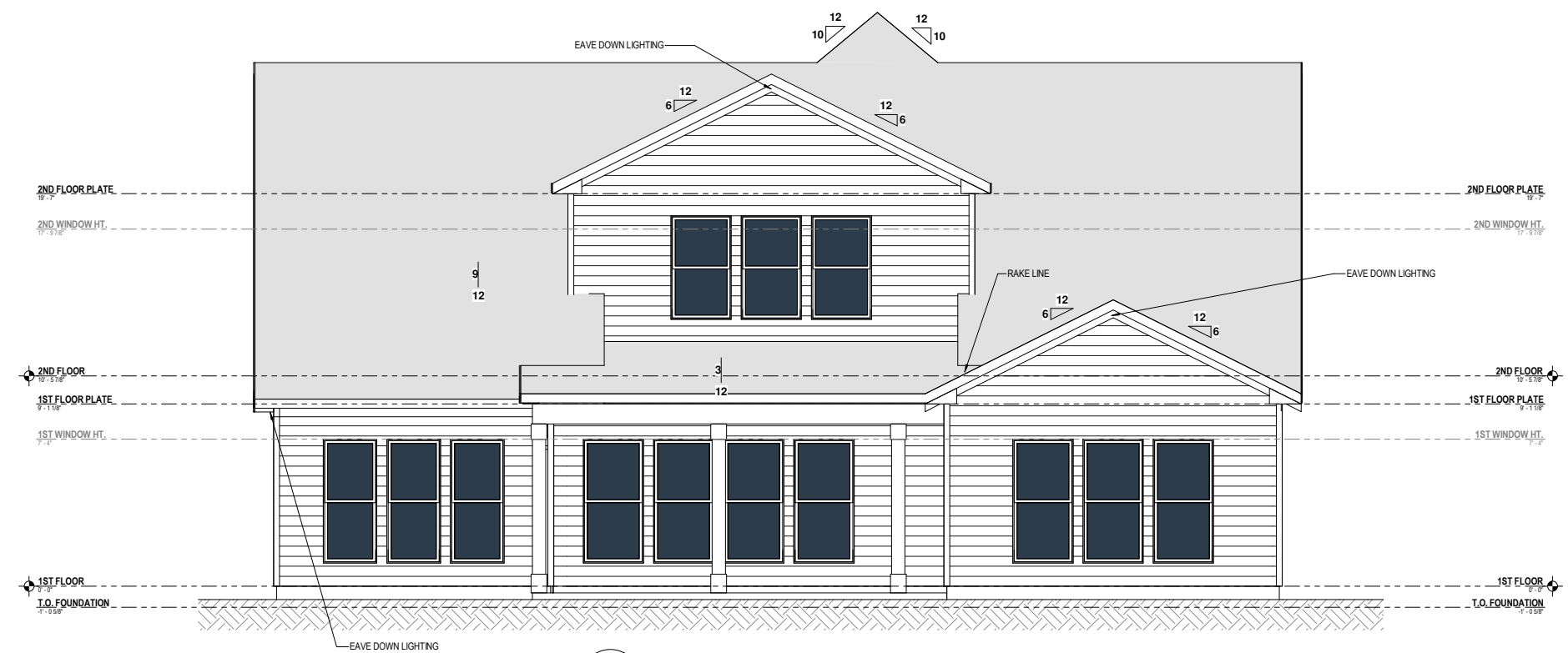


1 FRONT ELEVATION
 1-1a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

Heated SQFT - 1	
Description	Area
1st Floor Livable	1879 SF
2nd Floor Livable	899 SF
Grand total	2778 SF

Unheated SQFT - 1	
Description	Area
Front Porch	128 SF
Garage	439 SF
Rear Deck/Opt Scr Porch	189 SF



