Carriage Circle Lot 1170 - 80 Spruce Hollow Circle, Spring Lake, 28390

Harnett County Created: 10/7/2020

Elevation: European

Slab

BUILD PER PLAN



2550 Capitol Drive Suite 105 Creedmoor, NC 27522 919-528-1347

2334 The Nicklaus II - RH

REVISION LOG						
Rev	Description	Drawn By	Date	Sheets Affected	Brochure Required	Engineering Required
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SQUARE FOOTAGE							
	HERITAGE EUROPEAN		HERITAGE FARMHOUSE				
	UNHEATED	HEATED	UNHEATED	HEATED			
FIRST FLOOR	0	971	0	971			
SECOND FLOOR	0	1363	0	1363			
REAR COVERED PORCH	50	0	50	0			
FRONT PORCH	120	0	120	0			
GARAGE	472	0	472	0			
SUBTOTALS	642	2334	642	2334			
TOTAL UNDER ROOF	2976		2976				
0	PTIONS						
	UNHEATED S.F.	HEATED S.F.					
	0	0					
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Sheet No. Sheet Description				
0.0	Cover Sheet			
2.1	First Floor Plan			
2.2	Second Floor Plan			
3.A.0 Heritage European Front & Right Elevations				
3.A.1 Heritage European Left & Rear Elevations				
3.A.2	Heritage European Roof Plan			
3.B.0	Heritage Farmhouse Front & Right Elevations			
3.B.1	Heritage Farmhouse Left & Rear Elevations			
3.B.2	Heritage Farmhouse Roof Plan			
S.1.1	Crawl Foundation			
S.1.2	Slab Foundation			
S.2.1	Second Floor Framing			
S.3.1	Attic Floor Framing			
S.4.1	Roof Plan - Heritage European			
S.4.2	Roof Plan - Heritage Farmhouse			





2550 Capitol Drive Creedmoor, NC 27522 919-528-1347

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CURRENT REVISION DATE:

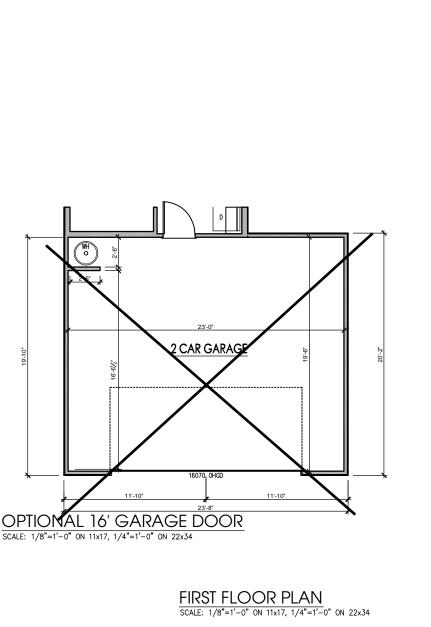
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General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

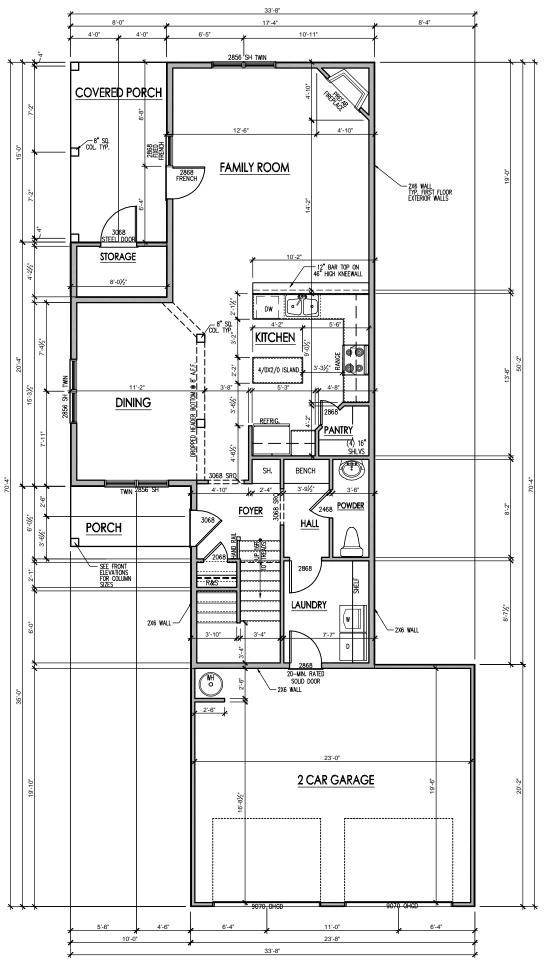
- Wall Heights: Typically 10°-1-1/2" at first floor and second floor, and 9° 1-1/2" at affics U.N.O.. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 4" at exterior walls, 3-1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing lixtures. Walls greater than 10' high shall be framed will zx6 framing or greater and will be noted as a special condition where it occurs on plane.
- Header height shall be 8'-0" AFF at First Floor, and 7'-6" AFF at Second Floor unless noted otherwise.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4
 jack stud SPF on each side. Openings greater than
 3'-4" wide shall have (2) 2x4 jack studs SPF on each
- Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinety.
- Door & Window Frames, where occurring near corners, shall be a minimum of 6' from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass of hazardous glazing areas.
 False windows shall be installed with obscure
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf, open wire. Closets for linen shall have 5 open wire shelves. Closets for partitles shall have 5 wood shelves, painted.
- Stair treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
- 10. Handralis and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handralis at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balisters) shall be spaced with no more than 4" between guards.
- Aftic Access shall be provided at all aftic area with a height greater than 30°. Minimum clear aftic access shall be 20° x 30°. Pull down statis and access doors in knee walls meeting minimum criteria are also acceptable.
- 12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and
- 13. Garage Walls, as a minimum, shall be separated from living space and living space attic by installing 1/2" gypsum board on the garage side of the wall.

SQUARE FOOTAGE HERITAGE EUROPEAN & FARMHOUSE						
UNHEATED S.F. HEATED S.F.						
FIRST FLOOR	0	971				
SECOND FLOOR	0	1363				
FRONT PORCH	50	0				
COVERED PORCH	120	0				
GARAGE	472	0				
TOTAL	642	2334				
	OPTIONS					
	UNHEATED S.F.	HEATED S.F.				



