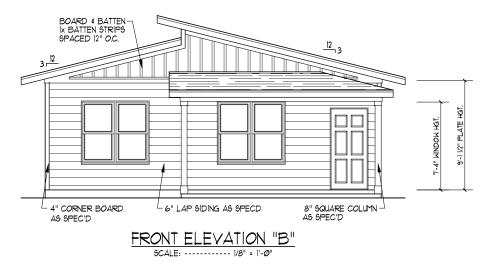
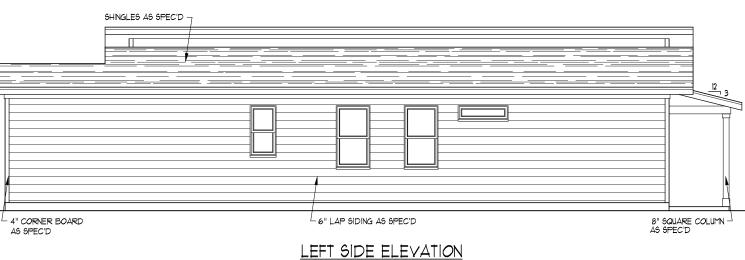


# THIS PLAN CON I.R.C. / NORTH

# TABLE 4/02.11 ENERGY CONSERVATION CODE INSULATION AND FENSITIATION REQUIREMENTS BY COMPONENT CLIMATE FENS, LIGHT SKY-GLAZED MINIMUM INSULATION R-VALUE 3 0.35 0.55 0.30 20 cont 13/25 5/13 0 5/13 4 0.35 0.55 0.30 30 cont 13/25 5/13 cont 19 5/13 0 5/13 5 0.35 0.55 NR 38 or 19, 13/5 10/13 10 10/13 5 0.35 0.55 NR 38 or 19, 13/5 10/13 10 10/13

SEE TABLE 30/11 CLIMATE ZONES BY COUNTY ENERGY CONSERVATION CODE SEE FOOTNOTES OF TABLE NI/02.1 FOR FOOTNOTES AND DETAILED EXPLANATIONS.

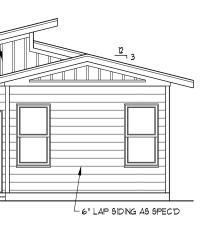






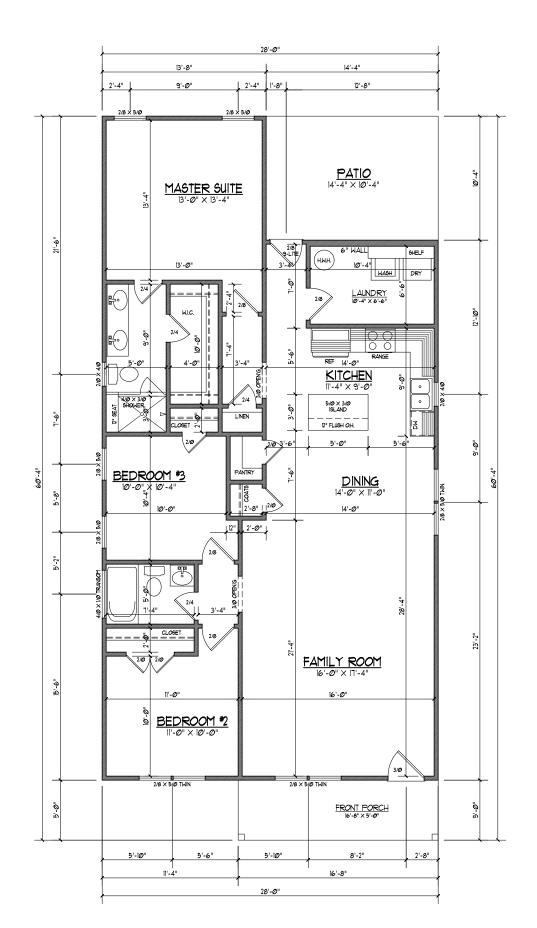
SCALE: ----- 1/8" = 1'-0"

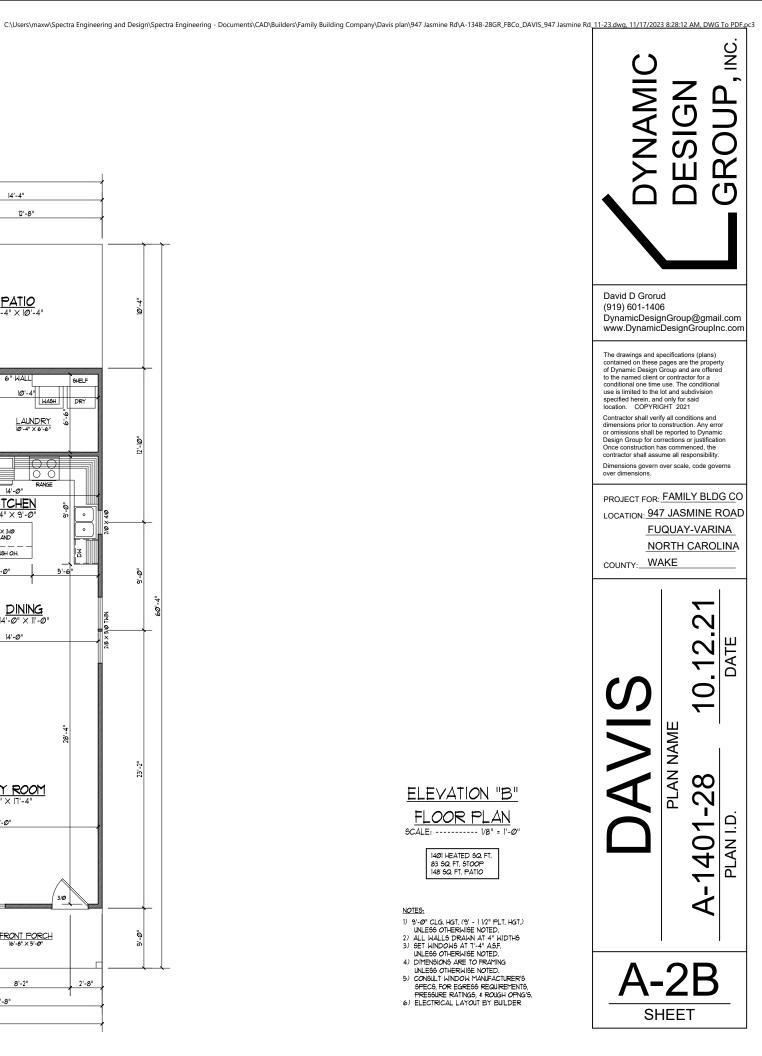
NFORMS TO THE 2018 EDITION OF THE H CAROLINA RESIDENTIAL CODE.	_
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INC.  $\mathbf{O}$ AM OUP Ζ C  $\overline{\mathcal{O}}$ Ż Ř  $\overline{\mathbb{O}}$ David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com www.DynamicDesignGroupInc.com The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021 Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility. Dimensions govern over scale, code governs over dimensions. PROJECT FOR: FAMILY BLDG CO LOCATION: 947 JASMINE ROAD FUQUAY-VARINA NORTH CAROLINA COUNTY: WAKE <u>\_\_\_</u> 10.12.2' DATE  $\underline{O}$ **A** PLAN NAME -28 PLAN I.D. 140,  $\blacktriangleleft$ R A SHEET





