

J.S.THOMPSON ENGINEERING, INC 600 WADEAVE, SUITE 104 KALEIGH, NC 27609 FRONE (0.19) 786-9919 FAX (9.19) 786-9919 N.C. LICENSENO, C.1735



H&H HOMES, INC. SOUTHPORT

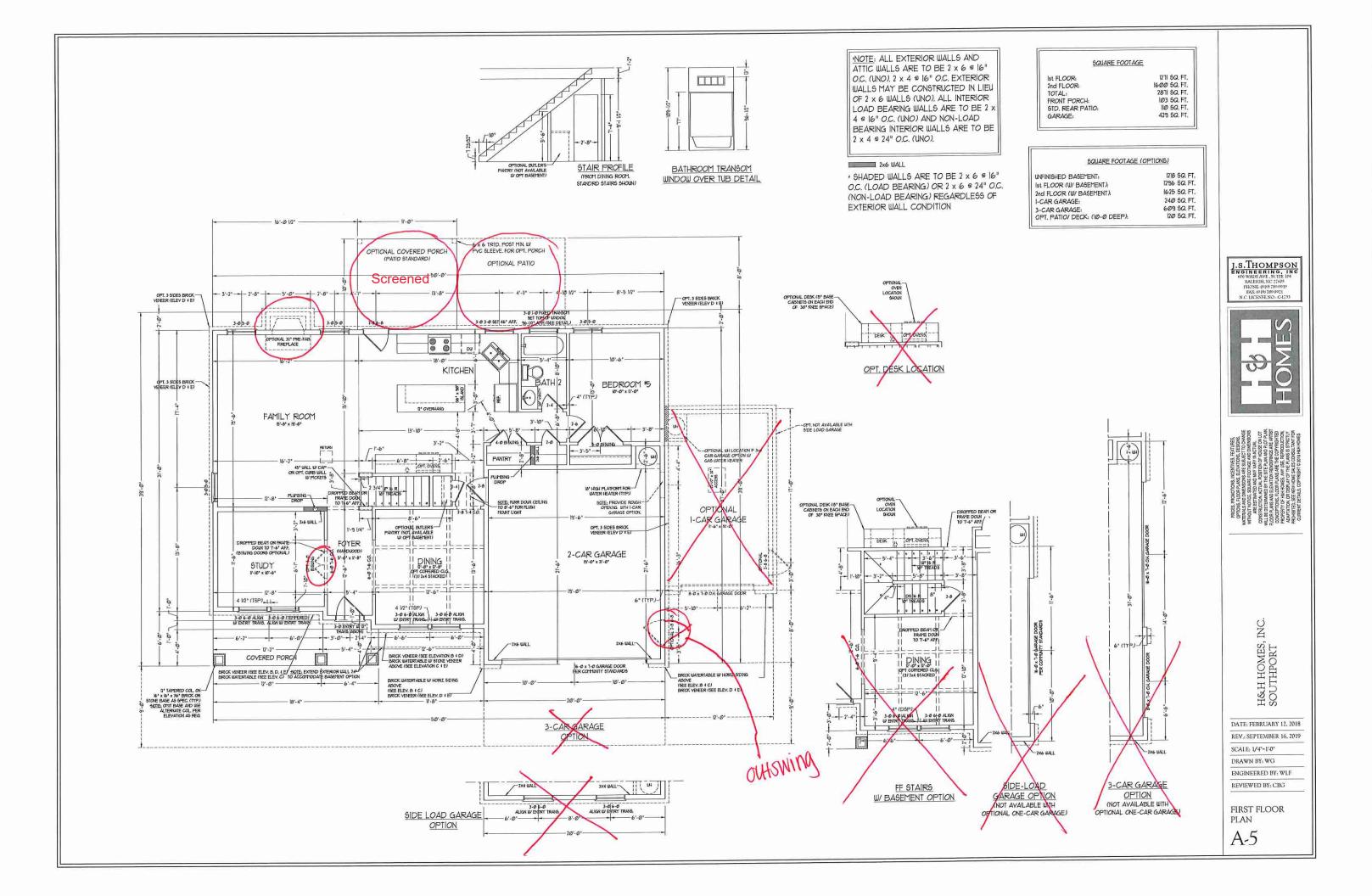
DATE: FEBRUARY 12, 2018 REV.: SEPTEMBER 16, 2019

