

NOTICE TO CONTRACTOR:  
All construction must comply with current NC Building Codes and all applicable local, state and federal codes.  
APPROVED  
Contract building only - no other construction permitted without full compliance with the code.  
10/24/2022

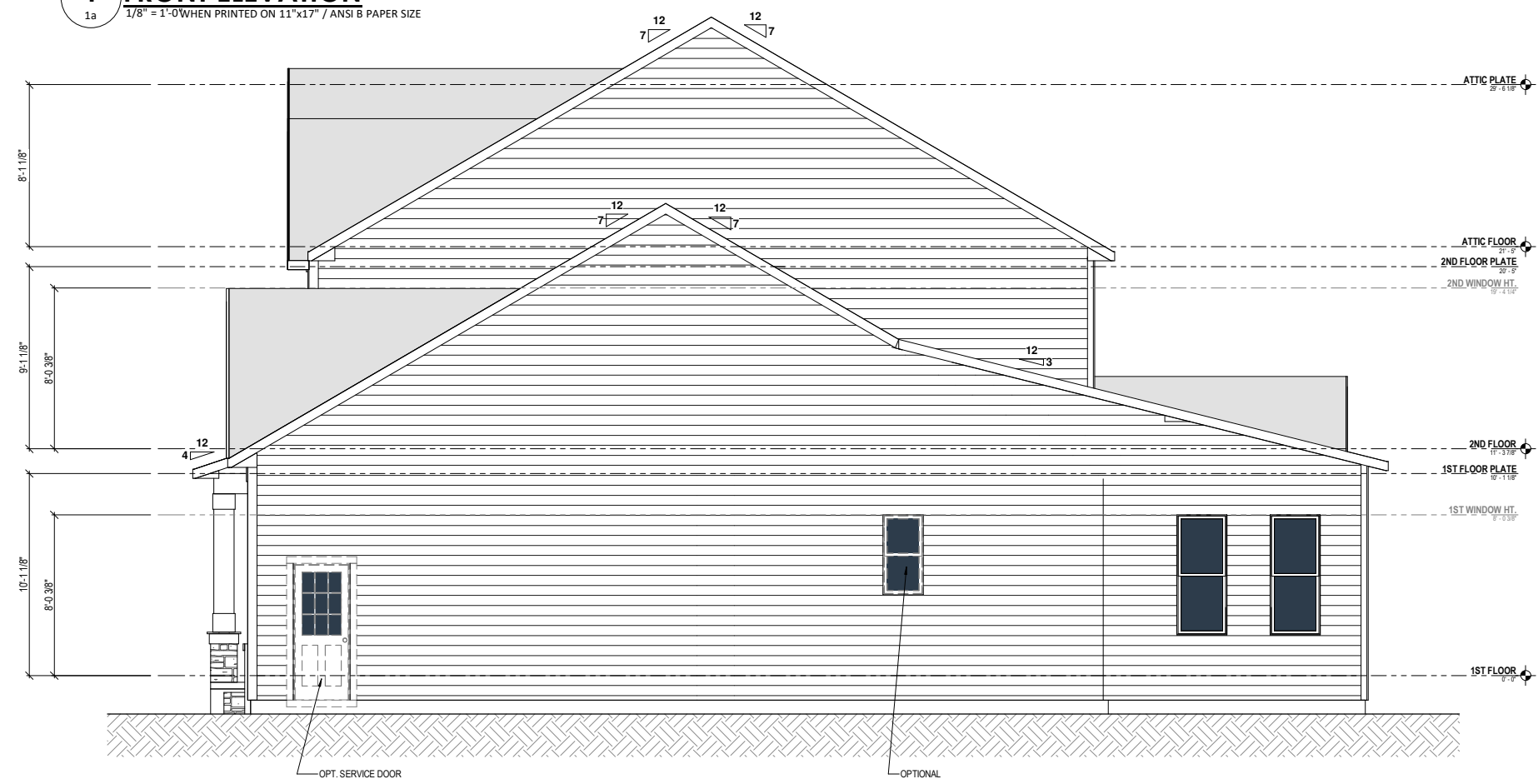
MEAN ROOF HGT = 29'-0"

**ENERGY COMPLIANCE MINIMUMS**  
 MAX GLAZING U-FACTOR = 0.35  
 WALL R-VALUE = 15  
 CEILING R-VALUE = 38  
 FLOOR R-VALUE = 19

Heated SQFT Elev. 1	
Description	Area
1st Floor Livable	2216 SF
2nd Floor Livable	1344 SF
<b>Grand total</b>	<b>3560 SF</b>

Unheated SQFT Elev. 1	
Description	Area
Front Porch	127 SF
Garage	453 SF
Screened Porch	188 SF
Deck	163 SF