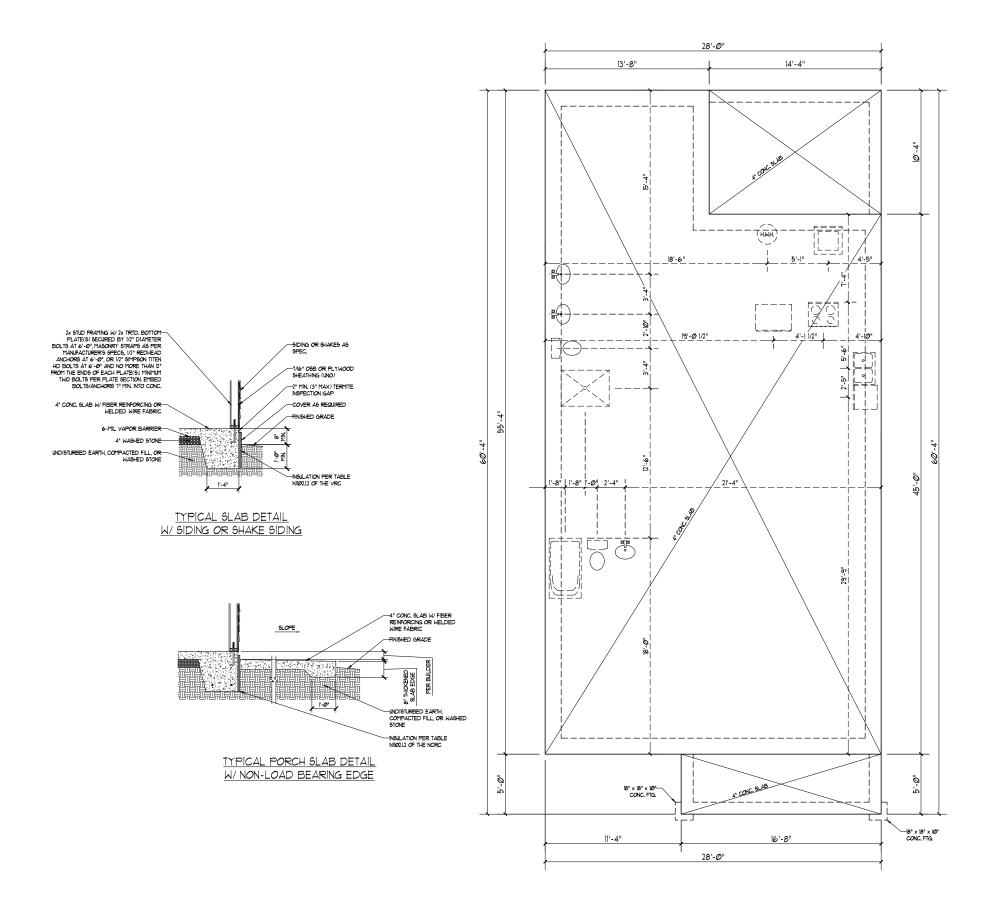
ELEVATION "B"

FLOOR PLAN SCALE: ----- 1/8" = 1'-0"

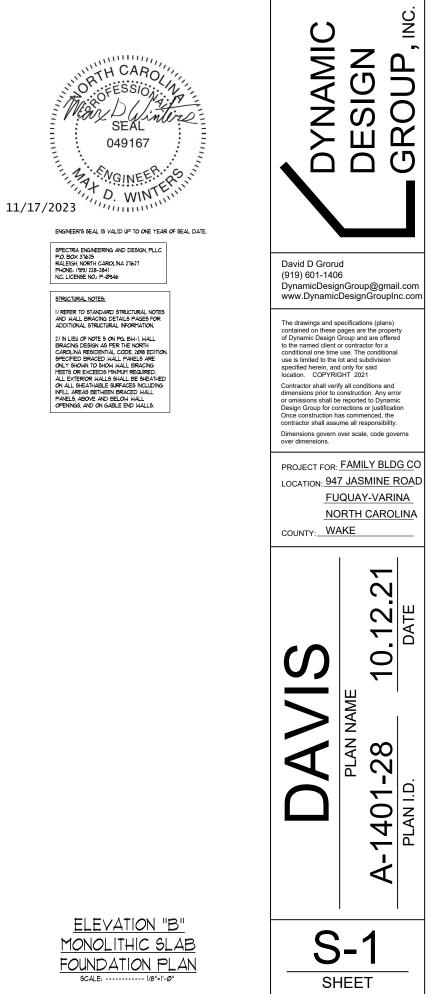
1401 HEATED SQ. FT. 83 SQ. FT. STOOP 148 SQ. FT. PATIO

NOTES:

- NOTES: 1) 9'-0" CLG. HGT. (9' 1 /2" PLT. HGT.) UNLESS OTHERWISE NOTED. 2) ALL WALLS DRAWN AT 4" MIDTHS 3) SGT WINDOWS AT '-4" ASF. UNLESS OTHERWISE NOTED. 4) DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED. 5) CONSULT UNDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS. PRESSURE RATINGS, 4 ROUGH OPNG'S. 6) ELECTRICAL LAYOUT BY BUILDER



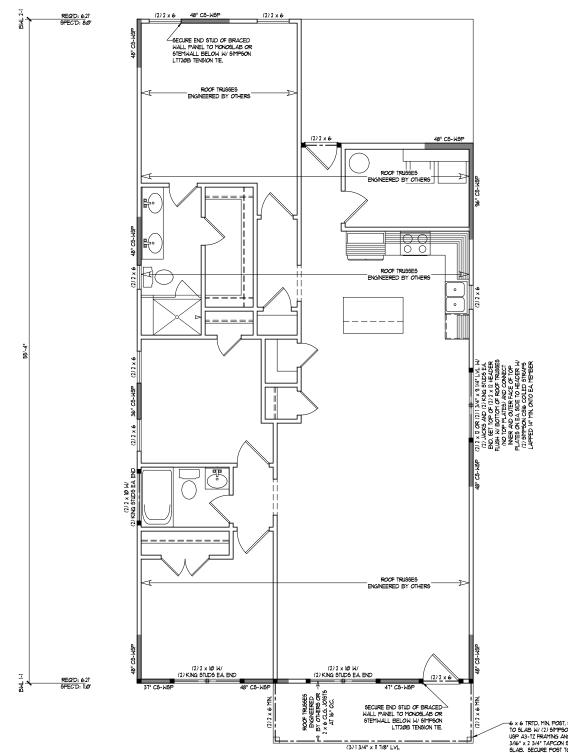




C:\Users\maxw\Spectra Engineering and Design\Spectra Engineering - Documents\CAD\Builders\Family Building Company\Davis plan\947 Jasmine Rd\A-1348-28GR\_FBCo\_DAVIS\_947 Jasmine Rd\_11-23.dwg, 11/17/2023 8:28:12 AM, DWG To PDF.pc3

REQ'D: 314' SPEC'D: 16.0'





28'-Ø"

BWL A-1

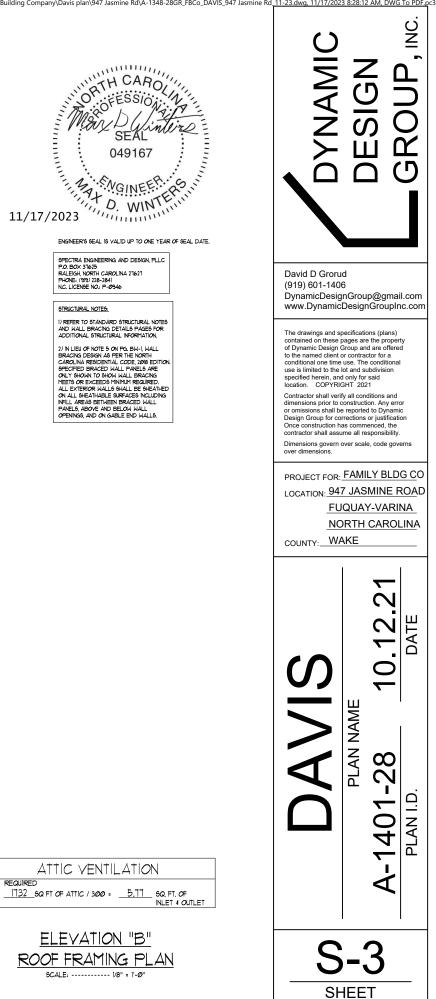
REQID: 3.14' SPEC'D: B.Ø'

