5-30-14)

2.) STAIR TREADS CHANGED TO 10" (5-30-14)

3.) ELECTRICAL PLAN ADJUSTED (7-21-14)

4.) MOVED COAT CLOSET FROM FOYER AND RELOCATED PANTRY CLOSET (1-12-15)

5.) MOVED SERVICE DOOR TO FRONT OF GARAGE (1-12-15)

6.) ADDED PORCH WRAP OPTION, DOUBLE GARAGE DOOR OPTION, 12-0 DEEP REAR PORCH OPTION,

12-0 REAR PATIO OPTION (1-12-15)

7.) ELIMINATED WING WALL IN FAMILY ROOM (1-12-15)

8.) ELIMINATED SIDE WINDOW IN FAMILY ROOM (1-12-15)

9.) ADDED ALL BRICK OPTIONS (124-15)

10.) ADDED CLOSET UNDER STAIRS.

11.) SHIFTED GARAGE ENTRY AND COAT CLOSET TOWARDS FAMILY ROOM 4". (10-17)

12.) ELIMINATED SECOND PANTRY FROM KITCHEN EXTERIOR WALL, MADE VALET STD. WITH OPT. SHELVES. (10-17)

13.) REMOVED CEILING VAULTS FROM BEDROOMS #2, #3 AND LOFT/ BEDROOM #4. (10-17)

14.) ELIMINATED CHASE AT SECOND FLOOR HALL BATH. mOVED VANITY DOWN AND ADDED 45* WALL AT TOILET. (10-17)

15.) SWAPPED P.D.S. AND RETURN LOCATIONS ON SECOND FLOOR. (10-17)

16.) MODIFIED MASTER BATH TO ACCOMMODATE A WATER CLOSET. (10-17)

17.) CHANGED FIREPLACE FROM 36" TO 32" (3-19)

IOMES

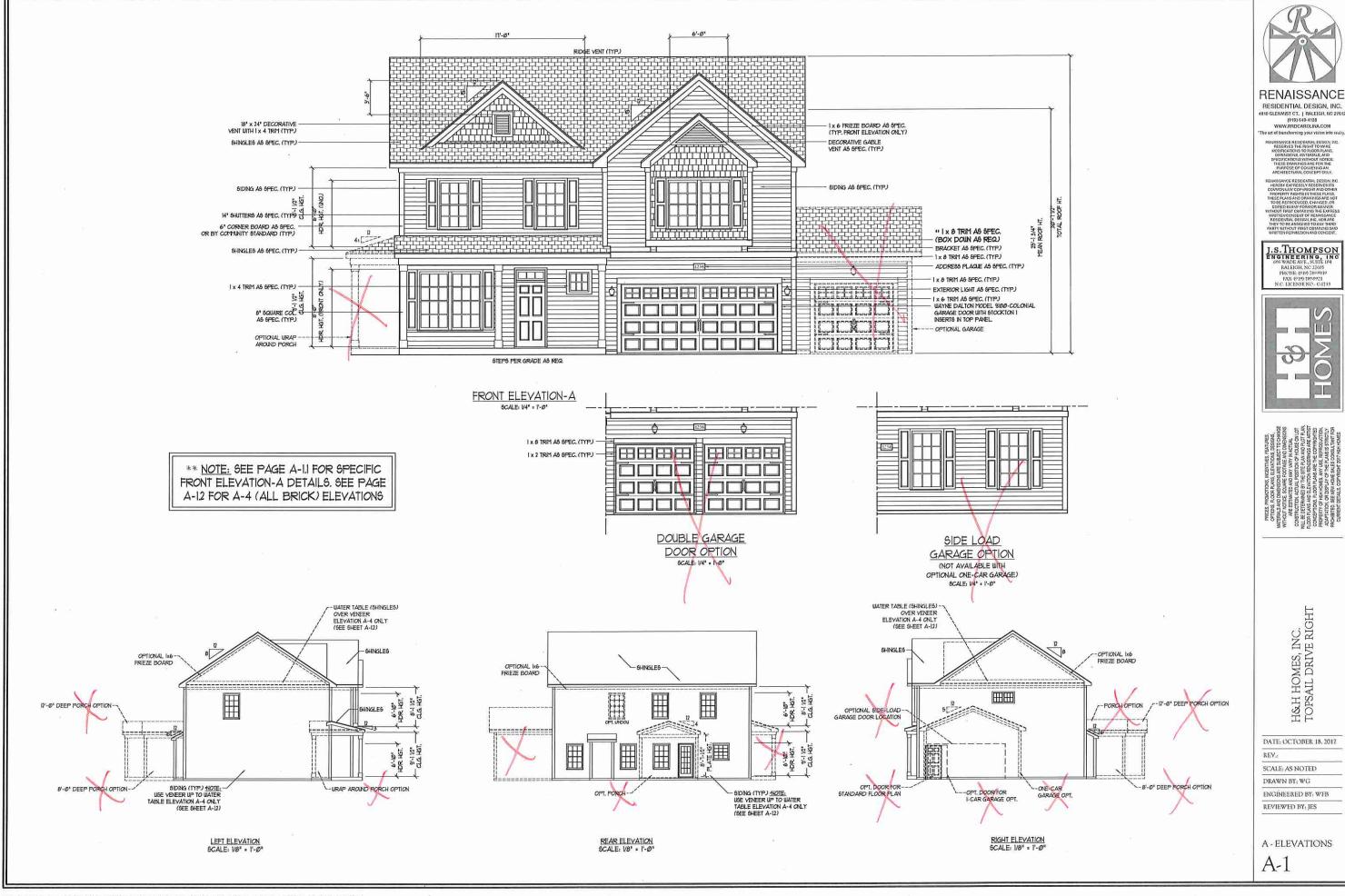
VER SHEET

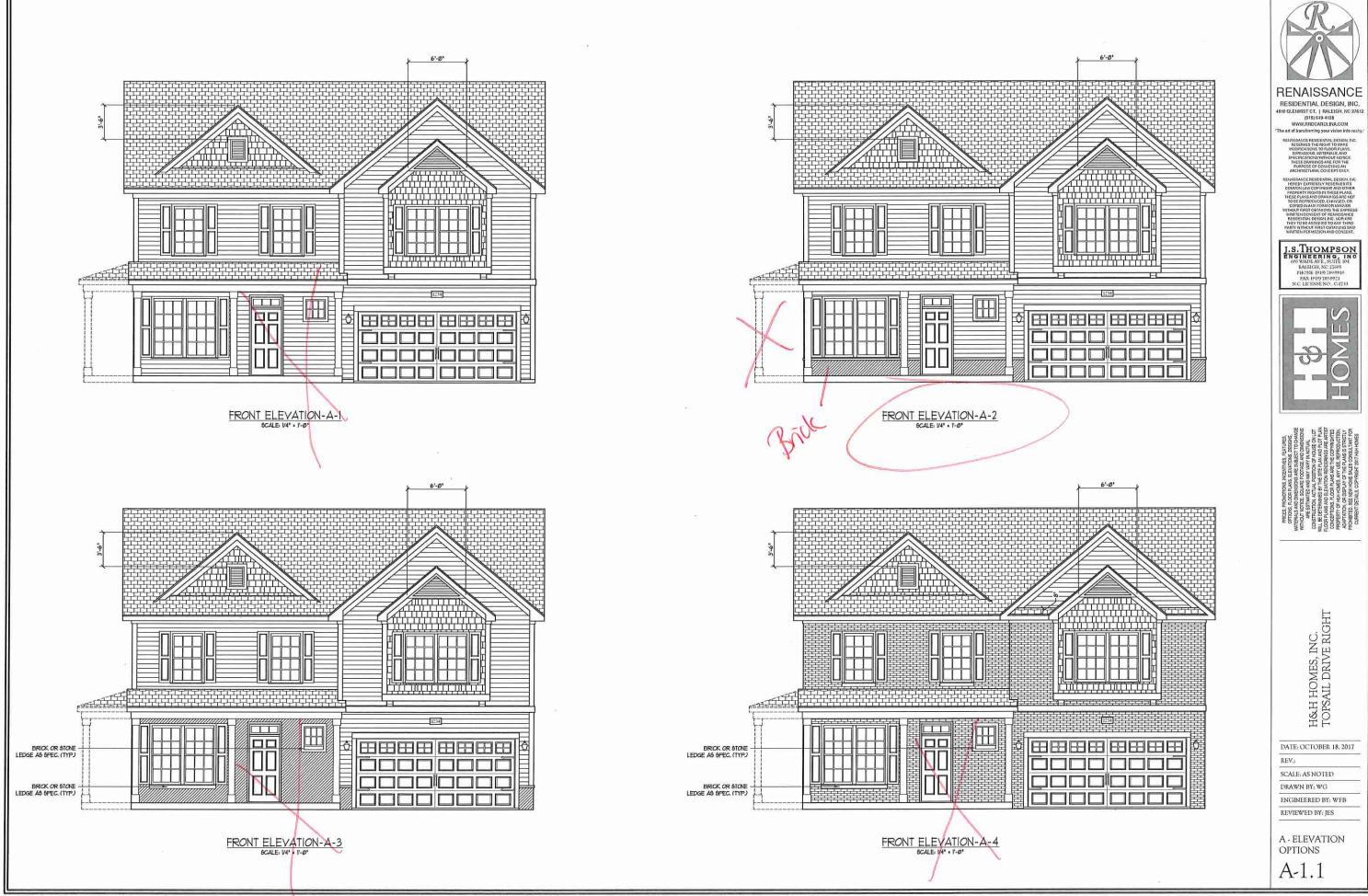
whed

1&H HOME

DATE: 10-13-17
EEV.: 3-21-19
DRAWN BY: WO
NOINEERED BY:
LEVIEWED BY:

CS





NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 9 16" O.C. (UNO). 2 x 4 a 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 # 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 = 24" O.C. (UNO).

