





Area Sc (Elevat	
Name	Area
Heated	
1st Floor	1669 SF
2nd Floor	1980 SF
	3649 SF
Unheated	
Front Porch	99 SF
Garage	412 SF
	511 SF
Under Roof	4160 SF

GREENE - Elevation A

Front & Rear Elevations

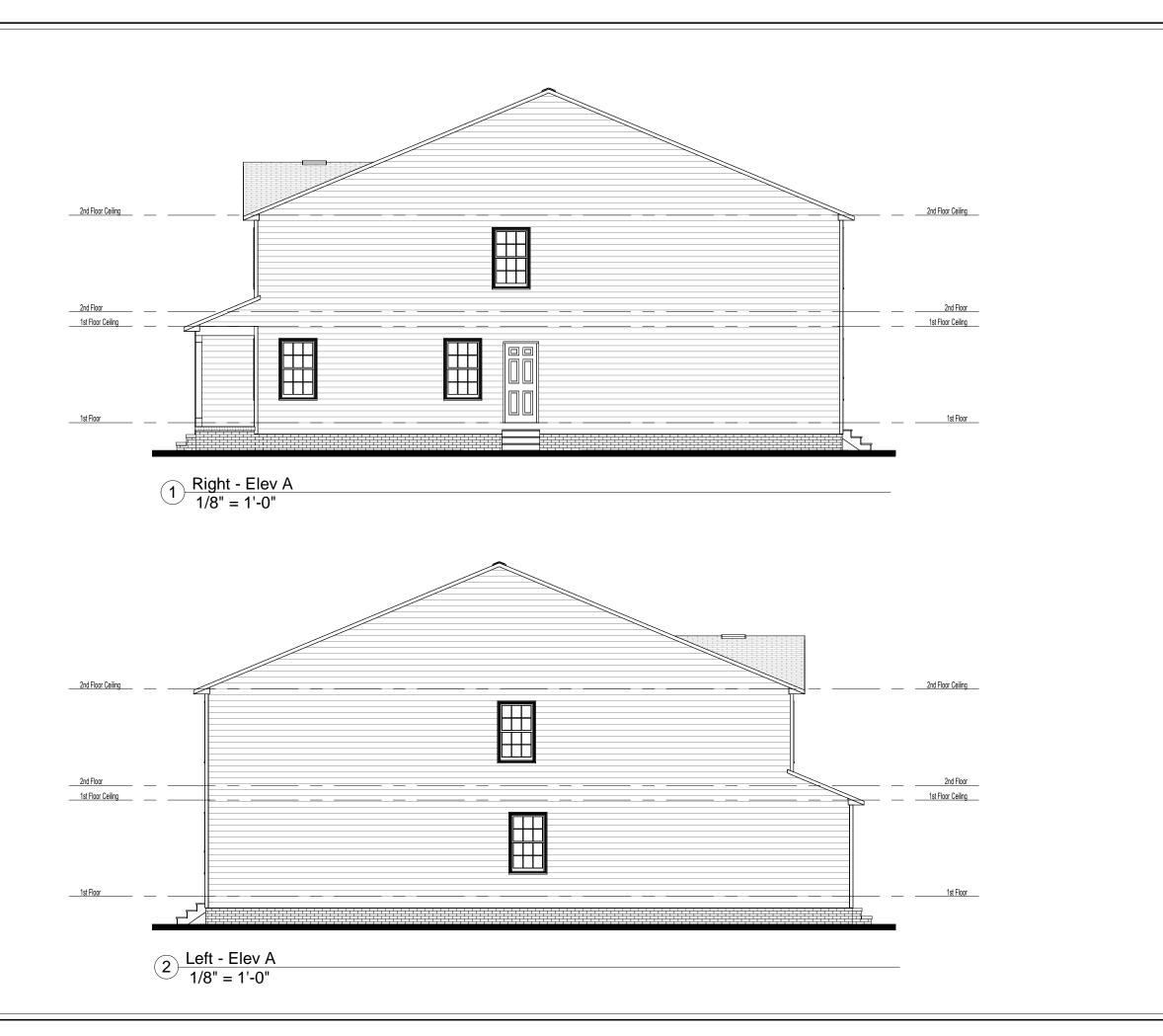
/alueBuild
O M E S
con Davis Hwy, Sanford, NC 27332

Job #: 23-17-09 Address: 754 Benhaven School Rd. Sanford, NC 27332

Plan Version Date:

