

2nd Floor
1st Floor Ceiling

____1st Floor

Rear - Elev A 1/8" = 1'-0"

Area Schedule (Elevation A)				
Name	Area			
Heated				
1st Floor	1049 SF			
2nd Floor	719 SF			
	1768 SF			
Unheated				
Front Porch	38 SF			
Garage	400 SF			
	438 SF			

2nd Floor

1st Floor Ceiling

____ 1st Floor

MalueBuild

H O M E S

3015 Jefferson Davis Hww, Sanford, NC 27332

YADKIN - Elevation A

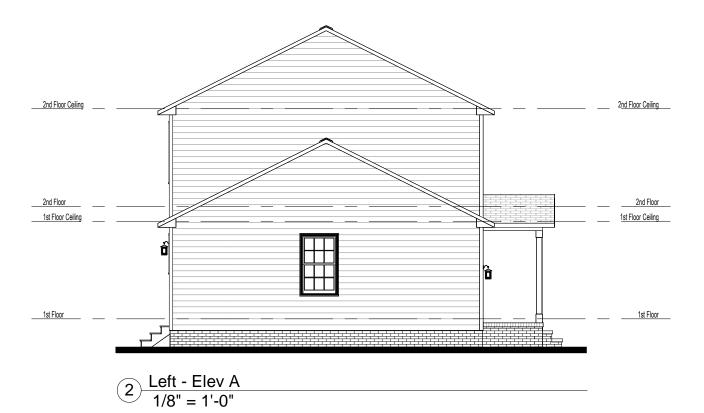
Front & Rear Elevations

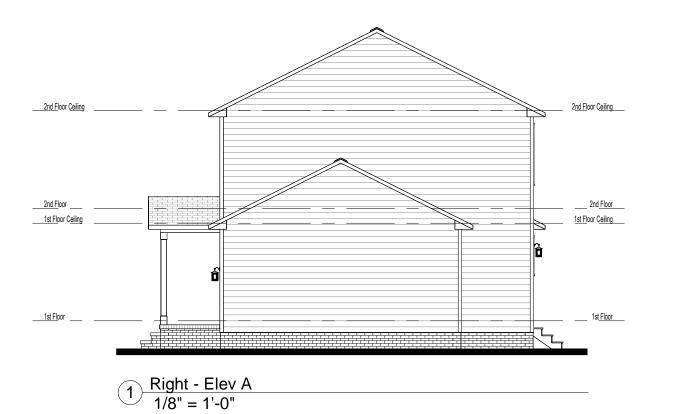
Job #: 23-63-09 Address: 16581 Hwy. 27 West Sanford, NC 27332 County:

Plan Version Date:

2-3-21

Job Version Date: 11-13-22





YADKIN - Elevation A

Side Elevations

AalueBuild

O M E S

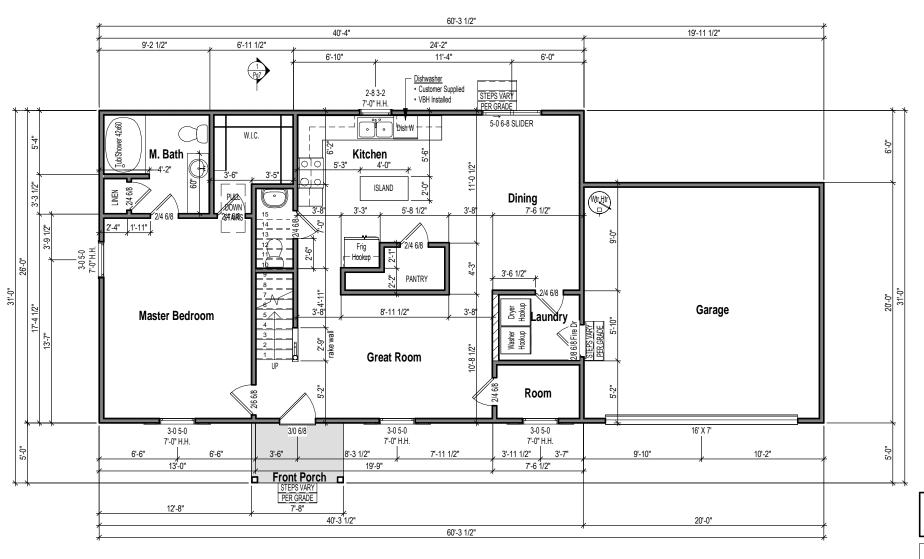
on Davis Hwy, Sanford, NC 27332

Job #: 23-63-09 Address: 16581 Hwy. 27 West Sanford, NC 27332

Plan Version Date: 2-3-21

Vorsion Da

Job Version Date: 11-13-22



1 1st Floor Plan - Elev A 1/8" = 1'-0" <u>WALL STUD SIZES</u> ==== = 2x4 ==== = 2x6