2x6 WALL

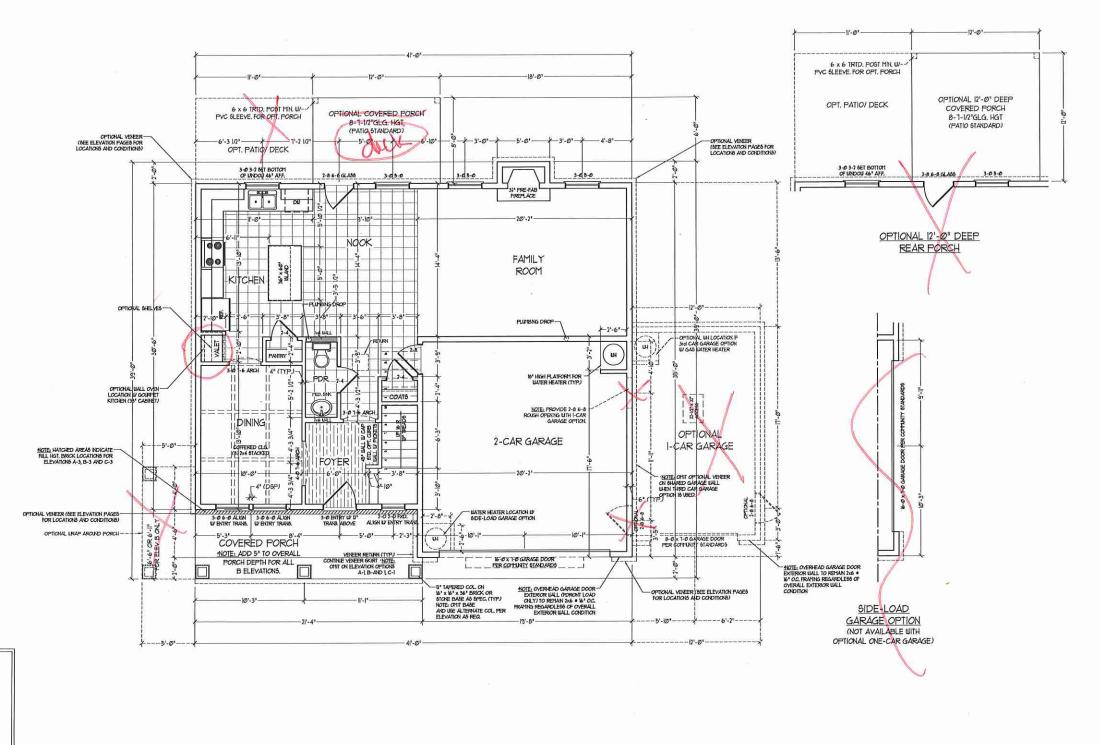
· SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION

SQUARE FOOTAGE

1st 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 (8-0 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.



8-0 x 1-0 GARAGE DOOR PER CONMINITY STANDARDS

DOUBLE GARAGE

DOOR OPTION



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

DRAWN BY: WG

ENGINEERED BY: WFB REVIEWED BY: JES

FIRST FLOOR PLAN

A-4

3-06-DALKN EVENTR TRANS

SIDE-LOAD

GARAGE OPTION

(NOT AVAILABLE WITH

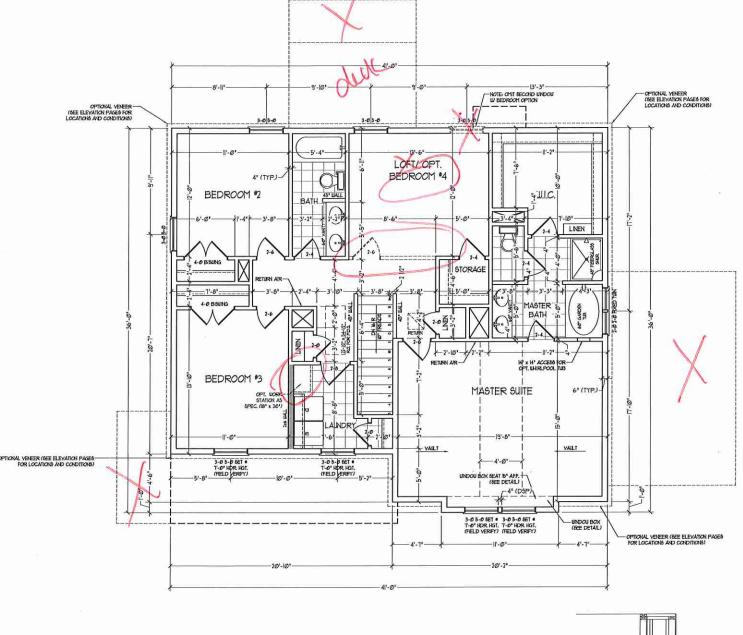
OPTIONAL ONE-CAR GARAGE)

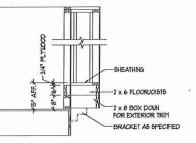
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NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 a 16" O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO), ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR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





WINDOW BOX DETAIL 6CALE NT6



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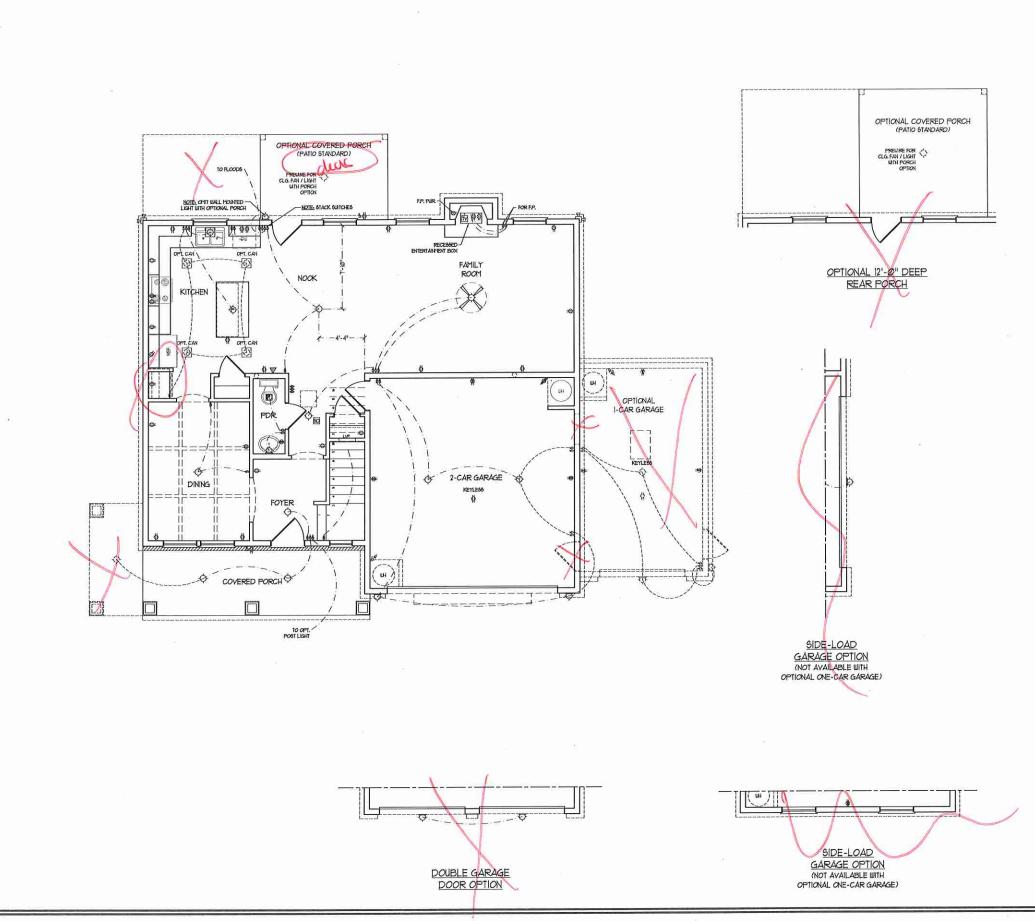
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ENGINEERED BY: WFB

REVIEWED BY: JES

SECOND FLOOR PLAN

A-5





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ENGINEERED BY: WFB
REVIEWED BY: JES

FIRST FLOOR ELECTRICAL

PLAN E-1

ELECTRICAL LAYOUT NOTES: U BLOCK AND LIKE FOR ALL CELNG FANS FER FLAN.

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

4) PLACE SUTCHES 8" (MINU FROM ROUGH OPENINGS.