2-2-21

Job Version Date: 8-22-22





GREENE - Elevation A

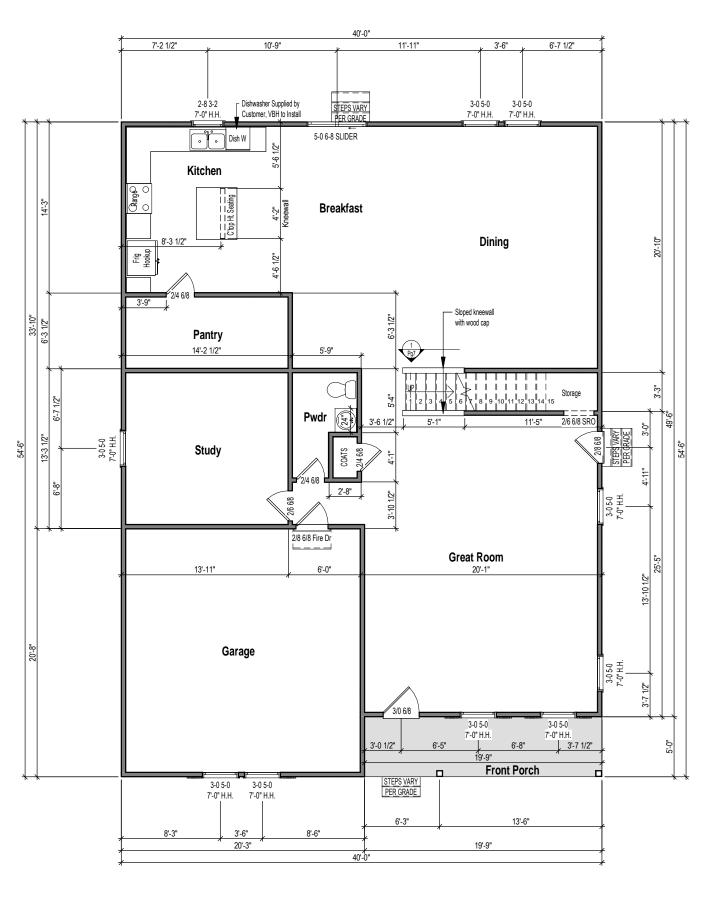
Side Elevations

Benhaven School Rd. ford, NC 27332

Plan Version Date:
2-2-21

Job Version Date: 8-22-22

Wall Stud Size = 2x4 = 2x6



1 1st Floor Plan - Elev A 1/8" = 1'-0"

# **DIMENSIONS**

EXTERIOR WALL DIMENSIONS
 ARE TO FACE OF SHEATHING
 INTERIOR WALL DIMENSIONS
 ARE TO FACE OF STUD

# EXTERIOR DOOR ROUGH OPENINGS

- ALL EXTERIOR SWING DOORS
  HAVE A HEADER HEIGHT
- = TO 3" HIGHER THAN CALL SIZE
- <u>ALL EXTERIOR SLIDING</u> DOORSHAVE A HEADER HEIGHT = TO CALL SIZE

GREENE - Elevation A

1st Floor Plan

alueBuild

Address: 754 Benhaven School Rd. Sanford, NC 27332

Llau Addree San San San Harr

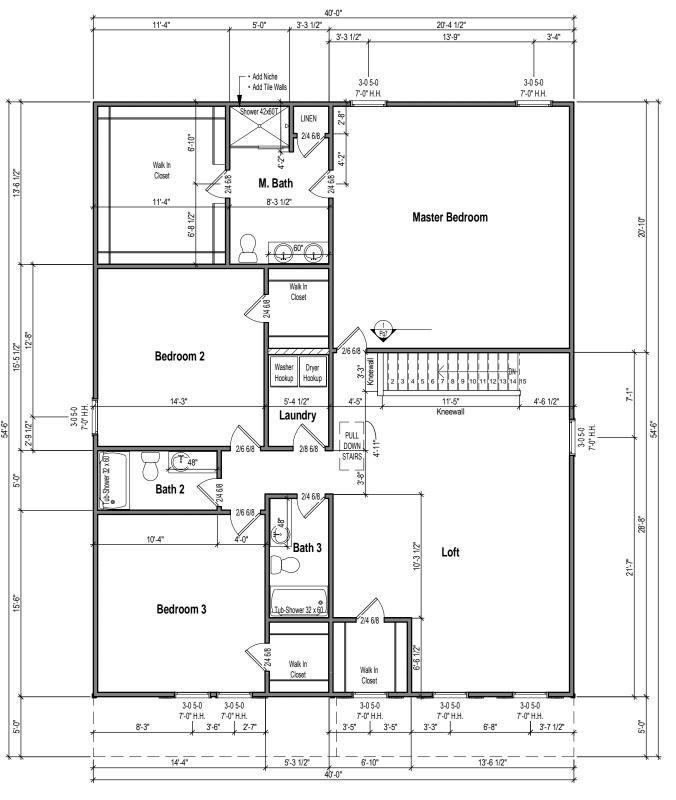
2-2-21

Job Version Date:

Sheet #: A-Pg3

8-22-22

Wall Stud Size = 2x4 = 2x6



1) 2nd Floor Plan - Elev A 1/8" = 1'-0"

# **DIMENSIONS**

• EXTERIOR WALL DIMENSIONS
ARE TO FACE OF SHEATHING
• INTERIOR WALL DIMENSIONS
ARE TO FACE OF STUD

# EXTERIOR DOOR ROUGH OPENINGS

- ALL EXTERIOR SWING DOORS
  HAVE A HEADER HEIGHT
- = TO 3" HIGHER THAN CALL SIZE
- ALL EXTERIOR SLIDING

  DOORSHAVE A HEADER HEIGHT

  = TO CALL SIZE

GREENE - Elevation A

2nd Floor Plan

alueBuild

School Rd.