FIRST FLOOR PLAN SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34







2550 Capitol Drive Suite 105 Creedmoor, NC 27522 919-528-1347

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First Floor Plan	2	-	
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	DRAWN BY:
	South Designs
	ISSUE DATE:

CURRENT REVISION DATE:

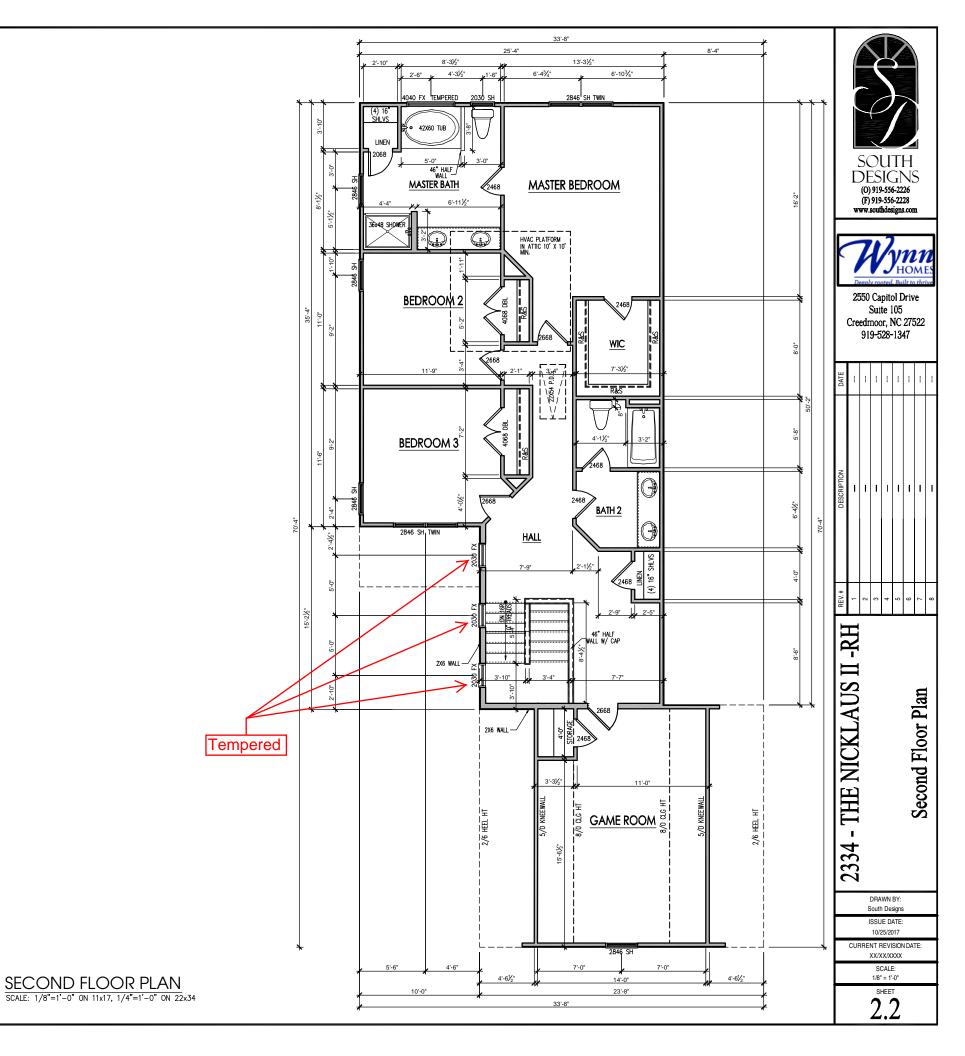
XX/XX/XXXX SCALE: 1/8" = 1'-0"

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General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

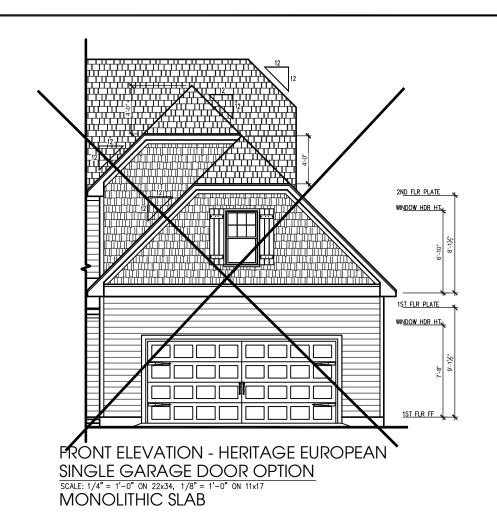
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- Wall Thickness is typically 4° at exterior walls, 3-1/2° at interior. 2x6 frome shall be used at walls that back up to plumbing fixtures. Walls greater than 10° high shall be fromed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- Header height shall be 8'-0" AFF at First Floor, and 7'-6" AFF at Second Floor unless noted otherwise.
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- Door & Window Frames, where occurring near corners, shall be a minimum of 6' from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- 7. Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf, open wire. Closets for linen shall have 5 open wire shelves. Closets for pantries shall have 5 wood shelves, painted.
- Stair treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
- 10. Handralis and Guards at stairs shall be 34° above the finished surface of the ramp surface of the stair. Handralis at landings and overlooks of multilevel spaces shall be 35° above finished floor. Guards (pickets or ballsters) shall be spaced with no more than 4° between guards.
- Aftic Access shall be provided at all aftic area with a height greater than 30°. Minimum clear aftic access shall be 20° x 30°. Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
- 13. Garage Walls, as a minimum, shall be separated from living space and living space attic by installing 1/2" gypsum board on the garage side of the wall.

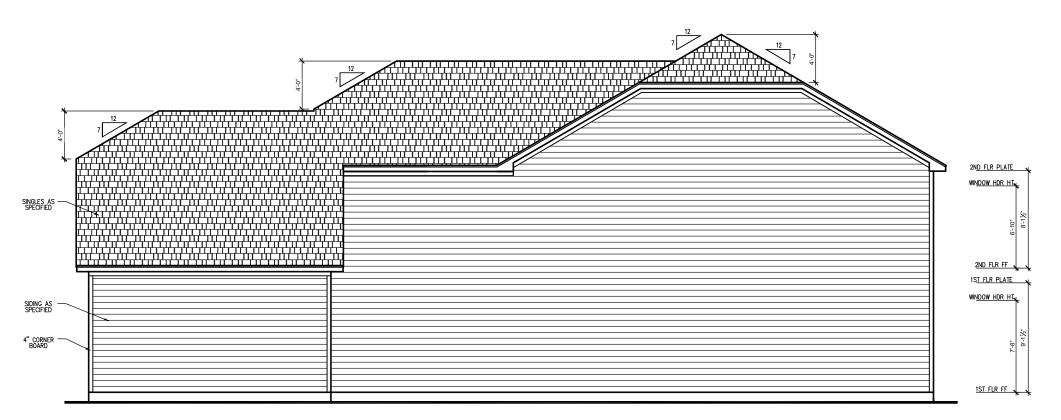




FRONT ELEVATION - HERITAGE EUROPEAN SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