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

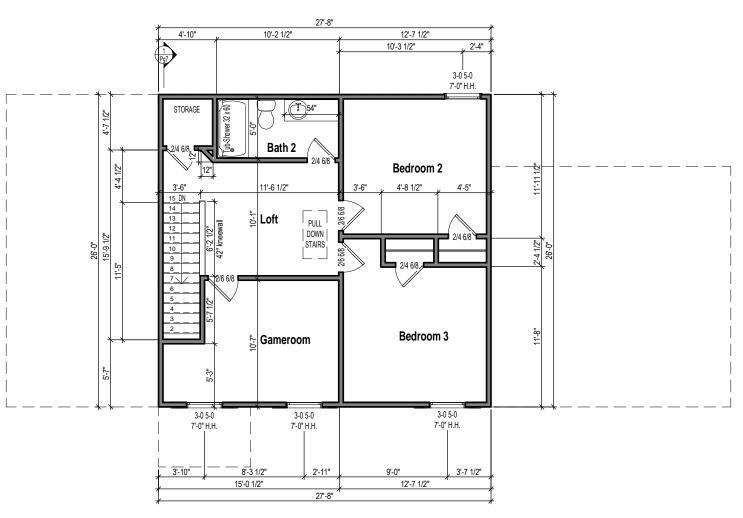
Walue Build

YADKIN - Elevation A
1st Floor Plan

Address:
16581 Hwy. 27 West
Sanford, NC 27332
County:

Plan Version Date: 2-3-21

Job Version Date: 11-13-22



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



YADKIN - Elevation A

2nd Floor Plan

6581 Hwy. 27 West anford, NC 27332

Plan Version Date:

2-3-21

Job Version Date: 11-13-22

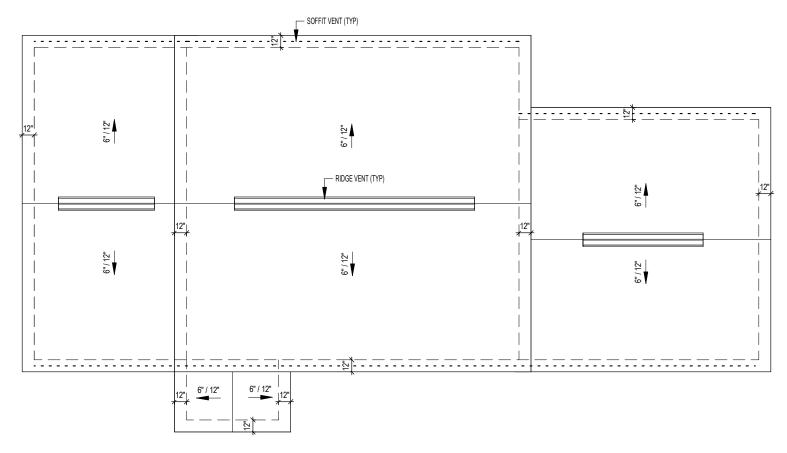
Attic Ventilation Calcs 1/300 (sq.in.)										
		Ventilation	Max	Min	Upper	Lower	Total	Ridge	Roof	Soffit
		Required	Upper	Upper	Ventilation	Ventilation	Ventilation	Vent	Vents	Vents
Name	Area	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(In.ft.)	(ea)	(sq.ft.)
Main Roof	831 SF	399	319	199	300	240	540	20	0	40
Over M. Bdrm	355 SF	170	136	85	120	144	264	8	0	24
Over Garage	483 SF	232	185	116	180	204	384	12	0	34

- 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"