Address: 754 Benhaven School Rd. Sanford, NC 27332

Plan Version Date:

2-2-21

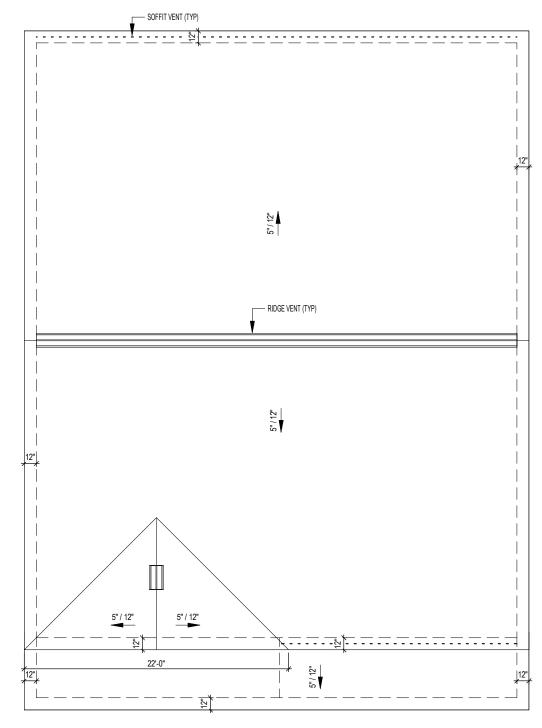
Job Version Date: 8-22-22

# Attic Ventilation Calcs 1/300 (sq.in.)

	Ventilation	Max	Min	Upper	Lower	Total	Ridge	Roof	Sof
	Required	Upper	Upper	Ventilation	Ventilation	Ventilation	Vent	Vents	Ven
Area	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(In.ft.)	(ea)	(sq.f
1980 SF	950	760	475	600	360	960	40	0	60

- CALCS BASED ON THE FOLLOWING VALUES

  Ridge Vents = 15 in² of net free area per linear foot
  Roof Vents = 50 in² of net free area per unit
- Soffit Vents = 6 in² of net free area per square foot



Roof Plan - Elev A 1/8" = 1'-0"



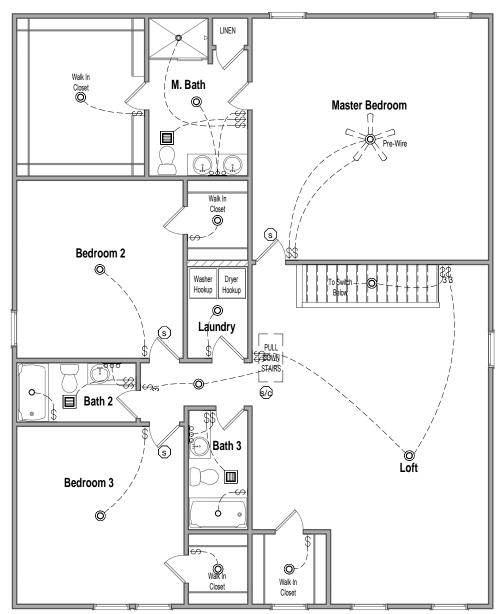
GREENE - Elevation A

**Roof Plan** 

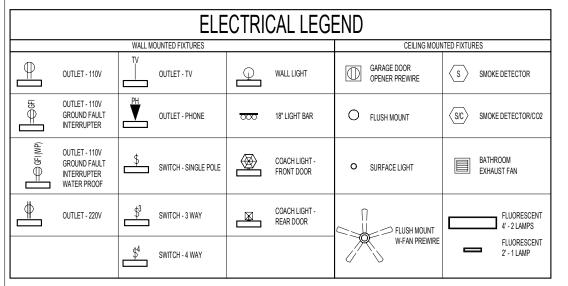
Plan Version Date:

2-2-21

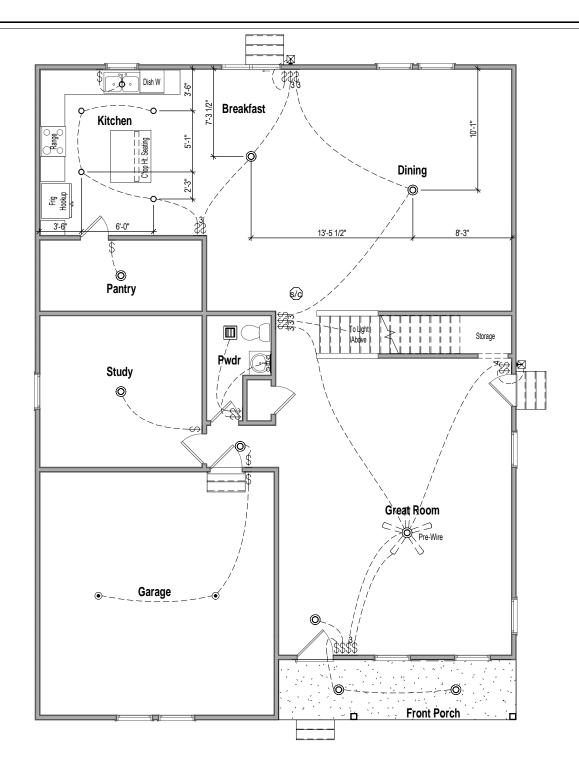
Job Version Date: 8-22-22



2 2nd Floor Electrical 1/8" = 1'-0"



Outlets shown on the electrical layout are in addition to the outlets that shall be provided in accordance with International Residential Code Sections E3901.2 through E3901.11.



