STRUCTURAL PLANS FOR:

METAL FRAME GARAGE

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NOTES

- ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY "ENDINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JOS CONSULTING & DEBIGN, PLIC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVALTON FROM THE PLANS. ENDINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
- 3. PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
 - A. IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
 - PLACED IN EFFECT BY THE MUNICIPALITY.

 B. IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN
 SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME
 USE FOR THE LOT OR ADDRESS SPECIFIED ON THE

CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE

ENGINEER OF RECORD

JDS CONSULTING & DESIGN, PLLC
ENGINEERING, BUILDING DESIGN, & CONSTRUCTION
CONSULTING SERVICES
8600 'D' JERSEY COURT
RALEIGH, NC 27617
FIRM LIC. NO: P-0961
PROJECT REFERENCE: 19900394



P-0961



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JDS CONSULTING & DESIGN IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MAD IN THE TELLD BY PLANS MAD IN THE TELLD BY OBEA WINGS ARE PROVIDED TO CLIENT FOR THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMESSIONS SHALL GOVERN OVER.

LLY RD. SANFORD, NC

1770 THOMAS KELLY
OCATION
NORTH CAROLINA

19900394

04/02/2019

TITLE SHEET

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NOTE: ALL CHAPTERS SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE RESIDENTIAL CODE (SEE TITLE SHEET).

GENERAL

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS CONSULTING & DESIGN, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
- 2. BRACED-WALL DESIGN IS BASED ON SECTION R602.10 WALL BRACING, PRIMARY PRESCRIPTIVE METHOD TO BE CS-WSP. SEE WALL BRACING PLANS AND DETAILS FOR ADDITIONAL INFORMATION

ALL NON-PRESCRIPTIVE SOLUTIONS ARE BASED ON GUIDELINES ESTABLISHED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC

SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC PROVISIONS, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY.

DESIGN LOADS

ASSUMED SOIL BEARING-CAPACITY	2,000 PSF
	LIVE LOAD
ULTIMATE DESIGN WIND SPEED	115 MPH, EXPOSURE B
GROUND SNOW	15 PSF
ROOF	20 PSF
RESIDENTIAL CODE TABLE R301.5	LIVE LOAD (PSF)
DWELLING UNITS	40
SLEEPING ROOMS	30
ATTICS WITH STORAGE	20
ATTICS WITHOUT STORAGE	10
STAIRS	40
DECKS	40
EXTERIOR BALCONIES	60
PASSENGER VEHICLE GARAGES	50
FIRE ESCAPES	40
CHARDS AND HANDRAILS	200 (nounds, concentrated)

COMPONENT AND CLADDING LOADS, INCLUDING THOSE FOR DOORS AND WINDOWS, SHALL BE DERIVED FROM TABLES R301.2(2) AND R301.2(3) FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 35 FEET. LOCATED IN EXPOSURE B

ABBREVIATIONS		KS LVL	KING STUD COLUMN LAMINATED VENEER
	4	LAL	LUMBER
ABV	ABOVE ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFF	ALTERNATE	MECH	MECHANICAL
	BEARING	METR	MANUFACTURER
BRG		MIN	MINIMUM
BSMT		NTS	NOT TO SCALE
	CANTILEVER	OA	OVERALL
CJ	CEILING JOIST	OC	ON CENTER
CLG	CEILING	PT	PRESSURE TREATED
	CONCRETE MASONRY UNIT	R	RISER
CO	CASED OPENING	REF	REFRIGERATOR
	COLUMN	REG	
	CONCRETE	RO	ROUGH OPENING
	CONTINUOUS	RS	ROOF SUPPORT
D	CLOTHES DRYER	SC	STUD COLUMN
DBL		SF	SQUARE FOOT (FEET)
	DIAMETER		SHELF / SHELVES
DJ	DOUBLE JOIST		SHEATHING
DN	DOWN	SHW	
DP	DEEP	SIM	
DR	DOUBLE RAFTER	SJ	SINGLE JOIST
DSP		SP	
EA	EACH		SPECIFIED
EE	EACH END	SO	SQUARE
EQ	EQUAL	T	TREAD
EX	EXTERIOR	TEMP	TEMPERED GLASS
FAU	FORCED-AIR UNIT	THK	THICK(NESS)
FDN	FOUNDATION	TJ	TRIPLE JOIST
FF	FINISHED FLOOR	TOC	TOP OF CURB / CONCRETE
FLR	FLOOR(ING)	TR	TRIPLE RAFTER
FP	FIREPLACE	TYP	TYPICAL
FTG	FOOTING	UNO	UNLESS NOTED OTHERWIS
HB	HOSE BIBB	W	CLOTHES WASHER
HDR	HEADER	WH	WATER HEATER
HGR	HANGER	WWF	
JS	JACK STUD COLUMN	XJ	EXTRA JOIST
		X.J	EXTRA JOIST