**1 FRONT ELEVATION**  
 1a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



**2 RIGHT ELEVATION**  
 1a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

Lexington II - NC179

Caruso Homes

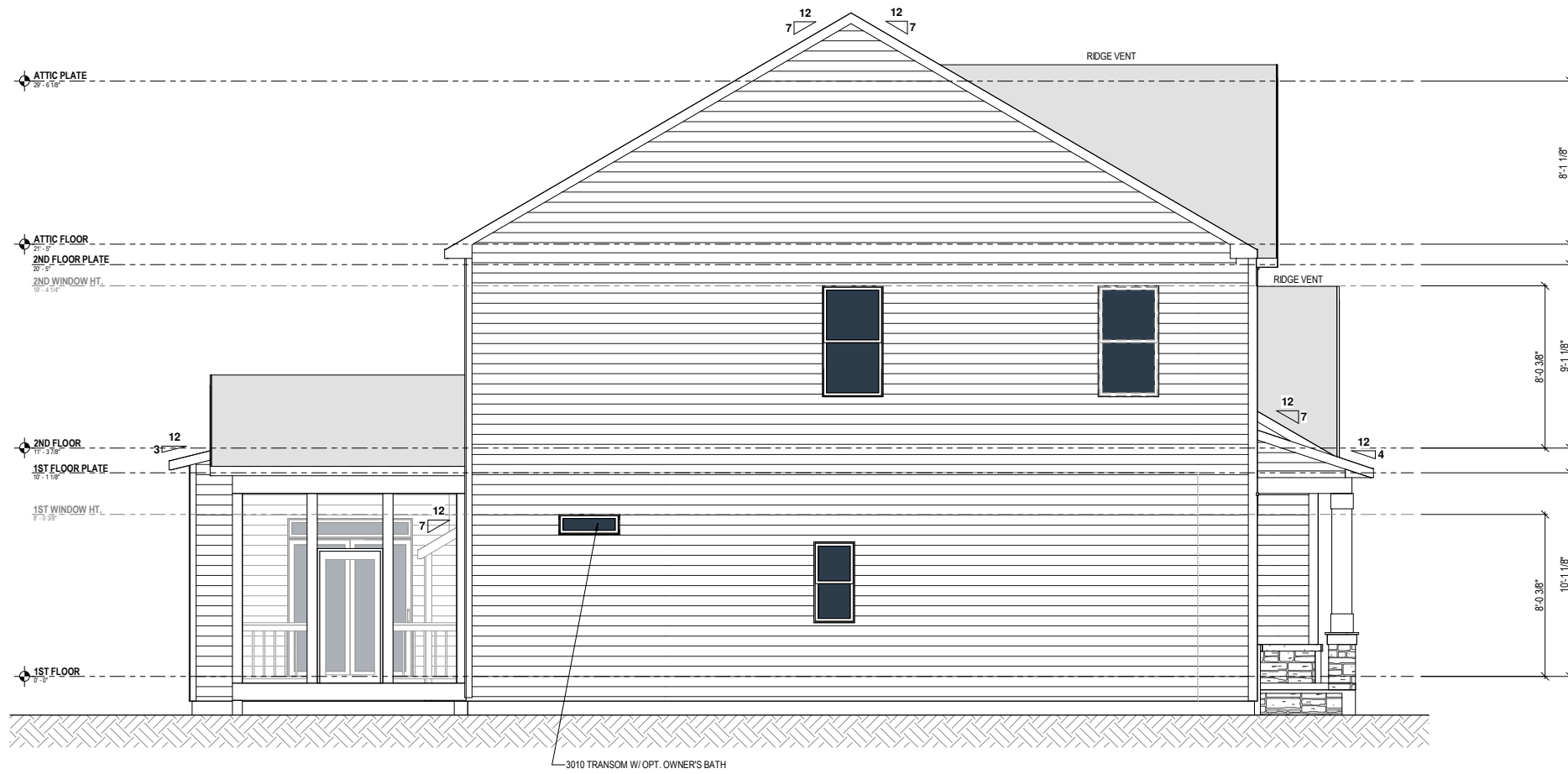
Front and Left Elevation 1

Date: 2/29/22

Drawn By: RDC

Checked By: SGM

1a



**3 LEFT ELEVATION**  
2a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



**1 REAR ELEVATION**  
2a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

Lexington II - NC1 79

Caruso Homes

Right and Rear Elevations

Date: 2/29/22

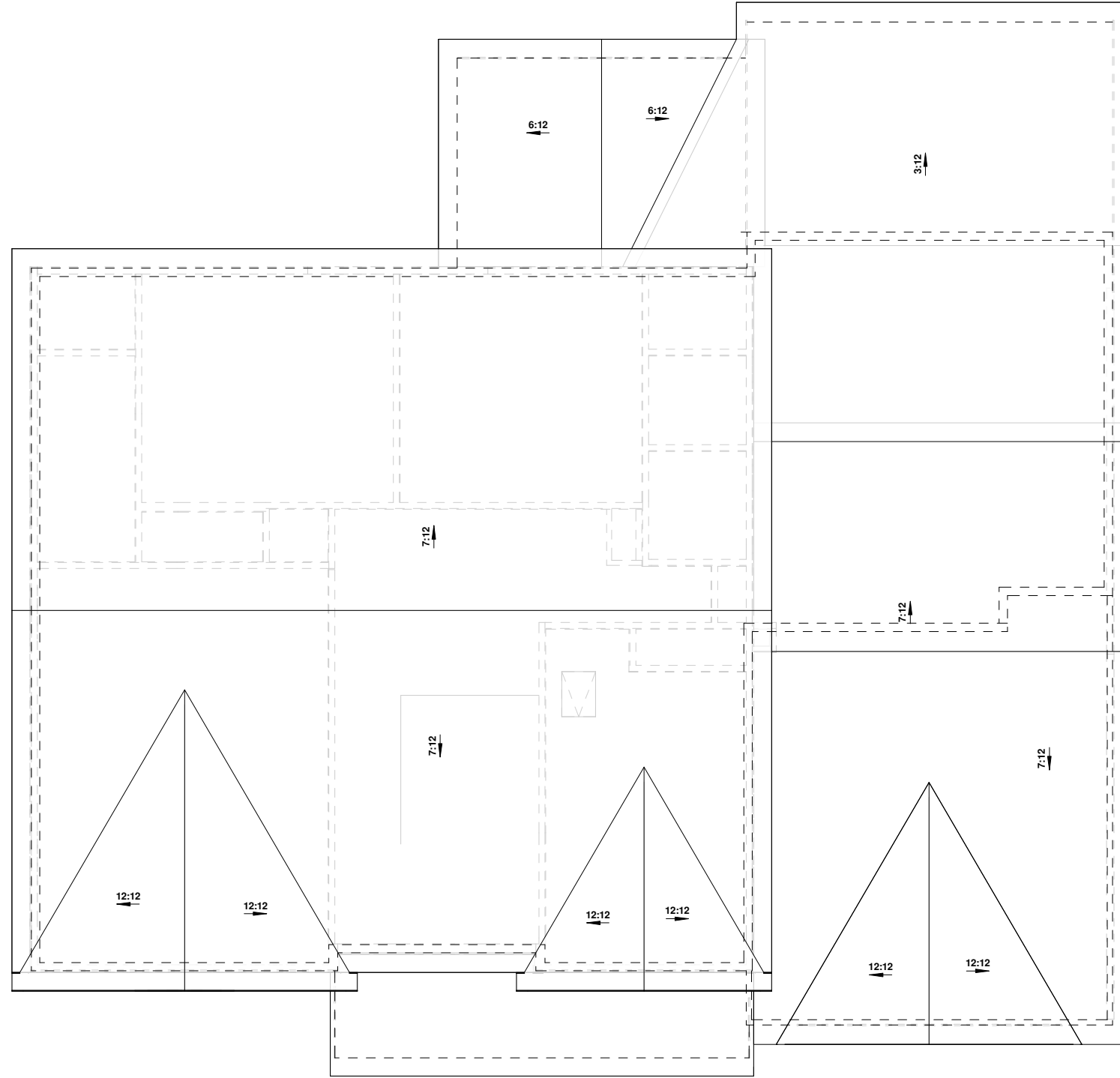
Drawn By: RDC

Checked By: SGM

2a

# Roof Vent Calculations

SQFT. REQUIRED  $2,560 / 150 = 17.07$  SQFT.



**1** Roof Plan  
3a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



Lexington II - NC1 79

Caruso Homes

Roof Plan Elevation 1

Date: 2/29/22

Drawn By: RDC

Checked By: SGM

3a

# Crawl Vent Calculations

SQFT. OF VENTILATION REQ'D =  $\frac{2216}{1500}$  CRAWL SQFT. /1500 = **1.48 SQFT.**

NUMBER OF VENTS REQ'D =  $\frac{1.48}{0.45}$  /0.45 SQFT. PER VENT = **4 VENTS**

VENT SHALL BE PLACED WITHIN AT LEAST 3'-0" FROM EACH FOUNDATION CORNER.

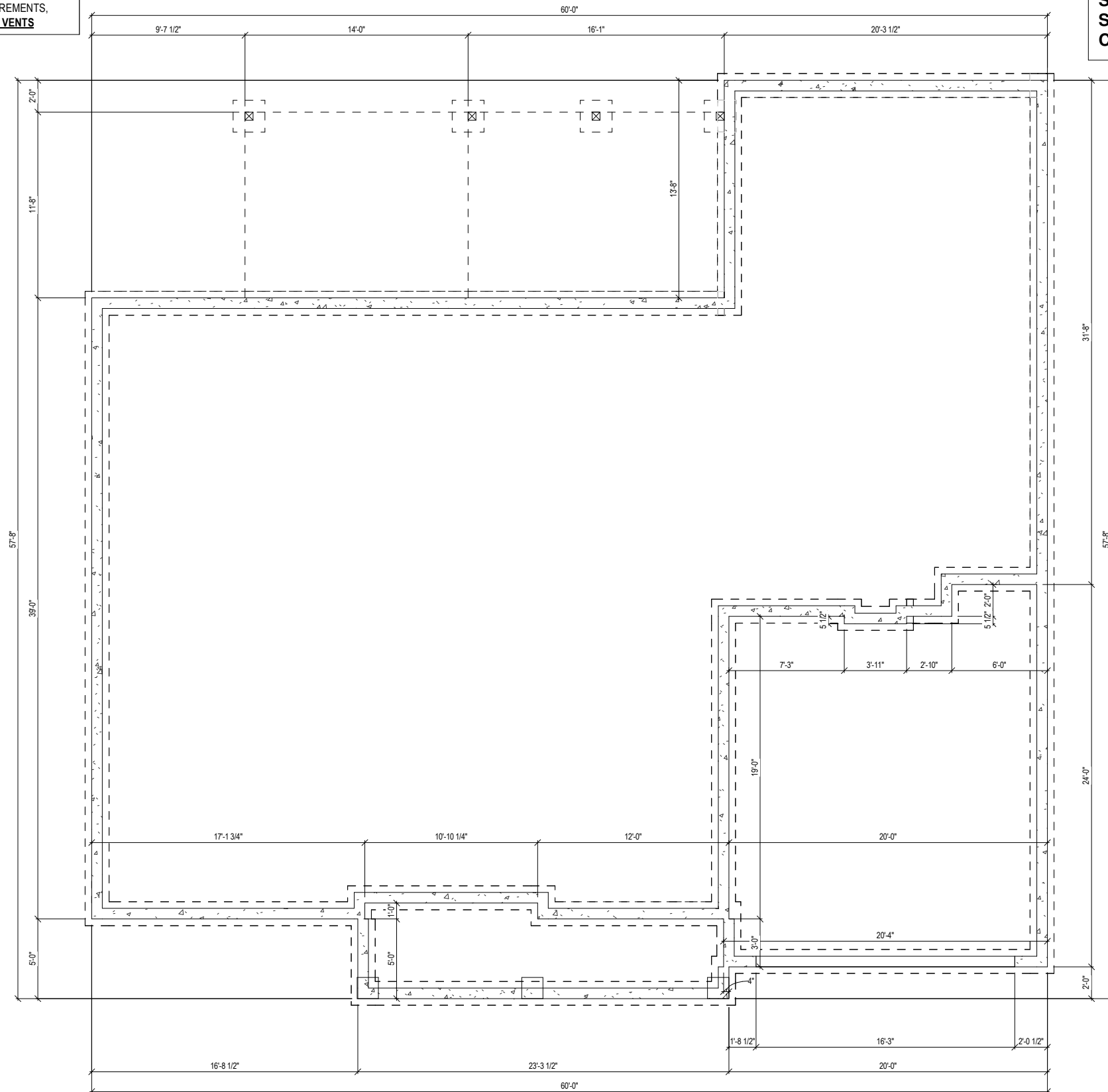
# OF CORNERS EFFECTED = **7**

NUMBER OF CORNERS IS GREATER THAN SQUARE FOOTAGE REQUIREMENTS, THEREFORE THE NUMBER OF FOUNDATION VENTS REQUIRED IS = **7 VENTS**

BASED ON TYPICAL AUTOMATIC FOUNDATION VENT HAVING 65 SQ. INCHES OF VENTING.  
CONTRACTOR TO CONFIRM ACTUAL VENTS USED AND ADJUST AS NEEDED IN FIELD.

**NOTE: THIS SHEET IS AN ARCHITECTURAL FOUNDATION SHEET INTENDED ONLY FOR EXTERIOR DIMENSIONS AND/OR VENTILATION REQUIREMENTS/SPECIFICATIONS.**

**SEE SEALED STRUCTURAL PAGE FOR INFORMATION REGARDING, BUT NOT LIMITED TO, FOOTING LOCATIONS AND SPECIFICATIONS, PIER LOCATIONS AND SPECIFICATIONS, DECK FRAMING, AND COMPACTION**



NOTE: PLANSOURCE DESIGNS IS NOT RESPONSIBLE FOR THE STRUCTURAL CALCULATIONS FOR THIS CONSTRUCTION PLAN SET. ALL STRUCTURAL DESIGN ELEMENTS, INCLUDING BUT NOT LIMITED TO, BEAM SIZES, FLOOR SPANS, STUD COLUMNS AND FOOTING SIZES, ARE TO BE VERIFIED BY THE BUILDER AND/OR ENGINEER

