

THESE PLANS ARE PROTECTED UNDER FEDERAL ROGINAL PURCANASR OF THESE PLANS IS THE PLANS FOR THE CONSTRUCTION OF ONE STRUCTION HAS STRUCE FAMILY HOME. REPRODUCTION, MODIFACTION, SELESSES, ATED. THESE PLANS WITHOUT THE WITTITH COME HOME DESIGNS," NUCORPORATED. IS EXPRESSY.

ASTEE AL DIMENSIONS AND SITE DIMENSIONS ARE TO REPORT SOUTHERN HOME DESIGNS, UNCORONANT FRANK RESON SOUTHERN HOME DESIGNS, INCORONANT FRANK RESON SIGNALITIES.

Southern Home Designation South Salem Street, Suite 101, Apex, NC 27502 819,3807,400 Office 919,3807,446 Fax

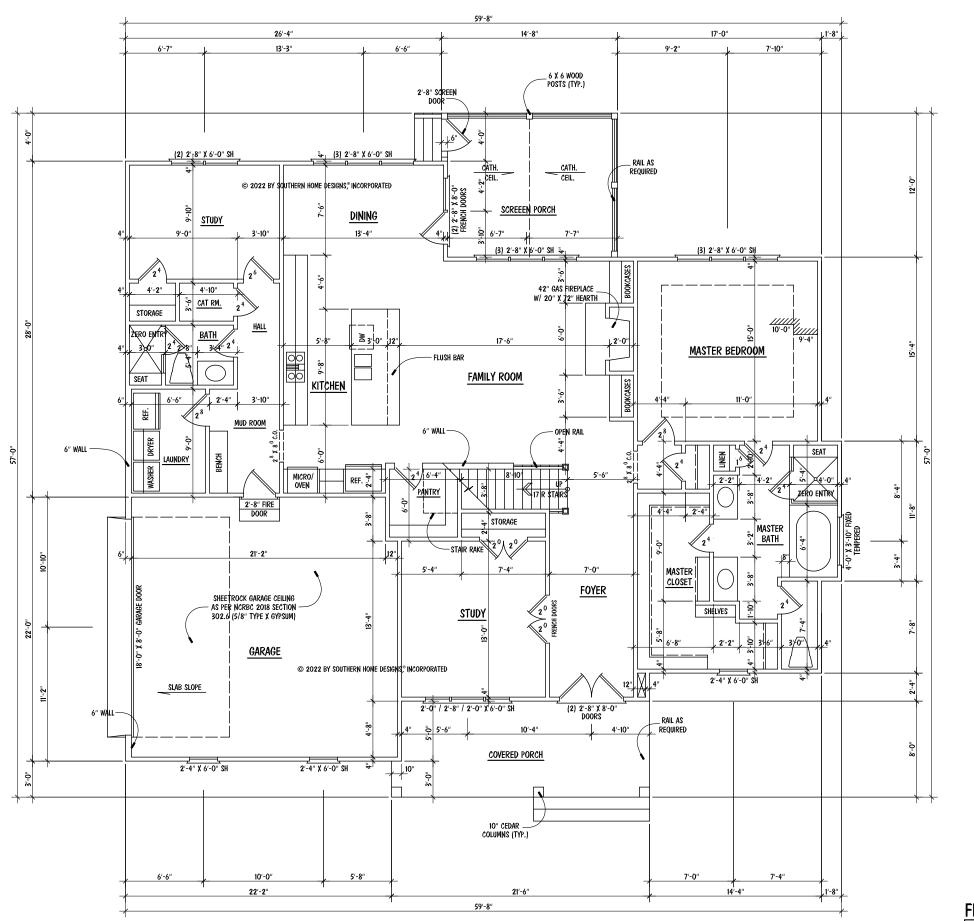
THE RICHMOND RESIDENCE LOT 110 SERENITY

ENGR. #:

DATE: 09-27-22

SHEET: A-1

PLAN #: 22-092722



- SET WINDOWS @ 8'-0" A.F.F. (TYP.) U.N.O

CRAWL SPACE VENTILATION

OF FREE VENT AREA REQUIRED

SEE SECTION R408.1 OF 2018 NCRBC (2015 IRC)

IF APPROVED VAPOR BARRIER IS INSTALLED OVER 100% OF CRAWL FLOOR AREA AND VENTS ARE INSTALLED TO PERMIT CROSS- VENTILATION OF CRAWL SPACE.

SQUARE FOOTAGE FIRST FLOOR 1965 SECOND FLOOR 1038 TOTAL 3003 MISCELLANEOUS GARAGE 497 FRONT PORCH 168 SCREEN PORCH 172 MECH. / STOR. 486

FIRST FLOOR PLAN

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

SHEET: A-2 PLAN #: 22-092722

ENGR. #:

DATE: 09-27-22

Houseplan

Csigns

Southern

THE RICHMOND RESIDENCE LOT 110 SERENITY

TRIPLE A HOMES, INC.

ALL DIME BEFORE BEGUN S FROM AN

© 2022 BY SOUTHERN HOME DESIGNS, INCORPORATED

NOTES:

- 10'-0" CEILING HGT. (TYP.) U.N.O.

- STAIRS: UP 17 R (TYP.), 1ST FLOOR TO 2ND FLOOR

1965 Sq. ft. of crawl area / 150 = 13.10 Sq. ft.

FREE VENT AREA REQUIRED MAY BE REDUCED TO 1/1500 SEE SECTION R408.1.1.

