

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

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J.S. THOMPSON ENGINEERING, INC

BRACED WALL DESIGN NOTES:

- REGILEU MALL DESIGN FOURS.

 MALL BRACKS IS BY ENGINEERED DESIGN PER SECTION R3011.3

 "ENGINEERED DESIGN" OF THE WORK 2024 EDITION USING BRACKING MATERIALS AND METHODS USITED IN TABLE R602.10.4 ALONG WITH ALTERNALT MATERIALS AND METHODS THAT COMPY 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 2024 EDITION.
- REQUIRED BY THE NOSC 2012 EDITION.

 S. CS-NSP RETEST TO "CONTINUOUS," SHEATHED WOOD STRUCTURAL PANELS."

 COMPRICTOR IS TO INSTALL "A"E OSB ON ALL EXTEROR WALLS WITH

 HOROZOTIK, JOHN'S BLOCKE, ATTOM HEARTHING "A BRING MAY SEE OF

 O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD INCLIDING TOP AND

 BOTTOM PLATES.

 4. OB RETEST TO "CIPSIAN BOARD." CONTINUORO IS TO INSTALL 172" (ANN.)

 POSSUL PRIMER OR BRIND SESSES OF WITH LOWN'S WERE WITHOUT ON THE
- GB RETHES TO "GPISOUB BOARD." CONTRACTOR IS TO INSTALL TY?" (MIN.

 "PISSUM BOARD ON BOTH SIGES OF WAIL (LING) WHERE NOTED ON THE

 PLANS ATTACHED WITH 1 1/4" LONG JIS SOREWS OR 1 5/8" LONG 54

 COOLER NALS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD

 NULDIDING TOP AND BOTTOM PLATES. WHERE METHOD GREP PANELS SHE

 INSTALLED HORIZONTALLY, BLOCKING OF HORIZONTAL JOINTS IS NOT
- PROJECT OF THE PROPERTY OF T

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE
- ALL HOMENS LUMBER TO BE STY BE (MIN).

 ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (MIN).

 INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER AND THE SECRET PROPERTY OF THE PROPERTY OF THE

Table R602.7.5 Minimum number of full Height king Studs at each end of Headers in Exterior Walls in 120/130 MPH Wind Zones

HEADER SPAN (FEET)	PAN MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)			
UP TO 4"	1			
> 4' TO 8'	2			
> 8" TO 14"	3			
> 14' TO 18'	4			

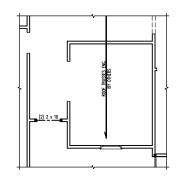
	LEGEND
CONT	CONTINUOUS
XJ	EXTRA JOIST
DJ	DOUBLE JOIST
TJ	TRIPLE JOIST
EA	EACH
()	NUMBER OF STUDS
DSP	DOUBLE STUD POCKET
TSP	TRIPLE STUD POCKET
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TRTD	PRESSURE TREATED
TYP	TYPICAL
INO	HMI CCC MOTED ATHERWISE

