



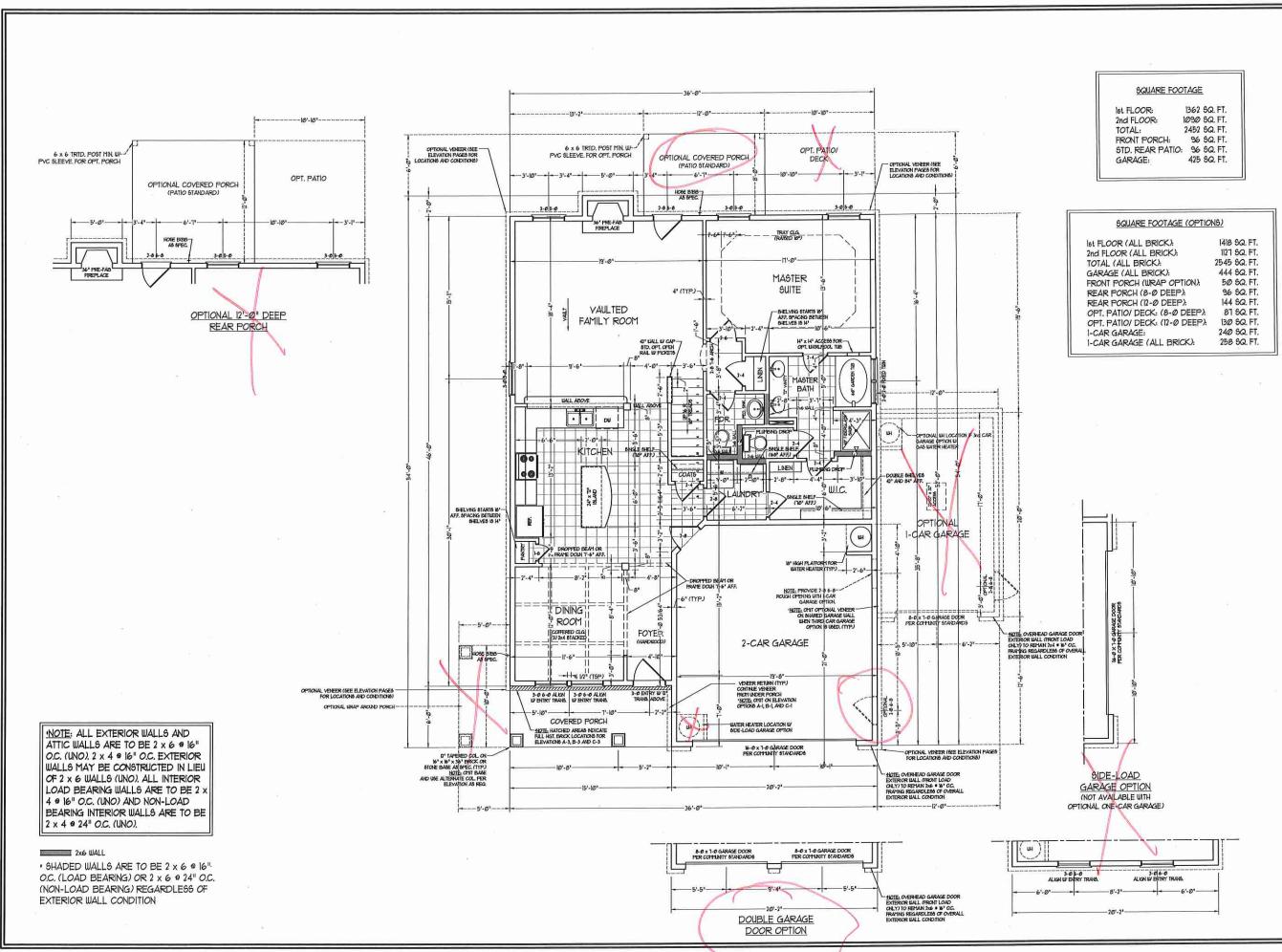


H&H HOMES, INC. BILTMORE

DATE: OCTOBER 22, 2018

REVIEWED BY: JES

**B-ELEVATION** 





RENAISSANCE

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

ENAISSANCE RESIDENTIAL DESIGN, IN RESERVES THE RIGHT TO MAKE MODERCATIONS TO FLOOR PLAYS, DIMENSIONS, MATERIALS, AND SPECIFICATIONS WITHOUT NOTICE. THESE DRAWLINGS ARE FOR THE PURPOSE OF CONVEYING AU

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H&H HOMES, INC BILTMORE

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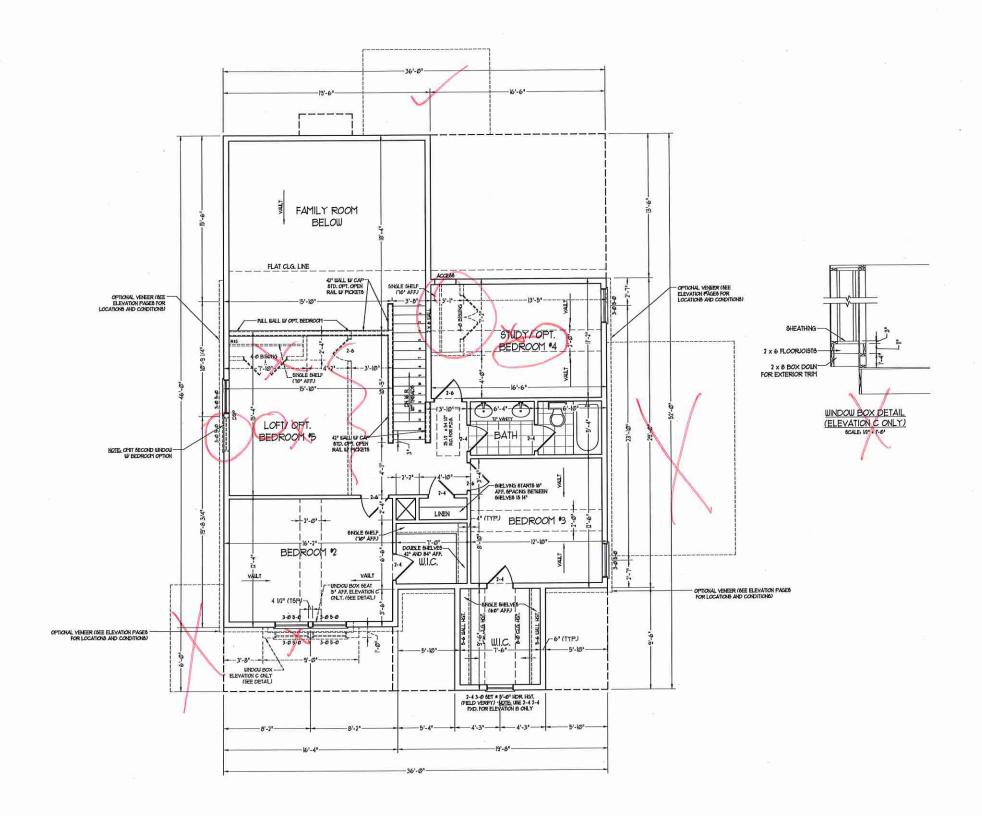
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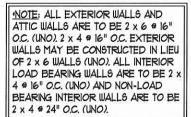
DRAWN BY: WG

ENGINEERED BY: WLF REVIEWED BY: JES

FIRST FLOOR PLAN

A-4





### 2x6 WA

• 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



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J.S.THOMPSON ENGINEERING, INC 666 WADE AVE., SUITE 104 RAISIOH, NC. 27605 PHONE: (019) 788-991 FAX. (919) 788-9921 N.C. LICENSE NO., C-1735