NOTES:

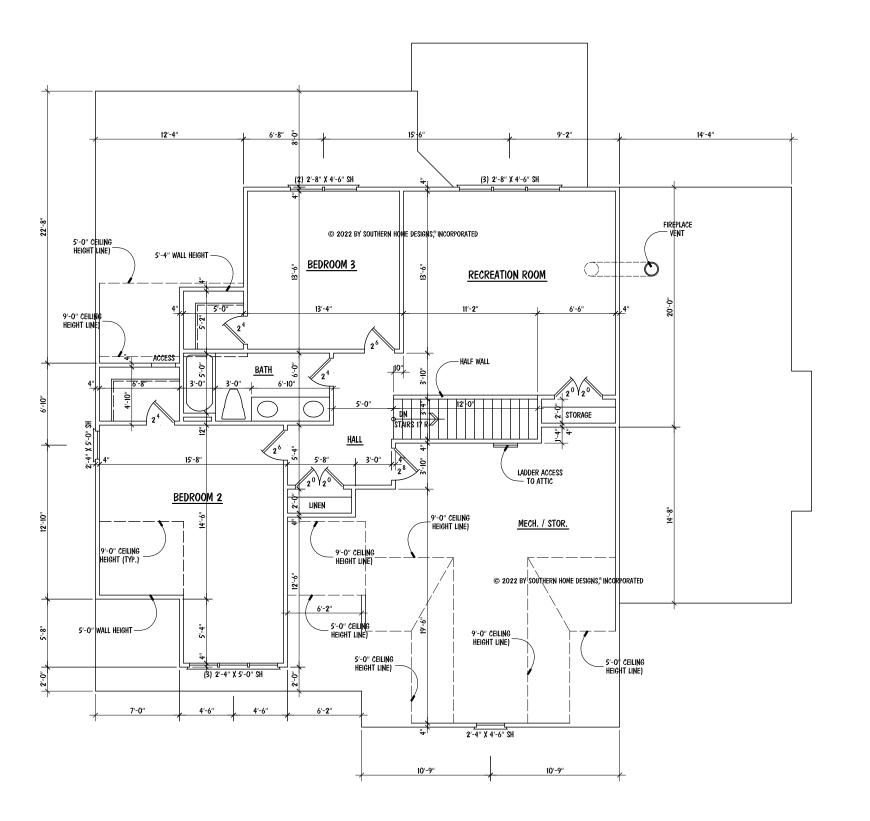
. MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 21'-0"

ATTIC VENTILATION:

2802 SQUARE FEET = 9.34 REQUIRED

THE NET FREE AREA OF VENTILATION REQUIRED IS TO BE

9.34 SQUARE FEET.



NOTES:

- 9'-0" CEILING HGT. (TYP.) U.N.O.
- SET WINDOWS @ 7'-4" A.F.F. (TYP.) U.N.O
- SET WINDOWS IN RECREATION ROOM & FRONT WINDOWS IN BEDROOM 2 @ 7'-8" A.F.F.
- SET FRONT WINDOW IN MECH. / STOR. @ 7'-0" A.F.F.
- STAIRS: DN 17 R (TYP.), 2ND FLOOR TO 1ST FLOOR



Southern Home Designs

INGERPORATION
301 South Salem Street, Suite 101, Apex, NC 27502
915 Street, State 100, Apex, NC 27502
915 Street, State 100, Apex, NC 27502
1916 Street, Street, State 100, Apex, NC 27502
1917 Street, State 100, Apex, NC 27502
1917 Street, Street,