ELECTRICAL LEGEND

⇔ IØ V ØJILET

4-PLEX

EMATHER PROOF

10 70 Y CUTLET

10 Y DEDICATED CROUNT

✓ HIN CAN FRAIL
 ✓ GETING HONLI FRAIL
 ✓ GETING HONLI FRAIL

DEVERALL LIGHT

HUDREACENT LIGHT

UNDERCARNET LIGHT

FLOOD LIGHT

FLOOD LIGHT

SALLY SUITCH

4 -- LILLY SUITCH

5 DITTER SUITCH

A ILLPHANE

TY CONNECTION

CO- CONDUIT FOR COMPONENT WIRN

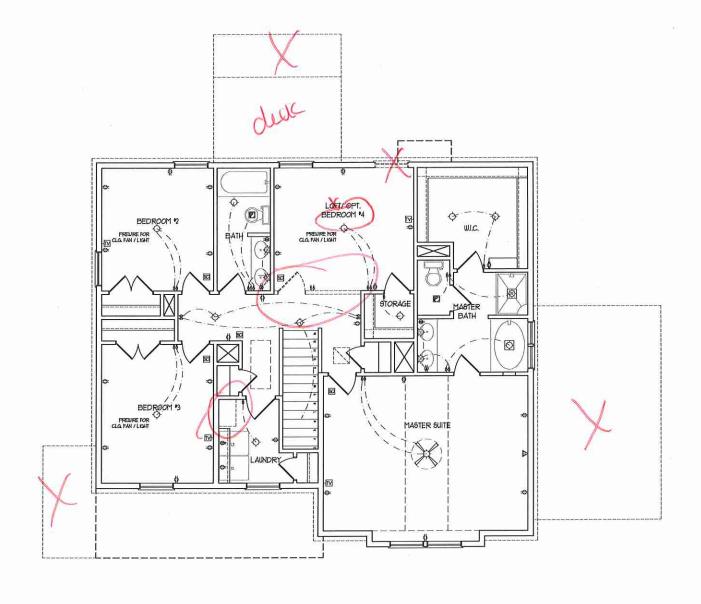
FF SPEAKER

D- DOORBELL CHINE
DO V SHOKE DETECTOR
DESCRIPTION

LVP LOW VOLTAGE PAVEL

TO Y GH CUTLET







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SECOND FLOOR ELECTRICAL

PLAN E-2

C:\Users\Wade\Documents\Projects\H&H Homes\Topsail\Topsail\NC\Topsail\NC\GR\Topsail_GR_10-18-17_code update 1-19.dwg, 1/16/2019 10:00:58 AM

FOUNDATION VENTILATION CALCULATION

949 5Q FT. OF CRAILL SPACE DIVIDED BY 1500 EQUALS 0.6 SQ. FT. OF NET FREE AREA REGUIRED. INSTALL 6 HIL POLY TO COVER ENTIRE CRAIL SPACE, LOCATE VENTS

50 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- DIGNEERS SEAL APPLES ONLY TO STRUCTURAL COLPONENTS DIGNEERS SEAL DOES NOT CERTIFY DIFFESIONAL ACCURACY OR ARCHITECTURAL LAYOUT
- ACORACY OR ARCHITECTURAL LAYOUT NATURN ROCE SYSTEM COMPLET AS "CHICA UND ZONE FOR BECHAPIER 45 "CHICA UND ZONE" FOR BECHAPIER 45 "CHICA UND ZO
- BULDER IS TO PROVIDE PRAYING BULDER IS TO PROVIDE PRAYING
 CONNECTIONS AS REQUEED BY CHAPTER
 45 (HIGH UND ZONES) FOR BO PRH
 UNDB) OF THE NORTH CARCA NA
 RESIDENTIAL CODE, 2018 EDITION
 FOUNDATION AND/ORACE TO COPPLY UTIL
 SECTION 4564 OF THE NORTH CARCANA
- RESIDENTIAL CODE, 2018 EDITION. HEAN ROOF HEIGHT IS LESS THAN 30 FEET.

- EDITION AND AS NOTED ON PLANS.
- ENERGY EFFICIENCY CONFLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2016 EDITION.

DO MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- BYGAERRO EGAL APPLED ONLY TO
 STRUCTURAL COMPONENTS BYGAERRO SEAL
 DOES NOT CERTED TO THE MOVEL
 ACCIDANT OF ARCHITECTURAL LAYOUT
 ACLIDANG FOR PASTIETT BY BYGAERRO
 STRUCTURAL DESIGN FOR WORK
 ANNIAL MY ANGARE BOATS 6"9" OG. AND
 UNIAL 10" BYGAERRO TO 6" OF DE ANGAL
 ANGARE BOATS 10" BYGAERRO TO BE BOAT
 ANGARE BOATS 10" BYGAERRO OF PLATE UDDIN
 16" BOATS 10" BYGAERRO OF PLATE UDDIN
 16" BOATS 10" BYGAERRO FOR BO 19" HI
 UNDO.
- UNDA.

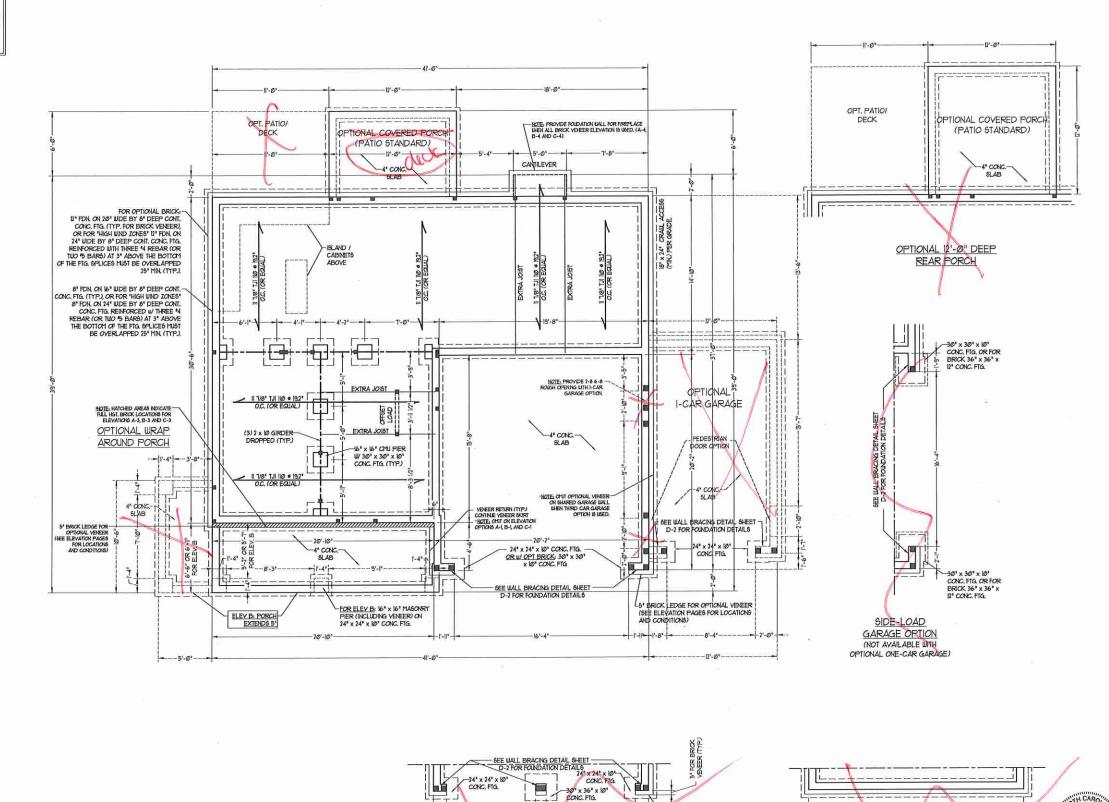
 WALL CLADDING DESIGNED FOR 455 PSF
 AND -20 PSF (V- NO)CATE POSITIVE /
- AD -30 PEF (4 NOCASTE POSITIVE /
 NEGATINE PRESIDER (TIP)

 1. ROCE CLADDING DESIGNED FOR 440 PER
 AD -30 PER FOR ROCE PRICISED VIO 10 10
 AD -30 PER AD -36 PER FOR ROCE
 PRICISED 2359 TO 100.

 8. INSTALL 1/46* COS SELENTING CH. ALL
 EXPERIOR ULLLIG OF ALL STOKES 9 OF
 RECHES OF AUGUST OF ALL
 BOACHS NOTICE AND DETAILS SHEET FOR
 THE MICH. 2009 SELENTING RESIDED OF
 RECHES OF AUGUST AND SELENTING FOR BUILD
 ROCKES NOTICE AND DETAILS SHEET FOR
 NACCORDINACE WITH GAMPTER 1 OF THE
 NACCORDINACE
 NACCORDINA

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12
- ALL FRAMING LIMBER TO BE 7
 SPF (INO). ALL TREATED LIMBER
 TO BE 7 SYP (INO).
 NSTALL AN EXTRA OR DOUBLE
 JOIST UNDER WALLS PARALLEL
 TO FLOOR JOISTS WHERE NOTED
- ON THE PLANS. SOLIARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION
- SHADED PIERS TO BE FILLED
- NSTALL LADDER WIRE . 16' OC TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION



1-1-3"

DOUBLE GARAGE

DOOR OPTION



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

ENGINEERED BY: WFB

REVIEWED BY: JES

CRAWL FOUNDATION PLAN

S-1

SIDE-LOAD

GARAGE OPTION

(NOT AVAILABLE WITH

OPTIONAL ONE-CAR GARAGE)

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R6/02/0 OF THE
- EXACED MALL DESIGN FER SECTION REGION OF THE MICKES 298 EDITION.

 C5-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO NSTALL TIME" OSB ON ALL EXTERIOR WALLS ATTACHED W BO NSTALL TIME" OSB ON ALL EXTERIOR WALLS ATTACHED W BO NSTALL STREET OF "CO. ALONG PANEL ECOSES AND IS" OC. N THE FIELD.

 GB REFERS TO "GYPSIM" BOARD" CONTRACTOR IS TO INSTALL TIME WITH THE CONTRACTOR IS TO INSTALL THE WALLS AND IN JUST CONTRACTOR IN JUST CONTR
- 1/2" (MINJ GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I 1/4" SCREWS OR I 5/8" NAILS SPACED 1" OC. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES
- BOTTOM PLATES,

 BRACED WALL DESKIN APPLIED IN WIND ZONES UP TO BØ MPH.