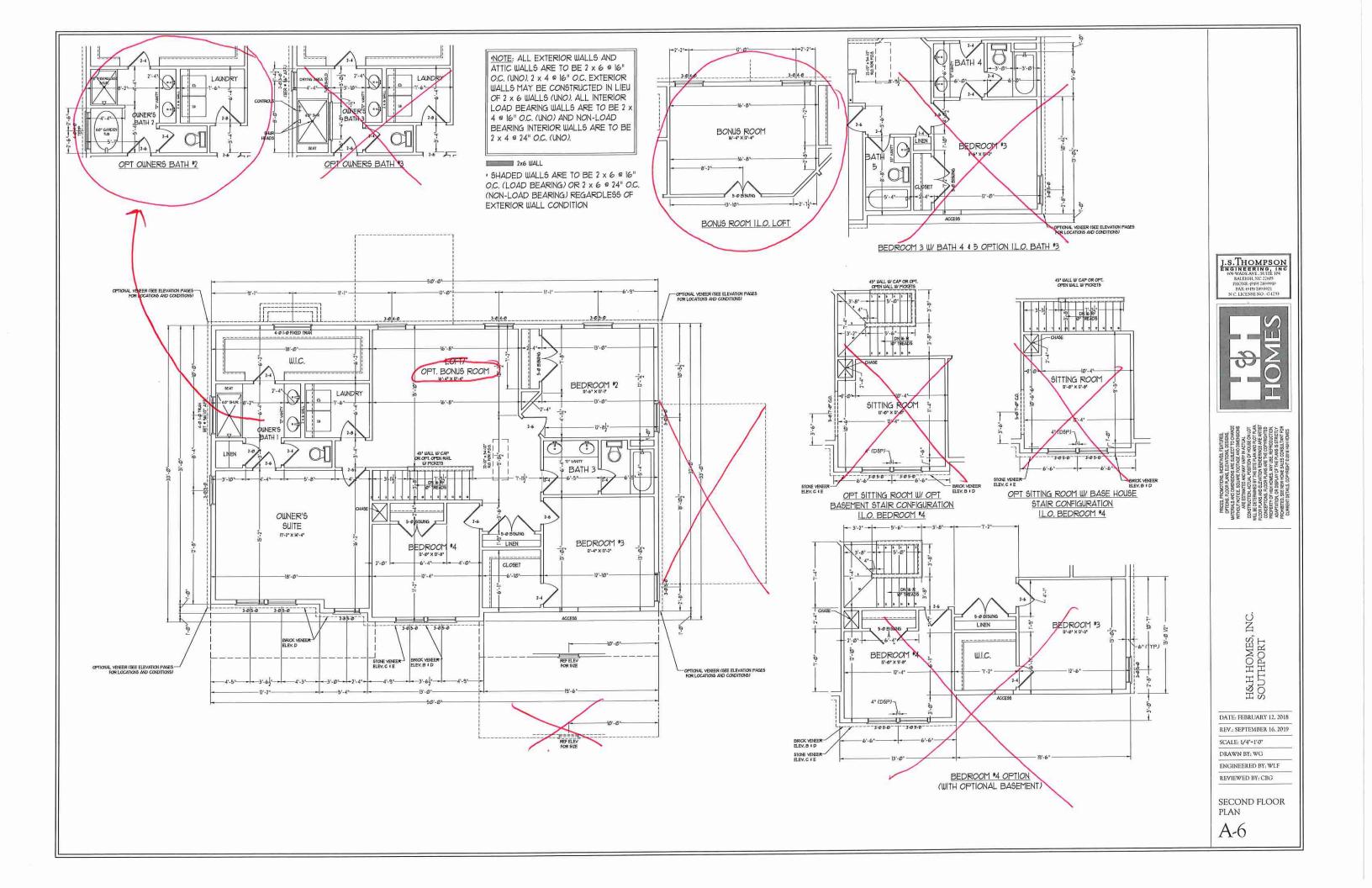
SCALE: 1/4"=1'-0" DRAWN BY: WG

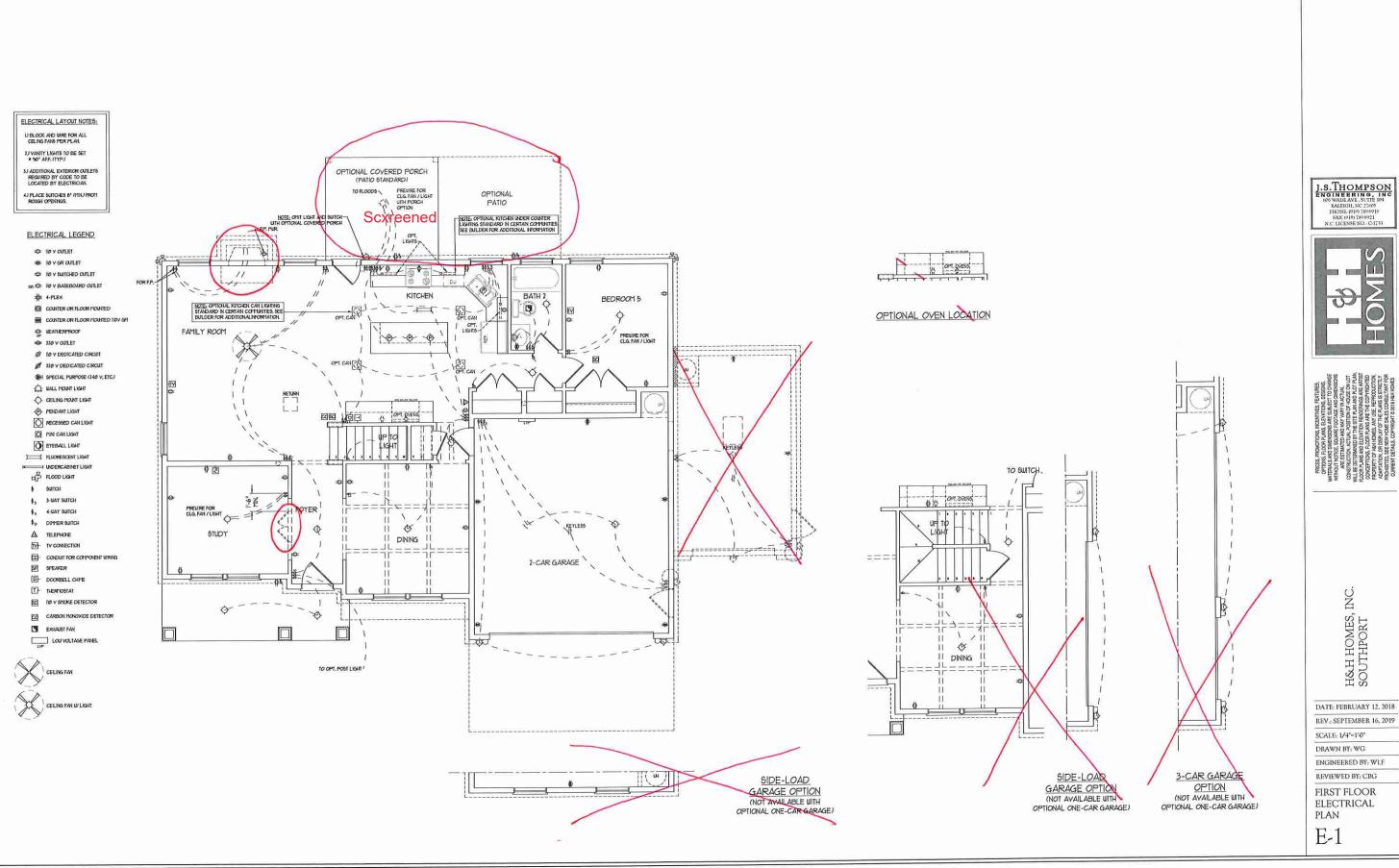
ENGINEERED BY: WLF
REVIEWED BY: CBG

SLAB INTERFACE PLAN

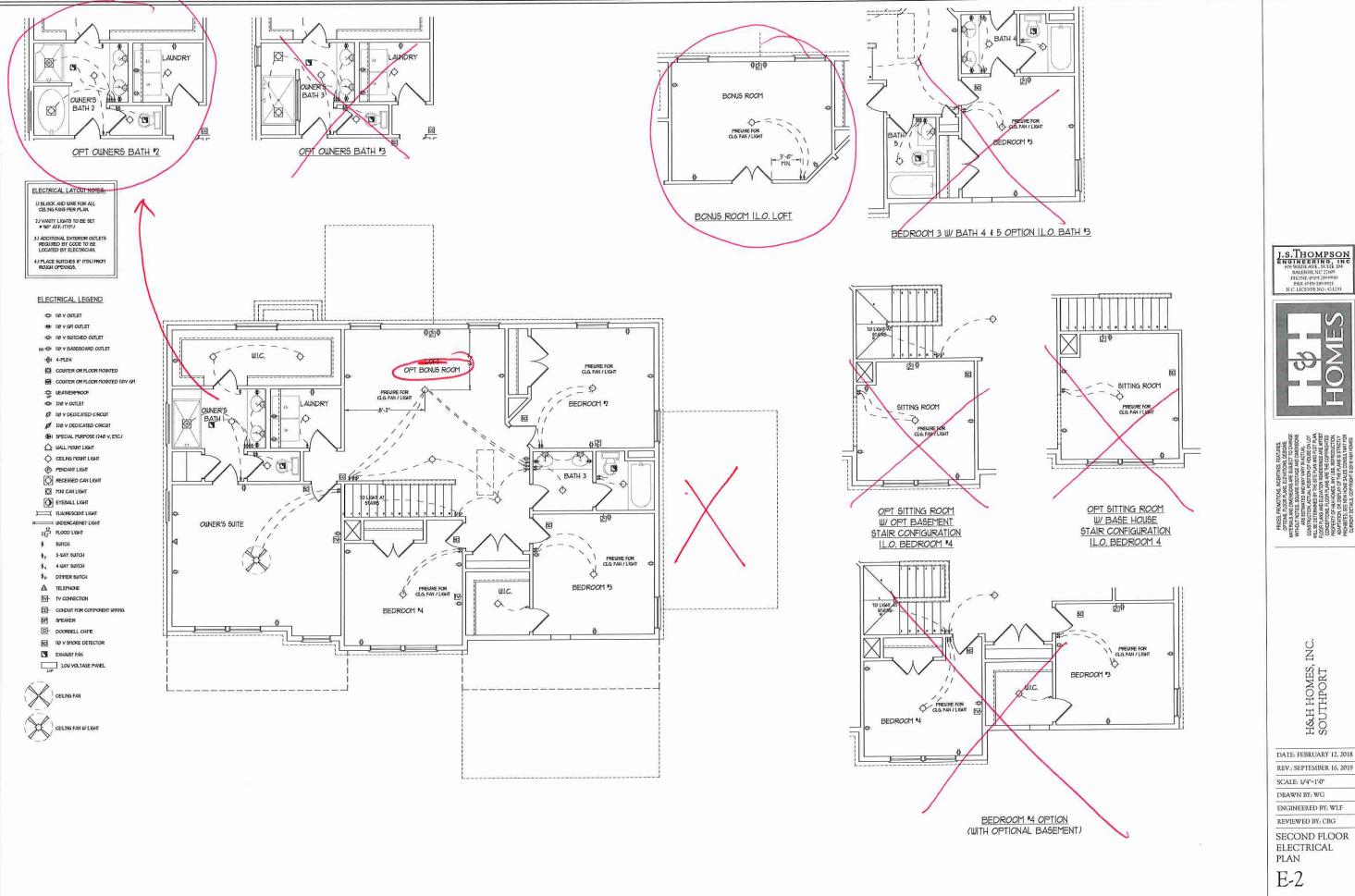
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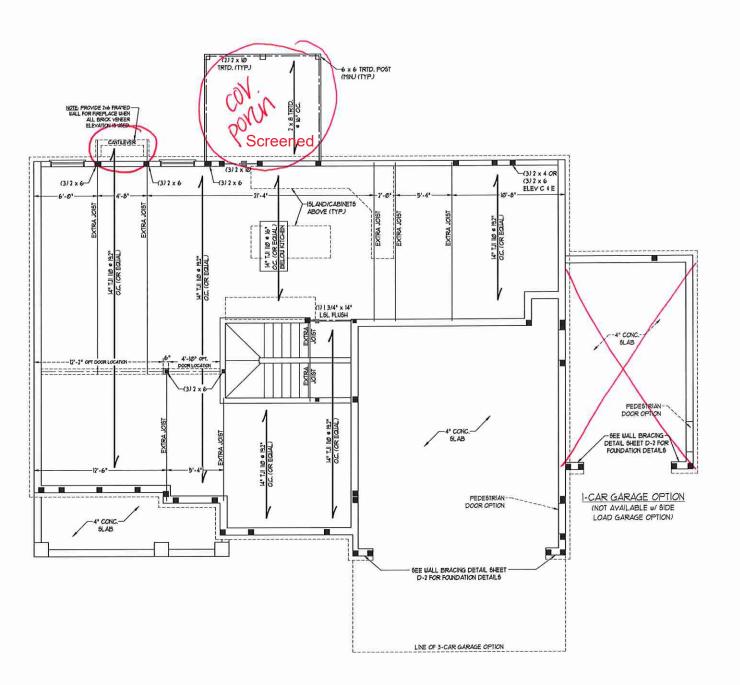








DATE: FEBRUARY 12, 2018 REV.: SEPTEMBER 16, 2019



HEADER SPAN TABLE	
HEADER SIZE	MAX SPAN
(3)2 x 8	4'-0"
(3) 2 x 10	4'-9"
(3) 2 x 12	5'-6"

NOTE:

- L TABLE ONLY APPLIES TO HEADERS LOCATED WITHIN DOOR LOCATIONS INDICATED ON PLAY.

 2. (3) JACKS ARE REGUIRED AT EACH END OF

	CHEDULE FOR AL STONE SUPPORT
LENGTH (FT.)	SIZE OF LINTEL
UP TO 4 FT.	L 3 1/2 × 3 1/2 × 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:

- RICK SUPPORT NOTES.

 LINTEL SCHEDULE APPLIES TO ALL
 OFENNISS IN BRICK YDIVER (UNO), SEE
 ARCH DUIGS, FOR SIZE AND LOCATION OF
 OFENNISS,
 (ILLY) = LONG LEG VERTICAL
 LENGTH = CLEAR OFENNIS
 FIBEO ALL ANGLE IRONS HIN. 4" EACH
 SIDE INTO VENEER TO FROVIDE BEARNIS,
 FOR ALL HEADERS 8"-0" AND GREATER
 IN LENGTH, ATTACH STEEL ANGLE TO
 HEADER WIN' LAG SCREWS = 12" O.C.
 STAGGERED.
- HEADER W 1/2" LAS SCREUS * 12" O.C.
 STAGGERED.
 FOR ALL BRICK SUPPORT * ROOF LINES,
 FASTEN (7) 7 × 10 ELOCKNOS BETUEEN
 STUDS & (1/ 10/ AMLIS FER P.Y., FASTEN
 A 6" x 4" x 5/6" STEEL ANGLE TO (7) 7 x
 10 ELOCKNOS & (7) 1/2" LAS SCREUS * 0"
 O.C. STAGGERED. SEE SECTION RIO3231
 CF THE 20/9 NCRC FOR ADDITIONAL
 BELOCK SUPPORT ANDOMATION
- BRICK SUPPORT INFORMATION.
 PRECAST REINFORCED CONCRETE
 LINTELS ENGINEERED BY OTHERS MAY BE
 USED IN LIEU OF STEEL LINTELS.

NOTE:

BCI 45006-18 JOISTS MAY BE USED IN LIEU OF TJI 110 JOISTS AT THE DEPTH AND SPACING NOTED ON THE FLAN.