THE RICHMOND RESIDENCE LOT 110 SERENITY

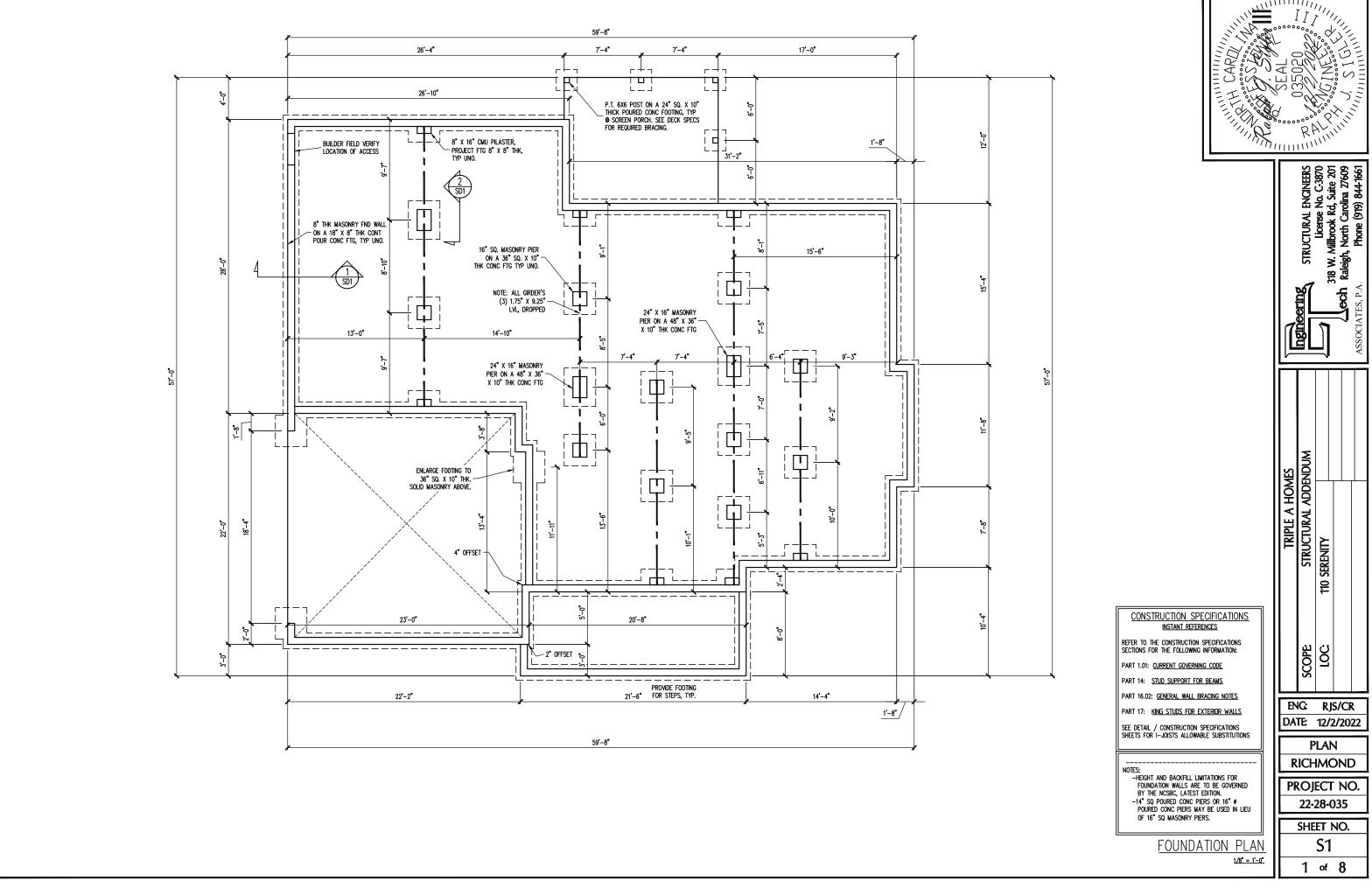


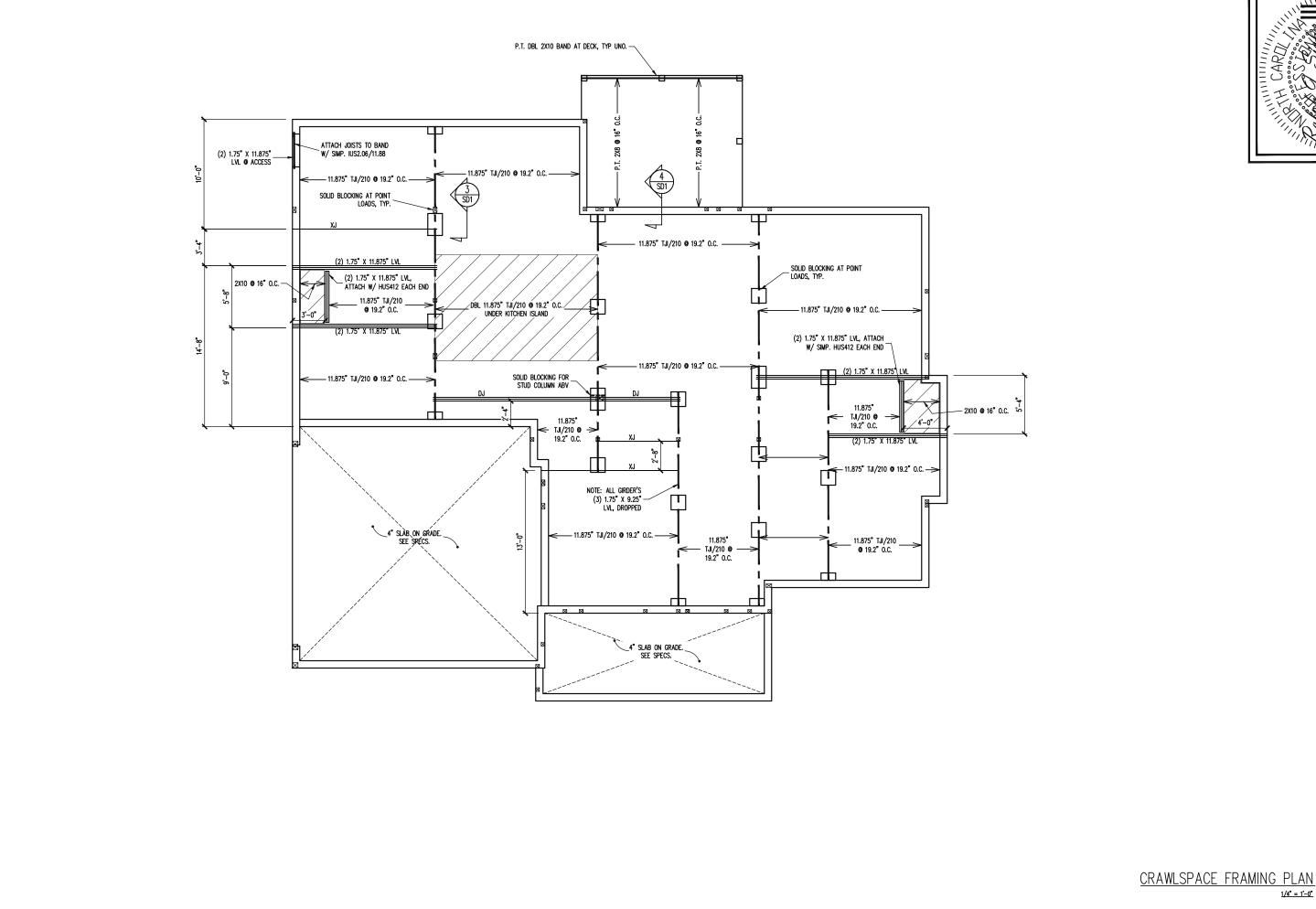
SECOND FLOOR PLAN

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

SHEET: A-3
PLAN #: 22-092722

DATE: 09-27-22





CARCHILLING CONTROLL CONTROLL

TRIPLE A HOMES

SCOPE
STRUCTURAL ADDENDUM

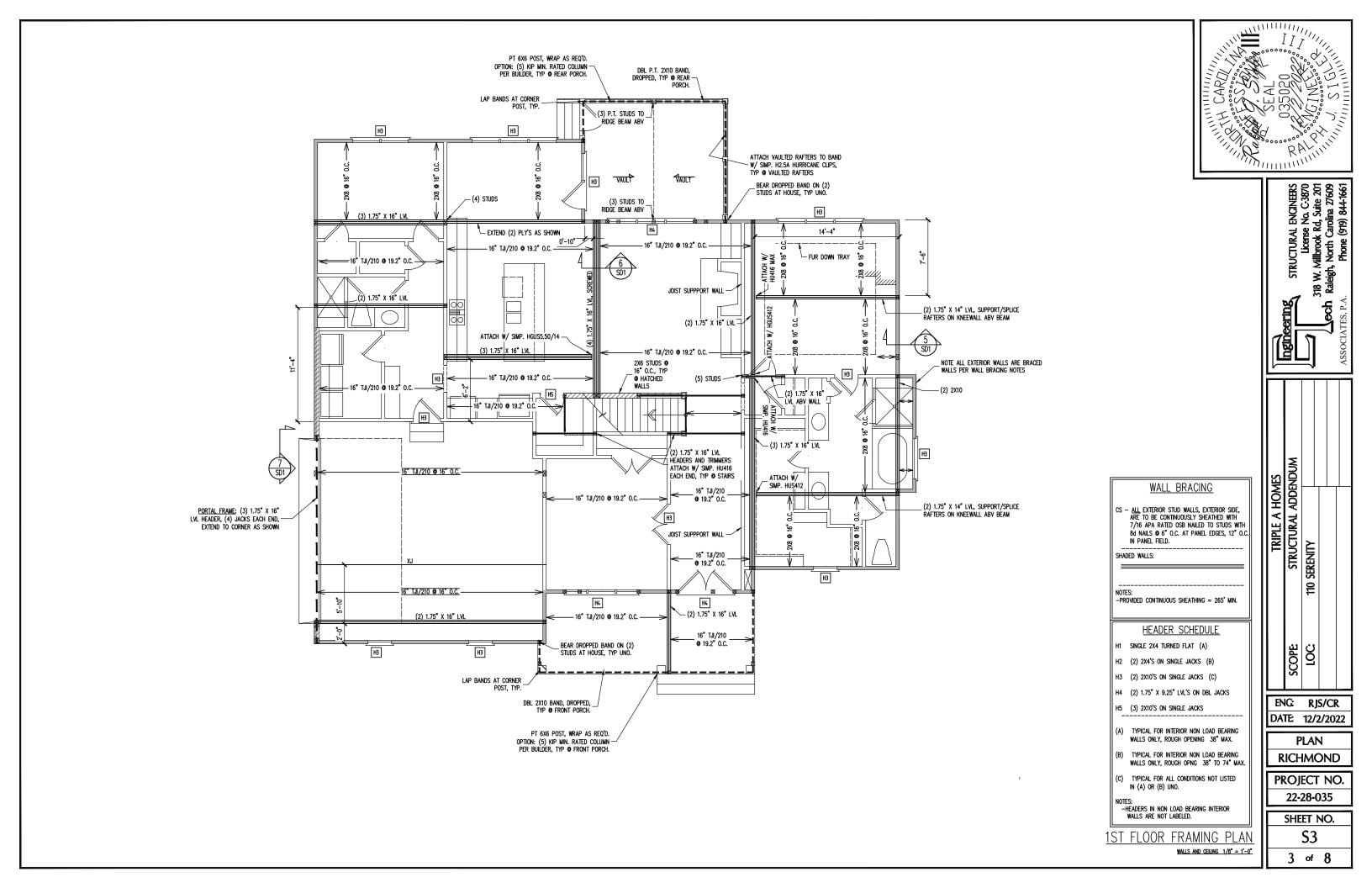
LOC
T10 SERENITY