1 1st Floor Electrical
1/8" = 1'-0"

GREENE - Elevation A

Electrical Plan

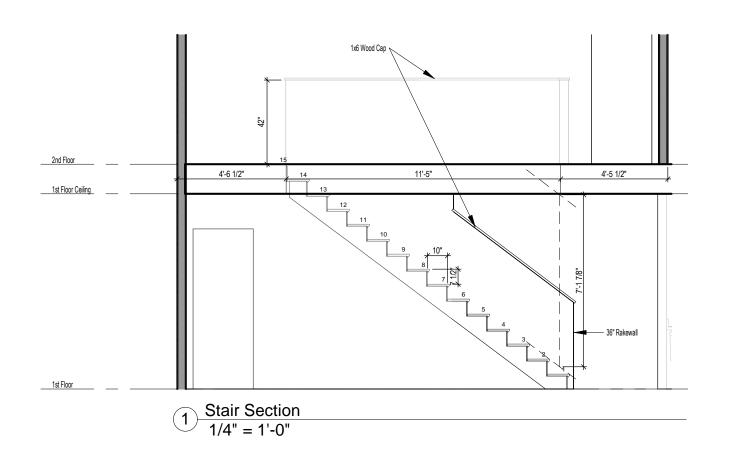
**ueBuild** 

enhaven School Rd. rd, NC 27332

Address Sar Harren

lan Version Date 2-2-21

Job Version Date: 8-22-22





GREENE - Elevation A

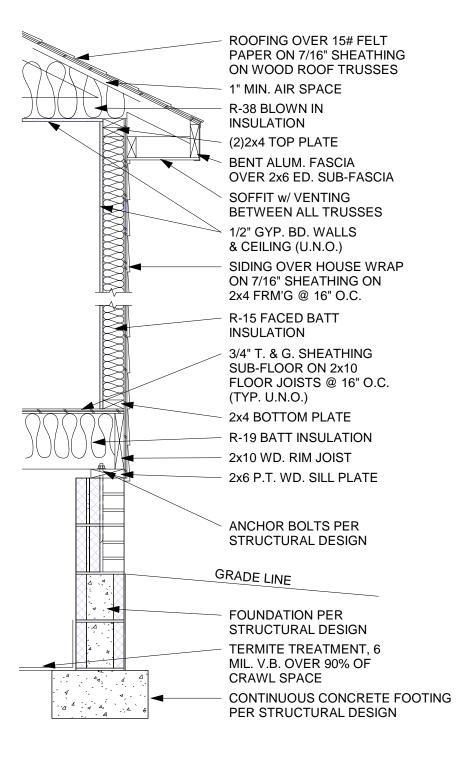
Sections

ess: Benhaven School Rd. Iford, NC 27332

Plan Version Date: 2-2-21

Job Version Date:

8-22-22



Typical Wall Section - Brick Fnd 1/64" = 1'-0"



**Elevation A** GREENE .

Typical Wall Section

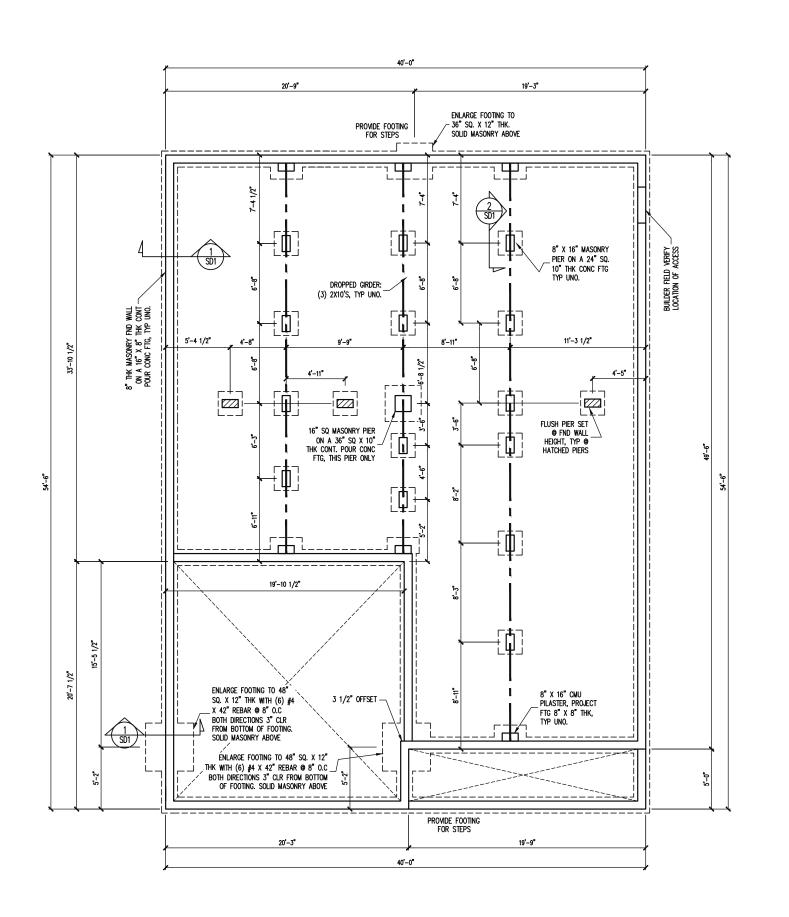
Address: 754 Benhaven School Rd. Sanford, NC 27332