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

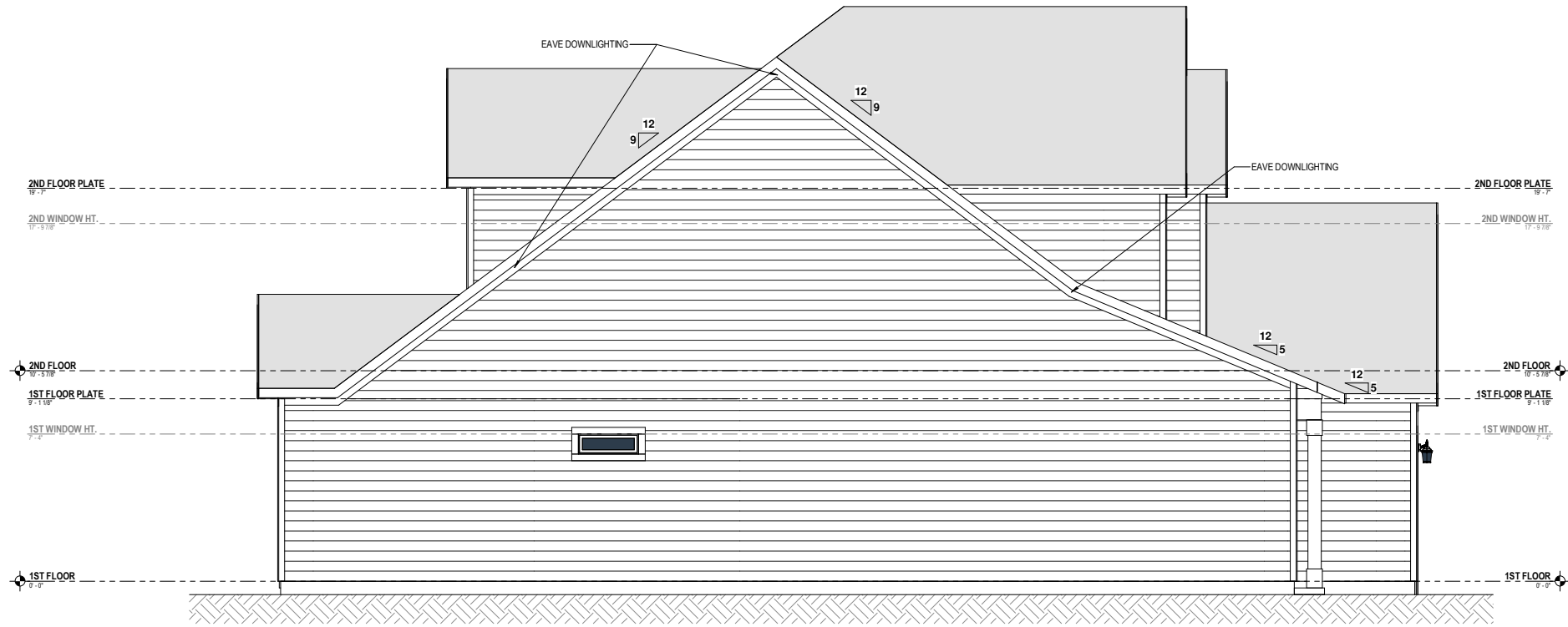


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 Original Design by Others

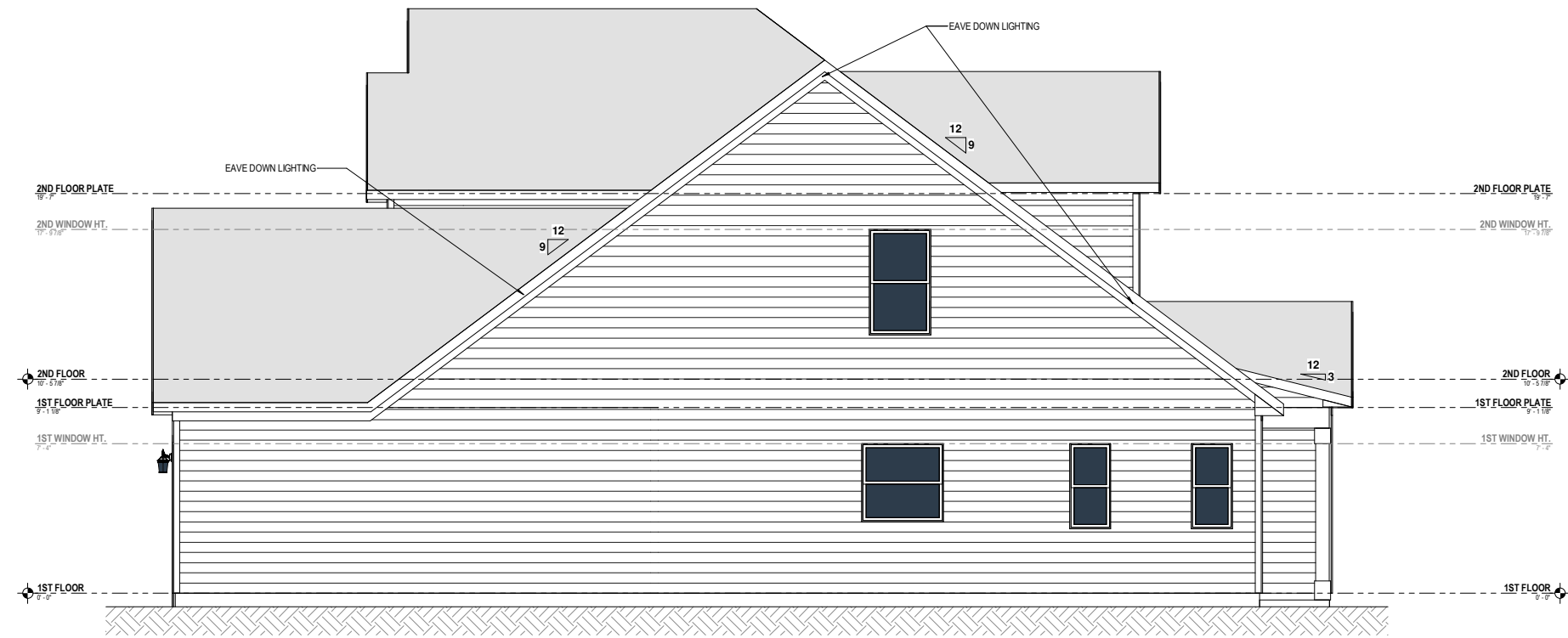
Davidson OYL - NC 1 94
 Caruso Homes
 Front and Rear Elevations - 1