MONOLITHIC SLAB





RIGHT SIDE ELEVATION - HERITAGE EUROPEAN

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

MONOLITHIC SLAB





2550 Capitol Drive Suite 105 Creedmoor, NC 27522 919-528-1347

A 2 2 A TITLE NITOTIVE A FIGURE DIT	REV.#	DESCRIPTION	DATE
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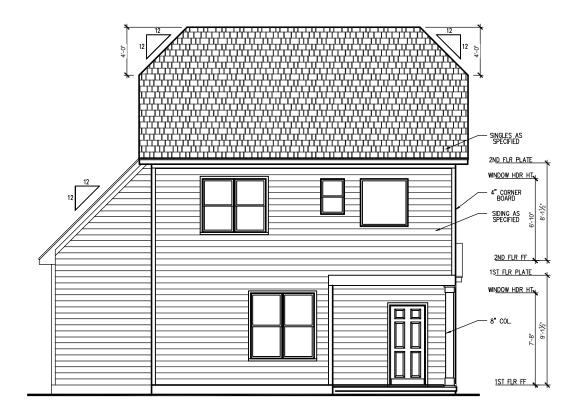
DRAWN BY:

10/25/2017

CURRENT REVISION DATE: XX/XX/XXXX

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





REAR ELEVATION - HERITAGE EUROPEAN SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

MONOLITHIC SLAB





2550 Capitol Drive Suite 105 Creedmoor, NC 27522 919-528-1347

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Heritage European Rear & Left Elevations 2334 - THE NICKLAUS II -RI

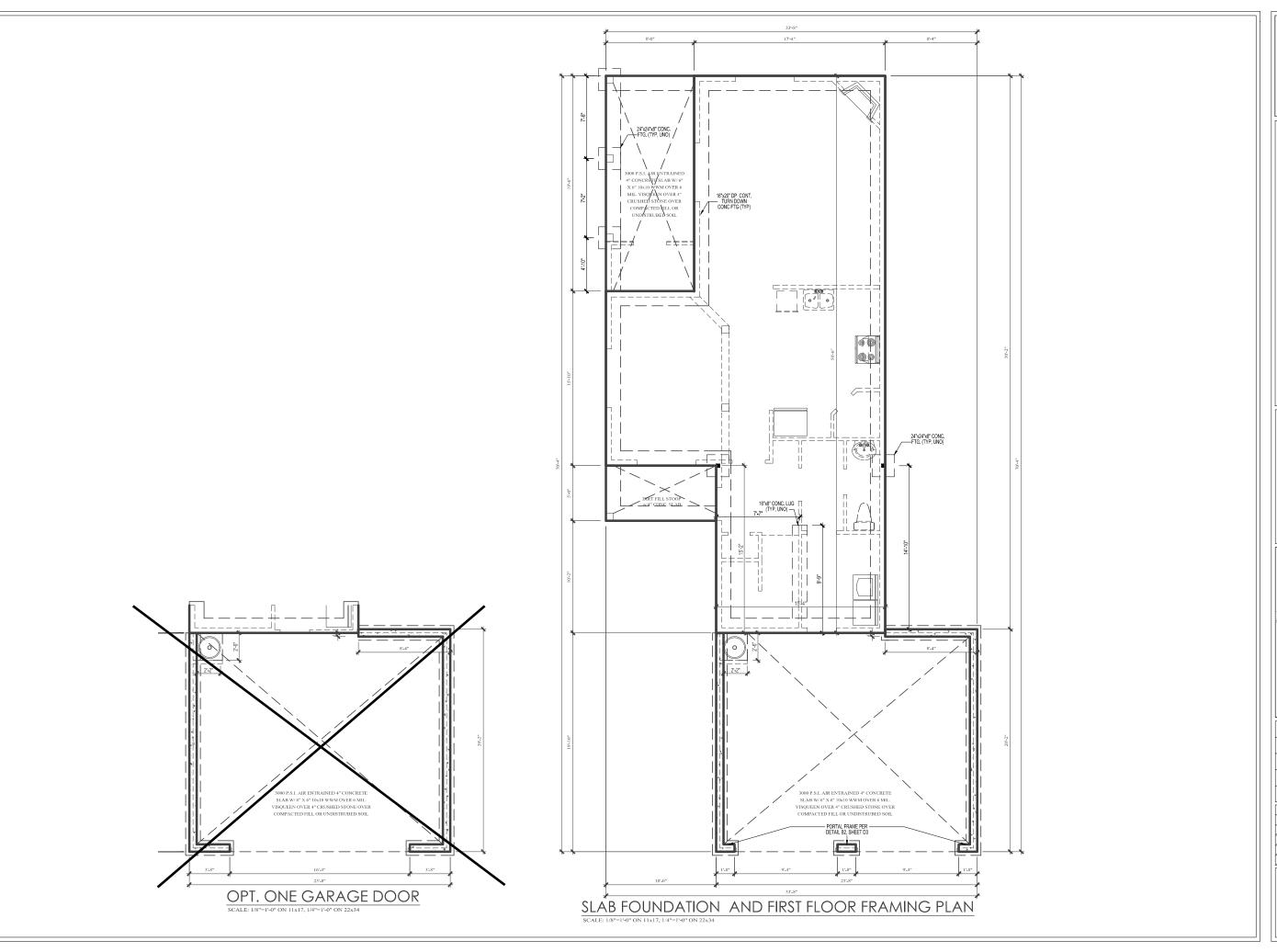
DRAWN BY:

South Designs

10/25/2017

CURRENT REVISION DATE: XX/XX/XXXX SCALE: 1/8" = 1'-0"

3.A.1



* Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.
*Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Fallure to do so will void Tyndall Engineering & Design, P.A. Isability.

*Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.

TYNDALL ENGINEERING & DESIGN, PA



Plan: THE NICKLAUS II GARAGE RIGHT



Project #:
1901-010039

Date:
1/18/19
Drawn/Design By:
ISE
DWG. Checked By:
PAT
Scale:
SEE PLAN

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S2

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION		
	(/	(/	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	L/240	
ATTIC (w/ storage)	20	10	L/240	L/180	
ATTIC (no access)	10	5	L/240	L/180	
EXTERNAL BALCONY	40	10	L/360	L/240	
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)				
SEISMIC	BASED C	N SEISMIC ZO	DNES A. E	3 & C	

- STRUCTURAL NOTES:

 1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE". IN ADDITION TO ALL LOCAL CODES AND REQUIATIONS.

 2) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SOUARE FOOTAGE ERRORS CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SOUARE FOOTAGE ERRORS CNCE CONSTRUCTION BEGINS.

 3) ALL LUMBER SHALL BE SYP #2 (UNO)
 ALL LVI. LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND FID = 2600 PSI, E = 1.9M PSI (I.E. ILEVIEL MICROLAM)
 ALL LSIL LUMBER TIS TO BE 1.55E (Fb = 2325 PSI)

 4) ALL LOAD ERRORS EXTERIOR WINDOW HEADERS WITH MAXIMUM SPAN OF 5-6" SHOULD BE A (2) 2x10 w/ (1) 2x4 KING STUD AND (1) 2x4 JACK STUD NAILED TOCETHER WINDOW HEIGHT IS 6"-6" SHOULD BE A (2) 2x10 w/ (1) 10 d b 8" 0.0. PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 1"-6". WINIMIMIM BOTTOM OF THE WINDOW HEIGHT IS 1"-6". THE WINDOW HEIGHT IS 1"-

- ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASCNEY. PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9"-0" (UNO) 13) PROVIDE A MINIMUM OF 500# UPLIET & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.) 14) PROVIDE CONTINUOUS SHEATHING PER SECTION BOZIOL4 OF THE 2018 INC.