Plan Version Date:

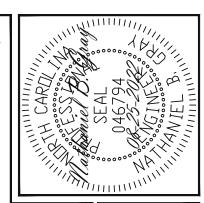
2-2-21

Job Version Date: 8-22-22

Sheet #: Sec-Crawl/Brick



The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



Ingineering	arin d
	STRUCTURAL ENGINEERS
	License No. C-3870
	318 W Millbrook, Suite 201
<u></u>	Sech Raleigh, North Carolina 27609
ASSOCIATES, P.A.	TES, P.A. Phone (919) 844-1661

OMES	ENDUM	REV 1 NBC/EAF 08-25-2022			
VALUE BUILD HOMES	STRUCTURAL ADDENDUM	754 BENHAVEN SCHOOL RD	SANFORD, NC	JOB# 23-17-09 NEALY	
	SCOPE	၁၀1			
ENG: NBG/EAF					

DATE: 07-25-2022

PLAN

GREENE A
PROJECT NO.

22-26-151\_259 SHEET NO.

FOUNDATION PLAN

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.

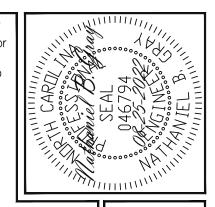
S1 1 of 7

SOLID BLOCKING

— AT POINT
LOADS, TYP. \_ (2) 2X10 BAND, TYP @ ACCESS DROPPED GIRDER:

(3) 2X10'S, TYP UNO. 3 SD1 (2) 2X10, CONTINUOUS FLUSH MASONRY
PIER. SET @ FND
WALL HEIGHT, TYP
@ HATCHED PIERS (3) 2X10 4" SLAB ON GRADE. SEE SPECS. 4"-SLAB\_ON-GRADE.") SEE SPECS.--

The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



	STRUCTURAL ENGINEERS	License No. C-3870	Sech Raleigh, North Carolina 27609	Phone (919) 844-1661
		<u></u>	Zech R	ASSOCIATES, P.A.
OMES	MDUM	REV 1 NBC/EAF 08-25-2022		
VALUE BUILD HOMES	STRUCTURAL ADDENDUM	754 BENHAVEN SCHOOL RD REV 1 NBG/EAF 08-25-2022	SANFORD, NC	JOB# 23-17-09 NEALY

ENG: NBG/EAF DATE: 07-25-2022

PLAN GREENE A

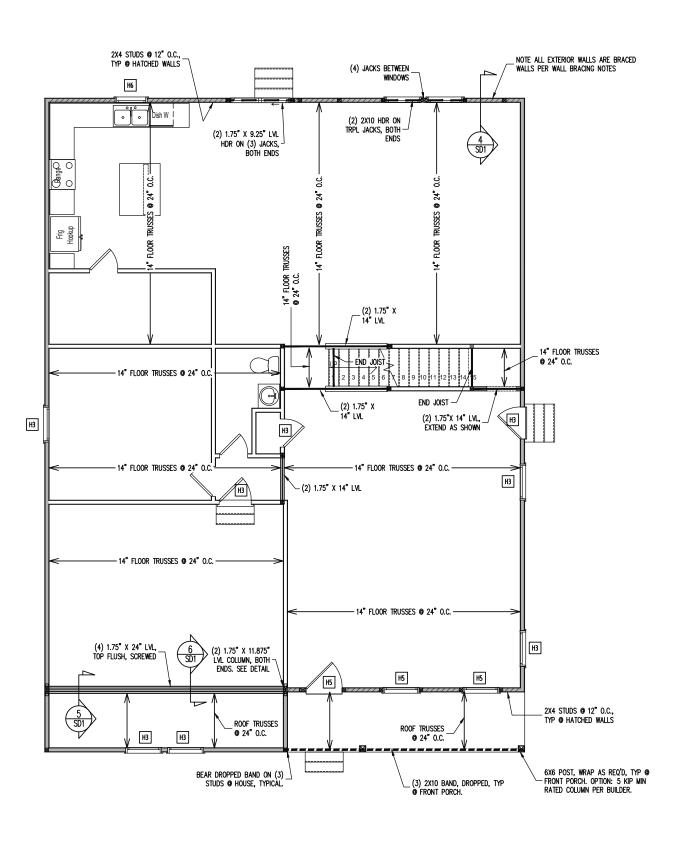
PROJECT NO. 22-26-151\_259

SHEET NO.

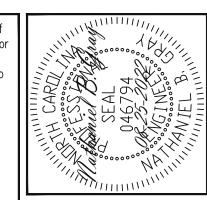
CRAWL SPACE FRAMING PLAN

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

2 of 7



The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



318 W

STRUCTURAL ADDENDUM

BENHAVEN SCHOOL RD

ENG: NBG/EAF

DATE: 07-25-2022

PLAN

**GREENE A** 

PROJECT NO.

22-26-151\_259 SHEET NO.

SANFORD, NC

VALUE BUILD HOMES

## 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

SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C.

