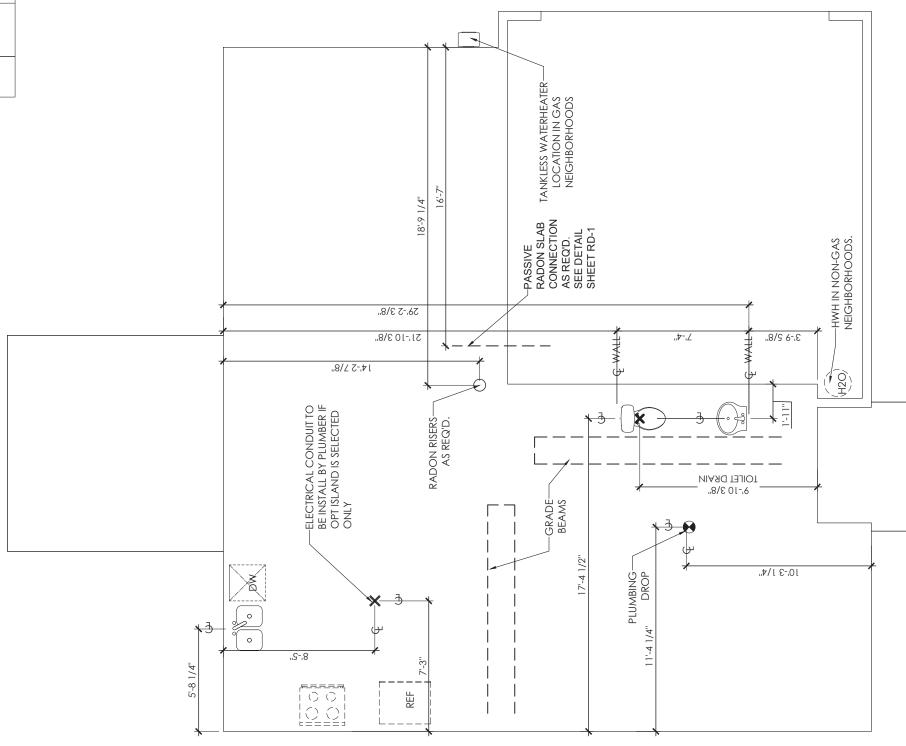
PLUMBING NOTES

PLUMBERS MUST KEEP PLUMBING IN GRADE BEAM AREAS TO A BARE MINIMUM IN ORDER TO ENSURE PROPER STRUCTURAL INTEGRITY OF THE BUILDING. FAILURE TO DO WILL RESULT IN REINSTALLATION OF PLUMBING IN THESE AREAS.

REQUIRED PLUMBING VENTS MUST ALSO BE INSTALLED AND ROUTED TO VENT ON THE REAR SIDE OF THE HOUSE IN ORDER TO PREVENT AN UNSIGHTLY FRONT ELEVATION.



UNDERGROUND PLUMBING PLAN



PORTER III

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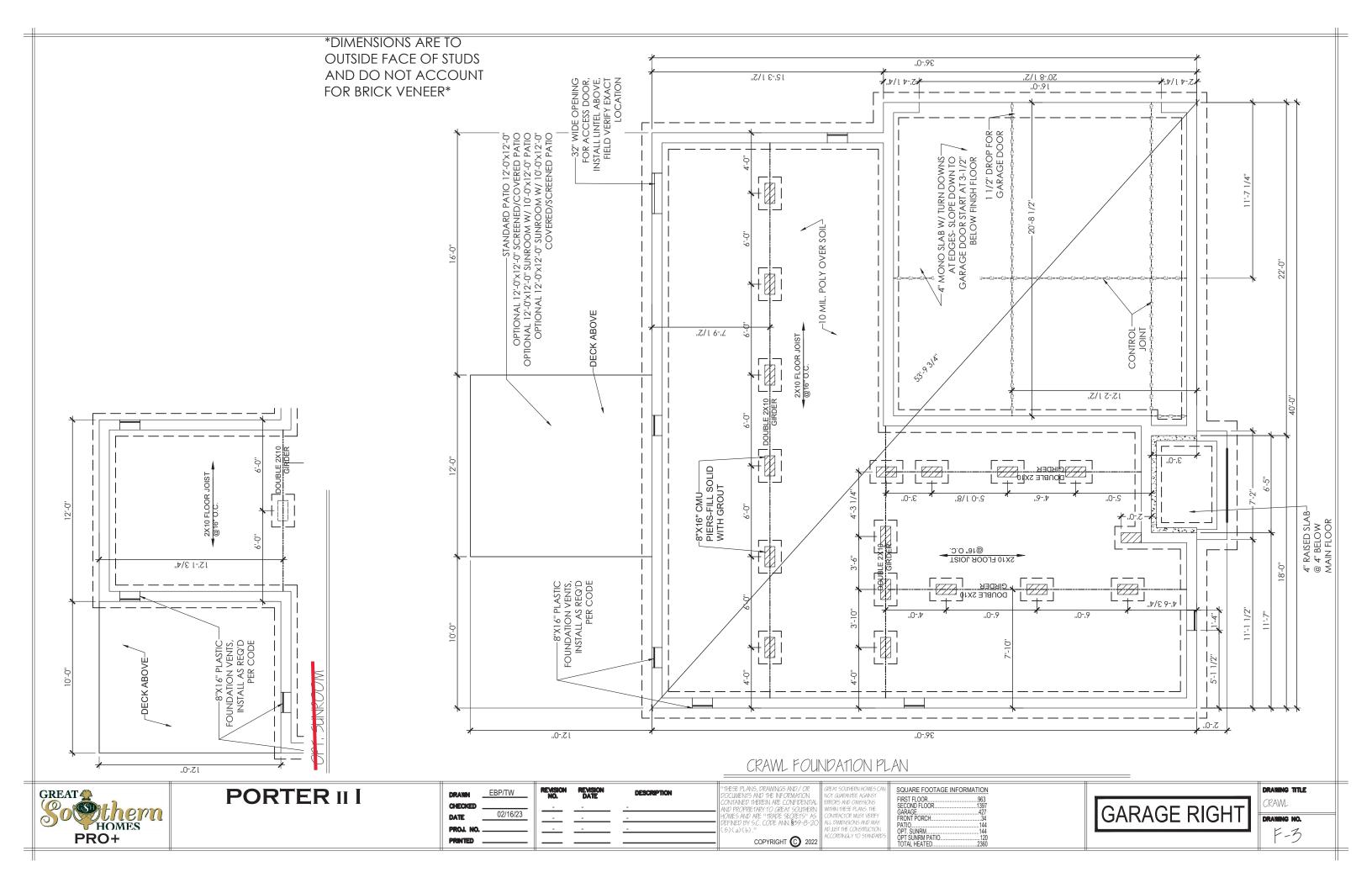
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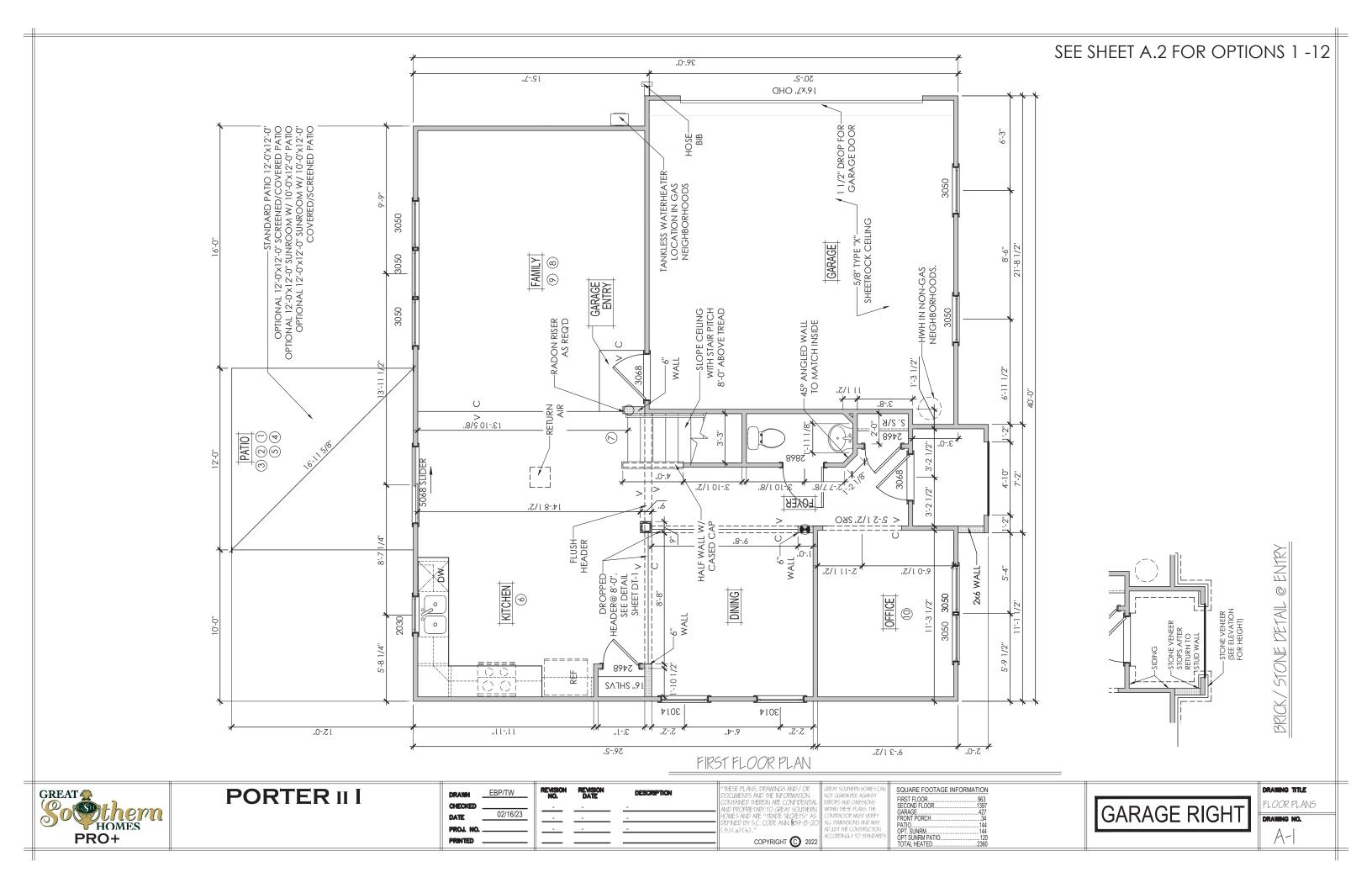
GREAT SOUTHERN HOMES CAN
NOT GUARANTEE AGAINST
ERRORS AND OMISSIONS
WITHIN THESE PLANS. THE
CONTRACTOR MUST VERIFY
ALL DIMENSIONS AND MAY
ADJUST THE CONSTRUCTION

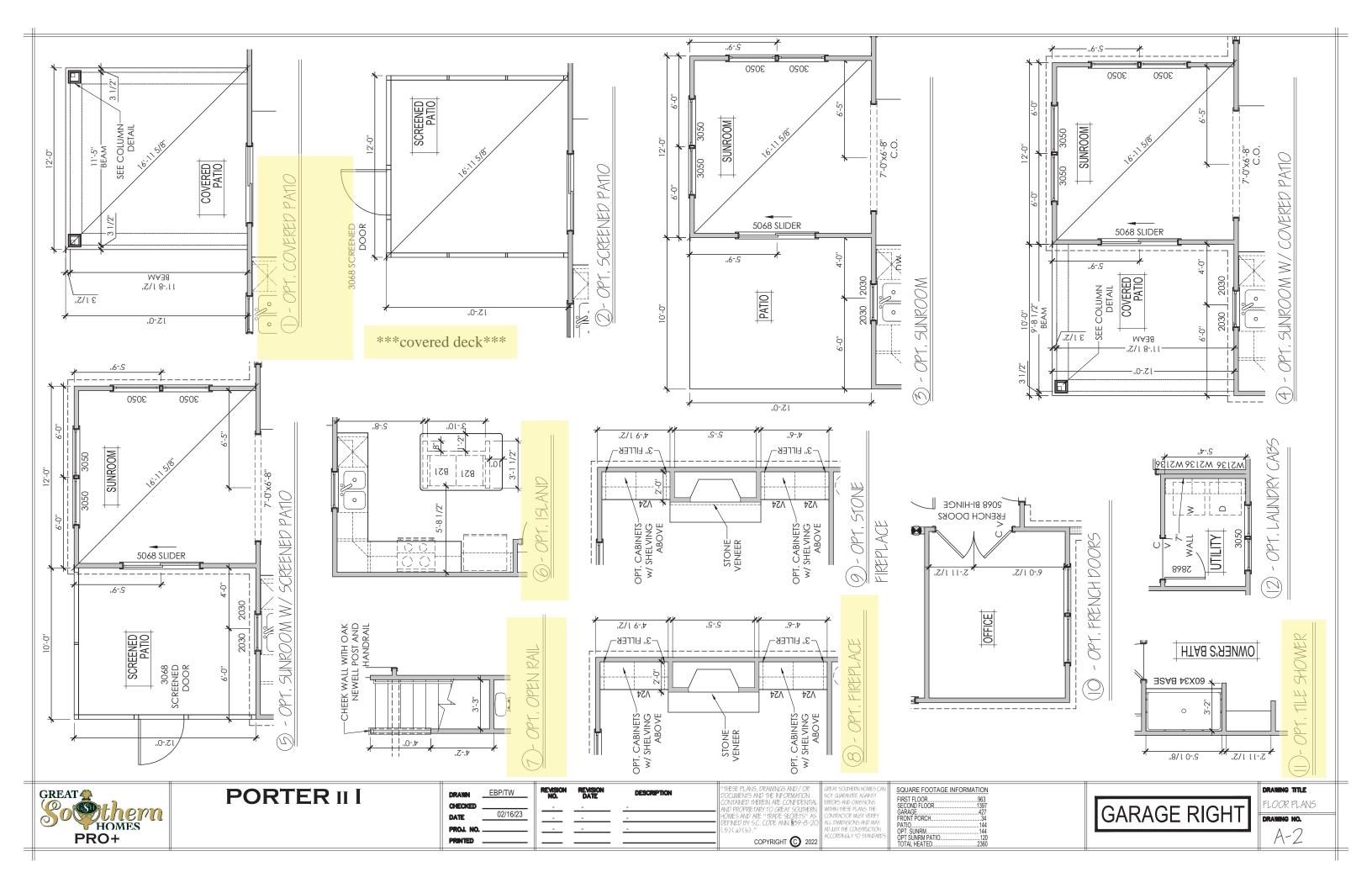
SQUARE FOOTAGE INFORMA	TION
FIRST FLOOR	
SECOND FLOOR	
GARAGE	
FRONT PORCH	34
PATIO	144
OPT. SUNRM	144
OPT SUNRM PATIO	120
TOTAL HEATED	2360