Date: 01/25/23
 Drawn By: sgm
 Checked By: sgm

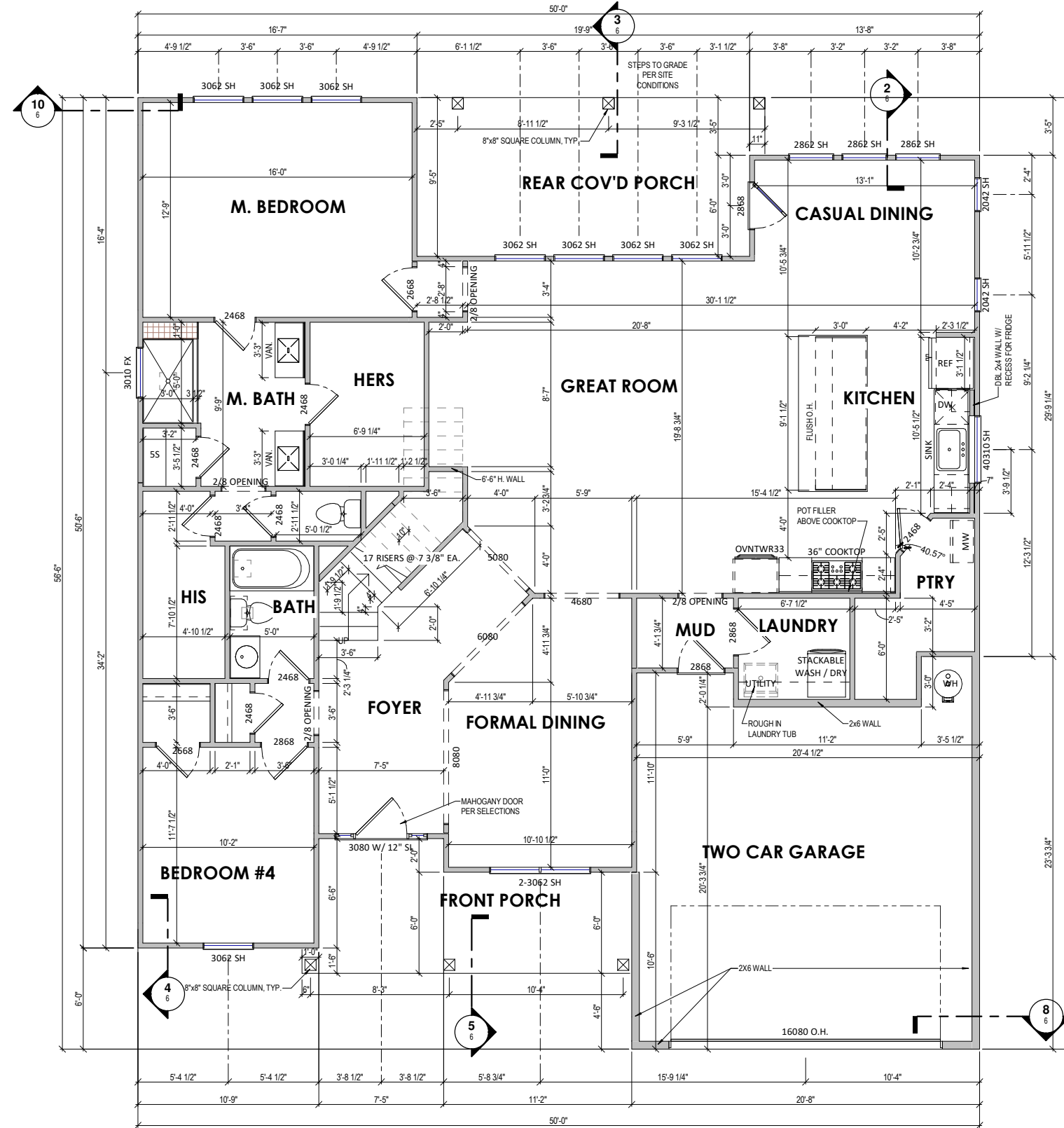
1-1a



1 LEFT ELEVATION
1-1b 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



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