**1** Crawl Foundation  
1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

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Crawl Foundation

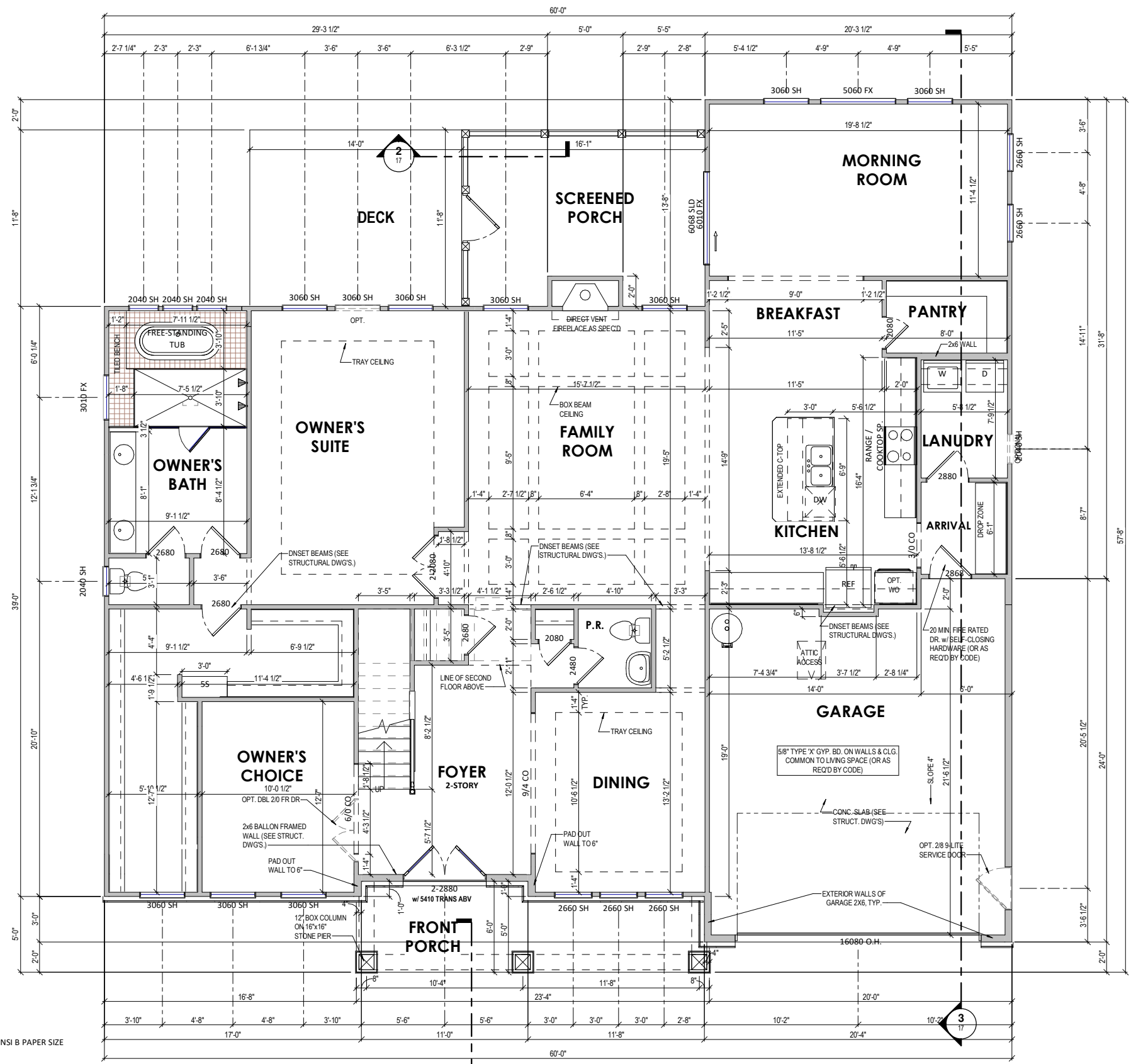
Date: 2/29/22

Drawn By: sgm

Checked By: sgm

**4a**





**1 1st Floor Plan**  
 5a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

Lexington II - NC1 79

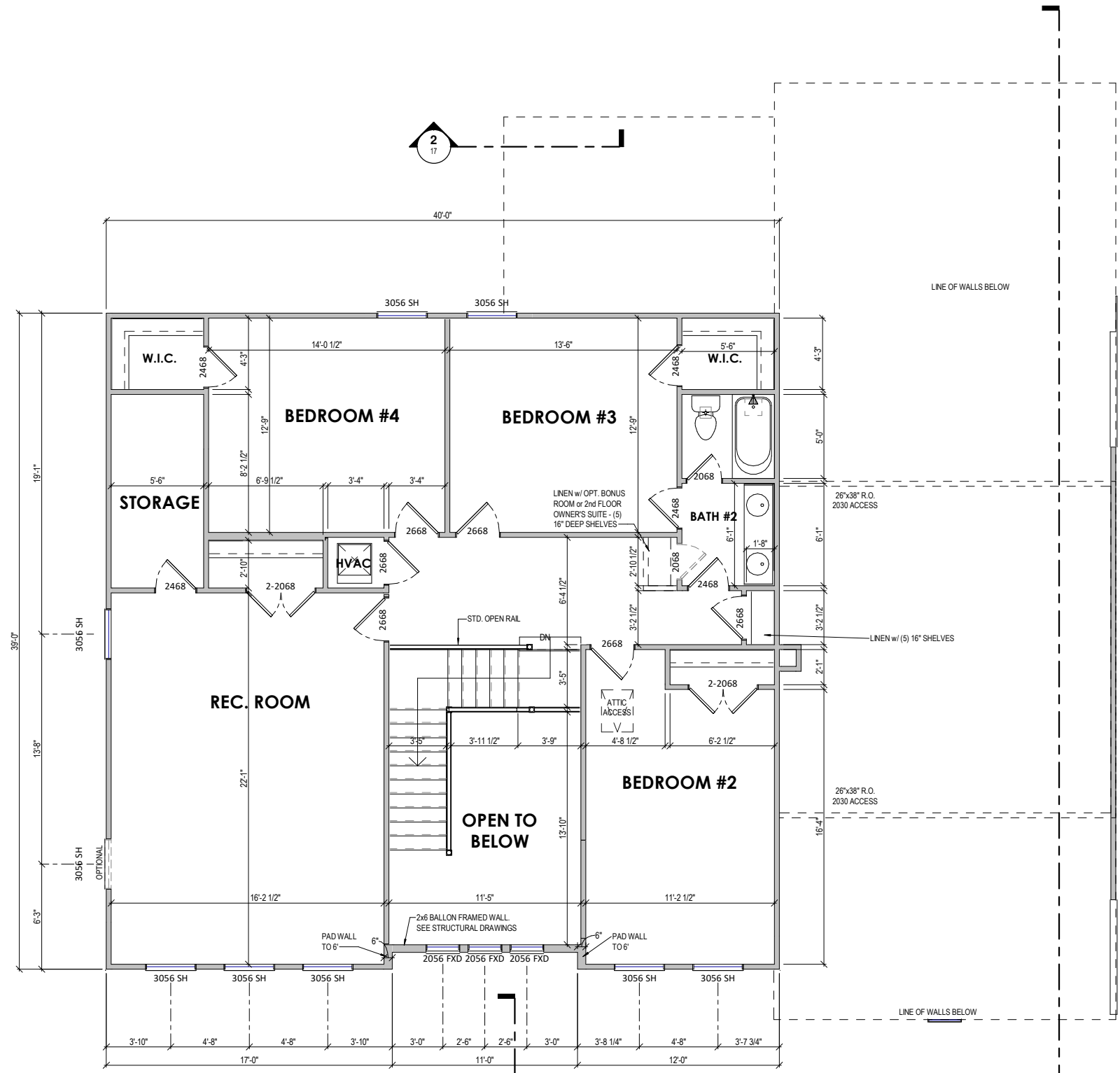
Caruso Homes

First Floor Plan Elevation 1

Date: 2/29/22

Drawn By: RDC

Checked By: SGM



**1 2nd Floor Plan**  
6a  
1/8" = 1'-0" WHEN PRINTED ON 11" x 17" / ANSI B PAPER SIZE

Lexington II - NC1 79

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Second Floor Plan

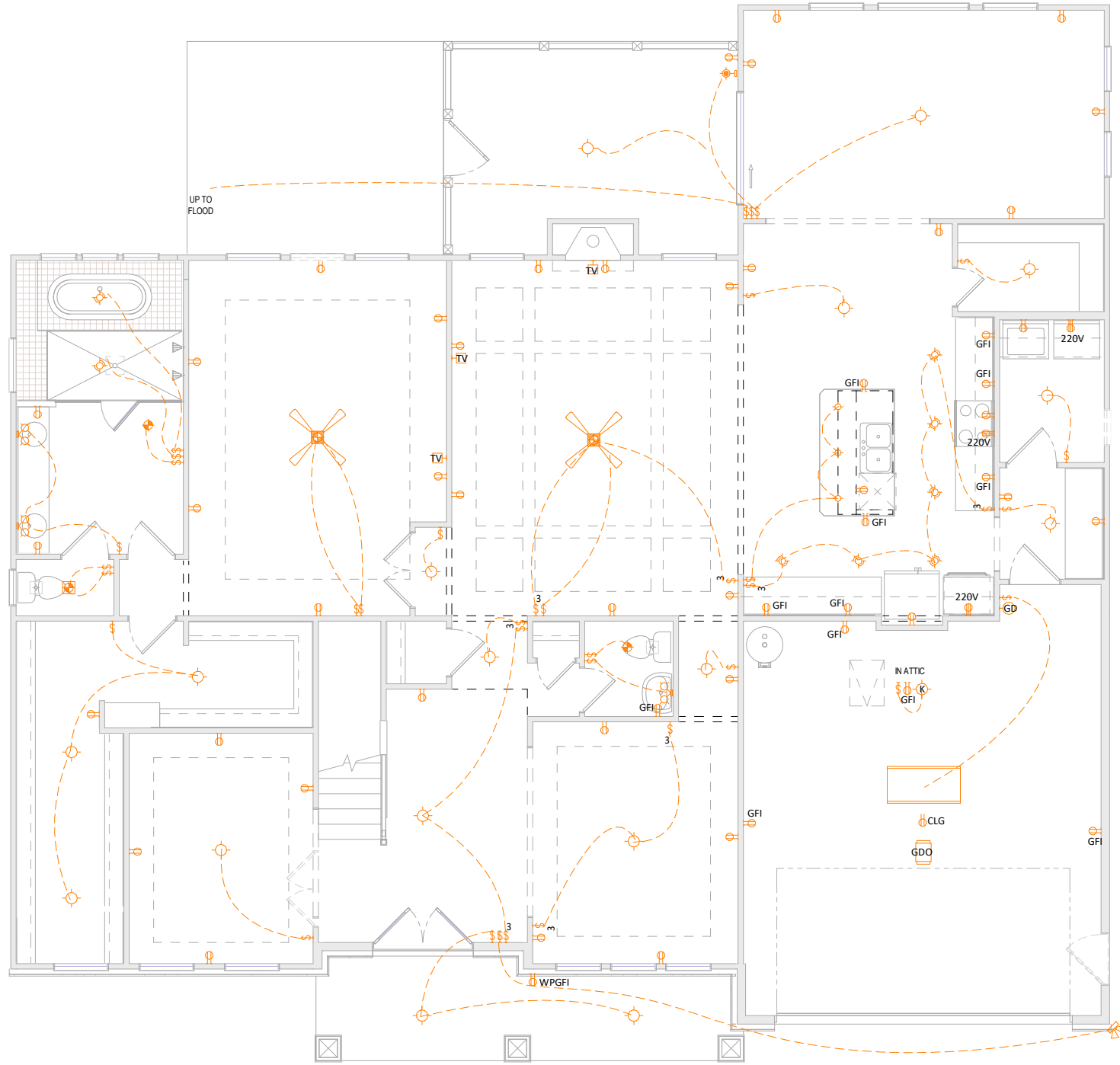
Date: 2/29/22

Drawn By: RDC

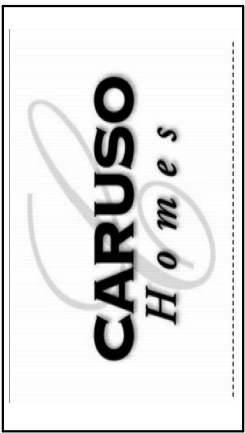
Checked By: SGM

6a

ELECTRICAL LEGEND			
	SINGLE POLE SWITCH		DOOR BELL BUTTON
	3-WAY SWITCH		DOOR BELL CHIME
	4-WAY SWITCH		GARAGE DOOR
	DIMMER SWITCH		BUTTON GARAGE DOOR
	220 VOLT OUTLET		WEATHERPROOF OUTLET
	DUPLEX OUTLET		CEILING OUTLET
	GROUND FAULT OUTLET		FLOOR OUTLET
	SMOKE DETECTOR		CARBON MONOXIDE & SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR		NETWORK OUTLET
	TELEVISION OUTLET		TELEPHONE OUTLET
	SERVICE PANEL		GARBAGE DISPOSAL
	SERVICE METER		ACCENT LIGHT
	WALL MOUNT LIGHT		SINGLE SCONCE
	FLOOD LIGHT		DOUBLE SCONCE
	STRIP LIGHT		STAIR LIGHT
	BATH FAN & LIGHT		BATH FAN
	COMBO CLOSET CASTER LIGHT		UNDER CABINET LIGHT
	PULL CHAIN LIGHT		KEYLESS LIGHT
	FLUSH MOUNT LIGHT		HANGING LIGHT
	HANGING PENDANT LIGHT		MINIATURE PUCK LIGHT
	RECESSED CAN LIGHT		RECESSED EYEBALL LIGHT
	FLUORESCENT LIGHT RECTANGULAR		FLUORESCENT LIGHT ROUND
	CEILING FAN		LIGHT w/ FAN ROUGH
	LIGHTED CEILING FAN		LIGHT & FAN ROUGH