DRAWING TITLE U.G. PLUMBING DRAWING NO. P-1

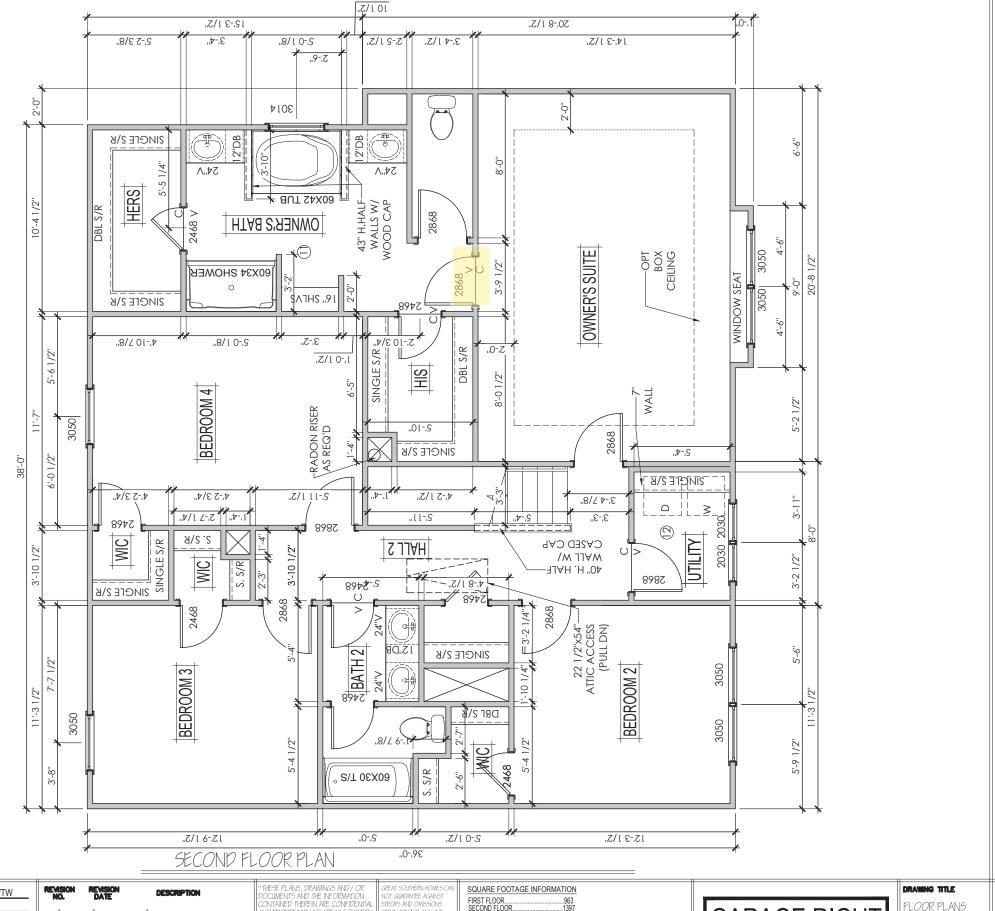






SEE SHEET A-3b FOR WINDOW SEAT DETAILS

FRENCH DOORS TO OWNER'S SUITE BATH





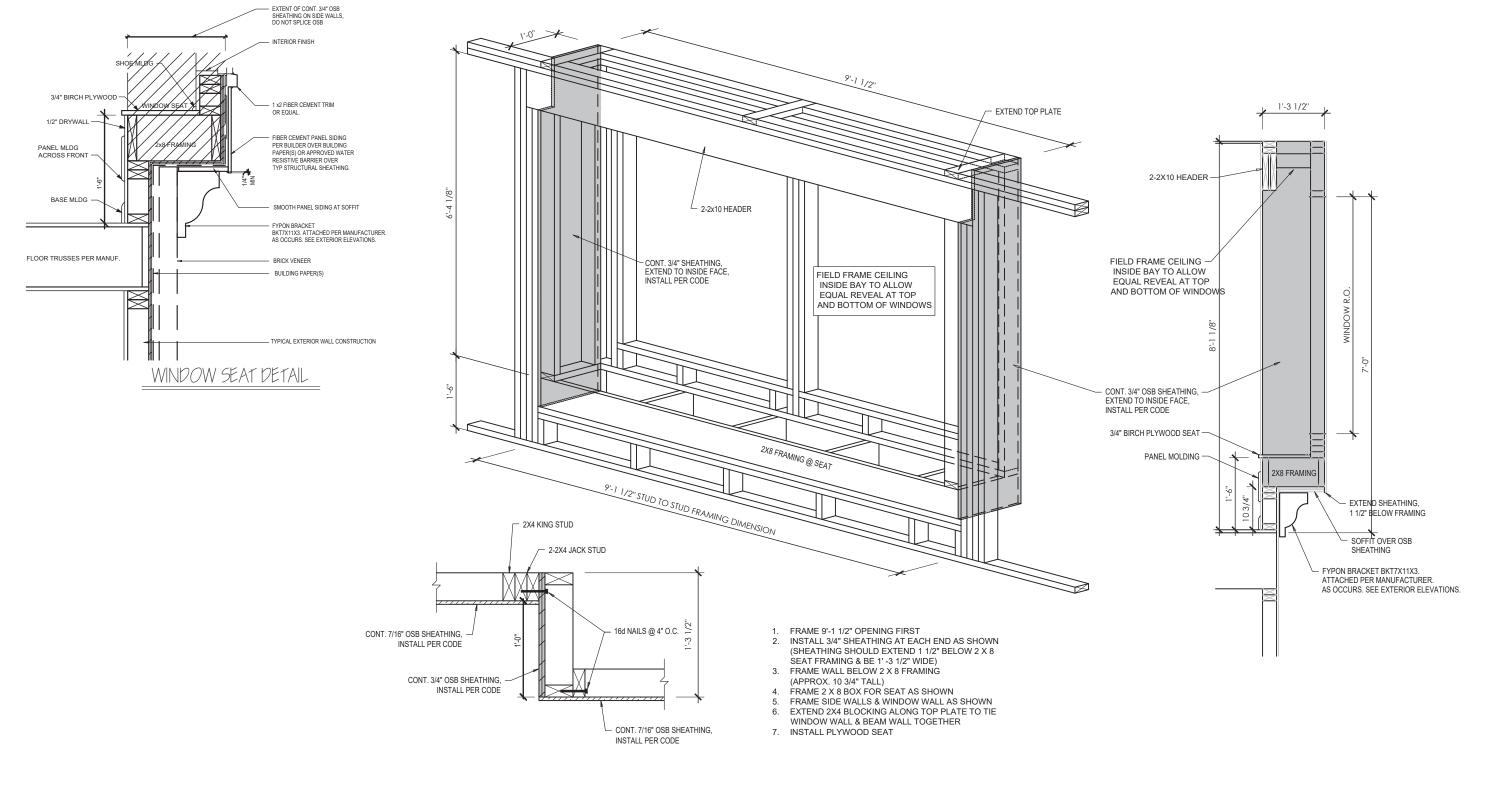
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WINDOW SEAT DETAIL



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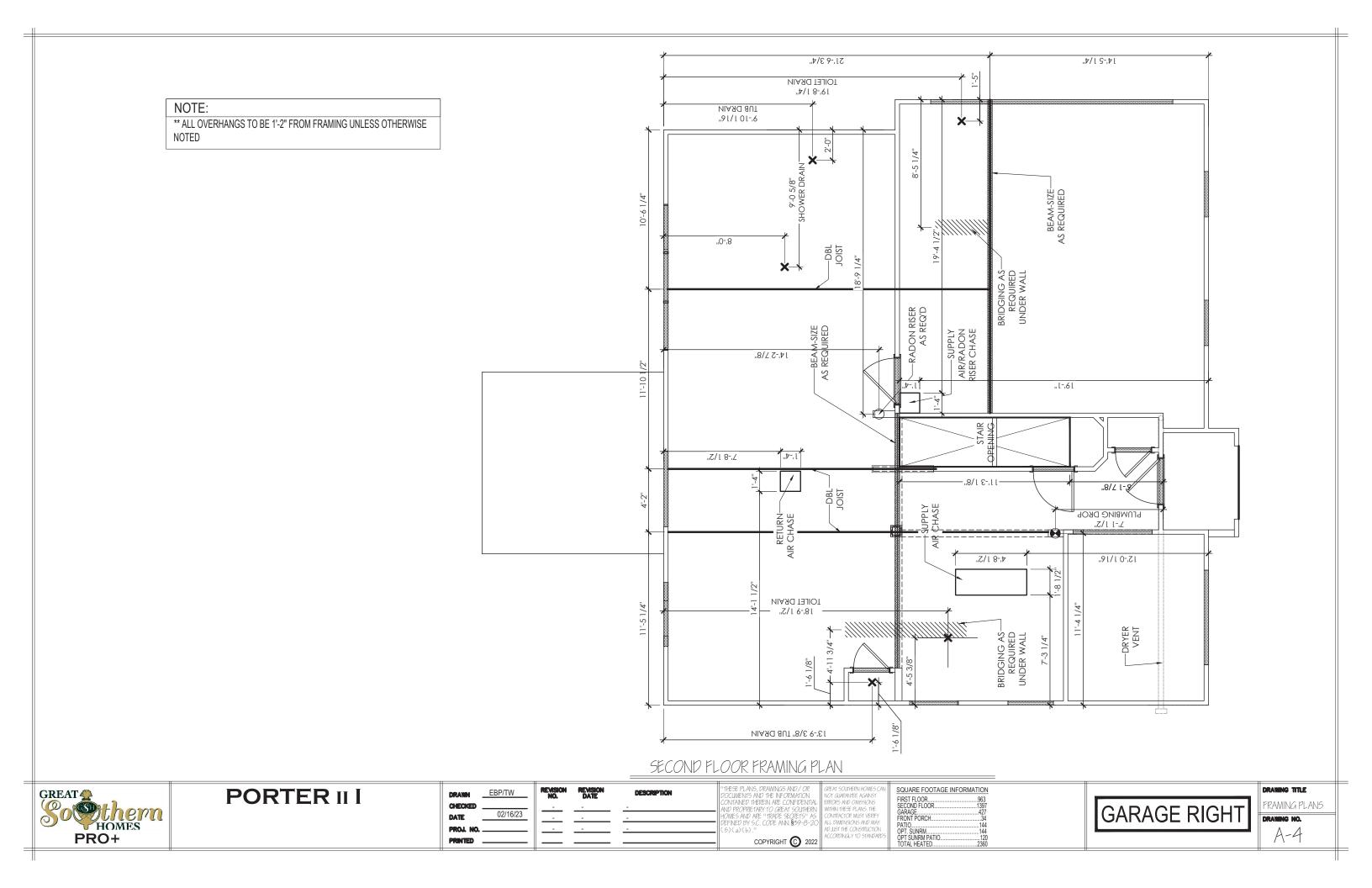
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CONTRACTOR MUST VERIFY ALL DIMENSIONS AND MAY ADJUST THE CONSTRUCTION

SQUARE FOOTAGE INFORMATION FIRST FLOOR..... SECOND FLOOR... GARAGE.... FRONT PORCH.... PATIO..... OPT. SUNRM.... OPT SUNRM PATIO.. TOTAL HEATED....

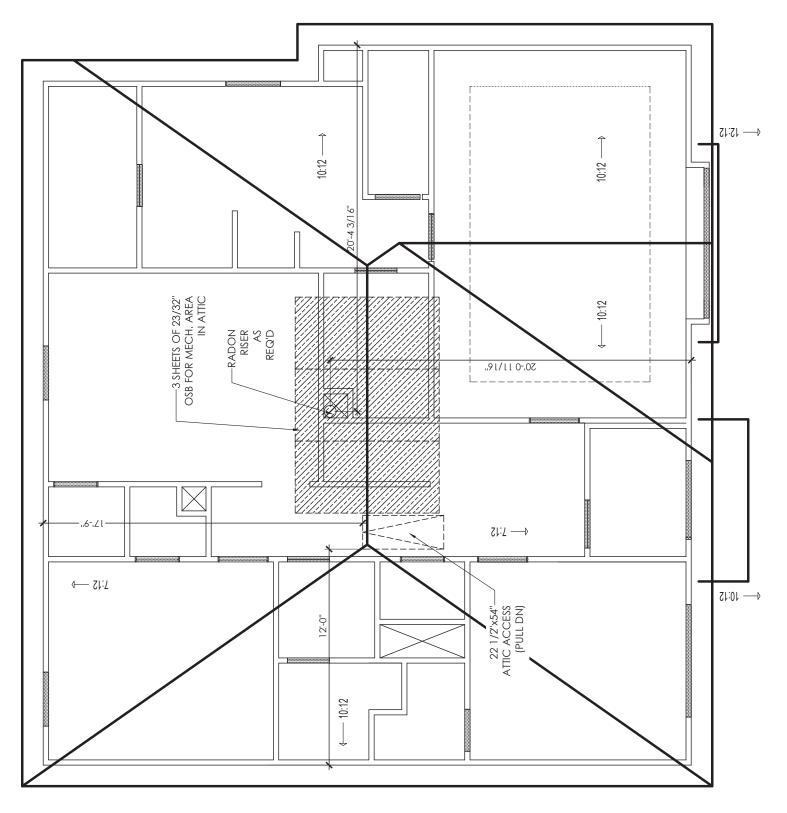
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NOTE:

** ALL OVERHANGS TO BE 1'-2" FROM FRAMING UNLESS OTHERWISE NOTED



ATTIC FRAMING PLAN



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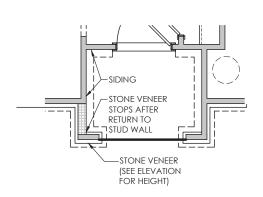
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PRAWING TITLE
FRAMING PLANS

DRAWING NO.

A-5

ADDITIONAL BRICK LEDGE NEEDED AT FRONT TO SUPPORT BRICK VENEER



BRICK / STONE DETAIL @ ENTRY



** ALL OVERHANGS TO BE 1'-2" FROM FRAMING UNLESS OTHERWISE NOTED



ELEVATION- - FRONT

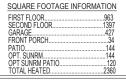


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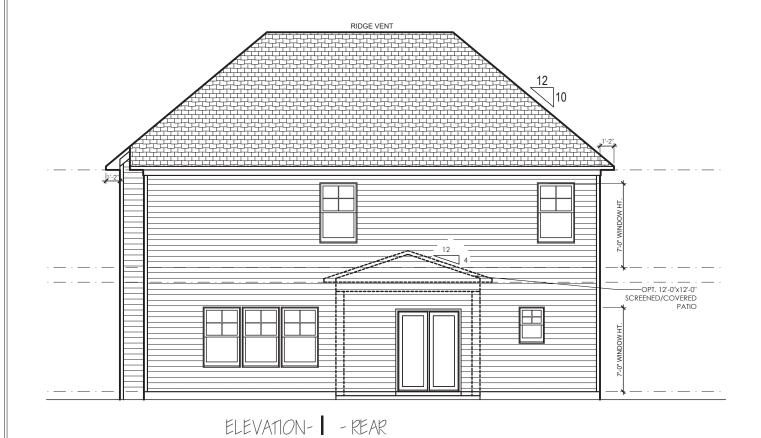
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ELEVATION I

DRAWING NO.
A-6

ADDITIONAL BRICK LEDGE NEEDED AT FRONT TO SUPPORT BRICK VENEER

NOTE:

** ALL OVERHANGS TO BE 1'-2" FROM FRAMING UNLESS OTHERWISE NOTED







PORTER II I

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WITHIN THESE PLANS, THE
TS" AS
CONTRACTOR MIST VERIFY
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 SQUARE FOOTAGE INFORMATION

 FIRST FLOOR.
 963

 SECOND FLOOR.
 1397

 GARAGE.
 427

 FRONT PORCH
 34

 PATIO.
 144

 OPT SUNRM
 144

 OPT SUNRM PATIO.
 120

 OTOTAL HEATED.
 2360

GARAGE RIGHT

DRAWING NO.