1 FIRST FLOOR
 1-2a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



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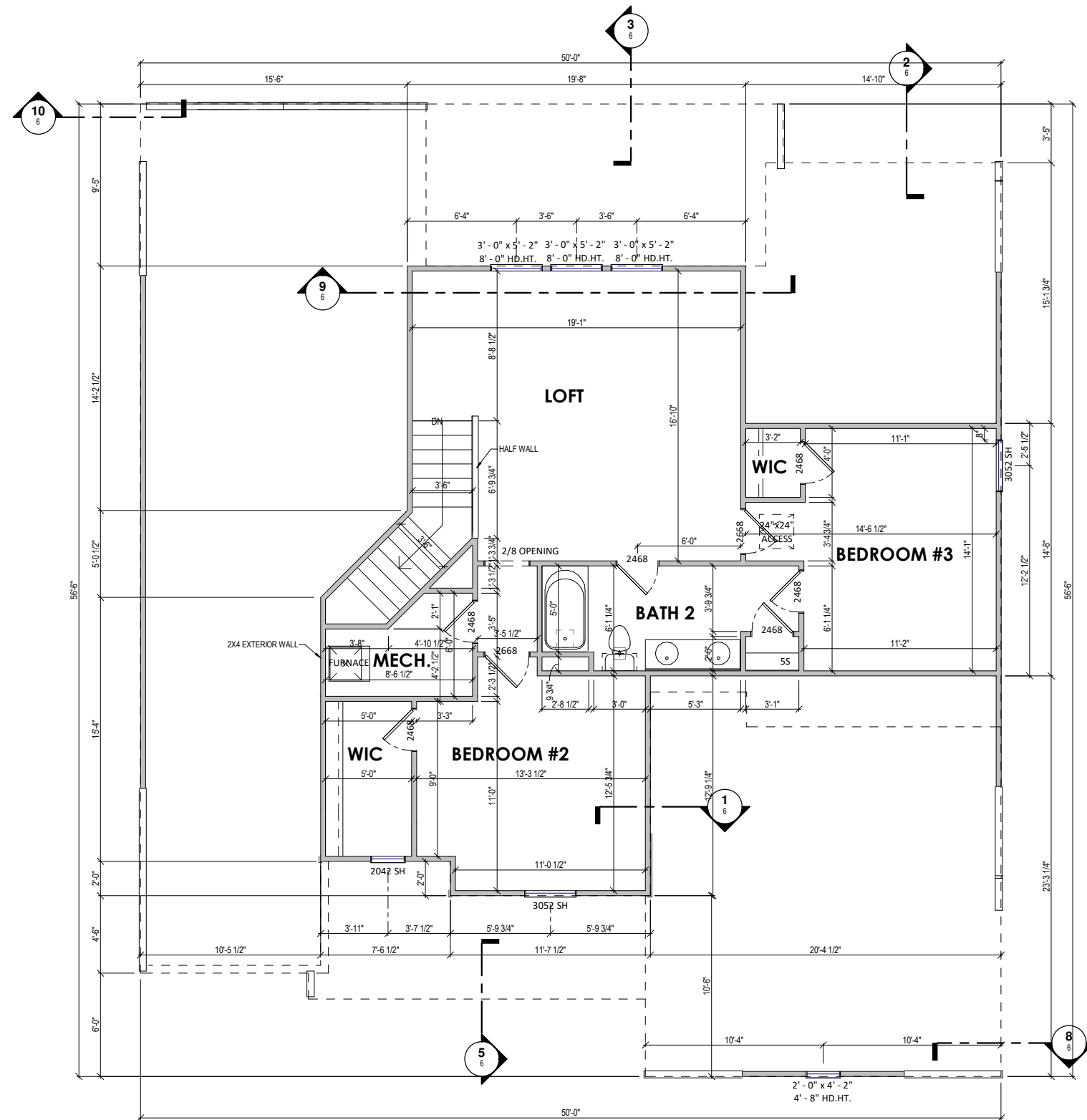
First Floor Plan - 1