 15) MASKULM MASSIST HEIGHT SHALL NOT EXCEED FOUR MASSIST HEIGHT STALL NOT EXCEED FOUR
- TIMES TS LEAST HORIZONTAL INHUSION.

 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.

 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

¥-

- STRUCTURAL SHEATHING NOTES

 - DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
 WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC.
 BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
 - 1 REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
 - INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
 - (2) 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED № 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
 - $\overline{\langle 3 \rangle}$ 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE W/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS

 - 5) EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
 6) ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 64 COMMON NAILS SPACED AT 6" OC AT TABME FIGSES AND SPACED AT 12" OC AT T
 - SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 0.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS.

 7 MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS:

 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT
 - 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT. 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
 - 4 SHEATH INTERIOR & EXTERIOR
 - 8) FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE REO2.10.3(4), IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF BOOD SHALL BE FASTENED TO THE EOGO OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.

BRACING PANEL LENGTHS REQUIRED: BWL 3 = 3.2 FT

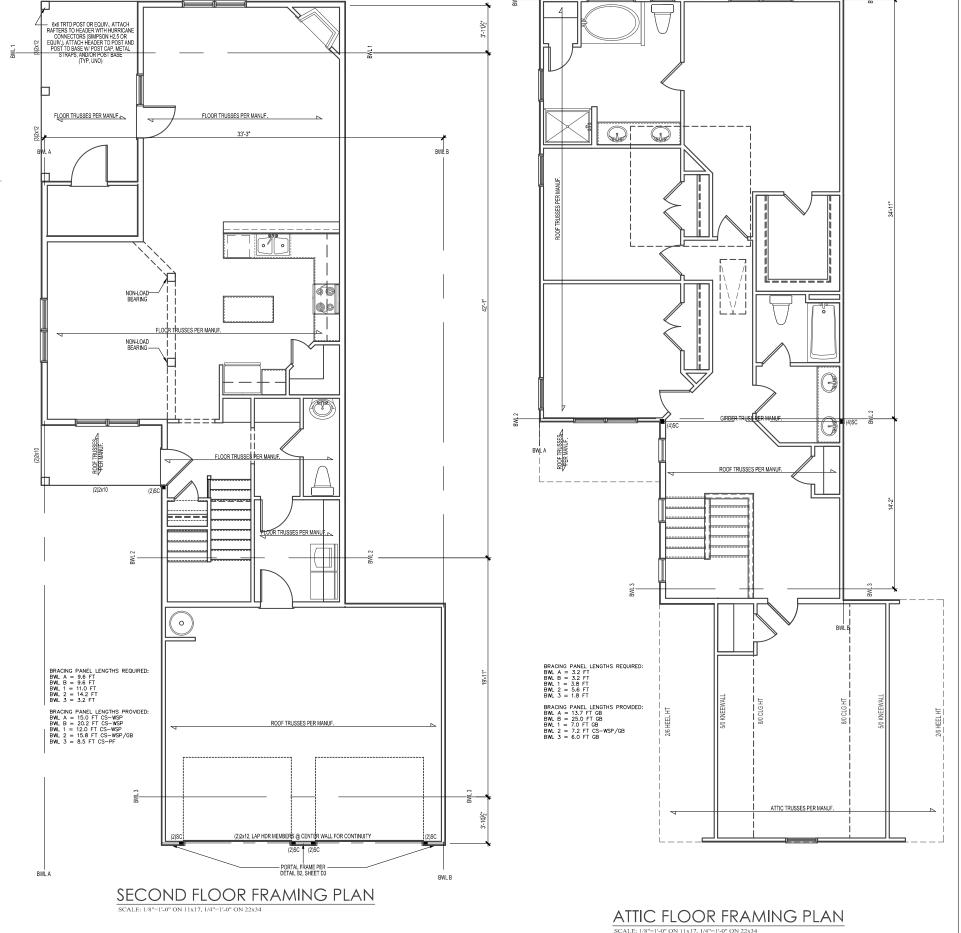
BRACING PANEL LENGTHS PROVIDED: BWL 3 = 7.7 FT CS-WSP

(5) MINIMUM 800# HOLD-DOWN DEVICE

ROOF TRUSSES PER MANUF.

L 16' GARAGE DOOR

-0" ON 11x17, 1/4"=1'-0" ON 22x34



* Engineers seal does not include construction means, methods, techniques, seq procedures or safety precaution plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering Failure to do so will void Tyndal Engineeri & Design, P.A. faibility.

*Please review these documents carefully.
Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendat etc. presented in these documents were deemed acceptable once construction begins.