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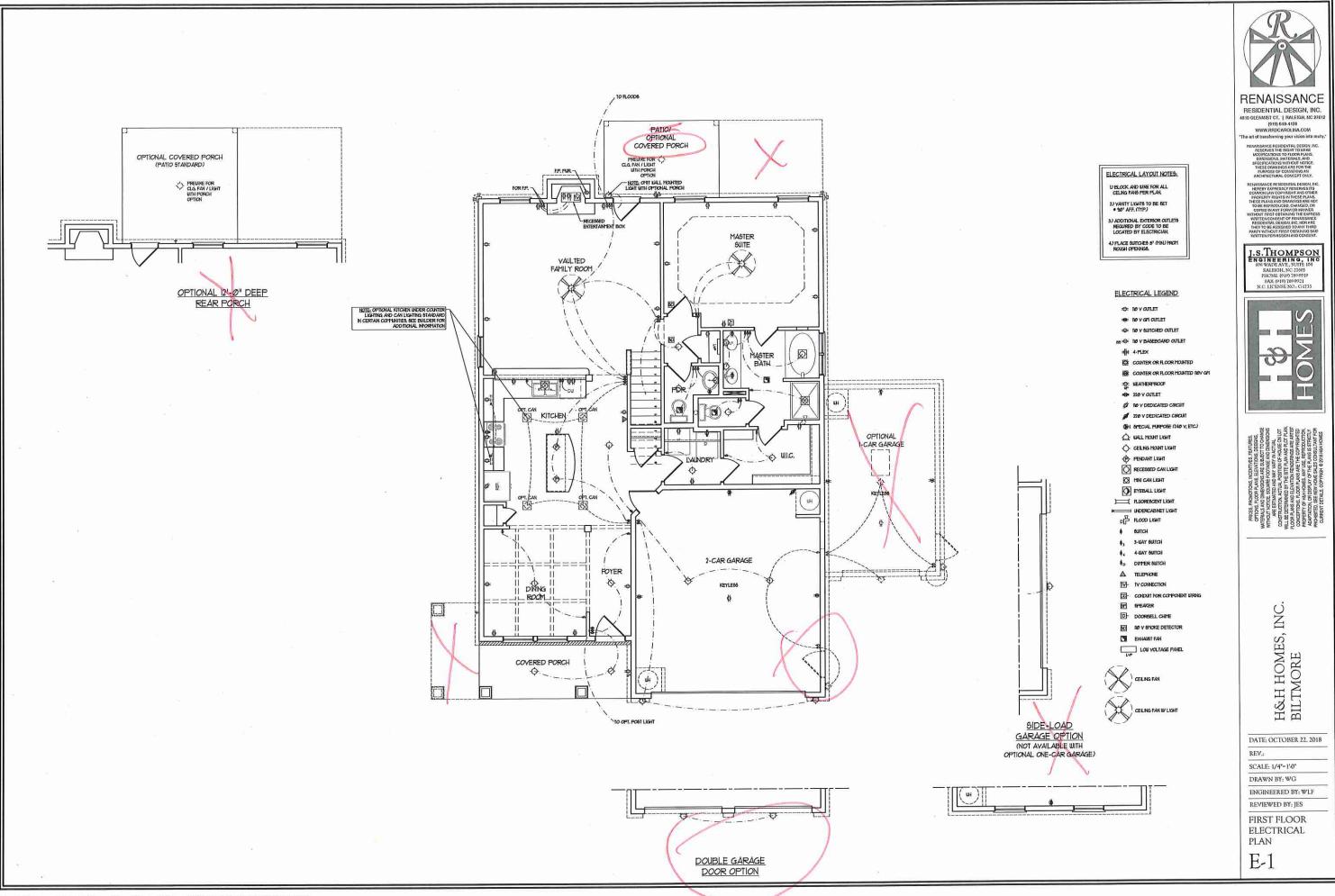
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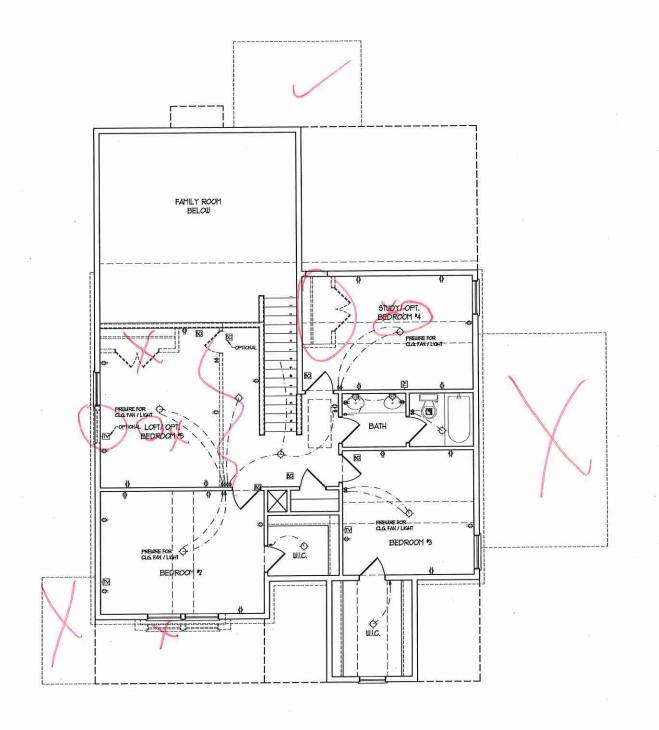
ENGINEERED BY: WLF
REVIEWED BY: JES

SECOND FLOOR PLAN

A-5

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ELECTRICAL LAYOUT NOTES:

U BLOCK AND USE FOR ALL CELING FANS FER FLAN

2) YANTY LIGHTS TO BE SET • 90° AFF. (TYP)

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

4) PLACE SUTCLES 8" (HIN) FROM ROUGH OPENINGS.

### ELECTRICAL LEGEND

- TO YOUTLET
- # NO Y GH CUTLET
- THE N BUTTCHED OUT
- ES C IN Y BASEBOARD OUTLET
- # 4-PLEX
- 母 COUNTER OR FLOOR HOUNTED
- 器 COUNTER OR FLOOR HOUNTED THEY GH
- C LEATHERTROOF
- ⊕ 220 Y CUTLET
- IN Y DEDICATED CIRCUIT
- 20 V DEDICATED CROUT
- THE SPECIAL PURPOSE (140 V, ETC.)
- THOMIT HOMIT FRAM
- CEILING HOUNT LIGHT
- BECERRED CAN FRAIL
- MINI CAN LIGHT
- EXERNIT FRAM

- E HOOD FRHI
- \$ GUIT
- 43 3-MAY BUTCH
- DIMER BUTCH
- A TELEPHONE
- ☑ TV CONECTION
  ☑ CONDUIT FOR CONFORDIT WIREK
- EF SPEAKER
- D- DOORBETT CHILE
- MO V SMOKE DETECTOR
- EXPLANATION

  LOW VOLTAGE PANEL







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J.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEIGH, NC 217005 PHONE: 0910/ 788-0919 FAX: 0110/ 788-0921 N.C. LICENSE NO.: C-1733