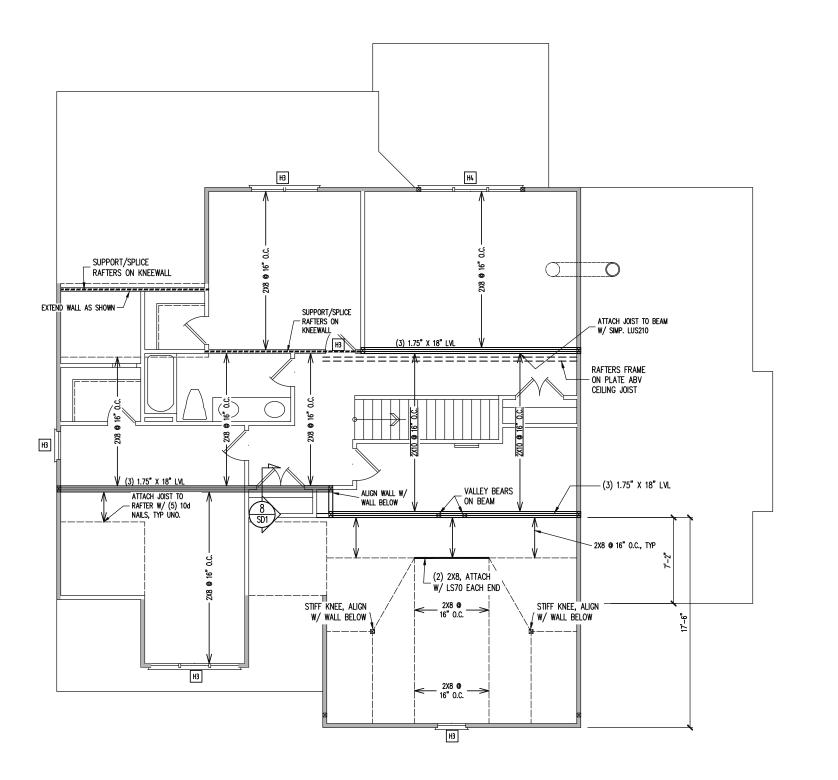
ASSOCIATES, P.A.

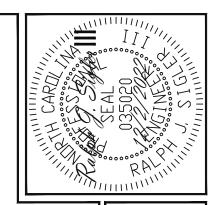
ASSOCIATES, P.A.

PLAN
RICHMOND
PROJECT NO.
22-28-035
SHEET NO.

S2







WALL BRACING

CS - <u>ALL</u> 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.

SHADED WALLS:

-PROVIDED CONTINUOUS SHEATHING = 127' MIN.

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.