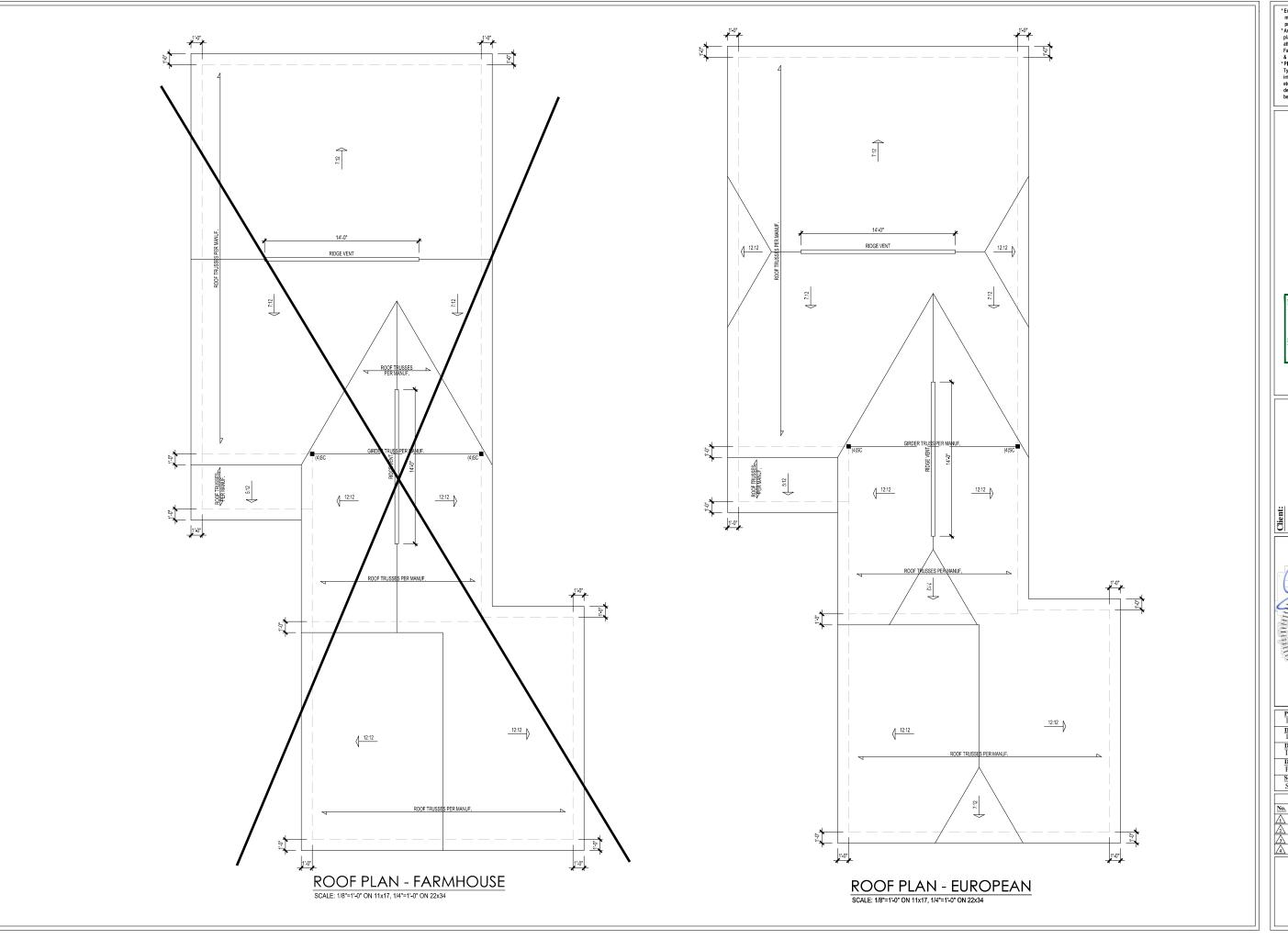




Project #: 1901-010039 Date: 1/18/19 Drawn/Design By DWG. Checked By: SEE PLAN

4 Sheet Number

S3

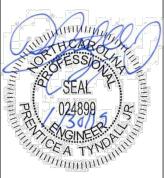


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TYNDALL ENGINEERING & DESIGN, P.A.



Plan: THE NICKLAUS II GARAGE RIGHT



Project #: 1901-010039	
<u>Date:</u> 1/18/19	
Drawn/Design By: ISE	
PAT	
Scale: SEE PLAN	

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S4

STRUCTURAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

2) DESIGN LOADS:

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE		
			LL	TL	
ALL FLOORS	40	10	L/360	L/240	
ATTIC (w/ walk up stairs)	30	10	L/360	L/240	
ATTIC (pull down access)	20	10	L/240	L/180	
ATTIC (no access)	10	5	L/240	L/180	
EXTERNAL BALCONY	40	10	L/360	L/240	
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)				
SEISMIC		SEISMIC ZON	ES A, B & C		

- 3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- 4) CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE. (U.N.O.)

- ALL FRAMING LUMBER SHALL BE SYP $\frac{1}{2}$ (Tb = 800 PS, BASED ON 2×10) UND. ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL ALL VL. LUMBER TO BE 1.75 WIDE NOMINAL EACH SNOLE MEMBER AND Fb = 2800 PS, E = 1.9M PSI (U.N.O.) ALL LSL LUMBER TO BE 3.5 WIDE NOMINAL EACH SNOLE MEMBER AND Fb = 2325 PS, E = 1.6M FSI (U.N.O.) ALL PSL LUMBER TO BE 3.5 WIDE NOMINAL EACH SNOLE MEMBER AND Fb = 2400 PS), E = 1.8M PSI (U.N.O.)
- ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50. ALL STEEL ANGLES, PLATES, AND C-CHANNELS SHALL BE ASTM A36. ALL STEEL PIPE SHALL BE ASTM A53 GRADE B.
- 9) STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO (2) LAG SCOREW (1/2" o * 4" LONG). LATERAL SUPPORT IS CONSIDERED ADCOUNTE PROVIDED THE JOSTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.
- 10) PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403.1.6: 1/2"

 ANCHOR BOLTS SPACED AT 6"-0" O.C. AND PLACED 12" FROM THE END OF EACH PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3"-0" O.C. FOR BASSMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. THERE SHALL BE A MINIMUM TWO ANCHOR BOLTS PER PLATE SECTION.
- 11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.
- 12) WALL AND ROOF CLADDING VALUES:
 WALL CLADDING SHALL BE DESIGNED FOR 28.0 POUNDS PER SQUARE FOOT (LBS/SQFT) OR GREATER POSITIVE AND NEGATIVE PRESSURE.
 ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS:
 39.0 LBS/SQFT FOR ROOF PITCHES 0/12 TO 1.5/12
 36.0 LBS/SQFT FOR ROOF PITCHES 15/12 TO 6/12
 18.0 LBS/SQFT FOR ROOF PITCHES 6/12 TO 12/12
 **MEAN ROOF HIGHES 15.0-0" OR LBS/SQFT POR ROOF PITCHES 15/12 TO 12/12
- 13) FOR ROOF SLOPES FROM 2/12 THROUGH 4/12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER.
- 14) REFER TO SECTION R602.3 FOR FRAMING OF ALL WALLS OVER 10'-0" IN HEIGHT
- 15) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 IRC
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION. 17) REFER TO TABLE N1102.1 FOR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA.
- 19) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 20) MAXIMUM MASONRY PEIR HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 21) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION.
 TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

CLIMATE ZONES	FENESTRATION U-FACTOR	SKYLIGHT ^b U-FACTOR		CEILING™ R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT [©] WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE® WALL R-VALUE
3	0.35	0.55	0.30	38 or 30 cont	15 or 13 + 2.5	5/13 or 5/10 cont	19	5/13	0	5/13
4	0.35	0.55	0.30	38 or 30 cont ^j	15 or 13 + <u>2.5</u> ^h	5/13 or 5/10 cont	19	10/15	10	10/15
5	0.35	0.55	NR	38 or 30 cont ¹	19, or 13 + 5 or 15 + 3	13/17 <u>or</u> 13/12.5 cont	30 ⁹	10/15	10	10/19

* TABLE N1102.1 CLIMATE ZONES 3-5

- NO SCALE

 OR -PAULES ARE WINNAMS, U-PACTORS AND SHOC ARE MAXAMUS, WIEN INSULATION IS INSTALLED IN A CANTY INHOLD IS LESS THAN THE LABEL OF DESKNI THORSESS OF THE RESULATION, THE INSTALLED IN-VALUE OF THE RESULATION SHALL NOT BE LESS THAN THE F-VALUE SPECIFIED IN THE TRAIL.

 THE PERSTANDIAL U-PACTOR COLUMN ELOCULIED SEVICIOLIST IS SCAME HEAT ON CONTRIBUTION.