FRANKLIN SUPERIOR HOMES OF THE SANDHILLS

S-2a SECOND FLOOR FRAMING PLAN

EW G. STR THE PROPERTY OF

OPTIONAL VAULTED CEILING



OPTIONAL OFFICE

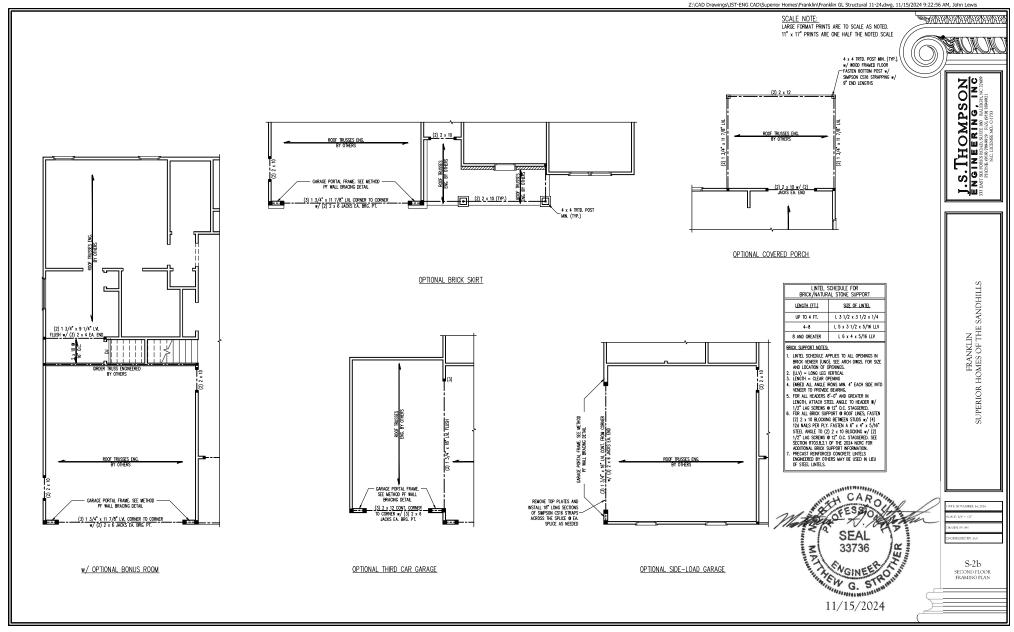
ROOF TRUSSES ENG. BY OTHERS OR: 2 x 6 @ 16" O.C. (2) 2 x 10 CAR GARAGE PORTAL FRAME. SEE METHOD PF WALL BRACING DETAIL (3) 1 3/4" x 11 7/8" LVL CORNER TO CORNEL

w/ (2) 2 x 6 JACKS EA. BRG. PT.

11/15/2024

SEAL 33736

4 x 4 TRTD. POST



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

G. STRO 11/15/2024



J.S. THOMPSON ENGINEERING, INC

FRANKLIN SUPERIOR HOMES OF THE SANDHILLS

S-3

- BEACTO WALL DESIGN NOTES:

 1. WALL BRACHO IS SIT PLEMEZPED DESIGN PER SECTION RIDGIT.3.

 TROMESPED DESIGN OF THE MICE 2024 EXTION LIDNE BRACHOS

 MICHAEL STATEMENT OF THE MICE 2024 EXTION LIDNE BRACHOS

 ALTERNATIVE MARTHELS AND METHODS THAT COMEY WITH ACCEPTED

 ENGREENING PRACTICE BRACED WALL DESIGN IS NOT PRESCRIPTIVE.

 SHEATH HALL STERROR WALLS YIP / 10° GIST IO PROVIDE CS "WAS" WALL

 BRACHOS THAT WALL PRACE THE STRUCTURE FOR ALL LATERAL LIDNES AS SECURITY.

 SHEATH HALL STRUCTURE AND LID LATERAL STRUCTURE FOR ALL LATERAL LIDNES AND

 SHEATH OF THE MICHAEL STRUCTURE FOR ALL LATERAL LIDNES WHILE

 BRACHOS THE MICHAEL STRUCTURE FOR ALL LATERAL LIDNES WAS

 CONTRACTOR IS TO INSTALL 7/16° GOS ON ALL DETEROR WALLS WITH

 HORIZONTAL AGONT SECURICE AND LET'S CASE THE FILE DISCUSION OF PAIR

 BOTTOM PARES TO TOWN THE MICHAEL SHEATH LID LATERAL LIVING (MICHAEL)

 COPUS MOND ON BOTTOM SHEAT OF A MICHAEL STRUCTURE AND THE FILE DISCUSSION OF THE MICHAEL STRUCTURE AND THE PAIR LIVING THE PAIR

 COCCUER MALS SPACED 7 OLD A CHANGE PAIRS LIDIES AND IN THE FIELD

 NAULING TO PAIR SOFTOM PAIRS WHERE MICHAEL OF PAIRS THAT AND THE PAIR LIVING T
- - . ALL FRAMING LUMBER TO BE #2 SPF (UNO). . ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
 - (UNO). WINDOW AND DOOR HEADERS TO BE SUPPORTED
 - WINDOW AND DOOR HEADERS TO BE SUPPORTED \(\frac{1}{2} \) (1) AMCS STUD ARE 100 ARE 100 (AND.) SET THEIR BROZZ-15 FOR ADDITIONAL INNE STUD REQUEREMENTS. SQUARSS DEMOTE POINT LOADS WHICH BROZZES SQUARSS TO BE (2) STUDIES (WING.) REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAR, INTERNATION.