2ND FLOOR FRAMING PLAN

WALLS AND CEILING 1/8" = 1'-0"

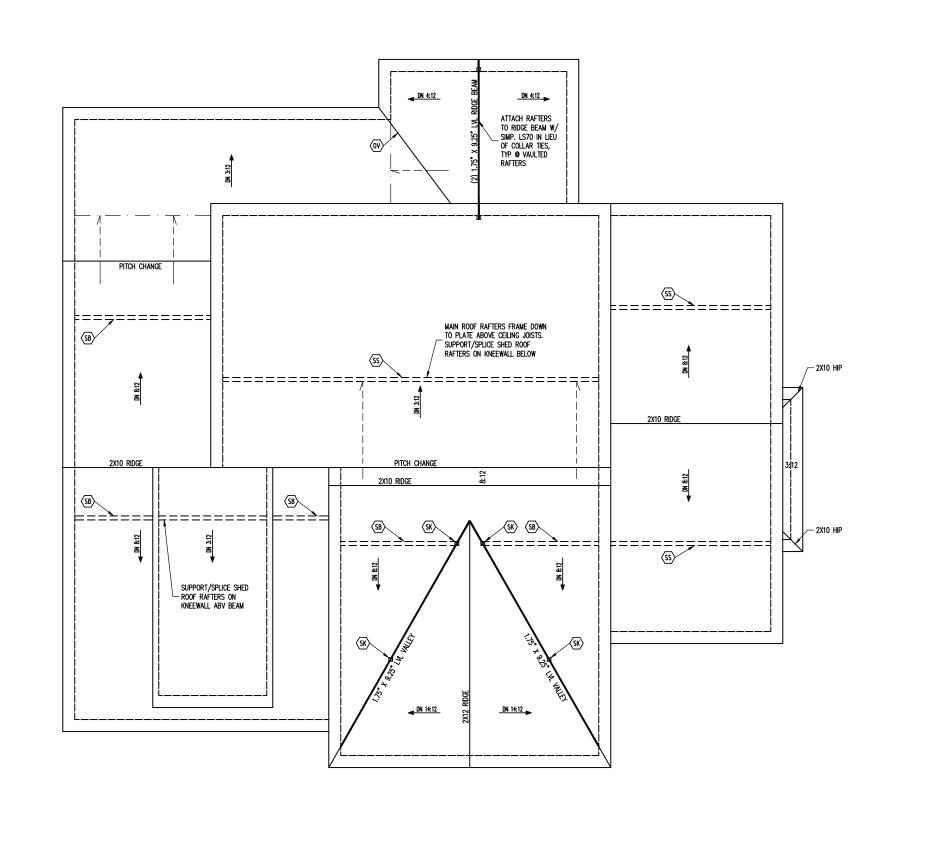
ENG: RJS/CR DATE: 12/2/2022 PLAN

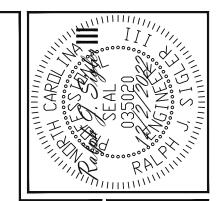
TRIPLE A HOMES
STRUCTURAL ADDENDUM
) SERENITY

RICHMOND

PROJECT NO. 22-28-035

SHEET NO. **S4**





TRIPLE A HOMES STRUCTURAL ADDENDUM SERENITY

ROOF ONLY OV OVERFRAME VALLEY (2X10 SLEEPER)

FRAMING SCHEDULE

- SK DBL 2X4 STIFF KNEE
- SS SUPPORT/SPLICE RAFTERS ON KNEEWALL BELOW
- SB SUPPORT/SPLICE RAFTERS ON BEAM BELOW

FRAMING NOTES

ROOF ONLY

-COMMON RAFTERS 2X8 @ 16" O.C. TYP U.N.O.
-COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS
TYP U.N.O.
-VERIFY ALL KNEEWALL HEIGHTS,
ARCHITECTURAL OVERHANCS, AND ROOF PITCHES
PRIOR TO CONSTRUCTION

ROOF FRAMING PLAN

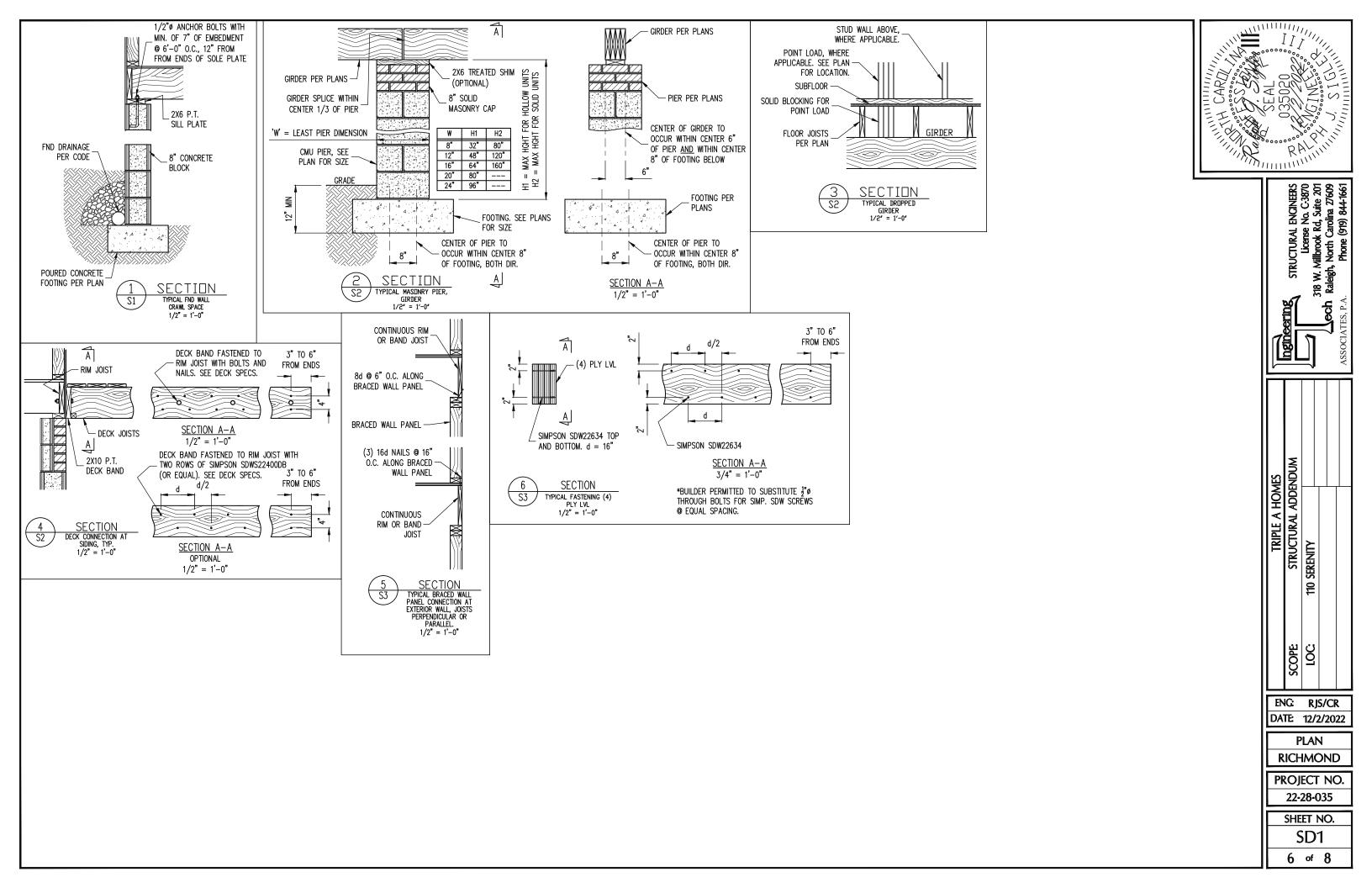
1/8" = 1'-0"