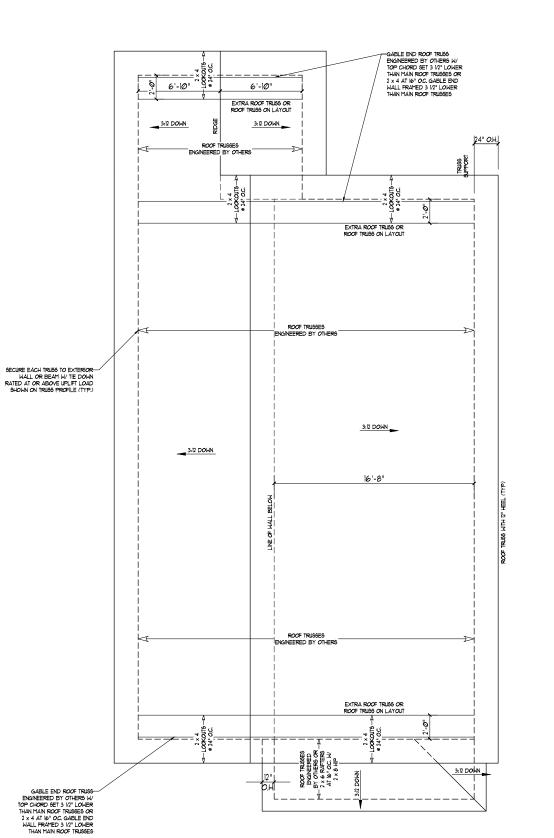
-6 x 6 TRTD, HIN POST, SECURE POST TO SLAS W (1) SHIPSON A32 OR (1) USP A3-T TRAING ANGLES ISING 3/16" x 3 3/4" TAPCOR SCREENS INTO SLAS, SECURE POST TO BEAM W (2) SHIPSON A32 OR (2) USP A3-TZ FRAMING AMELES USING "9 x 2 (1/2" GALV, SCREWS INTO BEAM. (TYP.)

11

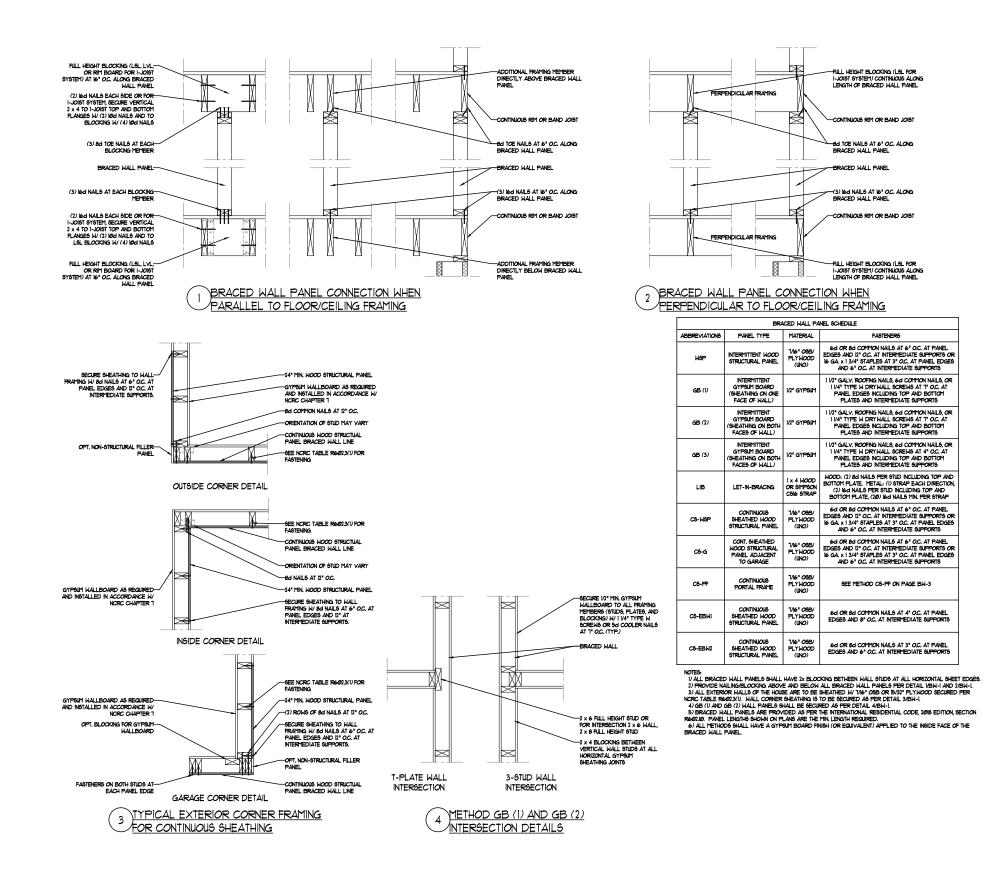
SEAL 049167	DESIGN GROUP, INC.
ENGINEERS SEAL IS VALID UP TO ONE YEAR OF SEAL DATE.	
9FECTRA ENGINEERING AND DEGKIN, PLLC P.O. BOX 316/5 RALEIGH, NORTH CAROL NA 21621 PHORE: (99) 728-7241 N.C. LICENSE NO: P-0946 STRUCTURAL NOTES:	David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com www.DynamicDesignGroupInc.com
1) REFER TO STANDARD STRUCTURAL NOTES AND MALL BRACING DETAILS PAGES FOR ADDITIONAL STRUCTURAL INCOMPATION 2) IN LIEU OF NOTE 5 ON PG. BM-1, MALL BRACING DESKIN AS PER THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION SPECIFIED BRACED MALL PANELS ARE ONLY SHONN TO SHOW MALL BRACING MEETS OR EXCEEDS SINUMAM REQUIRED. ALL EXTERIOR MALLS SHALL ES BHEATHED ON ALL SHEATHADLE SURFACES INCLUDING INFILL AREAS DETHEN BRACED MALL PANELS, ABOVE AND BELOH MALLS.	The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021 Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility. Dimensions govern over scale, code governs over dimensions.
	PROJECT FOR: <u>FAMILY BLDG C</u> O LOCATION: <u>947</u> JASMINE ROAD <u>FUQUAY-VARINA</u> <u>NORTH CAROLINA</u> COUNTY: <u>WAKE</u>
	<b>10.12.21</b> DATE
	DAVI PLAN NAME A-1401-28 PLAN I.D.
FIRST FLOOR CEILING / STRUCTURAL PLAN BCALE:	S-2
<u>NOTES:</u> 1) SHADED WALLS DENOTE LOAD BEARING WALLS. 2) ■ DENOTES SOLID STUDS.	

2) DENOTES SOLID STUDS.