 FOR NIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED

 IN ACCORDANCE WITH CHAPTER 45 OF THE NORC. 2010 EDITION,

 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

 WALL INFORMATION.

BRACED WALL DESIGN

RECTANGLE A	RECTANGLE B
SIDE IA (FRONT LOAD)	SIDE IB
METHOD: C5-W5P/FF/GB	METHOD: C5-WSP/PF
TOTAL REQUIRED LENGTH: 15.1"	TOTAL REQUIRED LENGTH: 456
TOTAL PROVIDED LENGTH: 216"	TOTAL PROVIDED LENGTH: 6'
SIDE 2A	SIDE 2B
METHOD: C5-USP	METHOD: C5-W5P
TOTAL REQUIRED LENGTH: 15.1"	TOTAL REQUIRED LENGTH: 456
TOTAL PROVIDED LENGTH: 2066'	TOTAL PROVIDED LENGTH: 12"
SIDE 3A (SIDE LOAD)	SIDE 3B
METHOD: C5-WSP/FF/GB	METHOD: C5-WSP
TOTAL REQUIRED LENGTH: 1155'	TOTAL REQUIRED LENGTH: 339'
TOTAL PROVIDED LENGTH: 2012'	TOTAL PROVIDED LENGTH: 15.5:
SIDE 4A	SIDE 4B/3A CUMULATIVE
METHOD: C5-USP	METHOD: C5-WSP/GB
TOTAL REQUIRED LENGTH: 1155"	TOTAL REQUIRED LENGTH: 20.7
TOTAL DEPOMPTED LENGTH, 3ET	TOTAL DOOMED LENGTH, 314

TABLE R607.15 MINIMUM NUMBER OF PULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMM STUD SPACING (INCHES) (PER TABLE R6/013/5)		
(PEE)	16	24	
UP TO 3'	1	F	
4'	2	į.	
8'	3	2	
D,	5	3	
	- 24		

STRUCTURAL NOTES:

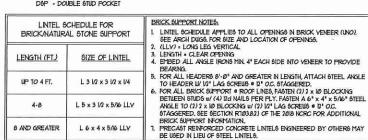
- ALL FRAMING LUMBER TO BE SFF 12 (UNO). ALL TREATED LUMBER TO BE SYP 12 (UNO.)
- (UNO). INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (I) JACK STUD AND (I) KING STUD EA END (UNO). SEE TABLE R602.15 FOR ADDITIONAL KING STUD
- REQUIREMENTS. SQUARES DENOTE POINT LOADS WHICH REQUIRE
- SOLID BLOCKING TO GIRDER OR FOUNDATION
 ALL SQUARES TO BE (?) STUDS (UNO)
 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO
 BE SHEATHED WITH TAG! OSB SHEATHING WITH JONTS BLOCKED AND SECURED WITH 8d NAILS AT 3º OC. ALONG EDGES AND 6º OC. IN THE FIELD.
- 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 IZ" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL
- PLATES THEIR RILL DEPTH.

 ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS

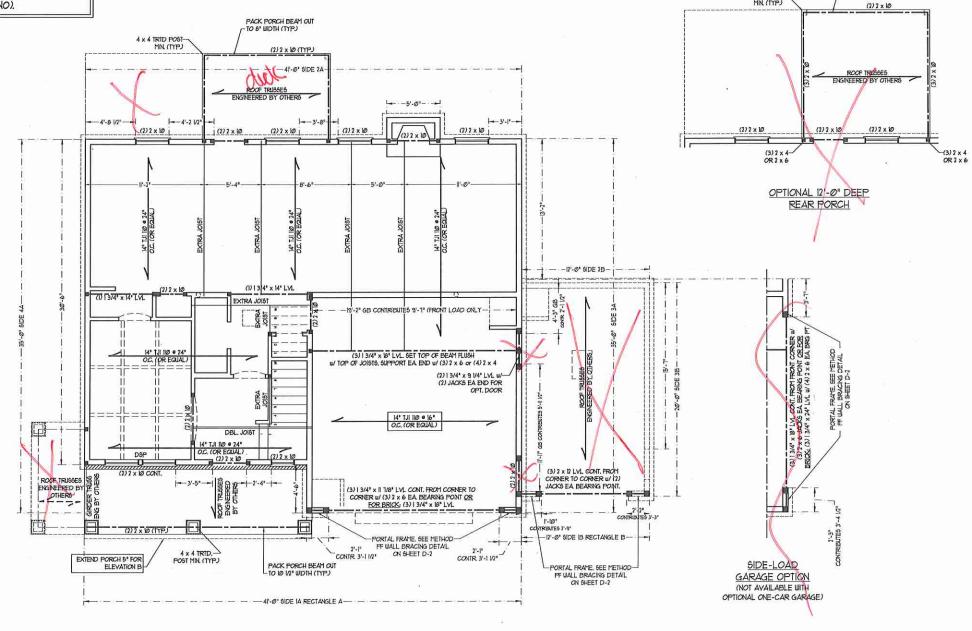
 W SIMPSON ABU44 POST BASES (OR EQUAL) AND

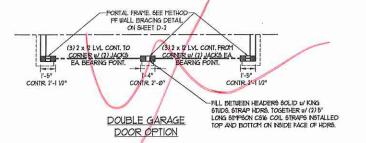
 6 x 6 POSTS M ABU66 POST BASES (OR EQUAL). (INO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1800 LB CAPACITY WPLET
 CONNECTORS AT TOP (UNO.)
 FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY
- OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREWS, FASTEN ANGLES TO COLUMNS by IMP THROUGH BOLTS by NUTS AND
 WASHERS. LOCATE ANSLES ON OPPOSITE SIDES
 OF COLUMN. THROUGH BOLTS MUST BE INSTALLED
- PRIOR TO SETTING COLUMN. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION

D&P - DOUBLE STUD POCKET



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).





SIDE-LOAD GARAGE OPTION (NOT AVAILABLE WITH OPTIONAL ONE-CAR GARAGE)



RENAISSANCE

PACK PORCH BEAM OUT

6 x 6 TRTD POST-MIN (TYP)

RESIDENTIAL DESIGN, INC.

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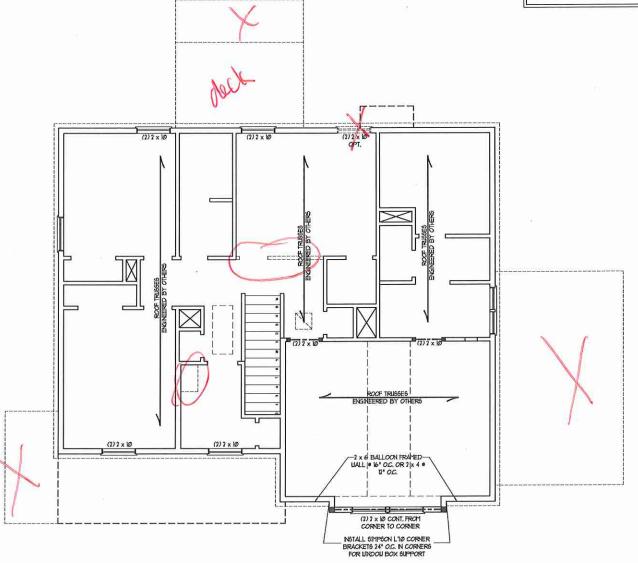
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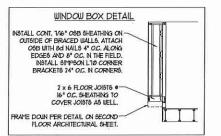
REVIEWED BY: IES

SECOND FLOOR FRAMING PLAN

S-2

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







- BRACED WALL DESIGN PER SECTION R60210 OF THE NCRC 2010 EDITION. CS-USP REPERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PAYELS" CONTRACTOR IS TO INSTALL TIME" OSB ON ALL EXTERIOR WALLS ATTACHED U/ 8d NAILS SPACED 6"
- ON ALL EXTERIOR WALLS ATTACHED W BUT AND SPACED 6'
 OC. ALCAN PANEL EXCERT AND IN OC. IN THE FIELD.
 GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO NISTALL
 IN" ("IN"). GYPSUM WALL BOARD WHERE NOTED OR THE PLANS.
 FASTEN GB WITH I IA" SCREED OR IS IN" NAILS SPACED IN" OC.
 ALCANS PANEL EXCESS AND IN THE FIELD INCLUDING TOP AND
 BOTTOM PLATES.
 BRACED WALL DESIGN APPLIED IN WIND ZONES WE TO 130 MPH.
 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED
 IN ACCORDANCE WITH CHAPTER 45 OF THE NICRC 7016 EDITION.
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
 WALL INFORMATICAL
- WALL INFORMATION

NOTE:

- I. FER SECTION R6021032 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL
- ANALYSIS IS REQUIRED.

 2. SHEATH ALL EXTERIOR WALLS WITH THE OSB SHEATHING ATTACHED WITH BY NAILS AT 6" OC. ALONG PANEL EDGES AND 12" OC. IN THE FIELD.