Date: 01/25/23

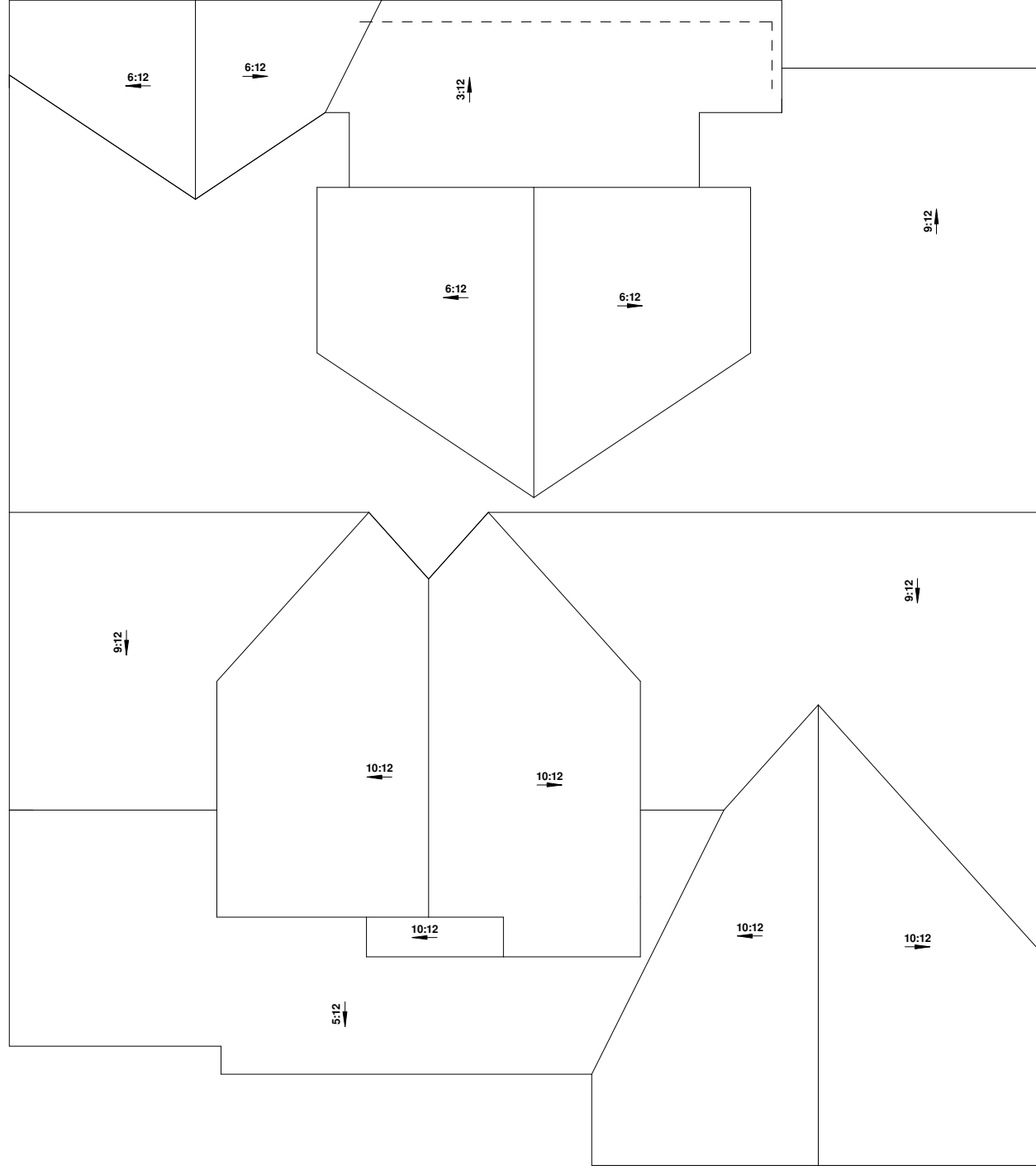
Drawn By: SGM

Checked By: SGM

1-2a



1 SECOND FLOOR
 1-2b 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



Roof Vent Calculations		
SQFT. OF ROOF	2319	/150 =
		1,546 SQFT. REQ'D

1 ROOF PLAN
 1-3 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



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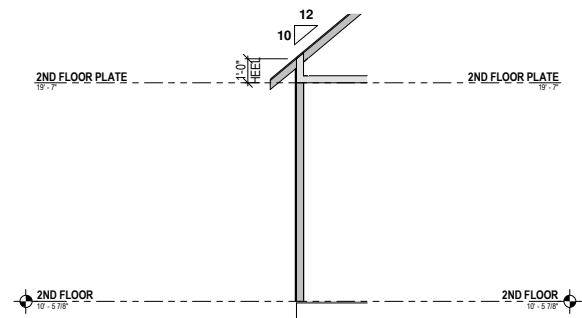
Roof Plan - 1

