	LIVE LOAD	DEAD LOAD
TABLE R301.4	(PSF)	(PSF)
DWELLING UNITS	40	10
SLEEPING ROOMS	30	10
ATTICS WITH STORAGE	20	10
ATTICS WITHOUT STORAGE	10	10
ROOF SNOW	20	10
STAIRS	40	10
DECKS	40	10
EXTERIOR BALCONIES	60	10
PASSENGER VEHICLE GARAGES	50	-
FIRE ESCAPES	40	10
GUARDRAILS AND HANDRAILS	200	-

MATERIALS

1. FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 1050 PSI Fv = 35 PSI E = 1.666 PSI

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES: Eb = 2900 PSI Ev = 285 PSI E = 1.9E6 PSI

4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 MINIMUM GRADE.

5. BOLTS SHALL CONFORM TO A307 MINIMUM GRADE.

6. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.

7. POLIRED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSLAT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157

8. CONCRETE LOCATED PER TABLE R402.2 SHALL BE AIR ENTRAINED WITH THE TOTAL AIR CONTENT NOT LESS THAN 5 PERCENT OR MORE THAN 7 PERCNET.

9. MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.

10 ALLOWARI E SOIL BEARING PRESSURE 2000 PSE

GENERAL

ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR ANY DEVIATION FROM THE PLANS.

ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE CAROLINA STATE BUILDING CODE - RESIDENTIAL CODE 2012 EDITION (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER VIETO FORMATION OF A RESIDENTIAL CODE 2012 INTERNATIONAL RESIDENTIAL CODE 2012 (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER VIETO FORMATION OF A RESIDENTIAL CODE 2012 INTERNATIONAL RESIDENTIAL RESIDENTIAL RESIDENTIAL RESIDENTIAL RESIDENTIAL RESIDENTI DIMENSIONS

ADDITIONAL LOADS

FIGURE R301.2(4) - BASIC DESIGN WIND SPEED 100 MPH

FIGURE R301.2(2) - SEISMIC DESIGN CATEGORY B

TABLE R301.2(4) - DESIGN POSITIVE AND NEGATIVE PRESSURE FOR DOORS AND WINDOW FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF

TABLE R301.2(2) - COMPONENT AND CLADDING LOADS FOR A MEAN ROOF HEIGHT OF 30 FEET OR LESS LOCATED IN

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PITCHES AS FOLLOWS: 45 4 PSF FOR 0:12 TO 2:25:12, 34.8 PSF FOR 2:25:12 TO 7:12 AND 21 PSF FOR 7:12 TO 12:12 WALL CLADDING IS DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

ENERGY COMPLIANCE:

TABLE N1102.1 - REFER TO TABLE N1101.1 TO DETERMINE THE CLIMATE ZONE BY COUNTY AND REFER TO TABLE N1102.1 FOR R VALUE INSULATION REQUIREMENTS LISTED BY ZONE.

TABLE N1102.1 - ZONE 7 - MAX. GLAZING U FACTOR: <u>0.40</u>. MIN. INSULATION R VALUES: CEILING <u>R-30</u>, WALLS <u>R-13</u>, FLOORS <u>R-19</u>, BASEMENT WALLS <u>R-7</u>, SLAB PERIMETER <u>R-0</u>, CRAWL SPACE WALLS <u>R-7</u>.

 $\begin{array}{l} \underline{\textbf{TABLE N1102.1-ZONE 8}} & \text{-Max. Glazing u factor: 0, } \underline{\textbf{40}} & \text{Min. insulation R values: ceiling } \underline{\textbf{R-30}} & \text{walls } \underline{\textbf{R-13}} \\ \hline \textbf{FLOORS } \underline{\textbf{R-19}} & \text{BASEMENT WALLS } \underline{\textbf{R-8}} & \text{SLAB PERIMETER } \underline{\textbf{R-6}} & \text{TFLDEEP} \\ \hline \textbf{CRAWL SPACE WALLS } \underline{\textbf{R-10}} & \text{TFLDEEP} \\ \hline \textbf{R-10} & \text{TFLDEEP} & \text{TFLDEEP} & \text{TFLDEEP} \\ \hline \textbf{R-10} & \text{TFLDEEP} & \text{TFLDEEP} & \text{TFLDEEP} \\ \hline \textbf{R-10} & \text{TFLDEEP} & \text{TFLDEEP} & \text{TFLD$

CONSTRUCTION

1. STEEL FLITCH BEAMS SHALL BE FASTENED TOGETHER WITH 12° DIAMETER BOLTS WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS SHALL BE SPACED AT MAXIMUM 24° o.c. STAGGERED TOP AND BOTTOM OF BEAM WITH A MINIMUM 2° EDGE DISTANCE. TWO BOLTS SHALL BE LOCATED AT 6° FROM EACH END OF FLITCH BEAM.

2. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS

3. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

4. ALL BEAMS SHALL BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF THREE STUDS.

5. SOLID BLOCKING SHALL BE PROVIDED AT ALL POINT LOADS TO TRANSFER LOADS THROUGH FLOOR LEVELS, COLUMNS SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL FLEMENTS.

6. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL

8. BRICK LINTELS SHALL BE 3 1/2 x 3 1/2 x 1/4 STEEL ANGLE FOR UP TO 6'0" MAXIMUM SPAN AND 6 x 4 x 5/16 FOR SPANS GREATER THAN 6'

9. BRICK LINTELS AT SLOPED AREAS SHALL BE 4 x 3 1/2 x 1/4 STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" o.c. TO DOUBLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24" o.c. ALONG THE STEEL ANGLE.

Lot 63 Prince Place

SQUARE FOOTAGE					
	HEATED S.F.	UNHEATED S.F.			
FIRST FLOOR	1952				
SECOND FLOOR	847				
SCREENED PORCH		191			
FRONT PORCH		132			
GARAGE		718			
TOTAL	2799	1041			

REVISION LOG						
Rev	Description	Drawn By	Date	Sheets Affected	Brochure Required	Engineering Required
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

|--|--|--|--|--|

TABLE N1102.1 CLIMATE ZONES 3-5

CONCRETE

DOUBLE DOUBLE DOUBLE JOIST DOUBLE STUD POCKET EACH FLAT PLATE

FOOTING

HANGER I AMINATED VENEER I UMBER

NOT TO SCALE ON CENTER PARALLEL STRAND LUMBER PRESSURE TREATED

STUD COLUMN STUD POCKET

TRIPLE JOIST

UNLESS NOTED OTHERWISE

TYPICAL

CONTINUOUS

CONC

CONT DBL DJ DSP EA FLPT FTG HGR LVL NTS OC PSL PT SC SP TJ TYP

UNO

CLIMATE Zones	FENESTRATION U-FACTOR b	skylight ^b U-factor	GLAZED FENESTRATION SHGC b,0	ceiling ^k R-Value	WOOD FRAMED WALL R-VALUE	MASS Wall R-Value i	Floor R-Value	BASEMENT ^C Wall R-Value	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE Wall R-Value
3	0.35	0.65	0.30	30	13	5/10	19	10/13 ¹	0	5/13
4	0.35	0.60	0.30	38 OR 30 CONT j	15 OR 13+2.5 ^h	5/10	19	10/13	10 ^d	10/13
5	0.35	0.60	NR	38 OR 30 CONT	19 OR 13+5 OR 15+38,h	13/17	30 9	10/13	10 ^d	10/13

b. THE FENESTRATION U-FACTOR COLUMN EXCLUDED SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION.

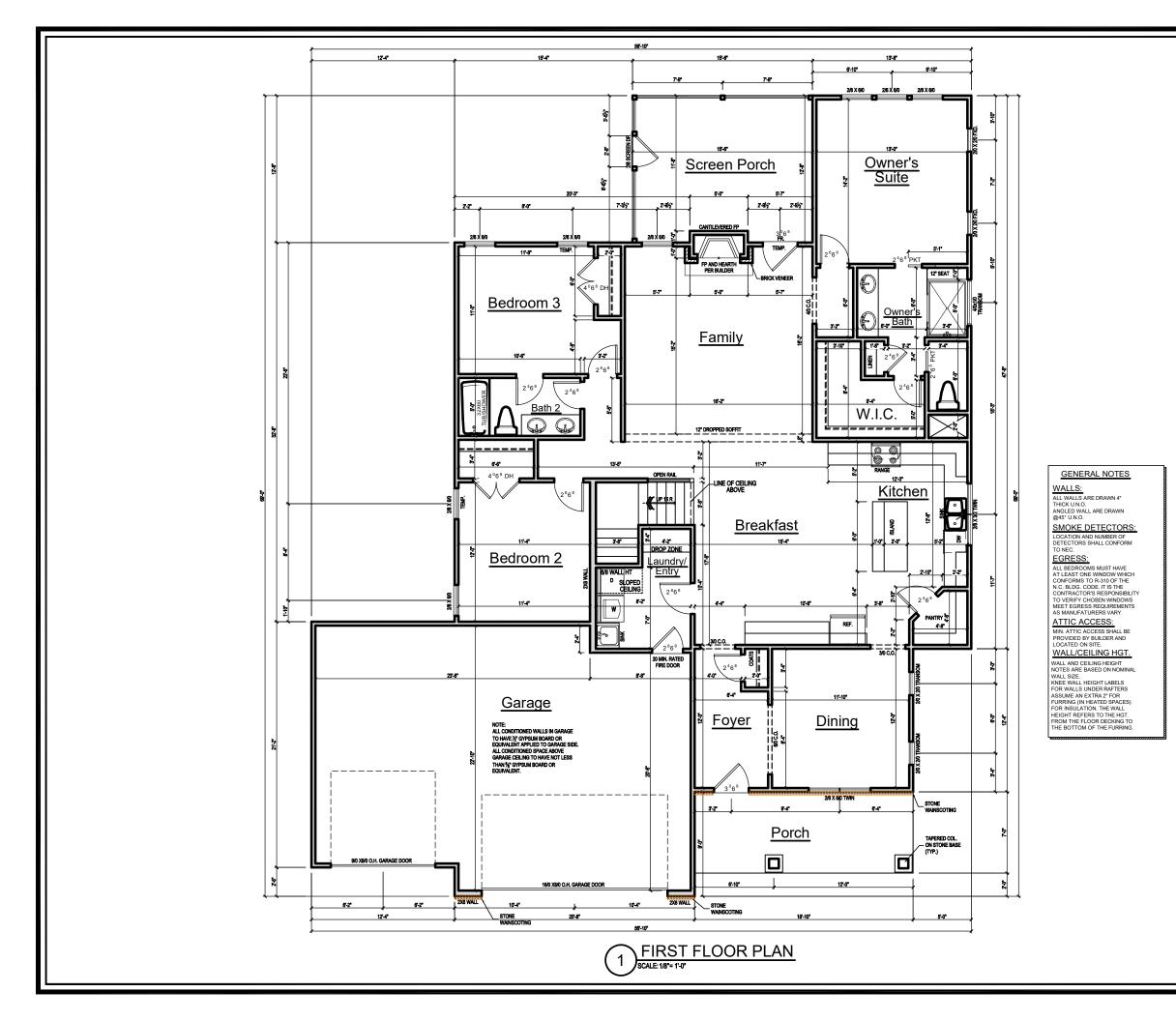
2. "10/13" MEANS R-10 CONT. INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR

B. THE TREBUNKTION OF ALL TO COLUME AND ALL BOYNESS AND BATTLE THE BASE OCCUPIENT FOR A DALL DUE DEFENSION TO THE INTERIOR OF THE HOLD FOR A DALL DUE DEFENSION TO THE INTERIOR OF THE HOLD FOR THE OWNER AND THE INTERIOR OF THE HOLD FOR THE

			A	TTIC '
				LOT
MAIN	HOUSE	3	SQ FTG	2731
VENT TYPE	SQ. FT. REQUIRED RANGE		SQ. FT. SUPPLIED	PERCENT OF TOTAL SUPPLIED
RIDGE VENT	3.64	4.55	4.50	48.65
SOFFIT VENTS	5.46	4.55	4.75	51.35
TOTAL (MIN)	9.10	9.10	9.25	100.00

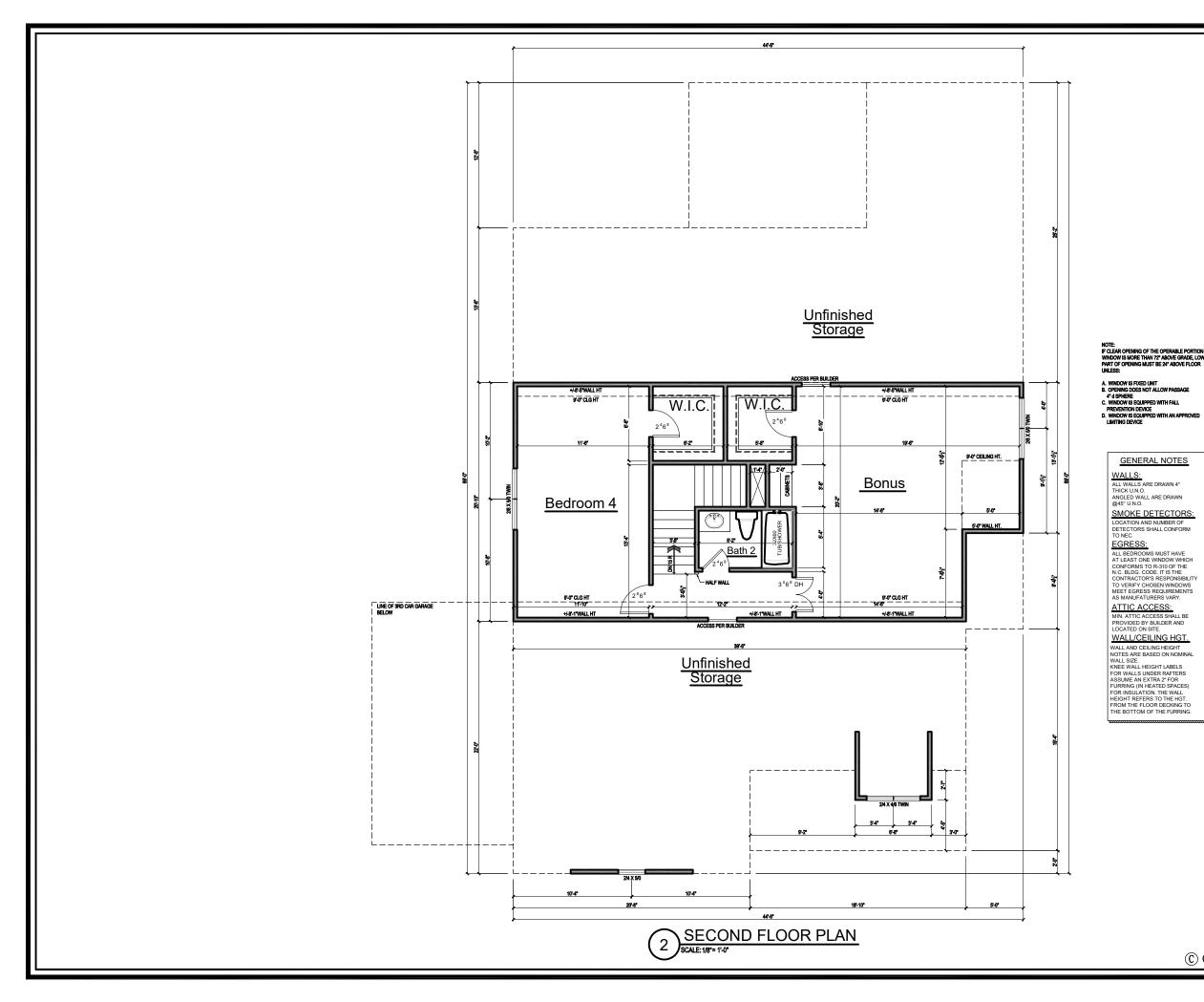
* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VEN

1 1/2 STORY = 19 CLADDING POSI ⁻ 2 STORY = 19-0" CLADDING POSI ⁻ INSTALL ANCHOI PER CODE AT AL TREATED PLATE TREATED PLATE TREATED PLATE FOUNDATIONS, J WITHIN 12" FROM DESIGN PRESSU MINIMUM RATINC MI WINDOWS 350 LOW E-GLASS W	TIVE & NEGAT TIVE & NEGAT R BOLTS, NUT L EXTERIOR (S AND AT INT S ON SLAB TO BE A MININ M THE ENDS C RES S: 25 PSF 30 SERIES	IVE PRESSUF S, AND WASH VALL ERIOR BEARII IUM OF 6' O.C	RE = 34.8 PSF ERS NG WALL . AND		South Designs, Inc. assumes no likelikity for any home constructed from prior to construction. Contion not have drawings. If change are made to these drawings, contact South Designs, Inc.	
D POT LARGE (SQ. FT. EACH) 0.4236	PLACE / NEAR RIDO POT SMALL (SG. FT.EACH) 0.2778	GE RIDGE VENT (50. FT. PER LP) 0.125	AT / NEA EAVE VENT 190. IN L MOR 0.1944	AR EAVE CONT. VENT go. INL FREUT 0.0625	Title COVER SHEET Plan No.	
	POT SMALL ISQ. FI. EACH 0.2778 0	RIDGE VENT (5Q. FT. PER LF) 0.125 36.00	EAVE VENT ISQ. IN. EACH 0.1944 0	CONT. VENT (SQ. IN. PERLF)	SHEET	
TILATION AT 50-60%	OF TOTAL AND RI	DGE AT 40-50% O	F TOTAL REQUIR	ED VENTILATION	Sheet No. CS	



FO BOSTO CONTRACTOR OF CONTRAC
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Checked By: RWB
06-20-2022
Revision No. Revision Date
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^{™⊭} FIRST FLOOR PLAN
Plan No.

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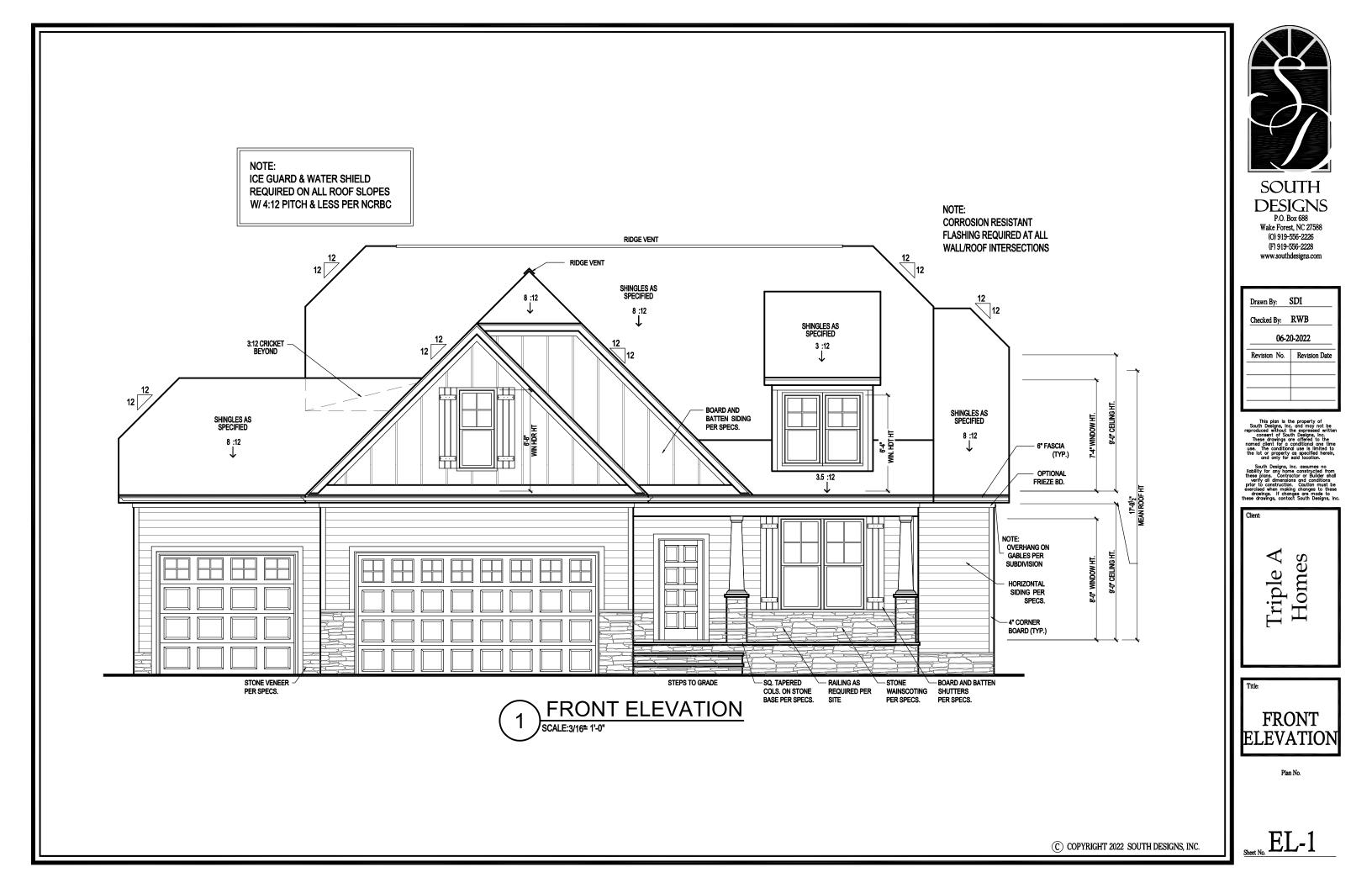
NOTE: IF CLEAR OPENING OF THE OPERABLE PORTION OF A WINDOW IS MORE THAN 72" ABOVE GRADE, LOWEST PART OF OPENING MUST BE 24" ABOVE FLOOR UNLESS:

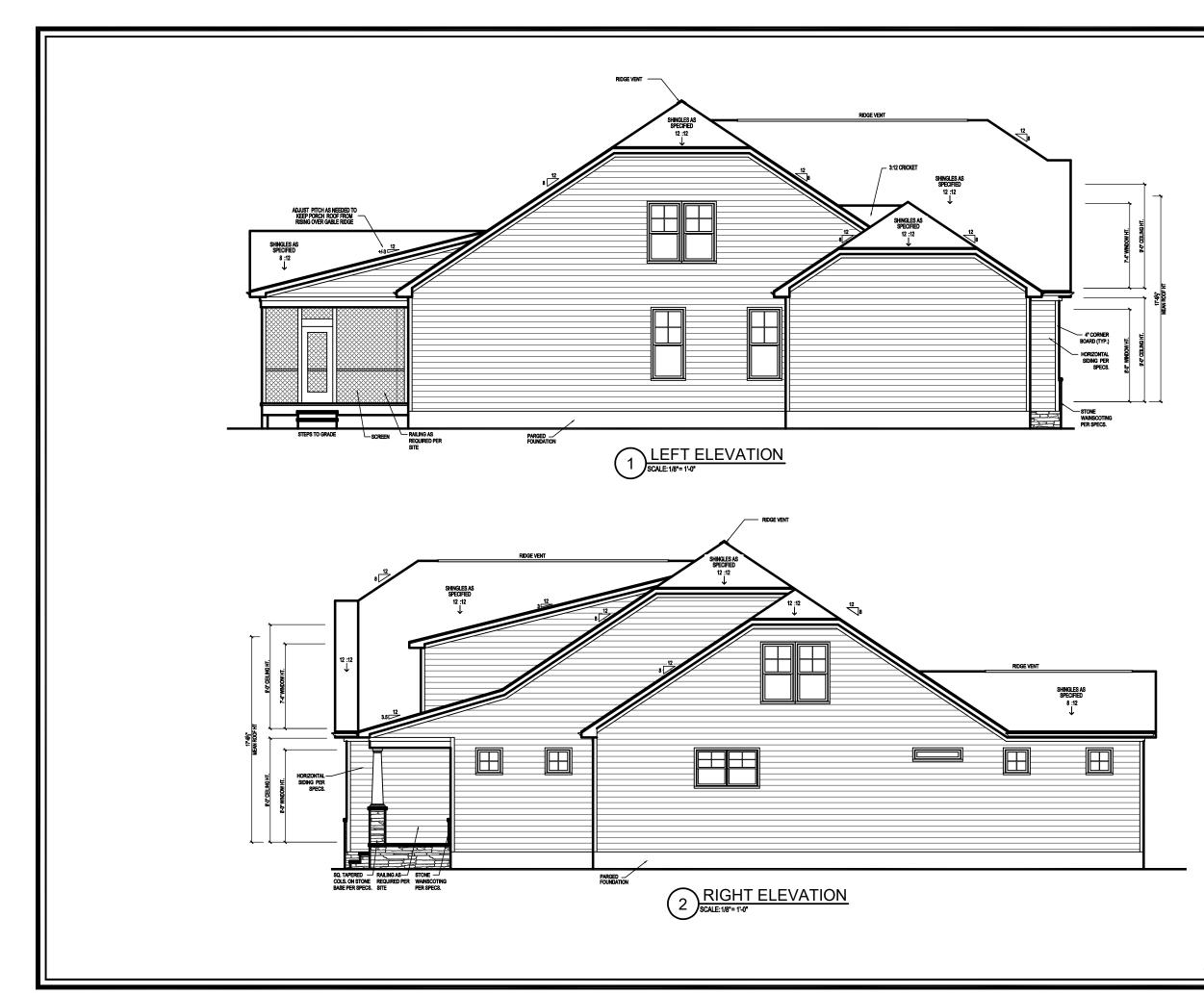
GENERAL NOTES

WALLS: ALL WALLS ARE DRAWN 4" THICK U.N.O. ANGLED WALL ARE DRAWN @45° U.N.O.