	CHEDULE FOR AL STONE SUPPORT
LENGTH (FT.) SIZE OF LINT	
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 (IMO), SEE ARCH DUGS, FOR SIZE AND LOCATION OF OPENINGS. (LLV) • LONG LEG VERTICAL

- (LLV) * LONS LES YERTICAS.
 ENSEN & LEAR OFFINNS
 ENSEN ALL ANGLE IRONS MN 4* EACH
 SIDE NIO VISHEER TO PROVIDE BEARNA.
 FOR ALL HEADERS 81-8* AND GREATER
 N LENGTH, ATTACH STEEL ANGLE TO
 HEADER W 10* LAG SCREWS 10* OC.
 STACKEESE
- FRACER W W. LET SCREEN TO THE STAGGERED.
 FOR ALL BRICK SUPPORT & ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS W (4) 10 d NAILS FER PLY, FASTEN A 6' x 4' x 5/6' STEEL ANGLE TO (2) 2 x A 6 * 4 * x 5/6 * 9 TEEL ANGLE TO (2) ? x b BLOCKING w (2) IV T. LAG GEREUS P. 20 * OC. \$TASGERED. \$EE \$ECTION R103:821 OF THE 2/08 NGCF FOR ADDITIONAL BRICK SUPPORT INFORTATION.
 PRECAST REINFORCED CONCRETE.
- LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

Table R601.15 Minmum number of full height studs Teach fuld of headers in exterior walls

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R6003(5)		
TELLY	16	24	
UP TO 3'	100	1	
4'	2	1	
8'	3	2	
ים	5	3	
16'	6	4	

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SET 12 (LNO). ALL TREATED LUMBER TO BE 6179 % (UNO.)
 ALL LOAD BEARING HEADERS TO BE (2) 2 x
 6 (UNO.)
- WINDOW AND DOOR HEADERS TO BE WINDOW AND DOOR HEADERS TO BE SUPPORTED WITH JUNE STILD AND IN KING STUD EA END (INO.). SEE TABLE R607.15 FOR ADDITIONAL KING STUD REQUIRETED TO SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR
- FOUNDATION. ALL SQUARES TO BE (2)
 STUDS (UNO)
 FOR HIGH UND ZONES, ALL EXTERIOR WALLS
 TO BE SHEATHED WITH TIME OSB SHEATHING
 WITH JOINTS BLOCKED, AND SECURED, WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6"
- OC. IN THE FIELD.
 FOR HIGH WIND ZONES, SECURE ALL
 EXTERIOR WALL SHEATHING PANELS TO
 DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND BY BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TEP - TRIPLE STUD POCKET



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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: IES

ATTIC FLOOR FRAMING PLAN

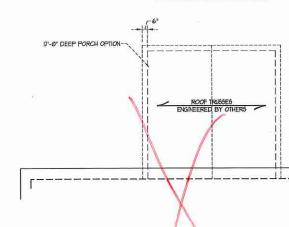
S-3



2: CAD Drawings VST-43/6VI & H Harrest Topsoch Topsock St. 10-18-17, to despite t-19 day. V16/2019 12:02:52 FM. Whitney Louisides, 15: The representative



163 SQ. FT, OF ATTIC DIVIDED BY 150 RECUIRES II SQ. FT, OF NET FREE VENTILATING AREA (MIN.).



ATTIC VENT CALCULATION:

1630 SQ. 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 6FF (UNO). CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT. FRAME DORMER WALLS ON TOP
- I. FRANE DOSTER WALLS ON TOP
 OF DOUBLE OR TRIPLE RAFFIES.
 I. HIP STLICES ARE TO BE SPACED
 A MIN. OF 8-07. FASTEN
 METIBERS WITH TINGE ROUS OF
 IZE MAILS 8 16' OZ. (TYP)
 STICK FRANE OVER-FRANED
 ROOF SECTIONS W 7 x 8 RIGGES,
 7 x 6 RAFFERS 8 16' OZ. AND
 FLAT 2 x 10' VALLEYS OR USE
 VALLEY TISSES.
- FLAT 2 x 10 VALLEY 6 OR USE VALLEY TRISSES.

 FASTEN FLAT VALLEY 6 TO RAFTERS OR TRISSESS UITH STIPSON HIDSA MURRICANE TIES 6 32° DC. MAX. PASS MURRICANE TIES THROUGH NOTCH IN ROOF SHEATING. EACH RAFTER 18 TO BE FASTENED TO THE FLAT VALLEY UITH A HIN OF (6) I'LD TOE NAILS.

 FETER TO SECTION RE0011 OF THE 2019 NORCE FOR RECUIRCED UPLINE RESISTANCE AT RAFTERS AND
- PERIOD NORCE FOR RECUIRED UPLI RESISTANCE AT RAFTERS AND TRUSSES. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

BRICK SUPPORT NOTE:

L FASTEN (2) 2 x 10 PLOCKING BETWEEN WALL STUDS W (4) Dd NAILS FER FILY, FASTEN A 6* x 4* x 5/6* 9 STEEL AYSLE TO (2) 2 x 10 PLOCKING W (9) 10* 11 LG SCREWS * 2* 0.C. STAGGERED SEE SECTION R10339.1 CF THE 209 NORCE FOR ADDITIONAL BRICK SUPPORT INFORMATION.

WHERE ROOFS (2, CFES EXCEED 1-12, NSTALL 3* x 3* x 14* 5 TEEL PLATE 5 TOPS AT 24* OC. FER SECTION R10339.21 CF THE NORTH CARCLINA MESSIPENTIAL CODE, 2016 EDITION.





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H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017

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DRAWN BY: WG ENGINEERED BY: WFB

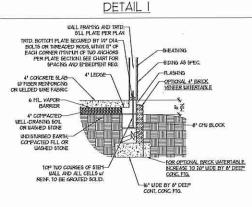
REVIEWED BY: JES

ROOF PLAN ELEVATION - A

S-4

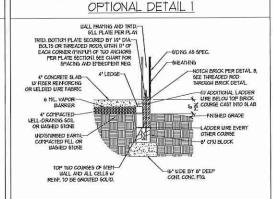
SLAB AT GARAGE DOOR DETAIL

STEMWALL DETAILS



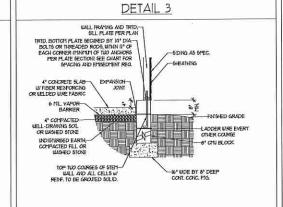
TYPICAL STEM WALL DETAIL

(w/ OPTIONAL WATERTABLE)



OPTIONAL STEM WALL DETAIL

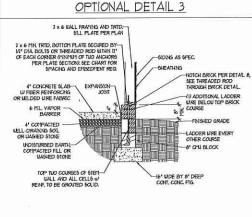
DETAIL 2 WALL FRAMING AND TRITO,— SKLL PLATE FER FLAN IRID, BOTTOM PLATE SECURED BY IA' DIA-BOLTS OR THREADED ROOS, WITHIN IB' OF EACH CORRENT (RINNIN) OF TUD ANCHORS FER PLATE SECURAL SEE CHART FOR SPACING AND EMBEDDMENT REQ. -R.ASHNG 4" LEDGE -QEEP HOLES 6 ML VAPOR-BARRER 5,8 4" COMPACTED-UELL-DRANNG BOIL OR WASHED STONE LADDER UNE EVERY OTHER COURSE -D' CHU BLOCK

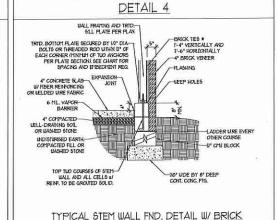


TYPICAL STEM WALL FND. W/ BRICK DETAIL

TOP TWO COURSES OF STEE WALL AND ALL CELLS W REINT, TO BE GROWTED SOLIC

TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE





OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE

DETAIL 8 1/2" ANCHOR ROD -SPACED PER TABLE MASONRY STEMWALL BRICK MASONRY - 0 6 6 6 0 0 0 OUTSIDE EDGE OF BRICK AND NOTCH BRICK & THREADED THREADED ROD THROUGH BRICK MASONRY

AND CURB @ GARAGE

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT (FEET) 4" BRICK AND 8" 4" BRICK AND 4" 12" CM 2 AND BELOW INGROUTED GROUT SOLID UNGROUTED UNGROUTED UNGROUTED GROUT SOLID UNGROUTED UNGROUTED 3 GROUT SOLID of M GROUT SOLID of 14 GROUT SOLID GROUT SOLID REBAR # 64" O.C GROUT SOLID W/ 4 GROUT SOLID W/ NOT APPLICABLE 5 REBAR # 36" O.C EBAR # 36" O.C. GROUT SOLID w/ *4 REBAR # 24" 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 MALTIPLE WITHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY,
CHART APPLICABLE FOR HOUSE FOUNDATION CALLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.

BACKFILL OF CLEAN "51 / "61 WASHED STONE IS ALLOWABLE.

4. BACKFILL OF CLEAN \$1 / \$1 WASHED STONE IS ALLOWABLE.
5. BACKFILL OF WELL DRAINED OR \$AND - GRAVEL MIXTURE SOILS (45 PSFAFT BELOW GRADE) CLASSFIED AS GROUP I ACCORDING TO INFIERD \$501.5 CLASSFICATION SYSTEM IN ACCORDINGE WITH JABLE RYSD, OF THE 2019 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.
6. PKEP \$3.6 PER RESOLVED, AND ESOLVED RESIDENTIAL CODE ARE ALLOWABLE.
6. PKEP \$4.0 PER PER PROPERTY OF THE 2019 INTERNATIONAL RESIDENTIAL CODE. MINIMAM 24" LAP SFLICE LENGTH.
1. WHERE RECUIRED, FILL BLOCK SOLID WITH TYPE "5" MORTAR OR 3000 PSI GROUT, USE OF "LOW LET GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5" AND GREATER.