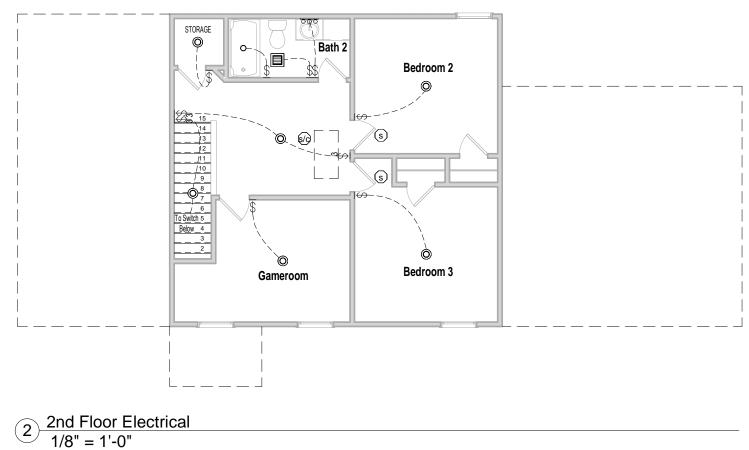
YADKIN - Elevation A

Roof Plan

Plan Version Date:

2-3-21

Job Version Date: 11-13-22



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

□ Front Porch □

ELECTRICAL LEGEND									
WALL MOUNTED FIXTURES						CEILING MOUNTED FIXTURES			
	OUTLET - 110V	OUTLET - T		GARAGE DOOR OPENER PREWIRE	0	KEYLESS	(\$)	SMOKE DETECTOR	
	OUTLET - 110V GROUND FAULT INTERRUPTER	PH OUTLET - F	PHONE 5000	18" LIGHT BAR	0	FLUSH MOUNT	(S/C)	SMOKE DETECTOR/CO2	
GFI (WP)	OUTLET - 110V GROUND FAULT INTERRUPTER WATER PROOF	\$ SWITCH-S	SINGLE POLE	COACH LIGHT - FRONT DOOR	0	SURFACE LIGHT		BATHROOM EXHAUST FAN	
	OUTLET - 220V	\$3 SWITCH-3	B WAY	COACH LIGHT - REAR DOOR		FLUSH MOUNT		FLUORESCENT 4'-2 LAMPS	
		\$4 SWITCH - 4	I WAY		W-FAN PREWIRE		_	FLUORESCENT 2' - 1 LAMP	

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.