Date: 01/25/23

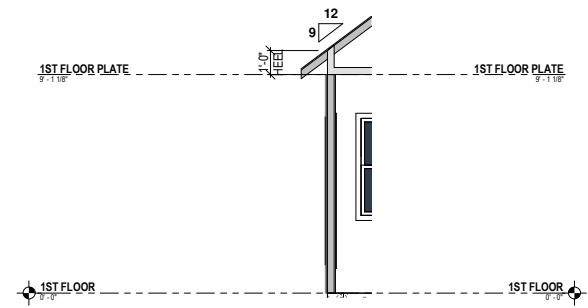
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Checked By: SGM

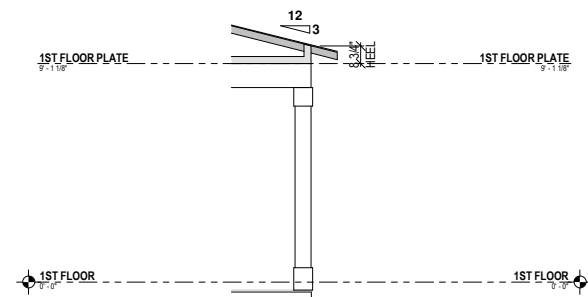
1-3



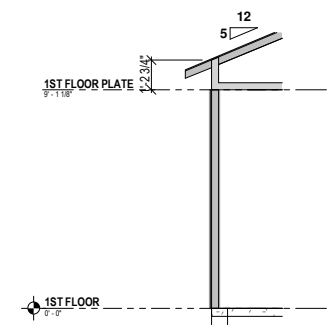
1 BEDROOM 2
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



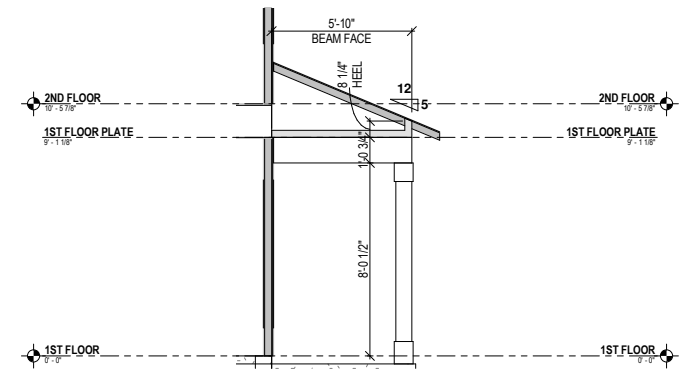
2 CASUAL DINING
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



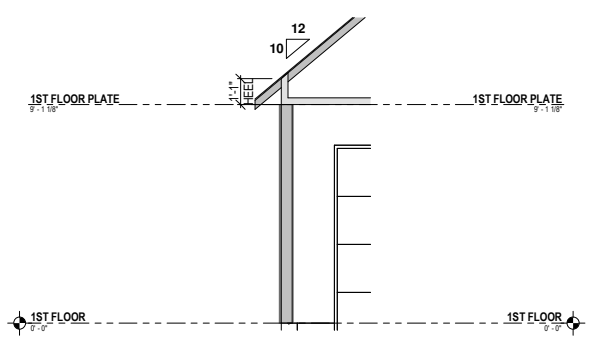
3 COV'D/SCREENED PORCH
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



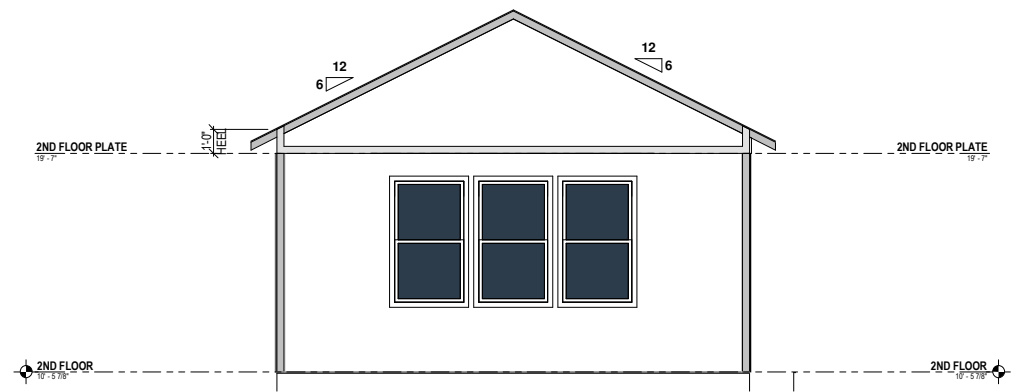
4 BED 4
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