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R6/02/0 OF THE NORC
- 2018 EDITION. C5-USP REFERS TO "CONTINUOUS SHEATHING WOOD
- CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD
 STRUCTURAL PANELS" CONTRACTOR IS TO NSTALL THE" O'ES
 ON ALL EXTERIOR WALLS ATTACHED W 8d NAILS SPACED 6"
 OC. ALCMG PANEL ECKES AND B" OC. IN THE FILD.
 OF STREETS TO "GTYBUT BOARD" CONTRACTOR IS TO INSTALL
 NO" (TINN) GTYPSUT WALL BOARD WHERE NOTED ON THE FILANS,
 FASTEN GB WITH I IM" SCREWE OR I SIO" NAILS SPACED "I" OC.
 ALCMG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND
 DOTTOM FLATES.
 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 120 MPL
 OF WITH THE TAKES AND THE PROPERTY OF THE PROPERTY O
- 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 WALL INFORMATION

NOTE:

- L FER SECTION RE0010046 OF THE 20'0 NORC, THE AMOUNT OF BRACING REQUIRED ON THE WALK OUT BASETENT WALLS EXCEEDS THE AMOUNT OF BRACING ON THE WALL ABOVE MALTIPLIED BY A FACTOR OF 18.

 SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND BY OCO JUSTE BELLO.
- 12" O.C. IN THE FIELD.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 72 SFF (LNO).

 ALL LOAD BEARING HEADERS TO BE (3) 2 x (b) (LNO).

 SOUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS
- FOUNDATION, ALL SQUARES TO BE (7) STUDS UNO.

 INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE FLAMS.

 STEP POURED FOUNDATION WALL DOWN TO 2 X
- 6 . 16" O.C. STUD WALL AS GRADE PERMITS. FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 176" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. N THE FIELD.
- THE FIELD.