MATERIALS

INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2 FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING

Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI

LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

PSI STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER

Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI

5. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI

- STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI
- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615. GRADE 60.
- POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN MERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM
- CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2
- 10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY
- 11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD
- 12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND, EQUIVALENT USP BRAND PRODUCTS ARE
- 13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SURSTITUTION OF MANUFACTURER SERIES.

FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2 000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS
- CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.
- MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTABLES AND/OR THE MASONRY SOCIETY PUBLICATION SPECIFICATIONS FOR MASONRY STRUCTURES
- CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3 AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SH COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
- A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
- B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
- PLAIN-MASONRY WALL DESIGN TO BE PER TABLE R404.1.1(1) OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
 - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL
 - SUPPORT AT THE TOP AND BOTTOM.
 WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
 C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER
- WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT 1/2 DIAMETER AUTON BOLLS WITH MINIMOM 7 ENDEDMENT.

 SPACED A MAXIMUM OF 5-0° CO AND WITHIN 12° FROM THE ENDS

 OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS

 PER SECTION. SEE SECTION R403.1.6 FOR SPECIFIC CONDITIONS.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL EXCEED TEN TIMES THEIR LEAST DIMENSION, UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION
- CENTERS OF PIERS TO REAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).
- 10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.
- FRAMING TO BE FLUSH WITH FOUNDATION WALLS.
- 12. WITH CLASS 1 SOILS VAPOR BARRIER AND CRUSHED STONE MAY

FRAMING

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
- ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO
- NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
- SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF
- 6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED
 - ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA, ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN
 - CONNECTION WITH 500# UPLIFT CAPACITY.
 ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 5008 UPLIFT CAPACITY.
 - C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND
- 7. ALL ENGINEERED WOOD PRODUCTS (LVL. PSL. LSL. ETC.) SHALL NSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS: SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND
 - COORDINATION BEFORE CONSTRUCTION.
 TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.

 - MANUFACTURER.
 INSTALLATION OF THE SYSTEMS SHALL BE PER
 MANUFACTURER'S INSTRUCTIONS.
 TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.
- ILL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d LS OR TWO 1/2" x 4" LAG SCREWS, UNO.
- 11. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.
- 12. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE
- 13. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL)
- 14. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.
- 15. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 O THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM



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A MINIMUM OF 3"x3"x14" PLATES SHALL BE WELDED AT 34" OC ALONG THE STEEL ANGLE. STEEL ANGLE WITH 16D NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4"

"81/8x"S\1-Ex"2 38 YAM

C, 3" FROM EACH END		OVER 72"
9. (MIN. @ EACH END)	L6~x4~x5/16** (LLV)	"ST OT 9U
8 (MIN. @ EACH END)	T3-1/5_X3-1/5X1/4	"SA OT 9U
END BEARING LENGTH	STEEL ANGLE SIZE	NAGE

SASTEM

UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR

PROVIDE H2.56 (MINIMUM) OR EQUIYALENT AT EACH RREAS, UNLESS NOTED OTHERWISE.

RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45" BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH COUNECTION.

WINIWOW 1/16" OSB ROOF SHEATHING

DENOTES OVER-FRAMED AREA

POINT LOADS. **РROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL**

2. FUR RIDGES FOR FULL RAFTER CONTACT.

RAFTERS, UNLESS NOTED OTHERWISE. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF

STICK-FRAMED ROOF - STRUCTURAL NOTES

SYSTEM.

SYSTEM.

TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.

6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH

МАМИРАСТИВЕВ ТО РВОУІDЕ ВЕQUIRED UPLIFT CONNECTION.

ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN COINCIDE WITH THE SUPPORT LOCATIONS SHOWN, TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.

4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO

DENOTES OVER-FRAMED AREA

MINIMUM 7/16" OSB ROOF SHEATHING

POINT LOADS. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL

TRUSSED ROOF - STRUCTURAL NOTES

ROOF SYSTEMS

7

CONDILION IN DISAMINGS.

d. FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR

LIMITED.

HEIGHTS WHERE TRADITIONALLY MILLED LUMBER LENGTHS ARE FINGER-JOINTED MEMBERS MAY BE USED FOR CONTINUOUS

STRAPPING (FULLY MAILED), CENTERED OVER THE WALL BREAK. b. WHEN SPLIT-FRAMED WALLS ARE USED FOR HEIGHTS OVER 12.

THE CONTRACTOR SHALL ADD 6 MINIMUM OF CS16 COIL

8. ALL HEIGHTS ARE MEASURED SUBPLOOR TO TOP OF WALL PLATE.

(z) 2x6 @ 12" OC (z) 2x6 @ 12" OC (z) 2x6 @ 15" OC
(S) 5×e @ 1e. OC
(S) 5×4 @ 15. OC
S) 2x4 @ 1e_ OC
2×8 @ 12" OC
2x8 @ 16" OC
2xe @ 15" OC
3×6 @ 16" OC
2x4 @ 15" OC
2x4 @ 16" OC

MAX HEIGHT (PLATE TO PLATE)
FRAMING MEMBER SIZE 115 MPH ULTIMATE DESIGN WIND SPEED

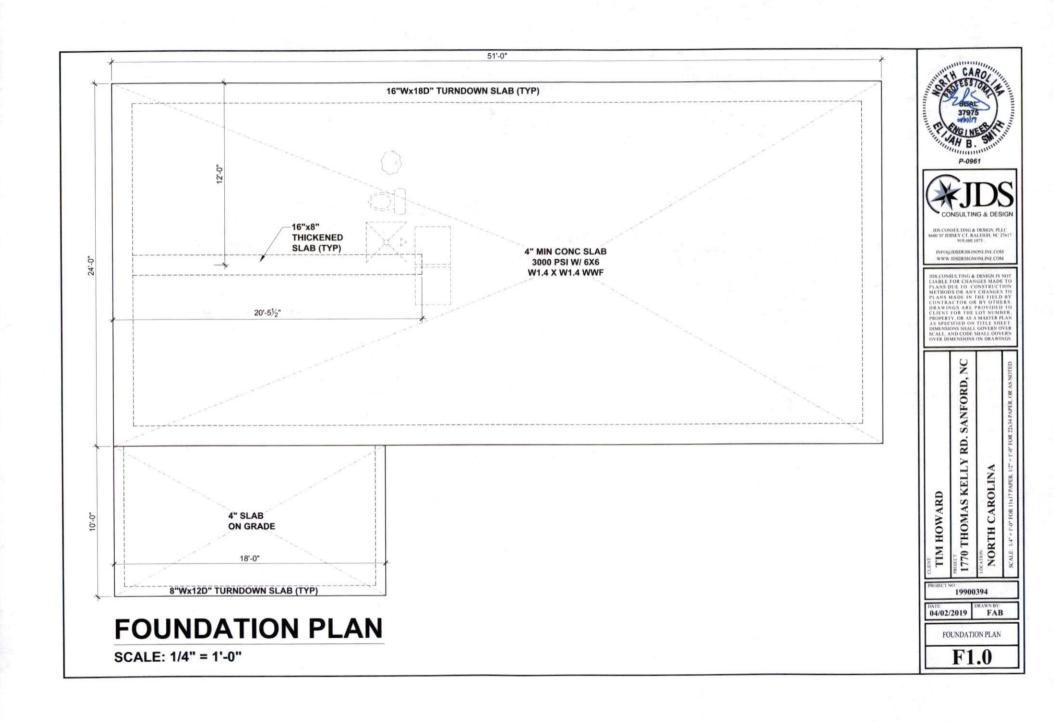
OTHERWISE ON THE FRAMING PLAN SHEETS) BALLOON WALL FRAMING SCHEDULE (USE THESE STANDARDS UNLESS NOTED