S5 5 of 8

ENG: RJS/CR DATE: 12/2/2022

> PLAN **RICHMOND**

PROJECT NO. 22-28-035 SHEET NO.



(2) CONT. 2X TOP PLATES, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

> CONT. 2X PLATE WITH 10d NAILS AT 16" O.C. INTO HEADER/BEAM

7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM, INFILL WALL ABOVE BEAM, AND CENTER WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD.

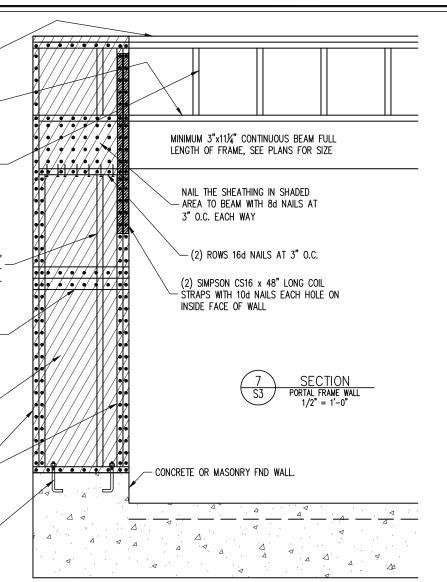
WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.

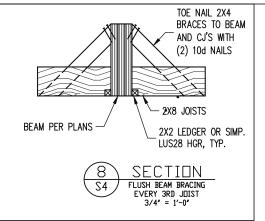
FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING AND OCCUR WITHIN MIDDLE 24" OF WALL HEIGHT. ONE ROW OF 3" O.C. NAILING IS REQUIRED IN EACH PANEL EDGE.

7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS -(STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C.

(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

2x4 P.T. PLATE WITH TWO 1/2" DIA x 7" EMBED ANCHOR BOLTS WITH A 3/16"x2"x2" PLATE -WASHERS OR ADDITIONAL HOLDOWN PER PLANS





ALLOWABLE I-JOIST SUBSTITUTION

NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON

MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR
BUELINX BOISE CASCADE INTERNATIONAL BEAMS LP CORP NORDIC ROSEBURG WEYERHAEUSER	11.875" 11.875" 11.875" 11.875" 11.875" 11.875" 11.875"	BLI 40 BCI 6000s IB 400 LPI 20+ NI 40X RFPI 40s TJI 210	IUS2.56/11.88 IUS2.37/11.88 IUS2.56/11.88 IUS2.56/11.88 IUS2.56/11.88 IUS2.56/11.88 IUS2.06/11.88	ITS2.56/11.88 ITS2.37/11.88 ITS2.56/11.88 ITS2.56/11.88 ITS2.56/11.88 ITS2.56/11.88 ITS2.06/11.88
WEYERHAEUSER BLUELINX BUSE CASCADE BOISE CASCADE BOISE CASCADE INTERNATIONAL BEAMS LP CORP NORDIC ROSEBURG WEYERHAEUSER	11.875" 16" 16" 16" 16" 16" 16" 16" 16" 16"	EEI-20 BLI 40 BLI 60 BCI 5000s BCI 6000S IB 6000 LPI 20+ NI 40X RFPI 60S TJI 210	IUS2.56/16 IUS2.56/16 IUS2.56/16 IUS2.06/16 IUS2.56/16 IUS2.56/16 IUS2.56/16 IUS2.56/16 IUS2.56/16 IUS2.56/16	ITS2.37/11.88 ITS2.56/16 ITS2.56/16 ITS2.06/16 ITS2.56/16 ITS2.56/16 ITS2.56/16 ITS2.56/16 ITS2.56/16 ITS2.56/16 ITS2.56/16

JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH EQUIVALENT VALUES AS DESIRED.

DECK SPECIFICATIONS

- A DECK IS AN EXPOSED EXTERIOR WOOD FLOOR STRUCTURE WHICH MAY BE ATTACHED TO A STRUCTURE OR BE FREE STANDING. ROOFED PORCHES, OPEN OR SCREENED IN, MAY BE CONSTRUCTED USING THESE PROVISIONS.
- SUPPORT POSTS SHALL BE SUPPORTED BY A FOOTING.
- WHEN ATTACHED TO A STRUCTURE THE STRUCTURE TO WHICH ATTACHED SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION RESISTANT FLASHING SHALL BE USED TO PREVENT MOISTURE FROM COMING IN CONTACT WITH THE UNTREATED FRAMING OF THE STRUCTURE. THE DECK BAND AND THE STRUCTURE BAND SHALL BE CONSTRUCTED IN CONTACT WITH EACH OTHER EXCEPT AT BRICK VENEER AND WHERE PLYWOOD SHEATHING IS REQUIRED AND PROPERLY FLASHED. SIDING SHALL NOT BE INSTALLED BETWEEN THE STRUCTURE AND THE DECK BAND. IF ATTACHED TO A BRICK STRUCTURE, NEITHER FLASHING NOR A TREATED BAND FOR THE BRICK STRUCTURE IS REQUIRED. IN ADDITION, THE TREATED DECK BAND SHALL BE CONSTRUCTED IN CONTACT
- WHEN THE DECK IS SUPPORTED AT THE STRUCTURE BY ATTACHING THE DECK TO THE STRUCTURE, THE FOLLOWING ATTACHMENT SCHEDULES SHALL APPLY FOR ATTACHING THE DECK BAND TO THE STRUCTURE:

A. ALL STRUCTURES EXCEPT BRICK STRUCTURES

	JOIST LENGTH				
	UP TO 8' MAX. UP TO 16' MAX.				
REQUIRED FASTENERS	(2) ROWS OF 12d NAILS @ 8" O.C. OR	ONE- 5/8" Ø BOLT © 20" O.C. AND (3) ROWS OF 12d NAILS © 6" O.C. OR TWO ROWS OF SIMPSON SDWS22400DB © d = 16" O.C. STAGGERED			

A . BRICK VENEER STRUCTURES

	JOIST LENGTH		
	UP TO 8' MAX. UP TO 16' MAX.		
REQUIRED FASTENERS	ONE- 5/8" Ø BOLT @ 28" O.C.	ONE- 5/8" Ø BOLT @ 16" O.C.	

- IF THE DECK BAND IS SUPPORTED BY A 1/2" MINIMUM MASONRY LEDGE ALONG THE FOUNDATION WALL, 5/8" Ø BOLTS SPACED @ 48" O.C. MAY BE USED FOR SUPPORT.
- OTHER MEANS OF SUPPORT, SUCH AS JOIST HANGERS, MAY BE USED TO CONNECT DECK JOISTS TO A TREATED STRUCTURE BAND
- GIRDERS SHALL BEAR DIRECTLY ON POSTS OR BE BE CONNECTED TO THE SIDES OF POSTS WITH 2- 5/8" Ø BOLTS
- FLOOR DECKING SHALL BE NO. 2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. THE MINIMUM FLOOR DECKING THICKNESS SHALL BE AS FOLLOWS:

JOIST SPAN DECKING 12" O.C. 1" S4S 16" O.C. 1" T&G 24" O.C. 1 1/4" S4S 32" O.C.

MAXIMUM HEIGHT OF DECK SUPPORT POSTS IS AS FOLLOWS:

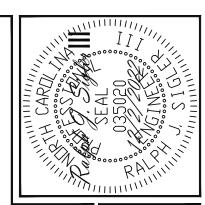
POST SIZE	MAX POST HEIGHT	
4X4	8'	
6X6 ENGINEERED	20' 20' +	
	20 1	ı

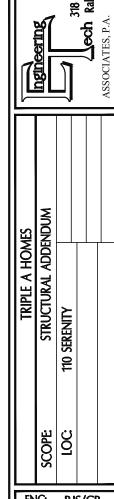
- NOTES: 1) THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. 2) THIS TABLE IS BASED ON A MAXIMUM TRIBUTARY AREA OF 128 SQ. FT. 3) POST HEIGHT IS FROM TOP OF FOOTING TO BOTTOM OF GIRDER.
- DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THE FOLLOWING
- A. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-O" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION 4, LATERAL BRACING IS NOT REQUIRED.
- B 4X4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLLIMN 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 ANGLED THE ENDS TO THE GIRDER AND THE POST WITH ONE - 5/8" BOLT
- C. FOR FREE STANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN CONCRETE IN ACCORDANCE WITH THE FOLLOWING:

POST SIZE	TRIBUT. AREA	POST HEIGHT	EMB. DEPTH	CONC. DIAM.
4X4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
6X6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

- D. 2X6 DIAGONAL VERTICAL CROSS BRACING SHALL BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREE STANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE BRACES SHALL BE ATTACHED TO THE POSTS WITH ONE - 5/8" Ø BOLT AT EACH END OF THE BRACE.
- 1) ALL NAILS AND BOLTS ARE TO BE HOT DIPPED GALVANIZED.

 - 2) MINIMUM EDGE DISTANCE FOR BOLTS IS 2 1/2".
 3) NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 1 1/2".





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ENG: RJS/CR DATE: 12/2/2022

PLAN RICHMOND

PROJECT NO. 22-28-035

> SHEET NO. SD2

CONSTRUCTION SPECIFICATIONS

PART 1: GENERAL

- 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
- 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.

PART 2: DESIGN LOADS

2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

USE	LIVE LOAD (PSF) DEAD LOAD (PSF)
BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES	40	10
GARAGES (PASSENGER CARS ONLY) 50	
ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10	10
ATTICS (WITH STORAGE) 20	10
ROOM	F 20	10 (15 FOR VAULTS)

- NOTES: INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.

 BUILDER TO VERTIFY DEAD LOAD DOES NOT EXCED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS
- 2.02 INTERIOR WALLS: 5 PSF LATERAL.
- 2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.
- 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

PART 5: CONCRETE AND SLABS ON GRADE

- CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP
- 5.02 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
- 5.03 SLABS ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2*, DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 2* MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD POCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS

PART 6: REBAR AND WIRE REINFORCEMENT

- 6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
- 6.02 LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318. TYP UNO
- 6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.

- 7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, f'M = 1.500 PSI MIN
- 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 COMPRESSIVE STRENGTH OF 2000 PSI.

7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530

7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS

PART 8: BOLTS AND LAG SCREWS

- 8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS
- 8.02 LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1—1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-070) FOR SCREW HEAD

PART 9: DRIVEN FASTENERS

9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667-05. NAILS ARE TO BE COMMON WIRE OR BOX

10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR <u>OR</u> SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC.