 FOR HIGH UND ZORES, SECURE ALL EXTERIOR

 WALL SHEATHING PANELS TO DOUBLE TOP

 FLATES, DANDS, JOISTS, AND GIRDERS WITH

 CI) ROUS OF EAI HALL STANGERED AT 3" OC.

 PANELS SHALL EXTEND IN BEYOND

 CONSTRUCTION JOINS AND SHALL OVERLAP

 GIRDERS AND DOUBLE SILL PLATES THEIR

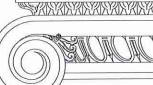
 RILL DEFTH.

 ALL A x 4 FOSTS SHALL BE ANCHORED TO

 JASSA W. SINESON, BIJLAL POST BASES (OR
- ALL 4 x FOSTS SHALL BE ANCORED TO
 SLABS W SHIPSON ABUAL POST BASES (OR
 EQUAL) AND 6 x 6 FOSTS W ABU66 FOST
 BASES (OR EQUAL) (NO.) ALL 4 x 4 AND 6 x 6 FOSTS TO BE INSTALLED WITH 100 LB
 CAPACITY WHITE CONNECTORS AT TOP (NO.)
 FOR FIBERGLASS, ALIMININ, OR COLUM BYG.
- FOR HERNELASS, ALUMINUT, OR COLUMN PICK.
 BY OTHERS, SECURE TO SLAB W (2) THETAL
 AVALES USING 3" COXC. SCREUS, FASTEN
 AVALES TO COLUMNS W I'M. THROUGH BOLTS
 W NITS AND WASHERS, LOCATE ANKLES ON
 OPPOSITE SUPES OF COLUMN, THROUGH
 BOLTS MIST BE INSTALLED PRIOR TO SETTING COLUMN
 REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE R602.15 MINIMUM NUMBER OF FULL HEIGHT STUDS

	AT EACH END	OF HEADERS IN E	XTERIOR WALLS	
ĺ	HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R6013/5)		
	(PEE)	16	24	
Ī	UP TO 3'	1	1	
	4'	2	1	
	8'	3	2	
	12'	В	3	
	16'	6	4	



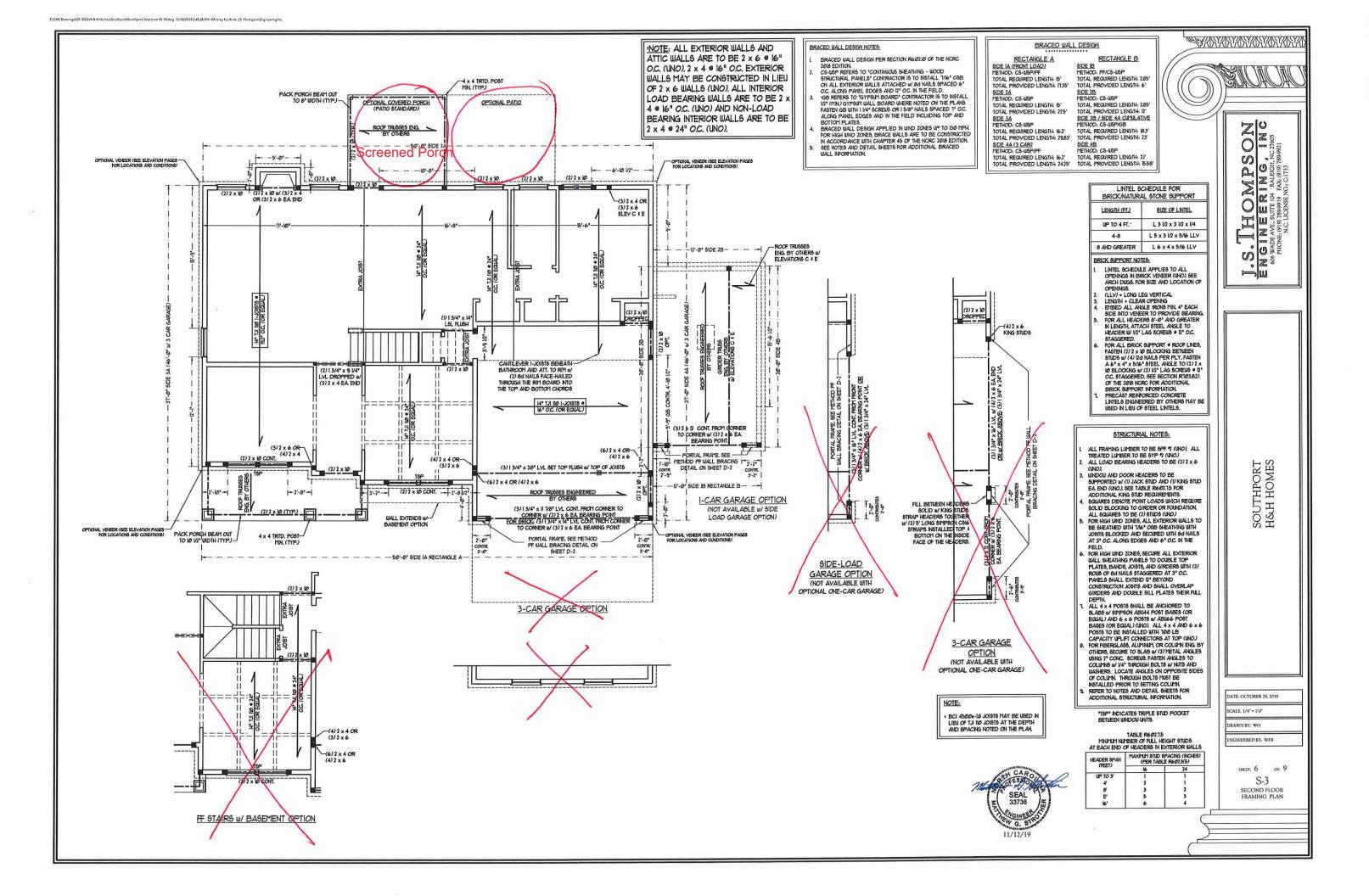
SO N. NC Z7605 789-9921 ENGINEERING,
MONEIGNERING,
MC WADEAVE, SUITE 104, RALEIGH,
MC LICENSE NO. C1733 3

