COLUMBIA COUNTY BUILDING COVER SHEET
STRUCTURAL ENGINEERING – NEW BARN

DESIGN SPECIFICATIONS

- DESIGN CODES:
  2023 FLORIDA BUILDING CODE (FBC) – RESIDENTIAL, EXISTING
  ASCE 7-22, NDS 2018, ACI 318-19, ACI 332-20, AWPA, AITC
  APA, ICC 600-20
- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS)
- DESIGN LOADS:

  ROOF LOADING:
  LL 20 PSF
  DL 12 PSF

  ROOF CONVENTIONAL FRAMING:
  LL 20 PSF RAFTERS
  LL 20 PSF CEILING JOISTS

  DL 10 PSF RAFTERS
  DL 10 PSF CEILING JOISTS

  DL 30 PSF ATTICS WITH STORAGE
  DL 10 PSF ATTICS W/O STORAGE

STRUCTURE HEIGHT & NO. OF STORIES

- MAXIMUM HEIGHT OF STRUCTURE (FT) 28
- NUMBER OF STORIES 1

TYPE OF CONSTRUCTION

- TYPE V-B
- UNPROTECTED
- UNSPRINKLERED

WIND ZONE INFORMATION

NOTE: THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF SECTION 1609 OF THE 2023 EDITION OF THE FLORIDA BUILDING CODE

THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION

- BUILDING: ENCLOSED STRUCTURE
- ULTIMATE DESIGN WIND SPEED (MPH – Vult) 130
- NOMINAL DESIGN WIND SPEED (MPH – Vasd) 101
- BUILDING RISK CATEGORY II
- WIND EXPOSURE CATEGORY C
- INTERNAL PRESSURE COEFFICIENT GCpi (+/-) 0.18

COMPONENTS & CLADDING PRESSURES

COMPONENTS & CLADDING PRESSURES (PSF)				
SIZE	INTERIOR ZONES		END ZONES	
	+	+	-	
0-20 sf	23.5	25.6	23.5	30.8
21-50 sf	22.0	24.1	22.0	27.8
51-100sf	21.0	23.0	21.0	25.6
> 100 sf	18.4	20.4	18.4	20.4

DIMENSION OF END ZONE IN FT. 4.0
END ZONE IS LOCATED AT BUILDING CORNERS

SHEET INDEX:

STRUCTURAL:

S1 ... COVER SHEET & GENERAL NOTES
S2 ... STRUCTURAL & FOUNDATION PLAN
S3 ... ROOF PLAN & DETAILS

FLORIDA PRODUCT APPROVAL:

STRUCTURAL:

CONNECTOR	TYPE	FL PRODUCT APPROVAL	
SDS	SCREW	9589.8	SIMPSON
SDWC	SCREW	13975.3	SIMPSON
MUS	HANGER	10531.2	SIMPSON
LUS	HANGER	10531.17	SIMPSON
HU	HANGER	10531.10	SIMPSON
MTS	STRAP	10456.12	SIMPSON
MSTA	STRAP	13872.4	SIMPSON
H2.5A	CLIP	10456.7	SIMPSON