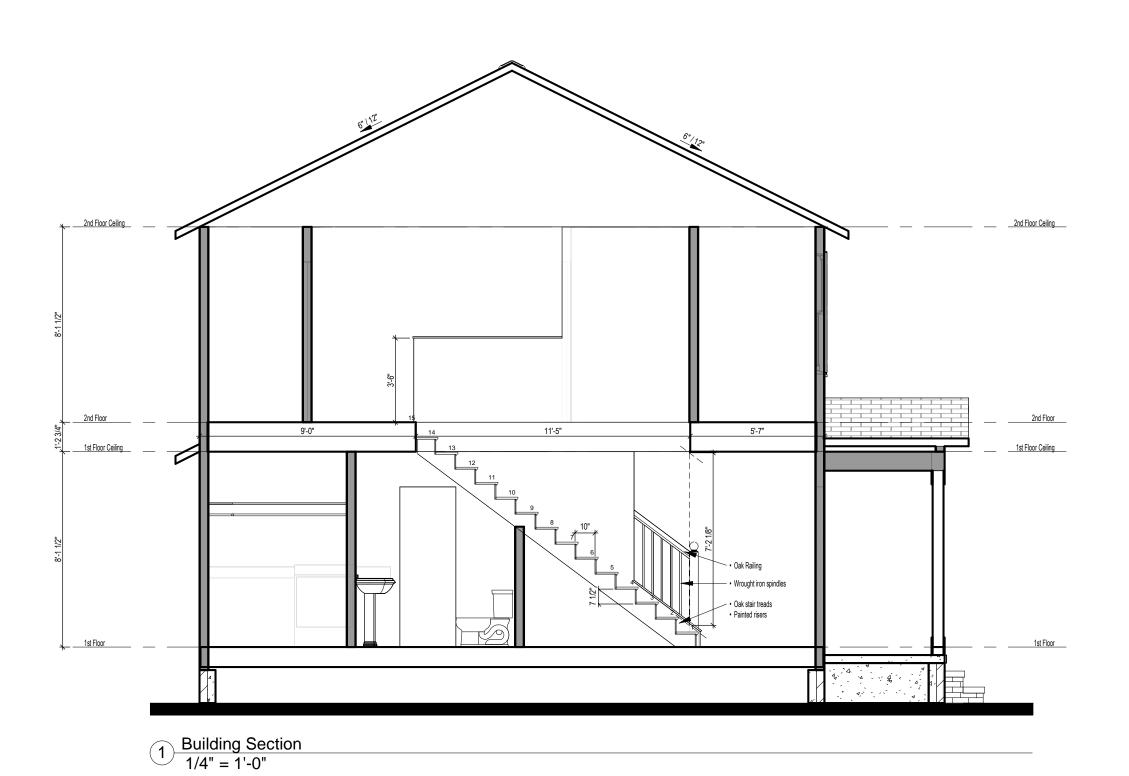
YADKIN - Elevation A

Electrical Plan

Job #: 23-63-09 Address: 16581 Hwy. 27 West Sanford, NC 27332

Plan Version Date: 2-3-21

Job Version Date: 11-13-22



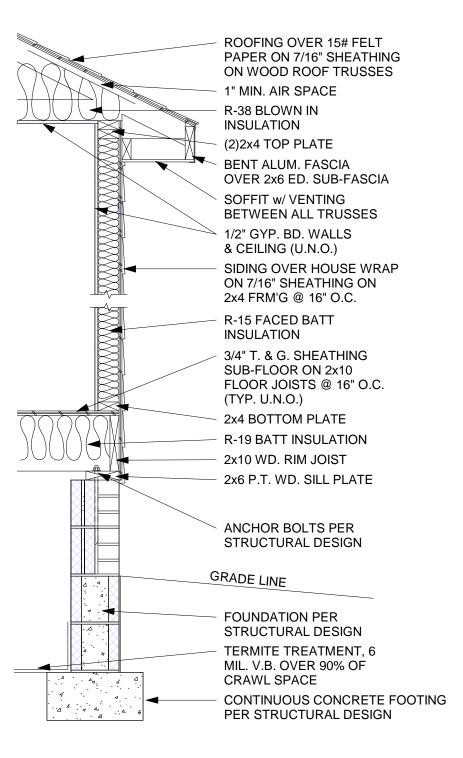
YADKIN - Elevation A

Sections

Plan Version Date: 2-3-21

Job Version Date:

11-13-22



Typical Wall Section - Brick Fnd

1/64" = 1'-0"



YADKIN - Elevation A

Typical Wall Section

Job#: 23-63-09 Address: 16581 Hwy. 27 West Sanford, NC 27332

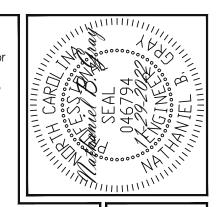
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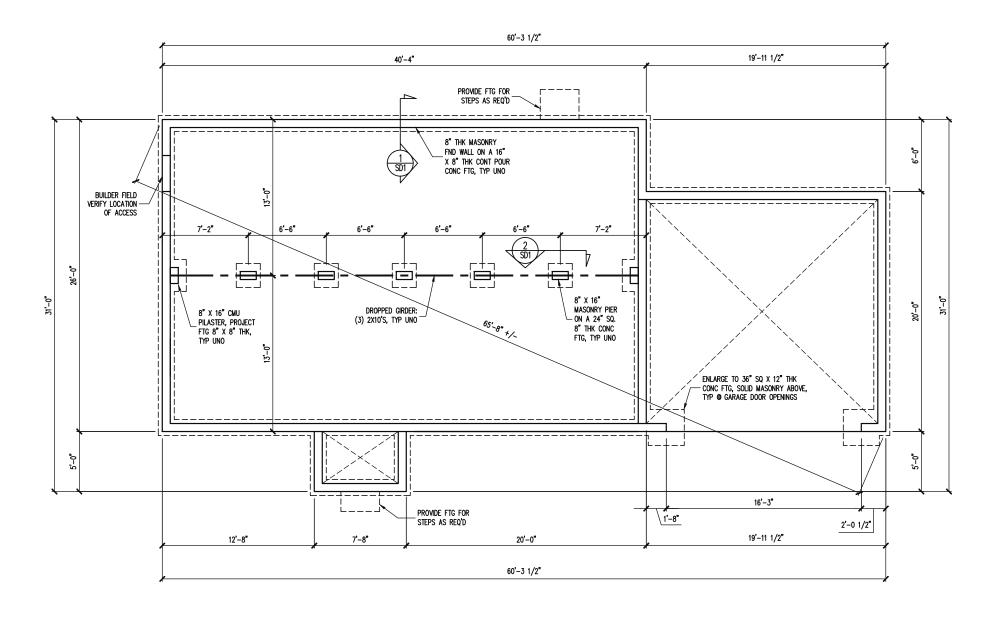
2-3-21