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H&H HOMES, INC. BILTMORE

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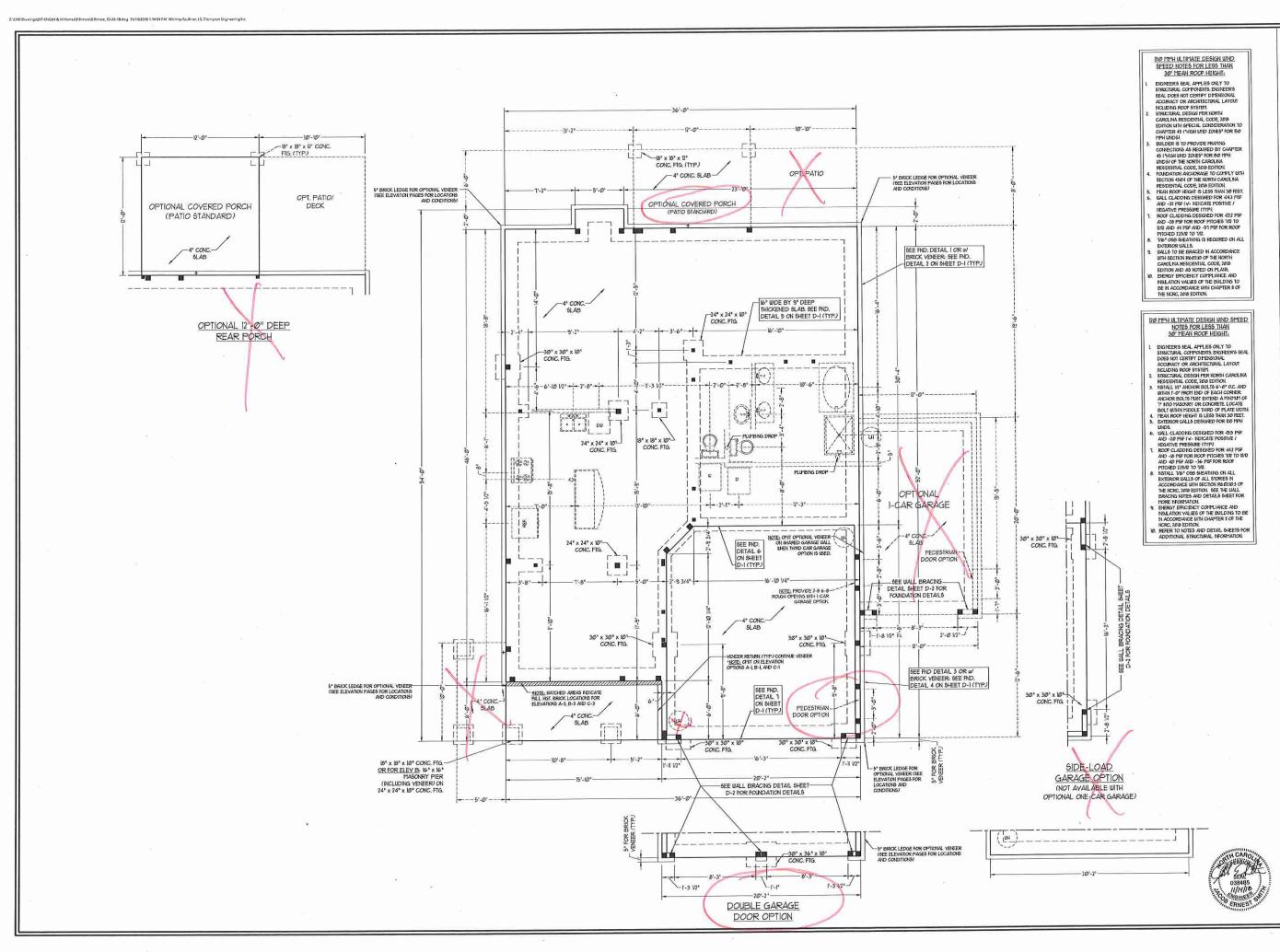
REV.:

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

ENGINEERED BY: WLF

REVIEWED BY: JES
SECOND FLOOR

ELECTRICAL PLAN
E-2





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110 GLENMIST CT. | RALEIGH, NC 27612 (919) 649-4128 YAYW,RRDCAROLINA.COM the art of transforming your vision into relativ

e and of transforming your vision into the RESERVES THE RIGHT TO MAKE MODIFICATIONS TO FLOOR PLANS, DIVENSIONS, MATERIALS, AID SPECIFICATIONS WITHOUT NOTICE. THESE DRAWNING ARE FOR THE PURPOSE OF CONVERNING AN

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H&H HOMES, INC. BILTMORE

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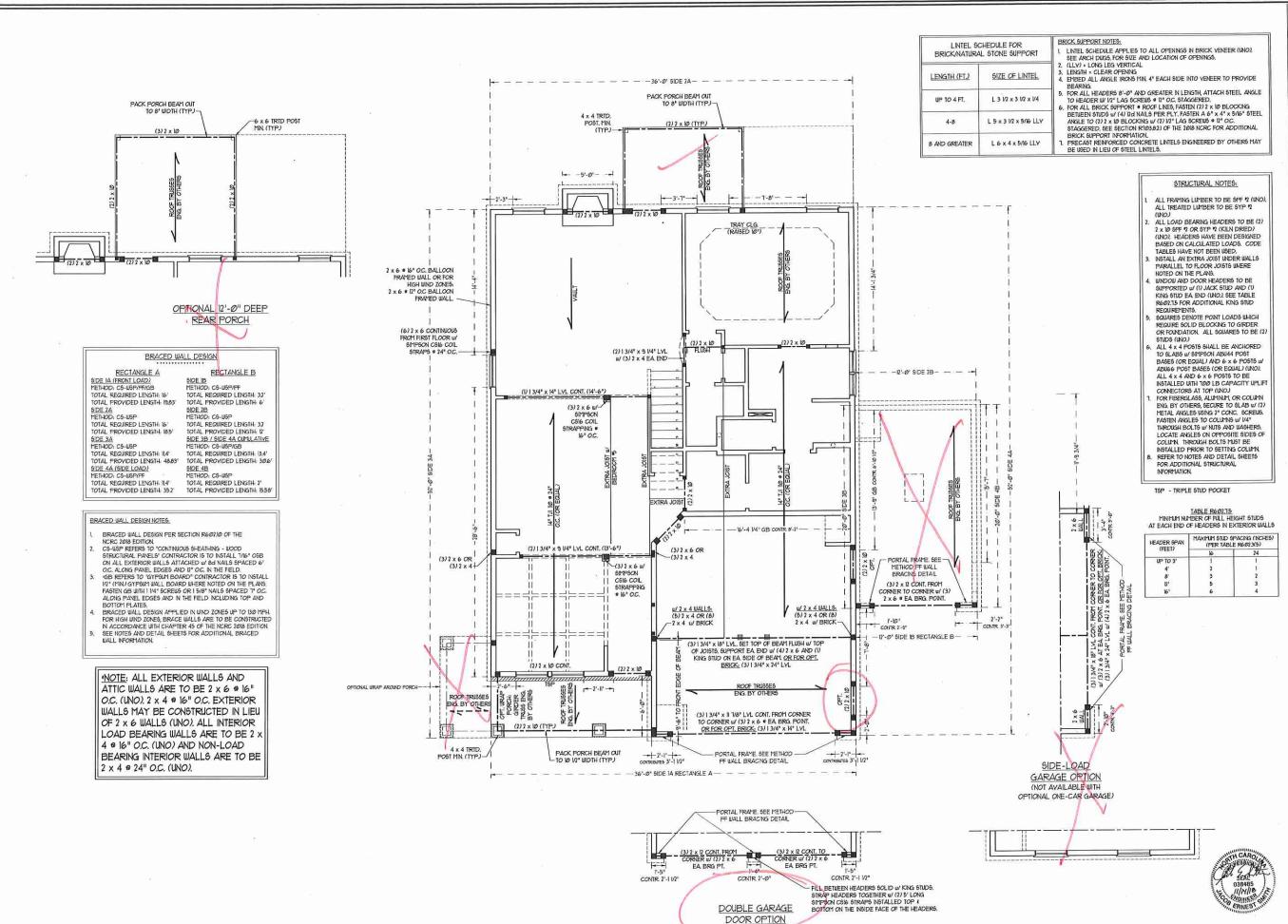
SCALE: 1/4"=1'-0" DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: JES

MONO SLAB FOUNDATION PLAN

S-1



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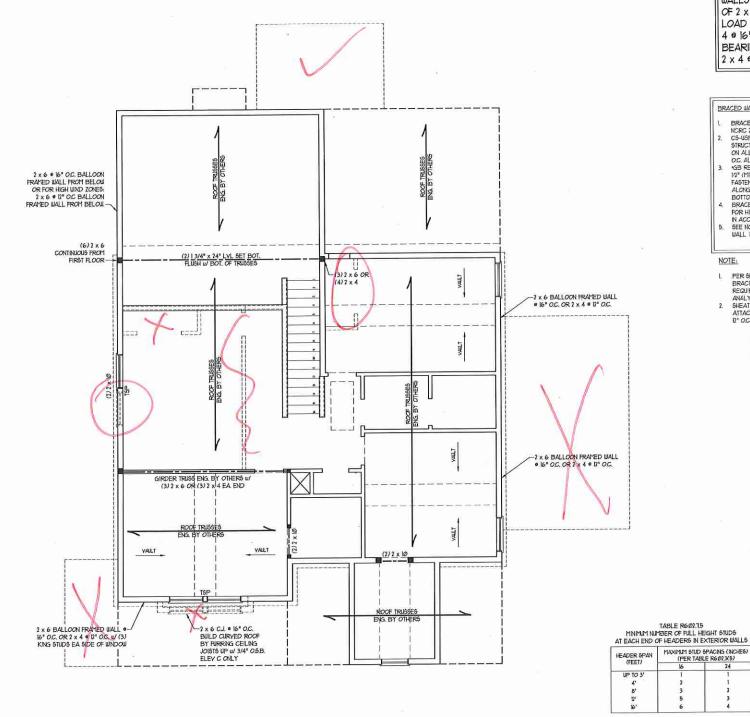
DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: JES

SECOND FLOOR FRAMING PLAN

S-2



WINDOW BOX DETAIL

- NSTALL CONT. 1/16\* OSB SHEATHING ON OUTSIDE OF BRACED WALLS, ATTACH OSB WITH 8d NAILS 3\* O.C. ALONG EDGES AND 6\* O.C. IN THE FIELD.