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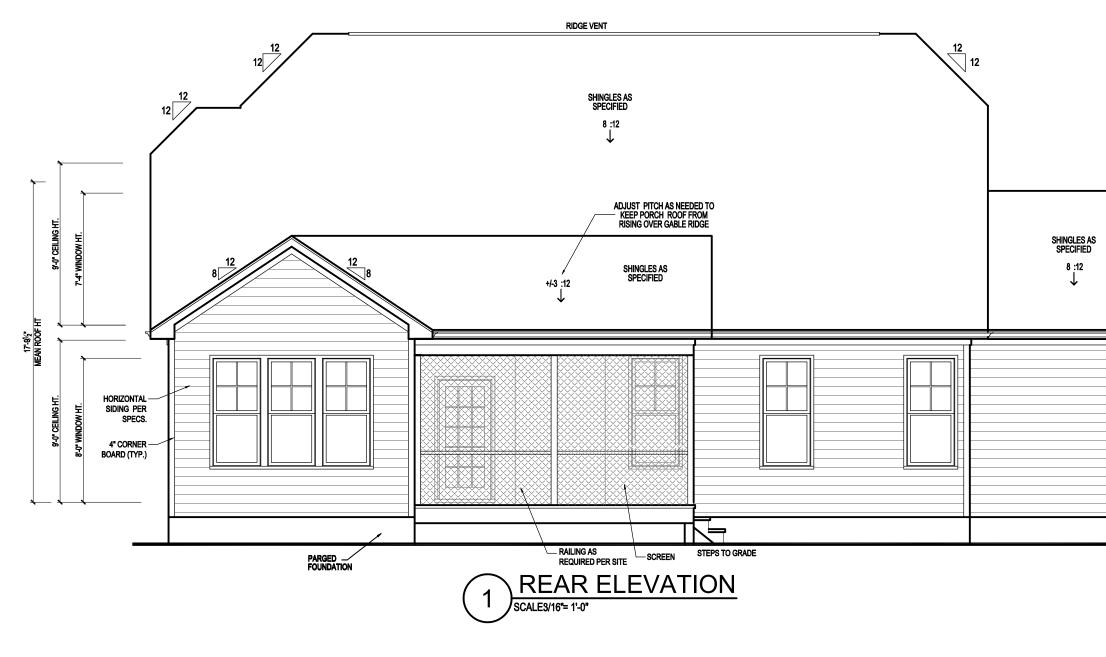
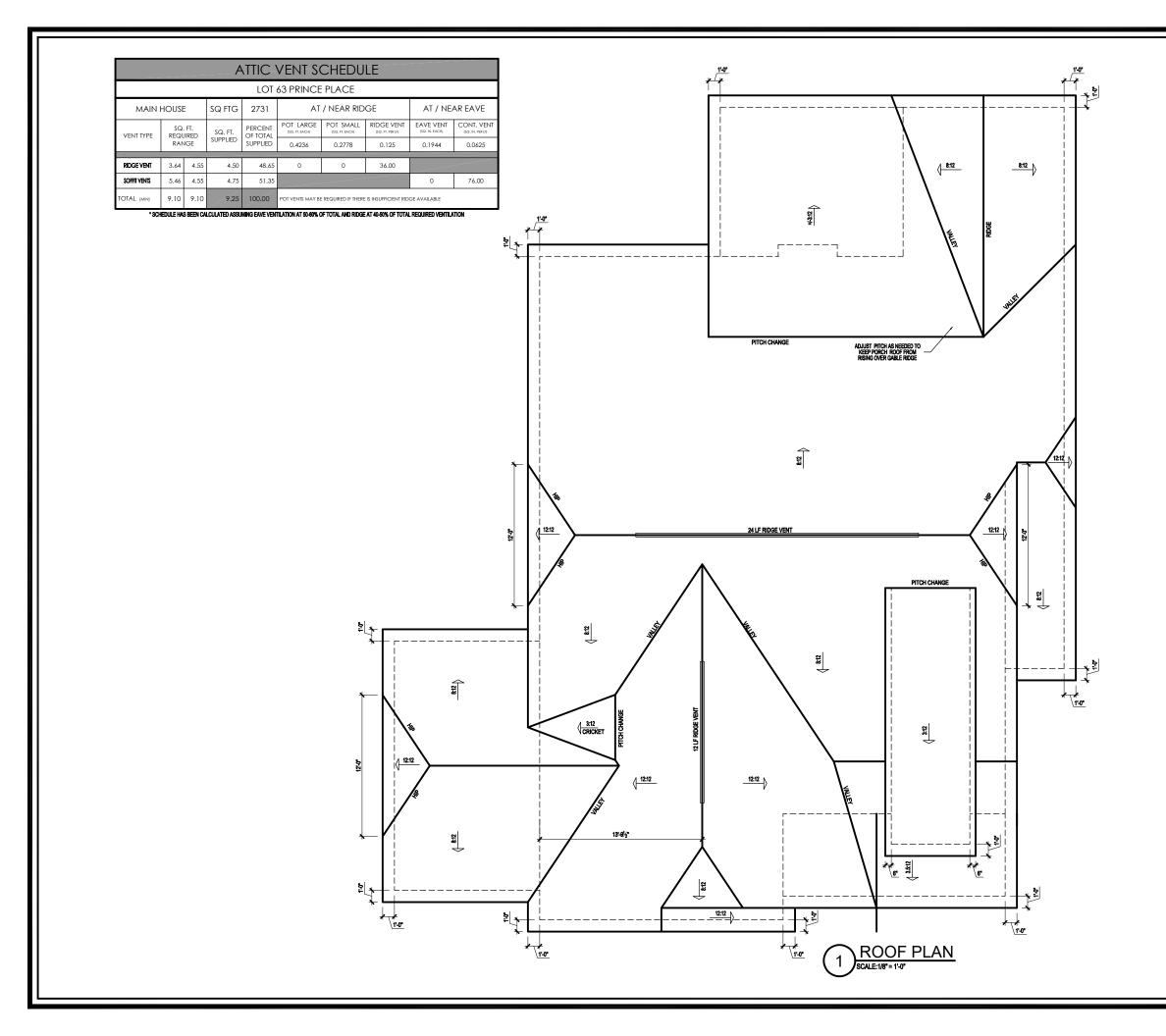
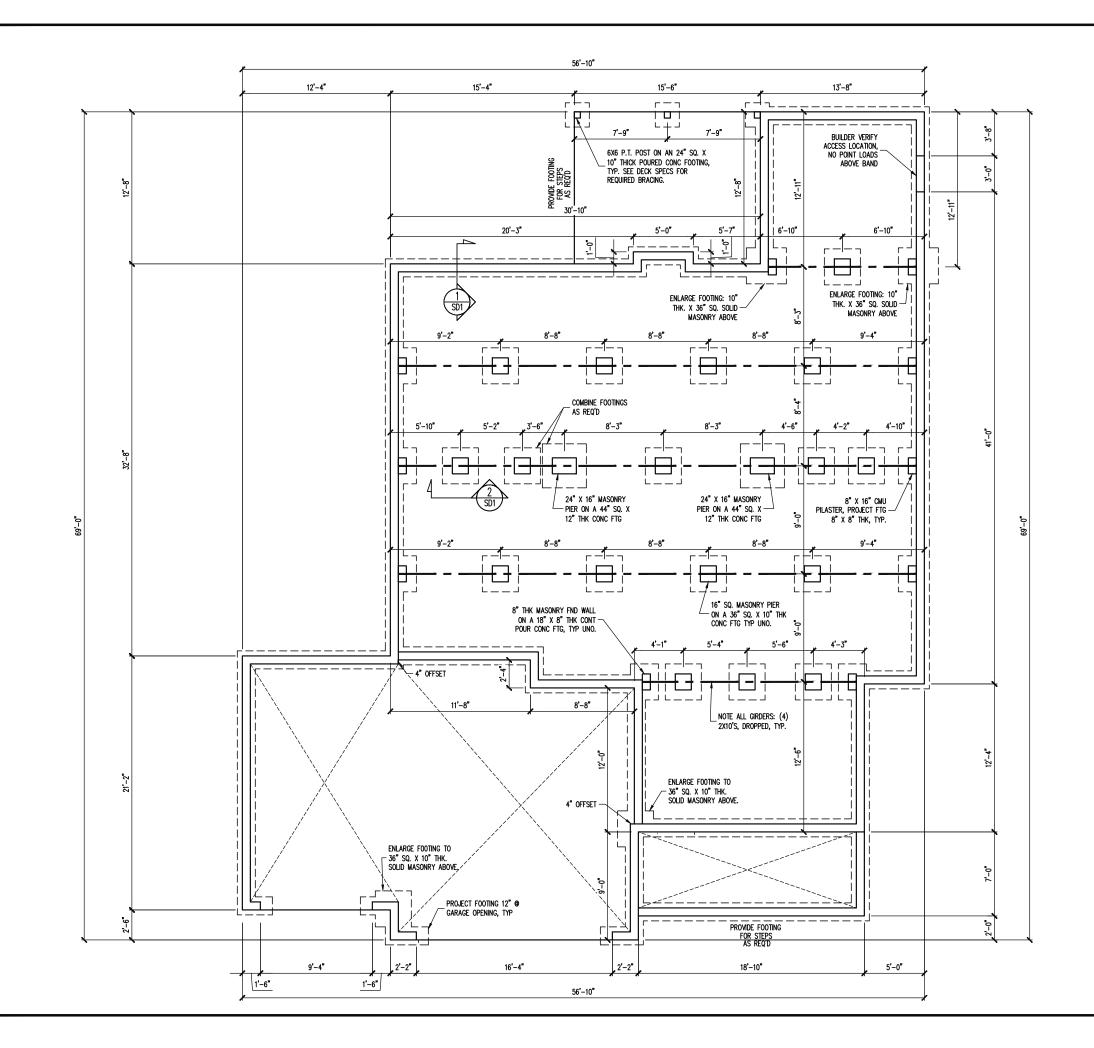


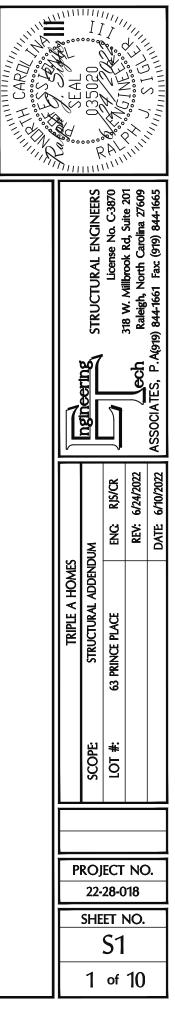
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12 12 6" FASCIA (TYP.) OPTIONAL FRIEZE BD.	Drawn By: SDI Checked By: RWB 06-20-2022 Revision No. Revision Date Revision No. Revision Date Berord Control Contrecont Contence Control Control Contence Control Contre
	Triple A Homes
	THE REAR ELEVATION
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Triple A Homes
Title:
ROOF PLAN
Plan No.
Sheet No. EL-4

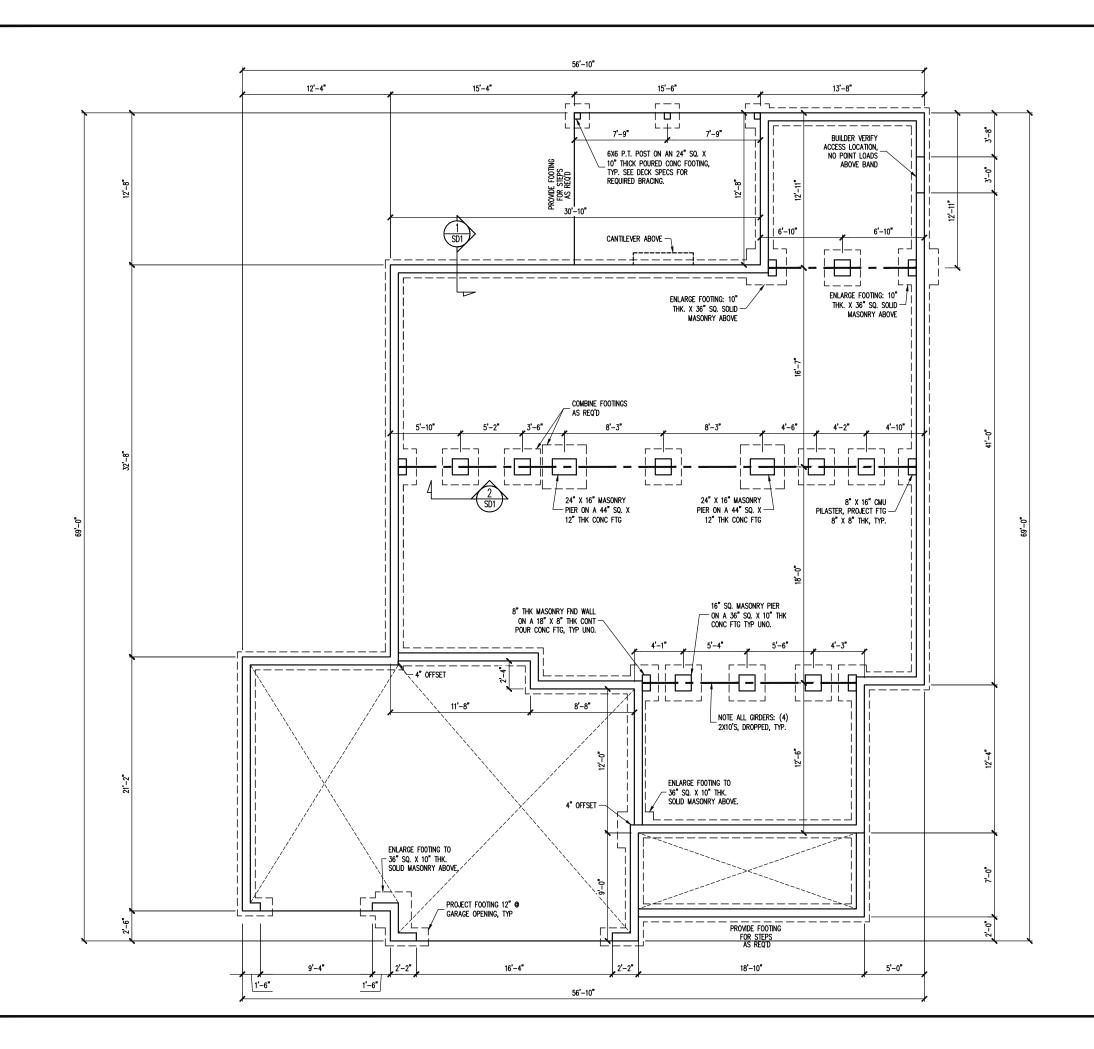
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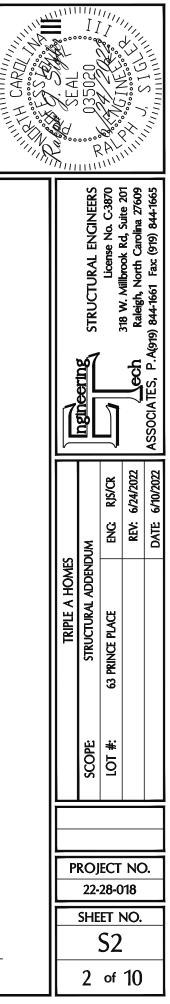