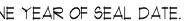


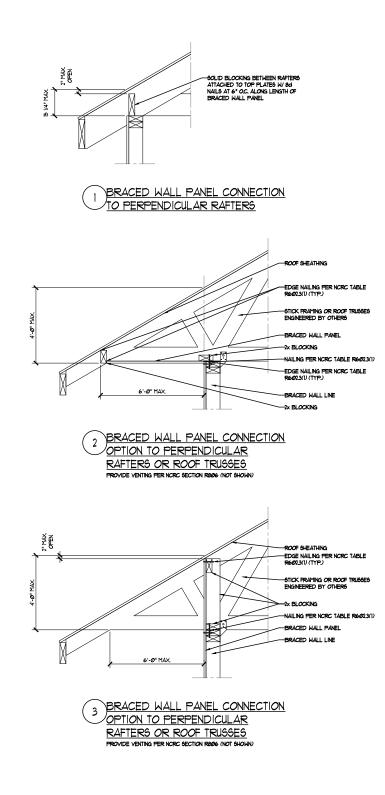


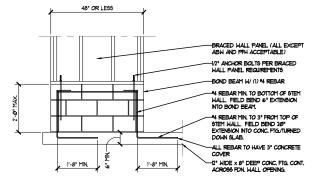




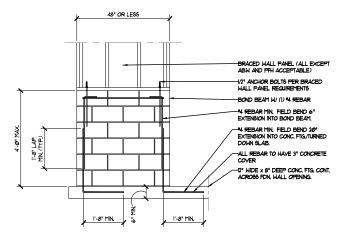




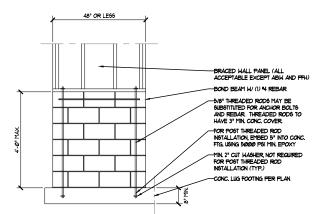








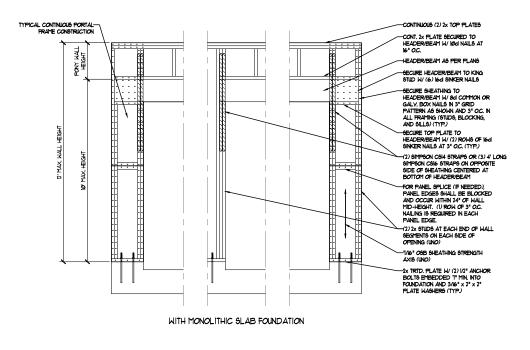
TALL STEM WALL REINFORCEMENT

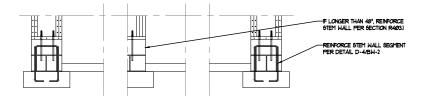




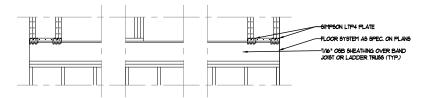
4 MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS



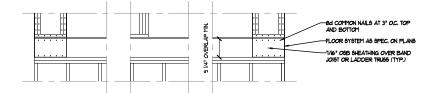




ON STEM WALL OR CRAWL SPACE FOUNDATION



OVER RAISED WOOD FLOOR OR SECOND FLOOR - FRAMING ANCHOR OPTION



OVER RAISED WOOD FLOOR OR SECOND FLOOR - WOOD STRUCTURAL PANEL OPTION

METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION



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DISCLAIMER - ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CARCILINA RESIDENTIAL CODE (NCR), 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 HECAUIDAS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE EXAMERE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, MALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING, ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.

STRUCTURAL DESIGN - STRUCTURAL DESIGN AS PER NORC, INCLUDING CHAPTER 45 FOR CONSTRUCTION IN 130, 140, AND 150 MPH WIND ZONES. DESIGN LOADS ARE AS FOLLOWS:

		LIVE LOAD	DEFLECTION	
		(199F)	(LL)	
4	ATTIC WITH LIMITED STORAGE	2Ø	L/240	
4	ATTIC WITHOUT STORAGE	ø	L/36Ø	
E	DECKS	40	L/36Ø	
E	EXTERIOR BALCONIES	60	L/36Ø	
F	IRE ESCAPES	40	L/36Ø	
G	WARDRAILS AND HANDRAILS	200	L/36Ø	
F	PASSENGER VEHICLE GARAGES	50	L/36Ø	
F	ROOMS OTHER THAN SLEEPING ROOMS	5 40/	L/36Ø	
e	LEEPING ROOMS	3Ø	L/36Ø	
e	STAIRS	40	L/36Ø	
e	INOW	2Ø	L/36Ø	
۲	NND LOAD (BASED ON "WALL	AND ROOF (	CLADDING DESIGN LC	۶A

ADS" TABLE, WIND ZONE, MEAN ROOF HEIGHT AND EXPOSURE)

- STICK FRAMED SYSTEMS ARE DESIGNED WITH 10 PSF DEAD LOAD.

I-JOIST SYSTEMS ARE DESIGNED WITH 12 PSF DEAD LOAD.
 FLOOR TRUSS SYSTEMS ARE DESIGNED WITH 15 PSF DEAD LOAD.

HIGH WIND ZONES - CONSTRUCTION IN 13/9, 14/9, AND 15/9 MPH WIND ZONES SHALL BE IN ACCORDANCE WITH CHAPTER 45 OF THE NORC, CONSTRUCTION IN THE COASTAL AND FLOOD PLAINS SHALL BE IN ACCORDANCE WITH CHAPTER 46 OF THE NCRC.

CONCRETE FOOTING AND SLAB PREPARATION - FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA AITTHIN THE FERMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REPOYZED. FILL MATERIAL SHALL BE REVE 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 AND 8" FOR EARTH, A 4" THICK BASE CONFRE CONSISTING OF CLEAN GRADED SAND, GRAVEL, OR CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I ACCROBING TO THE UNTER BOIL CLASSFICATION SYSTEM IN ACCORDANCE WITH TABLE R42651 OF THE NCRC. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE.

<u>SOIL BEARING CAPACITY</u> - THE ALLOWABLE MINIMUM BEARING CAPACITY FOR SOIL IS ASSUMED TO BE 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.

CONCRETE - CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NCRC. CONCRETE REINFORCING STELL TO BE ASTM ABIG GRADE 60. WELDED WIRE FABRIC TO BE ASTM ABIG. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STELL OF 3" IN FOOTINGS AND 11/2" IN SLABS, FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STELL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STELL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN I 1/2" FOR "5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR 16 BARS OR LARGER.

CONCRETE CONTROL JOINTS - IF APPLICABLE, CONTROL JOINTS ARE TO BE SAMED TO A DEPTH OF 25% OF SLAB THICKNESS WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING. CONTROL JOINTS SHOULD BE SPACED NO MORE THAN 12'-0' APART AND SECTIONS SHOULD BE RECTANGULAR WITH SIDE RATIOS NO GREATER THAN 15 LONG TO 1 WIDE.

MASONRY - MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402, MORTAR SHALL CONFORM TO ASTM C210, REINFORCING STEEL TO BE ASTM A615 GRADE 60,

REBAR LAP SPLICES - REINFORCEMENT SHALL BE THE LONGEST LENGTHS PRACTICAL OR BE LAP SPLICED 30<sup>11</sup> MINIMUM FOR 14 REBAR, 38<sup>11</sup> MINIMUM FOR 15 REBAR, 45<sup>11</sup> MINIMUM FOR 16 REBAR, OR THE MINIMUM REQUIRED LAP SPLICE LENGTH OF THE SMALLER BAR AS PER FIGURE R6008.54(1) OF THE

CONCRETE AND MASONRY FOUNDATION WALLS - ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC OR IN ACCORDANCE WITH ACI 313, ACI 333, INCMA TR68-A OR ACE 530/ASCE 5/TH5 402, MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.11(1) THROUGH R404.11(4) OF THE NCRC. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.12(1) THROUGH R404.12(5) OF THE NCRC. PRECAST CONCRETE FOUNDATION WALLS ARE TO CONFORM TO SECTION R404.5 OF THE NCRC. STEP CONCRETE FOUNDATION WALLS TO 2 × 6 FRAMED WALLS AT 16" O.C. WHERE GRADE