Job Version Date: 11-13-22

Sheet #: Sec-Crawl/Brick

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SCOPE STRUCTURAL ADDENDUM

LOC 16581 HWY 27 WEST

SANFORD, NC

SANFORD, NC

JOB# 23-63-9 WILLIAMS, DAVIS

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.

FOUNDATION PLAN

1/8" = 1'-0"

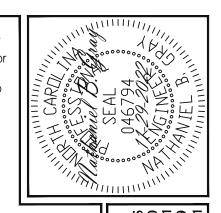
S1 1 of 7

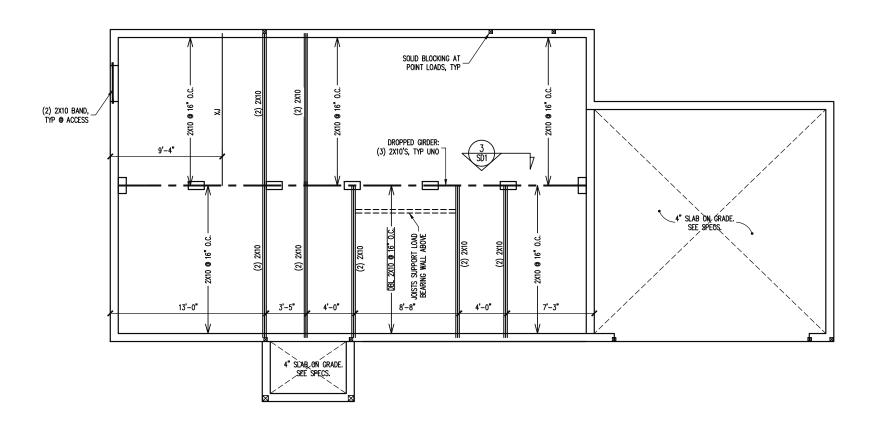
DATE: 11-29-2022 PLAN

YADKIN A
PROJECT NO.

22-26-195 SHEET NO.

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SCOPE STRUCTURAL ADDENDUM
LOC 16581 HWY 27 WEST
SANFORD, NC
JOB# 23-63-9 WILLIAMS, DAVIS

SCOPE
STRUCTURAL ADDENDUM
318 / ech
ASSOCIATES, P.A.

ENG: NBG/EAF DATE: 11-29-2022

PLAN YADKIN A

PROJECT NO. 22-26-195

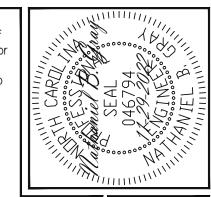
SHEET NO.

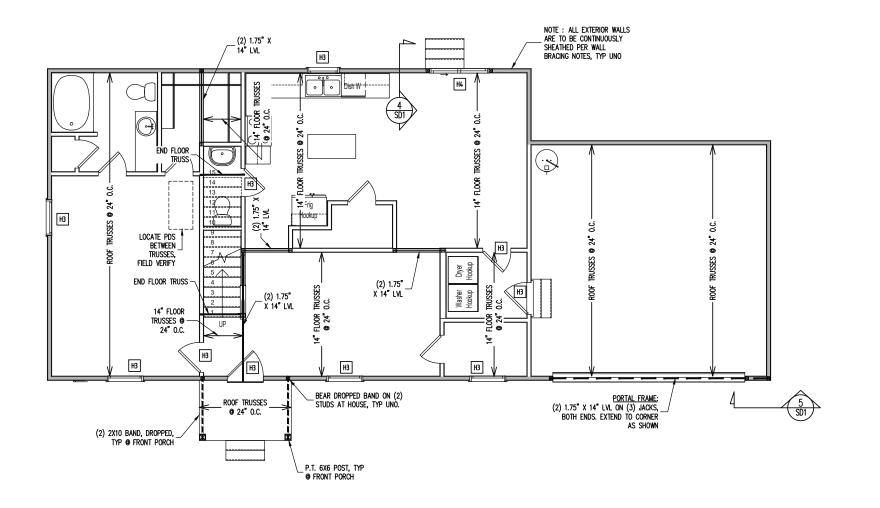
CRAWL SPACE FRAMING PLAN

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

S2 2 of 7

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REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 14: STUD SUPPORT FOR BEAMS