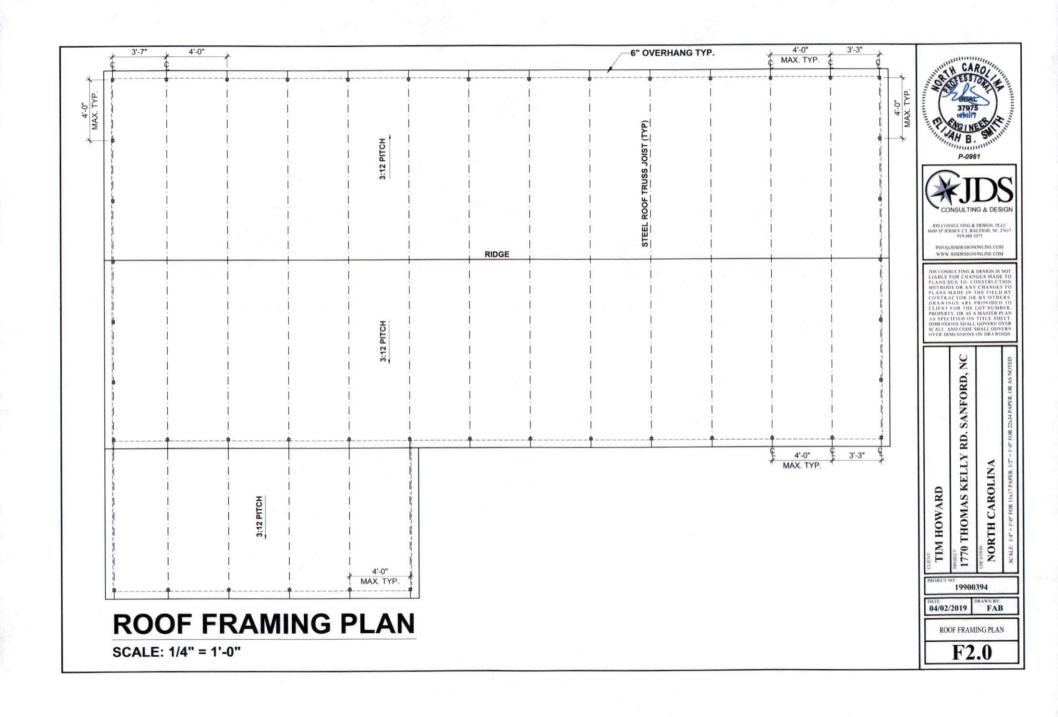
DETAILS AND NOTES ON DRAWINGS GOVERN.