NOTES: PROVIDED CONTINUOUS SHEATHING = 190' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

## HEADER SCHEDULE

- H2 (2) 2X4'S ON SINGLE JACKS (B)
- H3 (2) 2X8'S ON SINGLE JACKS (C)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
- H6 (2) 2X10'S ON DBL JACKS

(A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.

- 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

# 1ST FLOOR FRAMING PLAN

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

**S**3 3 of 7

SEE DETAIL / CONSTRUCTION SPECIFICATIONS

WALL BRACING

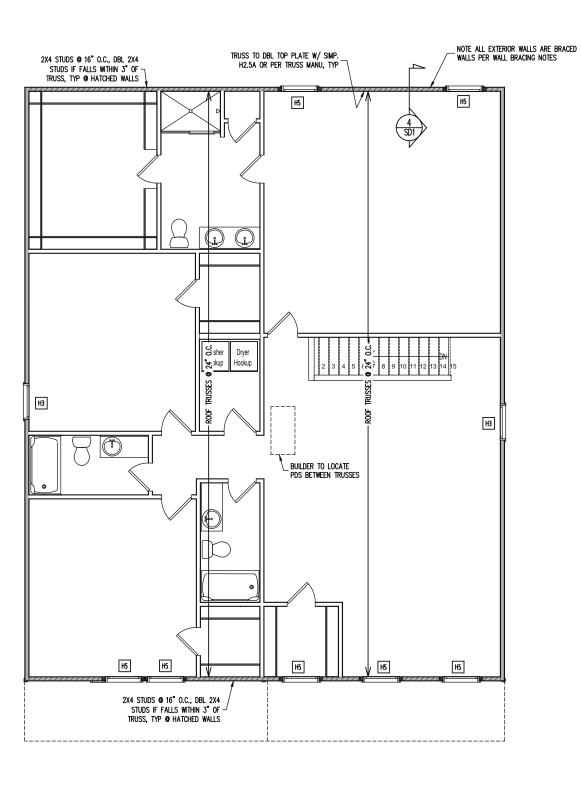
SHADED WALLS:

ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH IN PANEL FIELD.

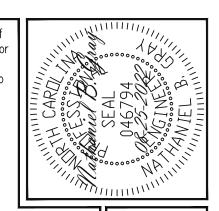
- H1 SINGLE 2X4 TURNED FLAT (A)

- H5 (2) 2X8'S ON DBL JACKS

- (B) TYPICAL FOR INTERIOR NON LOAD BEARING



The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



318 W

VALUE BUILD HOMES
STRUCTURAL ADDENDUM
FIN SCHOOL RD REV 1 NE

754 BENHAVEN SCHOOL RD

. 0

ENG: NBG/EAF DATE: 07-25-2022

**PLAN** 

**GREENE A** 

PROJECT NO.

22-26-151\_\_259 SHEET NO.

**S4** 

SANFORD, NC IOB# 23-17-09 NEAI

### 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

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.

- H2 (2) 2X4'S ON SINGLE JACKS (B)
- H3 (2) 2X8'S ON SINGLE JACKS (C)

- WALLS ONLY, ROUGH OPENING 38" 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''

4 of 7

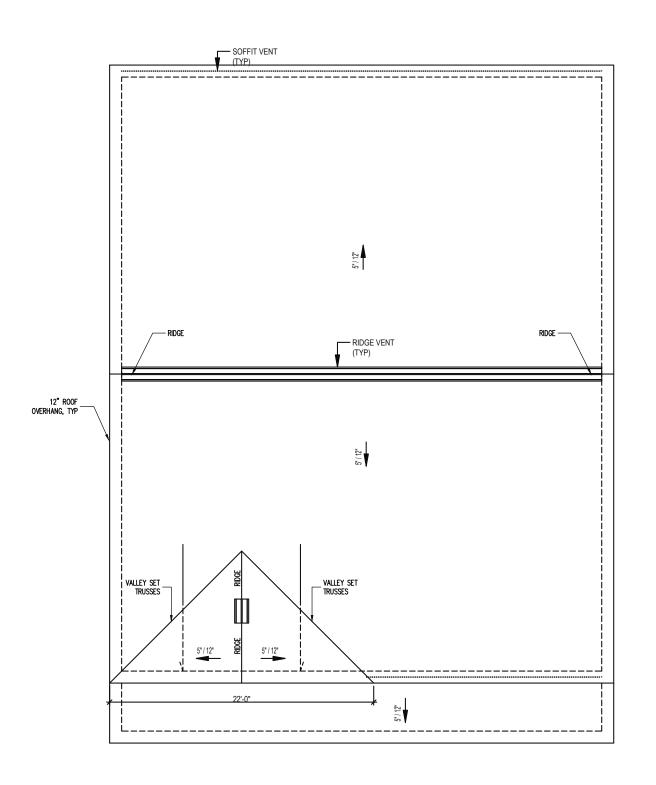
WALL BRACING

NOTES: PROVIDED CONTINUOUS SHEATHING = 180' MIN.

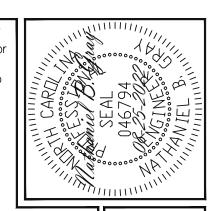
REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

## HEADER SCHEDULE

- H1 SINGLE 2X4 TURNED FLAT (A)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
- H5 (2) 2X8'S ON DBL JACKS
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING
- (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.