* ALLOW FOR SMOKE DETECTORS PER LOCAL CODE REQUIREMENTS (TYPICALLY 1 DOWNSTAIRS, 1 UPSTAIRS IN HALLWAY, & 1 PER BEDROOM)

* ALLOW FOR ONE DOORBELL FOR PRIMARY ENTRY DOOR

* GAS HEAT - OPTION

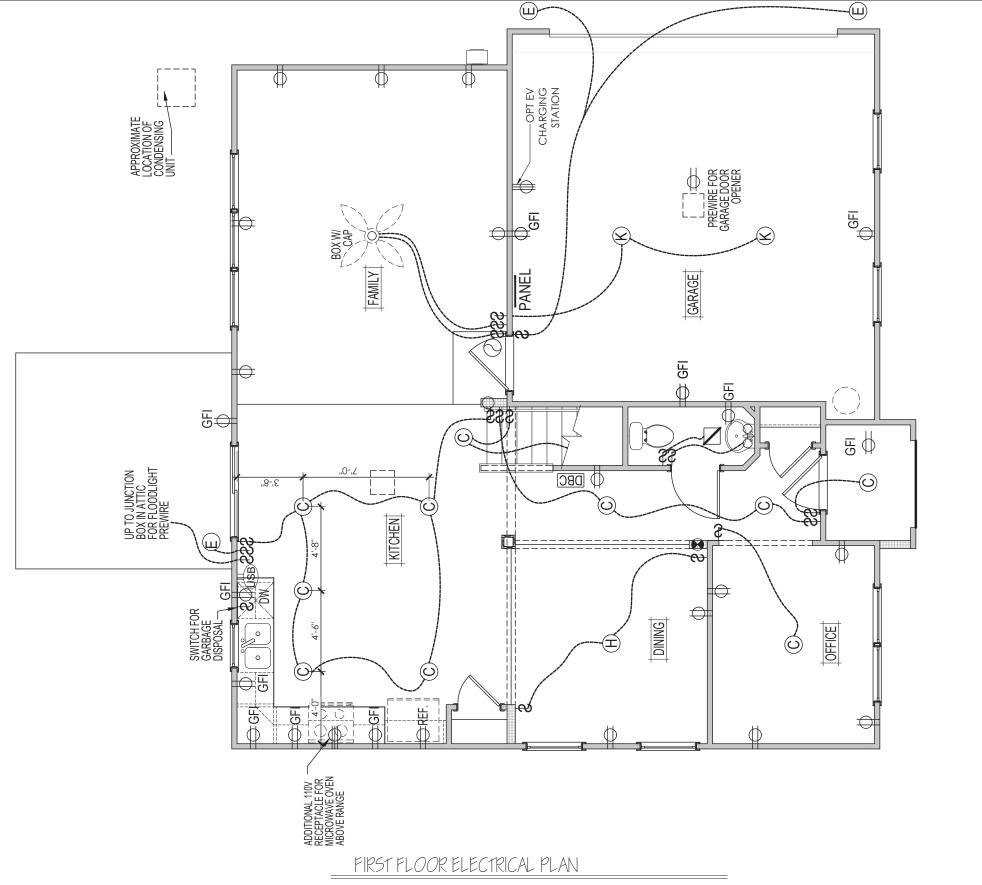
* GAS H20 - OPTION

* PROVIDE CARBON MONOXIDE DETECTORS PER CODE REQUIREMENTS (TYPICALLY W/ GARAGES AND FURNACE AREAS)

* ALLOW FOR GARBAGE DISPOSAL AT KITCHEN SINK.

* ALLOW FOR FIREPLACE IGNITER IF APPLICABLE.

	ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION		
\triangle	PHONE JACK LOCATION		
	CABLE LOCATION		
\circ	DATA LOCATION		
\$	SWITCHBOX		
Ż	Z-WAVE SWITCHBOX / OUTLET		
Ф	110V DUAL RECEPTACLE OUTLET		
•	220V SINGLE RECEPTACLE OUTLET		
	BATH EXHAUST FAN		
(5)	SMOKE DETECTOR		
(USB	110V TECHNOLOGY OUTLET		
DB	EXTERIOR DOORBELL BUTTON		
DBC	DOORBELL CHIME BOX		
ĸ	INTERIOR INCANDESCENT KEYLESS		
E	EXTERIOR ENTRANCE		
000	INTERIOR 3 LIGHT VANITY		
0000	INTERIOR 4 LIGHT VANITY		
X	DOUBLE SWITCH CEILING FAN PREWIRE- NO LIGHT INSTALLATION- CAP ONLY		
©	INTERIOR CAN LIGHT		
+	INTERIOR SURFACE		
H	INTERIOR HANGING		
P	INTERIOR PENDANT LIGHT		
(SI)	INTERIOR STAIR LIGHT		





PORTER II I

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GREAT SOUTHERN HOMES CAN
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ERRORS AND OMISSIONS
WITHIN THESE PLANS. THE
CONTRACTOR MUST VERIEY
ALL DIMENSIONS AND MAY
ADJUST THE CONSTRUCTION
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 SQUARE FOOTAGE INFORMATION

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 SECOND FLOOR
 1397

 GARAGE
 427

 FRONT PORCH
 34

 PATIO
 144

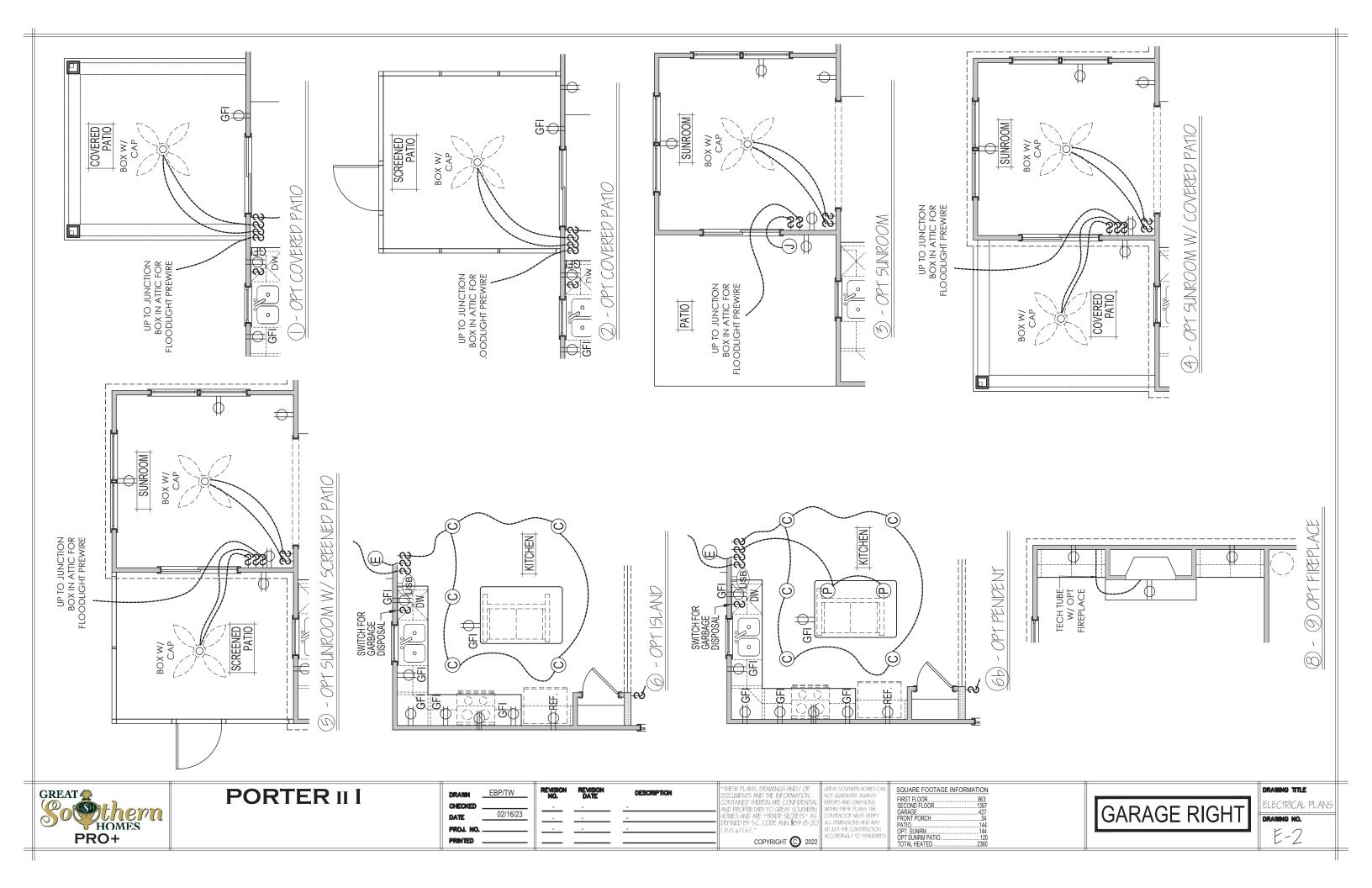
 OPT SUNRM
 144

 OPT SUNRM PATIO
 120

 TOTAL HEATED
 2360

GARAGE RIGHT

DRAWING TITLE
ELECTRICAL PLANS
DRAWING NO.



ELECTRICAL NOTES

* ALLOW FOR SMOKE DETECTORS PER LOCAL CODE REQUIREMENTS (TYPICALLY 1 DOWNSTAIRS, 1 UPSTAIRS IN HALLWAY, & 1 PER BEDROOM)

* ALLOW FOR ONE DOORBELL FOR PRIMARY ENTRY DOOR

* GAS HEAT - OPTION

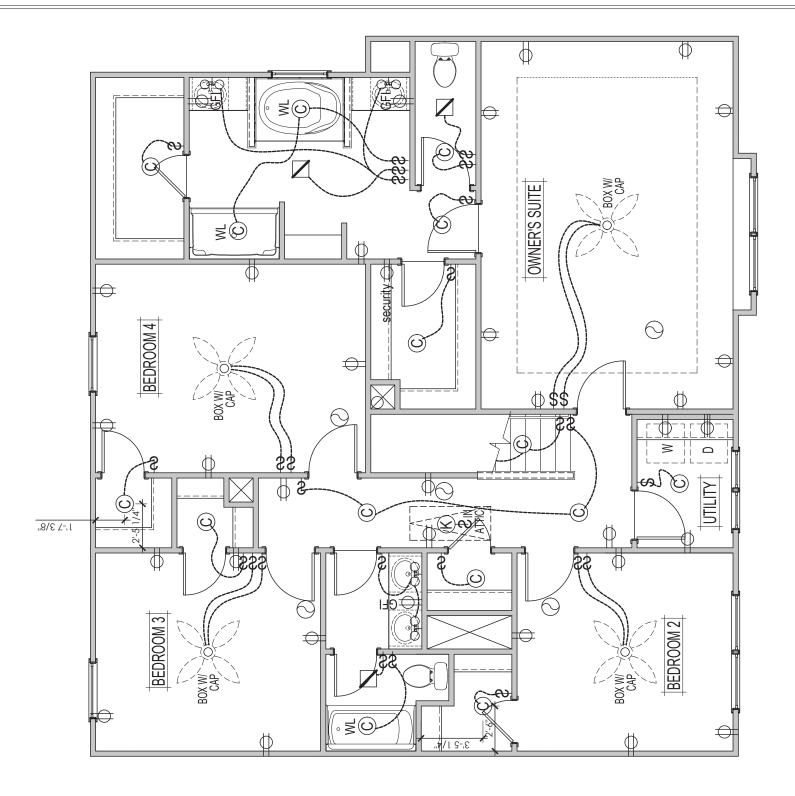
* GAS H20 - OPTION

* PROVIDE CARBON MONOXIDE DETECTORS PER CODE REQUIREMENTS (TYPICALLY W/ GARAGES AND FURNACE AREAS)

* ALLOW FOR GARBAGE DISPOSAL AT KITCHEN SINK.

* ALLOW FOR FIREPLACE IGNITER IF APPLICABLE.

	ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION		
\triangle	PHONE JACK LOCATION		
	CABLE LOCATION		
	DATA LOCATION		
\$	SWITCHBOX		
Ż	Z-WAVE SWITCHBOX / OUTLET		
ф	110V DUAL RECEPTACLE OUTLET		
•	220V SINGLE RECEPTACLE OUTLET		
	BATH EXHAUST FAN		
(5)	SMOKE DETECTOR		
(USB	110V TECHNOLOGY OUTLET		
DB	EXTERIOR DOORBELL BUTTON		
DBC	DOORBELL CHIME BOX		
K	INTERIOR INCANDESCENT KEYLESS		
E	EXTERIOR ENTRANCE		
000	INTERIOR 3 LIGHT VANITY		
0000	INTERIOR 4 LIGHT VANITY		
	DOUBLE SWITCH CEILING FAN PREWIRE- NO LIGHT INSTALLATION- CAP ONLY		
©	INTERIOR CAN LIGHT		
+	INTERIOR SURFACE		
(H)	INTERIOR HANGING		
P	INTERIOR PENDANT LIGHT		
(SI)	INTERIOR STAIR LIGHT		



SECOND FLOOR ELECTRICAL PLAN



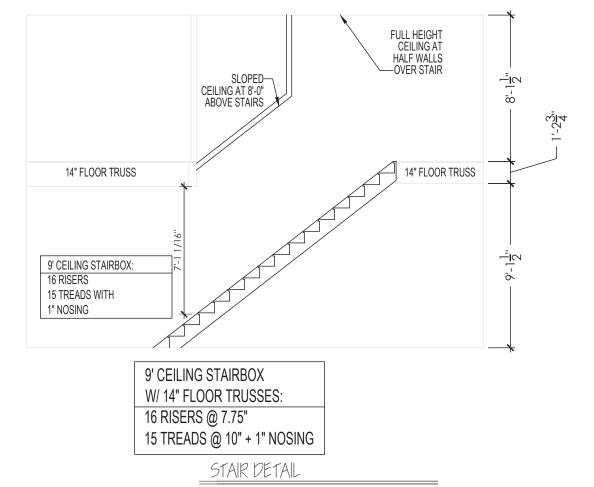
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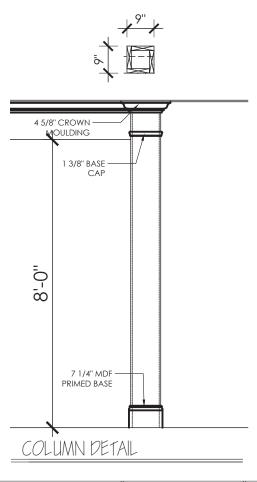
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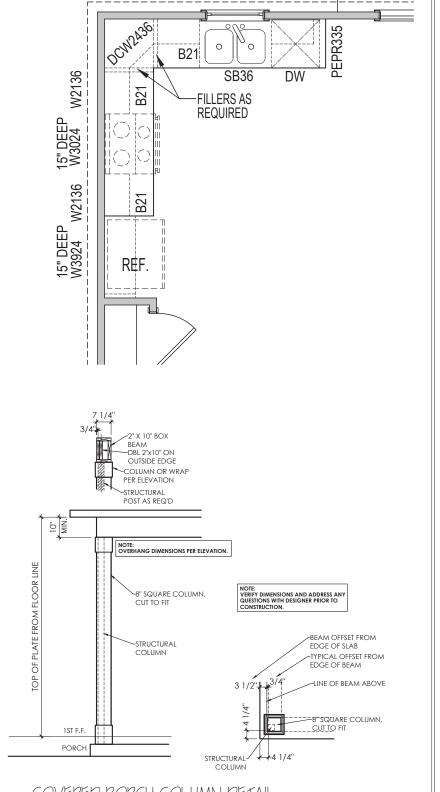
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W2136

COVERED PORCH COLUMN DETAIL



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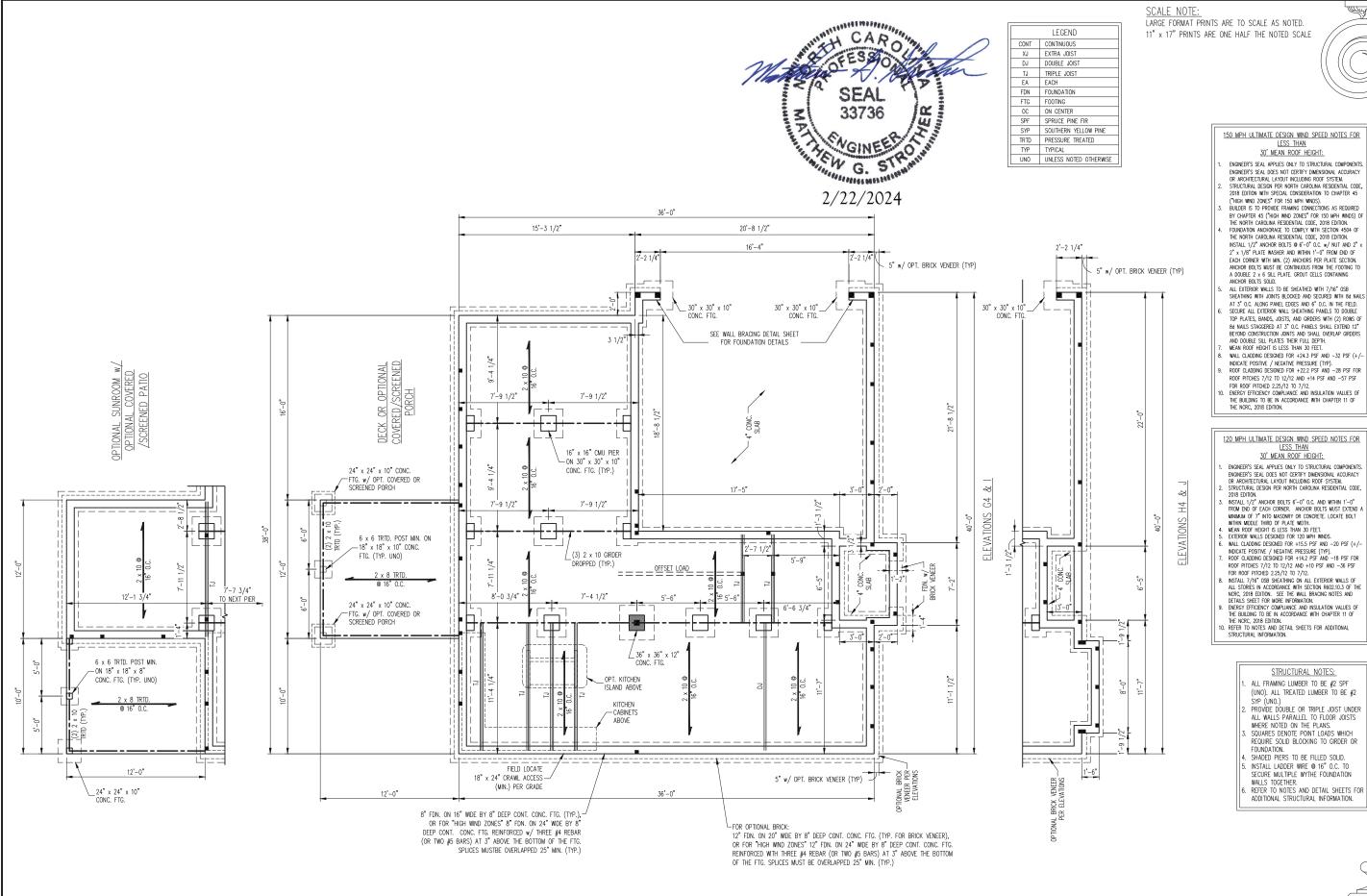
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FIRST FLOOR. 966
SECOND FLOOR. 139
GARAGE 44
FRONT PORCH 3.
PATIO. 14
OPT. SUNRM 44
OPT. SUNRM PATIO. 12
TOTAL HEATED. 236

GARAGE RIGHT

DRAWING TITLE
CABINETS

DRAWING NO.





150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR

- 2" x 1/8" PLATE WASHER AND WITHIN 1'-0" FROM END OF
- SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS SHEATHING WITH JOINT SELUCKELD MILE SECURED WITH 80 NAIL AT 3" CO. ALONG PAREL EDECS AND 6" O.C. IN THE FIELD. SECURE ALL EXTERIOR WALL SHEATHING PARELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GROERS WITH (2) ROBER 80 NAILS STAGERED AT 3" O.C. PARELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL EVERLAP GROERS

- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF
- (UNO), ALL TREATED LUMBER TO BE #2
- ALL WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- SECURE MULTIPLE WYTHE FOUNDATION

TE: FEBRUARY 21, 2024 LE: 1/4" = 1'-0"

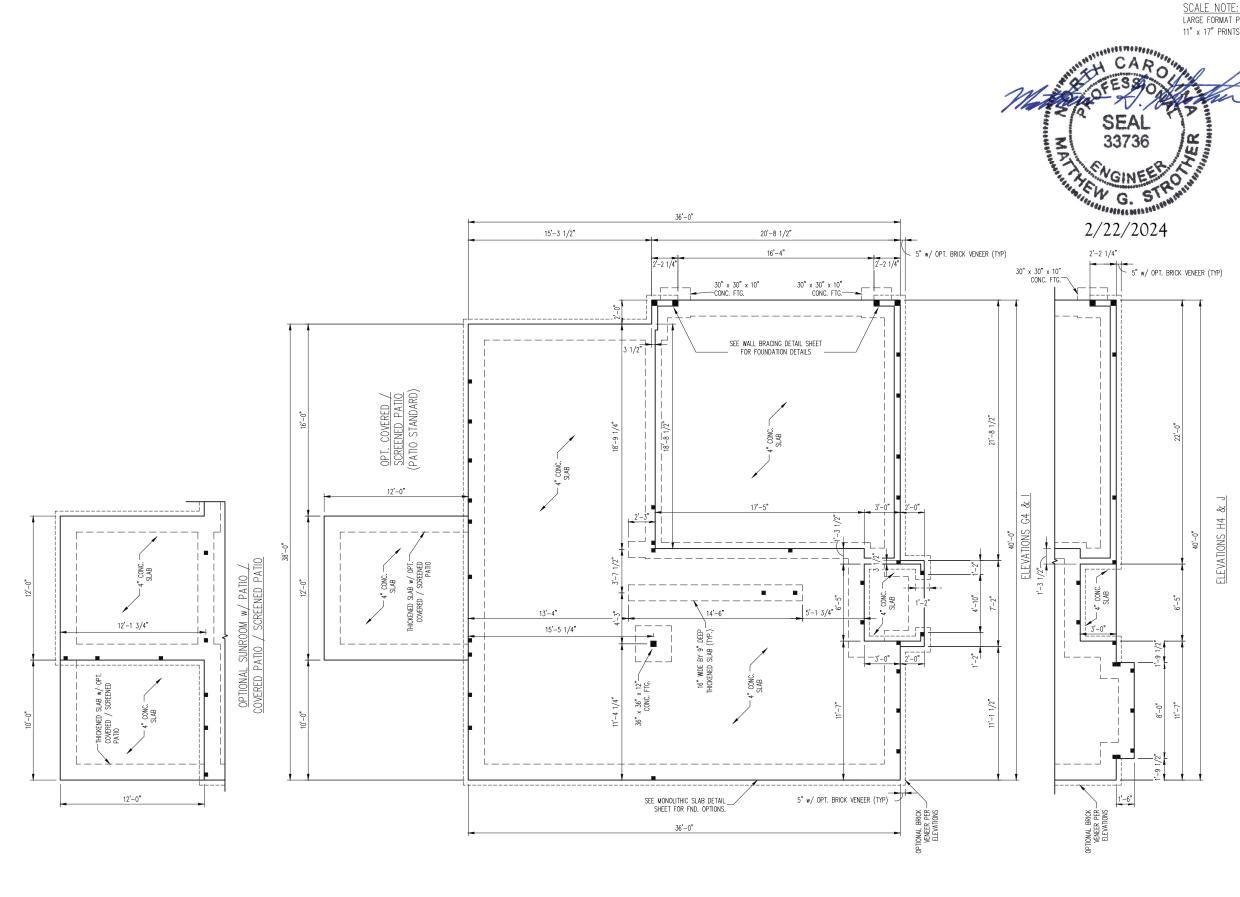
> RAWN BY: GREAT SOU HOMES NEERED BY: WFB

S-1.1 CRAWL FOUNDATION PLAN

Z ഗ ERING, H ഗ

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PORTER II SIDE LOAD- N.C. GREAT SOUTHERN HOMES



11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

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

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL ENONERS'S SEAL, APPLIES ONLY TO SINCULUNAL COMPONENTS. ENONERS'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
 STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZOMES" EOR IS HOUR MUNICAL STRUCTURAL DESIGNATION OF THE STRUCTURAL CODE TO THE STRUCTURAL
- CONSDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS).
 BUILDER IS TO PROVIDE FRAUNG CONNECTIONS AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION, FOUNDATION ANCHORACE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION AND FOUNDATION DETAIL PAGES.
 MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
 WALL CLADION ESIGNED FOR +24.3 PSF AND -32 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESISIES ("TO PRESSIVE").

- -32 PS (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TVP).
 ROOF CLADDING DESIGNED FOR +22.2 PSF AND -28 PSF FOR ROOF PICHES 37/12 TO 12/17.
 AND +14 PSF FAM -57 PSF FOR ROOF PICHED 22.5/12 TO 7/12.
 7/16* OSS 9HACHING IS REQUIRED ON ALL EXTERIOR WALLS.
 WALLS TO BE BRACED IN ACCORDANCE WITH SECTION REQUIL OF THE WORTH CARGUMA RESIDENTIAL CODE, 2018 EDITION AND AS NOTED ON PLANS.

 DENERY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NORCE, 2018 EDITION.

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

- JO. MILEAN ROUT TELISTIT:

 BIGINEER'S SEAL APPLIES ONLY TO STRUCTURAL
 COMPONENTS: ENGINEER'S SEAL DOES NOT CERTIFY
 DIMENSIONAL ACCURACY OR ARCHITECTURAL
 LAYOUT NOLUDING ROOF SYSTEM
 STRUCTURAL DESIGN PER NORTH CAROLINA
 RESIDENTIAL CODE, 2018 EDITION.
 INSTALL 1/2" ANOLOR BOLTS 6"-0" O.C. AND
 WITHIN 1"-0" FROM END OF EACH CORNER.

 MANUAGE BOLTS MATERIAL ANNUMBER OF 2"."
- WITHIN 1"-O' FROM END OF EACH CORNER.
 ANCHER BOLTS MIST EXTERD A MINIMUM OF 7"
 NTO MASONEY OR CONNETTE. LOCATE BOLT WITHIN
 MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
 EXTEROR WALL DESCRIBED FOR 120 MPH WINDS.
 WALL CALODING DESCRIBED FOR 141.5 FSF AND -20
 FSF (4"- NODICATE POSITIVE / NEGATIVE
 PRESSURE (TIP).
 ROOF CALODING DESCRIBED FOR +14.2 FSF AND -18
 FSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10
 FSF AND -36 FSF FOR ROOF PITCHED 225/12 TO
 7/12.

- 7/12.

 3. NISTALL 7/16" OSB SHEATHING ON ALL EXTERIOR
 WALLS OF ALL STORIES IN ACCORDANCE WITH
 SECTION RE02.10.3 OF THE NORG, 2018 EDITION.
 SEE THE WALL BRACING NOTES AND DETAILS SHEET
 FOR NODE INFORMATION.
 VALUES OF THE BUILDING TO BE IN ACCORDANCE
 WITH CHAPTER 11 OF THE NORG, 2018 EDITION.
 REFER TO NOTES AND DETAIL SHEETS FOR
 ADDITIONAL STRUCTURAL INFORMATION.