1.0 GENERAL NOTES

A. IT IS THE INTENT OF THE ENGINEER OF RECORD THAT HIS WORK BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION AND OCCUPANCY. ALL CONTRACTORS ARE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTING AND SHALL DO THEIR WORK IN CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
B. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND EXISTING CONDITIONS TO THE ENGINEER OF RECORD IN WRITING PRIOR TO COMMENCING WORK.
C. CONTRACTOR SHALL SUPPLY, LOCATE, AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS, AND PITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.
D. THESE DOCUMENTS, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF THE ENGINEER OF RECORD AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN CONSENT BY THE ENGINEER OF RECORD.
E. ALL DETAILS SHALL BE IN ACCORDANCE WITH INSTRUCTIONS FROM MANUFACTURER OR DESIGNER.
F. THE OWNER SHALL PROVIDE CONTRACTOR WITH A SOIL INVESTIGATION REPORT AND ANALYSIS. ALL REQUIREMENTS FOR SITE PREPARATION AND SOIL COMPACTION SPECIFIED IN THE SOIL REPORT SHALL BE FOLLOWED UNLESS ADDITIONAL MORE STRINGENT REQUIREMENTS ARE SPECIFIED. NOTIFY ENGINEER OF RECORD IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOIL EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR.
G. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.
H. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING THAT IS REQUIRED DURING CONSTRUCTION TO KEEP STRUCTURE SAFE AND PLUMB UNTIL THE ENTIRE STRUCTURE IS IN PLACE. BRACING SHOWN ON STRUCTURAL PLANS IS FOR COMPLETED STRUCTURE ONLY.
I. DESIGN IS VOID AFTER ONE YEAR FROM ORIGINAL DATE.
J. DO NOT SCALE. USE DIMENSIONS FROM ARCHITECTURAL PLAN.
K. SUBMITTALS FOR THIS PROJECT ARE REVIEWED ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. IT SHALL NOT INCLUDE REVIEW OF QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE ACCEPTANCE OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS NOT CLEARLY NOTED BY THE CONTRACTOR.

2.0 MATERIAL SPECIFICATIONS

CAST-IN-PLACE CONCRETE: SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH (F'C) OF 2500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE. ALL FOOTINGS SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. ALL CONCRETE OPERATIONS, INCLUDING BUT NOT LIMITED TO MIX DESIGN, MIXING, TRANSPORTING, PLACING, REINFORCING DETAILING AND PLACING, CURING, AND TESTING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS AND APPLICATION OF ACI 301-16, " SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
CONCRETE MASONRY UNITS: SHALL BE HOLLOW UNIT MASONRY IN ACCORDANCE WITH ASTM C 90-14 "HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS" AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2000 PSI WHEN USING TYPE M OR S MORTAR (ASTM C 270-14A). IN ACCORDANCE WITH ACI 530 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES", THE 2000 PSI BLOCK IN COMBINATION WITH TYPE M OR S MORTAR PROVIDES A DESIGN COMPRESSIVE STRENGTH (F'M) OF 1500 PSI.
GROUT: SHALL BE IN ACCORDANCE WITH ASTM C 476-19 AND SHALL HAVE A MAXIMUM COARSE AGGREGATE SIZE OF 3/8" PLACED AT AN 8" TO 11" SLUMP AND HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C 1019-20.
REINFORCING STEEL: SHALL BE IN ACCORDANCE WITH ASTM A615 MINIMUM GRADE 40, AND CONFORMING TO ACI 301-16, ACI 315 ("MANUAL OF CONCRETE PRACTICE"), ACI 318 ("BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"), AND CRSI MANUAL OF STANDARD PRACTICE.
STRUCTURAL STEEL: ASTM A36-14 AND CONFORM TO AISC "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
STRUCTURAL PIPE AND STRUCTURAL TUBING: SHALL BE ASTM A500 (GRADE B).
WELDED WIRE FABRIC (WWF): SHALL BE ASTM A185-07.
ANCHOR BOLTS AND THREADED RODS: SHALL BE IN ACCORDANCE WITH ASTM A 307 OR ASTM F 1554 GRADE 36.
WASHERS: SHALL BE IN ACCORDANCE WITH ASTM F 436 GRADE 36.
NUTS: SHALL BE IN ACCORDANCE WITH ASTM A 563 GRADE A HEX.
ANCHORING ADHESIVE: SHALL BE ONE OF THE FOLLOWING PRODUCTS:
  SIMPSON STRONG-TIE CO., PRODUCT: SET-XP (CONCRETE, SOLID MASONRY)
  SIMPSON STRONG-TIE CO., PRODUCT: AT-XP (CONCRETE, SOLID MASONRY)
METAL CONNECTORS: ALL METAL CONNECTORS WHICH ARE EXPOSED TO MOISTURE SHALL BE GALVANIZED (ASTM A 153), Z-MAX, OR STAINLESS STEEL. METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE ZMAX IN WET ENVIRONMENTS AND STAINLESS STEEL IN COASTAL ENVIRONMENTS.