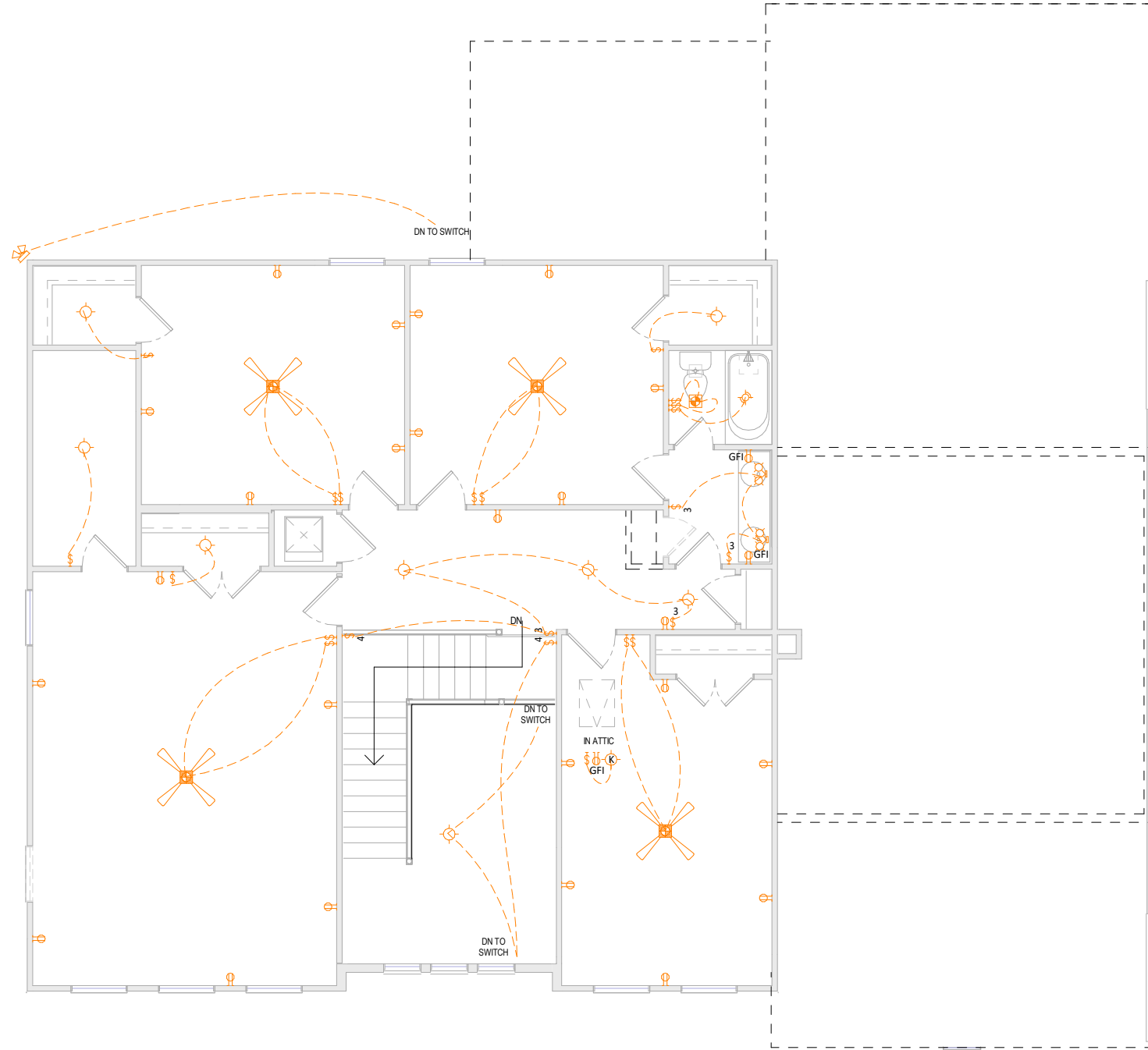
**1 1st Floor Plan Electrical**  
15 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



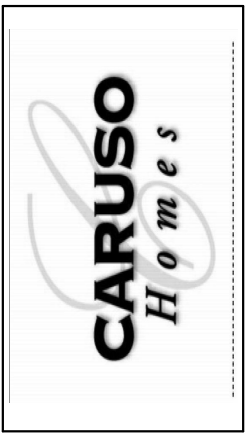
Lexington II - NC1 79  
 Caruso Homes  
 First Floor Electrical

Date: 2/29/22  
 Drawn By: RDC  
 Checked By: SGM

ELECTRICAL LEGEND			
	SINGLE POLE SWITCH		DOOR BELL BUTTON
	3-WAY SWITCH		DOOR BELL CHIME
	4-WAY SWITCH		GARAGE DOOR BUTTON
	DIMMER SWITCH		GARAGE DOOR OPENER WEATHERPROOF OUTLET
	220 VOLT OUTLET		CEILING OUTLET
	DUPLEX OUTLET		FLOOR OUTLET
	GROUND FAULT OUTLET		CARBON MONOXIDE & SMOKE DETECTOR
	SMOKE DETECTOR		CARBON MONOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR		DATA NETWORK OUTLET
	TELEVISION OUTLET		TELEPHONE OUTLET
	SERVICE PANEL		GARBAGE DISPOSAL
	SERVICE METER		ACCENT LIGHT
	WALL MOUNT LIGHT		SINGLE SCONCE
	FLOOD LIGHT		DOUBLE SCONCE
	STRIP LIGHT 3 BULB		STAIR LIGHT
	BATH FAN & LIGHT		BATH FAN
	COMBO CLOSET CASTER LIGHT		UNDER CABINET LIGHT
	PULL CHAIN LIGHT		KEYLESS LIGHT
	FLUSH MOUNT LIGHT		HANGING LIGHT
	HANGING PENDANT LIGHT		MINIATURE PUCK LIGHT
	RECESSED CAN LIGHT		RECESSED EYEBALL LIGHT
	FLUORESCENT LIGHT RECTANGULAR		FLUORESCENT LIGHT ROUND
	CEILING FAN		LIGHT w/ FAN ROUGH
	LIGHTED CEILING FAN		LIGHT & FAN ROUGH



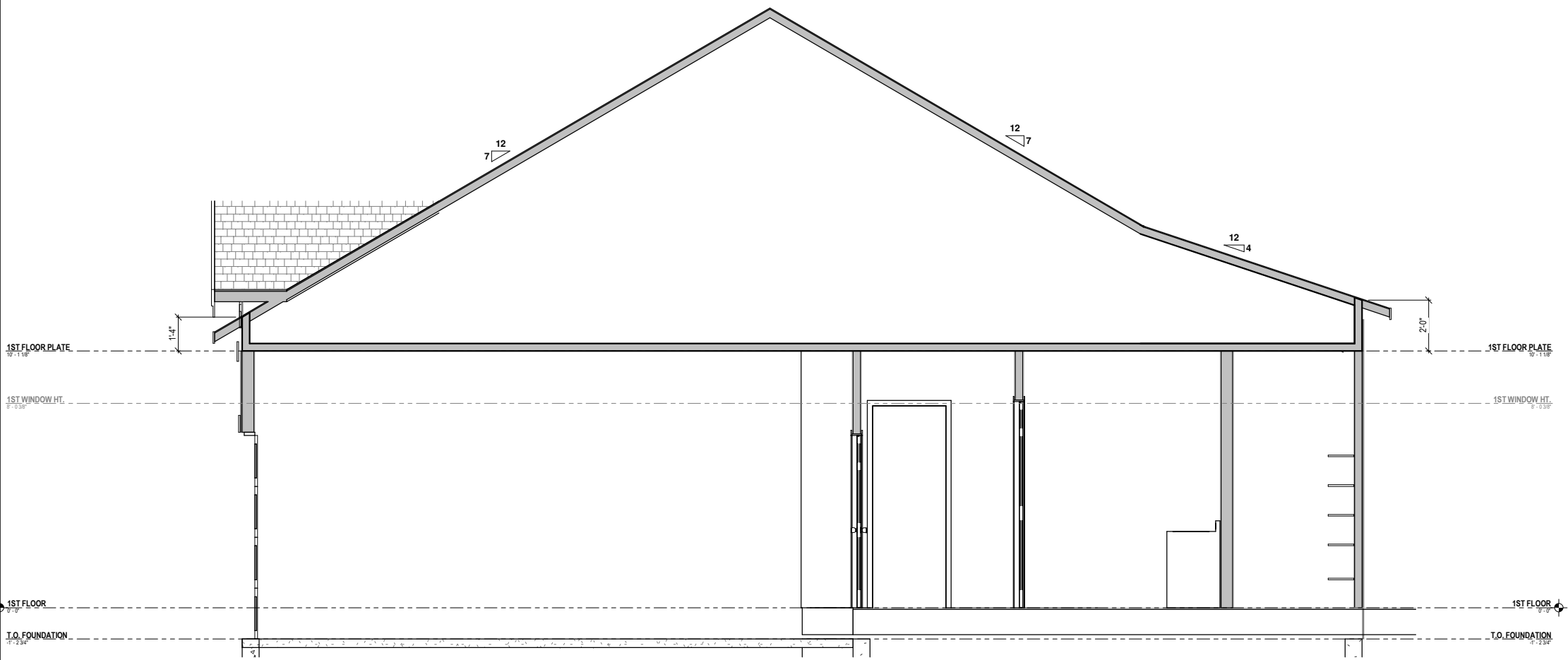
**1 2nd Floor Plan Electrical**  
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



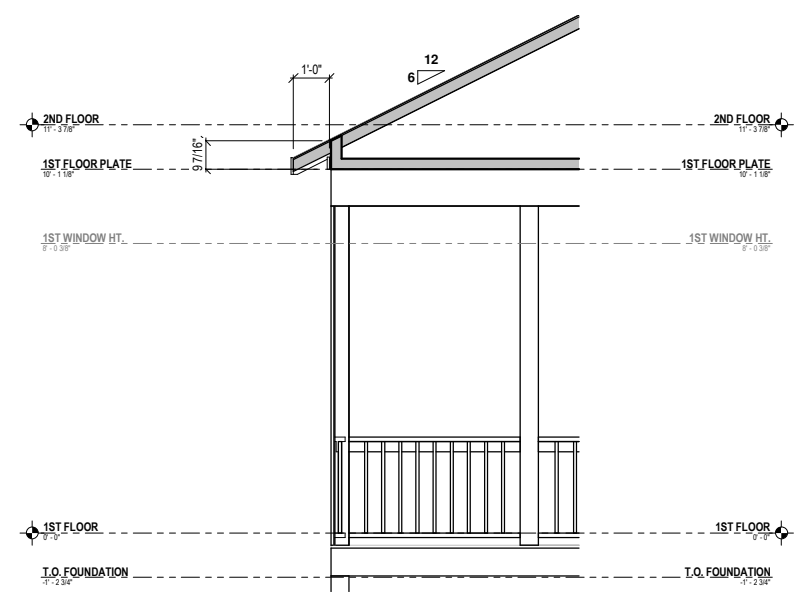
Lexington II - NC1 79  
 Caruso Homes  
 Second Floor Electrical