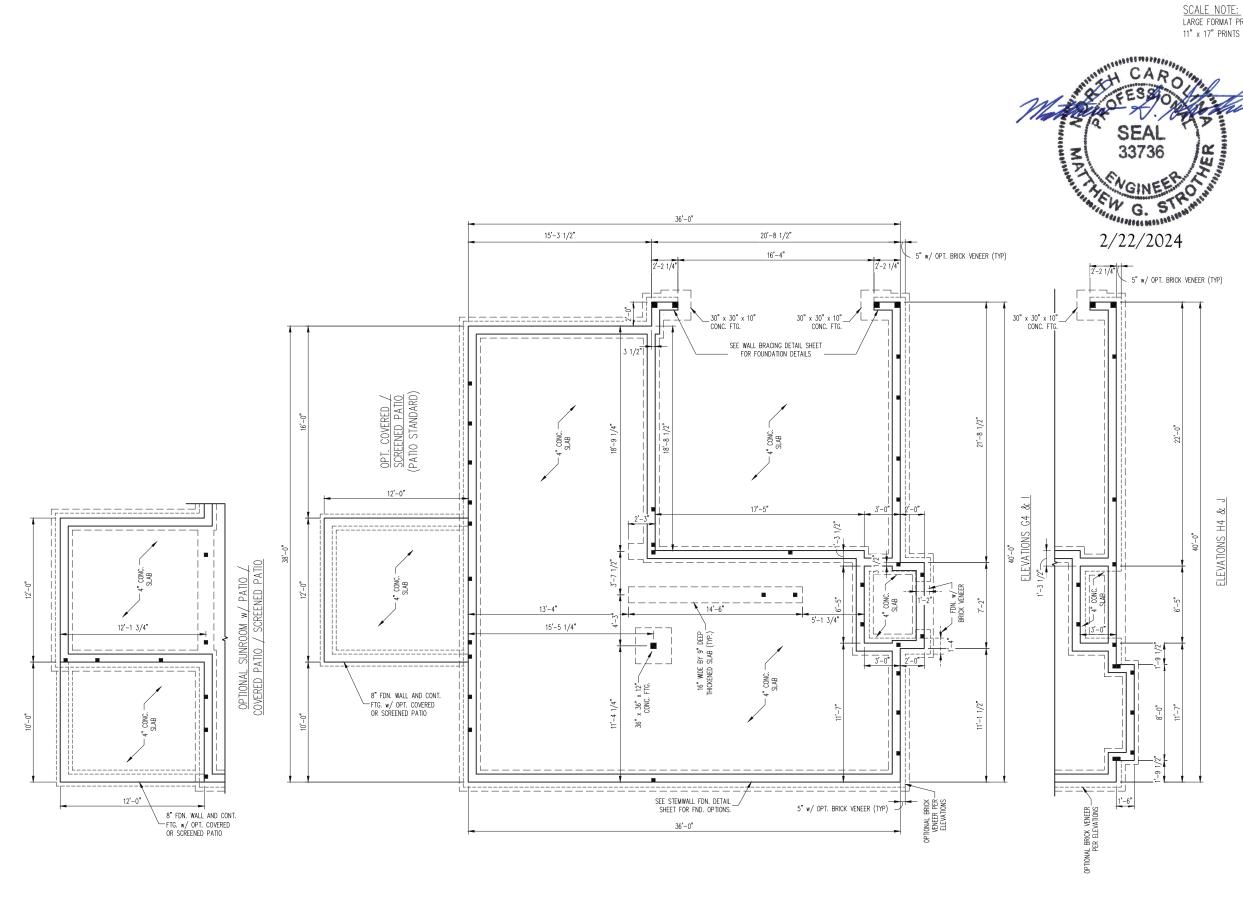
	LEGEND	
CONT	CONTINUOUS	
XJ	EXTRA JOIST	
DJ	DOUBLE JOIST	
TJ	TRIPLE JOIST	
EA	EACH	
FDN	FOUNDATION	
FTG	FOOTING	
OC	ON CENTER	
SPF	SPRUCE PINE FIR	
SYP	SOUTHERN YELLOW PINE	
TRTD	PRESSURE TREATED	
TYP	TYPICAL	
UNO	UNLESS NOTED OTHERWISE	

PORTER II SIDE LOAD- N.C. GREAT SOUTHERN HOMES

J.S. THOMPS ENGINEERING, 333 EAST SIX FORKS ROAD, SUITE 180 RALEIG PHONE, (919) 7800010

TE: FEBRUARY 21, 2024 INEERED BY: WFB

S-1.2 MONO SLAB FOUNDATION PLAN



LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

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

ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL ENGINEER'S SEAL APPLIES ONLY TO SINCULUNAL OOKPONENTS. SONNEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL COMSIDERATION TO CHAPTER 45 ("HIGH WIND SPECIAL COMSIDERATION COMPANY COMP

CONSDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS).
BUILDER IS TO PROVIDE FRAUNG CONNECTIONS AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION, FOUNDATION ANCHORACE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION AND FOUNDATION DETAIL PAGES.
MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
WALL CLADION ESIGNED FOR +24.3 PSF AND -32 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESISIEF (TYPE).

-32 PS (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TVP).

ROOF CLADDING DESIGNED FOR +22.2 PSF AND -28 PSF FOR ROOF PICHES 7/12 TO 12/17.

AND +14 PSF FAM -57 PSF FOR ROOF PICHED 22.5/12 TO 7/12.

7/16* OSS PHACHAINING IS REQUIRED ON ALL EXTERIOR WALLS.

WALLS TO BE BRACED IN ACCORDANCE WITH SECTION REOLZ 10 CF THE WORTH CARGUNA RESIDENTIAL CODE, 2018 EDITION AND AS NOTED ON PLANS.

DENERY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NORCE, 2018 EDITION.

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

JO. MILEAN ROUT TELISTIT:

BIGINEER'S SEAL APPLIES ONLY TO STRUCTURAL
COMPONENTS: ENGINEER'S SEAL DOES NOT CERTIFY
DIMENSIONAL ACCURACY OR ARCHITECTURAL
LAYOUT NOLUDING ROOF SYSTEM
STRUCTURAL DESIGN PER NORTH CAROLINA
RESIDENTIAL CODE, 2018 EDITION.
INSTALL 1/2" ANOLOR BOLTS 6"-0" O.C. AND
WITHIN 1"-0" FROM END OF EACH CORNER.

MANUAGE BOLTS MATERIAL AND MANUAGE ACT.

MANUAGE ROLTS MATERIAL AND MANUAGE ROLTS AND MANUAGE ROLTS AND MATERIAL TOR 2"."

WITHIN 1"-O' FROM END OF EACH CORNER.
ANCHER BOLTS MIST EXTERD A MINIMUM OF 7"
NTO MASONEY OR CONNETTE. LOCATE BOLT WITHIN
MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
EXTEROR WALL DESIGNED FOR 120 MPH WINDS.
WALL CALODING DESIGNED FOR 141.5 FSF AND -20
FSF (4"- NODICATE POSITIVE / NEGATIVE
PRESSURE (TIP).
ROOF CALODING DESIGNED FOR +14.2 FSF AND -18
FSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10
FSF AND -36 FSF FOR ROOF PITCHED 225/12 TO
7/12.

7/12.

3. NISTALL 7/16" OSB SHEATHING ON ALL EXTERIOR
WALLS OF ALL STORIES IN ACCORDANCE WITH
SECTION RE02.10.3 OF THE NORG, 2018 EDITION.
SEE THE WALL BRACING NOTES AND DETAILS SHEET
FOR NODE INFORMATION.
VALUES OF THE BUILDING TO BE IN ACCORDANCE
WITH CHAPTER 11 OF THE NORG, 2018 EDITION.
REFER TO NOTES AND DETAIL SHEETS FOR
ADDITIONAL STRUCTURAL INFORMATION.

LEGEND			
CONTINUOUS			
EXTRA JOIST			
DOUBLE JOIST			
TRIPLE JOIST			
EACH			
FOUNDATION			
FOOTING			
ON CENTER			
SPRUCE PINE FIR			
SOUTHERN YELLOW PINE			
PRESSURE TREATED			
TYPICAL			
UNLESS NOTED OTHERWISE			

I.S. THOMPS ENGINEERING,

PORTER II SIDE LOAD- N.C. GREAT SOUTHERN HOMES

TE: FEBRUARY 21, 2024

S-1.3 STEM WALL FOUNDATION PLAN

INEERED BY: WFB

TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

III IZO MITTI MIND ZONZO			
HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)		
UP TO 3'	1		
> 3' TO 6'	2		
> 6' TO 9'	3		
> 9' TO 12'	4		
> 12' TO 15'	5		

120 MPH ULTIMATE DESIGN WIND SPEED - STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
 INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN (SEE DETAIL THIS SHEET). TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS.
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END
- (UNO.), SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
 SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT 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 $\rm w/1/4"$ THROUGH BOLTS $\rm w/$ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED

MINIMUM NUMBER OF FULL HEIGHT KING

STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS IN 150 MPH WIND ZONES

HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)
UP TO 3'	2
> 3' TO 6'	3
> 6' TO 9'	4
> 9' TO 12'	5
> 12' TO 15'	6

150 MPH ULTIMATE DESIGN WIND SPEED - STRUCTURAL NOTES

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE 2018 NCRC.
- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN (SEE DETAIL THIS SHEET). TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS.
- EXTERÍOR WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (2) KING STUDS EA. END (UNO.). SEE TABLE THIS SHEET FOR ADDITIONAL KING STUD REQUIREMENTS. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
 - S. FOR FIBERCLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG PANEL EDGES AND 6" O.C. IN THE FIELD. 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 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



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PORTER II SIDE LOAD. N.C. GREAT SOUTHERN HOMES

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE, BRACED WALL DESIGN IS NOT PRESCRIPTIVE.
- SHEATH ALL EXTERIOR WALLS W/ 7/16" OSB TO PROVIDE CS-WSP WALL BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCRC 2018 EDITION.

 CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD
- STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

 GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO
- INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH
- CHAPTER 45 OF THE NCRC 2018 EDITION.
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

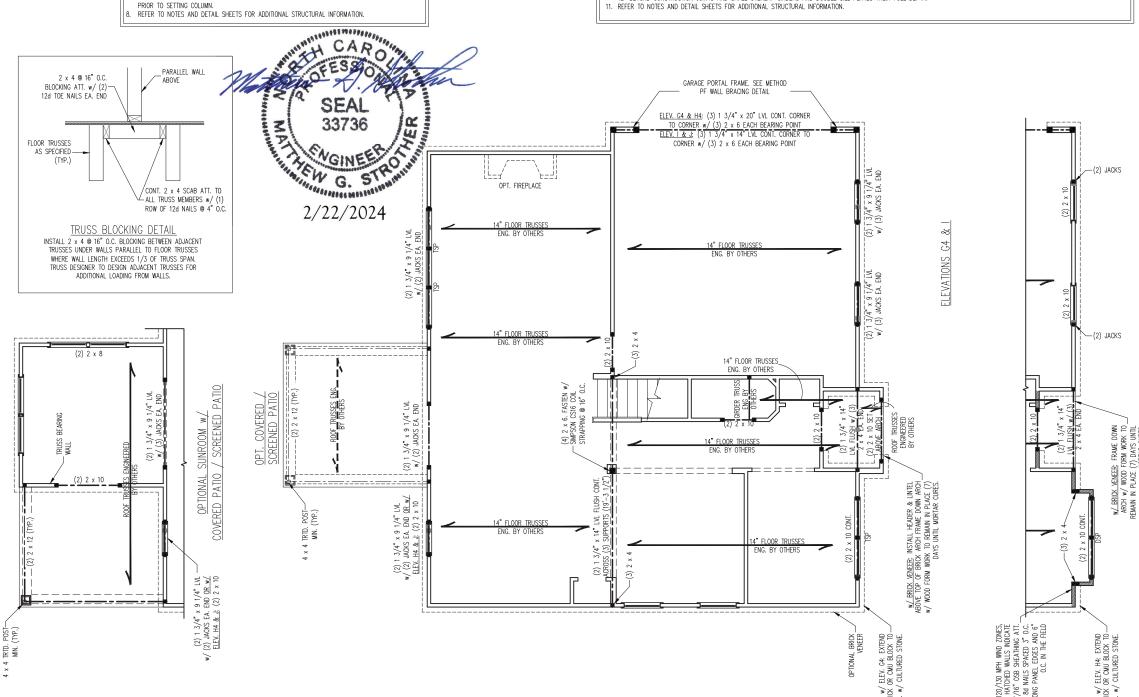
LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT			
LENGTH (FT.)	SIZE OF LINTEL		
UP TO 4 FT.	L 3 1/2 x 3 1/2 x 1/4		
4-8	L 5 x 3 1/2 x 5/16 LLV		
8 AND GREATER	L 6 x 4 x 5/16 LLV		

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS.
- (LLV) = LONG LEG VERTICAL LENGTH = CLEAR OPENING
- EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO
- LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
- (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16 STEEL ANGLE TO (2) 2 x 10 BLOCKING w/(2)1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703 8 2 1 OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
 PRECAST REINFORCED CONCRETE LINTELS
- ENGINEERED BY OTHERS MAY BE USED IN LIEU

LEGEND			
CONT	CONTINUOUS		
XJ	EXTRA JOIST		
DJ	DOUBLE JOIST		
TJ	TRIPLE JOIST		
EA	EACH		
() NUMBER OF STUDS DSP DOUBLE STUD POCKET TSP TRIPLE STUD POCKET OC ON CENTER SPF SPRUCE PINE FIR			
		SYP	SOUTHERN YELLOW PINE
		TRTD	PRESSURE TREATED
		TYP	TYPICAL
		UNO UNLESS NOTED OTHERWIS	

E: FEBRUARY 21, 2024 NEERED BY: WFB

> S-2 SECOND FLOOR FRAMING PLAN





BRICK SUPPORT NOTES:

VENEER TO PROVIDE BEARING. FOR ALL HEADERS 8'-0" AND GREATER IN

FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN

MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

IN 120 MFH WHND ZONES			
HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)		
UP TO 3'	1		
> 3' TO 6'	2		
> 6' TO 9'	3		
> 9' TO 12'	4		
> 12' TO 15'	5		

120 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO). ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.

 SQUARES DENOTE POINT LOADS WHICH REQUIRE
- SOLID BLOCKING TO GIRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO.) REFER TO NOTES AND DETAIL SHEETS FOR
- ADDITIONAL STRUCTURAL INFORMATION.

MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS IN 150 MPH WIND ZONES

HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)		
UP TO 3'	2		
> 3' TO 6'	3		
> 6' TO 9'	4		
> 9' TO 12'	5		
> 12' TO 15'	6		

150 MPH ULTIMATE DESIGN WIND SPEED - STRUCTURAL NOTES

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE 2018 NCRC.
- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO). EXTERIOR WINDOW AND DOOR HEADERS TO BE SUPPORTED \mathbf{w} / (1) JACK STUD AND (2) KING STUDS EA. END (UNO.). SEE TABLE THIS SHEET FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE
- ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG PANEL EDGES AND 6" O.C. IN THE FIELD.
- 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 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.

MINDOW AIL THIS

ELEVATIONS 64

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

SCALE NOTE:

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SEE WINDOW DETAIL THIS

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



BRACED WALL DESIGN NOTES:

BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE, BRACED WALL DESIGN IS NOT PRESCRIPTIVE.

SHEATH ALL EXTERIOR WALLS W/ 7/16" OSB TO PROVIDE CS-WSP WALL BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCRC 2018 EDITION.

. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD."

- STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND
- 00 VAILS STACED O V.C. ALUNG PANEL EDGES AND 12" O.C. IN THE FIELD. 6. GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO
- 130 MPH. FOR HIGH WIND ZONES, BRACED WALLS
 ARE TO BE CONSTRUCTED IN ACCORDANCE WITH

CHAPTER 45 OF THE NORC 2018 EDITION.

SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION. LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT LENGTH (FT.) UP TO 4 FT. 8 AND GREATER BRICK SUPPORT NOTES: AND LOCATION OF OPENINGS. (LLV) = LONG LEG VERTICAL LENGTH = CLEAR OPENING VENEER TO PROVIDE BEARING.
FOR ALL HEADERS 8'-0" AND GREATER IN 1/2" LAG SCREWS @ 12" O.C. STAGGERED. FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

UNO UNLESS NOTED OTHERWISE

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SIZE OF LINTEL L 3 1/2 x 3 1/2 x 1/4 L 5 x 3 1/2 x 5/16 LLV L 6 x 4 x 5/16 LLV

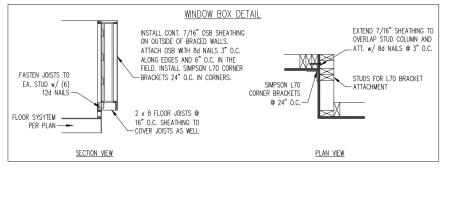
- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE
- EMBED ALL ANGLE IRONS MIN 4" FACH SIDE INTO
- LENGTH, ATTACH STEEL ANGLE TO HEADER W/
- (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1 OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.

	LEGEND		
CONT CONTINUOUS			
XT EXTRA TRUSS			
TS	TRUSS SUPPORT		
EA	EACH		
() NUMBER OF STUDS DSP DOUBLE STUD POCKET TSP TRIPLE STUD POCKET OC ON CENTER			
		SPF	SPRUCE PINE FIR
		SYP	SOUTHERN YELLOW PINE
		TRTD	PRESSURE TREATED
TYP	TYPICAL		
LINO	LINI ECC NOTED OTHERWISE		

TE: FEBRUARY 21, 2024 INEERED BY: WFB

PORTER II SIDE LOAD. N.C. GREAT SOUTHERN HOMES

S-3 CEILING FRAMING PLAN



GIRDER TRUSS ENGINEERED OPT, TRAY CEILING RUSSES ENGINEERED

GIRDER TRUSS ENGINEERED BY OTHERS w/ ELEV. G4 & I

(2) 2 (2) 2 3 ELEV.



2/22/2024

G.

SCREENED PATIO

SUNROOM w/ COVERED OR

OPT.

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE J.S. THOMPS ENGINEERING, 333 EAST SIX PORKS ROAD, SUITE 180 RALER PHONE (1919) 7802010 T.Y.

BRICK SUPPORT NOTE:

FASTEN (2) 2 x 10 BLOCKING BETWEEN WALL STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1. OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.

WHERE ROOF SLOPES EXCEED 7:12, INSTALL 3"
× 3" x 1/4" STEEL PLATE STOPS AT 24" O.C.
PER SECTION R703.8.2.1 OF THE NORTH
CAROLINA RESIDENTIAL CODE, 2018 EDITION.

150 MPH ULTIMATE DESIGN WIND SPEED ROOF STRUCTURAL NOTES:

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE 2018 NCRC.
- ALL FRAMING LUMBER TO BE #2 SPF (UNO). . SECURE EA. RAFTER OR TRUSS TO BEARING WALL W/
- (2) SIMPSON H2.5A OR (1) SIMPSON H10A HURRICANE TIE (OR EQUAL) UNLESS NOTED OTHERWISE BY TRUSS ENGINEER BASED ON DESIGN UPLIFT FOR EA. TRUSS.
- ROOF SHEATHING PANELS TO BE 7/16" MINIMUM THICKNESS. SECURE PANELS TO RAFTERS OR
 TRUSSES w/ 10d NAILS AT 6" O.C. ALONG EDGES AND 12" O.C. IN THE FIELD.ATTACH SHEATHING TO GABLE FRAMING AT 4" O.C.. INSTALL 2x BLOCKING AT SHEATHING JOINTS,
- INCLUDING RIDGES, IN THE END TWO RAFTER OR TRUSS SPACES.
- . STICK FRAME OVER-FRAMED ROOF SECTIONS w/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
- FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
- . REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

120 MPH ULTIMATE DESIGN WIND SPEED ROOF STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO). STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8
- RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS.
 FASTEN FLAT VALLEYS TO RAFTERS WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS
- HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
- STRUCTURAL INFORMATION.

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PITCHES, PLATE HEIGHTS, DIMENSIONS, OVERHANG WIDTHS, AND ATTIC VENT CALCS.

	LEGEND
XT	EXTRA TRUSS
TS	TRUSS SUPPORT
XR	EXTRA RAFTER
RS	RAFTER SUPPORT
CONT	CONTINUOUS
EA	EACH
0C	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TYP	TYPICAL
UN0	UNLESS NOTED OTHERWISE

INEERED BY: WFB

S-4a

ROOF TRUSSES ENGINEERED BY OTHERS 7:12 → OPT COVERED F ← 7:12 TRUSS SUPPORT 10:12 → GIRDER TRUSS ENGINEERED BY OTHERS EW G. ST 2/22/2024

GIRDER TRUSS ENGINEERE BY OTHERS 2 x 6 RAFT @ 16" ELEVATIONS G4 & 1

PORTER II SIDE LOAD- N.C. GREAT SOUTHERN HOMES

REFER TO SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS.
REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL

ROOF FRAMING PLAN

TE: FEBRUARY 21, 2024

7:12 → ← 7:12 SUNROOM / SUNROOM w/ COVERED OR TRUSS SUPPORT ROOF TRUSSES TRUSS SUPPORT SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE BRICK SUPPORT NOTE:

FASTEN (2) 2 x 10 BLOCKING BETWEEN WALL STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1. OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.

WHERE ROOF SLOPES EXCEED 7:12, INSTALL 3"
× 3" x 1/4" STEEL PLATE STOPS AT 24" O.C.
PER SECTION R703.8.2.1 OF THE NORTH
CAROLINA RESIDENTIAL CODE, 2018 EDITION.

150 MPH ULTIMATE DESIGN WIND SPEED ROOF STRUCTURAL NOTES:

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE 2018 NCRC.
- ALL FRAMING LUMBER TO BE #2 SPF (UNO). . SECURE EA. RAFTER OR TRUSS TO BEARING WALL W/
- (2) SIMPSON H2.5A OR (1) SIMPSON H10A HURRICANE TIE (OR EQUAL) UNLESS NOTED OTHERWISE BY TRUSS ENGINEER BASED ON DESIGN UPLIFT FOR EA. TRUSS.
- ROOF SHEATHING PANELS TO BE 7/16" MINIMUM THICKNESS. SECURE PANELS TO RAFTERS OR
 TRUSSES w/ 10d NAILS AT 6" O.C. ALONG EDGES AND 12" O.C. IN THE FIELD.ATTACH SHEATHING TO GABLE FRAMING AT 4" O.C.. INSTALL 2x BLOCKING AT SHEATHING JOINTS,
- INCLUDING RIDGES, IN THE END TWO RAFTER OR TRUSS SPACES.
- STICK FRAME OVER-FRAMED ROOF SECTIONS w/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
- FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
- . REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

120 MPH ULTIMATE DESIGN WIND SPEED ROOF STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO). STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8
- RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 FASTEN FLAT VALLEYS TO RAFTERS WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS
- HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS. REFER TO SECTION R802.11 OF THE 2018 NCRC FOR
- REQUIRED UPLIFT RESISTANCE AT RAFTERS.
 REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL
- STRUCTURAL INFORMATION.

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PITCHES, PLATE HEIGHTS, DIMENSIONS, OVERHANG



2/22/2024

ELEVATIONS H4 & J

XR	EXTRA RAFTER
RS	RAFTER SUPPORT
CONT	CONTINUOUS
EA	EACH
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

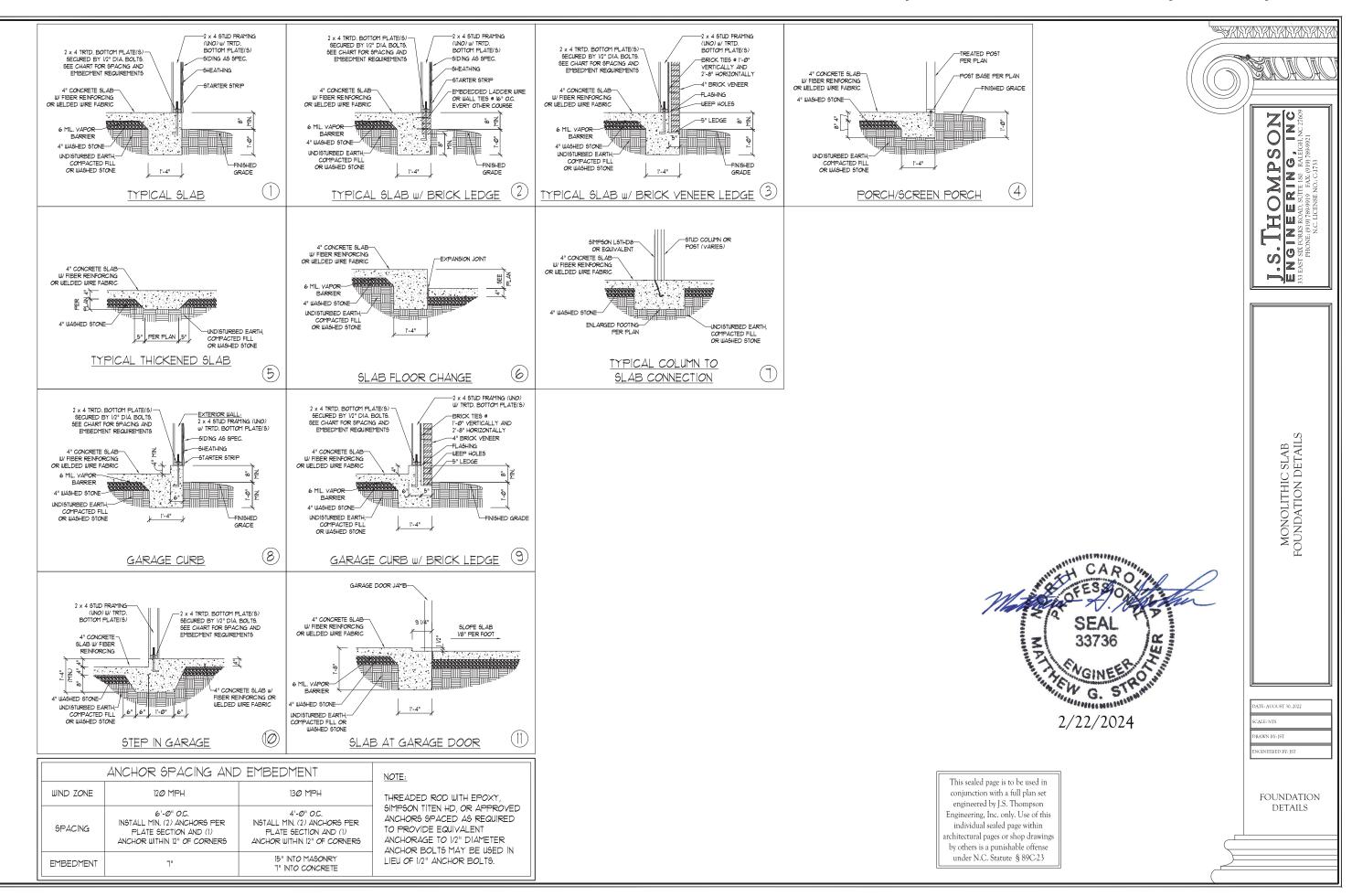
WIDTHS, AND ATTIC VENT CALCS.

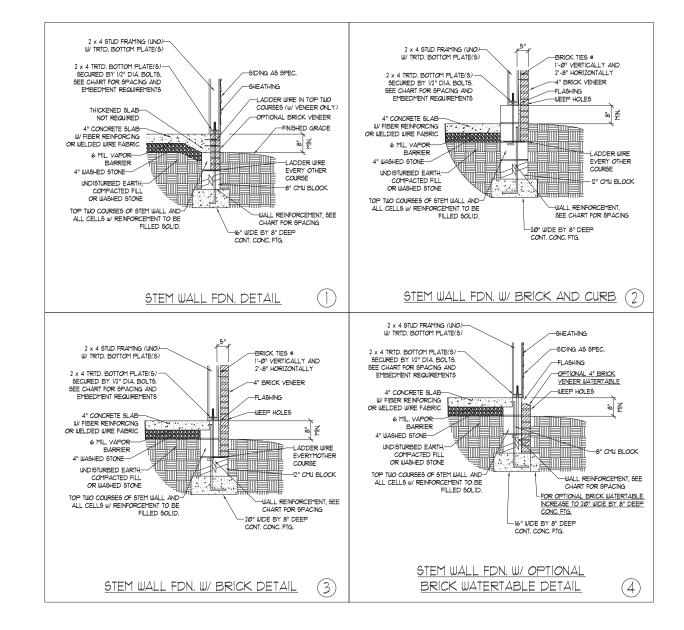
LEGEND XT EXTRA TRUSS J.S. THOMPS ENGINEERING, 333 EAST SIX PORKS ROAD, SUITE 180 RALER PHONE (1919) 7802010 T.Y.

PORTER II SIDE LOAD- N.C. GREAT SOUTHERN HOMES

ATE: FEBRUARY 21, 2024 GINEERED BY: WFB

S-4b ROOF FRAMING PLAN





130 MPH

4'-0" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

15" INTO MASONRY

1" INTO CONCRETE

NOTE:

THREADED ROD WITH EPOXY,

TO PROVIDE EQUIVALENT

LIEU OF 1/2" ANCHOR BOLTS.