2.23 WOOD
A. ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE, OR SOIL SHALL BE PRESSURE-TREATED.
B. ALL FRAMING ANCHORS AND CONNECTORS SHALL BE SIMPSON OR EQUAL.
C. ALL PREFABRICATED STRUCTURAL TRUSSES SHALL BE CERTIFIED BY THE TRUSS MANUFACTURER'S REGISTERED ENGINEER.
2.2324 FASTENINGS
ALL FRAMING ANCHORS AND CONNECTORS SHALL BE MANUFACTURED BY SIMPSON OR EQUAL UNLESS OTHERWISE NOTED. ALL METAL CONNECTIONS AND FABRICATIONS SHALL COMPLY WITH AISC SPECIFICATIONS.
NAIL FASTENERS SHALL BE COMMON NAILS UNO.
2.2307.1 SILLS ON CONCRETE
WHERE SILLS ON CONCRETE ARE USED, TYPICAL ANCHOR BOLTS SHALL HAVE A MINIMUM DIAMETER OF 1/2" W/ 2X2X3/16 MINIMUM WASHER AND A MINIMUM EMBEDMENT OF 7" IN CONCRETE. ANCHOR BOLTS ARE REQUIRED AT THE FOLLOWING LOCATIONS:
  A MINIMUM OF (1) ANCHOR BOLT SHALL BE PROVIDED WITHIN 6 TO 12 INCHES OF EACH END OF EACH PLATE AND A MINIMUM OF (2) ANCHOR BOLTS PER PLATE.
  ANCHOR BOLTS SHALL BE LOCATED WITHIN 12" OF CORNERS AND OPENINGS & AT MAXIMUM SPACINGS OF 48" OC.
2.2307.6 SUBFLOORS
WHERE SUBFLOORING IS INDICATED IN THESE PLANS USE 3/4" T&G PLYWOOD GLUED WITH A CONSTRUCTION ADHESIVE AND FASTENED PER FBC – BUILDING.