The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



OMES	MDDN	REV 1 NBC/EAF 08-25-2022			
VALUE BUILD HOMES	STRUCTURAL ADDENDUM	754 BENHAVEN SCHOOL RD	Old CaChildes	SANFORD, NC	

. 0

ENG: NBG/EAF

DATE: 07-25-2022

PLAN

**GREENE** A

PROJECT NO.

22-26-151\_\_259 SHEET NO.

# TRUSS UPLIFT CONNECTORS

### EXPOSURE B. 115 MPH. ANY PITCH 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

OVER 28'

(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

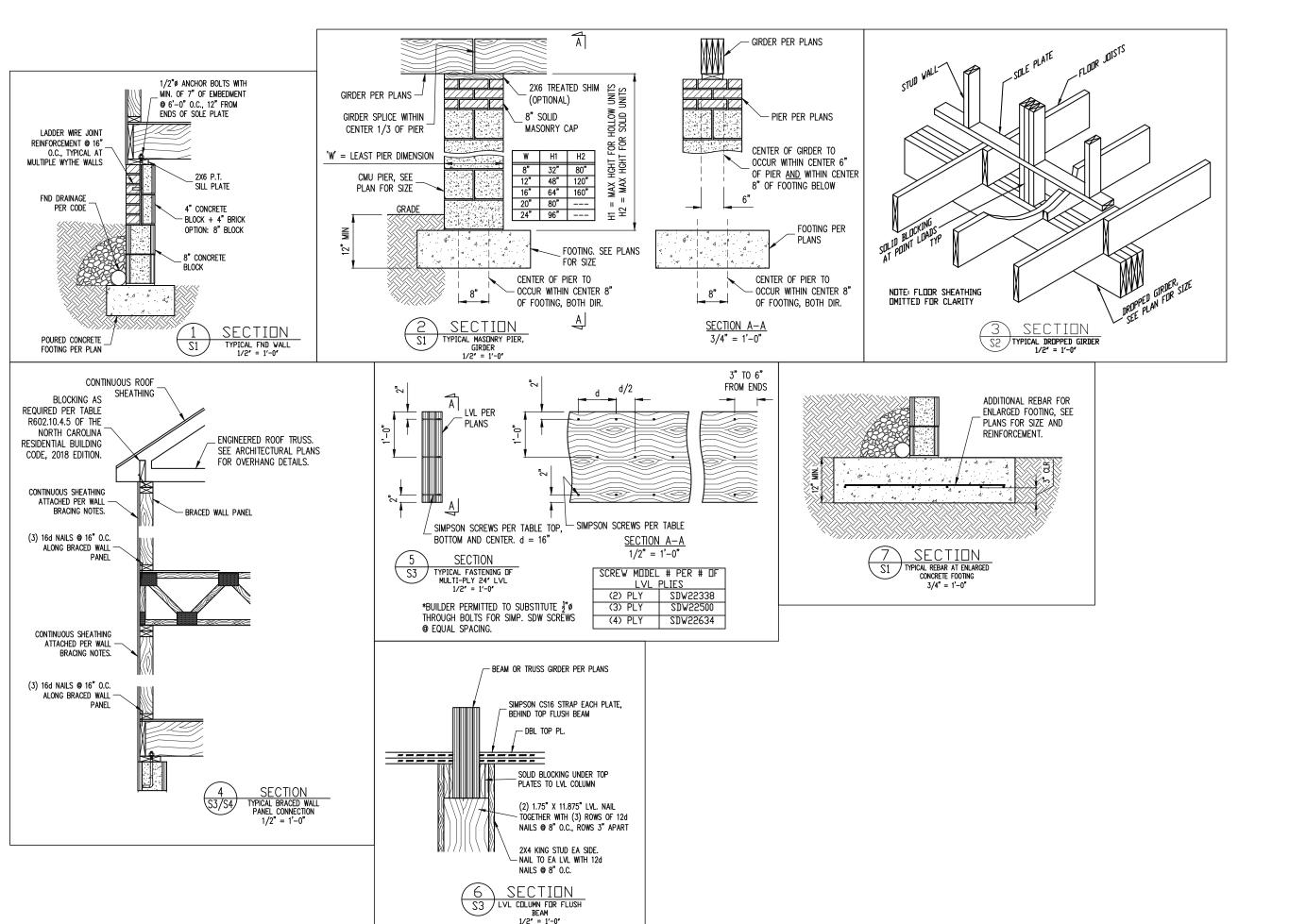
# FRAMING NOTES

ROOF ONLY

-ROOF TRUSSES PER MANUFACTURER, TYP U.N.O. -VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS, TYPICAL.

ROOF FRAMING PLAN

**S5** 5 of 7





STRUCTURAL ENCINERS
License No. C.3870
318 W Millbrook, Suite 201
ASSOCIATES, P.A. Phone (919) 844-1661

|2

OMES	ENDUM	REV 1 NBC/EAF 08-25-202			
VALUE BUILD HOMES	STRUCTURAL ADDENDUM	754 BENHAVEN SCHOOL RD	Old Cachiato	SANFORD, INC.	JOB# 23-17-09 NEALY
	SCOPE	: : : :			
EN	IC:	NB	iG/	Έ/	\F

DATE: 07-25-2022

PLAN GREENE A

PROJECT NO. 22-26-151\_259

SHEET NO.