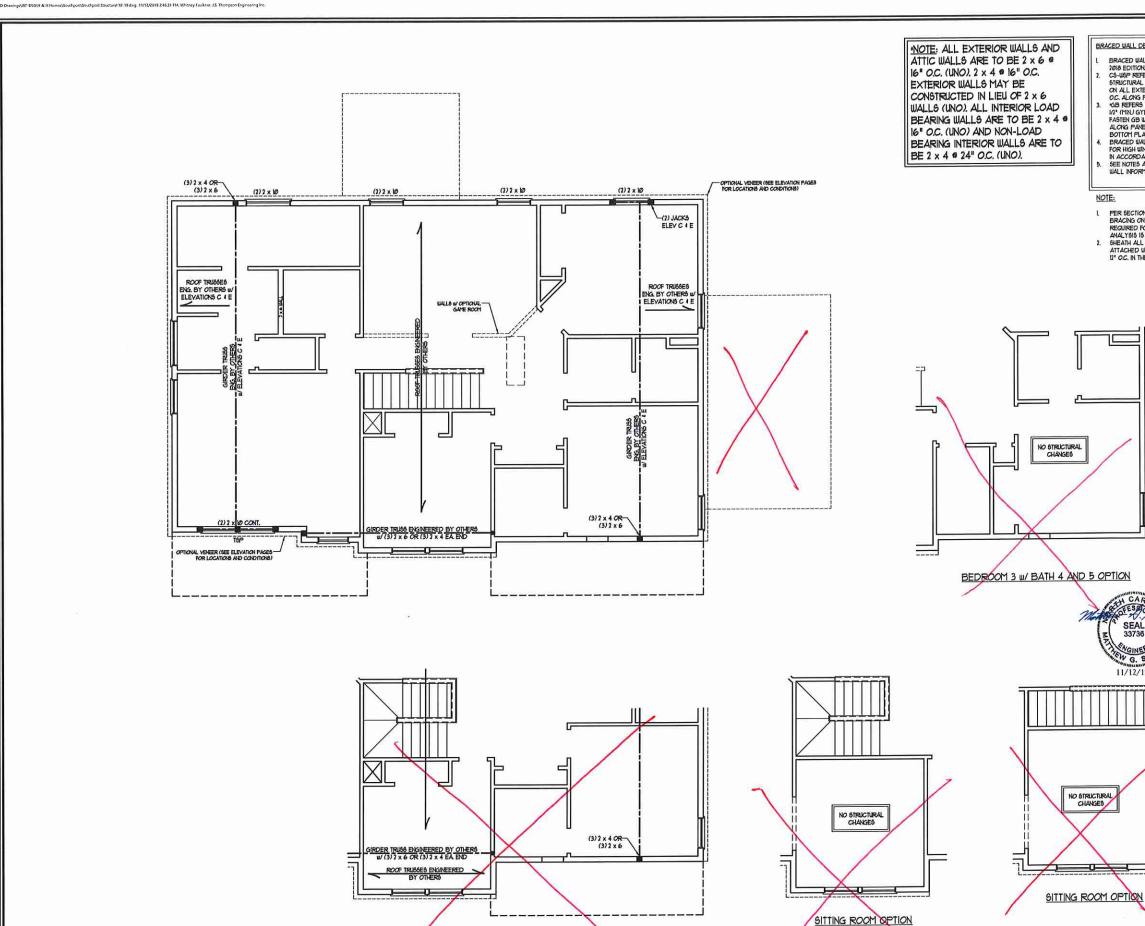
SOUTHPORT H&H HOMES

DATE-OCTOBER 29, 2019 SCALE: 1/4" - 1'0"

DRAWN BY: WG ENGINEERED BY: WFB

> SHEET: 5 OF 9 S-2 FIRST FLOOR FRAMING PLAN





BEDROOM *4 OPTION

(WITH BASEMENT OPTION)

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION RE0110 OF THE NORG
- BRACED WALL DESIGN FER SECTION R60/1/0 OF THE NORC
 1/08 EDITION.

 SERVICE REFERS TO "CONTINUOUS SHEATHINS WOOD
 STRUCTURAL, PAMELS" CONTRACTOR IS TO INSTALL THE" OSB
 ON ALL EXTREMOR WALLS ATTACHED W & MAILS SPACED 6"
 OC. ALONG PAMEL ECKES AND 1" OC. IN THE FIELD.
 SES REFERS TO "GYPSIN BOARD" CONTRACTOR IS TO INSTALL
 1/2" (MIN.) GYPSIN WALL BOARD" WHERE NOTED ON THE FLANS.
 FASTEN GB WITH I WA" SCREWS OR IS 36" NAILS SPACED "I" OC.
 ALONG PAMEL ECKES AND I" ON THE FIELD INCLUDING TOP AND
 BOTTOM FLATES.

 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.
 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED
 IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 1/30 EDITION.
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
 WALL INFORMATION.

NOTE:

SEAL 33736

11/12/19

AND SF STAIRS

(WITH BASEMENT OPTION)

- L FER SECTION R6021/032 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 STERFOR WALLS WITH THE **OSB SHEATHING ATTACHED WITH 8d NAILS AT 6"OC. ALONG PAVEL EDGES AND U"OC. N 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 V4
4-8	L 5 x 3 1/2 x 5/16 LLV
8 AND GREATER	L 6 x 4 x 5/16 LLV

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THOMPS

SINEERING,
ADEANS, SUITE 104. RALICH, N
HONE, (919) 788-9919 FAX. (919) 788-9919

N.C. LICENSE NO.C. CIT33

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BRICK SUPPORT NOTES:

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

- ARCH DUISS, FOR SIZE AND LOCATION OF OFFINNSS.

 (LLV) LON'S LEG YERTICAL
 LENGTH CLEAR OFFINNS
 EYEDD ALL ANGLE ROASH IN A' EACH
 SIDE NTO YENEER TO FROVIDE BEARING.
 FOR ALL HEADERS 9 90 AND GREATER
 N LENGTH, ATTACH STEEL ANGLE TO
 HEADER W VI' LAG SCREWS 12' O.C.
 STAGGERED.
 FOR ALL BRICK SUPPORT ROOF LINES,
 FASTEN (12' × 10' BLOCKING BETWEEN
 STUDD W (4') 2' A MALS FER PL.Y. FASTEN
 A 6' × A' * 3' * 5' ME'S TEEL ANGLE TO (2') 2' X
 10' BLOCKING W (2') 1/2' LAG SCREWS 12'
 O.C. STAGGERED. SEE SECTION RIDDISOL
 BRICK SUPPORT IN FORTHATION
 FRECAST REIN-PORCE OF CONCRETE
 LITTLE BYGNEERED BY OTHERS MAY BE
 USED IN LIEU OF STEEL LITTLE.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 6FF 12 (UNO). ALL TREATED LUMBER TO BE 6YF 12 (UNO). ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).

- 6 (IMO).

 6 (IMO).

 WHOOU AND DOOR HEADERS TO BE SUPPORTED W (I) JACK STID AND (I) KING STID EA BOD (IMO). SEE TABLE RESULTS FOR ADDITIONAL KING STID REQUIRETENTS.

 6 GLIARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR RONDATION. ALL SCALARES TO BE (?)

 5 TOR HIGH WHO ZONES, ALL EXTERIOR WALLS TO BE 642 AND 64 TO BE COVER WHO SHAPES WITH JONTS BLOCKED AND SECURED WITH AND MALE AT 3" CO. ALOKS EDGES AND 6"

 OC. N. THE FIELD.

 FOR HIGH WIDD ZONES, SECURE ALL

 EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP FLATES, BANDS, JOISTS, AND GIRDERS WITH (?) ROUS OF BEINGING.
- DOUBLE TOP FLATES, BANDS, JOSTS, AND GIRODERS UITH (1) ROUS OF 8d NAILS STAGGERED AT 3" OC. PANELS SHALL EXTEND IN BEYOND CONSTRUCTION JOINTE AND SHALL OVERLAP GIRODERS AND DOUBLE SILL FLATES THEIR RILL DEPTH. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

"TSP" INDICATES TRIPLE STUD POCKET BETWEEN WINDOW UNITS.