FRAME DOWN FER DETAIL ON SECOND FLOOR ARCHITECTURAL SHEET.

INSTALL SIMPSON L'10 CORNER BRACKETS 24" O.C. IN CORNERS. 2 x 6 FLOOR JOISTS @ 16" OC SHEATHING TO

COVER JOISTS AS WELL

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

### BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602,10 OF THE
- BRACED WALL DESIGN PER SECTION R609.10 OF THE NCRC 20% EDTION CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/6" OSB ON ALL EXTERIOR WALLS ATTACHED WIS AN ANIL STRENGR WALLS ATTACHED WIS AN ANIL STRENGR WALLS EDGES AND 2" OC. IN THE FIELD IS AD REPERS TO "GYPSUM BOAND" CONTRACTOR IS TO INSTALL IVE "MINU GYPSUM WAS BOAND" CONTRACTOR IS TO INSTALL IVE "MINU GYPSUM WALL BOARD" WHERE NOTED ON THE FIANS, FASTEN OB WITH I "SCREUS OR I 5/6" NAILS SPACED T" OC. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PILATES.

  BRACED WALL DESIGN APPLIED IN WAD ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 25 OF THE INCRC 26'S EDITION, SEE NOTES AND DETAILS. HERETS FOR ADDITIONAL BRACED
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
- WALL NFORMATION

### NOTE:

- L PER SECTION R602/032 OF THE 20/0 NORC, THE AMOUNT OF BRACKS ON THE SECOND FLOOR ENCERDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.

  2. SHEATH ALL EXTERIOR WALLS WITH 7/16\* OSB SHEATHING ATTACHED WITH 84 NAILS AT 6\* OC. ALONG PANEL EDGES AND 12\* OC. IN THE FIELD.

	CHEDULE FOR AL STONE SUPPORT
LENGTH (FT.)	SIZE OF LINTEL
UP TO 4 FT.	L 3 V2 x 3 V2 x V4
4-8	L 5 x 3 1/2 x 5/16 LLV
8 AND GREATER	L 6 x 4 x 5/16 LLY

### BRICK SUPPORT NOTES:

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (INO). SEE ARCH DILGS, FOR SIZE AND LOCATION OF OPENINGS. (LLV) = LONG LEG VERTICAL
- LENGTH = CLEAR OPENING EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING. FOR ALL HEADERS 8"-0" AND GREATER
- FOR ALL HEADERS 9"-0" AND GREATER NI LEWSHI, ATTACH STEEL NAVIE TO HEADER WIN'T LAG SCREUS 12" O.C. STAGGERED.

  FOR ALL BRICK SUPPORT ROOF LINES, FASTEN (2)" 7 x 10" BLOCKING BETWEEN STUDS 20" (4)" OAI HAILE FOR FLY, FASTEN A 6" x 4" x 50" 5 TEEL, AYGLE TO (2)" 2 x 0" BLOCKING 20" (2)" 12" LEWSHING 20" (2)" LEWSH OF THE 2018 NCRC FOR ADDITIONAL
- PRICK SUPPORT INFORMATION
  PRECAST REINFORCED CONCRETE
  LINTELS ENGINEERED BY OTHERS MAY BE
  USED IN LIEU OF STEEL LINTELS.

### STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12 SFF
- (INO).
  ALL LOAD BEARNS HEADERS TO BE
  (2)2 x \(\text{in}\) (INO).
  UNDOU AND DOOR HEADERS TO BE
  SUPPORTED \(\text{in}\) (IN ACK STUD AND (I)
  KNG STUD EA BND (INO). SEE TABLE
  REALIS FOR ADDITIONAL KING STUD
  DECUMENTED. REQUIREMENTS. SQUARES DENOTE POINT LOADS
- MIHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION, SQUARES TO BE (2) STUDS (UNO.) REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL
- NFORMATION.

TOP - TRIPLE STUD POCKET





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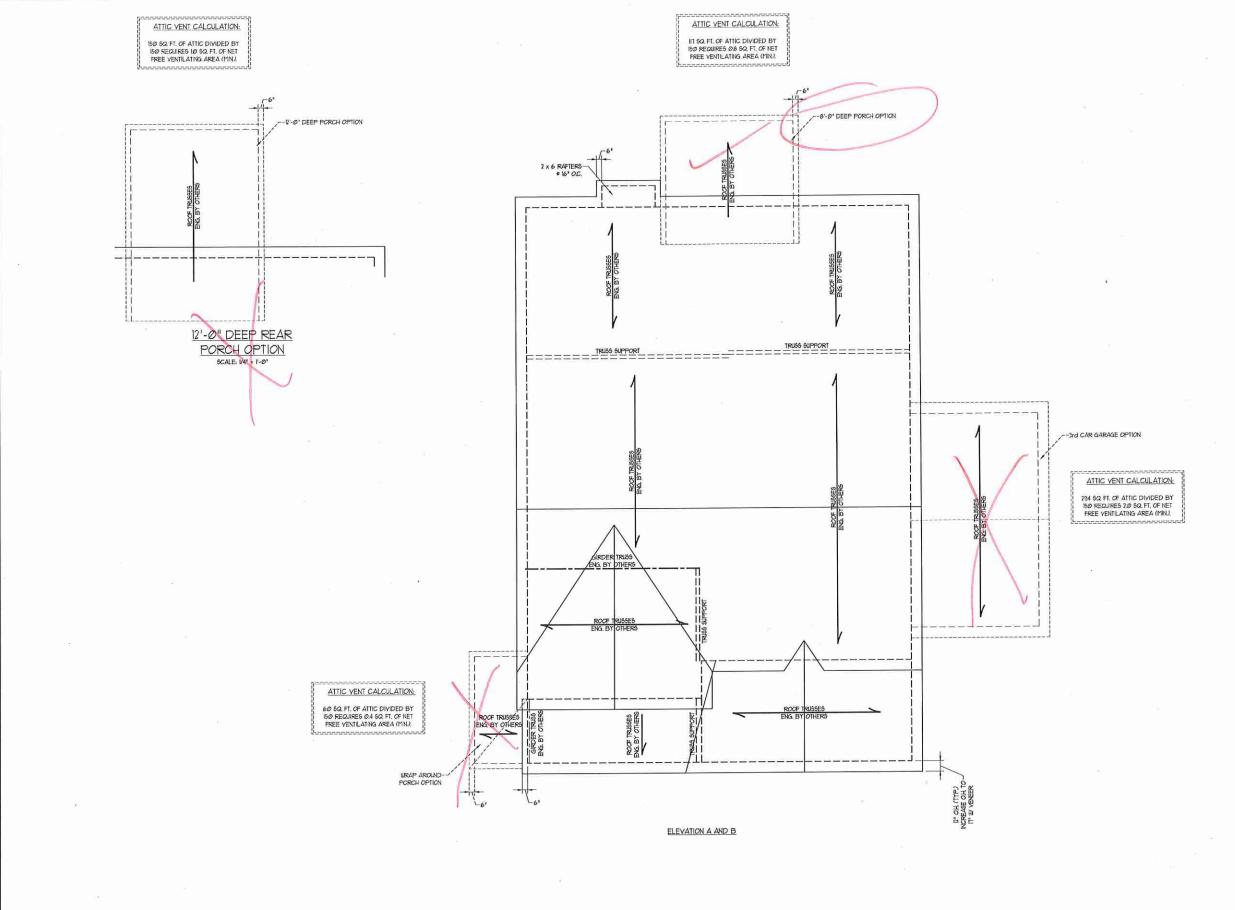
DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: IES

ATTIC FLOOR FRAMING PLAN

S-3





2030 SQ. FT. OF ATTIC DIVIDED BY 150 REQUIRES 135 SQ. FT. OF NET FREE YENTILATING AREA (MIN).

### STRUCTURAL NOTES:

- STRACTUREAL NOTES:

  SILERATING LUMBER TO BE "2

  ALL FRAMING LUMBER TO BE "2

  FOR INCLES DENOTE (3) 2 x 4 POSTS
  FOR ROOF SUPPORT.