3.0 CONSTRUCTION SPECIFICATIONS

3.18 FOOTINGS AND FOUNDATIONS
A. FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH FBC – BUILDING. THIS DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH PERTINENT STANDARDS AND ACCEPTED ENGINEERING DESIGN PROCEDURES, AND IS BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF COMPLETION. THE DESIGN IS INTENDED TO MINIMIZE DIFFERENTIAL MOVEMENT RESULTING FROM THE HEAVING OF EXPANSIVE SOILS OR SETTLING OF SUBSURFACE SOILS. IT MUST BE RECOGNIZED THAT FOUNDATION COMPONENTS WILL UNDERGO MOVEMENT. ANY SUBSEQUENT OWNERS SHALL BE APPRAISED OF THE SOIL CONDITION AND ADVISED TO MAINTAIN GOOD PRACTICES IN THE FUTURE WITH REGARD TO SURFACE AND SUBSURFACE DRAINAGE, FRAMING OF PARTITIONS ABOVE FLOOR SLABS, FINISH WORK ABOVE FLOOR SLABS, ETC.
B. FOOTINGS SHALL BEAR UPON UNDISTURBED SOIL OR UPON SOIL COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR A DEPTH OF AT LEAST (2) FEET BELOW FOOTING.
C. FILL UNDER CONCRETE SLABS SHALL BE CLEAN, FREE OF DEBRIS AND OTHER DELETERIOUS MATERIALS. FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557-07).
D. FILL SHALL BE TREATED WITH TERMITE PROTECTION BEFORE SLAB IS PLACED OR BORATE APPLIED TO WOOD FRAMING ABOVE SLAB.
E. A CONCRETE SLAB-ON-GRADE USED IN CONJUNCTION WITH THE EXTERIOR STEMWALL FOUNDATION, SHALL HAVE MINIMUM 6X6 W1.4XW1.4 WELDED WIRE FABRIC (WWF) OR FIBER REINFORCEMENT IN THE SLAB AND THE SLAB SHALL BE KEYED INTO OR TIED INTO THE FOUNDATION.
F. THE TOP OF A MONOLITHIC SLAB-ON-GRADE SHALL BE AT LEAST 8 INCHES ABOVE FINISHED GRADE. THE SLAB SHALL HAVE MINIMUM 6X6 W1.4XW1.4 WWF AT MID-HEIGHT OR SYNTHETIC FIBER REINFORCEMENT. A DOUBLE LAYER OF WWF 3 FEET WIDE SHALL BE PROVIDED AROUND THE PERIMETER OF THE SLAB FOR NO SYNTHETIC FIBER REINFORCEMENT.
G. VAPOR BARRIER SHALL CONSIST OF MINIMUM 6 MIL. POLYETHYLENE.
H. WHERE SUBSURFACE SOIL CONDITION INFORMATION IS NOT AVAILABLE, FOUNDATIONS HAVE BEEN DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
3.19 CONCRETE
A. CONCRETE AND STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH FBC-BUILDING CHAPTER 19.
MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS:
  CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
  CONCRETE EXPOSED TO EARTH OR WEATHER: #6 – #18 BARS 2", #5 BARS OR SMALLER 11/2"
  CONCRETE NOT EXPOSED TO WEATHER OR EARTH: PRIMARY REINFORCEMENT FOR BEAMS AND COLUMNS 1 1/2"
B. ALL CONTINUOUS REINFORCING STEEL IN BEAMS, COLUMNS, AND FOOTINGS SHALL BE LAPPED A MINIMUM OF 36 BAR DIAMETERS OR 25", WHICHEVER IS GREATER.
C. HORIZONTAL BEAM AND FOOTING BARS SHALL BE BENT 25" AROUND CORNERS OR CORNER BARS WITH A MINIMUM 25" LAP (UNO).
3.21 MASONRY
1. MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH FBC-BUILDING CHAPTER 21 AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR MASONRY STRUCTURES ACI 530.1. ACI LIMITS THE GROUT LIFT HEIGHT TO 12 FT AND REQUIRES A 1-HOUR INITIAL SET TIME BETWEEN LIFTS.
2. FOR MASONRY CONSTRUCTION, PROVIDE PRE-CAST CONCRETE LINTELS OVER ALL OPENINGS (UNO). LINTELS SHALL BE OF SUFFICIENT SIZE AND REINFORCEMENT FOR THE GIVEN SPAN LOADING CONDITIONS.

DOUGLAS VAN LUCAS
Digitally signed by DOUGLAS VAN LUCAS
Date: 2026.02.05 09:01:43 -05'00'

DOUGLAS VAN LUCAS LICENSE No 49489 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DOUGLAS VAN LUCAS ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REV. #	DESCRIPTION	DWG. DATE
1	FOOTING DETAIL	VML 2/4/26
2		
3		
4		
5		

LUCAS & SCOTT ENGINEERING, inc.
12507 SAN JOSE BLVD. SITE 603
JACKSONVILLE, FLORIDA
(904) 260-2690
FLORIDA CERTIFICATE OF AUTHORIZATION 9883