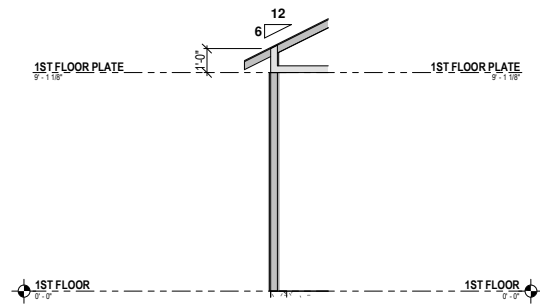
5 FRONT PORCH - ELEV 1
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



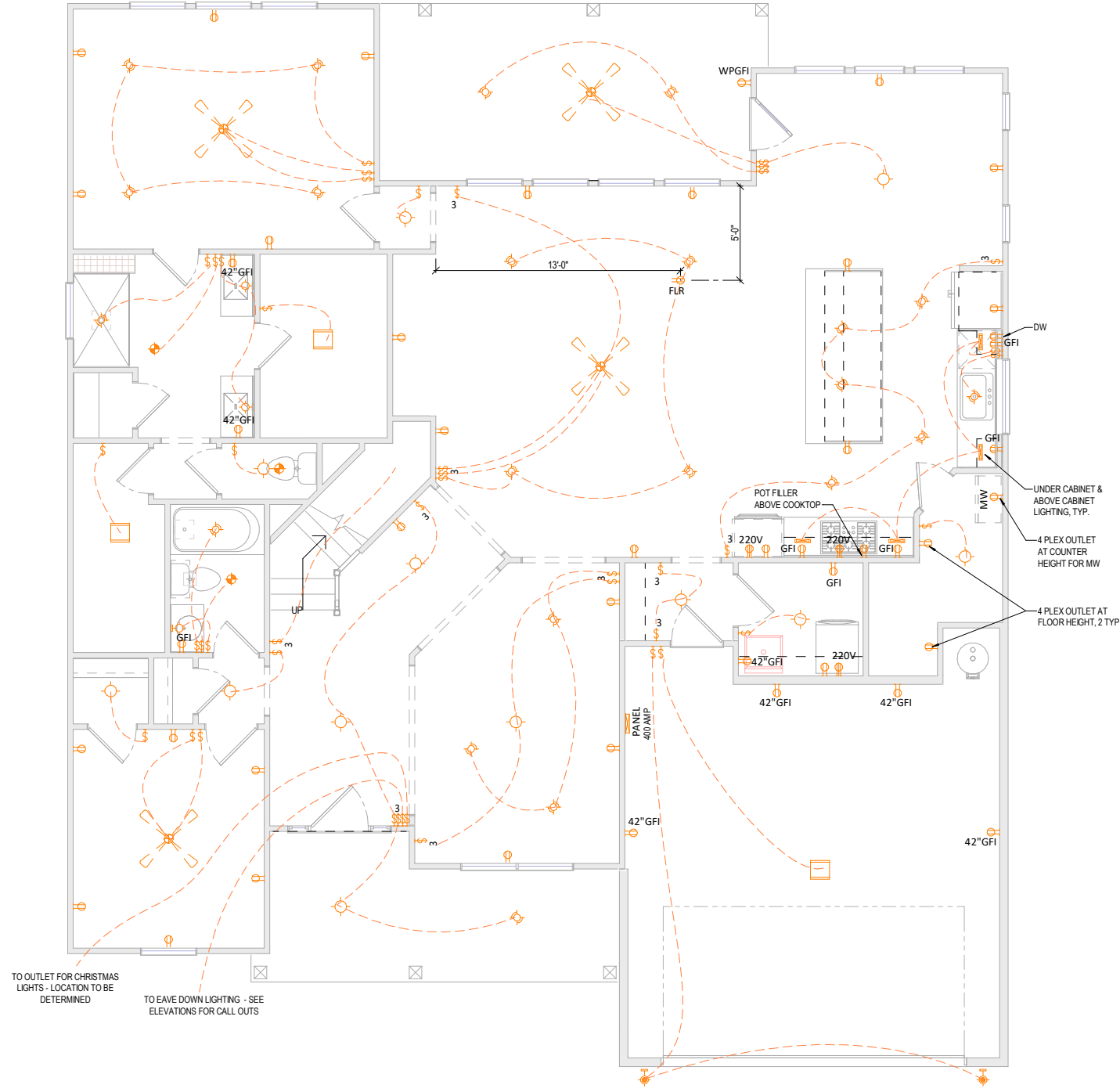
8 GARAGE
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