  FRAME DOM'TER WALLS ON TOP
  OF DOUBLE OR TIBPLE RATTERS.
  HIP SPLICES ARE TO BE SPACED
  A MN. OF 8'-9'. FASTEN
  MEMBERS WITH THEER ENUIS OF
  12d NAILS 9 18' OC. (TYP.)

  STICK FRAME OVER-FRAMED
  ROOF SECTIONS W 2 x 8 RIDGES,
  2 x 6 RAFTERS 9 16' OC. AND
  FLAT 2 x 19 VALLET'S OR USE
  VALLET TRUSSES.

  YASTEN TAT VALLET'S TO
  RATTERS OR TRUSSES WITH
  SPESON MESA HURRICANE TIES 9

  32" OC. MAX. PASS HURRICANE
  TIES THROUGH NOTOCH IN ROOF
  SHEATHINK. EACH RAFTER 16 TO SHEATHING, EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) IZO
- VALLEY WITH A PINK OF 167 IZA
  TOE NAME.
  REFER TO SECTION REØ231 OF THE
  2019 NORC FOR REQUIRED UP-LIFT
  RESISTANCE AT RAFTERS AND
  TRAISSES.
  REFER TO NOTES AND DETAIL
  SUBSES. POR ADDITIONAL
- SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION



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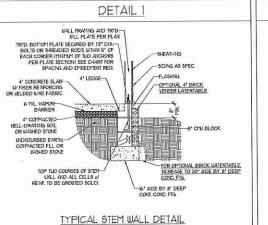
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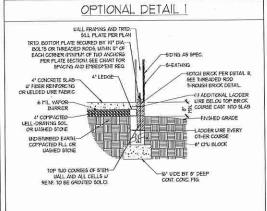
ENGINEERED BY: WLF

REVIEWED BY: JES

ROOF PLAN **ELEVATIONS** A&B

## STEMWALL DETAILS





OPTIONAL STEM WALL DETAIL

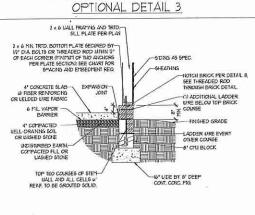
DETAIL 2 WALL FRAMING AND TRID: SILL PLATE PER PLAN TRID, BOTTOM PLATE SECURED BY MY D'A-BOLTS OR THREADED RODS, WITHIN B" OF EACH CORNER MINIMUM OF THO ANCHORS -4" BRICK VENEER - FLASHING 6 HIL YAPOR-BARRER 4" COMPACTED-SELL-DRANNG 50L OR W45-ED STONE LADDER URE EVERY OTHER COURGE D' CHU BLOCK -76" LIDE BY 8" DEEP CONT. CONC. FTG. WALL AND ALL CELLS & REINF. TO BE GROUTED SOLIC

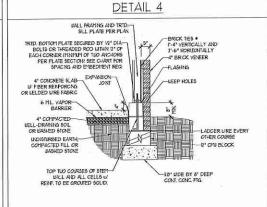
(W/ OPTIONAL WATERTABLE)

DETAIL 3 TRID, BOTTOM PLATE SECURED BY 10° D'A-BOLTS OR THREADED RODS, WITHN ID' OF EACH CORNER (MINMM OF TWO ANCHORS - 51DNG AS SPEC. -6-EATHNG 4" CONCRETE SLAS UF FIBER REINFORGING OR LIELDED LURE FASRIC 6 MIL VAPOR BARRER -FINSHED GRADE 4" COMPACTED-BELL-DRANNG SOIL OR BASHED STOKE TOP TWO COURSES OF STEM WALL AND ALL CELLS W/ RENF. TO BE GROWED SOLID.

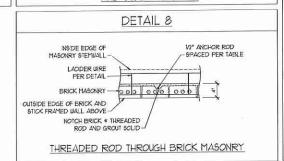
TYPICAL STEM WALL FND. W/ BRICK DETAIL

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





WALL HEIGHT	MASONRY WALL TYPE				
(FEET)	8" CMJ	4" BRICK AND 4" CMJ	4" BRICK AND 8" CMJ	12 ° CMJ	
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
14	GROUT SOLID	GROUT SOLID u/ 14 REBAR @ 48" O.C.	GROUT SOLID	GROJT SOLID #/ 14 REBAR # 64" O.C.	
5	GROUT SOLID w/ *4 REBAR # 36* O.C.	NOT APPLICABLE	GROUT SOLID w/ *4 REBAR # 36* O.C.	GROJT SOLID w/ *4 REBAR # 64* O.C.	
6	GROJT SOLID w/ *4 REBAR 9 24* O.C.	NOT APPLICABLE	GROUT SOLID at 14 REBAR # 24" O.C.	GROUT SOLID w/ *4 REBAR # 64" O.C.	
1 AND GREATER	EX	INEERED DESIGN BA	SED ON SITE CONDIT	<u>ION5</u>	

#### STRUCTURAL NOTES:

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

2. THE MULTIPLE WYTHEN TOGETHER WITH LADDER WIRE AT 16 OC. MERTICALLY.

3. CHART AFFLICABLE FOR HOUSE FOUNDATION CALLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT CONYON TO HOUSE.

4. BACKPILL OF CLEAN 51 / 61 WASHED STONE IS ALLOWABLE.

5. BACKPILL OF WILL DRAINED OR SAND - GRAVEL MYNINGE SOILS (45 PSF/FT BELOW GRADE) CLASSFIED AS GROWP I ACCORDING TO UNIFIED SOILS CLASSFIEDTING SYSTEM IN ACCORDINGE WITH JABLE RAGIS IC THE 2018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

6. PREP 51. AS FER REGEZ I AND 155/6/22 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL.

MINIMOM 24" LAP SPLICE LENSTH.

1. LOCATE REBAR IN CENTER OF FOUNDATION WALL.

8. WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "5" MORTAR OR 3000 PSI GROUT, USE OF "LOU LIFT 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
SPACING	6'-0' O.C.	4'-0" O.C.
EMBEDMENT	1*	I5' INTO MASONRY 1" INTO CONCRETE

O = 25 3 RING, Om 工 S. N. G. I. N. G. I. N. E. Solo WADE AVE., PHONE. (919) 

SPEED WIND E DESIGN DETAILS I ULTIMATE I JNDATION D MPH. 120

DATE: NOVEMBER 14, 2018 DRAWN BY, IST ENGINEERED BY: JES

D-1 FOUNDATION DETAILS



- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2010 NC RESIDENTIAL BUILDING CODE (NCRC). TARLES AND FIGURES REFERENCED ARE FROM THE 2018 NORC.
- TABLES AND TRUSCES RETEXENCED ARE TRUST HER 2016 NORG.

  SEE THIS SHEET FOR GENERAL DETAILS, REFER TO THE 2016 NORG.

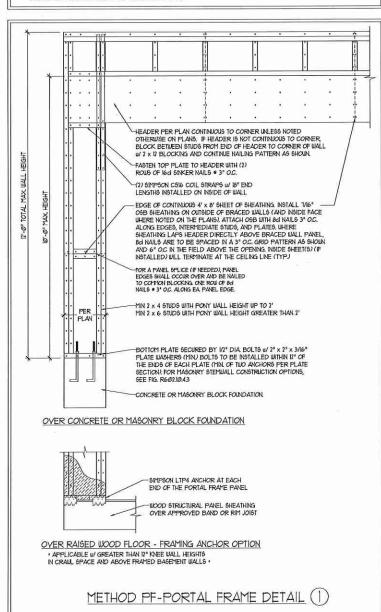
  SEE STRUCTURAL SHEETS FOR ERACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL

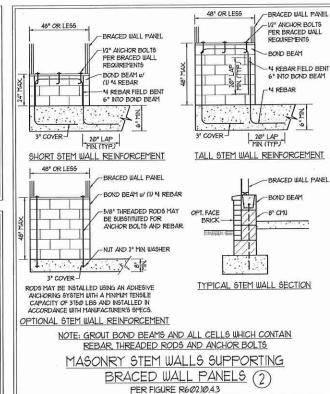
  LINE KEY WITH WALL DESKIN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH C5-WEP IN ACCORDANCE WITH SECTION R6/02/03 UNLESS NOTED
- 5 ALL EXTERIOR AND INTERIOR WALLS TO HAVE IZ GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE
- . ALL EXTERIOR AND INTERIOR WALLS TO HAVE IN' GYPSUM INSTALLED, WEN NOT USING METHOD YES, GYPSUMTO DE-FASTENLED PET JABLE R10/335. HEITHOD BE IT DE FASTENDED PER TABLE R60/120].