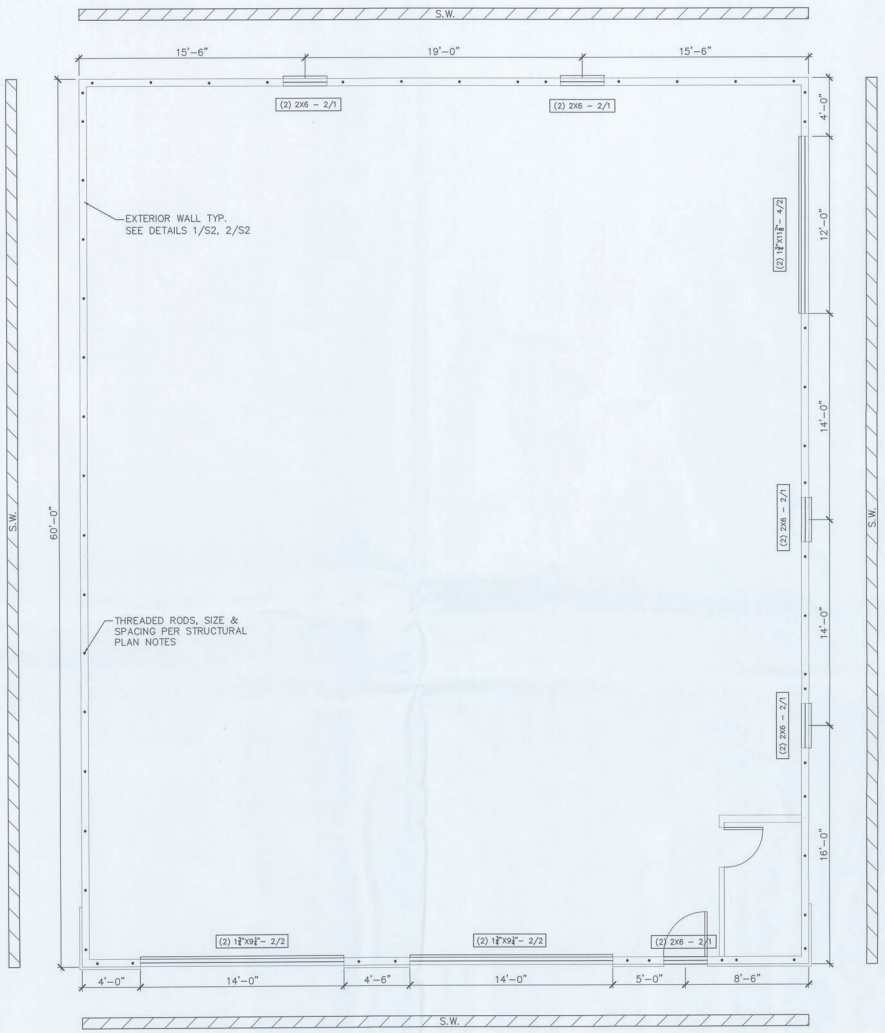
DOUGLAS V. LUCAS
FL PE No. 49489

COVER SHEET & GENERAL NOTES

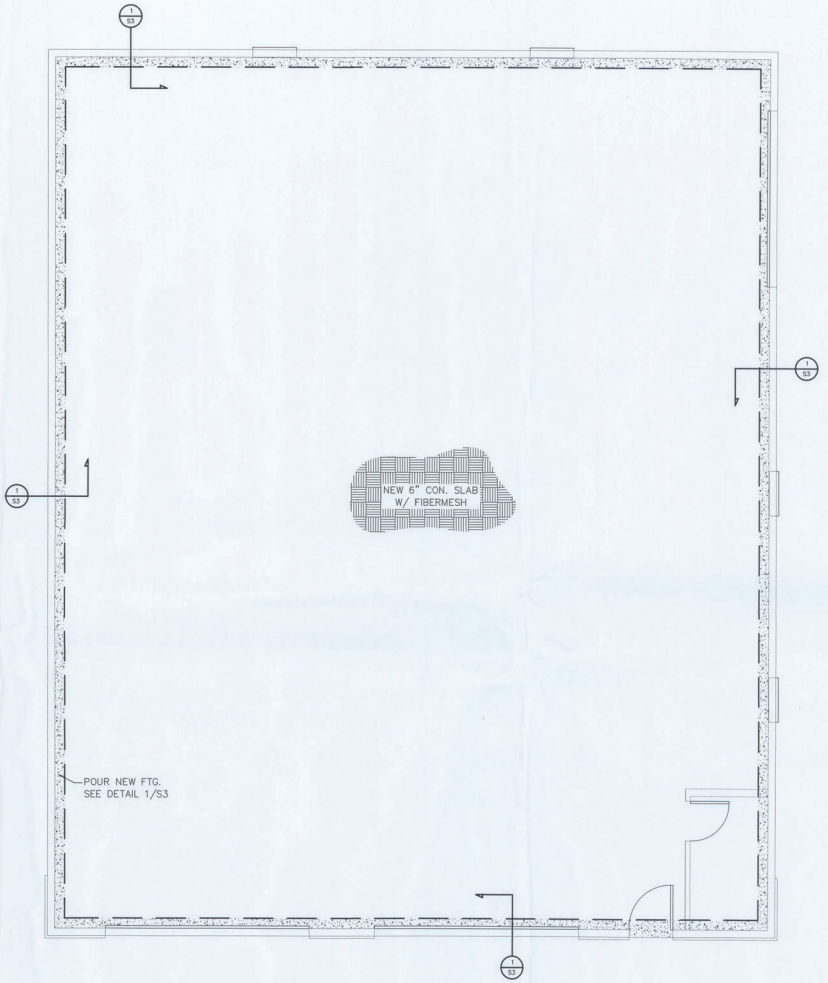
NORTHEAST FLORIDA DESIGN

NEW BARN
251 SW FENNIGAN WAY
LAKE CITY, FLORIDA

DRAWN BY: VML
DATE: 06/09/2025
SCALE: AS NOTED
DESIGNED BY: DVL
JOB NO.: 20251152
SHEET No.: S1 of 3



STRUCTURAL PLAN
¼"=1'-0"



FOUNDATION PLAN
¼"=1'-0"

STRUCTURAL PLAN NOTES:
THREADED ROD UPLIFT SYSTEM

1. USE ⅝" DIA THREADED ROD & COUPLER @ 18" ROD EPOXIED 7" MINIMUM. THREADED ROD SHALL BE A36 STEEL W/ MINIMUM 2x2x⅛" WASHER & NUT AT TOP PLATE. THREADED RODS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:
   A. 8" ADJACENT TO EACH CORNER
   B. 12" EACH SIDE OF WALL OPENINGS
   C. 48" IN FIELD BEARING WALLS THROUGHOUT