PERTITIO UNCU. PERSON WHEN STRUCTURAL CLAY TILE HOLLOW CONCRETE MASONRY WITS ARE USED FOR ISOLATED PIERS TO SUPPORT BEATS AND GIRDERS, THE CELLULAR SPACES SHALL BE FILLED SOLIDLY WITH CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILLED HOLLOW PIERS MADE USED SOLIDLY WITH CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILLED HOLLOW PIERS MADE USED INFORMATION WHEN STRUCTURAL CLAY TILE HOLLOW CONCRETE MASONRY WITS ARE USED FOR SOLIDLY WITH CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILLED HOLLOW PIERS MADE USED SOLIDLY WITH CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILLED HOLLOW PIERS MADE USED INFORMATION WHEN STRUCTURAL CLAY TILE HOLLOW CONCRETE MASONRY WITS ARE USED FOR SOLIDLY WITH CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILLED HOLLOW PIERS MADE USED INFORMATION WHEN STRUCTURAL CLAY THE STRUCTURAL CLAY THE STRUCTURAL CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILE HOLLOW PIERS MADE USED INFORMATION WHEN STRUCTURAL CLAY THE STRUCTURAL CONCRETE OR THE STRUCTURAL CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILE HOLLOW PIERS MADE USED INFORMATION WHEN STRUCTURAL CLAY THE STRUCTURAL CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILE HOLLOW PIERS MADE USED INFORMATION WHEN STRUCTURAL CONCRETE OR TYPE M OR 5 MORTAR EXCEPT WHILE HOLLOW PIERS MADE USED INFORMATION WHEN STRUCTURE THAN FOUR THEST THEIR LEAST THEMPIERS WITH THREE ROWS OF IZ MAILS AT IS'N CONCRETE ON THE STRUCTURE AND THE OFFICE ARE TO BE SPACED A MINIMUM OF 8'-0'. FASTEN MEMBERS WITH THREE INFORMATION WHEN STRUCTURE THAN FOUR THRES THEIR LEAST THEMPIERS WITH THREE INFORMATION WHEN STRUCTURE THAN FOUR THRES THEIR LEAST THEMPIERS WITH THREE INFORMATION WHEN STRUCTURE THAN FOUR THRES THEIR LEAST THEMPIERS WITH THREE INFORMATION WHEN STRUCTURE THAN FOUR THRES THEIR LEAST THEMPIERS WITH THREE INFORMATION WHEN STRUCTURE THAN FOUR THRES THEIR LEAST THEMPIERS WITH THREE INFORMATION WHEN STRUCTURE THAN FOUR THRES THEIR LEAST THEMPIERS WITH THREE INFORMATION WHEN STRUCTURE THAN FOUR THRES THE AND THE STRUCTURE THAN FOUR THRES THE STRUCTURE THAN FOUR THRES WITH THREE INFORMATION THER WAUPPORTED HEIGHT IS NOT MORE THAN FOUR THES THEILE FALLOT HER TAIL AND BY OF PIERS SHALL BE CAPPED WITH 4" OF SOLID MASONRY OR CONCRETE FOR ONE STORY AND B' OF SOLID MASONRY OR CONCRETE FOR TWO STORY AND TWO AND ONE-HALF STORY OR SHALL HAVE CAVITIES OF THE TOP COURSE FILLED WITH CONCRETE OR GROUT OR OTHER APPROVED METHODS SHADED OR NOTED PIERS ARE TO BE FILLED SOLID WITH CONCRETE OR GROUT OR OTHER

PIERGIRDER LOCATION - THE CENTER OF EACH PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF EACH PIER

FOUNDATION ANCHORAGE - FOR 115, 120, AND 130 MPH WIND ZONES, THE WOOD SOLE PLATE AT EXTERIOR WALLS ON MONOLITHIC SLAB, AND ALL WOOD SILL PLATES OF BRACED HALL PANELS AT BUILDING INTERIORS ON MONOLITHIC SLAB, AND ALL WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH ANCHOR BOLTS SPACED A MAXIMUM OF 6'-0" O.C. (4'-0" O.C. FOR 130 MPH HALT CONDUCTION THAT AND A DEALED AN AUXILIAR AND A DEALED AT INFORMER. THERE SHALL BE A MINIMUM OF TWO BOLTS FER FLATE SECTION. BOLTS SHALL BE AT LEAST 1/2" IN DIAMETER AND SHALL EXTEND A TIMINIM TI NTO MASONRY OR CONCRETE (B" INTO MASONRY FOR 130 MFH WIND ZONE). BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE FLATE. INTERIOR BEARING WALL SOLE PLATES ON MONLITHIC SLAB FOUNDATIONS NOT PART OF A BRACED WALL PANEL BHALL BE POSITIVELY ANCHORED WITH APPROVED FASTENERS, FOR 140 MPH AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC.

 $\label{eq:constraint} \begin{array}{l} \hline \hline \textbf{RRAMING LUMBER $HALL BE $2$ MINIMUM (Fb = 150 P$), Fv = 175 P$), E = 14000000 P$)) INLESS NOTED OTHERWISE (INO). ALL TREATED LUMBER $HALL BE $2$ MINIMUM (Fb = 150 P$), Fv = 175 P$), E = 14000000 P$)) INLESS NOTED OTHERWISE (INO). \\ \hline \end{array}$ 

ENGINEERED LUMBER - LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES TO a 1660 PSI, FV = 265 PSI, E = 1920000 PSI, LAMINATED STRAND LIMBER (LSJ.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F0 = 2325 PSI, FV = 525 PSI, E = 1550000 PSI, PARALLEL STRAND LIMBER (PSL) UP TO T<sup>II</sup> DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES 6: 2500 PGI, E : 1000000 PGI, PARALLEL STRAND LIMITER (PGL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc : 2000 PGI, E : 2000000 PGI, INSTALL ALL CONNECTIONS PER MANJFACTURER'S SPECIFICATIONS.

<u>STEEL BEAMS</u> - ALL STRUCTURAL STEEL SHALL BE ASTM A36, STEEL BEAMS SHALL BE SUPPORTED AT EACH END MITH A NIMIMM BEARING LENGTH OF 3 1/2" AND RULL FLANGE MIDTH (UNO) REVOIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT. MITH TWO LAG SCREWS (1/2" DIAMETER X 4" LONG). LATERAL SUPPORT 16 CONSIDERED ADEQUATE FROVIDED THE JOISTS ARE TOE NAILED TO THE 2X NAILER ON TOP OF THE STEEL BEAM, AND THE 2X NAILER IS SECURED TO THE BEAM FLANGE OR THE TOP OF THE STEEL BEAM IS INSTALLED WITHIN 1 1/2" OF THE TOP OF THE JOISTS.

POINT LOADS - SALARES DENOTE POINT LOADS WHICH REALIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SALARES DENOTE POINT LOADS FROM ABOVE WHICH REALIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.

LOAD BEARING HEADERS - ALL LOAD BEARING HEADERS ARE TO CONFORM TO TABLES R602.1(1), R602.1(2) AND R602.1(3) OR BE (2)  $2 \times 10$  with (1) JACK AND (1) KING STUD EACH END (INO), WHICHEVER IS GREATER. ALL HEADERS ARE TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS ARE TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO).

CHERO CHOW/ CLAY BEAM BEARING - ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO BEARING WALL ARE TO BEAR RULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL CLEVE BEARS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY SIDES NOTED ALL COLLEVE BEARS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY SIDES AND SUPPORTED BY MORE THAN (3) STUDE OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON COMPE SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO), BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE DARE TO EACH BEAR EQUAL LENGTHS (UNO)

STEEL FLITCH PLATE BEAM - STEEL FLITCH PLATE BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/07) WITH MASHERS FLACED 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 6" FROM EACH END (UNO).

I-JOIST/TRUSS LAYOUTS - 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.

 
 WALL BRACING - BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R602/0
 GRANN

 OF THE INTERNATIONAL RESIDENTIAL CODE, 2015 EDITION. THE LENGTH OF BRACING IN EACH BRACED
 GRENN

 WALL LINE SHALL COMPLY WITH TABLE R602/03(1) OR R602/03(3) OF THE INTERNATIONAL
 GUILFO
 RESIDENTIAL CODE, 2015 EDITION, WHICHEVER IS GREATER. REFER TO WALL BRACING DETAILS WHEN HALIFA PROVIDED

UPLIFT CONNECTIONS - SECURE ALL RAFTERS TO EXTERIOR WALL OR SUPPORTING BEAM WITH SIMPSON H25A HURRICANE THE EQUIVALENT CONNECTOR OR ALTERNATE CONNECTION COMPORTING TO THE NORC, SECURE EACH ROOF TRUSS TO EXTERIOR WALL OR SUPPORTING BEAM WITH UPDIFT CONNECTOR RATED AT OR ABOVE UPLIFT LOAD SHOWN ON TRUSS PROFILE. INSTALL ALL APTERROOF RUSS-TO-WALL CONNECTORS DIRECTLY TO WALL RRATING THROUGH ANTERIOR SHEATHING, WHERE CONNECTORS ARE INSTALLED TO INSIDE FACE OF TOP PLATES, INSTALL UPLIFT CONNECTOR SECURING RAFTERROOF TRUSS DIRECTLY TO WALL STUD BELOW OR INSTALL ADDITIONAL EQUIVALENT CONNECTOR SECURING THE TOP PLATE TO THE WALL STUD.