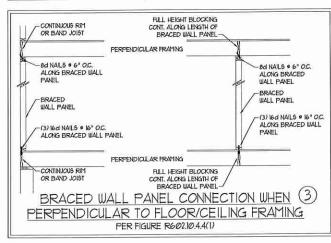
  C.G. USP REPERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PARELS" WALL BRACKING METHOD. 74/6" 058
  SHEATHING IS TO BE INSTALLED ON ALL EXPERIORS WALLS ATTACHED W. OF ACCOMPANIALS OR 8d (2.17" LONG X. 0/113"
  DIAMPETER NAILS SPACED 6" O.C. ALONG PANEL EXCES AND 1" O.C. N. THE FIELD (WIND.

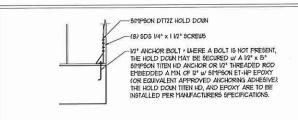
  GIS REPERS TO THE "GYPSUM BOARD" WALL BRACKING HEITHOD. 12" (NIN) GYPSUM WALL BOARD 16 TO BE INSTALLED ON
  BOTH SIDES OF THE BRACED WALL FASTENED WITH 14" SCREWS OR 15/8" NAILS. SPACED 1" O.C. ALONG PANEL EDGES
  AND 110 TO ACCOUNT OF ALL PANELS OF THE STALLED ON A DESCRIPTION OF A COUNTY OF A DESCRIPTION OF A COUNTY OF A STALLED ON A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A STALLED ON A DESCRIPTION OF A DE INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNO.), VERIFY ALL FASTENER OPTIONS FOR VZ." AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R10235. FOR EXTERIOR FASTENER DETIONS SEE TABLE RAW 3(1) EXTERIOR GB TO BE INSTALLED VERTICALLY
- CPTICAS SEE TABLE ROLLSIVE. EXTENDING BIT OF ENGINEED VENTICALLY.

  REQUIRED BRACED WALL EXCHAIN FOR EACH SIDE OF THE CIRCLIFSCRIBED RECTAVALE ARE INTERPOLATED FER TABLE REGO, 103. NETHOD CS-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES IT ACTUAL LENGTH, AND METHOD FF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH.

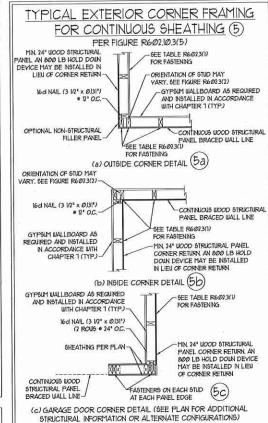


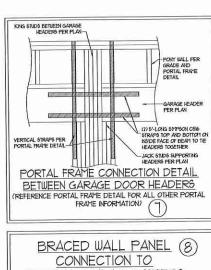


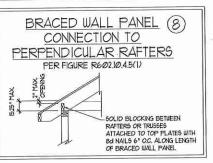


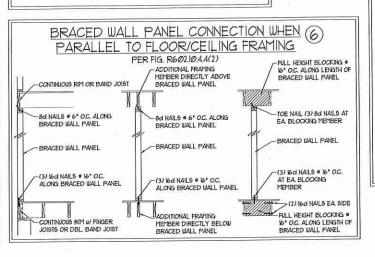


HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB APPLICABLE ONLY WHERE SPECIFIED ON PLAN .





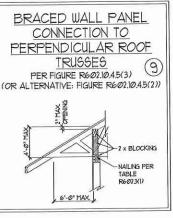




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SPEED WIND STAILS DESIGN W MPH ULTIMATE I BRACING NOTES MPH - 130 WALL 20

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

ENGINEERED BY: JST

D-2 BRACED WALL NOTES AND DETAILS

AND PEDETAIL



### GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFI 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), 2019 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND 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	Ю	L/240 (L/360 W BRITTLE FNISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	1Ø	L/36Ø
FIRE ESCAPES	40	10	L/36Ø
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	1Ø	L/36Ø
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	30	lø .	L/360
STAIRS	40	10	L/360
WND LOAD	(BASED ON TABLE R3/012(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pa	20 (PSF)		

- 1-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R403.16 OF THE NCRC, 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

- 1 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 PERIFETER 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 WINFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRAVED SAND OR GRAVEL MALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAYEL MIXTURE SOILS CLASSIFIED AS GROUP LACCORDING TO THE UNITED SOIL CLASSFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION
- PROPERLY DEWATER EXCAVATION PRIOR TO POURNIG CONCRETE WIEN BOTTOM OF CONCRETE SLAB IS AT OR BELOU WATER TABLE. IF
  APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO IZ HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
  BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NORC, 2019 EDITION, CONCRETE REMPORCING STEEL TO BE ASTM AGE, GRADE 6/0. UELIDED WIRE FABRIC TO BE ASTM AIDS. MAINTAIN A MINIMAL CONCRETE COVER AROUND REPROPERIOR STEEL OF 3" IN FOOTINGS AND 1/2" SLABS, FOR FOUNED CONCRETE WALLS, CONCRETE COVER FOR REMPORCING STEEL MEASURED FROM THE MIDIE FACE OF THE WALL SHALL. NOT BE LESS THAN 3/4" CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL. SHALL NOT BE LESS THAN I V2" FOR 5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR 6 BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402, MORTAR SHALL CONFORM TO ASTM C210.
- 6. THE UNSUPPORTED HEIGHT OF MASCHRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIPENSION FOR UNFILLED HOLLOW CONCRETE MASCHRY UNITS AND TEN TIMES THEIR LEAST DIPENSION FOR SOLID OR SOLID FILLED PIERS, PERS MAY BE FILLED SOLID WITH CONCRETE OR TIME M OR 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASCHRY.
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE TING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS
- 8. ALL CONCRETE AND MASCHIRT FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R464 OF THE NCRC, 2019 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TM3 402. MASCHIRT FOUNDATION WALLS ARE TO BE RENFORCED PER TABLE R404.1K1), R404.1K2), R404.1K3), OR R404.1K4) OF THE NCRC, 2019 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE RENFORCED PER TABLE R4041/5) OF THE NORC 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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### FRAMING NOTES

- 2. LAMINATED VENEER LUMBER (LYL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb =2600 PSI, Fv = 265 PSI, E = 18000000 PSI. LATINATED TRAND LUMBER (FSL.) SHALL HAVE THE POLLOUING MINIMAM PROPERTIES. FO = 2335 FSI, FV = 310 FSI, E = 8500000 FSI.

  PARALLEL STRAND LUMBER (FSL.) UP TO 1" DEPTH SHALL HAVE THE FOLLOUING MINIMAM PROPERTIES. FG = 2500 FSI, E = 18000000 FSI.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

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

4. STEEL BEAYS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 VZ\* AND FULL FLANGE WIDTH (UNO), 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 SCREWS A WOOD FRAMING (2) 1/2" DIA x 4" WEDGE ANCHORS B. CONCRETE

THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM W (2) ROUS OF SELF TAPPING SCREUS . IG" O.C. OR (2) ROUS OF V2" 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 9/6" DIAMETER

- AND (I) KING STUD EACH END (IMO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (INO). INSTALL KING STUDS PER SECTION 86/02/15 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 STUDG NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDG OR LESS ARE TO HAVE I NOT MINIMA BEARING (INO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDG OR OTHER NOTED COLUMN ARE TO BEAR RILLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM BUDS THAT BUITT NTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS, ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PAYELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS FER MANEACTIVEERS SPECIFICATIONS, INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT, FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT
- 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
- 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).
- ACL 4 4 AVE 9 X 9 FOOTS TO BE ROTALED WITH REW LD CAPACITY OF THE CONTROLLED WITH AND THE DETAIL AND THE BEATH AT THE COST OF THE STATE OF THE BAND AT THE DOTAL AND THE BEATH AT THE TOP OF EACH POST, ONE 16' SECTION OF SITPSON CSIG COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TURST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

L ALL FRAMING LUMBER SHALL BE 12 SFF MINIMUM (Fb = 815 PS), Fy = 315 PS), E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 975 PSI, Fv =175 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO)

PARALLEL STRAND LUMBER (PSL) MORE THAN T' DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fo = 2900 PSI, E = 20000000 PSL INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.