NOTES: -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITON, REINFORCEMENT AND GROUTING SHALL BE DETERMINED BY FINAL SITE CONDITIONS. -BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DD NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

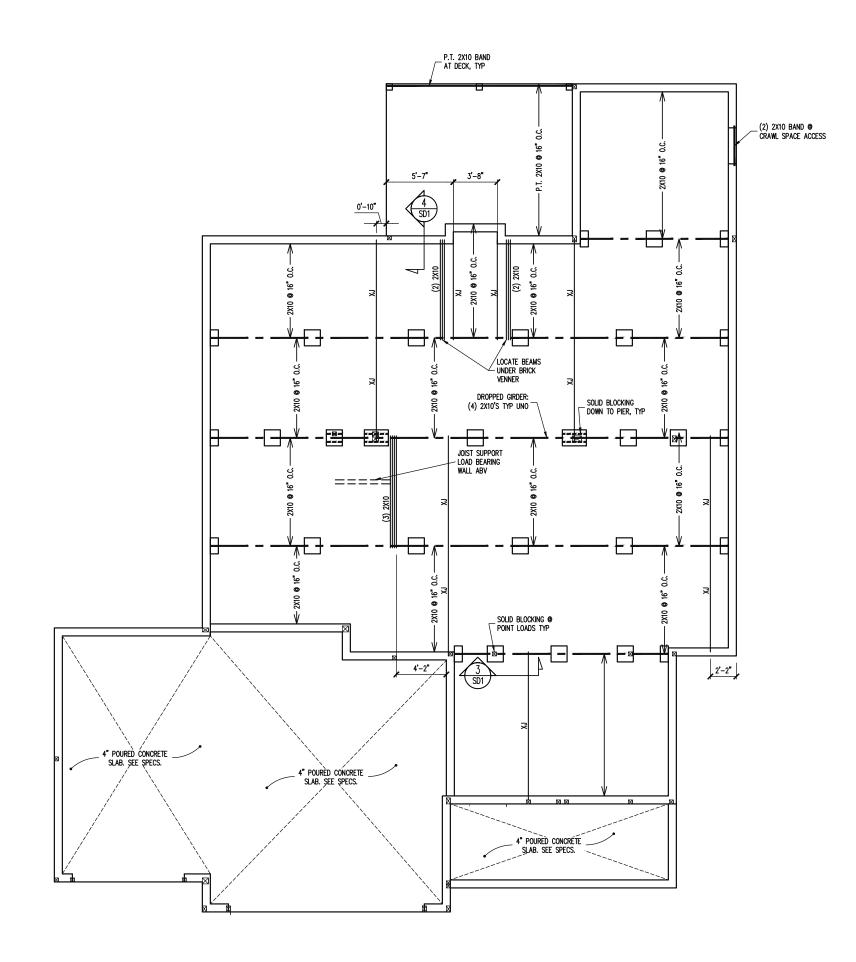
2X10 OPTION FOUNDATION PLAN 1/8" = 1'=0"

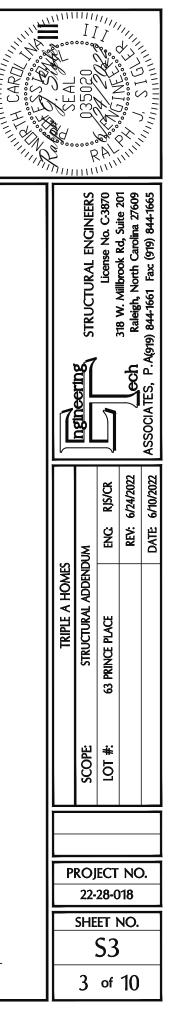




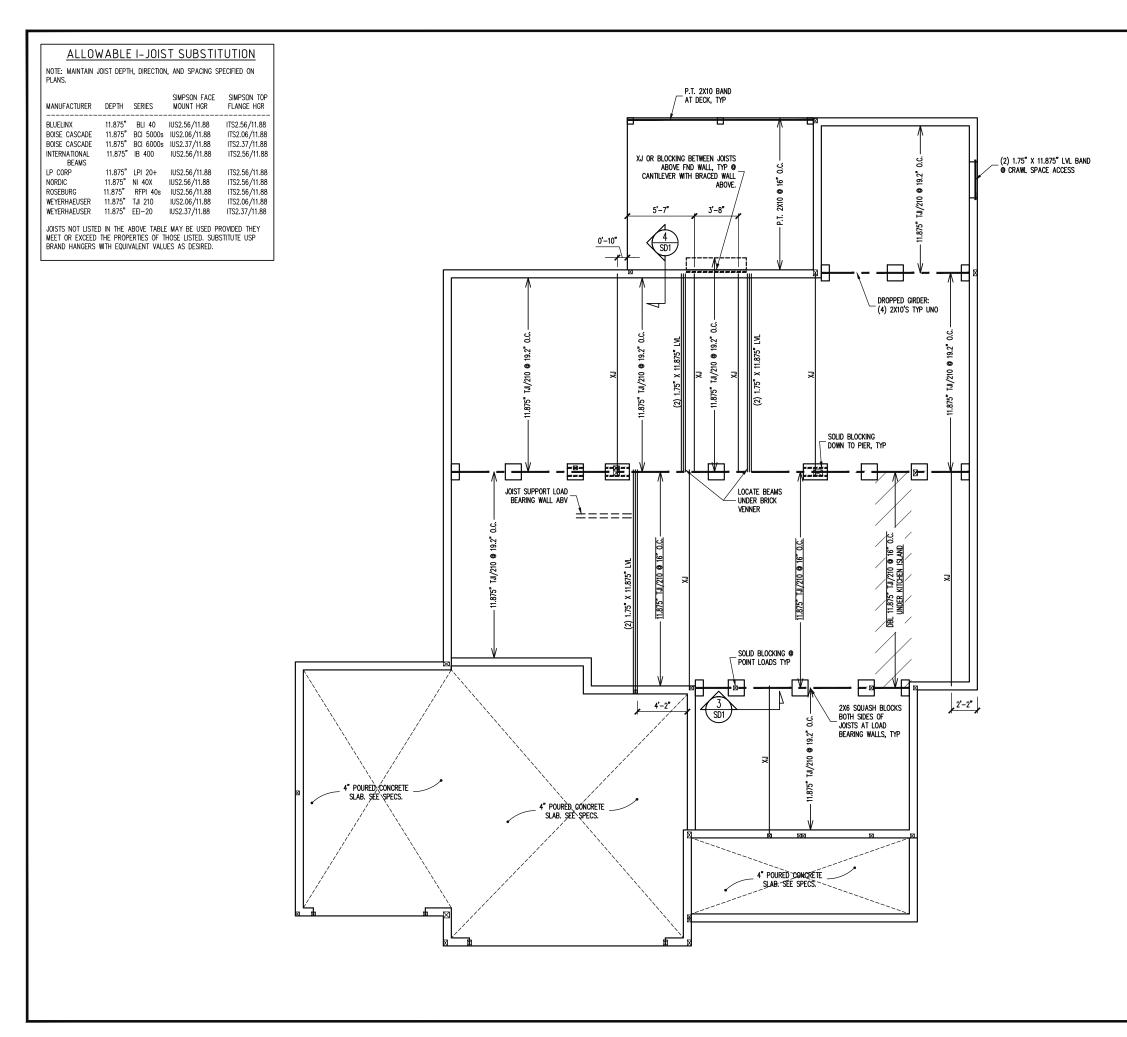
NOTES: -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION. REINFORCEMENT AND GROUTING SHALL BE DETERMINED BY FINAL SITE CONDITIONS. -BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DO NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