2. SHEARWALLS: SHEARWALLS ARE SHOWN. APA RATED ⅞" MINIMUM STRUCTURAL PANELS INSTALLED W/8d NAILS @ THE FOLLING:
   SW - 3" o/c EDGES & 6" o/c FIELD.
3. SHEARWALL HOLD-DOWNS:
   SHEARWALL CORNERS. STUDS TO FOUNDATION W/ ½" ø THREADED RODS.

HEADER / BEAM CALL-OUT LEGEND

(2) 2x6 -1/2

WHERE:
(2) NUMBER OF PLIES IN HEADER
2x6 SIZE OF HEADER MATERIAL
1 NO. OF JACK STUDS EA SIDE OPENING
2 NO. OF KING STUDS EA SIDE OPENING

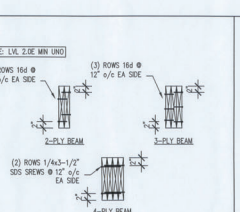
WALL HEIGHTS FOR:
130 MPH (Vult), ENCLOSED
BRITTLE FINISHES L/240

STUD	SPACING	GRADE / SPECIES	MAX HEIGHT
2x4	16" o.c.	#2 SPF	9'-1 1/8"
2x4	12" o.c.	#2 SPF	10'-1 1/8"
2x6	16" o.c.	#2 SPF	13'-7 1/8"
2x6	16" o.c.	#2 SYP	14'-7 1/8"
2x8	16" o.c.	#2 SYP	20'-7"
2x10	16" o.c.	#2 SYP	23'-0"