ASTM A53, GRADE B, TYPE E OR S

FOLLOUS (UNO):

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 BEAT, AND

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION SHADED SQUARES DENOTE POINT LOADS M ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARN'S HEADERS TO CONFORM TO TABLE R602.1(1) AND R602.1(2) OF THE NCRC, 2016 EDITION OR BE (2) 2 x 6 WITH (1) JACK CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/91) 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 LOCATED AT 6" FROM EACH END (UNO).
- CRITERIA, THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RE0210.
- FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-8" IN LENGTH, REST A 6" x 4" x 5/6" STEEL ANGLE WITH 6" MINIMM EYBEDVENT AT SIDES FOR DRICK SUPPORT (UNO). FOR ALL HEADERS 8'-8" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE
- 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03.82.1 OF THE NCRC, 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
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETUEEN ADJACENT ROOF TRUSSES. STICK
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1600 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE

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> SPEED WIND ( - 130 MPH ULTIMATE DESIGN STANDARD STRUCTURAL NO MPH 20

DATE: NOVEMBER 14, 2015 SCALE: 1/4" - 1'0"

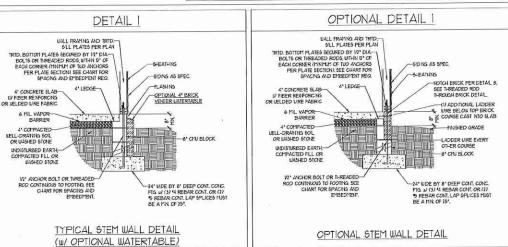
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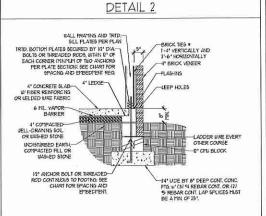
S-0 STRUCTURAL NOTES



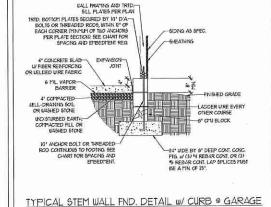
SLAB AT GARAGE DOOR DETAIL

## STEMWALL DETAILS

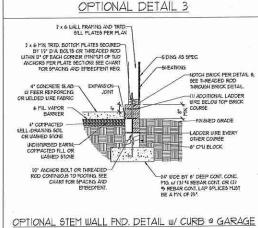


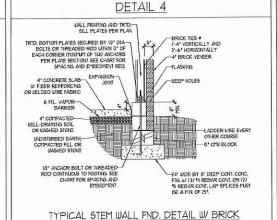


TYPICAL STEM WALL FND. W/ BRICK DETAIL



DETAIL 3





DETAIL 8 1/2" ANCHOR ROD NAIDE EDGE OF MASONRY STEMWALL SPACED PER TABLE LADDER WAR BRICK MASONRY 000 000 000 OUTSIDE EDGE OF BRICK AND STICK FRAMED WALL ABOVE NOTCH BRICK & THREADED

THREADED ROD THROUGH BRICK MASONRY

AND CURB @ GARAGE

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE 4" BRICK AND B" 4" BRICK AND 4" 13, CW7 8" CMU CMJ CM INGROUTED UNGROUTED UNGROUTED 2 AND BELOW UNGROUTED NAROUTED GROUT SOLID INGROUTED SPORT SOLID III A GROUT SOLID W 14 REBAR # 48" O.C. GROUT SOLID GROUT SOLID GROJT SOLID w/ "4 REBAR # 36" O.C. GROUT SOLID #/ 14 GROUT SOLID #/ 14 NOT APPLICABLE REBAR # 36" O.C. REBAR # 64" O.C. GROUT SOLID W 4 GROUT SOLID W 7 REBAR © 24' O.C. REBAR © 64' O.C. GROUT SOLID W/ 14 NOT APPLICABLE REBAR 9 24" O.C.

#### STRUCTURAL NOTES:

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

LIMALL HEIGHT MEASURED PROM TOP OF FOOTING TO TOP OF THE WALL.

2. THE MULTIPLE WITHER TOGETHER WITH LADDER WIRE AT 16' OC. VERTICALLY.

3. CHART APPLICABLE FOR HOUSE FOUNDATION CALT, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.

4. BACCRILL OF CLEAN 57' Not Mashed 510NE 15 ALLOWABLE.

5. BACCRILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (145 PSPIRT BELOW GRADE) CLASS FIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH 12BLE RAWS 10' THE 20'S INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

5. PREP 5LAD FER \$506.21 AND \$506.22 BASE OF THE 20'S INTERNATIONAL RESIDENTIAL CODE.

MINIMUM 21' LAP SPLICE LENGTH.

ENGINEERED DESIGN BASED ON SITE CONDITIONS

MINIMUM 24" LAP SPLICE LENGTH LOCATE REBAR IN CENTER OF FOUNDATION WALL.

LUCATE REDAK IN CENTER OF POUNDATION WALL.

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

ANCH	OR SPACING AND EMBED	OMENT - STEM WALL
WIND ZONE	140 MPH	150 MPH
5PACING	1-9' O.C u/ DOUBLE SILL PLATE u/ 2' x 2" x 1/8" WASHERS	1'-6' OC W/ DOUBLE SILL PLATE W/ 2" x 2" x 1/8" WASHERS
EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W 7° MIN CONCRETE EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 1" MIN CONCRETE EMBEDMENT

WIND ZONE	140 MPH	150 MPH
SPACING	6'-0" O.C. L/ DBL, SILL FLATE OR 1'-9" O.C. u/ SINGLE SILL PLATE u/ 2" x 2" x 1/8" WASHERS	6'-0' OC W DBL SILL PLATE OR I'-6' OC W SINGLE SILL PLATE W 2" x 2" x 1/8" WASHERS
EMBEDMENT	7*	14

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SPEED WIND E DESIGN Y MPH ULTIMATE I FOUNDATION DI 150 MPH. 4

DATE: NOVEMBER 14, 2018 SCALE: NTS AWN BY: JST NOINFERED BY IES

D-1 FOUNDATION DETAILS



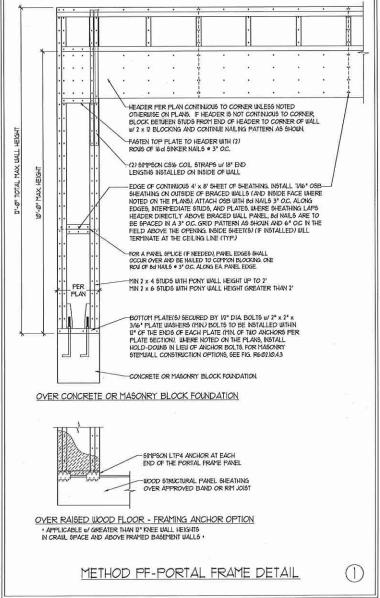
1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NO RESIDENTIAL BUILDING CODE (NORD). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NORD.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORD FOR ADDITIONAL INFORMATION AS NEEDED.
3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DWIENSIONS, HOLD DOWN TYPE AND LOCATIONS, AND ANY

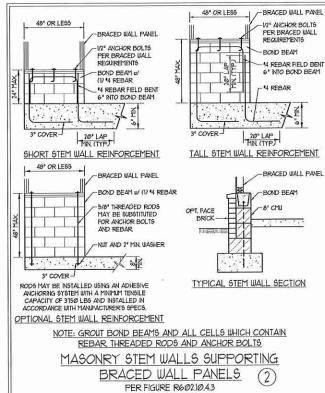
SPECIAL NOTES OR REQUIREMENTS. 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH TIME" OSB WITH BLOCKING AT ALL SHEATHING JOINTS AND 8d NAILS

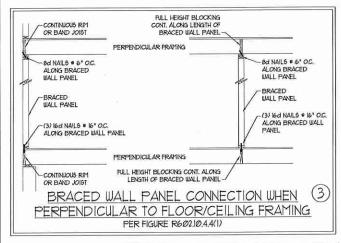
4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH 1/16" ONE WITH BLOCKING AT ALL SHEATHING JOING AND BO ANALS AT 3" CC. ALONG EAGES AND 6" CC. N. THE FILED NIESS NOTED OT DIFERRISE.