SIMPSON TITEN HD, OR APPROVED

ANCHORS SPACED AS REQUIRED

ANCHOR BOLTS MAY BE USED IN

ANCHORAGE TO 1/2" DIAMETER

ANCHOR SPACING AND EMBEDMENT

120 MPH

6'-0" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

WIND ZONE

SPACING

EMBEDMENT

	MASONRY STEMWALL SPECIFICATIONS				
WALL HEIGHT -	MASONRY WALL TYPE				
	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	12" CMU	
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/ *4 REBAR @ 64" O.C.	
5	GROUT SOLID w/ *4 REBAR @ 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ *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 w/ #4 REBAR @ 24" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.	
1 AND GREATER ENGINEERED DESIGN BASED ON SITE CONDITIONS				<u>ONS</u>	

STRUCTURAL NOTES:

- 1) WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN *51 / *61 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP SLAB PER $\underline{\text{R5062.1}}$ AND $\underline{\text{R50622}}$ BASE AND $\underline{\text{EXCEPTION}}$ OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
- MINIMUM 24" LAP SPLICE LENGTH.
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

2/22/2024

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NEERED BY: JST

FOUNDATION DETAILS

STEM WALL FOUNDATION DETAILS

OMPS ERING

S. THOINE

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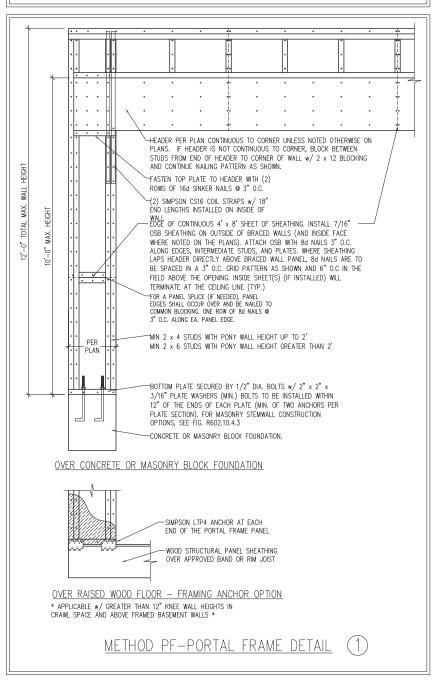
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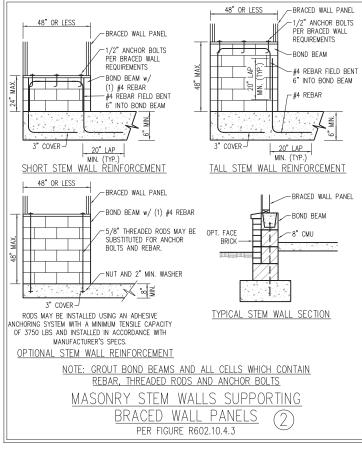
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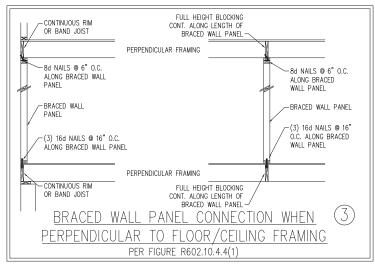
GENERAL WALL BRACING NOTES:

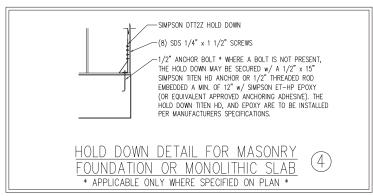
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND
- FIGURES REFERENCED ARE FROM THE 2018 NORC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORC FOR ADDITIONAL INFORMATION AS NEEDED.
- BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR. HAVE BEEN DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE
- SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1
- THE RABLE RIJUS.3.3. METHOU SET OF THE REPORT OF THE RABLE ROUZE. THE REFERS TO THE "CONTINUOUS SHEATHING". WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB
 SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113"
- DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.).

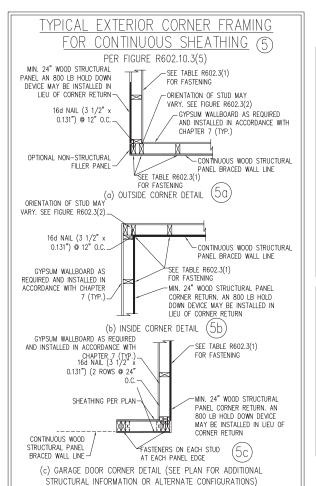
 GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH
 SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R702.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602, 10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.

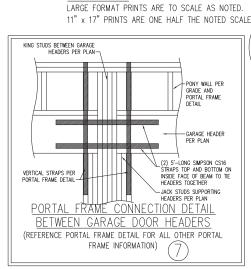


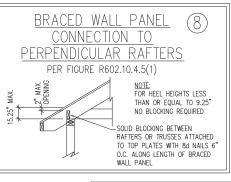


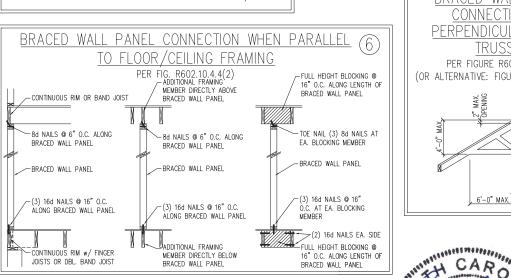












SEAL 57 G.

2/22/2024

BRACING NOTES AND DETAILS BRACED WALL PANEL CONNECTION TO PFRPFNDICULAR ROOF TRUSSES PER FIGURE R602.10.4.5(3) (OR ALTERNATIVE: FIGURE R602.10.4.5(2)) 2 x BLOCKING TABLE 6'-0" MAX.

> AWN BY: JST BRACED WALL NOTES AND

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DETAILS AND PF DETAILS

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SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMMS, CANTILEVERS, 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 I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NORC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL 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 WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200	10	L/360
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R301.:	2(4) WIND ZONE AND EXPOSURE)	
GROUND SNOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 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 NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 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 REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NE EXCEED 24* 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 MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NORC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE 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 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 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 SOULD OR SOULD FILED PIERS. PERS MAY BE FILLED SOULD WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UND).

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FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL
 TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTUREPS'S SECUENCIATIONS
- 3. STRUCTURAL 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 A503, GRADE B, TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" 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 FOLLOWS (UNO):

A. WOOD FRAMING (2) 1/2" DIA. x 4" LONG LAG SCREWS
B. CONCRETE (2) 1/2" DIA. x 4" REDGE ANCHORS
C. MASONRY (FULLY GROUTED) (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS
D. STEEL PIPE COLUMN (4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/(2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 9/16" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/(2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- 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 NEWBER RELOW.
- 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 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 BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION.
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 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 FOILAL JENGTHS (IND)
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- 11. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I—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 (U.N.O). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE 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) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE NORC. 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (IND)
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LISIZ UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG 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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STANDARD STRUCTURAL NOTES

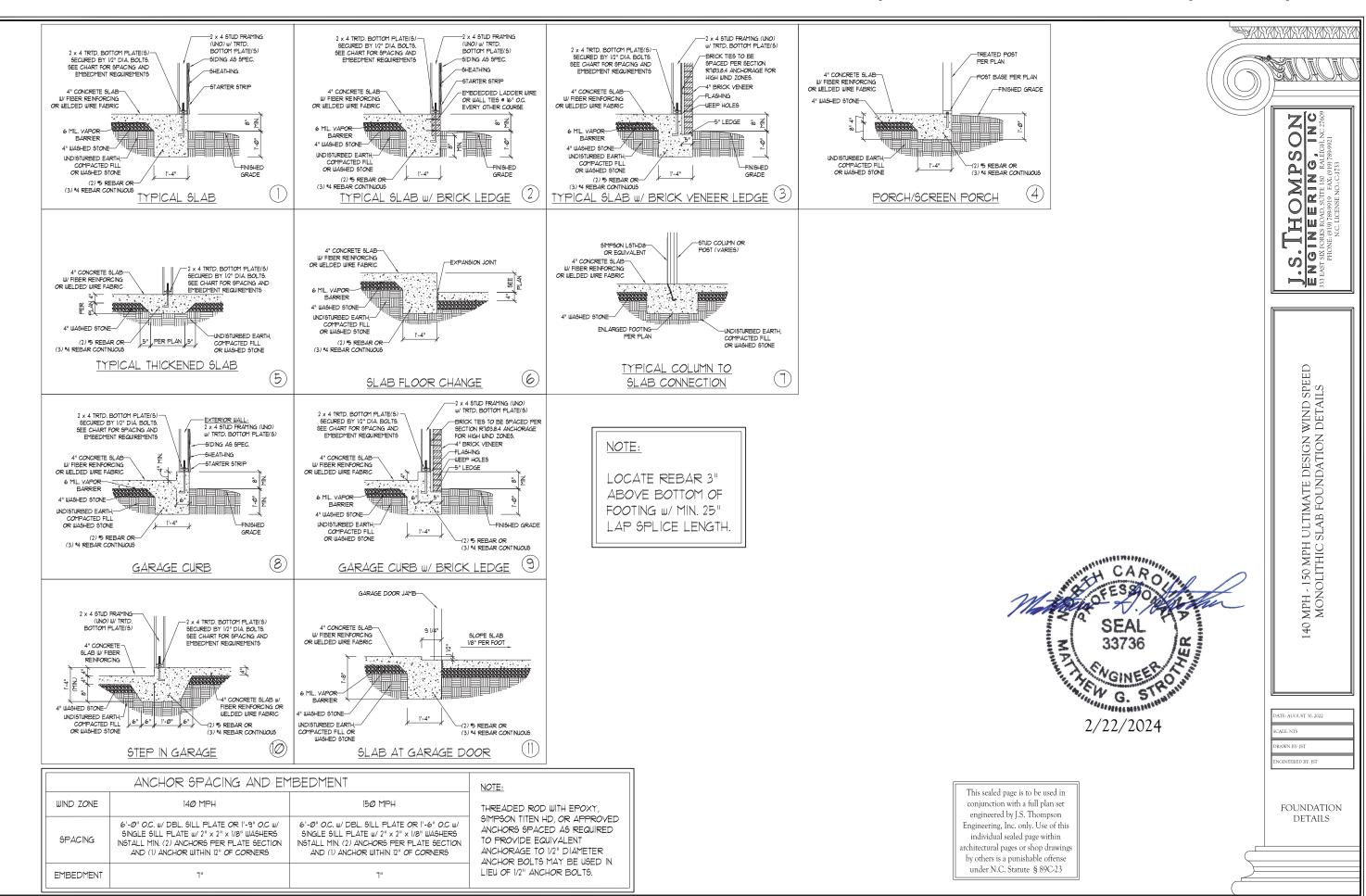
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STRUCTURAL NOTES



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> MPH ULTIMATE DESIGN WIND SPEED WALL FOUNDATION DETAILS MPH - 150 N STEM ' 40

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FOUNDATION DETAILS

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MASONRY STEMWALL SPECIFICATIONS 2 x 4 STUD FRAMING (UNO)-W/ TRTD. BOTTOM PLATES BRICK TIES TO BE SPACED PER MASONRY WALL TYPE SECTION R103.8.4 ANCHORAGE FOR HIGH WIND ZONES. WALL HEIGHT DBL 2 x 4 TRTD. BOTTOM PLATES 4" BRICK AND 4" BRICK AND (FEET) -4" BRICK VENEER 8" CMU 12" CMU SECURED BY 1/2" DIA, BOLTS. 4" CMU 8" CMU —FLASHING —WEEP HOLES SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS 2 AND UNGROUTED GROUT SOLID UNGROUTED UNGROUTED BELOW 4" CONCRETE SLAB-OR WELDED WIRE FABRIC UNGROUTED GROUT SOLID UNGROUTED UNGROUTED 6 MIL. VAPOR BARRIER ADDER WIRE GROUT SOLID W/ #4 EVERY OTHER COURSE GROUT SOLID W/ #4 4" WASHED STONE 4 GROUT SOLID GROUT SOLID REBAR @ 48" O.C. REBAR @ 64" O.C. UNDISTURBED EARTH, 12" CMU SOLID COMPACTED FILL FILLED STEM GROUT SOLID w/ *4 GROUT SOLID w/ #4 GROUT SOLID w/ *4 OR WASHED STONE NOT APPLICABLE WALL FND 5 REBAR @ 36" O.C. REBAR @ 36" O.C. REBAR @ 64" O.C. -1/2" THREADED ROD CONTINUOUS TO FOOTING. SEE CHART FOR SPACING AND EMBEDMENT REQ. GROUT SOLID w/ *4 GROUT SOLID w/ #4 GROUT SOLID w/ *4 24" WIDE BY 8" DEEP CONT. NOT APPLICABLE 6 REBAR @ 24" O.C. REBAR @ 24" O.C. REBAR @ 64" O.C. CONC. FTG. w/ (3) *4 REBAR CONT. OR (2) *5 REBAR CONT. J AND ENGINEERED DESIGN BASED ON SITE CONDITIONS GREATER

STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN 151 / 161 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP \$LAB PER <u>R506.21</u> AND <u>R506.22</u> BASE AND <u>EXCEPTION</u> OF 2018 NORTH CAROLINA RESIDENTIAL CODE.

 1) MINIMUM 24" LAP SPLICE LENGTH.
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

NOTE:

LOCATE REBAR 3" ABOVE BOTTOM OF FOOTING W/MIN. 25" LAP SPLICE LENGTH.

	CON	PECNIC FABRIC OOR OOR OOR OOR OOR OOR OOR OOR OOR OO	S A ADDER WIRE EVERY OTHER EVERY OTHER EVERY OTHER EVERY OTHER EVERY EVE	OR WASHED STONE 24" WIDE BY 8" DEEP CONT.— CONC. FTG. W (3) 14 REBAR CONT. OR (2) 15 REBAR CONT.	8° CMU SOLID FILLED STEM WALL PND. 1/2° THREADED ROD CONTINUOUS TO FOOTING. SEE CHART FOR SPACING AND EMBEDMENT REQ.
	<u>5</u> †	EM WALL FDN. W/ BRICK DET.	AIL 3	STEM WALL FDN. I BRICK WATERTA	
_					
		ANCHOR SPACING AN	ID EMBE	DMENT	NOTE:
	IJIND 70NE	140 MPH		IBØ MPH	

ANCHOR SPACING AND EMBEDMENT				
WIND ZONE	140 MPH	150 MPH		
SPACING	1'-9" O.C. w/ DBL. SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	I'-6" OC. w/ DBL. SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS		
EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 7" MINIMUM CONCRETE EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 1" MINIMUM CONCRETE EMBEDMENT		

SIDING AS SPEC.

LADDER WIRE IN TOP TWO

COURSES (W/ VENEER ONLY)

-FINISHED GRADE

LADDER WIRE

EVERY OTHER

-8" CMU SOLID

FILLED STEM

WALL FND.

-1/2" THREADED ROD CONTINUOUS TO FOOTING. SEE CHART FOR SPACING

AND EMBEDMENT REQ.

BRICK TIES TO BE SPACED PER SECTION R103.8.4 ANCHORAGE FOR HIGH WIND ZONES.

-4" BRICK VENEER

-FLASHING

-WEEP HOLES

COURSE

-OPTIONAL BRICK VENEER

SHEATHING

2 x 4 STUD FRAMING (UNO)

W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES-SECURED BY 1/2" DIA, BOLTS, SEE CHART FOR SPACING AND

THICKENED SLAE

4" CONCRETE SI AR-

6 MIL. VAPOR-BARRIER

UNDISTURBED EARTH, COMPACTED FILL

OR WASHED STONE

2 x 4 STUD FRAMING (UNO)-W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES

SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND

EMBEDMENT REQUIREMENTS

24" WIDE BY 8" DEEP CONT.— CONC. FTG. w/ (3) *4 REBAR CONT. OR (2) *5 REBAR CONT.

STEM WALL FON. DETAIL

W/ FIBER REINFORCING OR WELDED WIRE FABRIC

4" WASHED STONE-

NOT REQUIRED

EMBEDMENT REQUIREMENTS

THREADED ROD WITH EPOXY OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.

STEM WALL FON. W/ BRICK AND CURB (2)

SHEATHING

FLASHING

-SIDING AS SPEC.