FLEXIBLE FINISHES L/120

STUD	SPACING	GRADE / SPECIES	MAX HEIGHT
2x4	16" o.c.	#2 SPF	10'-1 1/8"
2x4	12" o.c.	#2 SPF	11'-1 1/8"
2x6	16" o.c.	#2 SPF	16'-1 1/8"
2x6	16" o.c.	#2 SYP	17'-7 1/8"
2x8	16" o.c.	#2 SYP	23'-1 1/8"
2x10	16" o.c.	#2 SYP	26'-1 1/8"

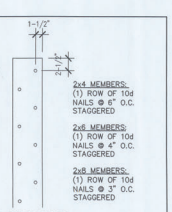
NOTE: LVL 2.0E MIN UNO



BUILT-UP BEAM DETAIL

BUILT-UP COLUMN NOTES:

1. TYPICAL CONNECTION FOR STUD COLUMNS, JACK TO KING STUD ASSEMBLIES, & CORNER POSTS.
2. CONNECTION REQUIRED FOR EVERY PLY IN ADDITION TO 2-PLYS.



2x4 MEMBERS:
(1) ROW OF 10d
NAILS @ 6" O.C.
STAGGERED

2x6 MEMBERS:
(1) ROW OF 10d
NAILS @ 4" O.C.
STAGGERED

2x8 MEMBERS:
(1) ROW OF 10d
NAILS @ 3" O.C.
STAGGERED

BUILT-UP COLUMN DETAIL

DOUGLAS VAN LUCAS
LICENSE
No 49489
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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12507 SAN JOSE BLVD., STE 603
JACKSONVILLE, FLORIDA
(904) 260-2950
FLORIDA CERTIFICATE OF AUTHORIZATION 9933

DOUGLAS V. LUCAS
FL PE No. 49489

STRUCTURAL & FOUNDATION PLAN

NORTHEAST FLORIDA DESIGN

NEW BARN
251 SW FENNIGAN WAY
LAKE CITY, FLORIDA

DRAWN BY: VML
DATE: 06/09/2025
SCALE: AS NOTED
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JOB NO.: 20251152
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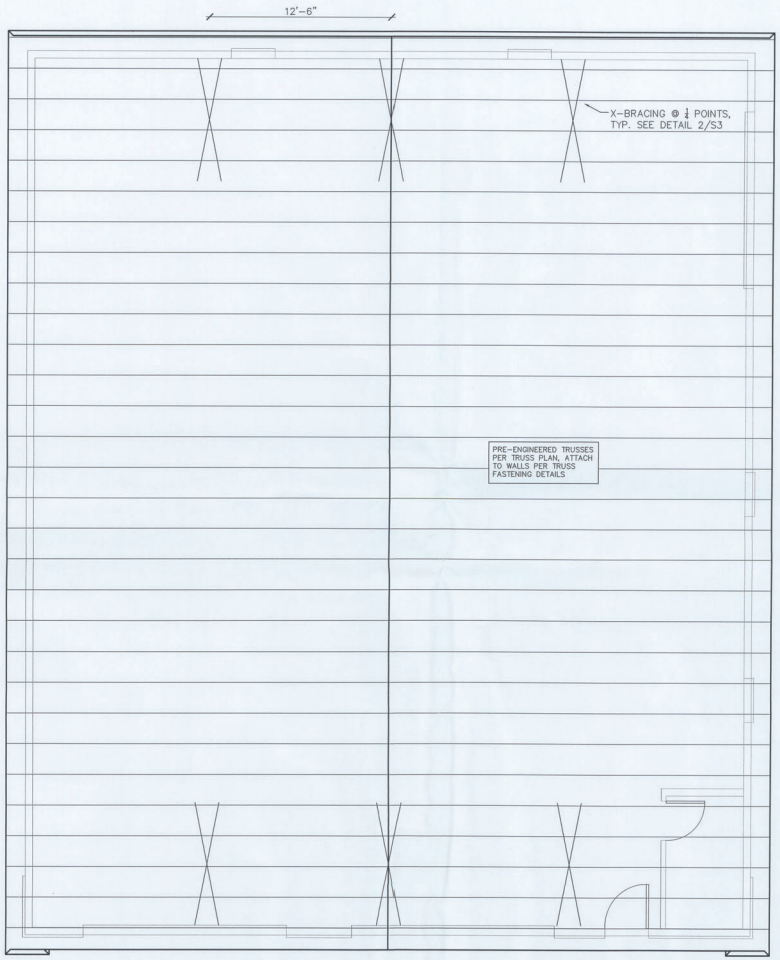
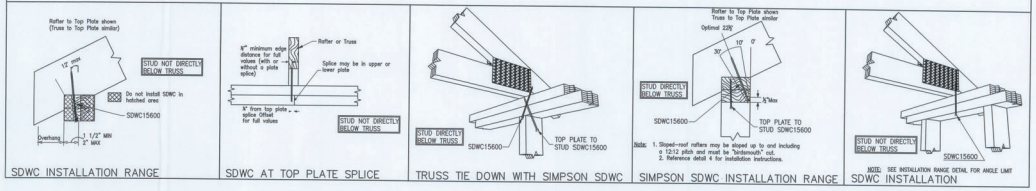