AN	ICHOR SPACING AND	D EMBEDMENT
WIND ZONE	120 MPH	130 MPH
5PACING	6'-0" O.C.	4'-0" O.C.
EMBEDMENT	11	IS" INTO MASONRY 1" INTO CONCRETE

DATE: NOVEMBER 14, 2018

DEAWN BY-IST

ENGINEERED BY: IES

D-1 FOUNDATION DETAILS





 \rightarrow

ED WIND E DESIGN DETAILS ULTIMATE I MPH I FOUN 130 MPH. 20

GENERAL WALL BRACING NOTES:

- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2016 NC RESIDENTIAL BUILDING CODE (NORC).
- TABLES AND FIGURES REFERENCED ARE WITH CHAPTER'S OF THE 2016 N. RESIDENTIAL BUILDING COLD HUMAN.

 1. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC. FOR ADDITIONAL INFORMATION AS NEEDED.

 3. SEE STRUCTURAL SHEETER FOR BRACED WILL LOCATIONS, DIPENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUPMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIRETEMENTS.

 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION RS-02/10/3 UNLESS NOTED COLDED

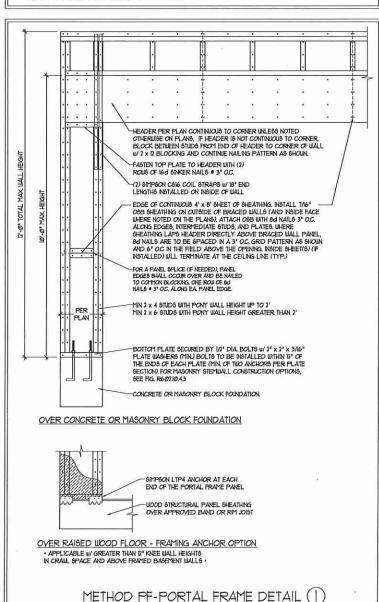
- OTHERWISE

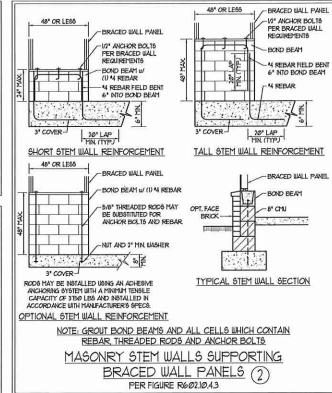
 ALL EXTERIOR AND INTERIOR WALLS TO HAVE IN "GYPSUM" INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM" TO BE FASTENED PER TABLE RIGIDIS.

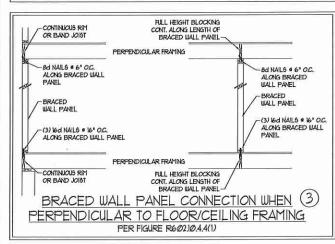
 ALL EXTERIOR AND INTERIOR WALLS TO HAVE IN "GYPSUM" INSTALLED, WHEN NOT USING METHOD. THE FASTENED PER TABLE RIGIDIS.

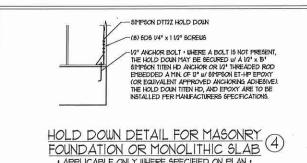
 C. G. USP RETERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PARELS" WALL BRACKING METHOD. THE "OSB SHEATHING IS TO BE INSTALLED ON WHEN HE TO GO TO THE "CONTINUOUS SHEATHING IS TO BE ASSOCIATED WAS CONTINUOUS AND AND ASSOCIATED AND BY "CONTINUOUS SPACED" OF AND EXAMPLE PLATES AND RIFE RELD (WHO).

 TO BRETERS TO THE "GYPSUM" BOARD" WALL BRACKING TENTIOD. IN" OTHIN GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SHEEP OF THE BRACKED WALL BOARD IS TO BE INSTALLED ON BOTH SHEEP OF THE BRACKED WALL FASTENED WITH 144" SCREWS OR IS 150" NAILS SPACED 1"OC. ALONG PAREL EDGES INCLIDING TOP AND BOTTOM PLATES AND INTERFEDIATE WEPPORTS (WAO). YERPY ALL FASTENER OPTIONS FOR IT AND STRUCTURE SASTENED. 5/8" GYP9UM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R10235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R6003(I). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- SEGUIRED BRACED HIAL I LENGTH FOR EACH SIDE OF THE CIRCUMSCRIPED SECTIONS F ARE NITERED ATED FOR TABLE REGIT, 103, METHOD CS-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH

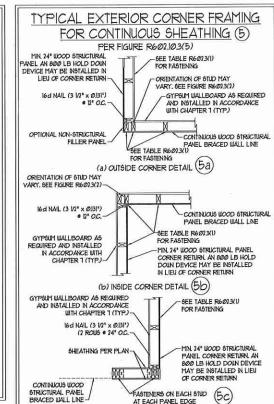






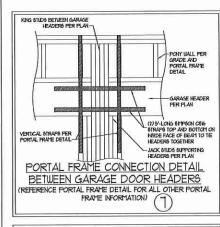


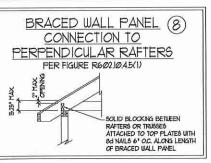
APPLICABLE ONLY WHERE SPECIFIED ON PLAN .

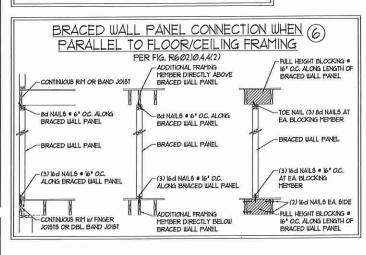


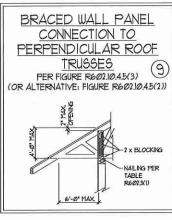
(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)







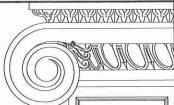


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SATE, KOVEMBER 14, 2018 CALE: 1/4" = 1'0" DRAWN BY IST

ENGINEERED BY: JST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL



ZO O = 22 3 0 0 Z OL \$ 00 € WAN 300

MIC

SPEED WIND STAILS DESIGN W ULTIMATE D MPH ULTI BRACING N 130 ALL MPH. W/ 20

GENERAL NOTES

- ENGINEER'S SEAL APPLIES CALY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CARCLINA RESIDENTIAL CODE (NORC), 2018 EDITION, PLUS
 ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER 18 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 LORK. 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, 2010 EDITION (R3/01.4 R3/01.1)

DESIGN CRITERIA	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)	
ATTIC WITH LIMITED STORAGE	20	10	L/140 (L/360 W BRITTLE FINISHES	9)
ATTIC WITHOUT STORAGE	10	10	L/36Ø	
DECK5	40	Ø	L/36Ø	
EXTERIOR BALCONIES	40	Ø	L/36Ø	
FIRE ESCAPES	40	10	L/36Ø	
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø	
PASSENGER VEHICLE GARAGE	50	Ø	L/360	
ROOMS OTHER THAN SLEEPING ROOM	40	100	L/36Ø	
SLEEPING ROOMS	30	lø	L/36Ø	
STAIRS	40	10	L/360	
WND LOAD	(BASED ON TABLE R3/012)	4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pa	20 (PSF)			

- I-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- 4. FOR IIS AND 120 MPH WIND ZONES FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 OF THE NORC 2018 EDITION. FOR ISO MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NORC, 2010 EDITION
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION YALVES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2016 EDITION.

FOOTING AND FOUNDATION NOTES

- I. 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 PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REPROVED. FILL MATERIAL, SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSINE WINFORM SUPPORT OF THE SLAB, AND DOKE OFFI WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE FLACED. A BASE COURSE IN OT REQUIRED WHERE A CONCRETE SLAB IS NOT STALLINGED WHEN EACH CONTROL THE NOTICE OF SAND SHALL BE FLACED. AS GROUP I, ACCORDING TO THE WITED SOIL CLASSIFICATION SYSTEM IN ACCORDING OF SAND SHALL MATURE SOILS CLASSIFICATION SYSTEM IN ACCORDING TO THE WITED SOIL CLASSIFICATION SYSTEM IN ACCORDING TO THE WITED SOIL CLASSIFICATION SYSTEM IN ACCORDING TO THE WORK, 2016 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - I" DEEP CONTROL JOINTS ARE TO BE SAILED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R40/2 OF THE NORC, 2016 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM ASIS GRADE 60. WELDED WIRE FABRIC TO BE ASTM ASIS. MAINTAIN A MINIMIM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTNAS AND 1 1/2" IN SLABS. FOR POWERD CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL ONT BE LESS THAN 11/2" CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR "5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR "6 BARS OR LARSER
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY INVITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 8 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE COOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASCNRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION READ OF THE NORC, 1/20 EDITION OR IN ACCORDANCE WITH ACI 30, ACI AT 1866-A OR ACE 550/ASCE 51/176 4/20. MASCNRY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE READ-LIV), REALIV2), REALIV2), OR REALIV4 OF THE NORC, 1/20 EDITION, CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE READ-LIV). REALIV2, REALIV2, REALIV4 OF THE READ-LIV2 OF THE NORCE ARE TO REALIV4 OF THE REALIVE REALIVE OF THE NORCE ARE TO REALIVE OF WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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FRAMING NOTES

- L. ALL FRAMING LUMBER SHALL BE 12 SFF MINIMUM (Fb = 815 PSI, FV = 315 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL
- 2. LAMNATED VENEER LUMBER (LYL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Ho +2600 PSI, FV + 285 PSI, E + 19000000 PSI. LAYINATED STRAYD LUMBER (LGL.) SHALL HAVE THE FOLLOWING MINIMAN PROPERTIES. TO - 2325 FGI, FY - 320 FGI, E - 55,00000 FGI.
 PARALLEL STRAYD LUMBER (FGI, JUP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMAN PROPERTIES. FC - 25,000 FGI, E - 100,00000 FGI. PARALLEL STRAYD LUMBER (PSL) MORE THAY T' DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROFERTIES: FC . 2900 PSI, E . 20000000 PSI. INSTALL ALL CONNECTIONS FER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36 ASTM A36 PLATES AND BARS: HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B