-WEEP HOLES

OPTIONAL 4" BRICK

VENEER WATERTABLE

2 x 4 STUD FRAMING (UNO)-

W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES -SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND

EMBEDMENT REQUIREMENTS

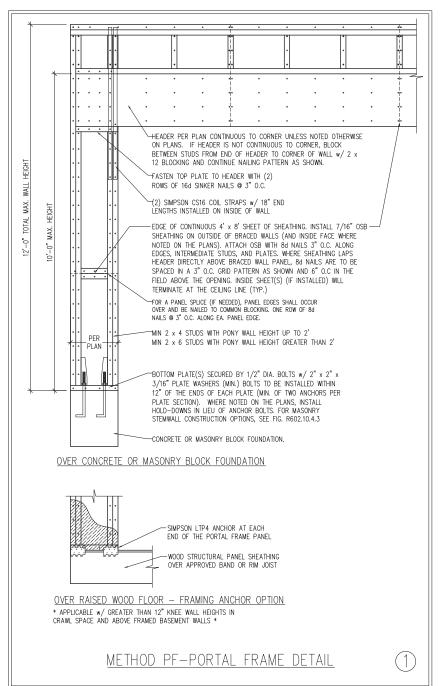
4" CONCRETE SLAB-

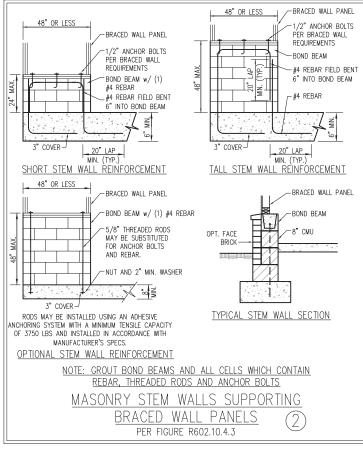
W/ FIBER REINFORCING

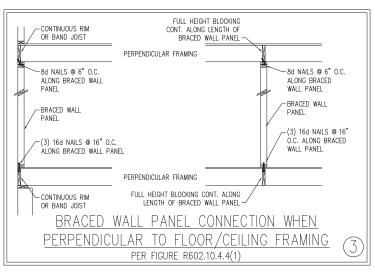
OR WELDED WIRE FABRIC

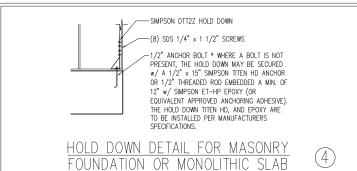
GENERAL WALL BRACING NOTES:

- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, AND ANY SPECIAL NOTES OR REQUIREMENTS. 4 ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH 7/16" OSB WITH BLOCKING AT ALL SHEATHING JOINTS AND 84 NAILS AT 3"
- O.C. ALONG EDGES AND 6" O.C. IN THE FIELD UNLESS NOTED OTHERWISE.
- 5. SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BAND JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C.. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND
- 6. ALL EXTERIOR WALLS TO BE SHEATHED ON INSIDE FACE WITH 1/2" GYPSUM BOARD PER TABLE R702.3.5 (UNO).

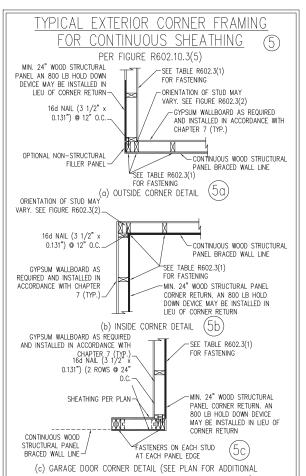


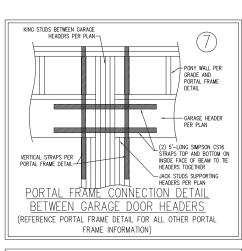


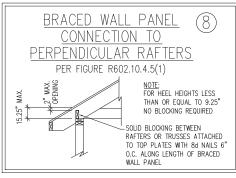




* APPLICABLE ONLY WHERE SPECIFIED ON PLAN *







BRACED WALL PANEL CONNECTION TO PFRPENDICULAR ROOF <u>TRUSSES</u> PER FIGURE R602.10.4.5(3) (OR ALTERNATIVE: FIGURE R602.10.4.5(2)) 2 x BLOCKING TABLE R602.3(1) 6'-0" MAX.

SEAL 33736 VGINEE G. STRO SACREMENT MENTAL 2/22/2024

40 ATE: AUGUST 30, 2022 RAWN BY: JST

MPH - 150 WALL I

MPH ULTIMATE DESIGN WIND BRACING NOTES AND DETAILS

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NEERED BY: IST

BRACED WALL NOTES AND DETAILS AND PF DETAILS

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS) BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING PER FIG. R602.10.4.4(2) - FULL HEIGHT BLOCKING @ 6" O.C. ALONG LENGTH OF - ADDITIONAL FRAMING MEMBER DIRECTLY CONTINUOUS RIM OR BAND JOIST ABOVE BRACED WALL PANEL BRACED WALL PANEL 8d NAILS @ 6" O.C. ALONG TOF NAIL (3) 8d NAILS AT -8d NAILS @ 6" O.C. ALONG BRACED WALL PANEL EA. BLOCKING MEMBER BRACED WALL PANEL -BRACED WALL PANEL BRACED WALL PANEL BRACED WALL PANEL -(3) 16d NAILS @ 16" -(3) 16d NAILS @ 16" O.C. -(3) 16d NAILS @ 16" O.C. O.C. AT EA. BLOCKING ALONG BRACED WALL PANEL ALONG BRACED WALL PANEL MEMBER (2) 16d NAILS EA. SIDE MEMBER DIRECTLY BELOW FULL HEIGHT BLOCKING @ -CONTINUOUS RIM w/ FINGER BRACED WALL PANEL 16" O.C. ALONG LENGTH OF JOISTS OR DBL. BAND JOIST BRACED WALL PANEL

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SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

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 CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND
- 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 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 WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200	10	L/360
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R301.:	2(4) WIND ZONE AND EXPOSURE)	
GROUND SNOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 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 NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS
- 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 REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM 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 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 MIXTURE SOILS CLASSIFIED AS GROUP 1. ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC. 2018 FDITION. CONCRETE REINFORCING STEFL TO BE ASTM A615 GRADE 60. WELDED WRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE 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 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 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 S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 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

- 1. ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv =175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E =1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS.

W AND WT SHAPES: CHANNELS AND ANGLES ASTM A36 PLATES AND BARS: ASTM A36 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 BEARING LENGTH OF 3 1/2" 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 FOLLOWS (UNO):

(2) 1/2" DIA. x 4" LONG LAG SCREWS 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 D. STEEL PIPE COLUMN (4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM W/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS ® 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES ®

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE
- 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 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 BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 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 FACH REAR FOLIAL LENGTHS (LINO)
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) 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
- 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. BRACFD WALL PANELS 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 R602.10.
- 11 PROVIDE DOUBLE JOIST LINDER ALL WALLS PARALLEL TO FLOOR JOISTS PROVIDE SUPPORT LINDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT
- 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 (U.N.O). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE 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) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE NCRC. 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG 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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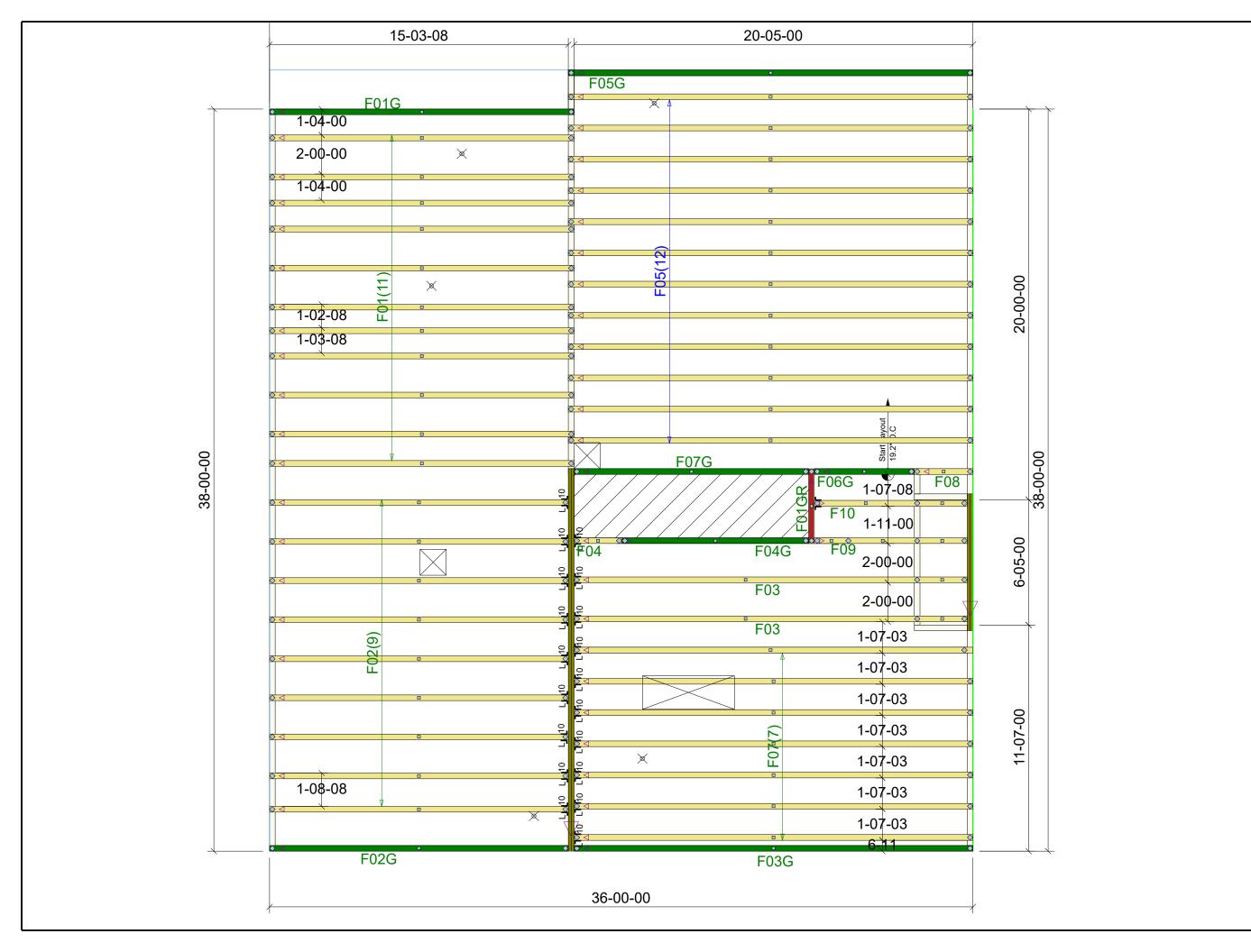
RAWN BY: JST

2/22/2024

NEERED BY: IST

STRUCTURAL NOTES

STRUCTURAL STANDARD





Builders First Source 23 Red Cedar Way Apex, NC 27523 Phone: (919) 363-4956 Fax: (919) 387-8565 https://www.bldr.com

General Notes:
- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.

- Dimensions are Feet-Inches- Sixteenths.

- Trusses are to be 24" o.c. unless noted otherwise

- (U.N.O.)

 Trusses are not designed to support brick U.N.O.

 Do not cut or modify trusses without first contacting Builders FirstSource.

 Immediately contact Builders FirstSource if

trusses are damaged.

- Connection Notes:

 All hangers are to be Simpson or equivalent U.N.O.

 Use Manufacturer's specifications for all hanger
- connections U.N.O.

 Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

Floor notes:
- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

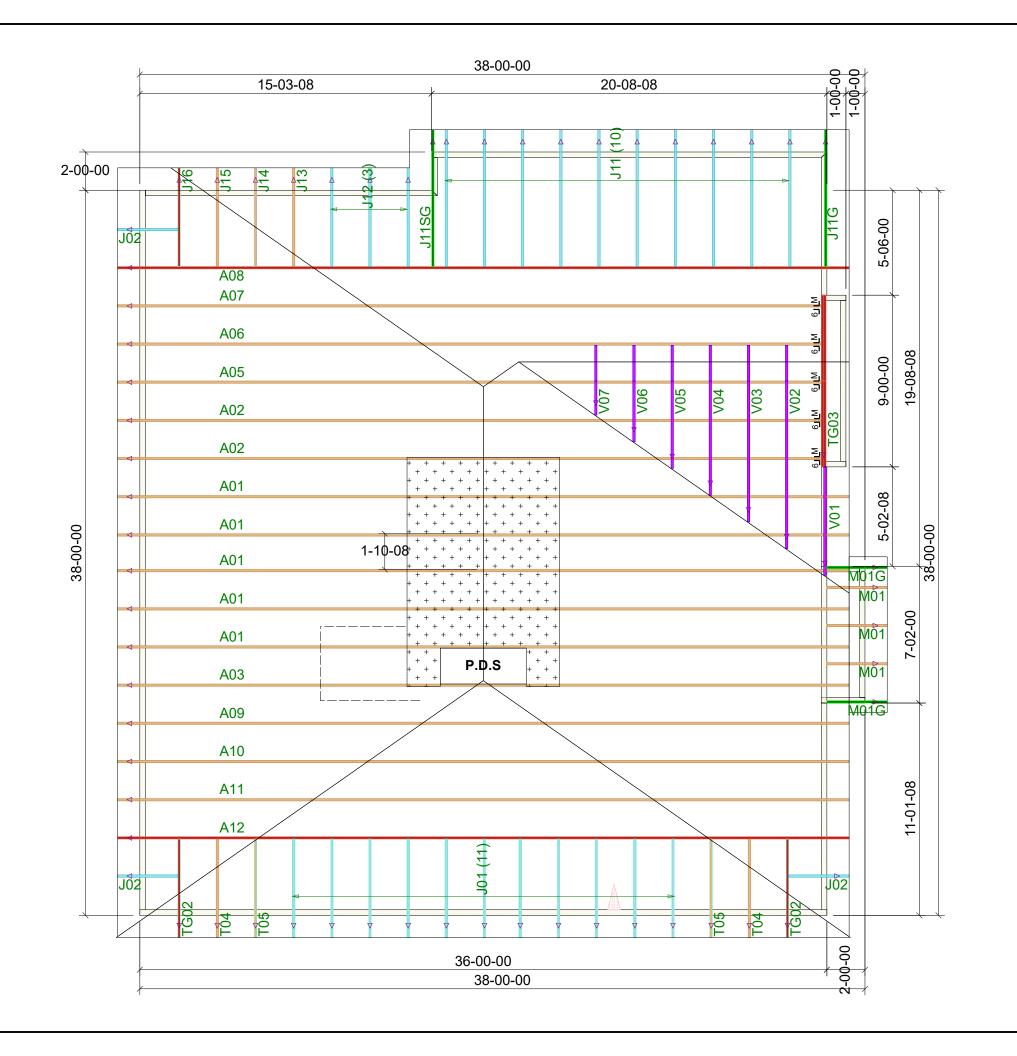
Dimension Notes:

- Drawing not to scale. Do not scale dimensions

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Builders First Source 23 Red Cedar Way Apex, NC 27523 Phone: (919) 363-4956 Fax: (919) 387-8565 https://www.bldr.com

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 Immediately contact Builders FirstSource if
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 Use Manufacturer's specifications for all hanger
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 Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

Floor notes:
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- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

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 \triangle \triangleleft ∇ \triangleright LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED BY TRIANGLE ICONS.



HANGER LIST ALL TIE DOWNS H2.5A UNLESS NOTED HTU26 Mu6 SPECIAL ITEMS LIST

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OLUME CEILIN STICK FRAMING