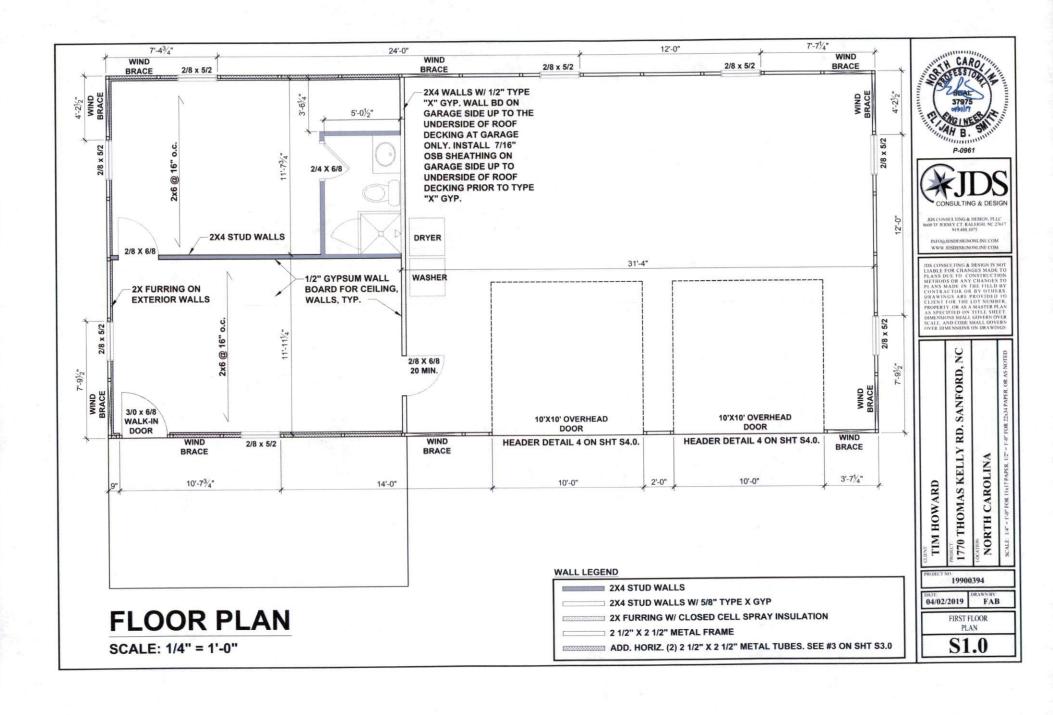
РАБТЕМІМО REQUIREMENTS. SEE TABLE R602.3(1) FOR ADDITIONAL STRUCTURAL-MEMBER

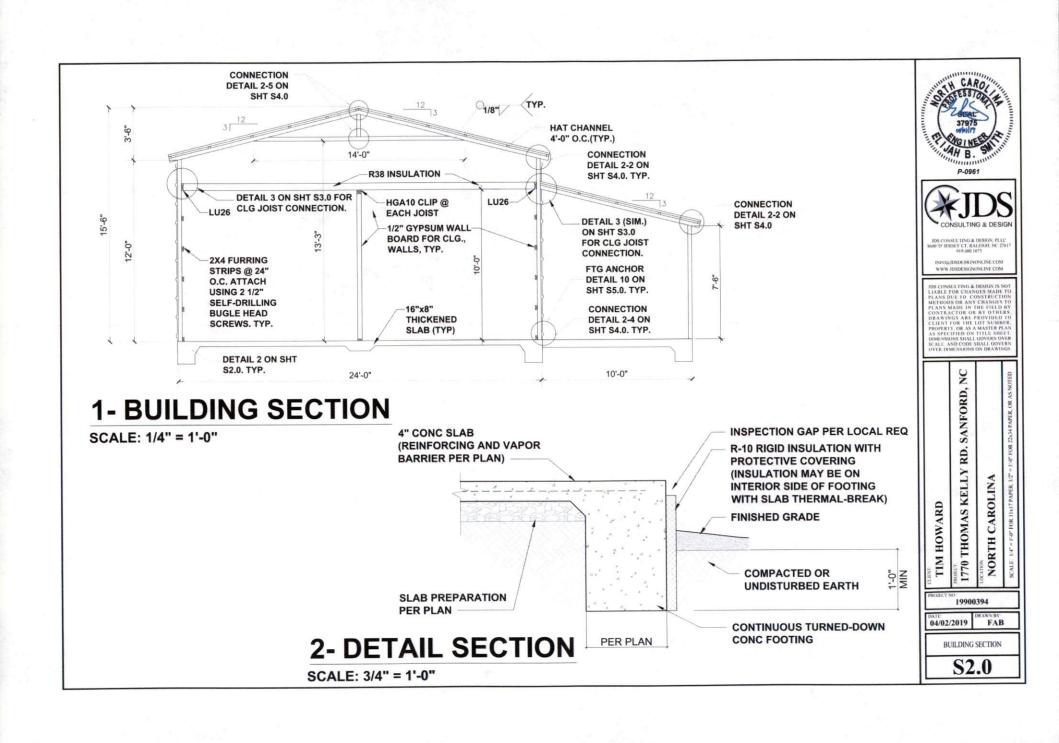
(PERPENDICULAR TO WALL) (2) LOE WHITE (2) LOF NYIES TOP PLATES OR SILL PLATE BOTTOM CHORD OF TRUSS TO PLATE (PARALLEL TO WALL) OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL NVITE 64. OC NVIES @ 8. OC AND INTERSECTING WALLS (3) EVCE NVICE (3) EVCE NVILS TOP PLATE LAP AT CORNERS (S4" MIN LAP LENGTH) DOUBLE TOP PLATES LAP (13) NYIFR IN FYBBED (13) NVIF2 IN TVIMED DOUBLE TOP PLATES NVICE B 15, OC NVIES & 15, OC NVIES 6 9. OC NAILS @ 8" OC DOUBLE STUD TOP PLATE OR SILL PLATE SJIAN BOT (4) (4) TOE NAILS BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE TOE NAILS @ 4" OC TOE NAILS @ 6" OC (4) EVCE NVIES (3) EVCE NVILS TOP OR SOLE PLATE TO STUD STUD TO SOLE PLATE (4) TOE NAILS (4) TOE NAILS (su pusced beuses) (staned beceld in) SOLE PLATE TO JOIST / (4) PER 16" SPACE (4) PER 16" SPACE NVITE & 8., OC ((Abicul) JOIST TO SILL PLATE (4) TOE NAILS (4) TOE NAILS 3" × 0.131" NAIL 3" × 0.120" NAIL CONNECTION

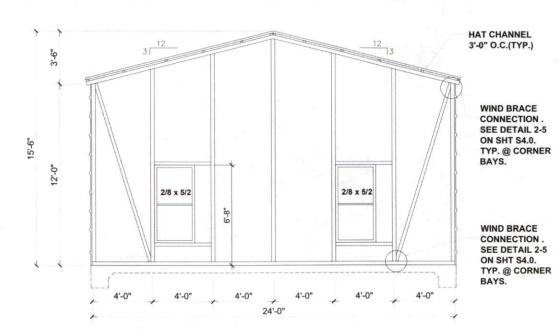
FASTENER SCHEDULE











END WALL FRAMING ELEVATION

SCALE: 1/4" = 1'-0"





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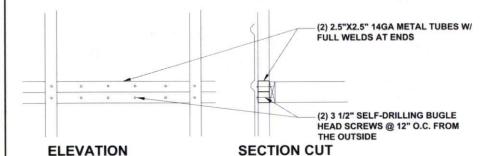
TIM HOWARD