 - OF THE ROBLANDO, THE RESIDENCE PROVIDED SYLLOPISTS. THE SOUR HEAT GAN COUPTIONT
 (SHOO) COLOR MYRES TO ALL GLAZES PRESENTANCE
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 - BOOLDING IN THE PROMOTOR OF THE FORMATION AND THE ACCUSATION AND THE SECRET PROMOTOR OF THE FORMATION AND THE ACCUSATION AND TH

972 SQ. FT. OF CRAWL SPACE / 150 = 6.48 SQ. FT. OF REQ'D VENTILATION WITHOUT CROSS VENTILATION 6.48 SQ. FT. OF VENTILATION REQ'D / 0.45 SQ.FT. PER VENT = 15 VENTS REQ'D:

- VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON PLAN, HOWEVER VENTS SHALL BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS AND TO PREVENT DEAD AIR POCKETS.
- THE TOTAL AREA OF WITHAINS OF MOST AND THE STORY THE AREA PROCESS.

 THE TOTAL AREA OF WITHAINS OF SHORES MAY E REDUCED IN 1/000 OF THE GOAR. SPACE OF THE WITHAIN OF THE STORY OF THE WITHAIN OF THE STATE OF THE WITHAIN OF WI



1650 SQ. FT. OF ATTIC / 300 = 5.50 SQ. FT. INLETS/OUTLETS REQUIRED

- CALCULATION BASED ON VENTILATORS USED AT LEAST 3"-0" ABOVE THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.



DEFINITIONS FOR COMMON ABBREVIATIONS

т.	=	ALTERNATE	MAX	=	MAXIMUM
ANT	=	CANTILEVER	MIN	-	MINIMUM
ı	=	CEILING JOIST	NOM	=	NOMINAL
/U	-	CONCRETE MASONRY UNIT	O.C.	=	ON CENTER
DL.	=	COLUMN	PL	=	PLATE
ONC	=	CONCRETE	PT	=	PRESSURE TREATED
ONT	-	CONTINUOUS	REINF	-	REINFORCED
Г	=	COLLAR TIE	REQD	=	REQUIRED
3L	-	DOUBLE	RJ	=	ROOF JOIST
A	=	DIAMETER	RS	=	ROOF SUPPORT
J	=	DOUBLE JOIST	SC	=	STUD COLUMN
₹	=	DOUBLE RAFTER	SCH	-	SCHEDULE
١.	=	EACH	SPEC	=	SPECIFIED
	-	EACH END	THK	=	THICK
1	=	FLOOR JOIST	TJ	=	TRIPLE JOIST
ID	=	FOUNDATION	TRTD	=	TREATED
G	=	FOOTING	TYP	-	TYPICAL
ALV	=	GALVANIZED	UNO	=	UNLESS NOTED OTHERW
DRIZ	-	HORIZONTAL	W	=	WIDE FLANGE BEAM
Γ	=	HEIGHT	WWF	=	WELDED WIRE FABRIC
A N II I I I	_	MANUEACTUDED	V I	_	EVIDA IOICI

1) MAXIMUM HEIGHT OF DECK SUPPORT POSTS AS FOLLOWS:

POST SIZE	MAX. POST HEIGHT**
4 × 4	8'-0"
6 x 6	20'-0"
***	OVER 20'-0"

- THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS.
 MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET
 WHICH MAY BE LOCATED AT DIFFERENT LEVELS.
 FROM TOP OF FOOTING TO BOTTOM OF GROER
 DECKS WITH POST HEIGHTS OVER 20"-0" SHALL BE DESIGNED AND
 SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- 2) DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THESE METHODS:

- A THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS
 ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4)
 ABOVE. LATERAL BRACING IS NOT REQUIRED.

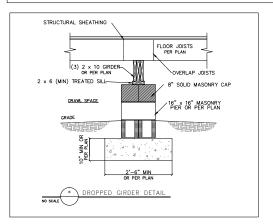
 B. 4 × 4 WOOD KINEE BRACES MAY BE PROVIDED ON EACH COLUMN IN
 BOTH DIRECTIONS. THE KINEE BRACES SHALL BATCH TO EACH POST
 AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE
 TOP OF THE POST. AND THE BRACES SHALL BE ANGLED BETWEEN
 45 AND 60 FROM THE HORIZONTAL KINEE BRACES SHALL BE BOLIZED
 BOT AT EACH END OF THE BRACE SHALL BE ANGLED BETWEEN
 CO. FOR FREESTANDING DECKS WITHOUT KINEE BRACES OR DIAGONAL
 BRACE AT A EACH END OF THE BRACE SHALL BE AGAINED.

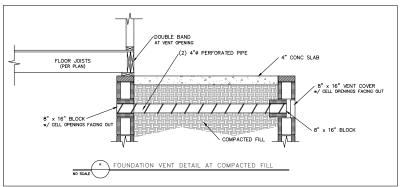
 C. FOR FREESTANDING DECKS WITHOUT KINEE BRACES OR DIAGONAL
 BRACE STRUCKS SHALL BE ANGLED BY BRACES OR DIAGONAL
 BRACE STRUCKS SHALL BY STRUCKS OF THE BRACE SHALL BE BOLIZED.

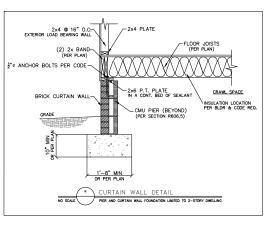
 C. FOR FREESTANDING DECKS WITHOUT KINEE BRACES OR DIAGONAL
 BRACE STRUCKS SHALL BY SHALL BY BE PROVIDED BY EMBEDDING THE
 POSTS IN ACCORDANCE WITH THE FOLLOWING:

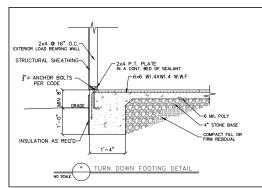
	POST SIZE	MAX. TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
ı	4 × 4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
ı	6 × 6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

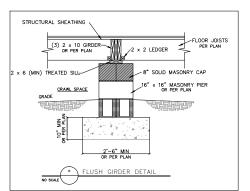
D. 2 x 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO
(2) PERPENDICULAR DIRECTIONS FOR FRESTANDING DECKS OR PARALLEL
TO THE STRUCTURE AT THE EXPERIENC COLUMN LINE FOR ATTACHED DECKS
THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8° HOT
DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER.
E. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.

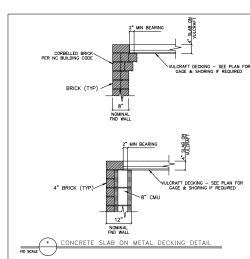


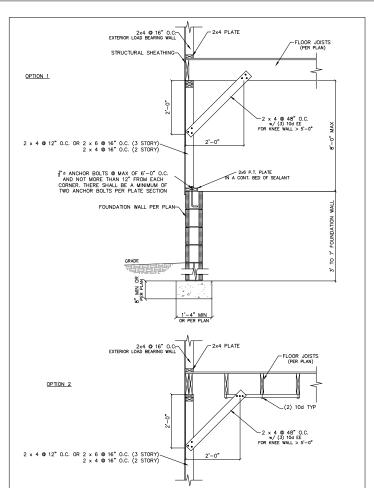


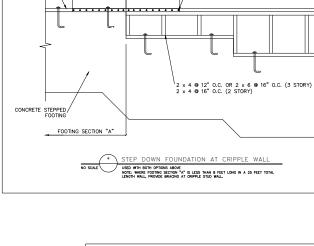






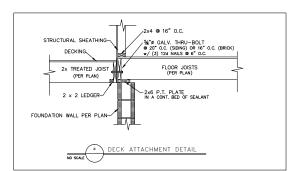






2'-0"

2x SILL PLATE



WHERE FOOTING SECTION "A" IS MORE THAN 8'-0" PROVIDE METAL TIE 16 ga \times 1.5 \times 4'-0" MIN,, EACH SIDE OF SPLICE w/ 8-16d

* Engineers seal does not include construction means, methods, techniques, sequ plans are to be brought to the immed attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndal Engineering & Design, P.A. liability.