ROOF PLAN
¼"=1'-0"

ROOF PLAN NOTES:

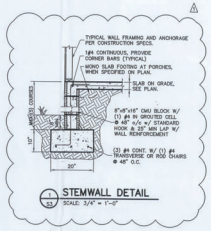
1. SCHEMATIC ONLY.
2. SHEATHING SHALL BE 15/32" MIN. APA RATED OSB ATTACH W/ 8d RINGSHANK NAILS 6" o/c EDGES & 6" o/c FIELD.
3. SHINGLES & UNDERLAYMENT PER ARCHITECTURAL.
4. FASCIA & SOFFIT PER ARCHITECTURAL WALL SECTION.

TRUSS FASTENING DETAILS

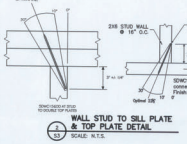


SDWC INSTALLATION RANGE | SDWC AT TOP PLATE SPLICE | TRUSS TIE DOWN WITH SIMPSON SDWC | SIMPSON SDWC INSTALLATION RANGE | SDWC INSTALLATION

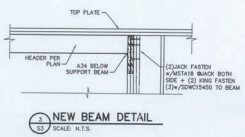
NOTE: SEE INSTALLATION RANGE DETAIL FOR ANGLE LIMIT



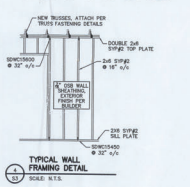
1 S3 STEMWALL DETAIL
SCALE: 3/4" = 1'-0"



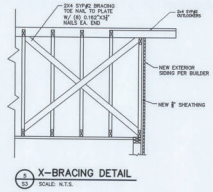
1 S3 WALL STUD TO SILL PLATE & TOP PLATE DETAIL
SCALE: N.T.S.



3 S3 NEW BEAM DETAIL
SCALE: N.T.S.



4 S3 TYPICAL WALL FRAMING DETAIL
SCALE: N.T.S.



4 S3 X-BRACING DETAIL
SCALE: N.T.S.

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LUCAS & SCOTT ENGINEERING, INC.
1000 A1A NORTH, SUITE 403
JACKSONVILLE, FLORIDA
(904) 285-2080
FLORIDA CERTIFICATE OF AUTHORIZATION 9933

DOUGLAS V. LUCAS
FL PE No. 49489

ROOF PLAN & DETAILS

NORTHEAST FLORIDA DESIGN

NEW BARN
251 SW FENNIGAN WAY
LAKE CITY, FLORIDA

DRAWN BY	VML
DATE	06/09/2025
SCALE	AS NOTED
DESIGNED BY	DVL
JOB NO.	20251152
SHEET No.	S3 OF 3