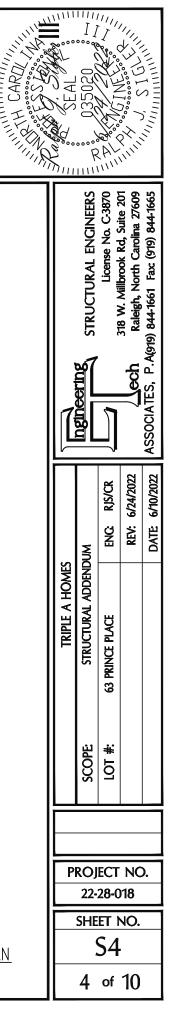
I-JOIST OPTION FOUNDATION PLAN



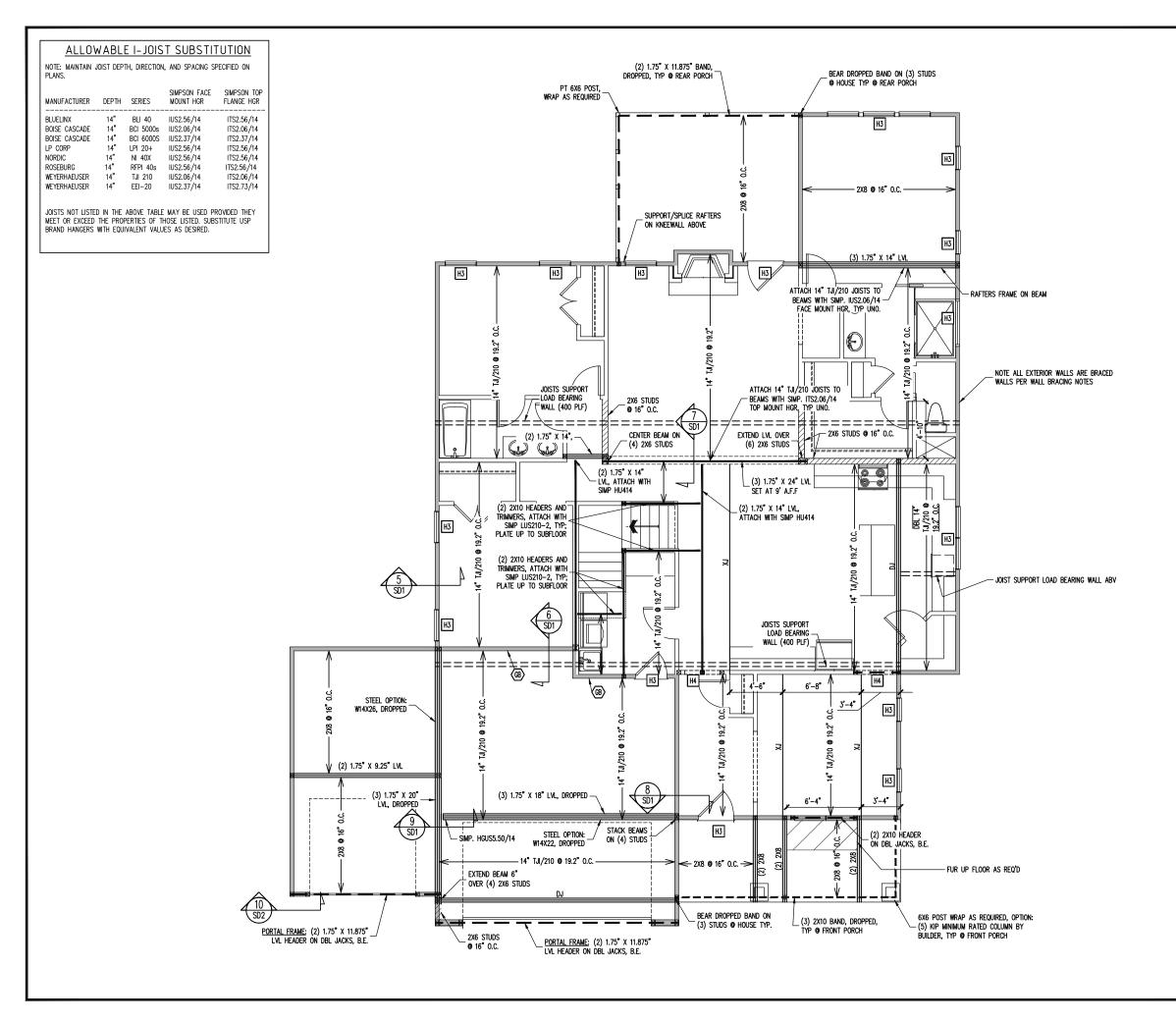


2X10 CRAWL SPACE FRAMING PLAN 1/8" = 1'-0"