6 of 7

# CONSTRUCTION SPECIFICATIONS

### PART 1: GENERAL

- CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE. 2018 EDITION.
- 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

DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

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
ROOF	20	10 (15 FOR VAULTS

LIVE LOAD (PSF) DEAD LOAD (PSF)

- INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTE 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 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
- INTERIOR WALLS: 5 PSF LATERAL.
- BASIC WIND DESIGN VELOCITY OF 115 MPH.
- SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE). 2.04

#### PART 3: STRUCTURAL STEEL

- WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM
- SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM 3.02
- STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE
- ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE
- STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL

#### PART 4: WELDING

WELDING ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER

### 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 INO
- REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION. 5.02
- 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 PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT

## PART 6: REBAR AND WIRE REINFORCEMENT

- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
- 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.

- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, 7.01 f'M = 1,500 PSI MIN
- 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW
- MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.
- MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530
- LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS

#### PART 8: BOLTS AND LAG SCREWS

- 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
- 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 F844-07a) FOR
- ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO

### 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

#### PART 10: DIMENSIONAL LUMBER

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

#### PART 11: ENGINEERED LUMBER

- LVL 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
- LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS

## 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 13: STEEL FLITCH PLATE BEAMS

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 USING 1/2" Ø\_BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. 13.01 MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 6" ± 2" FROM EACH END OF THE BEAM.

#### PART 14: STUD SUPPORTS FOR BEAMS

- 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 FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED 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, TYP UNO. 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 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED
- 14.02 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 FULL WIDTH 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
- 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 SIDUS 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 BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED FOR THE FULL WIDTH OF THE STUD COLUMN WITHIN THE CAVITY FORMED BY THE

### PART 15: NAILING OF MULTI PLY WOOD BEAMS

- SOLID 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 AND BRACING

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 INTERMEDIATE 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.

MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, WITH SOLE PLATE AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2X4

2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO: 2X4 @ 16" O.C.: 11'-1 1/2" 2X6 @ 16" O.C.: 17'-0" 2X4 @ 12" O.C.: 12'-1 1/2" 2X6 @ 12" O.C.: 18'-8" DBL 2X4 @ 16" O.C.: 13'-4" DBL 2X6 @ 16" O.C.: 21'-0"

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 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED. ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED.
- -BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.
- -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 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 WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.

## PART 17: KING STUDS

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

	NUMBE	R OF KIN	IG STUDS	
H 5'-0"	9'-0"	13'-0"	17'-0"	21'-0
1	2	3	4	5
1	1	2	2	2
1	1	1	1	2
	<u>'H 5'-0"</u> 1 1 1			NUMBER OF KING STUDS H 5'-0" 9'-0" 13'-0" 17'-0" 1 2 3 4 1 1 2 2 1 1 1 1

## PART 18: SUBSTITUTIONS

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

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

SEAL ON SEAL OF SEAL O YAN] ह्र Carolina 27( (919) 844-1

STUD POCKET S NOTED WISE JOIST

FOUNDATION
FOOTING
HOT DIPPED
GALVANIZED
HANGER
LUMBIRR
NOT TO SCALE
ON CENTER
PARALLEL STRAN
LUMBIRR
PRESSURE TREAT
QUAD JOIST
STUD POCKET
SQUARE

SE/

ABOVE
BOTH ENDS
BETWEEN
CAST IN PLACI
CONCRETE
CONTINUOUS SI
DIAMETER
DOUBLE
DOUBLE
DOUBLE
EQUAL
EACH
FLANGE
FLICH PLATE

ABV B.E. BTWN CONC CS DIA DIA DDA EQ EQ EA EA FLG 'L PL

SHALL N OF THE RIBUTED

₩ W

ure to Fi Further S Issued

to a failur The Eor. Fi Revisions I

any errors due ti Responsibility of ' Ensure than any Subcontractors

무용장器

OTHER

용盟

VENTING CALCULAT ) TO STRUCTURAL E

TION OR V

ORM NOT

PERF

NOT F THAT

THE EOR DOES N CALCULATIONS TH

Ы

₽ R R

ద

1 1 1 1

TO BE DESIGNED TO SUBMITTED 1

AND FLOOR TRUSSES DRAWING SHOULD BE

LT TYP TYP UNO UNO X

 $\mathcal{O}$ 

 $\ll$ 

 $\alpha$ 

 $\overline{\mathbf{m}}$ 

 $_{\Omega}$ 

문문을

IG PLANS PRIOR TO CC 3 OF RECORD (EOR) BI OR DURING CONSTRUC 4E SEAL OF THE EOR INCOMPLETE INFORMATI

CINEER CEFORE OF

浜볶

Builder is re? L immediately

 $\overline{\mathbf{O}}$ 

OR DURING HE SEAL OF INCOMPLETE

VG CONDITIONS ARE WORKING PLANS I PLANS CONTAIN [

₹ 8

Structural addendum BUILD HOMES BENHAVEN SCHOOL VALUE SANFORD,

ENG: NBG/EAF DATE: 07-25-2022

**PLAN GREENE A** 

PROJECT NO. 22-26-151\_259

> SHEET NO. **SPECS** 7 of 7