PART 17: KING STUDS FOR EXTERIOR WALLS

SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I—JOISTS ALLOWABLE SUBSTITUTIONS

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.

PROVIDED CONTINUOUS SHEATHING = 171' MIN.

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

- H1 SINGLE 2X4 TURNED FLAT (A)
- H2 (2) 2X4'S ON SINGLE JACKS (B)
- H3 (2) 2X8'S ON SINGLE JACKS (C)

IN (A) OR (B) UNO.

1ST FLOOR FRAMING PLAN

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

3 of 7

VALUE BUILD HOMES
STRUCTURAL ADDENDUM
16581 HWY 27 WEST

SANFORD, NC 3-63-9 WILLIAMS,

10C

ENG: NBG/EAF DATE: 11-29-2022

> PLAN YADKIN A

PROJECT NO.

22-26-195 SHEET NO.

S3

CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES

PART 1.01: CURRENT GOVERNING CODE

WALL BRACING

SHADED WALLS:

IN PANEL FIELD.

HEADER SCHEDULE

- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS

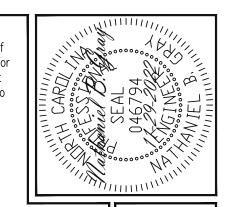
(A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.

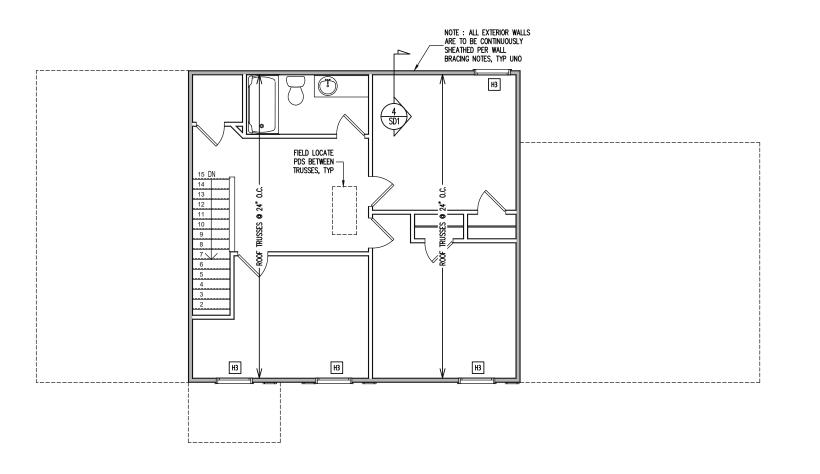
(B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.

(C) TYPICAL FOR ALL CONDITIONS NOT LISTED

NOTES:
-HEADERS IN NON LOAD BEARING INTERIOR
WALLS ARE NOT LABELED.

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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.

PROVIDED CONTINUOUS SHEATHING = 105' 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) 2X8'S ON SINGLE JACKS (C)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL 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"