Table R602.7.5

Minimum number of full Height king studs
at each end of Headers in exterior
Walls in 120/130 MPH Wind Zones

HEADER SPAN (FEET)	NINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)	
UP TO 4'	1	
> 4' TO 8'	2	
> 8° TO 14°	3	
> 14 TO 18	4	

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

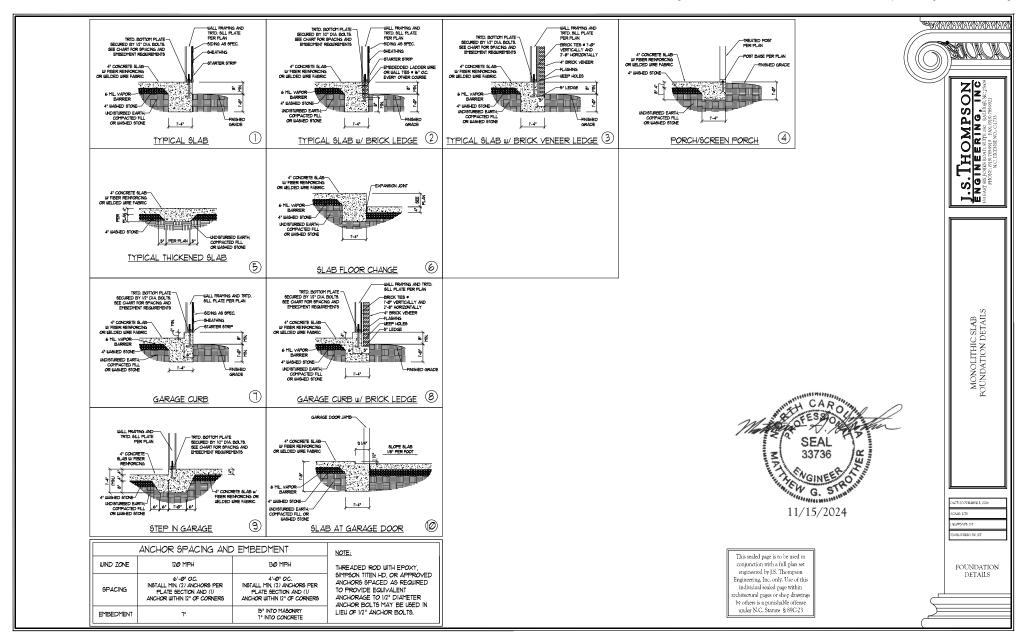


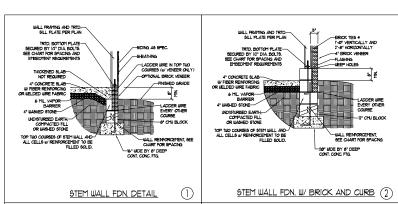
GIRDER TRUSS ENGINEERED LI

2 x 6 @ 24" O.C._ LADDER FRAMING

SLOPE_CLG UP







MASONRY STEMWALL SPECIFICATIONS				
WALL HEIGHT	MASONRY WALL TYPE			
(FEET)	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 W/ *4 REBAR * 64" O.C.	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 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS			

STRUCTURAL NOTES:

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

- 1) WILL HEIGHT PEASKER PROVITOR OF ROYN'S 10 TOP OF THE WILL.
 2) THE MILTER UTHERS TOSETHER WILL LADDER WERE AT 6" CO. VERTICALLY.
 3) CHART APPLICABLE FOR ROUSE FOUNDATION ONLY, CONSLIT INSINEER FOR DESKIN OF GARAGE FOUNDATION NOT COPHION TO BOWLE WERE THAN 3' OF FILL A MEASKER FOR OTHE TOP OF THE FOOTING.
 4) BACKFILL OF CLEAN 91" 1"6" INWARED \$100 ES ALLOWABLE.
 5) BACKFILL OF CLEAN 91" 1"6" INWARED \$400 ES ALLOWABLE.
 6) PARCHE OF CHELL FORMADE OR ASAD GRAVEL FANTINE SOLIS 4"6 PRIFT BELOW GRAVE) CLASSFIED AS GROUP!
 ACCORDINA TO INVIETO SOLIS CLASSFIED/INN \$195101 IN ACCORDIANCE WITH TABLE RASSI OF THE 2014 NORTH
 CARGOLIAN REPOSIDITAL COLD SERVE ALLOWABLE.
 6) PERF \$1.00 FIRE SEGSEJ, JAND \$500.023 BASE AND EXCEPTION OF 2014 NORTH CARGOLIAN RESIDENTIAL CODE.
 1) PRINSHIP AT JAY ARRIVE FOR THE STATE OF THE STATE OF