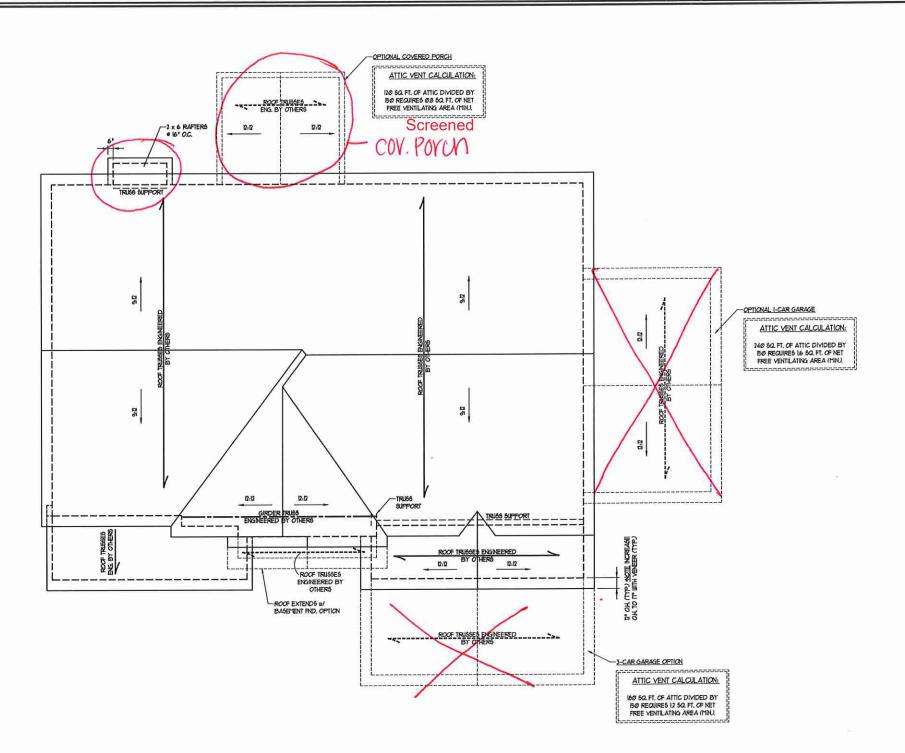
TABLE R602.15 MNIMM NUMBER OF FULL HEIGHT STUDS

HEADER SPAN	MAXIMIM 61UD SPACING (INCHES) (PER TABLE R6023(5)		
(FEET)	16	24	
UP TO 3'	1	1	
4'	2	1	
8'	3	2	
D'	5	3	
16'	6	4	

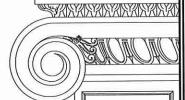
DATE: OCTOBER 29, 2019	
SCALE: 1/4" • 1"0"	
DRAWN BY: WG	
ENGINEERED BY: WFB	

SOUTHPORT H&H HOMES

sheet, 7 он 9 S-4 CEILING FRAMING PLAN



ELEVATIONS A, B, & D



ATTIC VENT CALCULATION:

1813 SQ FT. OF ATTIC DIVIDED BY BØ REQUIRES 121 SQ FT. OF NET FREE VENTILATING AREA (MIN.)

BRICK SUPPORT NOTE:

- L FASTEN (2) 2 x 10 BLOCKING BETUEEN WALL STUDG W (4) DA NAILG FER PLY, FASTEN A 6* x 4* x 5/6* STEEL AYGLE TO (2) 2 x 10 BLOCKING W (2) 10 PL AS GORBUS & 12* OC. 61 AGGERED SEE BECTION RY 939.21 CF THE 2009 NORCE FOR ADDITIONAL BRICK SUPPORT INFORMATION.

 2. WHERE ROOF SLOFES EXCEED 1/12, NATALL 3* x 3* x 14* STEEL PLATE STOPS AT 24* OC. FER SECTION RY 939.21 OF THE NORTH CAROLINA RESIDENTIAL CODE, 20/8 EDITION.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12

- L ALL FRAMING LUMBER TO BE "2"
 SFF (INCO).
 CIRCLES DENOTE (3) 2 x 4 POSTS
 FOR ROOF SUPPORT.
 SPRAME DORFER WALLS ON TOP
 OF DOUBLE OR TISPILE RAFTERS.
 HIP SFLICES ARE TO BE SPACED
 A MIN CF 8"-9". FASTSIN
 MEMBERS WITH THREE ROUB OF
 21d NALLS 8 IS "0". FASTSIN
 MEMBERS WITH THREE ROUB OF
 21d NALLS 8 IS "0". C. (TYP.)
 SITICK REAME OVER PRAMED
 ROOF SECTIONS W 2 x 8 RIDGES,
 2 x 6 RAFTERS 9 IS "0". AND
 HAT 1 x 10" VALLEY'S TO
 RAFTERS OR TRIBSES WITH
 SPRESON INJOHENS WITH
 THE SPRESON TO SECULIFIED UPILIT
 ZUB NORCE FOR REQUIRED UPILIT
 RESISTANCE AT RAFTERS AND
 TRISSESS.
- TRUSSES.
 REFER TO NOTES AND DETAIL
 SHEETS FOR ADDITIONAL
 STRUCTURAL INFORMATION

SON H. NCZ7605 9) 789-9921 ENGINEERING,
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SOUTHPORT H&H HOMES

DATE: OCTOBER 29, 2019 SCALE: 1/4" = 1'0"

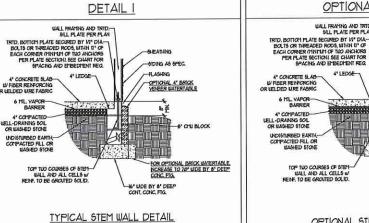
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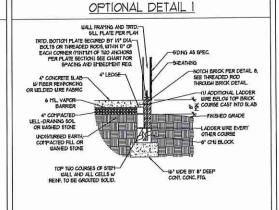
ENGINEERED BY: WFB

SHEET, 8 OF 9 S-5a roof framing plan

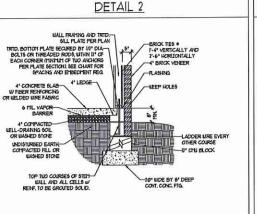


STEMWALL DETAILS

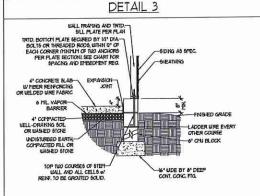




OPTIONAL STEM WALL DETAIL



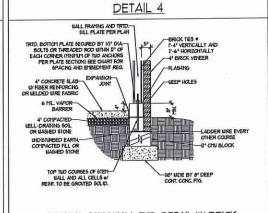
(W/ OPTIONAL WATERTABLE)



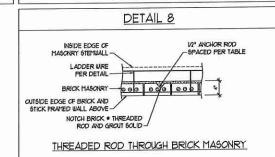
TYPICAL STEM WALL FND. W/ BRICK DETAIL

TYPICAL STEM WALL FND. DETAIL W/ CURB & GARAGE

OPTIONAL DETAIL 3 2 x 6 WALL FRAMING AND TRITO.— SILL FLATE PER PLAN 2 x 6 MN. TRID. BOTTON PLATE SECRED BY-IN' DIA BOLTS OR THREADED ROD WITHIN IN' OF EACH CORNER (TINNIAL) SEE CHART FOR PER PLATE SECTION, SEE CHART FOR SPACING AND EMBELTENT FIRE. SIDING AS SPEC. 6 ML YAPOR BARRIER 4" COMPACTED WELL-DRANNS SOIL OR WASHED STONE LADDER WIRE EVERY OTHER COURSE e CHI BLOCK OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE



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



	TIMOUNIST	TEMWALL SPE	- OII IOAIIOI	
WALL HEIGHT	MASONRY WALL TYPE			
(FEET)	8" CMJ	4" BRICK AND 4" CMI	4" BRICK AND 8" CMJ	12" CMJ
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
4	GROUT SOLID	GROUT SOLID w/ *4 REBAR # 48* O.C.	GROUT SOLID	GROUT SOLID w/ 44 REBAR # 64" O.C.
5	GROUT SOLID w/ *4 REBAR # 36* O.C.	NOT APPLICABLE	GROUT SOLID u/ *4 REBAR # 36* O.C.	GROUT SOLID w/ "4 REBAR # 64" O.C.
6	GROUT SOLID w/ *4 REBAR # 24" O.C.	NOT APPLICABLE	GROUT SOLID u/ *4 REBAR # 24" O.C.	GROUT GOLID W/ "4 REBAR # 64" O.C.

WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
TIE MALTIFLE WITHES TOGETHER WITH LADDER WIRE AT 16" OC. VERTICALLY.
CHART APPLICABLE FOR HOUSE FOUNDATION CALT, CONSULT ENGINEER FOR DESIGN OF GARAGE

FOUNDATION NOT COTHICN TO HOUSE.

BACFILL OF CIEAN \$5 / \$5 WASHED STONE IS ALLOWABLE.

BACFILL OF WILL DRAIND OR SAND - GRAVEL MIXTURE SOILS (45 PSF-FT BELOW GRADE)

CLASSFIED AS GROUP I ACCORDING TO UNFIED SOILS CLASSFICATION SYSTEM IN ACCORDINGE

WITH TABLE RICE) OF THE 10/8 NITERIATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

FREP 9.4.8 PER 150-663 JAIN 150-150-150 MICHAEL SOILS (MICHAEL RESIDENTIAL CODE AND ALLOWABLE CODE.

NINIMAL 1.4P SFLICE LENGTH.

LOCALE REBAR IN CENTER OF PETANDATION WAS IN THE 10/95 NITERIATIONAL RESIDENTIAL CODE.

HINNIM 74" LAP BRICE LENGTH.

1. LOCATE REBAR IN CENTER OF FOUNDATION WALL

3. WHERE RECURED, 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

AN	CHOR SPACING AND	EMBEDMENT
WIND ZONE	120 MFH	130 MPH
SPACING	6'-0" O.C.	4'-0° O.C.
EMBEDMENT	ין	IS" INTO MASONRY "I" INTO CONCRETE

SZ7605 S ERING.

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SPEED WIND MPH ULTIMATE DESIGN FOUNDATION DETAILS 130 MPH 20

DATE: NOVEMBER 14, 2018 SCALE: NTS DRAWN BY: IST NGINEERED BY: JES

D-1 FOUNDATION DETAILS



WALL BRACING DESKANED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC).
TABLES AND FISURES REFERENCED ARE FROM THE 2018 NCRC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
 SEE STRICTURAL SHEETS FOR BRACED WALL LOCATIONS, DYNESSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESKAN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES

- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R6/07/0/3 UNLESS NOTED

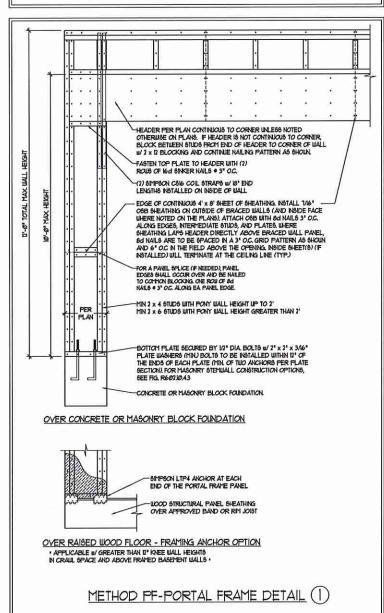
- ALE EXTENSIVE MALES ARE TO BE GREATED WITH COURT IN ACCORDANCE WITH DESTROY WESTED SUCCESS FORED CHECKING.

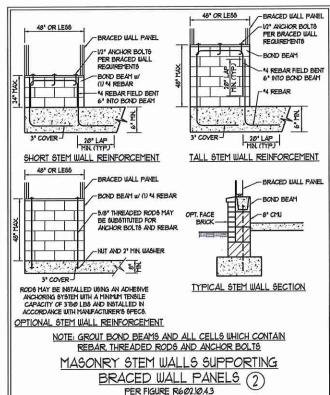
 5. ALL EXTERIOR AND NITERIOR WALLS TO HAVE IN' GYPSUM INSTALLED, WEN NOT USING METHOD 'GSP', GYPSUM TO BE FASTINED PER TABLE REGISSION.

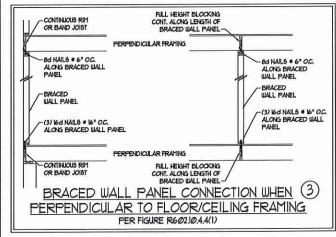
 6. CS-WEY REFERS TO THE "CONTINUOUS GREATINGS WOOD STRUCTURAL PARELS" WALL BRACING METHOD. 1/6" OSB SHEATING 15 TO BE NOTALLED ON A WALLS ATTACHED WIS GOOD CONTINUOUS OR OIL O'L IN' LOKIS X DID'S DIAPETER) NAILS SPACED 6" OC. ALONG PAREL EDGES AND D" OC. N THE FIELD (UNO.)

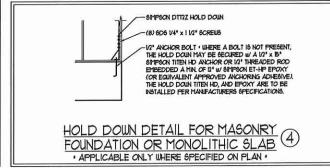
 1. GB REFERS TO THE "GYPSUM BOARD" WALL BRACINS TENTION. IN' (THIN) GYPSUM WALL BOARD 15 TO BE NOTALLED ON BOTH BIGGO OF THE BRACED WALL FASTINED WITH 1/4" SCREWS OR 15 BN' NAILS SPACED 1" OC. ALONG PAREL EDGES NOLLDING TOP AND BOTTOM FLATES AND INTERVEDIATE SUPPORTS (UNO.). VEREY ALL FASTINER OPTIONS FOR IN' AND SIGN STREAM PRIOR TO CONSTRUCTURE. OR NITERIOR FASTINER OPTIONS SEE TABLE REGISSION. EXTERIOR GISTO DE NITALLED VERTICALLY.

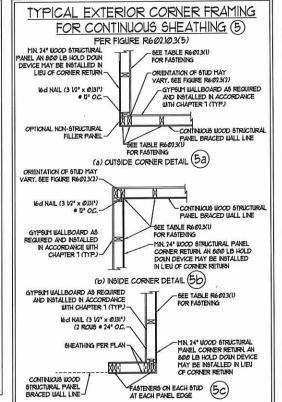
 8. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIPED RECTANGLE ARE INTERPOLATED PER TABLE REGISS. 19.3 INTERVOLOSIUS TO SUPPON CONTRIBUTES 15 TO SEE TABLE LENGTH, AND METHOD OF CONTRIBUTES 15 TO SE TIME. LENGTH, PETHOD GIS CONTRIBUTES 5 THE ACTUAL LENGTH, AND METHOD OF CONTRIBUTES 15 TO SECOND.