4 of 7

VALUE BUILD HOMES
STRUCTURAL ADDENDUM
16581 HWY 27 WEST SANFORD, NC 3-63-9 WILLIAMS,

10C

ENG: NBG/EAF

DATE: 11-29-2022

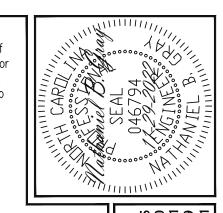
PLAN YADKIN A

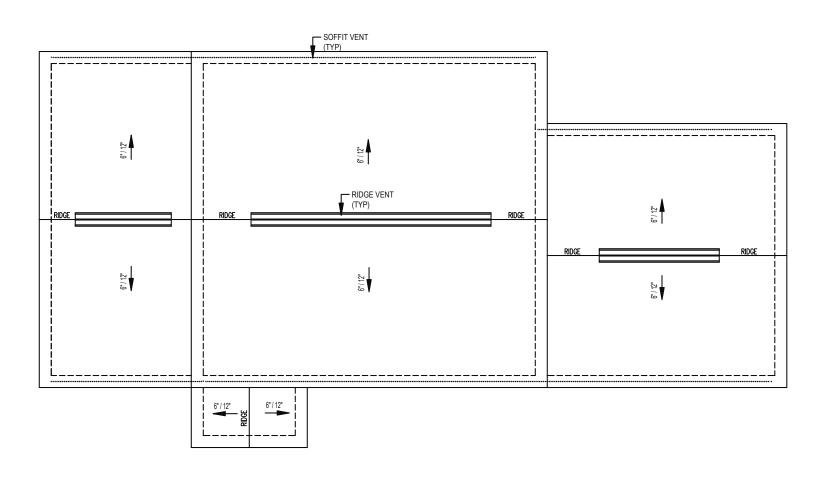
PROJECT NO.

22-26-195 SHEET NO.

S4

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TRUSS UPLIFT CONNECTORS

EXPOSURE B, 120 MPH, ANY PITCH 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES APAIL 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, KNEEWALS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 18'

(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

1/8" = 1'-0"