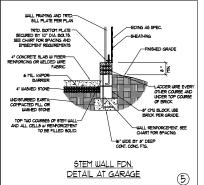
- 6) Prem Suad Per Rodra, and Rodra; and Exception of 2014 rokinh Carolina residential, code:

 1) Inchain 21: 40 Per Succession of Suad Inchain Wall.

 2) Lecar redar in Centra of Roddaton Wall.

 2) Were regained, Pll. Block 80.10 bith 17th 6"9 Mortar or 3000 PSI Grout, use of "Low Lift Grouting" method regained with filling will bith grout at hearts of by and greater

BUILL FRANKS AND INITION OF ILP ALTE FERR FALLS GEL PLATE FERR FALLS SECURED BY ICT FILE DOLLS. SECURED BY ICT	BALL FRAMES AND INTO SILE PLATE FREE PLAN FINED DOTOR FLATE FREE CARRY TORS FRANCE AND FREED FAIL FRANCE # FOR PROPERTY SLAD # FREED FRANCE # ALL CELLS W REMONCHORT TO BE ALL CELLS W REMO
STEM WALL FON. W/ BRICK DETAIL 3	STEM WALL FON. W/ OPTIONAL BRICK WATERTABLE DETAIL 4





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DATE: NOVEMBER 1, 2024 SCALE: NTS DEAWNEY IST

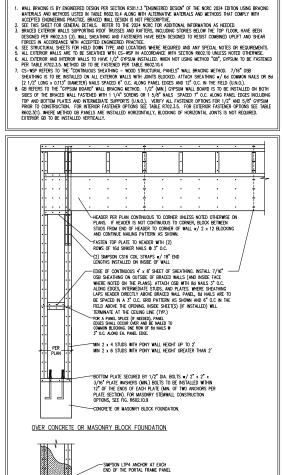
STEM WALL FOUNDATION DETAILS

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I.S. THOMPSON
ENGINEERING, INC
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MINISTRANSION THE MINISTRANS

FOUNDATION DETAILS

	ANCHOR SPACING AND	EMBEDMENT	NOTE:
WIND ZONE	120 MPH	130 MPH	THREADED ROD WITH EPOXY,
SP ACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN
EMBEDMENT	יו	15" INTO MASONRY 1" INTO CONCRETE	LIEU OF 1/2" ANCHOR BOLTS.



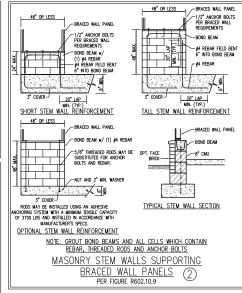
- WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST

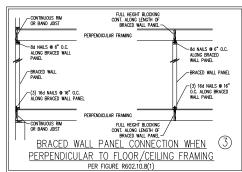
METHOD PF-PORTAL FRAME DETAIL

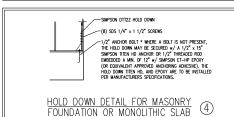
OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION

* APPLICABLE w/ GREATER THAN 12" KNEE WALL HEIGHTS IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS *

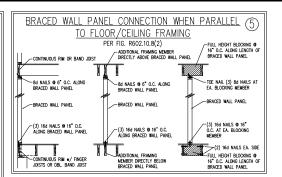
GENERAL WALL BRACING NOTES:

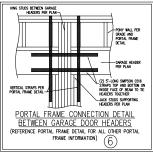


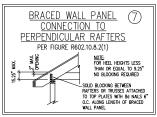


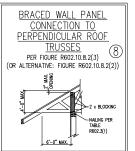


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DETAILS ALL BRACING NOTES AND