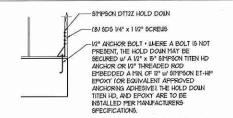
5. SECURE ALL EXTERIOR WALL SHEATHING PAYELS TO DOUBLE TOP PLATES, BAYD JOISTS, AYD GIRDERS WITH (2) ROUS OF BO NAILS STAGESEED AT 3" CC. PAYELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND SILL PLATES THEIR PLL DEPTH.

6. ALL EXTERIOR WALLS TO BE SHEATHED ON INSIDE FACE WITH 1/2" GYPSMT BOARD PER TABLE R10235 (UNO).





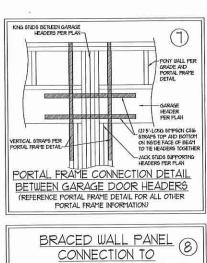


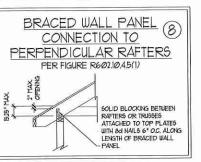


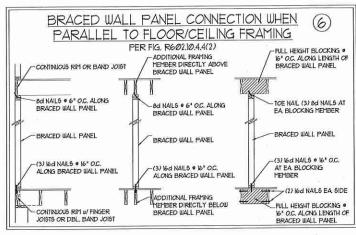
HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB · APPLICABLE ONLY WHERE SPECIFIED ON PLAN ·

FOR CONTINUOUS SHEATHING PER FIGURE R602.10.3(5) MIN 24" WOOD STRUCTURAL ANEL AN 800 LB HOLD DOWN - SEE TABLE R6/023(1) FOR FASTENING DEVICE MAY BE INSTALLED IN - ORIENTATION OF STUD MAY LIEU OF CORNER RETURN VARY, SEE FIGURE R6023(2) 16d NAIL (3 1/2" x Ø131") GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDANCE INTH CHAPTER 1 (TYP) OPTIONAL NON-STRUCTURAL - CONTINUOUS WOOD STRUCTURAL PANEL BRACED WALL LINE SEE TABLE R6/013(1) FOR FARTHING FILLER PANEL (a) OUTSIDE CORNER DETAIL (5a) ORIENTATION OF STUD MAY 16d NAIL (3 1/2" x 0.131") -CONTINUOUS WOOD STRUCTURAL PANEL BRACED WALL LINE SEE TABLE 86/023(1) GYPSIM WALLBOARD AS REQUIRED AND INSTALLED MIN 24" WOOD STRUCTURAL PANEL IN ACCORDANCE WITH CORNER RETURN AN 800 LB HOLD CHAPTER 1 (TYP) DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDANCE WITH CHAPTER 1 (TYP.) 16d NAIL (3 1/2" x Ø.131") (2 ROUS © 24" O.C.--MIN 24" WOOD STRUCTURAL SHEATHING PER PLAN PANEL CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU CONTINUOUS WOOD ASTENERS ON EACH STUD (5c) AT FACH PANEL EDGE (c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

TYPICAL EXTERIOR CORNER FRAMING



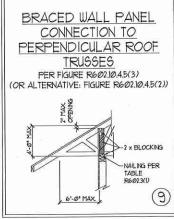




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DATE-NOVEMBER 14, 2015 SCALE: 1/4" = 1'0" DRAWN BY: JST

NGINEERED BY: JST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL



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SPEED WIND DESIGN W MPH ULTIMATE I BRACING NOTES MPH - 150 WALL 1 146

### GENERAL NOTES

- I ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARN'S 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), 2016 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND 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 NORC 2018 EDITION (R3014 R3017).

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 u/ BRITTLE FN/SHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/36Ø
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/36Ø
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/360
PASSENGER YEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	1Ø	L/360
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WND LOAD	(BASED ON TABLE R3Ø12(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	2Ø (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/4800 - FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR 115 AND 120 MFH WIND ZONES, FOUNDATION ANCHORAGE 19 TO COMPLY WITH SECTION R40316 OF THE NORC, 2018 EDITION. FOR 130 MFH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 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 BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIPETER 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 COMPACIED TO ASSURE UNFORM SUPPORT OF THE SLAS, AND EXCEPT UNERS APPROVED, THE HILL DEPTHS SHALL NOT EXCEED 24° FOR CLEAN SAND OR GRAVEL. A 4° THICK BASED COURSE CONSISTENCY CLEAN GRADED SAND OR GRAVEL BHALL 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 CLASSFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NORC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAYATION PRIOR TO POURNIG CONCRETE WHEN BOTTOM OF CONCRETE \$LAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAVED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHINS AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 6.0. WELDED WIKE FABRIC TO BE ASTIT AIDS. MANTAIN A PINITUAL CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS, FOR FOURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL PERSURED FROM THE INSIDE FACE OF THE WALL SHALL SHALL WOT BE LESS THAN 34". 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 CARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/IMS 402, MORTAR SHALL CONFORM TO ASTN C210,
- 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 S 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 MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R4Ø4 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 53Ø/ASCE 5/TMS 4Ø2. MASONRY FOUNDATION WALLS ARE TO BE RENFORCED PER TABLE R404.IXI), R404.IXI), R404.IXI), OR R404.IXI) OF THE NCRC, 20'B EDITION, CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RHOULD OF THE NERC, 20'B EDITION STEP CONCRETE FOUNDATION WALLS 10' I x 6 FRAMED WALLS AT 16' OC. WHERE GRADE FERMINS (MO).

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### FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE 12 SFF MINIMUM (Fb = 815 P6), Fy = 315 P6), E = 16000000 P6)) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 P6), Fy =115 P6), E = 16000000 P6)) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED YENEER LIMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb =2600 P6I, FV = 285 P6I, E = 19000000 P6I. LAMINATED STRAND LIMBER (LSL) SHALL HAVE THE FOLLOUING MINMAM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 15500000 PSI. PARALLEL STRAND LUMBER (PSL.) UP TO 1º DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI, PARALLEL STRAND LUMBER (PSL.) MORE THAN 1º DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 20000000 INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES:

PLATES AND BARS ASTM A36 ASIM ASOM GRADE B HOLLOW STRUCTURAL SECTIONS:

ASIM AS3, GRADE B, TYPE E OR S STEEL PIPE:

4. STEEL BEAYS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARRY LENGTH OF 3 V2\* AND FILL FLANGE WIDTH (INO). PROVIDE SOLID BEARRY FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS

(2) V2" DIA x 4" LONG LAG SCREWS A WOOD FRAMING (2) 1/2" DIA x 4" WEDGE ANCHORS B. CONCRETE (2) V2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (RULLY GROUTED)

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x MAILER ON TOP OF THE STEEL BEAM, AND THE 2x MAILER IS SECURED TO THE TOP OF THE STEEL BEAM W (2) ROUS OF SELF TAPPING SCREUS & IS\* O.C. OR (2) ROUS OF IO\* DIAMETER BOLTS . IG" O.C. IF I/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 R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 UITH (1) JACK. AND (I) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION RE02.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR RULLY ON (1) JACK OR (2) STUDS MINIMAM OR THE NAMEER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/01) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS, ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL 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 R60210.
- 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 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 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UNO). FOR ALL HEADERS 8'-8" AND GREATER IN LEXSTH, BOLT A 6" x 4" x 5/16" STEEL AVALE TO HEADER WITH 1/2" LAG SCREUS AT 2" OC. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 3/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W/ (4) 12d NAILS EA PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03.821 OF THE NCRC, 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 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- 14. FOR TRUSSED ROCFS, FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK RATE OVER-FRATED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 15. 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 SMIPSON HE OR LISIS UPLIFF CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, ONE IS SECTION OF SMIPSON CSIG COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TRIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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SPEED WIND ( DESIGN W 40 MPH.

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

DRAWN BY: JES

SINEERED BY: JST



STRUCTURAL NOTES

ULTIMATE I ND STRUCTU - 150 MPH L STANDARI