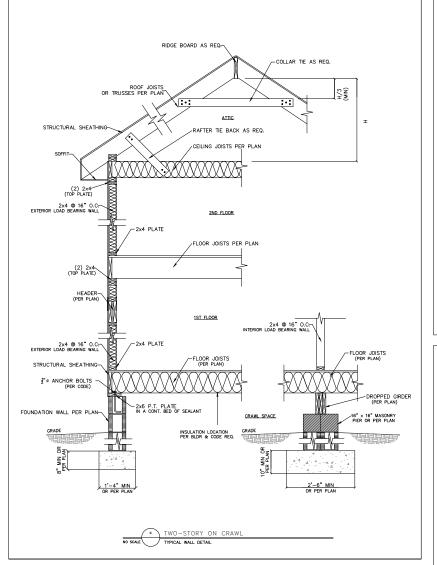
* Please review these documents carefully. * Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendation etc. presented in these documents were deemed acceptable once construction begins.

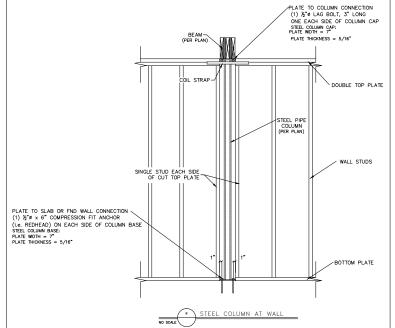
TYNDALL ENGINEERING & DESIGN, P.A.

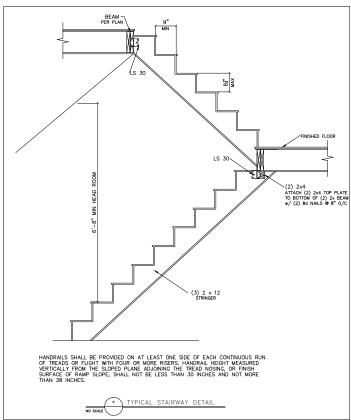


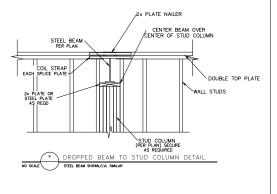


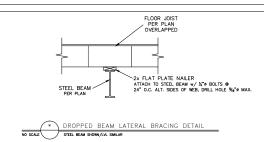
Project #: 1901-010039 Date: 1/18/19 Drawn/Design By ACS DWG. Checked By: PAT NOT TO SCALLE

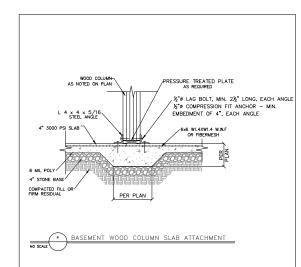


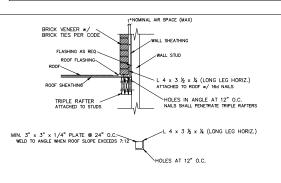












ALLOWABLE SPANS FOR LINTELS SUPPORTING MASONRY VENEER

SIZE OF ANGLE ^(1,3)	NO STORY ABOVE(5)	1 STORY ABOVE(5)	2 STORIES ABOVE (5)	# OF ½" (OR EQUIV.) REINFORCING BARS IN REINFORCED LINTEL(2.4.5)
L 3 × 3 × 1/4	6'-0"	4'-6"	3'-0"	1
L 4 × 3 × 1/4	8'-0"	6'-0"	4'-6"	1
L 5 x 3 ½ x 5/16	10'-0"	8'-0"	6'-0"	2
L 6 x 3 ½ x 1/16	14'-0"	9'-6"	7'-0"	2
2L 5 x 3 ½ x 5/16	20'-0"	12'-0"	9'-6"	4

- 1. LONG LEG OF THE ANGLE SHALL BE PLACED IN A VERTICAL POSITION.

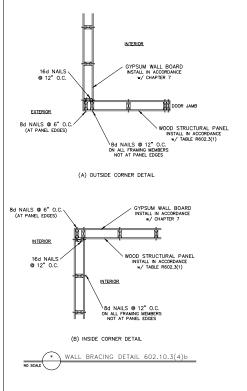
 2. DEPTH OF REINFORCED LINTELS SHALL NOT BE LESS THAN 87 AND ALL CELLS OF NOT LESS THAN 87 AND THE STALL EXTEND NOT LESS THAN 87 INTO THE SUPPORT.

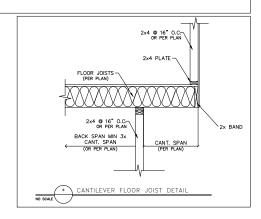
 3. STEEL MEMBERS INDICATED ARE ADDICULATE TYPICAL EXAMPLES, OTHER STEEL MEMBERS METHING STRUCTURAL DESIGN REQUIREMENTS SHALL BE PERMITTED TO BE USED.

 4. ETHER STEEL ANGEL OR REINFORCED LINTEL SHALL SHAN DEPTHING OF STALL SHALL SHAN DEPTHING STALL SHALL SHAN DEPTHING SHAND SHAN DEPTHING SHAND SH

- * MASONRY VENEER SUPPORT FIG 703.8.3.1

HARDWARE CROSS-REFERENCE CHART				
SIMPSON STRONG-TIE	USP STRUCTURAL CONNECTORS			
PRODUCT NUMBER	PRODUCT NUMBER			
A35	MPA1			
ABE	PAE			
CBSQ	CBSQ			
CCQ	KCCQ			
CMSTC16	CMSTC16			
CS	RS			
H1	RT15			
H2.5A	RT7A			
H10	RT16			
HDQ8-SDS3	UPHD8			
HDU2-SDS2.5	PHD2			
HDU5-SDS2.5	PHD5			
HETA	HTA			
HGAM10KTA	HGAM			
HHDQ14-SDS2.5	UPHD14			
HTS	HTW			
HTT	нтт			
HUS	HUS			
LTA1	LPTA			
LTHJA26	HJC26			
LTP4	MP4F			
LUS	JUS			
MAS	FA3			
MSTAM	MSTAM			
PC	PCM			
PHD-SDS3	PHD			
SSP	RSPT6			
STC	TR1			
STHD	STAD			





* Engineers seal does not include construction means, methods, techniques, sequences, * Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering Failure to do so will void Tyndall Engineering & Design, P.A. lability.