DATE: NOVEMBER 1, 2004 DEAWNEYJST

BRACED WALL NOTES AND DETAILS AND

PORTAL FRAME DETAILS

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

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OMPS H J.S.TH ENGINE

> NOTES STANDARD STRUCTURAL

STRUCTURAL

GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GROER 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), 2024 EDITION, PLUS ALL LOCAL CODES AND ALC DISTRICTIONS AND LOCKIONS TO THE CONTROLL SCOREDULES OF THE MONTH CONTROLL SCIENCE (CONTROLL), DAYS CHINN'S DESIGNATION AND LOCKIONS TO THE CONTROLL OF THE CONTROLL OF CONTROL OF CONTROLL OF CONTROL OF CONTROL
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NORC, 2024 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)		

- SEISMIC DESIGN CATEGORY:
- I—JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
 FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- CLADDING DESIGNED FOR:

	120 MPH WIND	ZONE	
		POS. (PSF) PRESSURE	NEG. (PSF) PRESSURE
	FLAT ROOF	+ 6.3	- 44.5
GABLE ROOF	2.25 TO 5/12	+ 9.6	- 49.8
CLADDING	5 TO 7/12	+ 11.6	- 41.9
Ī	7 TO 12/12	+ 14.2	- 35.3
HIP ROOF CLADDING	2.25 TO 5/12	+ 11.6	- 36.6
	5 TO 7/12	+ 11.6	- 28.7
COLONS	7 TO 12/12	+ 11.1	- 35.6
WALL CLADDING		+ 15.5	- 20.8

130 MPH WIND ZONE				
POS. (PSF) NEG. (PSF) PRESSURE PRESSURE				
	FLAT ROOF	+ 7.4	- 52.2	
GABLE ROOF	2.25 TO 5/12	+ 11.3	- 58.4	
CLADDING	5 TO 7/12	+ 13.6	- 49.2	
	7 TO 12/12	+ 16.7	- 41,4	
	2.25 TO 5/12	+ 13.6	- 43	
HIP ROOF CLADDING	5 TO 7/12	+ 13.6	- 33.7	
OLINO INO	7 TO 12/12	+ 13	- 41.7	
WALL CLADDING		+ 18.2	- 24.4	

	140 MPH W	IND ZONE	
		POS. (PSF) PRESSURE	NEG. (PSF) PRESSURE
	FLAT ROOF	+ 8.6	- 60.6
GABLE ROOF	2.25 TO 5/12	+ 13.1	- 67.8
CLADDING	5 TO 7/12	+ 15.8	- 57
l [7 TO 12/12	+ 19.4	- 48
	2.25 TO 5/12	+ 15.8	- 49.8
HIP ROOF	5 TO 7/12	+ 15.8	- 39.1
C. CONTRO	7 TO 12/12	+ 15.1	- 48.4
WALL CLADDING		+ 21.1	- 28.3

150 MPH WIND ZONE					
	POS. (PSF) NEG. (PSF) PRESSURE PRESSURE				
	FLAT ROOF	+ 9.9	- 69.6		
GABLE ROOF	2.25 TO 5/12	+ 15	- 77.8		
CLADDING	5 TO 7/12	+ 18.1	- 65.4		
	7 TO 12/12	+ 22.2	- 55.2		
	2.25 TO 5/12	+ 18.1	- 57.2		
HIP ROOF	5 TO 7/12	+ 18.1	- 44.9		
ODIDDINO	7 TO 12/12	+ 17.3	- 55.6		
WALL CLADDING		+ 24.3	- 32.5		

- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NORC, 2024 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NORC, 2024 EDITION
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2024 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 AMEA WITHIN THE PERMICTER OF THE BULLIMOS ENVELOPE SHALL HAVE ALL VECETATION, TOP SOIL AND FOREIGN MATERIAL, REMOVED, ED., THE METRIAL SHALL BE COMPARED TO ASSER UNFORM SUPPORT OF THE SLAB, AND DIXTEPT WHITER PARAMEDIST, THE FULL SHALL BE COMPARED TO ASSER UNFORM SUPPORT OF THE SLAB, AND DIXTEPT WHITER PARAMEDIST, OR SHALL HAVE SHALL BE COMPARED TO ASSER UNFORM SUPPORT OF THE MINISTRUMENT OR SHALL SHAPE SHALL SHAPE SH
- 3. PROPERLY DEWATER EXCAVATION PROR TO POURING CONCRETE MHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" 1" DEEP CONTROL JOINTS ARE TO BE SAMED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2024 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MAINIMA CONCRETE COVER AROUND RENFERONG STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLUES. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR RENFORCING STEEL NEASURED FROM THE INSIDE FACE OF THE BULL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR RENFORCING 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 PERS SHALL NOT EXCEED FOUR TIMES THER LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND THIS THER LEAST DIMENSION FOR SOLD OR SOLD FILED FIRES. PERS MAY BE FILLED SOLD WITH CONCRETE OR THE M OR S MORTACE, PERS AND WALLS SHALL BE CAPPED WITH 6" SOLD MASONRY."
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THRD OF ITS RESPECTIVE FOOTING. EACH GROER SHALL BEAR IN THE MIDDLE THRD OF THE
- 8 ALL CONCRETE AND MASONRY FOLINDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NORC 2024 FOLION OR IN ACCORDANCE WITH ACT STIE, ACT SIZE, NOVAL TRIBE A OR ACC SOLVANCE S/NIN-472, MASONANT TOURNATION WILLS ARE TO BE REINFORCED PER TABLE RIGHT.1(1), RR04.11(1), RR04.11(2), RR04.11(3), OR RR04.11(2), OF THE NICE, 2024 EDITION, CONCRETE FOUNDATION WILLS ARE TO BE REINFORCED PER TABLE RIGHT.2(6) OF THE NICE, 2024 EDITION.

 STEP CONCRETE FOUNDATION WILLS TO 2. 6 FRANCE WISE A 116 °C. OR HERE RIGHT.2(7) FRANCE RIGHT.2(7) FR

FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE p2 SPF minimum (fb = 875 PS, Fv = 375 PS, E = 1600000 PS) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE p2 SYP minimum (fb = 975 PS, Fv =175 PS, E = 1600000 PS) UNLESS NOTED OTHERWISE (UNO).
- 2 LAMINATED VENERS LIMBER (LV.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2800 PS, Fv = 285 PS, F = 1900000 PS, LAMINATED STRAND LIMBER (LS.) DANISHING TREED CORRECT (LONG STRUCK PROPERTIES TO - 255 PS, Fr - 250 PS, E - PROPERTIES: Fc = 2900 PSL F = 2000000 PSL INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS.
 - AL STEEL SHALL CONFORM TO THE W AND WT SHAPES: CHANNELS AND ANGLES: PLATES AND BARS: HOLLOW STRUCTURAL SECTIONS: STEEL PIPE: NG ASIM SPECHICATIONS
 ASIM A992
 ASIM A36
 ASIM A36
 ASIM A36
 ASIM A500 GRADE B
 ASIM 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 FLANCE 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 (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 SELE 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 @ 16" O.C.

- SQUARES DENOTE POINT LOADS MINCH REQUIRE SOLID BLOCKING TO GRIDER 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, 2024 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, 2024 EDITION.
- ALL BEAMS, HEADERS, OR GROER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEANS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEANS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER MOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UND). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UND).
- 8. FLITCH BEAMS SHALL BE BOLTED TOCETHER USING 1/2" DIAMPTER BOLTS (ASTN. 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 (UND
- ALL 1-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEMATIONS 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 2024 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RE02.10.
- 11. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER STRUCTURAL MAN INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- FOR ALL HEADERS SUPPORTING BROX VOICER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6'' \times 4'' \times 5/16' STEEL ANGLE WITH 6' MANNAM EMBERMENT AT SIDES FOR BROX SUPPORT (LOAD), FOR ALL HEADERS = 6'' OF STEEL ANGLE IN THE REST WITH 17' LOAD STREMS AT 12'' O.C. STREM 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, 2024 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 (UNO).
- 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 UPLIET CONNECTORS TOP AND BOTTOM (UNC.) POSTS MAY BE SECURED TO WOOD FRAMING WITH SWPSON CSI6 COL. STRAPPING WITH 9° EDU LENGTIS CR (2) 6° LONG SMPSON SDS SORENS (OR EQUAL) DRIVEN AT AN ANGLE FROM OPPOSITE SIDES. FOR MASONRY OR CONCRETE FOUNDATION USE SMPSON POST BASE.
- 16. CONSTRUCT ALL WOOD DECKS ACCORDING TO CHAPTER 47-WOOD DECKS.

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11/15/2024

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