BUILDING SECTION

S2.1

SEISMIC

DESIGN I	DADS	211	RUCTURAL DE	SIGN		
DESIGN I	IMPORTANCE FACTO	ORS: WIND (Iw) SNOW (Is) SEISMIC (Ie)	1.0 1.0 1.0			
	LIVE LOADS: (TABLE 1607.1)	ROOF MEZZANINE GROUND FLO	N/A	psf psf psf		
	GROUND SNOW LOA (SECTION 1608)		_psf	***		
		BASIC WIND SPEED EXPOSURE CATEGOR	Y C	_mph (ASCE7-16) 	13.0k	
	RAIN LOAD: (SECTION 1611)	WIND DASE SHEARS	_ INCHES/HOUR	VX =VY =	10.01	
SEISMIC	DESIGN CATEGORY		■ 8	ПС	□ D	DΕ
	THE FOLLOWING SEIS	MIC DESIGN PARAME	TERS:		WI	ND
	THE FOLLOWING SEIS OCCUPANCY CATEG SPECTRAL RESPON	MIC DESIGN PARAME CORY (TABLE 1604.5) SE ACCELERATION ON (TABLE 1613.5.2)	TERS:	□ □ V %g S, <u>0.066</u> %g ■ C □ D □ E □	CONT	ND ROLS
	THE FOLLOWING SEIS OCCUPANCY CATE SPECTRAL RESPON SITE GLASSIFICATIC BASIC STRUCTURAL BEARI BEARI BUILD MOME	MIC DESIGN PARAME CORY (TABLE 1604.5) SE ACCELERATION IN (TABLE 1613.5.2) DATA SOURCE: L SYSTEM (CHECK OR NG WALL ING FRAME INT FRAME AR VX =	TERS:	□ III □ IV %g S \ 0.066 %g □ C □ D □ E □ ST ● PRESUMPTIVE I AL MOMENT FRAME MEDIATE R/C OR SPECIAL S	F CONT ☐ HISTORICAL DATA STEEL	
	THE FOLLOWING SEIS OCCUPANCY CATEC SPECTRAL RESPON SITE GLASSIFICATIO BASIC STRUCTURA BEARI BUILD MOME SEISMIC BASE SHE ANALYSIS PROCEDI	MIC DESIGN PARAME CORY (TABLE 1604.5) SE ACCELERATION IN (TABLE 1613.5.2) DATA SOURCE: L SYSTEM (CHECK OR NG WALL ING FRAME INT FRAME AR VX =	TERS:	III IV % S, 0.066 % S ST O D E S ST PRESUMPTIVE I AL MOMENT FRAME MEDIATE R/C OR SPECIAL S M	F CONT ☐ HISTORICAL DATA STEEL	
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3-DETAIL

N.T.S.

CONSTRUCTION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE (WITH ASCE 7-10 WIND LOAD) AND ALL OTHER APPLICABLE LOCAL CODES, REGULATIONS AND REQUIREMENTS
- ALL WELDING SHALL BE ACCORDING TO AWS D1.1. VERIFY ALL DIMENSIONS WITH THE OWNER PRIOR TO BEGINNING WORK OR ORDERING MATERIALS.
- CONTRACTOR TO VERIFY SOIL BEARING CAPACITY PRIOR TO BEGINNING WORK. SOIL BEARING
 CAPACITY TO BE A MINIMUM OF 2000 PSF. IF CAPACITY IS LESS THAN 2000 PSF, CONTACT
 ENGINEER PRIOR TO BEGINNING WORK FOR POSSIBLE FOUNDATION REDESIGN.
- 4. DESIGN LOADS:

ROOF DEAD LOAD: 4 PSF

ROOF LIVE LOAD: 12 PSF (SPECIAL SCAFFOLDING SHALL BE REQUIRED AS A WORK SURFACE FOR WORKMAN AND MATERIALS DURING ROOF INSTALLATION, MAINTENANCE, AND REPAIR.)