SECURE ALL BEAMS SUPPORTING ROOF TRUSSES OR RAFTERS TO THEIR RESPECTIVE BEARING SUPPORT MEMBERS WITH (1) SIMPSON CSIG STRAP PER CONNECTION LAPPING 14" MIN. ONTO EACH FRAMING MEMBER OR (2) SIMPSON MTSIZ TWIST STRAPS (TYP. UNLESS NOTED OTHERWIGE.)

BRACED WALL PANELS LOCATED AT EXTERIOR WALLS SUPPORTING RAFTERS OR ROOF TRUSSES, INCLUDING STORIES BELOW TOP STORY, SHALL BE CONSTRUCTED TO RESIST UPLIFT FORCES INCLIDING STORED BELOW TOP STORT, SHALL BE CONSTRUCTED TO RESIST UPLIFF FORCES CONTINUOUS FROM ROOF TO FOUNDATION. EXTERIOR SHEATHING SHALL SECURE STORT ABOVE AND BELOW FLOOR BAND BY LAPPING ONTO OR ACROSS BAND, WHERE EXTERIOR SHEATHING IS INSTALLED WITH HORIZONTAL. JOINT SPLICE AT THE TOP AND/OR BOTTOM OF THE FLOOR BANDS, SECURE EXTERIOR SHEATHING AND/OR BAND ACROSS SPLICE AT THE BRACED WALL PANELS WITH SIMPSON LITHE FRAMING FLATES AT 24° OC. MAX. OR SIMPSON CSIG COLL STRAPS AT 48° OC. MAX. (TWO STRAPS MIN. PER BRACED WALL PANEL) LAPPING THE WALL FRAMING 14° MIN.

WALLS PARALLEL TO JOISTS - PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR MALES PARALLES ID USING - PROVIDE DOBLE JOIS MUDER ALL WALLS FARALLES ID HUGR JOISTS, DOUBLE JOISTS SEPARATED TO FEMITI THE INSTALLATION OF PIPING ON VENTS SHALL BE FULL DEPTH SOLID BLOCKED MITH LIMBER NOT LESS THAN 2" SPACED NOT MORE THAN 4"-0" OC. PROVIDE SUPPORT INDER ALL HALLS PARALLEL TO FLORE TRUSSES OR T-JOISTS FER MANEACTURER'S SPECIFICATIONS, INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.

BRICK SUPPORT - FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REAL AS A 5" A 4" > SING STELL ANGLE WITH A "MINITUM ENBEDYNENT AT SIDES FOR BRICK SUPPORT, FOR ALL HEADERS 8"-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5//6" STELL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT, FOR ALL BRICK SUPPORT AT ROOF I NES BOLT & 6" x 4" x 5/6" STEEL ANGLE TO 2 x 12 BLOCKING INSTALLED BETWEEN WALL STUDS WITH 12" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH BEETWEEN WALL STUDS WITH 12" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.822 OF THE 2018 NGR.

DORTER REATING - FRAME DORTER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO). FRAME DORTER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" OC. BETWEEN ADJACENT ROOF TRUSSES, STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 6" O.C. AND FLAT 2 x 10 VALLEYS (UNO)

 $\underline{\text{PECKS}}$  - All deck framing, lateral bracing, guardrail construction, attachment to the house structure and the connections within the deck framing are to comply with appendix M of the NCRC.

ENERGY EFFICIENCY - ENERGY EFFICIENCY COMPLIANCE TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC. THE BUILDING THERMAL ENVELOPE SHALL MEET THE REQUIREMENTS OF TABLE NII02.12 BASED ON THE CLIMATE ZONE SPECIFIED.

### WIND ZONE AND CLIMATE ZONE BY COUNTY

		WIND ZONE (MPH.	v	WIND ZONE (MPH)/
	COUNTY	CLIMATE ZONE	COUNTY	CLIMATE ZONE
	ALAMANCE	15/4	JOHNSTON	120/3
	ALEXANDER	115/4	JONES	140/3
	ALLEGHANY	5MR / 5	LEE	115/4
	ANSON	115/3	LENOIR	1300/3
	ASHE	5MR / 5	LINCOLN	115/4
	AVERY	SMR / 5	MACON	115/4
	BEAUFORT	130/3	MADISON	SMR / 4
	BERTIE	120/130 / 4	MARTIN <sup>9</sup>	120/130 / 3
	BLADEN <sup>b</sup>	130/140 / 3	MCDOWELL	115 / 4
	BRUNSWICK <sup>C</sup>	140/150 / 3-WHC	MECKLENBURG	115/3
	BUNCOMBE	SMR / 4	MITCHELL	SMR / 5
	BURKE	115/4	MONTGOMERY	115/3
	CABARRUS	115/3	MOORE	115/3
	CALDWELL	115/4	NASH .	115/4
	CAMDEN	130/3	NEW HANOVER <sup>h</sup>	140/150 / 3-WHC
	CARTERET	150/3-WHC	NORTHAMPTON	15/4
	CASWELL	115/4	ONSLOW	130/140/150 / 3-WHC
	CATAWBA	115/4	ORANGE	115 / 4
	CHATHAM	115/4	PAMLICO	140/3
	CHEROKEE	115/4	PASQUOTANK	130/3
	CHOWAN	130/3	PENDER	130/140/150 / 3-WHC
	CLAY	115/4	PERQUIMANG	130/3
	CLEVELAND	115/4	PERSON	115 / 4
	COLUMBUS	140 / 3-WHC	PITT	130/3
	CRAVEN	140/3	POLK	115/4
	CUMBERLAND <sup>d</sup>	120/130 / 3	RANDOLPH	115/3
	CURRITUCK	130/3	RICHMOND	120/3
	DARE	130/140 / 3	ROBESON	130/3
	DAVIDSON	115/3	ROCKINGHAM	115/4
	DAVIE	115/4	ROWAN	115/3 115/4
	DUPLIN DURHAM	130/3 115/4	RUTHERFORD SAMPSON	13/2/3
	EDGECOMBE	15/4	SCOTLAND	120/3
	FORSYTH	115/3	STANLY	15/3
	FRANKLIN	15/4	STOKES	15/4
	GASTON	15/3	SURRY	15/4
	GATES	120/4	SWAIN	SMR/4
	GRAHAM	SMR / 4	TRANSYLVANIA	115/4
	GRANVILLE	115/4	TYRRELL	130/3
,	GREENE	130/3	UNION	15/3
	GUILFORD	115 / 4	VANCE	115/4
ı.	HALIFAX	15/4	WAKE	115/4
	HARNETT	115/4	WARREN	115/4
	HAYWOOD	SMR / 4	WASHINGTON	130/3
	HENDERSON	115/4	WATAUGA	SMR / 5
)	HERTFORD	115/4	WAYNE	130/3
	HOKE	120/3	WILKES	115 / 4
	HYDE	130/140 / 3	WILSON	120/3
	IREDELL	115/4	YADKIN	115 / 4
	JACKSON	SMR / 4	YANCEY	SMR / 5