Date: 2/29/22  
 Drawn By: RDC  
 Checked By: SGM

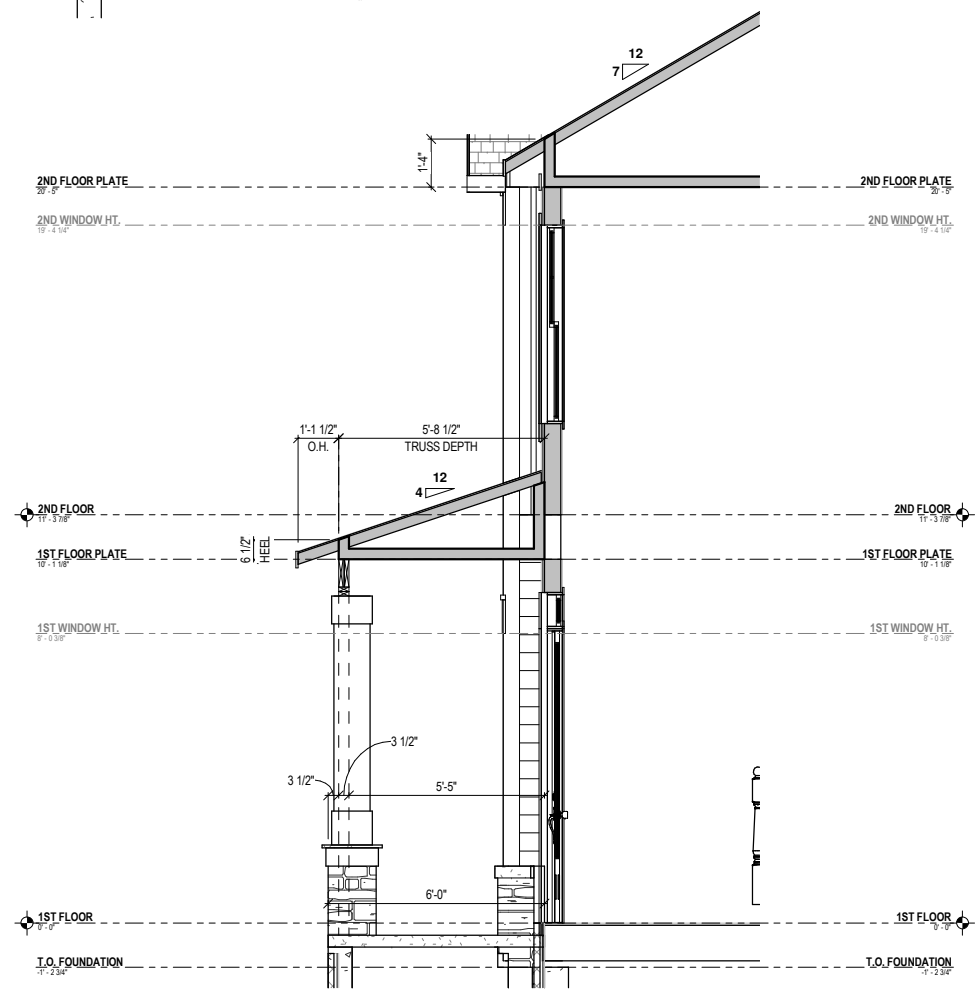




**3 Garage/House**  
17 3/16" = 1" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



**2 Screened Porch**  
17 3/16" = 1" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



**1 Front Porch**  
17 3/16" = 1" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

Lexington II - NC1 79

Caruso Homes

Sections

Date: 2/29/22

Drawn By: sgm

Checked By: sgm







FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- STRUCTURAL CONCRETE TO BE  $F_c = 3000$  PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
- FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 1" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS, PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION AND (1) LOCATED NOT MORE THAN 12" FROM THE CORNER. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- ABBREVIATIONS:

DJ = DOUBLE JOIST      SJ = SINGLE JOIST  
 GT = GIRDER TRUSS      FT = FLOOR TRUSS  
 SC = STUD COLUMN      DR = DOUBLE RAFTER  
 EE = EACH END      TR = TRIPLE RAFTER  
 TJ = TRIPLE JOIST      OC = ON CENTER  
 CL = CENTER LINE      PL = POINT LOAD

- ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICAL (UNO).
- WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE, IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.4.3 OF THE 2018 NCR. (TYP)

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS. ADDITIONAL INFORMATION PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCR.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER UNO

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1 PER TABLE R405.1

BEAM POCKETS MAY BE SUBSTITUTED FOR MASONRY PILASTERS AT GIRDER ENDS. BEAM POCKETS SHALL HAVE A MINIMUM 4" SOLID MASONRY BEARING.

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

18"x24" MIN. CRAWL SPACE ACCESS DOOR TO BE LOCATED IN FIELD PER BUILDER. PROVIDE MINIMUM (2) 2"x10" HEADER OVER DOOR W/ MIN. 4" BEARING AT EACH END. AVOID SHOWN POINT LOADS.

DECK JOISTS SHALL BE SPACED AT A MAX. 12" O.C. WHEN DECK BOARDS ARE INSTALLED DIAGONALLY.

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCR.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY CARUSO HOYES COMPLETED/REVISED ON 08/29/2022. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

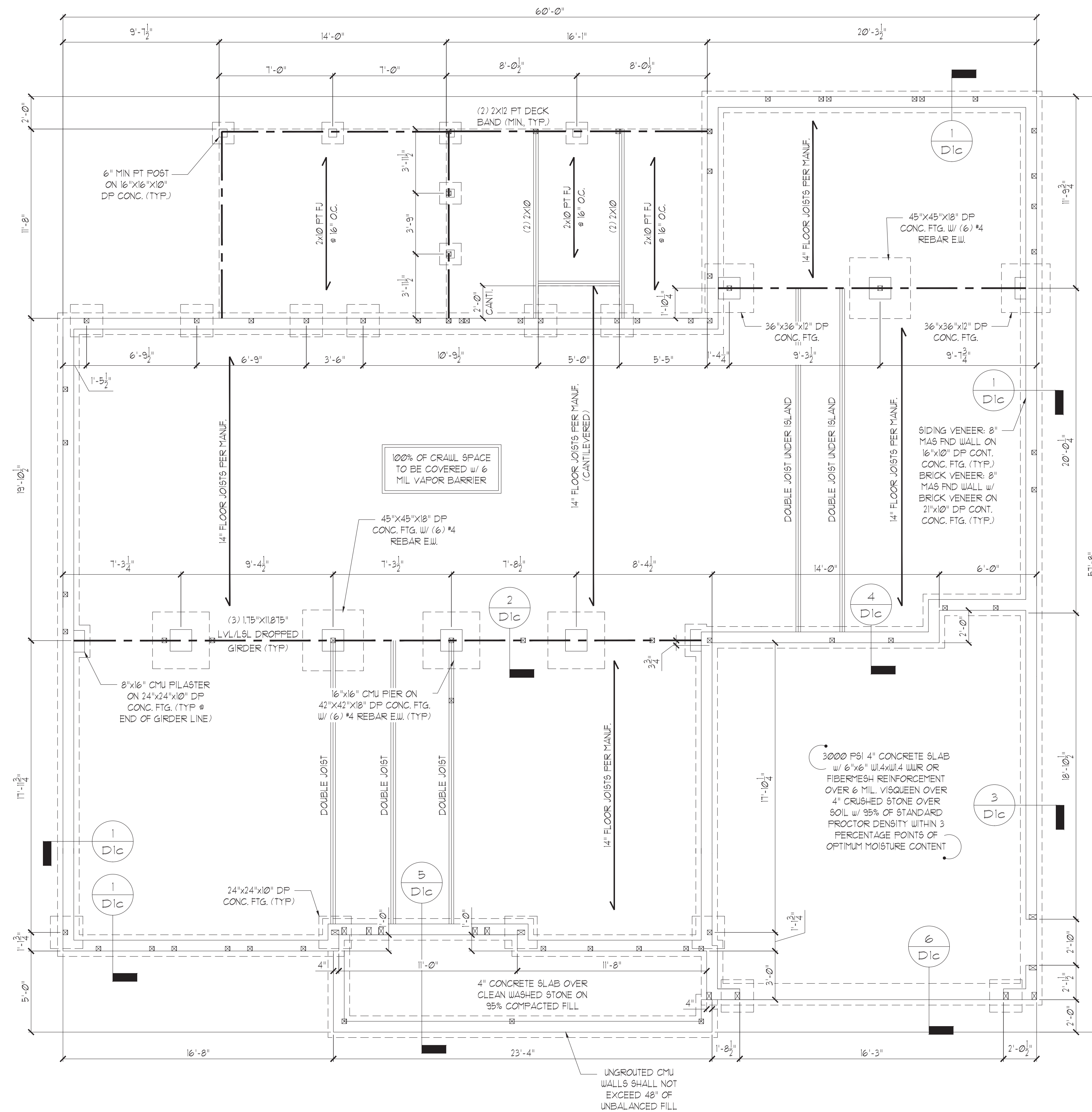
STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

CRAWL SPACE FOUNDATION PLAN

SCALE: 1/4" = 1'



ELEVATION 1

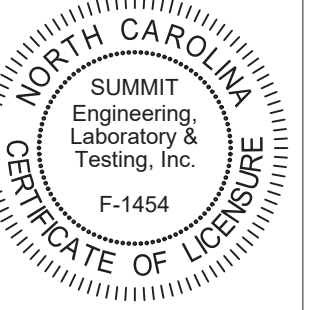
CRAWL SPACE VENTILATION:  
 226 SQ. FT. / 150' = 1.48 SQ. FT. REQ'D.  
 14.8 SQ. FT. / 0.45 PER VENT = 33 VENTS REQ'D.

NOTE: WHERE AN APPROVED VAPOR BARRIER IS INSTALLED OVER GROUND SURFACE, THE REQ'D. VENTILATION MAY BE REDUCED BY 50%.

STUD SPACED @ FND CRIPPLE WALLS

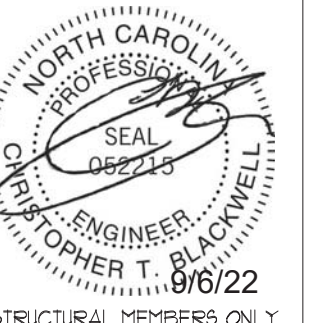
STUD SIZE	MAXIMUM STUD HEIGHT		
	UP TO 48"	4'-1" TO 6'-0"	6'-1" TO 8'-0"
2x4	16"	12"	N/A
2x6	16"	16"	12"

- NOTES:
- CRIPPLE STUDS EXCEEDING 48" IN HEIGHT SHALL BE CONSIDERED AN ADDITIONAL STORY PER R602.9
  - CRIPPLE STUDS SHALL NOT BE FRAMED SMALLER THAN THE STUD SIZE FRAMED ABOVE.
  - SQUASH BLOCKING SHALL BE INSTALLED UNDER ALL SHOWN STUD COLUMNS.
  - CRIPPLE WALLS SHALL BE SHEATHED IN ACCORDANCE WITH SHEATHING METHOD DENOTED ON FLOOR ABOVE.