BASIC WIND SPEED: 104 MPH (3 SECOND GUST)
GROUND SNOW LOAD: 10 PSF EXPOSURE CATEGORY C

- THE MINIMUM YIELD STRENGTH OF THE STEEL USED IN THE LIGHT GAUGE METAL FRAMES SHALL BE 55,000 PSI, RAW OR GALVANIZED TUBES.
- THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER A MINIMUM OF THREE SPANS.
- ALL WELDS SHALL BE COATED WITH GALVANIZED PRIMER AND PAINT AFTER WELDING. ALL STRUCTURAL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- ALL FOOTINGS AND SLABS SHALL BE PLACED ON UNDISTURBED SATISFACTORY ON SITE SOIL.
 THE BOTTOM OF ALL FOOTINGS SHALL BE PLACED BELOW THE FROST LINE.
- CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND SHALL HAVE 5% TO 7% ENTRAINED AIR.
- 10. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40 (FYI=40,000 PSI) AND SHALL HAVE STANDARD DEFORMATIONS. ALL LAP SPLICES SHALL BE 48 BAR DIAMETERS UNLESS OTHERWISE NOTED. CONTRACTOR TO SECURELY TIE ALL REINFORCING STEEL TO PREVENT MOVEMENT DURING PLACEMENT OF CONCRETE.
- 11. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185, LAP ONE FULL MESH PLUS 2" AT SPLICES. FABRIC SHALL BE FURNISHED IN FLAT SHEETS. CONTRACTOR MAY USE FIBER FILL CONCRETE IN LIEU OF WWF IF DESIRED OVER PROPERLY DRAINED BASE MATERIAL AND VAPOR BARRIER.
- 12. ALL BUILDING DIMENSIONS ARE NOMINAL.





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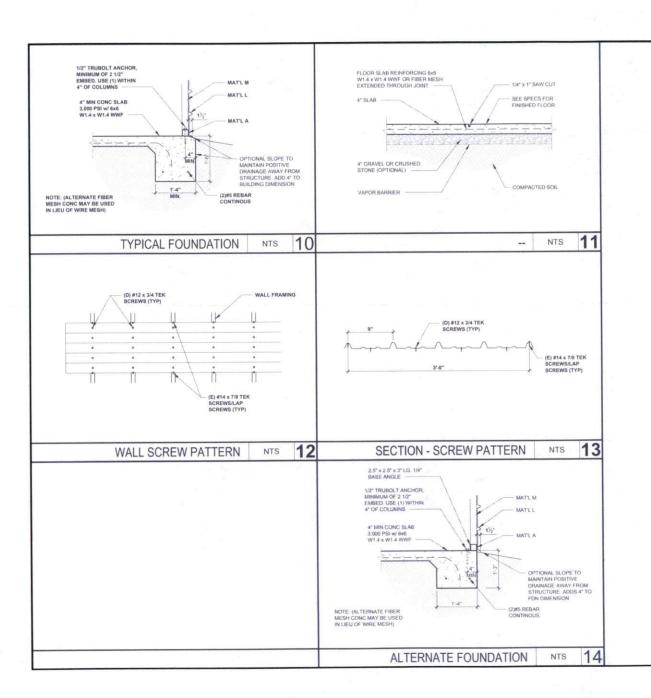
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04/02/2019

GENERAL NOTES

FAB

S3 0



Α	2.5" x 2.5" x 14GA TUBING
В	4" x 4" x 1/4" ANGLE MIN. A36 STEEL
С	NOT USED
D	#12 x 3/4" TEK SCREW
Е	#12/#14 x 7/8* TEK SCREW/ LAP SCREW
F	#14 x 1-1/4" TEK SCREW/LAP SCREW
G	29 GA METAL ROOF PANELS
Н	20 GA GALVANIZED TP15 TIE PLATE 1 13/16 "X5" OR SIMPSON STRONG TIE A-21
j.	2 x 2 x 3/16L 36KSI STEEL ANGLE
K	4 x 14 GA BAR
L	29 GA METAL WALL PANELS
м	2.5" x 2.5" x 14GA NESTED W/ 2.25" x 2.25" X 12GA TUBING





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RD. SANFORD, NC

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OCATION
NORTH CAROLINA

19900394

DATE: 04/02/2019

TIM HOWARD

DETAILS

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