ROOF CLADDING (PSE) UND ZONE MEAN ROOF PITCH ROOF (MPH) HEIGHT (FT) Ø < X < 25 25 < X < 1 1 -< 30 100, -360 100, -330 13. 307 < h < 35 | 105, -37,8 | 105, -34,7 | 13,8 115 35 < h < 40 10.9, -39.2 10.9, -36.0 14. 40 < h < 45 | 112, -403 | 112, -37.0 | 14. < 30 10.0, -39.0 10.0, -36.0 14.2 30 < h < 35 105, -410 105, -365 14 12Ø 35 < h < 40 10.9, -42.5 10.9, -37.9 15.5 40 < h < 45 | 112, -43.7 | 112, -39.0 | 15.9 < 30 100, -460 105, -430 16. 30 < h < 35 10.5, -48.3 11.0, -45.2 17.5 130 35 < h < 40 10.9, -50.1 11.4, -46.9 182 40 < h < 45 | 112, -51.5 | 11.8, -48.2 | 18.7, < 30 100, 530 122, -490 19.4, 30 < h < 35 10.5, -55.7 12.8, -51.5 20. 140 35 < h < 40 10.9, -57.8 13.3, -53.4 21.1, 40 < h < 45 | 112, -59,4 | 13,7, -54,9 | 21,-< 30 9.9, -610 140, -570 222, 30 < h < 35 10.4, -64.1 14.1, -59.9 23. 15Ø 35 < h < 40 108, -665 153, -621 242 40 < h < 45 111 -683 15.7 -638 24

WALL AND ROOF CLADDING DEGIG

(POSITIVE AND NEGATIVE PS

-SMR DESIGNATES "SPECIAL MOUNTAIN REGION"

-51% DEBIGNATES "SPECIAL FROM HIM REGISTAN -HIC DEBIGNATES "HARPH-HIMTID COUNTY" a. 1/20 MPH ZONE WEST OF HINY TI, 1/20 MPH ZONE EAST OF HINY TI, b. 1/20 MPH ZONE WEST OF HINY TI, 1/20 MPH ZONE EAST OF HINY TI, c. 1/20 MPH ZONE WEST OF HINY TI, 1/20 MPH ZONE EAST OF HINY TI, 1/20

d. 120 MPH ZONE ON BALD HEAD ISLAND. d. 120 MPH ZONE WEST OF 1-95, 130 MPH ZONE EAST OF 1-95.

e. 130 MPH ZONE WEST OF US ROUTE 264, 140 MPH ZONE EAST OF US

ROUTE 264 . 130 MPH ZONE WEST OF US ROUTE 264, 140 MPH ZONE EAST OF US

ROUTE 264.

ROUTE 264. 9, 129 MPH ZONE MEST OF HAY 11, 139 MPH ZONE EAST OF HAY 11. 1. 149 MPH ZONE MEST OF HAY 11, 159 MPH ZONE EAST OF HAY 11. 1. 130 MPH ZONE MEST OF HAY 11, 140 MPH ZONE EAST OF HAY 11 TO THE INTRACOASTAL WATERWAY, 159 MPH ZONE EAST OF THE INTRACOASTAL WATERWAY

MATERNAT. J. 140 MPH ZONE IN THE TOWNSHIP OF TOPSAIL WEST OF THE INTRACOASTAL WATERWAY, 150 MPH ZONE EAST OF THE INTRACOASTAL WATERWAY, 130 MPH ZONE IN THE REMAINDER OF THE COUNTY.

TABLE NII/22.12	
INSULATION AND FENESTRATION REQUIREMENTS BY	COMPONENT <sup>®</sup>

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>6, J</sup>	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE'''	WOOD FRAME WALL R-VALUE®	MASS WALL R-VALUE'	FL <i>OO</i> R R-VALUE	BASEMENT WALL <sup>C, O</sup> R-VALUE	SLAB <sup>d</sup> R-VALUE AND DEPTH	CRAWL SPACE <sup>C</sup> WALL R-VALUE
3	Ø.35	055	030	38 OR 30 CI	15 OR 13+2.5 <sup>h</sup>	5/13 OR 5/10 CI	19	5/13 <sup>f</sup>	Ø	5/13
4	Ø.35	Ø.55	0.30	38 OR 30 CI	15 OR 13+25 <sup>h</sup>	5/13 OR 5/10 CI	19	10/13	10 <sup>d</sup>	10/13
5	Ø.35	0.55	NR	38 OR 30 CI	19, 13+5 <sup>7</sup> , OR 15+3 <sup>h</sup>	13/17 OR 13/12.5 CI	30 <sup>9</sup>	10/13	10 <sup>d</sup>	10/19

a. R-VALUES ARE MINIMUMS, U-FACTORS AND SHGC ARE MAXIMUMS, WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE NSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE

b. THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SHGC

C.U.IN APPLIES TO ALL GLAZED FENESTRATION c. "10/15" MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-15 CAVITY INSULATION AT THE INTERIOR OF

THE BASEMENT WALL OR CRANL SPACE VALL. d. R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNLARD, TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 24" BELOW GRADE, WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION ALL OR 24", WHICHEVER IS LESS. (SEE APPENDIX O)

e. DELETED F BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID

T. DAGETIENT PARLE INSULATION TO TREAMED IN ANY THAT THAT THE LOCATION & DEFINED BY FIGURE NIGHT AND TABLE NIGHT. 9. OR NOULATION SUFFICIENT TO FILL THE FRANKS CAVITY, R-19 MINIMUM. 1. THE FIRST VALUE IS CAVITY NOULATION THE SECOND VALUE IS CONTINUOUS NOULATION, 50 "13-5" MEANS R-13 CAVITY NOULATION FILLS R-5 CONTINUOUS INSULATION, US ISIS TEATION EN CAVITY INSULATION FLUS RES CONTINUOUS INSULATION, US TRUCTURAL SHEATHING COVERS 25% OR LESS OF THE EXTEROR, INSULATING SHEATHING IS NOT RECUIRED MHERE STRUCTURAL SHEATHING IS USED. IF STRUCTURAL SHEATHING COVERS MORE THAN 25% OF EXTERIOR STRUCTURAL SHEATHING SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2.

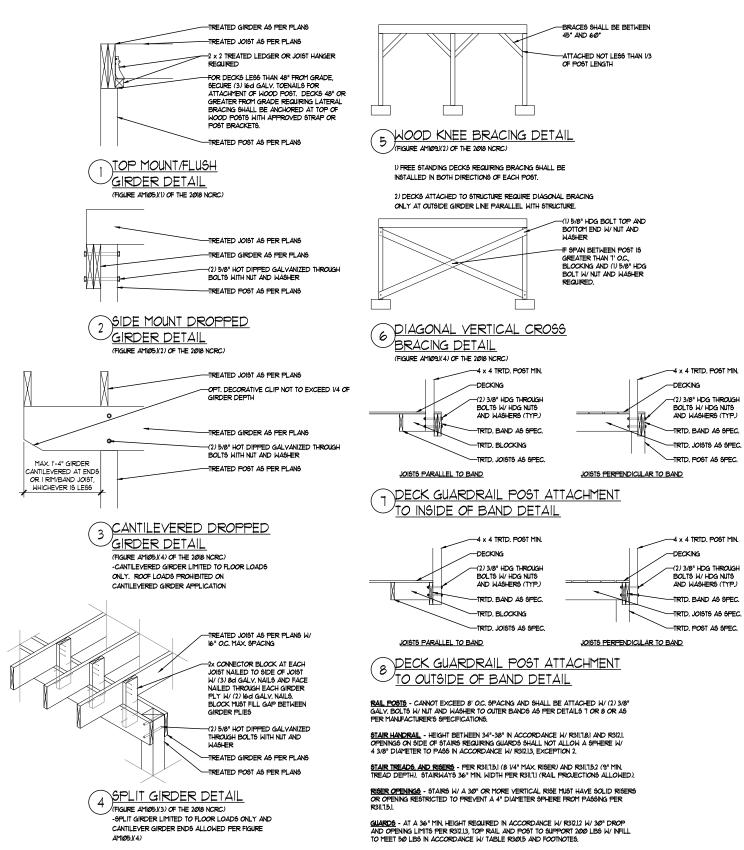
1. THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION 19 ON THE INTERIOR OF THE MASS WALL 1. IN ADDITION TO THE EXEMPTION IN SECTION NIKO233, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN & 55 SHALL BE PERMITTED TO BE SUBSTITUTED FOR ININUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT FENALTY. K. IN ADDITION TO THE EXEMPTION IN SECTION NIKO233, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY. LEVEL DEVICES OF ALL DE DEPED TO SATISFY THE CELLING INSULATION RECURRENT NHEREVER THE RULL HEIGHT OF INCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. OTHERNISE R-38 INSULATION IS RECURRED NHERE ADEQUATE CLEARANCE OTHERNOE RESOLUTION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN I' OF THE ATTIC ROOF DECK. m. TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF, THERE THE INSULATION MUST FILL THE