CLIENT: CARUSO HOYES  
 206 HIGH HOUSE ROAD, SUITE 205  
 CARY, NC 27511

PROJECT: NCI19 (Lexington II I)  
 Crawl Space Foundation



DATE: 09/02/2022  
 SCALE: 3/16" = 1'-0"  
 PROJECT: 423153  
 DRAWN BY: EBS  
 CHECKED BY: CTB

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET S1.0c



GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:  
MICROLAM (LVL)  $F_b = 2600$  PSI,  $F_v = 285$  PSI,  $E = 1.9 \times 10^6$  PSI  
PARALLAM (FSL)  $F_b = 2900$  PSI,  $F_v = 290$  PSI,  $E = 1.25 \times 10^6$  PSI
- ALL WOOD MEMBERS SHALL BE #2 SYP UNLESS NOTED ON PLAN. ALL STUD COLUMNS SHALL BE #2 SFF (UNO).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 #2 SFF STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
- ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. MINIMUM (2) ANCHOR BOLTS PER FLATE SECTION AND (1) LOCATED NOT MORE THAN 12" FROM THE CORNER. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE FLATE.
- CONTRACTOR TO PROVIDE LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- FLITCH BEAMS, 4-PLY LVL'S AND 3-PLY SIDE LOADED LVL'S SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D31. MIN EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP #2, DROPPED. (UNLESS NOTED OTHERWISE)
- ABBREVIATIONS:

DJ = DOUBLE JOIST      SJ = SINGLE JOIST  
GT = GIRDER TRUSS      FT = FLOOR TRUSS  
SC = STUD COLUMN      DR = DOUBLE RAFTER  
EE = EACH END      TR = TRIPLE RAFTER  
TJ = TRIPLE JOIST      OC = ON CENTER  
CL = CENTER LINE      PL = POINT LOAD

WALL STUD SCHEDULE (10 FT HEIGHT)

STUD SIZE	STUD SPACING (O.C.)			
	ROOF ONLY	ROOF & 1 FLOOR	ROOF & 2 FLOORS	NON-LOAD BEARING
2x4	24"	16"	12"	24"
2x6	24"	24"	16"	24"

- NOTES:  
1. BRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C.  
2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16" O.C.  
3. TWO STORY WALLS SHALL BE FRAMED W/ 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.  
4. FOR STUDS GREATER THAN 10'-0" IN HEIGHT, REFER TO TWO STORY WALL NOTE FOR FRAMING REQUIREMENT.

ALL HEADERS WHERE BRICK IS USED, TO BE:

- ① LINTEL (UNO.)

LINTEL SCHEDULE:

STEEL ANGLES TO HAVE MINIMUM 4" BEARING ONTO BRICK AT EACH END.

- ① L3x3x1/4"  
② L5x3x1/4"  
③ L5x3-1/2x5/16"  
④ L5x3-1/2x5/16" ROLLED OR EQUAL ARCHED COMPONENT.

SECURE LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR ③)

SHADE WALLS INDICATED LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS. BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

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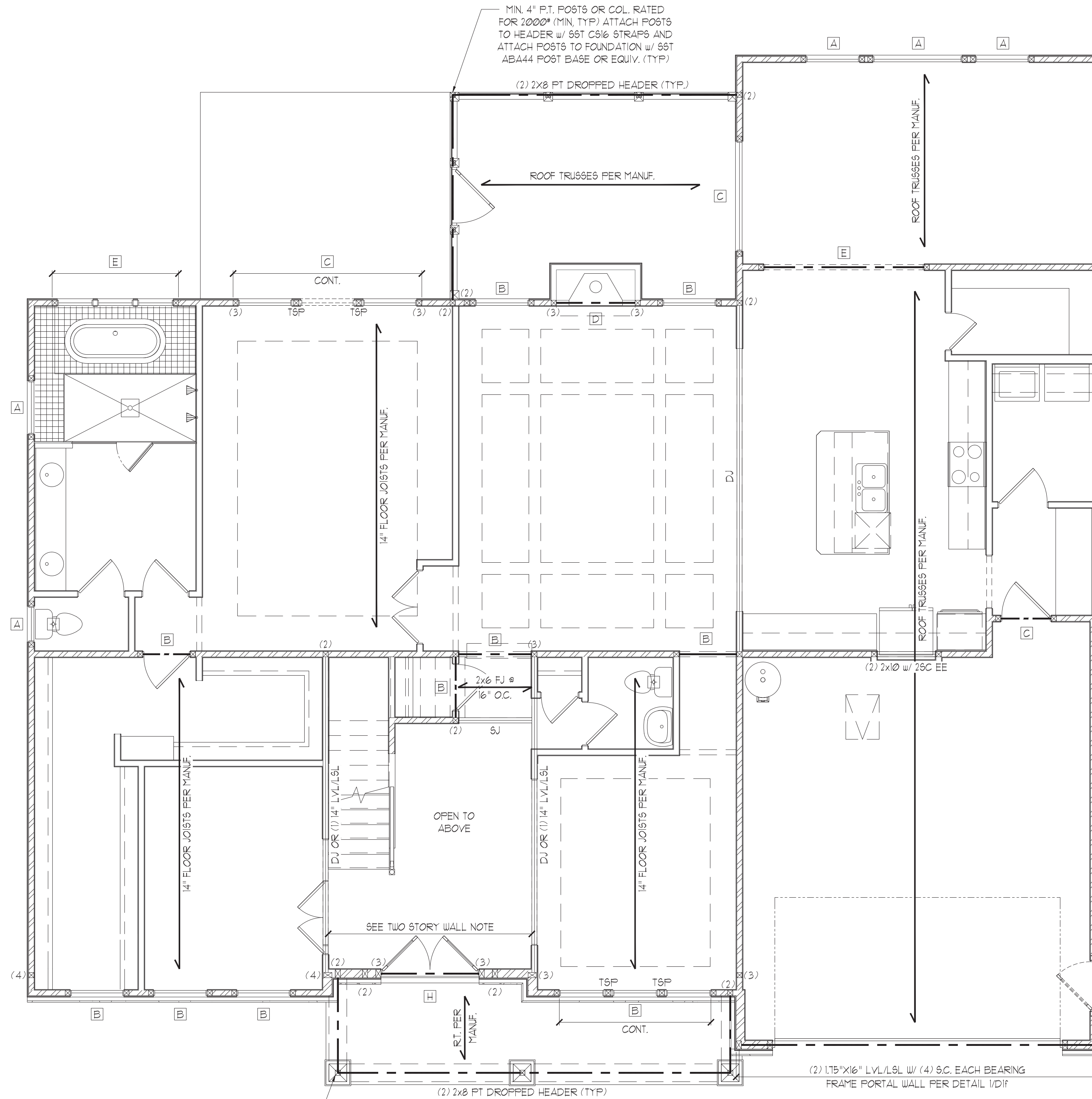
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

FIRST FLOOR FRAMING PLAN

SCALE: 1/4" = 1'

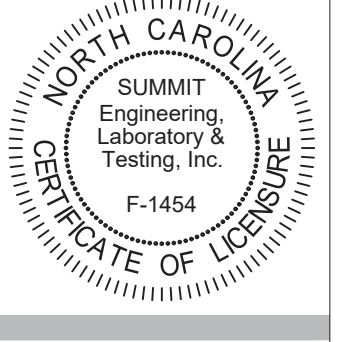


ELEVATION 1

HEADER SCHEDULE

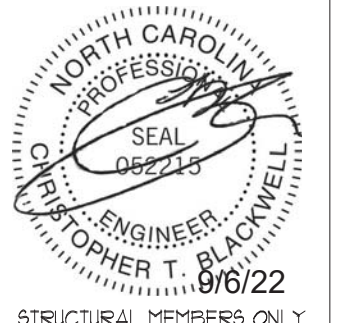
TAG	SIZE	JACKS (EACH END)
A	(2) 2x6	(1)
B	(2) 2x8	(2)
C	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LSL/LVL	(3)
F	(3) 2x6	(1)
G	(3) 2x8	(2)
H	(3) 2x10	(2)
I	(3) 2x12	(3)

- NOTES:  
1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.  
2. ALL HEADERS TO BE DROPPED (UNO.)  
3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (UNO.)



CLIENT: CARUSO HOYES  
206 HIGH HOUSE ROAD, SUITE 205  
CARY, NC 27511

PROJECT: NCI 19 (Lexington II I)  
First Floor Framing Plan



DATE: 09/01/2022  
SCALE: 3/16" = 1'-0"  
PROJECT #: 421583  
DRAWN BY: EPB  
CHECKED BY: CTB  
ORIGINAL INFORMATION  
PROJECT #: 421583      DATE: 09/01/2022

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S3.0

HEADER SCHEDULE		
TAG	SIZE	JACKS (EACH END)
A	(2) 2x6	(1)
B	(2) 2x8	(2)
C	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LSL/LVL	(3)
F	(3) 2x6	(1)
G	(3) 2x8	(2)
H	(3) 2x10	(2)
I	(3) 2x12	(3)

NOTES:  
 1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.  
 2. ALL HEADERS TO BE DROPPED (UNO).  
 3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (UNO).

KING STUD SCHEDULE	
MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.
3'-0"	(1)
4'-0"	(2)
8'-0"	(3)
12'-0"	(5)
16'-0"	(6)

WALL STUD SCHEDULE (10 FT HEIGHT)				
STUD SIZE	STUD SPACING (O.C.)			
	ROOF ONLY	ROOF & 1 FLOOR	ROOF & 2 FLOORS	NON-LOAD BEARING
2x4	24"	16"	12"	24"
2x6	24"	24"	16"	24"

NOTES:  
 1. BRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C.  
 2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16" O.C.  
 3. TWO STORY WALLS SHALL BE FRAMED w/ 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED w/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.  
 4. FOR STUDS GREATER THAN 10'-0" IN HEIGHT, REFER TO TWO STORY WALL NOTE FOR FRAMING REQUIREMENT.

ALL HEADERS WHERE BRICK IS USED, TO BE:  
 ① LINTEL (UNO).

LINTEL SCHEDULE:  
 STEEL ANGLES TO HAVE MINIMUM 4" BEARING ONTO BRICK AT EACH END.

① L3x3x1/4"  
 ② L5x3"x1/4"  
 ③ L5x3-1/2"x5/16"  
 ④ L5x3-1/2"x5/16" ROLLED OR EQUAL ARCHED COMPONENT.

SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR ③)

SHADE WALLS INDICATED LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS. BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY CARUSO HOMES COMPLETED/REVISED ON 08/29/2022. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

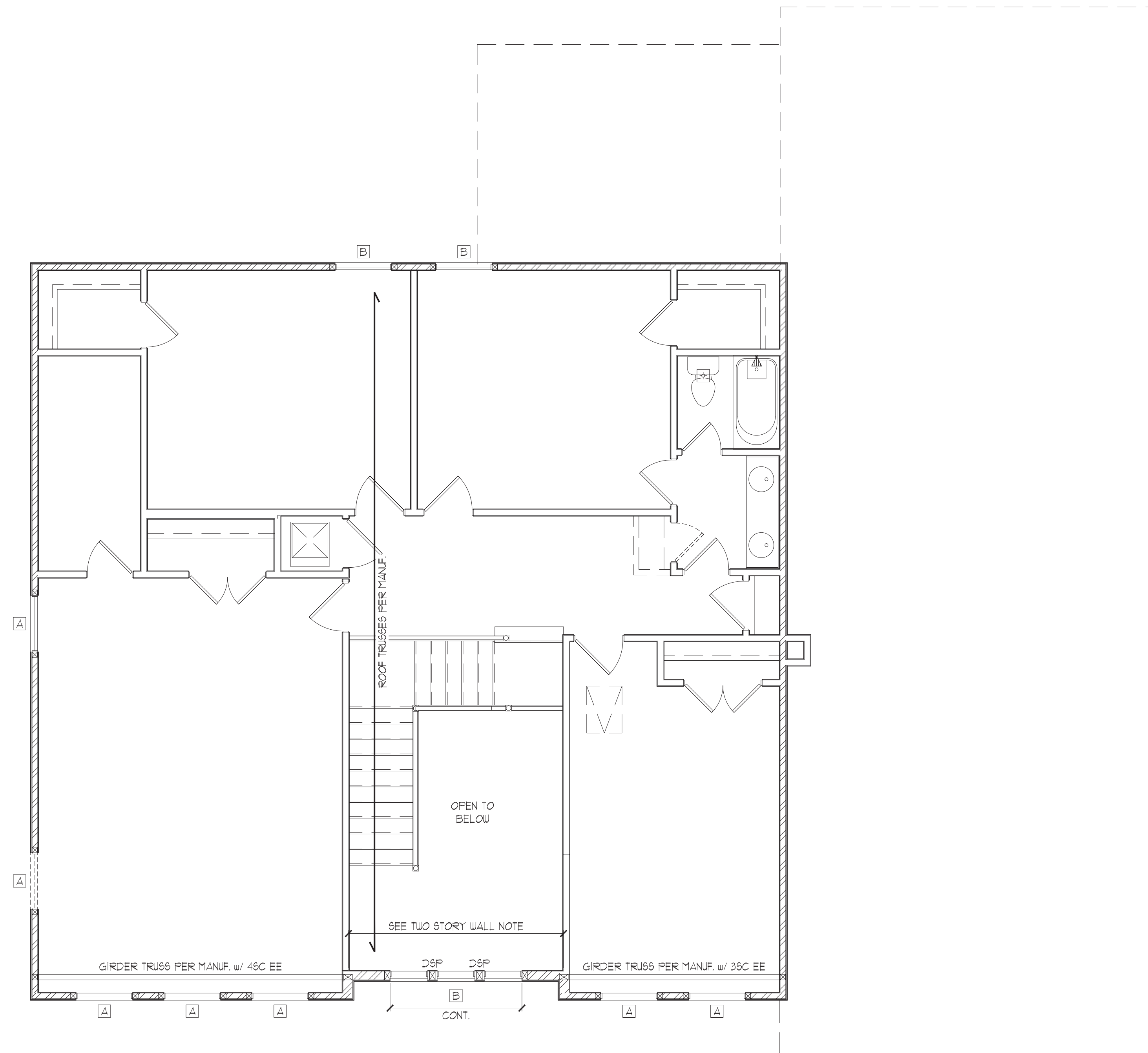
**STRUCTURAL MEMBERS ONLY**

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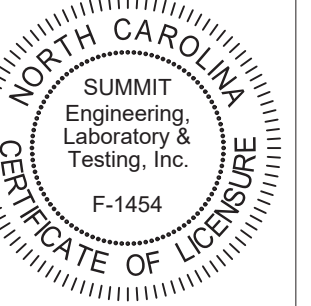
STRUCTURAL ANALYSIS BASED ON 2018 NCR.

**SECOND FLOOR FRAMING PLAN**

SCALE: 1/4"=1'

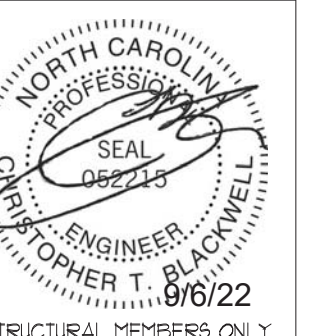


ELEVATION I



CLIENT: CARUSO HOMES  
 206 HIGH HOUSE ROAD, SUITE 205  
 CARY, NC 27511

PROJECT: NCI 19 (Lexington II I)  
 Second Floor Framing Plan



DRAWING  
 DATE: 09/01/2022  
 SCALE: 3/16" = 1'-0"  
 PROJECT #: 423183  
 DRAWN BY: EPB  
 CHECKED BY: CTB

ORIGINAL INFORMATION  
 PROJECT #: 423183 DATE: 09/01/2022

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



TRUSS UPLIFT CONNECTOR SCHEDULE

MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO END
600 LBS	H2.5A	PER WALL SHEATHING & FASTENERS	
1200 LBS	(2) H2.5A	C916 (END ± 11')	DTT2Z
1450 LBS	HT920	C916 (END ± 11')	DTT2Z
2000 LBS	(2) MT920	(2) C916 (END ± 11')	DTT2Z
2900 LBS	(2) HT920	(2) C916 (END ± 11')	HTT4
3685 LBS	LGT3-SD92.5	M9TCB2	HTT4

1. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
2. UPLIFT VALUES LISTED ARE FOR SYP #2 GRADE MEMBERS.
3. REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.
4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: 1ST FLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

REFER TO DETAIL 5/D3F FOR EYEBROW, RETURN OR SHED ROOF FRAMING REQUIREMENTS. (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R02.1111 WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R02.3.5 OF THE 2018 NCR. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

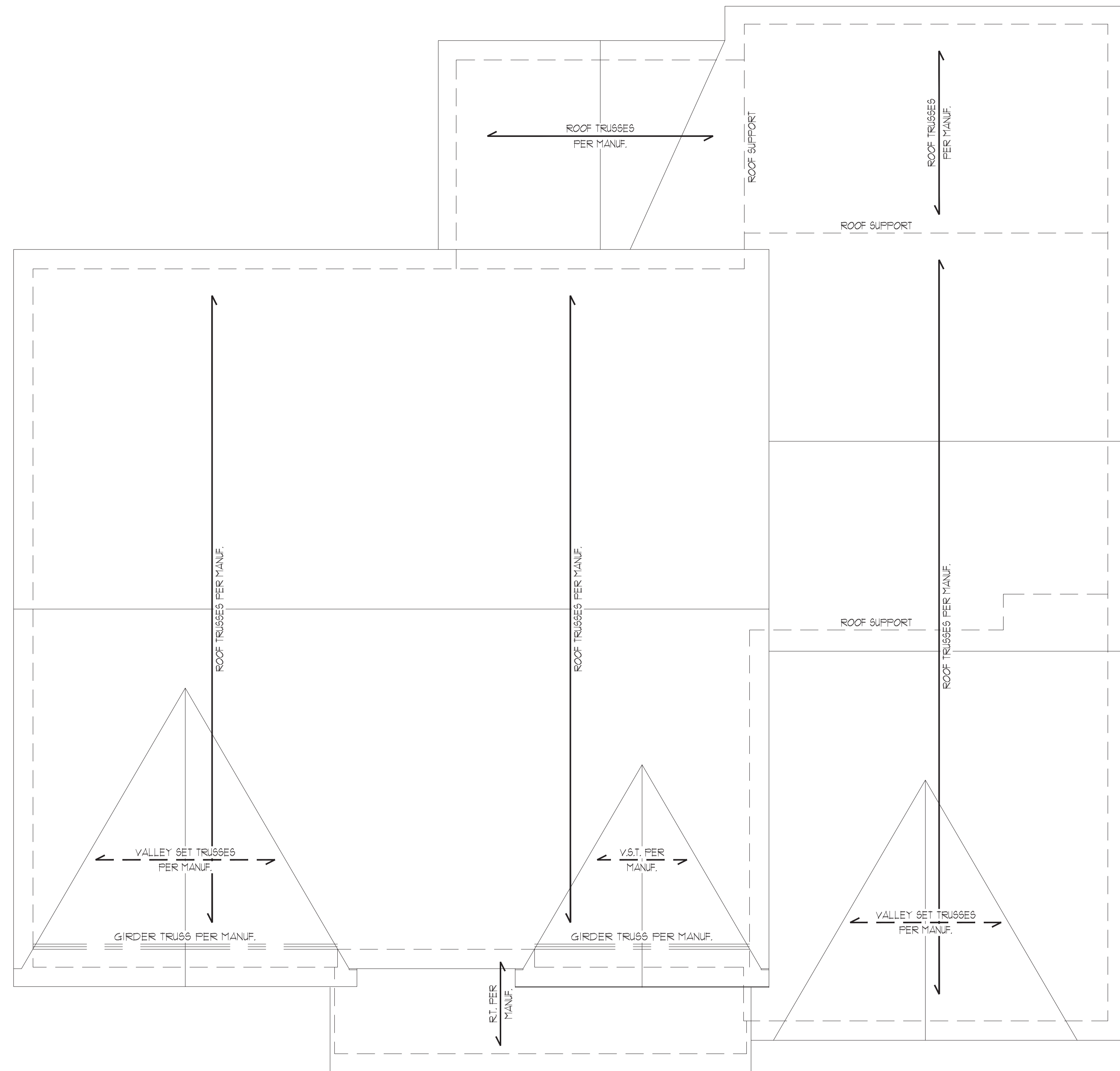
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**STRUCTURAL MEMBERS ONLY**  
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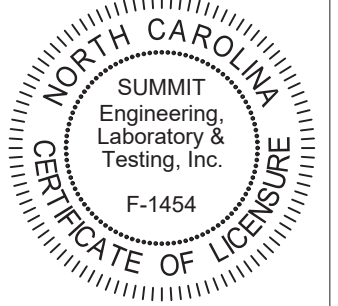
STRUCTURAL ANALYSIS BASED ON 2018 NCR.