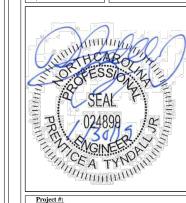
*Please review these documents carefully.

*Iyndall Engineering & Design, P.A. will interpret that all dimensions, recommendation etc. presented in these documents were deemed acceptable once construction begins.



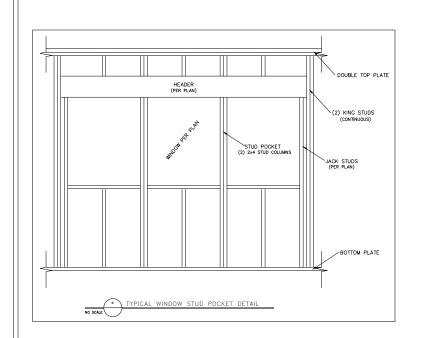


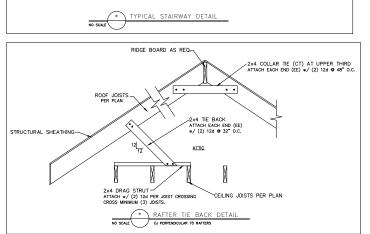
THE NICKLAUS II Garage Right

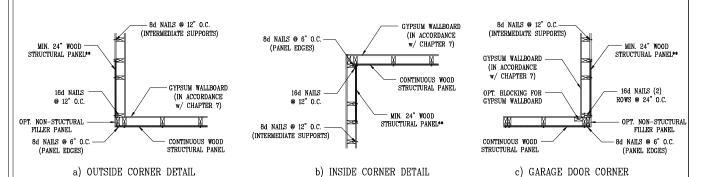


Project #: 1901-010039	_
Date: 1/18/19	_
Drawn/Design By: ACS	_
DWG. Checked By: PAT	_
Scale:	_
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	REVISIONS						
No.	Date:	Remarks					
Δ							
2							
<u>3</u>							
<u> </u>							







** IN LIEU OF THE 24" (MIN.) CORNER RETURN. A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.

TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING

STRUCTURAL SHEATHING NOTES

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- 2) WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC.
- 3) BRACING FIRE 2010 NOTE.

 3) BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- (1) REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL
 BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR
 WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO
- (2) 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF B'-0" (SGLATED PANELS) OR 4"-0" (CONTINUOUS SHEATHING). SECURE V 50 COOLER MAILS (OR EQUIA PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUMNO TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORT
- (3) 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- 6 O.C. AT PANEL EDGES AND TO CO.

 AT INTERMEDIATE SUPPORTS

 5) EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION REGO. 10.3 (UNO)

 6) ALL SHEATHABLE SUPPORTS OF EXTERNOR WALLS

 ALL SHEATHABLE SUPPORTS OF EXTERNOR WALLS

 CABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHAB WITH MOST STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM BO COMMON NAILS SPACED AT 6"

 O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS.

 7) MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS:

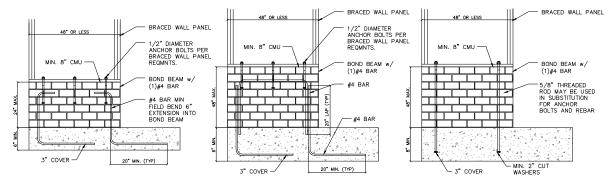
 24" ADJACENT TO OPENINGS NOT MORE THAN 67% AND LESS THAN 85% OF WALL HEIGHT.

 48" FOR OPENINGS GREATER THAN 67% OF WALL HEIGHT.

 48" FOR OPENINGS GREATER THAN 65% OF WALL HEIGHT.
- 4 SHEATH INTERIOR & EXTERIOR
- (5) MINIMUM 800# HOLD-DOWN DEVICE

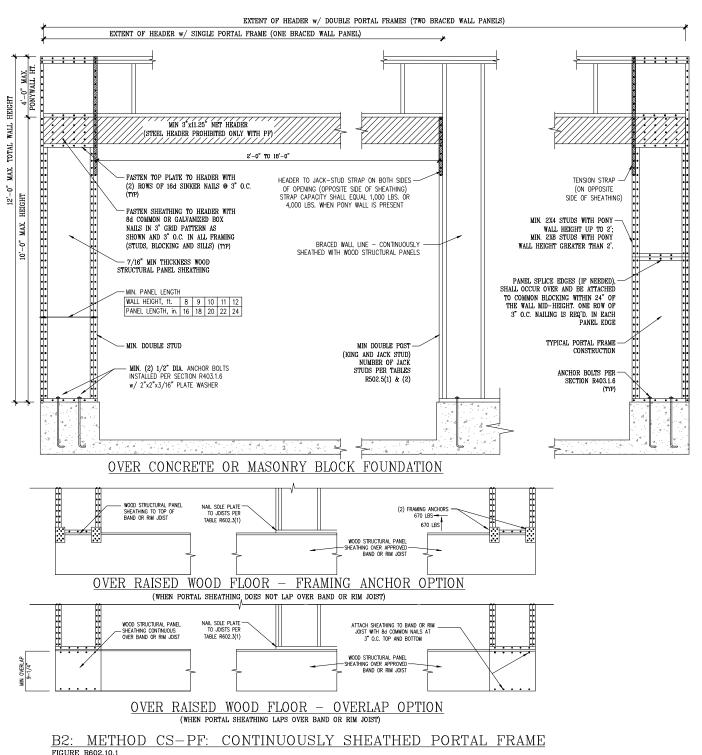
REQUIRED BRACED WALL PANEL CONNECTIONS								
	REQUIRED CONNECTION							
METHOD	MATERIAL	MIN. THICKNESS	@ PANEL EDGES	@ INTERMEDIATE SUPPORTS				
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS ⊚ 6" O.C.	6d COMMON NAILS @ 12" O.C.				
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL** ⊚ 7" O.C.	5d COOLER NAIL** @ 7" O.C.				
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS ⊚ 6" O.C.	6d COMMON NAILS @ 12" O.C.				

**OR EQUIVALENT PER TABLE R702.3.5 B3: BRACE WALL PANEL CONNECTIONS



B4: MASONRY STEM WALL SUPPORTING BRACED WALL PANELS

FIGURE R602.10.4.3 OF THE 2018 NCRC NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS



* Engineers seal does not include construction

plans are to be brought to the imm attention of Tyndal Engineering & Design, P.A. Failure to do so will void Tyndall Engineering

Failure to do so will void Tyndal Engineeri & Design, P.A. faibility.

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*Yphadal Engineering & Design, P.A. will interpret that all dimensions, recommendate etc. presented in these documents were deemed acceptable once construction begins.

TYNDALL ENGINEERING & DESIGN, P.A.

OSA TYNORUM

Project #: 1901-010039

Drawn/Design By ACS

DWG. Checked By: PAT

NOT TO SCALE

Date: 1/18/19