LITTLE DI THE FICH OF THE ROOT, THERE THE INCULATION THAT THE SPACE UP TO THE AIR BAFFLE. A.R-19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2x6 FRAMING CAVITY 19 DEEMED TO COMPLY. FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED AND INSTALLED IN A 2x4 WALL 15 NOT DEEMED TO COMPLY. O. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT

CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT

LOADS	
BY	WALL
	CLADDING
× < 12	(199F)
, -16Ø	14.3, -19Ø
3, -16.8	15.Ø, -2ØØ
3, -11.4	15.6, -20.1
1, -11.9	16Ø, -21.3
2, <b>-18Ø</b>	15.5, -2 <i>0.0</i>
ə, -18.9	16.3, -21Ø
5, -19.6	16.9, -21.8
), -2 <i>0</i> ,2	11.4, -22.4
1, -21Ø	18.2, -24.Ø
5, -22.1	19.1, -25.2
2, -22.9	19.8, -26.2
1, -23.5	20.4, -26.9
i, -24Ø	212, -28Ø
4, -25.2	22.3, -29.4
, -26.2	23.1, -3 <b>0</b> .5
, -26.9	23.1, -31.4
2, <b>-28Ø</b>	24.3, -32Ø
3, -29.4	25.5, -33.6
2, -305	26.5, -34.9
9, -3l4	272, -35.8





DECKING - PER AMIØT FOR 2 SYP AND ATTACHED W/ (2) 8d GALV, NAILS AT EACH JOIST OR APPROVED SCREWS, OTHER MATERIALS PER MANUFACTURER'S INSTALLATION BASED UPON JOISTS OC. SPACING, ALTERNATE MATERIAL ATTACHED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

DECKS ARE TO BE CONSTRUCTED AS PER APPENDIX M OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE (NCRC)

DECK ATTACHMENT - AS PER SECTION AMIØ4 OF THE 2018 NCRC, WHEN A DECK SHALL BE SUPPORTED AT THE STRUCTURE BY ATTACHING THE DECK TO THE STRUCTURE, SECURE DECK TO STRUCTURE AS PER TABLE AMIØ4.(1), TABLE AMIØ4.(2), METHOD 3 OR METHOD 4 BELOW:

TABLE AMIØ4.(1) ALL STRUCTURES EXCEPT BRICK VENEER STRUCTURES

FASTENERS	8' MAX, JOIST SPAN <sup>a</sup>	16' MAX, JOIST SPAN <sup>a</sup>
5/8" HDG BOLTS W/ NUT AND WASHER <sup>6</sup>	# 3'-6" O.C.	i ● i'-8" O.C.
AND	AND	AND
12d COMMON HDG NAILS <sup>c</sup>	2 • 8" O.C.	3 <b>0 6" O.C</b> .
	ØR	
SELF-DRILLING SCREW FASTENER <sup>d</sup>	12" O.C. STAGGERED	6" O.C. STAGGERED

a. ATTACHMENT INTERPOLATION BETWEEN &' AND 16' JOISTS SPAN IS ALLOWED.

b. MIN. EDGE DISTANCE FOR BOLTS (§ 21/2).
c. NALLS MIST PENETRATE THE SUPPORTING STRUCTURE BAND A MIN. OF 11/2".
d. SELF-ORLING SCREEN FASTERER HAVING A MINIMUM SHANK DIAMETER OF Ø/35"
AND A LENGTH LONG ENOUGH TO PENETRATE THROUGH THE SUPPORTING STRUCTURE BAND. THE STRUCTURE BAND SHALL HAVE A MINIMUM DEPTH OF 11/8". SCREW SHALL Dandy, the structure dand shall have a finintum depth of 11/2". Schen shall be evaluated by an approved testing agency for allowable shear load for syp to styp limber of 3/20 lbs, and shall have a corresion-resistant finish equivalent to hot dip galvanized. Minimum edge distance for screws is I 1/16". A MAXIMUM OF 1/2" THICK WOOD STRUCTURAL PANEL IS PERMITTED TO BE LOCATED BETWEEN THE DECK LEDGER AND THE STRUCTURE BAND.

## TABLE AMIØ4.(2) BRICK VENEER STRUCTURES

FASTENERS         8' MAX. JOIST SPAN <sup>a</sup> 16' MAX. JOIST SPAN <sup>a</sup> 5/8" HDG BOLT9 W/         Loop Hog         Loop Hog
5/8" HDG BOLTS W/
NUT AND WASHER $1 = 2' - 4" O.C.$ $1 = 1' - 4" O.C.$

a. ATTACHMENT INTERPOLATION BETWEEN &' AND 16' JOISTS SPAN IS ALLOWED b. MIN. EDGE DISTANCE FOR BOLTS IS 2 1/2

METHOD 3) IF THE DECK BAND IS SUPPORTED BY A MIN. OF 1/2" MASONRY LEDGE ALONG THE FOUNDATION WALL, SECURE DECK TO STRUCTURE W/ 5/8" HDG BOLTS W/ WASHERS SPACED AT 48" O.C.

 $\underline{\text{METHOD 4}}$  JOIST HANGERS OR OTHER MEANS OF ATTACHMENT MAY BE CONNECTED TO HOUSE BAND AND SHALL BE PROPERLY FLASHED.

DECK BRACING - AS PER SECTION AMION OF THE 2018 NORC, THE DECK SHALL BE LATERALLY BRACED AS PER ONE OF THE FOLLOWING:

I) WHEN THE DISTANCE FROM THE TOP OF THE DECK FLOOR TO THE FINISHED GRADE IS LESS THAN 4'-O' AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION AMIØA LISTED ABOVE, LATERAL BRACING IS NOT REQUIRED. LATERAL BRACING IS NOT REQUIRED FOR FREE STANDING DECKS WITH A DECK FLOOR HEIGHT OF 30" OR LESS ABOVE FINISHED GRADE.

2) 4 x 4 TREATED WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE HARLED BETKEEN 45 AND 60° FROM THE HORIZON FLAT HAR HEREACES SHALL BE BOLTED TO THE POST AND THE GIRDER/DOUBLE BAND W/ (1) 5/8° HDG BOLT WITH NUT AND WASHER AT BOTH ENDS OF THE BRACE PER DETAIL 5.

3) FOR FREE STANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POST IN ACCORDANCE WITH TABLE AMIONIZ, DECKS ATTACHED TO STRUCTURE CAN ALSO BE BRACED ON EXTERIOR GIRDER LINE W/ EMBEDMENT OPTION.

### TABLE AMIZAL

POST SIZE	MAX. TRIBUTARY AREA	MAX. POST HEIGHT <sup>a</sup>	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 x 4	48 5Q. FT.	4'-Ø"	2'-6"	1'-Ø"
6 x 6	120 5Q. FT.	6'-0"	3'-6"	l' <b>-8</b> "

a. FROM TOP OF FOOTING TO TOP OF DECKING

4) 2 x 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREE STANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLLIMN LINE FOR ATTACHED DECKS, THE 2 x 6's SHALL BE ATTACHED TO THE POSTS W(1) 5/8" HDG BOLT W/ NUT AND WASHER AT EACH END OF EACH BRACING MEMBER PER DETAIL 6.

5) FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.