PART 11: FNGINFFRFD LUMBER

11.01 LV.L OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.9 X 10E6 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI

PART 12: PRESSURE TREATED LUMBER

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 GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A)

PART 14: STUD SUPPORTS FOR BEAMS

- 4.01 STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
- 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 and shall be supported by a minibum of three ganged studs, or a canged stud column with a number of studs such that the stud column is at least as wide as the true width of the beam being supported, whichever is greater, the und, for the skew condition particular care shall be taken to ensure stud column is centered on the feam.
- THE BEAM
 2-BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR
 A MINIOUN OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED
- 4.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
- 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 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 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
- MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN
- 14.03 Extra joists bearing on a stud wall perpendicular to or skewed relative to the beam shall be supported by one additional stud.
- STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN 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 14.04

be continuous down to the foundation or other properly designed structural element such as a beam. Columns transferring loads through floor levels shall be soldly blocked for the full width of the stud column within the cavity formed by the

PART 15: NAILING OF MULTI PLY WOOD BEAMS

- 15.01 SOUID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d NAILS © 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.
- LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP 15.02

PART 16: WALL FRAMING

STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERNEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO

PART 17: KING STUDS

17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

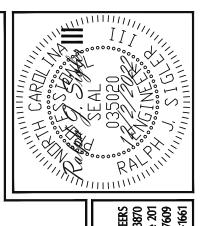
					ig studs	
MAX OPENIN	G WIDTH	5'-0"	9'-0"	13'-0"	17'-0"	21'-0
STUD SIZE	2X4 2X6	1	2	3	4	5
STUD SIZE	2X8	ł	1	1	1	2

PART 18: SUBSTITUTIONS

18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

PART 19: OWNERSHIP OF STRUCTURAL DESIGN

19.01 THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH 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 ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA



	STRUCTURAL ENGIN	License No. C. 338 W Millbrock Pd. Stiffs	☐ Raleigh, North Carolina 2	ASSOCIATES, P.A. Phone (919) 844	
TRIPLE A HOMES	STRUCTURAL ADDENDUM	SERENITY			

ENG: RJS/CR DATE: 12/2/2022

PLAN

PROJECT NO. 22-28-035

SPECS

NOTES

THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (FOR) REFORE PROCEEDING IF THE THE WORKING PLANS DO NOT BEAR THE SEAL OF THE FOR

- THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION
- ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO

ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE

THE FOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.

ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

ABBREVIATIONS

١V	ABOVE	FND
В.	BOTH	FTG
E.	BOTH ENDS	HDG
W	BETWEEN	
IΡ	CAST IN PLACE	HGR
IC	CONCRETE	LVL
cs	CONTINUOUS SHEATHING	
I A	DIAMETED	NTC

DBL DOUBLE DJ DOUBLE JOIST DSP DBI STUD POCKET EQ EQUAL EA EACH

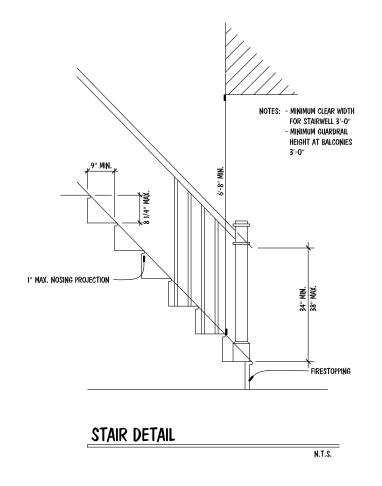
HANGER LAMINATED VENEER NTS NOT TO SCALE O.C. ON CENTER
PSL PARALLEL STRAND LUMBER PRESSURE TREATED QJ QUAD JOIST SP STUD POCKET SQ SQUARE FL PL FLITCH PLATE FLR FLOOR

FOUNDATION TJ TRIPLE JOIST TYP TYPICAL FOOTING HOT DIPPED

TRPL TRIPLE TRIPLE STUD POCKE UNO UNLESS NOTED

RICHMOND

SHEET NO.



2 X 4 STUDWALL

1/2" ANCHOR BOLTS @ 6'-0" O.C.

BRICK VENEER OR 8"

BLOCK FOUNDATION

CONTINUOUS CONCRETE

GARAGE SLAB SECTION

PARGED

FINISH GRADE

@ 16" O.C.

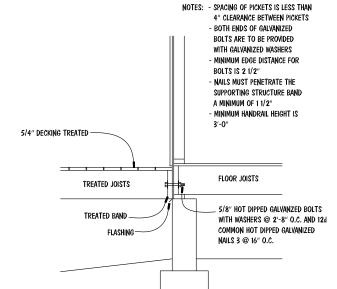
EXPANSION JOINT

COMPACTED

N.T.S.

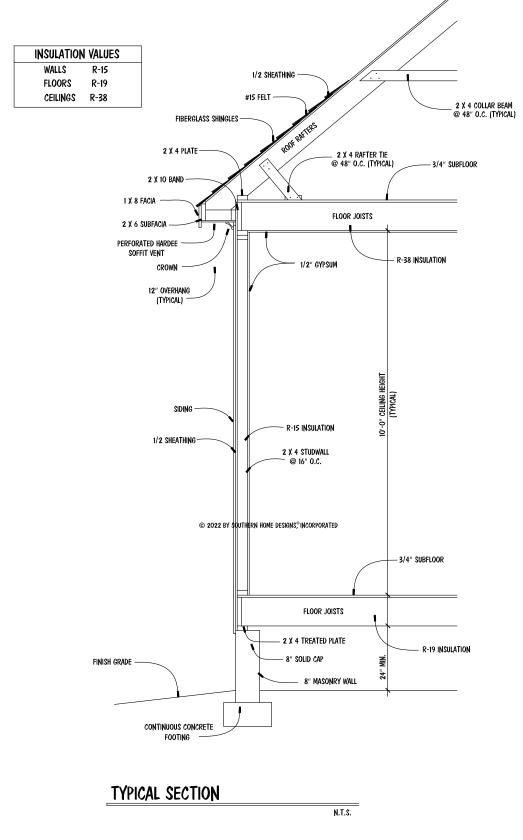
¥≡≡≡≡ **∀**=≡≡ 4" CONCRETE SLAB WITH FIBER REINFORCING OVER 6 MIL. VAPOR

BARRIER OVER 4" WASHED STONE



DECK ATTACHMENT DETAIL

N.T.S.



STR. DETAIL PLAN

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THE RICHMOND RESTORENCE LOT 110 SERENITY HOMES, Suite 101, Apex, NC 27502 919,380,7400 Office 919,380,7464 Fax Web: shaptans.com Email: sha@oc.r.com

DATE: 09-27-22 SHEET: A-4 PLAN #: 22-092722

Houseplan

ALL DIME BEFORE BEGUN S FROM AN