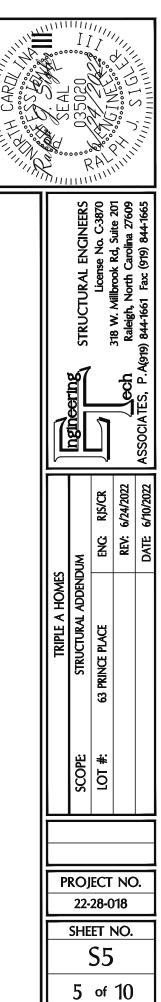


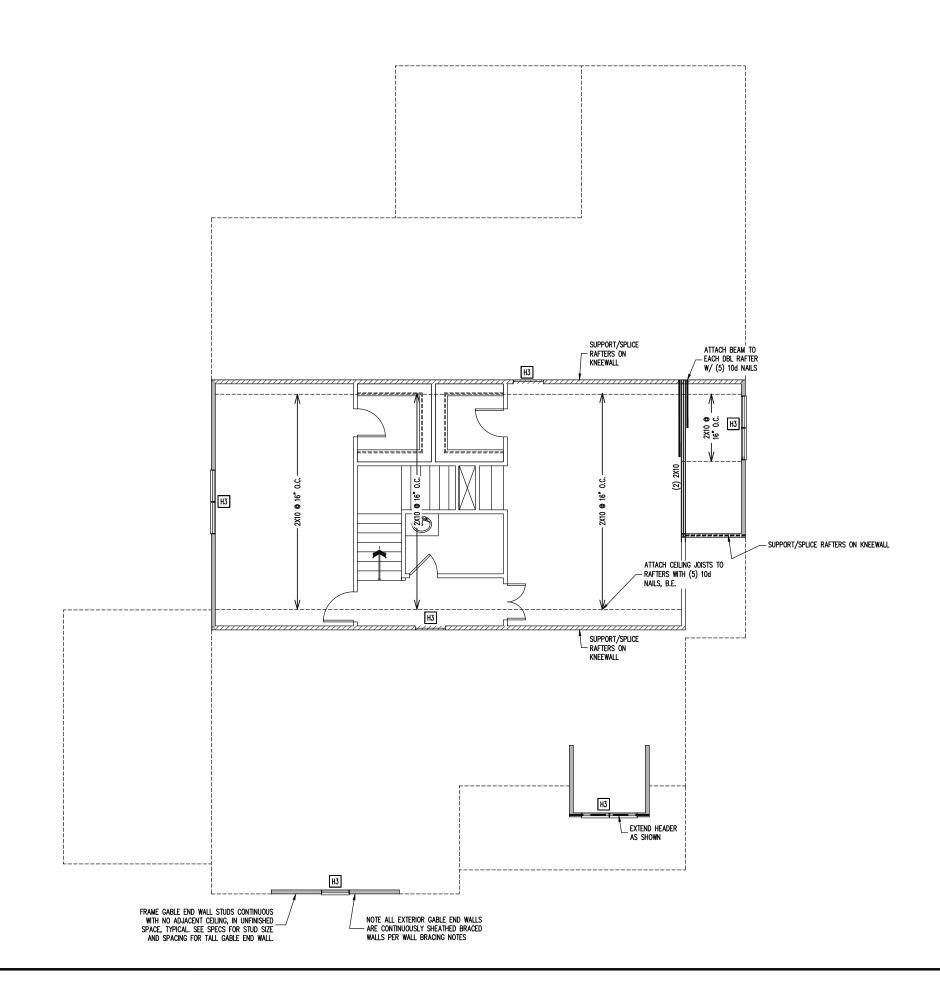
I-JOIST CRAWL SPACE FRAMING PLAN

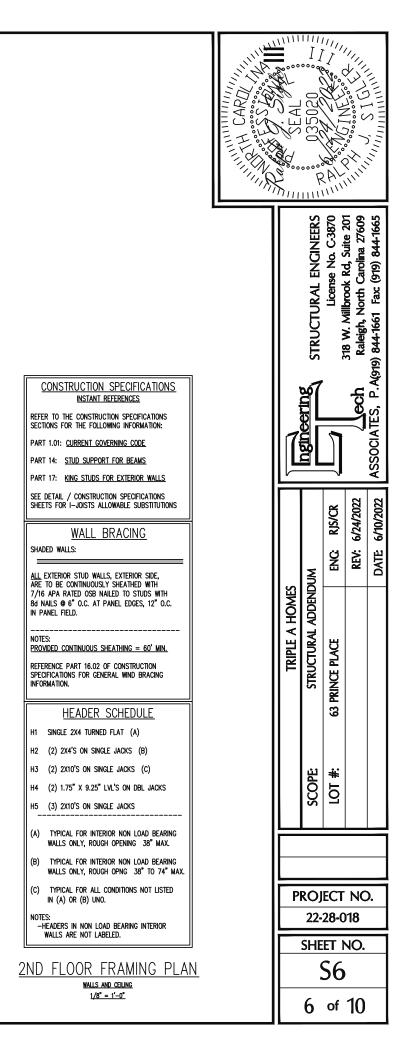


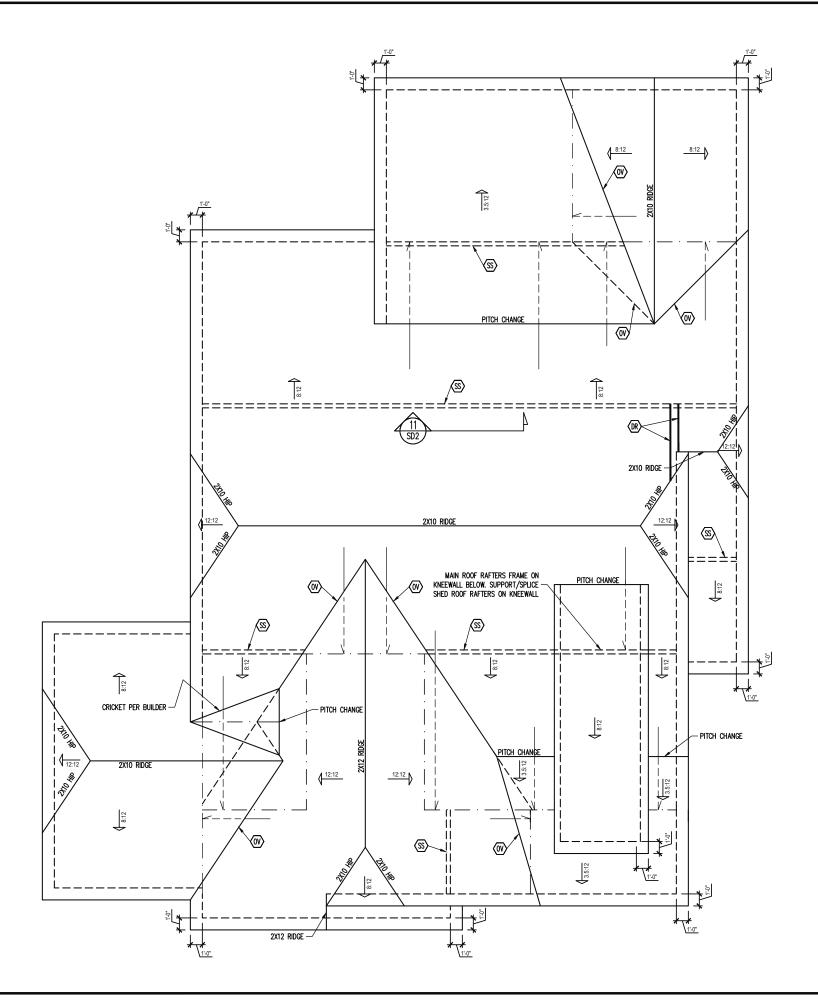
TRUSS SUBSTITUTION 14" I-JOISTS PERMITTED TO BE SUBSTITUTED WITH 14" FLOOR TRUSSES. MAINTAIN MINIMUM SPACING AS CALLED OUT ON PLANS. CONNECTIONS PER TRUSS MANU. CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION: PART 1.01: CURRENT GOVERNING CODE PART 14: STUD SUPPORT FOR BEAMS PART 17: KING STUDS FOR EXTERIOR WALLS SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS WALL BRACING SHADED WALLS: ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD. WSP - ONE SIDE OF INTERIOR WALL OR INSIDE OF EXTERIOR WALL WITH 3/8" MIN. THICKNESS WOOD STRUCTURAL PANELING, ATTACH WSP TO STUD WALL WITH 8d NAILS @ 4" O.C. AT PANEL EDGES, 8" O.C. IN PANEL FIELD. GB - INTERIOR BRACED WALL. 1/2" GB SECURED PER TABLE R602.10.2 OF THE 2018 NCRBC. (FASTENERS @ 7" O.C.) BOTH SIDES OF WALL. OR (FASTENERS @ 4" O.C.) ONE SIDE OF WALL AT STAIRS 2x – Sheath Both Sides of Stud Wall with 🔏 APA RATED OSB, NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD. NOTES PROVIDED CONTINUOUS SHEATHING = 256' MIN. REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION. HEADER SCHEDULE H1 SINGLE 2X4 TURNED FLAT (A) H2 (2) 2X4'S ON SINGLE JACKS (B) H3 (2) 2X10'S ON SINGLE JACKS (C) H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS H5 (3) 2X10'S ON SINGLE JACKS (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY. ROUGH OPENING 38" MAX. (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX. (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO. NOTES -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED. 1ST FLOOR FRAMING PLAN WALLS AND CEILING

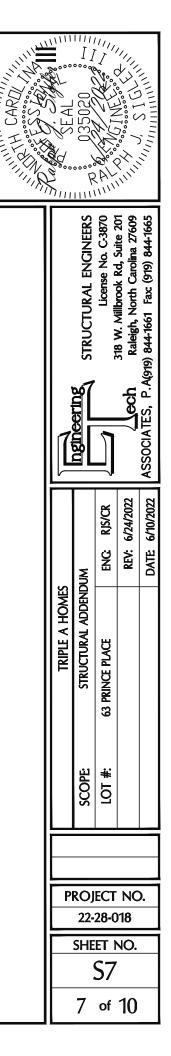
<u>1/8" = 1'-0"</u>











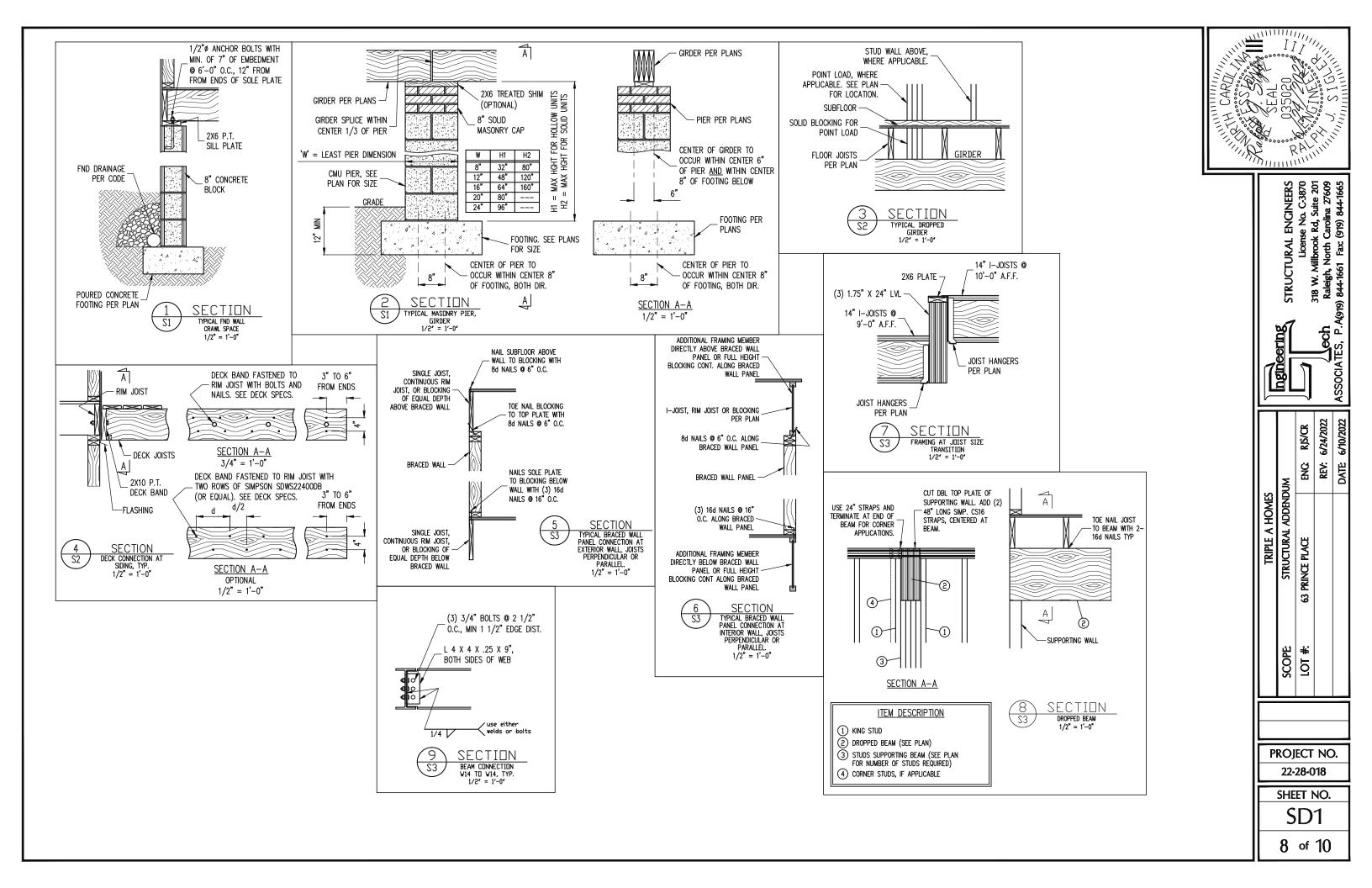
FRAMING SCHEDULE ROOF ONLY OV OVERFRAME VALLEY (2X10 SLEEPER) SK DBL 2X4 STIFF KNEE SS SUPPORT/SPLICE RAFTERS ON KNEEWALL BELOW

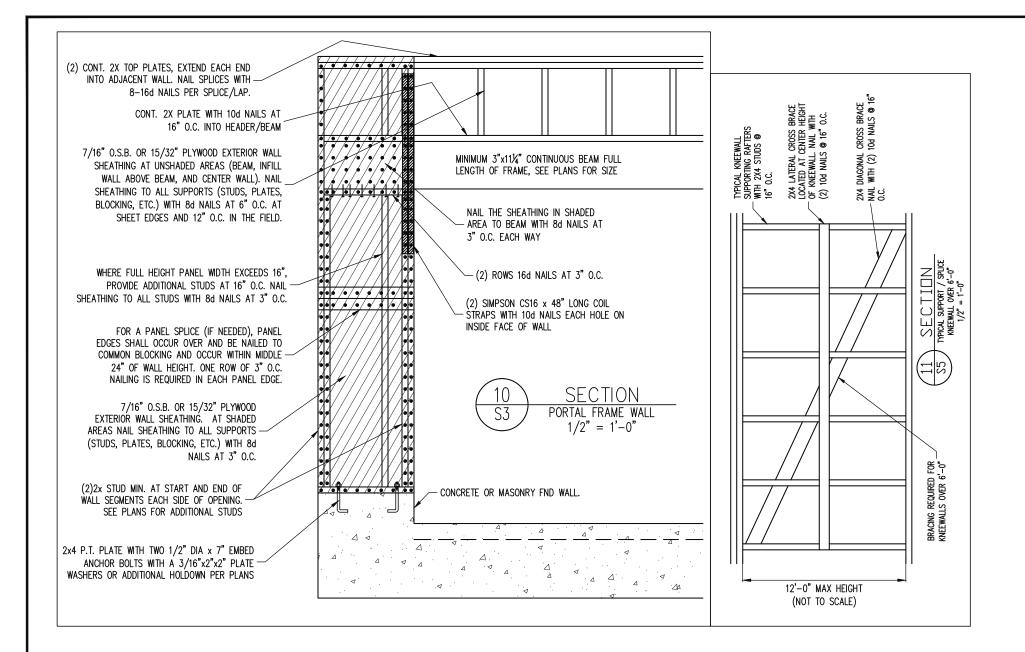
ROOF FRAMING PLAN <u>1/8" = 1'-0"</u>

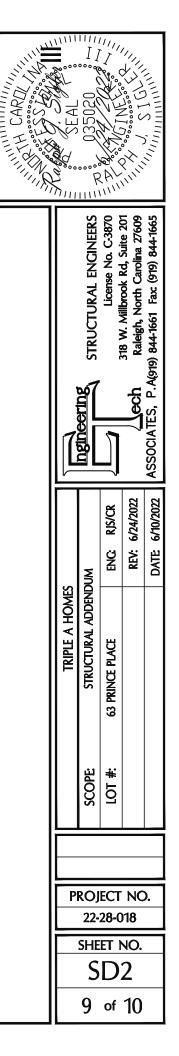
-VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS, TYPICAL.