ASTM A53, GRADE B, TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARNS LENGTH OF 3 1/2" AND FULL FLAYGE WIDTH (INO). PROVIDE SOLID BEARNS FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLAYGE TO EACH SUPPORT AS FOLLOUS (UNO)

(2) 1/2" DIA x 4" LONG LAG SCREUS A WOOD FRAMING B CONCRETE (2) I/2" DIA x 4" UFDGE ANCHORS (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (FULLY GROUTED)

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 7X NALLER IS SECURED TO THE TOP OF THE STEEL BEAM of (2) ROUS OF SELF TAPPING SCREUS ** IS** O.C. OR (2) ROUS OF 1/3** DIA**ETER
BOLTS ** IS** O.C. F** 1/3** BOLTS ARE USED TO FASTEN THE NALLER, THE STEEL BEAM SHALL BE FARRICATED of (2) ROUS OF 9/6* DIA**ETER

- 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 BEARNS HEADERS TO CONFORM TO TABLE R6003(1) AND R6003(2) OF THE NORC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UND), WHICHEVER 16 GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARNS FORT (UNO). INSTALL KING STUDS PER SECTION R602.15 OF THE NORTH
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR RULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAYS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I IV MINIMIT BEARRY (INO). ALL BEAYS OR GIRDER TRUSSES PERFENDICULAR 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 I/A" DIAMETER BOLTS (ASTM AS/91) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECFIED ON THE PLANS. ALL DEVIATIONS ARE TO
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING
- IL 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 BETILEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 2. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MNIPLM EMBEDMENT AT BIDES FOR BRICK SUPPORT (UND). FOR ALL HEADERS 8'-8" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5//6" STEEL ANGLE
 TO HEADER WITH VI" LAG SCREUS AT 12" 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 U/ (4) 12d NAILS EA FLY BETWEEN WALL STUDS WITH (2) ROUS OF VI" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03.82] OF THE NORC, 2018 EDITION
- B, 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 IZE 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-PRAMED BOOF 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 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON HA OR LITER UPLET CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE IS SECTION OF SIMPSON COIL STRAPPING WITH (8) BUT HOS NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



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SPEED MPH 20

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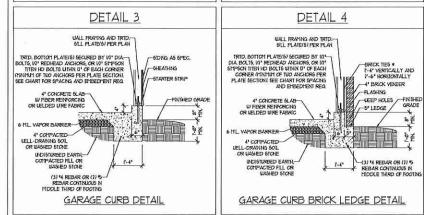
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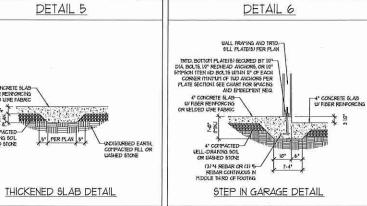
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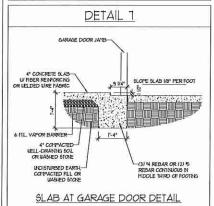


S-0 STRUCTURAL NOTES

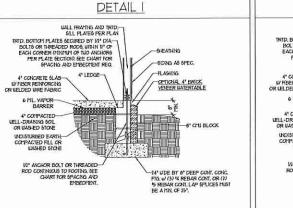
GN WIND NOTES DESIGN - 130 MPH ULTIMATE DESIC STANDARD STRUCTURAL





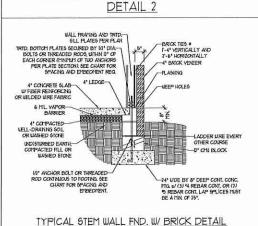


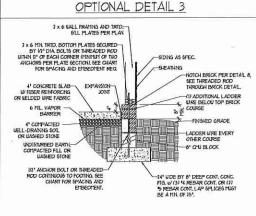
STEMWALL DETAILS



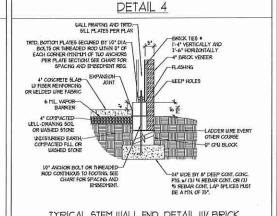
UALL FRAMING AND TRID.-SILL PLATES FER PLAN IRID, BOTTOM PILATES SECURED BY M* DIA-BOLTS OR THREADED RODS, WITHIN B* OF EACH CORNER (TINITAL) OF TWO ANCHORS FER PILATE SECTION! SEE CHART FOR SPACING AND EMBEDYENT REQ. BRICK PER DETAIL 8, 4" LEDGE CONCRETE SLAS 6 ML VAPOR-BARRER FNSIED GRADE OR UASIED STONE -LADDER URE EVERY OTHER COURSE -6' C'N PLOCK 74" LIDE BY 8" DEEP CONT. COV.C. FTG. w/ (3) "4" REBAR CONT. OR (7) "5" REBAR CONT. LAP SPLICES HUST BE A MIN. OF 75". CHART FOR SPACING AND EMBEDMENT.

TYPICAL STEM WALL DETAIL (W/ OPTIONAL WATERTABLE)

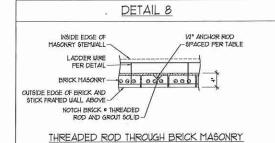




OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE



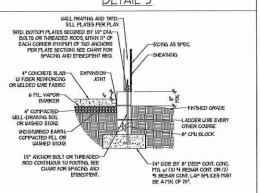
TYPICAL STEM WALL FND. DETAIL W/ BRICK AND CURB & GARAGE



OPTIONAL DETAIL I

OPTIONAL STEM WALL DETAIL

DETAIL 3



TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE

	ANCH	OR
	WIND ZONE	
	SPACING	
	EMBEDMENT	
NE EVERY NSE CX	-	
1. CO4C. . OR (7) CES MIST		

MASONRY STEMWALL SPECIFICATIONS

WALL HEIGHT	MASONRY WALL TYPE				
(FEET)	8" CMJ	4" BRICK AND 4" CMJ	4" BRICK AND 8" CMJ	12" CHAJ	
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
4	GROUT SOLID	GROUT SOLID u/ 4 REBAR # 48" O.C.	GROUT SOLID	GROUT SOLID w/ *4 REBAR # 64* O.C.	
ь	GROUT SOLID w/ *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/ *4 REBAR # 24" O.C.	NOT APPLICABLE	GROUT SOLID u/ 14 REBAR # 24" O.C.	GROUT SOLID w/ 14 REBAR # 64" O.C.	
1 AND GREATER	ENC	INFERED DESIGN BA	SED ON SITE CONDITI	ONS	

STRUCTURAL NOTES:

WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.

TIE MULTIPLE WITHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY, CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE

CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT CONTYCH TO HOUSE.

BACKFILL OF CLEAN "51 / "61 WASHED STONE IS ALLOWABLE.

BACKFILL OF WELL DRANED OR SAND - GRAVEL MIXTURE SOULS (45 PSF.FT BELOW GRADE) CLASSFIED AS GROUP! ACCORDING TO WHIFLD SOULS CLASSFICATION SYSTEM IN ACCORDANCE WITH TABLE RAGS), OF THE 7018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

PREP SLAB PER 150-621 AND 150-622 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE.

MINIMAT 24" LAP SPLICE LENGTH.

MINITATI 14" LAP SHILCE LENGHE.

LOCATE REBAR IN CENTER OF POUNDATION WALL.

WHERE REGUIRED, 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

ANCH	IOR SPACING AND EMBEI	DMENT - STEM WALL
WIND ZONE	140 MPH	15Ø MPH
5PACING	1'-9' O.C w/ DOUBLE SILL PLATE w/ 2" x 2" x 1/8" WASHERS	I'-6" O.C w/ DOUBLE SILL PLATE w/ 2" x 2" x I/8" WASHERS
EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 1" MIN CONCRETE EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W 1' MIN. CONCRETE EMBEDMENT

ANCHO	OR SPACING AND EMBED	DMENT - MONO SLAB
WIND ZONE	140 MPH	ISØ MPH
SPACING	6'-0" O.C. u/ DBL. SILL FLATE OR I'-9" O.C. u/ 6!NGLE SILL PLATE u/ 2" x 2" x 1/8" WASHERS	6'-0" O.C. u/ DBL. SILL PLATE OF I'-6" O.C u/ SINGLE SILL PLATE u 2" x 2" x 1/8" WASHERS
EMBEDMENT	ą.	7"

DATE: NOVEMBER 14, 2018 SCALE NTS DRAWN BY JST

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D-1 FOUNDATION DETAILS



ZO Z 9 0 RING RING 110+ EALEIGH, 919-FAX: (919) 72 ENGINE 606 WADE AVE, SUT PHONE, 619) 789

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SPEED MIND E DESIGN DETAILS ULTIMATE I MPH I 150] MPH.