ROOF FRAMING PLAN

SCALE: 1/4"=1'

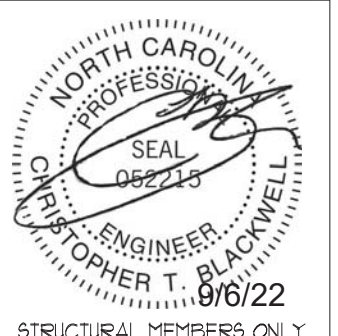


ELEVATION I



CLIENT: CARUSO HOMES  
 206 HIGH HOUSE ROAD, SUITE 205  
 CARY, NC 27511

PROJECT: NCI 19 (Lexington II I)  
 Roof Framing Plan



DATE: 09/02/2022  
 SCALE: 3/16" = 1'-0"  
 PROJECT #: 423183  
 DRAWN BY: EPB  
 CHECKED BY: CTB

PROJECT #: 423183 DATE: 09/02/2022

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET S5.0

REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			# PANEL EDGES	# INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 7" O.C.	5d COOLER NAILS** @ 17" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
FF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1

\*OR EQUIVALENT PER TABLE R102.3.5

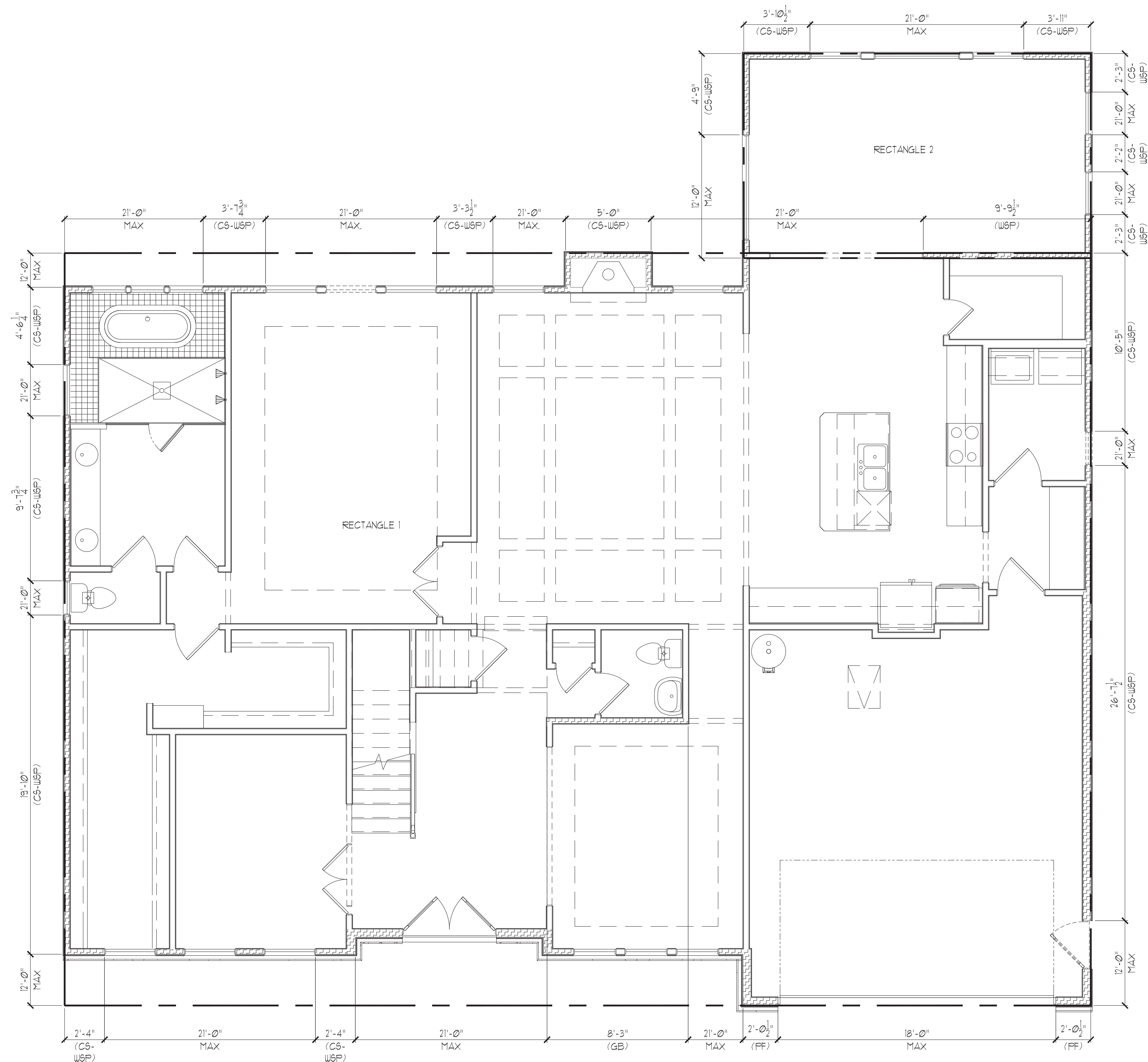
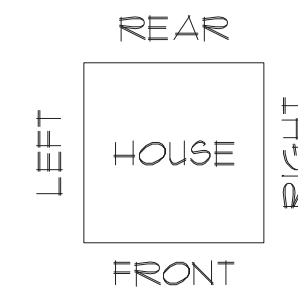
**BRACED WALL NOTES:**

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2018 NORTH CAROLINA RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R602.10.1.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.1.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
- MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 40' OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.4.3 OF THE 2018 NCRC OR DETAIL 21/D2f.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.4.
- BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.5.
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.4.6.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.1 (UNO).
- ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. ABBREVIATIONS:

GB = GYPSUM BOARD  
 CS-XXX = CONT. SHEATHED  
 FF = PORTAL FRAME  
 WSP = WOOD STRUCTURAL PANEL  
 ENG = ENGINEERED SOLUTION  
 FF-ENG = ENG. PORTAL FRAME

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.4 AND FIGURE R602.10.3(1) OF THE 2018 NCRC.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCRC.



ELEVATION 1

FIRST FLOOR BRACING (FT)		
	RECTANGLE 1	
	REQUIRED	PROVIDED
FRONT SIDE	14.8	14.9
LEFT SIDE	19.6	34.0
REAR SIDE	14.8	14.9
RIGHT SIDE	19.6	31.0
	RECTANGLE 2	
	REQUIRED	PROVIDED
FRONT SIDE	2.6	6.1
LEFT SIDE	3.4	4.1
REAR SIDE	2.6	1.1
RIGHT SIDE	3.4	6.6

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**STRUCTURAL MEMBERS ONLY**

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

**FIRST FLOOR BRACING PLAN**

SCALE: 1/4" = 1'



REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			* PANEL EDGES	** INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 1" O.C.	5d COOLER NAILS** @ 1" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
FF	WOOD STRUCTURAL PANEL	1/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1

\*OR EQUIVALENT PER TABLE R102.3.5

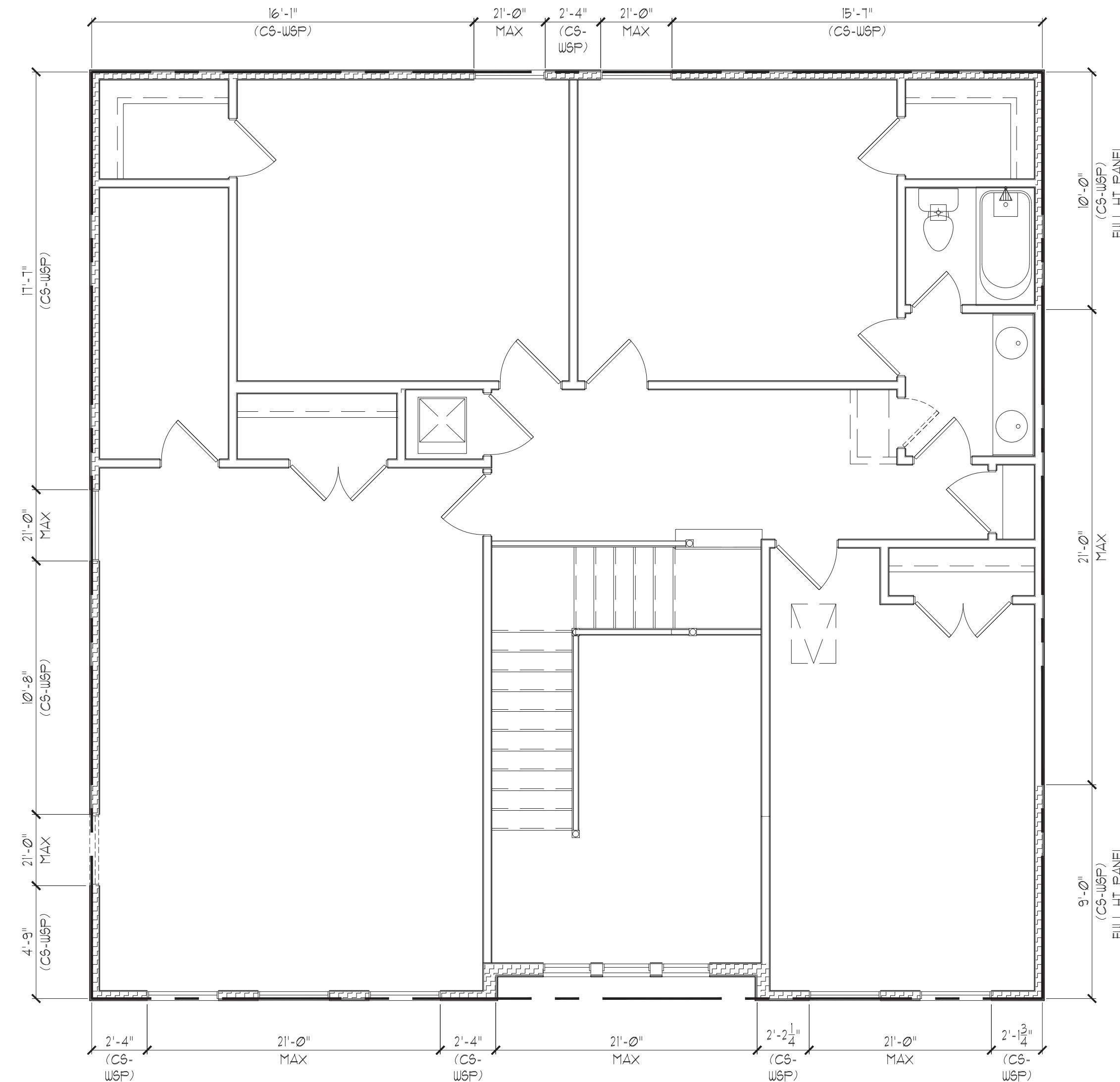
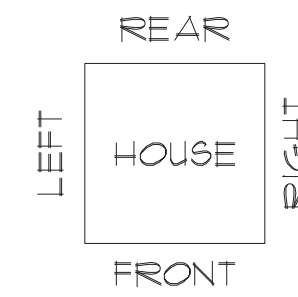
**BRACED WALL NOTES:**

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- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
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- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.1.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (NO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
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- MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 40" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.4.3 OF THE 2018 NCRS OR DETAIL 21/D21.
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- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.4.6.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.1 (NO).
- ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. ABBREVIATIONS:

GB = GYPSUM BOARD  
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INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.4 AND FIGURE R602.10.3(1) OF THE 2018 NCRS.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCRS.



ELEVATION 1

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY CARUSO HOMES COMPLETED/REVISED ON 09/29/2022. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRS.

**SECOND FLOOR BRACING PLAN**

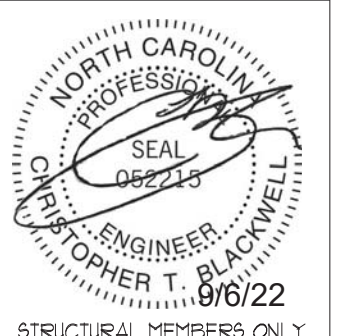
SCALE: 1/4"=1'

SECOND FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
	REQUIRED	PROVIDED
FRONT SIDE	5.1	8.9
LEFT SIDE	5.9	33.0
REAR SIDE	5.1	34.0
RIGHT SIDE	5.9	19.0



CLIENT: CARUSO HOMES  
 206 HIGH HOUSE ROAD, SUITE 205  
 CARY, NC 27511

PROJECT: NCI 19 (Lexington II I)  
 Second Floor Bracing Plan



DRAWING DATE: 09/02/2022  
 SCALE: 1/4"=1'-0" (1/4"=1'-0")  
 PROJECT # 423153  
 DRAWN BY: EBS  
 CHECKED BY: CTB  
 ORIGINAL INFORMATION PROJECT # 423153 DATE 09/02/2022

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET S8.0