-COMMON RAFTERS 2X8 @ 16" O.C. TYP U.N.O. -COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS TYP U.N.O.

FRAMING NOTES ROOF ONLY







	<u>CONSTRUCTION</u>	SPECIFICATIONS				DECK SPECIFICATIONS		
1.01	PART 1: GENERAL		14.03)	A STRUCTURE	I EXPOSED EXTERIOR WOOD FLOO OR BE FREE STANDING. ROOFED	
1.01	CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.	7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW 7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN	14.04	THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD. STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN			USING THESE PROVISIONS.	
	DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.	COMPRESSIVE STRENGTH OF 2000 PSI.		THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS @ 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHALL	2.		its shall be supported by a 1ed to a structure, the stru	
1.05	METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.	7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS		BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLLIMINS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED <u>FOR THE FULL WIDTH</u> OF THE STUD COLLIMIN	N .	TREATED WOO	DD BAND FOR THE LENGTH OF T ED TO PREVENT MOISTURE FROM	HE DECK, OR CORROSION RESI
	PART 2: DESIGN LOADS	FOR CONTINUOUS WALL APPLICATIONS		WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS.		CONSTRUCTED	THE STRUCTURE. THE DECK BAN) IN CONTACT WITH EACH OTHER	EXCEPT AT BRICK VENEER A
2.01	DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:	PART 8: BOLTS AND LAG SCREWS 8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD		PART 15: NAILING OF MULTI PLY WOOD BEAMS		INSTALLED BE	EATHING IS REQUIRED AND PROP ETWEEN THE STRUCTURE AND TH	E DECK BAND. IF ATTACHED T
	USE LIVE LOAD (PSF) DEAD LOAD (PSF)	STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS. HOLES FOR BOLTS SHALL BE AISC STANDARD HOLES UNO	15.01	ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d NAILS		IS REQUIRED.	NEITHER FLASHING NOR A TREAT IN ADDITION, THE TREATED DEC	
	BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH	8.02 LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. PILOT HOLES		© 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS © 16" O.C. FOR 2X8, ONE ROW OF 10d NAILS © 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN.		WITH THE BRI		
	FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES 40 10 GARAGES (PASSENGER CARS ONLY) 50	SHALL BE USED FOR LAG SCREW INSTÂLLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-070) FOR SCREW HEAD	15.02	LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP			THE FOLLOWING ATTACHMENT SC	
	ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10	8.03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT		UNO	A. ALL STRUCTURES EXCEPT BRICK STRUCTURES		IRFS	
	ATTICS (WITH STORAGE) 20 10 ROOF 20 10 (15 FOR VAULTS)	ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO	16.01	PART 16: WALL FRAMING AND BRACING STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL				NST LENGTH
NOTE	S: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED	PART 9: DRIVEN FASTENERS 9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667- 05. NAILS ARE TO BE	10.01	BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A	_		UP TO 8' MAX.	UP TO 16' N
	LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.	COMMÓN WIRE OR BOX		STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO.		REQUIRED 0 FASTENERS (2	NE- 5/8" Ø BOLT @ 42" O.C. /) ROWS OF 12d NAILS @ 8" O.C	ND ONE- 5/8" Ø BOLT @ 2 . OR (3) ROWS OF 12d NAILS
	 BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS 	PART 10: DIMENSIONAL LUMBER 10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2		MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, INCLUSIVE OF SOLE PLATE AND DBL TOP PLATE AND 7/16 OSB EXTERIOR BRACING AND ROW OF 2X4 2X6 PURINS AT & HEIGHT (AND /16 HEIGHT FOR TALL WALLS), TYP UNO:		ĬV	VO ROWS OF SIMPSON SDWS2240 @ d = 32" O.C. STAGGERED	ODB TWO ROWS OF SIMPSON © d = 16" O.C. ST
2.02	INTERIOR WALLS: 5 PSF LATERAL.	FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC.		2X4 @ 12" 0.C:: 12'-1 1/2" 2X6 @ 12" 0.C:: 17'-0" 2X4 @ 12" 0.C:: 12'-1 1/2" 2X6 @ 12" 0.C:: 18'-8"	A	. BRICK VENEE	R STRUCTURES	
2.03	BASIC WIND DESIGN VELOCITY OF 120 MPH.	PART 11: ENGINEERED LUMBER 11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:		DBL 2X4 @ 16" O.C.: 13'-4" DBL 2X6 @ 16" O.C.: 21'-0"			JC	IST LENGTH
2.04	SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).	E= 1.9 X 10E6 PSI, F0 = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:	16.02	FOR WALL BRACING THE FOLLOWING SHALL APPLY: -BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO. -WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION	-	REQUIRED	UP TO 8' MAX.	UP TO 16' M/
	PART 3: STRUCTURAL STEEL	E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI		- WALL BRACING IS DE ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10		FASTENERS	ONE- 5/8" Ø BOLT @ 28" O.C	. ONE- 5/8" Ø BOLT (
3.01	WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM GRADE	11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS		OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED. -BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO			BAND IS SUPPORTED BY A 1/2" /ALL, 5/8" Ø BOLTS SPACED @	
3.02	SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM GRADE.	PART 12: PRESSURE TREATED LUMBER		PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS. —MAY SUBSTITUTE WSP FOR GB			G OF SUPPORT, SUCH AS JOIST I	
3.03	STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE	12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD		-Single joist, continuous Rim Joist, or Blocking of Equal Depth is required Above and below all braced Walls. Nail Blocking Above Wall to top plate			REATED STRUCTURE BAND	
3.04	ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE	GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A)	L	WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED	7.	GIRDERS SHAL WITH 2- 5/8	L BEAR DIRECTLY ON POSTS OR Ø BOLTS	BE BE CONNECTED TO THE S
3.05	STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.	PART 13: STEEL FLITCH PLATE BEAMS		WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO. <u>PART 17: KING STUDS</u> 11 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:	8.	,	IG SHALL BE NO. 2 GRADE TREA	TED SOUTHERN PINE OR EQUI
	POR BUILDINGS. PART 4: WELDING	13.01 FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PIECES TOGETHER				MINIMUM FLOO	r decking thickness shall be	AS FOLLOWS:
4.01	welding electrodes shall be e70xx and all welding shall be performed by an	USING 1/2" Ø BOLTS SPACED AT 16" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 16" MAX		NUMBER OF KING STUDS MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"			JOIST SPAN	DECKING
	AWS CERTIFIED WELDER PART 5: CONCRETE AND SLABS ON GRADE	FROM EACH END OF THE BEAM. TYP UNO PART 14: STUD SUPPORTS FOR BEAMS		2X4 1 2 3 4 5 STUD SIZE 2X6 1 1 2 2 2			12" O.C. 16" O.C.	1"S4S 1"T&G
5.01	CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 4-6% AIR ENTRAINMENT, FOR	14.01 STEEL ENGINEERED LUMBER. AND FLITCH PLATE BEAMS BEARING ON A STUD WALL		2x8 1 1 1 1 2			24" O.C. 32" O.C.	1 1/4" S4S 2" S4S
	EXTERIOR CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYPP UNO. <u>ALL</u> ITEMS NOTED AS 'CONCRETE' ARE TO BE CAST IN PLACE, TYP UNO.	SHALL BEAR AS FOLLOWS: 1WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM	18.01	PART 18: SUBSTITUTIONS MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN		MAXIMUM HEIO	SHT OF DECK SUPPORT POSTS IS	S AS FOLLOWS:
5.02	REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED. MIXED AND PLACED IN	Shall bear <u>full width</u> on the supporting wall indicated and shall be supported by a minimum of three ganged studs, or a ganged stud column with a number		AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.			POST SIZE	MAX POST HEIGH
5.03	ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION. SLABS ON GRADE, IF ANY, SHALL BE CAST IN PLACE, CONTAIN SYNTHETIC	OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WOTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO. FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON		PART 19: OWNERSHIP OF STRUCTURAL DESIGN			4X4 6X6	8' 20'
5.05	POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LDS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 4" MIN GRANULAR	CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMIN IS CENTERED ON THE BEAM 2-DEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR	19.01	THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (FTA) THESE PLANS ARE FOR THE ONE TIME LISE AT THE LOCATION			ENGINEERED	20' +
	FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS	A minimum of 4 $1/2^{\prime\prime}$ onto the wall and be supported by a trpl stud ganged column typ uno.		ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE, REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT			HS TABLE IS BASED ON NO. 2 T HS TABLE IS BASED ON A MAXIN	
	PART 6: REBAR AND WIRE REINFORCEMENT	14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:		ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA		3) P(ost height is from top of fo	oting to bottom of girder.
6.01	REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO	1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR <u>FULL WIDTH</u> ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW			10.	DECKS SHALI METHODS:	L BE BRACED TO PROVIDE LATER	RAL STABILITY BY ONE OF THE
	LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.	FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS					e deck floor height is less	
0.00	PART 7: MASONRY	TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A					CTURE IN ACCORDANCE WITH SE	,
7.01	CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,	MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO.				THE KNEE	KNEE BRACES MAY BE PROVIDE BRACES SHALL ATTACH TO EAC	CH POST AT A POINT NOT LES
						BETWEEN	LENGTH FROM THE TOP OF THE 45° AND 60° FROM THE HORIZO	NTAL. KNEE BRACES SHALL B
							STO THE GIRDER AND THE POST STANDING DECKS WITHOUT KNEE	,
					_	STABILITY	MAY BE PROVIDED BY EMBEDDIN FOLLOWING:	
						POST SIZE		GHT EMB. DEPTH CONC
						4X4	48 SQ. FT. 4'-0"	2'-6" 1'
						6X6	120 SQ. FT. 6'-0"	
1						DIRECTION	NAL VERTICAL CROSS BRACING S FOR FREE STANDING DECKS O	R PARALLEL TO THE STRUCTU
1							COLUMN LINE FOR ATTACHED DI S WITH ONE - 5/8" Ø BOLT AT	
1				NOT		ails and bolts are to be hot		
1							IM EDGE DISTANCE FOR BOLTS IS MUST PENETRATE THE SUPPORT	
					_			