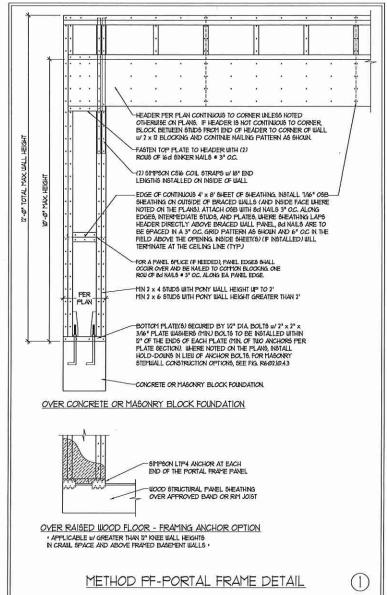
ol details 10-18 dwg 11/14/2018 1.00 24 FM. Whitney Faulkiner, ES. Thompson Engineering In-

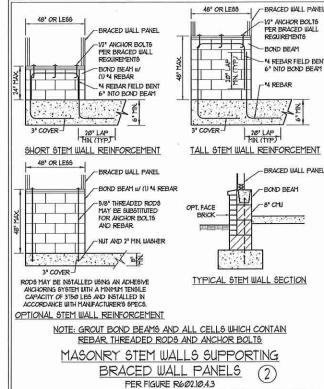
GENERAL WALL BRACING NOTES:

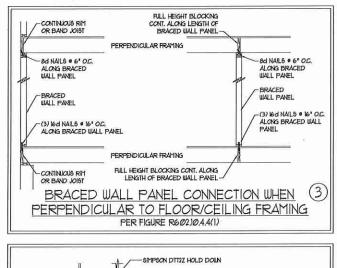
- L WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 20/8 NC RESIDENTIAL BUILDING CODE (NORC). TABLES AND FIGURES REFERENCED ARE FROM THE 20/8 NCRC.

 7. SEE THIS BEET FOR BEREAL DETAILS, REFER TO THE 20/8 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.

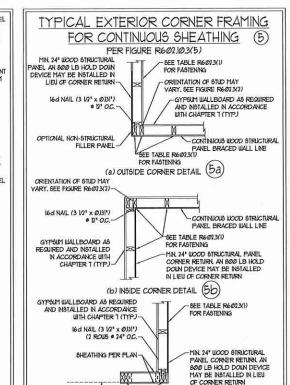
 3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, AND ANY 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH 1/16" OSB WITH BLOCKING AT ALL SHEATHING JOINTS AND 8d NAILS
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH TIME OBS WITH BLOCKING AT ALL SHEATHING JOINTS AND BUT A





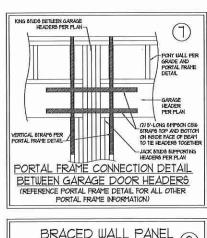


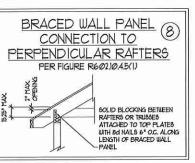


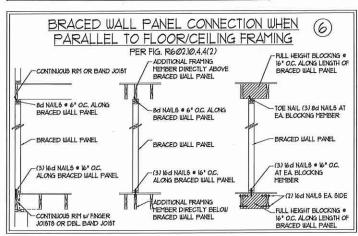


CONTINUOUS WOOD

STRUCTURAL PANEL BRACED WALL LINE-



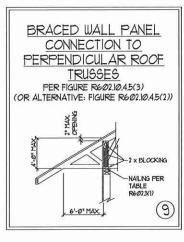




ASTENERS ON EACH STUD 50

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

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)



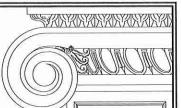
DATE NOVEMBER 14 2018 SCALE: 1/4" - 1'0" DRAWN BY: IST

NOINEERED BY: JST

D-2 BRACED WALL NOTES AND DETAILS

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> LU

SPEED WIND DESIGN W ULTIMATE D MPH ULTIP BRACING N 150 ALL MPH. W/ 9

GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES HLOOKS, WALLS, BEAMS HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC) 2018 EDITION PLUS ALL LOCAL CODES AND REGULATIONS. THE STRICTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION PEANS, 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
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R3014 R3017)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	Ø	L/140 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	Ø	L/36Ø
DECKS	40	lo e	L/360
EXTERIOR BALCONIES	40	NO.	L/36Ø
FIRE ESCAPES	40	lø.	L/36Ø
HANDRAIL SAGUARDRAILS	200 LB OR 50 (PLF)	10	LB60
PASSENGER VEHICLE GARAGE	50	W .	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	lø.	L/36Ø
SLEEPING ROOMS	30	10	L/36Ø
STAIRS	40	10	L/36Ø
WND LOAD	(BASED ON TABLE R3012)	4) WIND ZONE AND EXPOSURE)	(
GROUND SNOW LOAD: Pa	2Ø (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR 115 AND 120 MIPH WIND ZONES, FOUNDATION ANCHORAGE 15 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 COYPLIANCE 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 BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE FERMITTER OF THE BUILDING BRYELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REPROVED. FILL MATERIAL SHALL BE REE 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 EXCEPD 24° FOR CLEAN SAND OR GRAVEL A 4° THICK BASED CONSECONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE FLACED. A BASE COURSE IN NOT RECUIRED INVERE A CONCRETE & AB IS NATALLED ON HELL DRANED OR SAND GRAVEL MIXTURE SOILS OF ASSETS AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION
- PROPERLY DEWATER EXCAYATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF
 APPLICABLE, 3/4* I* DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO D HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NORC. 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASIM A615 GRADE 60 LELDED LINEE FABRIC TO DE ASTIM AUS. MANTAIN A MINIMAT CONCRETE COVER BROWN RENDORCH'S STEEL OF 3" N POOTINGS AND I IV" IN SLABS, FOR POURED CONCRETE WALLS, CONCRETE COVER FOR RENDORCH'S STEEL HEASURED FROM THE INSIDE FACE OF THE WALL SHALL SHALL
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM
- 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 DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 8 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONR
- 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 MASCARY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION RADA OF THE NORG, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NOMA TROB-A OR ACE 520/ASCE 5/TIYS 402. MASCARY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RADALIXI, RADALIXI3, RADALIXI3, OR RADALIXI4 OF THE NCRC 7018 EDITION. CONCRETE FOUNDATION IIIALLS ARE TO BE REINFORCED FER TABLE R404,1/15) OF THE NORC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED

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FRAMING NOTES

- L ALL FRAMING LUMBER SHALL BE 12 SFF MINIMUM (Fb = 815 PS), Fv = 315 PS), E = 16000000 PS)) UNLESS NOTED OTHERUISE (UNO). ALL REATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 PS), Fv =115 PS), E = 16000000 PS)) UNLESS NOTED OTHERUISE (UNO).
- LAMNATED VENEER LIMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Rb *2600 PSI, Fy * 265 PSI, E * 19000000 PSI. LAMINATED STRAND LUMBER (1.51.) SHALL HAVE THE FOLLOWING MINIMAL PROPERTIES. HS = 2335 FGI, FY = 310 FGI, E = 85,00000 FGI.
 PARALLEL STRAND LUMBER (PSI.) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMAL PROPERTIES. FC = 25,000 FGI, E = 18,000,000 FGI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMM PROPERTIES: Fo = 2900 PSI, E = 20000000 PSI, INSTALL ALL CONSECTIONS PER MANIFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36

HOLLOW STRUCTURAL SECTIONS: ASTM A5000 GRADE B

ASTM A53, GRADE B, TYPE E OR S

4 STEEL BEAMS SHALL BE SUPPORTED AT EACH FIND WITH A MINIMUM BEARING LENGTH OF 3 I/2* AND FULL FLANGE WIDTH (UNO), PROVIDE SOLID BEARN'S FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS

A WOOD FRAMING (2) 1/2" DIA x 4" LONG LAG SCREUS B. CONCRETE (2) 1/2" DIA x 4" WEDGE ANCHORS

C. MASONRY (FULLY GROUTED) (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOO NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 7X NAILER IS SECURED TO THE TOP OF THE STEEL BEAM W (2) ROUS OF SELF TAPPING SCREUS # 16" O.C. OR (?) ROUS OF 1/1" DIAMETER
BOLTS # 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER THE STEEL BEAM SHALL BE FABRICATED W (2) ROUS 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 R6/02.7(1) AND R6/02.7(2) OF THE NORC, 20/8 EDITION OR BE (2) 2 x 6 WITH (1) 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 SUPPORTED WITH (2) STUDS AT EACH BEARNS FONT (UNO). INSTALL KING STUDS FER SECTION R602.15 OF THE NORTH
- 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 FERFENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I VI? MINIMUM BEARNS (INO.), ALL BEAMS OR GIRDER TRUSSES FERFENDICULAR 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
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2* DIAMETER BOLTS (ASTM ASØT) WITH WASHERS PLACED AT THREADED END OF BOLT.
 BOLTS SHALL BE SPACED AT 24* CENTERS (MAXIMM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2* EDGE DISTANCE), WITH (2) BOLTS
- 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.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING RITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- IL PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS, PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR RUSSES 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 VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6' x 4' x 5//6" STEEL ANGLE WITH 6" MINIMIM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UNO), FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH ID* LAG SCREUB AT ID* O.C. STAGGERED FOR BRICK BUPPORT. FOR ALL BRICK BUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W/ (4) I'D IN NAILS EA FLY BETWEEN WALL STUDS WITH (2) ROUS OF IZ* LAG SCREUB AT 12" OC STAGGERED AND IN ACCORDANCE WITH SECTION R103.821 OF THE NORG. 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 ROUS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- 14. FOR TRUSSED ROOFS. FRANE DORN'ER WALLS ON TOP OF 2 x 4 LADDER FRANING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRANE OVER-FRANED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 YALLEYS (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 LIBBY UPLIFT 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) BUT HOS NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



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SPEED WIND ULTIMATE DESIGN V D STRUCTURAL NO 150 MPH UTANDARI 150 MPH 40

SCALE: 1/4" - 1'0"

DRAWN BY: IES

ENGINEERED BY, IST

S-0 STRUCTURAL NOTES