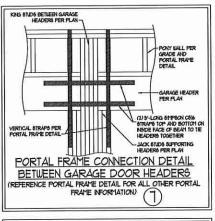


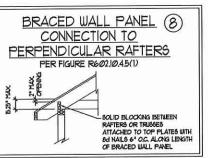


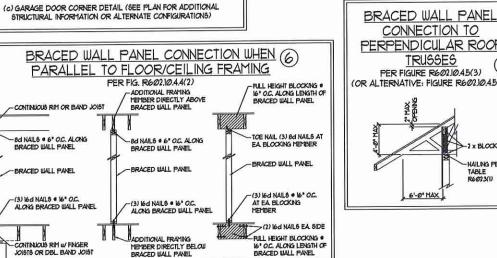


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PERPENDICULAR ROOF (9)PER FIGURE R602.10.45(3) (OR ALTERNATIVE: FIGURE R602.10.45(2)) WILING PER R6023(I)

Q ULTIMATE DESIGN WIND ING NOTES AND DETAILS MPH ULTI BRACING MPH - 130 WALL I

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

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

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CMPS ERING JITE 104 RALEICH, 899919 FAX: (919) 7 工四 S

GENERAL NOTES

- L ENGINEER'S SEAL APPLIES CALY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLETS, RIDGES, FLOORS, WALLS, BEAYS, HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARNS WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIFENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT NCLUDING ROCF. ENSINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, FLUS
 ALL LOCAL CODES AND REGULATIONS, THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND 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 NORC, 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/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/36Ø
FIRE ESCAPES	40	10	L/36Ø
HANDRAIL & GUARDRAIL &	200 LB OR 50 (PLF)	W	L/360
PASSENGER VEHICLE GARAGE	50	W .	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	100	L/36Ø
SLEEPING ROOMS	30	10	L/36Ø
STAIRS	40	10	L/360
WND LOAD	(BASED ON TABLE R3/012)	4) WIND ZONE AND EXPOSURE	
GROUND SNOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS POF DEAD LOAD
- 4. FOR 15 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R40316 OF THE NORC, 2016 EDITION. FOR BO 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 ALLOWARLE BEARING CAPACITY OF 1000 PSF, CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERMETER OF THE BUILDING BINVELOPE SHALL HAVE ALL VEGETATION, TOP 80 IL AND FOREIGN MATERIAL REPOYDED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED AND FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL HIXTURE SOILS CLASSIFIED AS), ACCORDING TO THE UNITED SOIL CLASSFICATION SYSTEM IN ACCORDIANCE WITH TABLE R4051 OF THE NCRC, 2018 EDITION.
- PROPERLY DEWATER EXCAYATION PRIOR TO POURNIS CONCRETE WHEN BOTTOM OF CONCRETE BLAB IS AT OR BELOW WATER TABLE. F
 APPLICABLE, 3/4" I' DEEP CONTROL JOINTS ARE TO BE SAMED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
 BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R40/12 OF THE NORC, 20/08 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A6/6 GRADE 60. UELDED WIRE FABRIC TO BE ASTM A6/6. MANTAIN A MINIMIM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 IV" IN SLABS. FOR FOURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 IV" FOR 50 BARS OR SHALLER, AND NOT LESS THAN 2" FOR 50 BARS OR SHALLER, AND NOT LESS THAN 2" FOR 50 BARS OR SHALLER, AND NOT LESS THAN 2" FOR 50 BARS OR SHALLER, AND NOT LESS THAN 2" FOR 50 BARS OR CHARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/THS 401. MORTAR SHALL CONFORM TO ASTRI COTO.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE HASONRY UNITS AND THE THEST THEIR LEAST DIMENSION FOR SOLLD OR SOLLD FILLED PIERS, FERS HAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 8 MORTAR PIERS AND WALLS 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 MASCARY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION RADA OF THE NORC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 333, NOTA TRISS A OR ACE 530/ASCE 570°18 402. MASCARY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE ROADWILLS, RADALISS, OR RADALIS OF THE NORC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE RADALISS OF THE NORC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRANCED WALLS AT 16° OC. WE'RE GRADE PERMITS (IND).

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FRAMING NOTES

- ALL FRAMING LIMBER SHALL BE 2 SFF MINIMUM (Fb = 815 PSI, FV = 315 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 PSI, FV = 115 PSI, E = 16000000 PSI) UNLESS NOTED OTHERUISE (UNO).
- LAMNATED VENEER LIMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FID #2600 PSI, FV # 285 PSI, E # 19000000 PSI. LAMMATED STRAND LIMBER (I.B.). SHALL HAVE THE FOLLOWING HIMMAM PROPERTIES: Fb = 2325 PSI, FV = 310 PSI, E = 8500000 PSI.
 PARALLEL STRAND LIMBER (PSI.) UP TO "" DEPTH SHALL HAVE THE FOLLOWING MINIMAM PROPERTIES: Fc = 2500 PSI, E = 18000000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fo . 2900 PSI, E . 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.

STRUCT	IRAL STEEL SHALL 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
E.	STEEL PIPE:	ASTM A53, GRADE B, TYPE E OR S

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

(2) 1/2" DIA x 4" LONG LAG SCREUS A WOOD FRAMING (2) 1/2" DIA x 4" WEDGE ANCHORS (2) V2" 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 LATERAL BUTTORT TO CONDUCTED A DEGUATE PROFUNDING THE STOP DESTRUCTION OF THE

- 6. SCHARES DENOTE PONT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE PONT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARNS HEADERS TO CONFORM TO TABLE RG02.7(1) AND RG02.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (I) JACK AND (1) King Stud Each Bid (Ind), whichever is greater all headers to be secured to each Jack Stud with (4) 8d nails. All Beans to be supported with (2) Studs at each bearing pont (ind). Install king studs per section re802.15 of the north
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR RULLY ON (1) JACK OR (2) STUDS MINMAN OR THE NAMER OF JACKS OR STUDG NOTED. ALL BEAYS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY (3) STUDG OR LEGG ARE TO HAVE I UP HINDH BEARING (IND). ALL BEAYS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDG OTED COLUMN ARE TO BEAR FILLY 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 12" DIAMETER BOLTS (ASTM A301) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMIN), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PAYELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RE#21/0.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS FER MANIFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8°-8° IN LEWITH, REST A 6° x 4° x 5/6° STEEL ANGLE WITH 6° MINIMAL EMBEDMENT AT SIDES FOR BRICK SUPPORT (UNO). FOR ALL HEADERS 8°-8° AND GREATER IN LEWITH, BOLT A 6° x 4° x 5/6° STEEL ANGLE TO HEADER WITH 1/3" LAG SCREUB AT 13" OC. STAGGERED FOR BRICK SUPPORT, FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (3) 2 x 1/2" NOUS OF 1/3" LAG SCREUB AT 1.4" 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103821 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
- IA. FOR TRUSSED ROOFS: FRAME DORSER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" OC. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" OC. AND FLAT 2 x 10" VALLEYS (NAO).
- 5. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1600 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (INO.) POSTS MAY BE SECURED USING ONE SIMPSON HE OR LIST UPLET CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, CHE M' SECTION OF SIMPSON COME COIL STRAPPING WITH (8) BUT HOS NAILS AT EACH END MAY BE USED IN LIEU OF EACH TURST STRAP F DEBIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



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SP Q 130 MPH ULTIMATE DESIGN WIN STANDARD STRUCTURAL NOTES MPH

DATE: NOVEMBER 14, 2018

SCALE: 1/4" = 1'0" DRAWN BY: JES

ENGINEERED BY: IST

S-0 STRUCTURAL. NOTES