SHEET NO. **S5** 5 of 7

VALUE BUILD HOMES
STRUCTURAL ADDENDUM
16581 HWY 27 WEST

10C

ENG: NBG/EAF

DATE: 11-29-2022

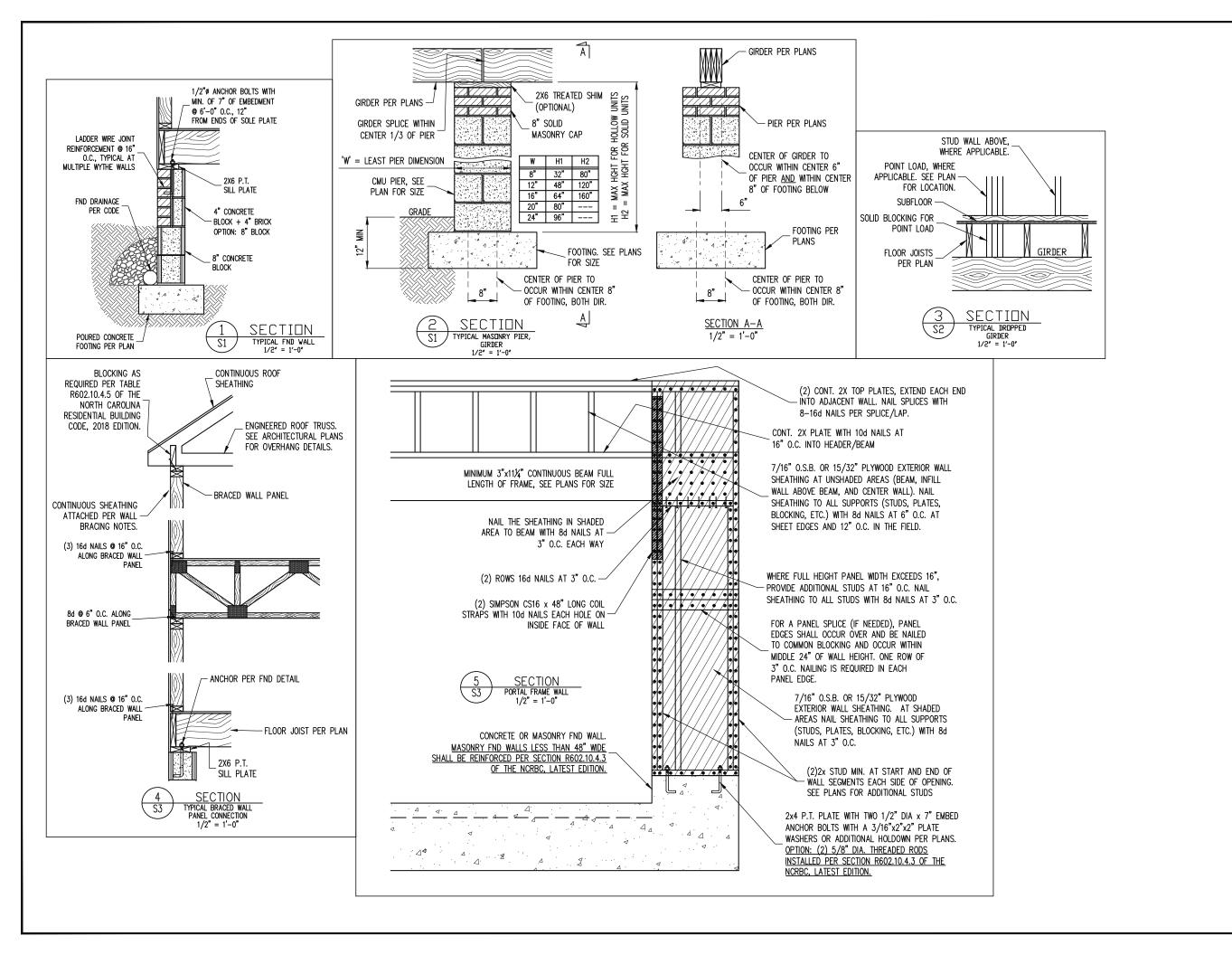
PLAN

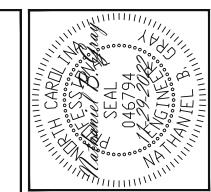
YADKIN A

PROJECT NO.

22-26-195

SANFORD, NC 3-63-9 WILLIAMS, I





Ingineering STRUCTURAL ENGINERS

LICENSE NO. C.3870

318 W MILLBROOK RD, SUITE 201

ech Raleigh, North Carolina 27609

SCOPE STRUCTURAL ADDENDUM

LOC 16581 HWY 27 WEST

SANFORD, NC

JOB# 23-63-9 WILLIAMS, DAVIS

ENG: NBG/EAF DATE: 11-29-2022

PLAN YADKIN A

PROJECT NO. 22-26-195

SHEET NO. SD1

6 of 7

CONSTRUCTION SPECIFICATIONS

PART 1: GENERAL

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

PART 2: DESIGN LOADS

DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW: USE

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)

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

PART 3: STRUCTURAL STEEL

- 3.01 WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM
- 3.02 SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM
- 3.03 STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE
- 3.04 ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE
- STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC 3.05 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 4.01 AWS CERTIFIED WELDER

PART 5: CONCRETE AND SLABS ON GRADE

- 5.01 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
- REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN 5.02 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 PROCTOR 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
- 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.

PART 7: MASONRY

- 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
- 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
- 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
- 8.03 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

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

PART 10: DIMENSIONAL LUMBER

10.01 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: 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

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 USING 1/2" Ø BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. 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 <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 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
- 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 <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 TYP UNO
- EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO 14.03 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 14.04 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 <u>FOR THE FULL WIDTH</u> OF THE STUD COLUMN WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS.

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 15.01 @ 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.
- 15.02 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP

PART 16: WALL FRAMING AND BRACING

16.01 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. -MAY SUBSTITUTE WSP FOR GB

-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

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

	NUMBE	R OF KIN	NG 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 18.01 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 ETÁ

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SN	TJ TRIPLE JOIST TYP TYPICAL TRPL TRIPLE TSP TRIPLE STUD POCKE UNO UNLESS NOTED OTHERWISE	XJ EXTRA JOIST			
ABBREVIATIONS	FND FOUNDATION FTG FOOTING HDG HOT DIPPED GALVANIZED HGR HANGER LVL LAMINATED VENEER	NTS NO.C. O	PT PRESSURE TREATED QJ QUAD JOIST SP STUD POCKET	SQ SQUARE	
	ABV ABOVE B. BOTH B.E. BOTH ENDS BTWN BETWEEN CIP CAST IN PLACE CONC. CONCRETE	CS CONTINUOUS SHEATHING DIA DIAMETER DBL DOUBLE DJ DOUBLE JOIST DSP DBL STUD POCKET		FL PL FLITCH PLATE FLR FLOOR	
	O CONSTRUCTION. THE BUILDER 3) BEFORE PROCEEDING IF THE TRUCTION: COR	CEDURES SHALL NOT BE THE MSIBILITY OF THE BUILDER TO PILY DISTRIBUTED TO THE	CULATIONS OR ANY OTHER JRAL ENGINEERING.	REGISTERED BY THE STATE. FINAL FL. PL AEW	

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ENG: NBG/EAF DATE: 11-29-2022

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