9 LOFT
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



10 MASTER BEDROOM
 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



TO OUTLET FOR CHRISTMAS LIGHTS - LOCATION TO BE DETERMINED

TO EAVE DOWN LIGHTING - SEE ELEVATIONS FOR CALL OUTS

1 **FIRST FLOOR ELECTRICAL**
7a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

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Original Design by Others

Davidson OYL - NC 1 94

Caruso Homes

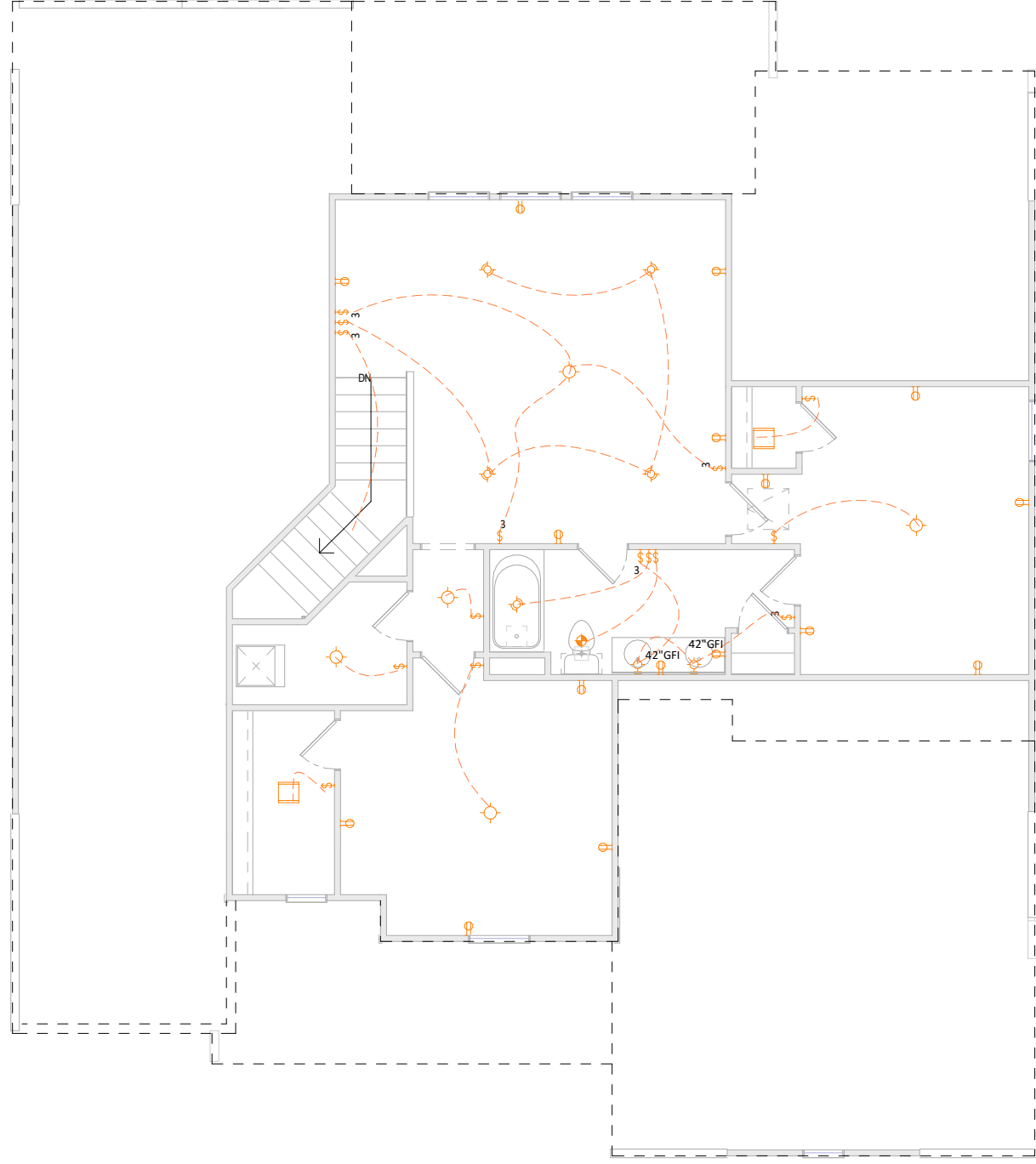
First Floor Electrical

Date: 01/25/23

Drawn By: sgm

Checked By: sgm

7a



1 SECOND FLOOR ELECTRICAL
7b 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

Date: 01/25/23
 Drawn By: sgm
 Checked By: sgm

Davidson OYL - NC 1 94
 Caruso Homes
 Second Floor Electrical

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Original Design by Others



7b

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 I 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 HOMES COMPLETED/REVISED ON 01/23/2023. 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.

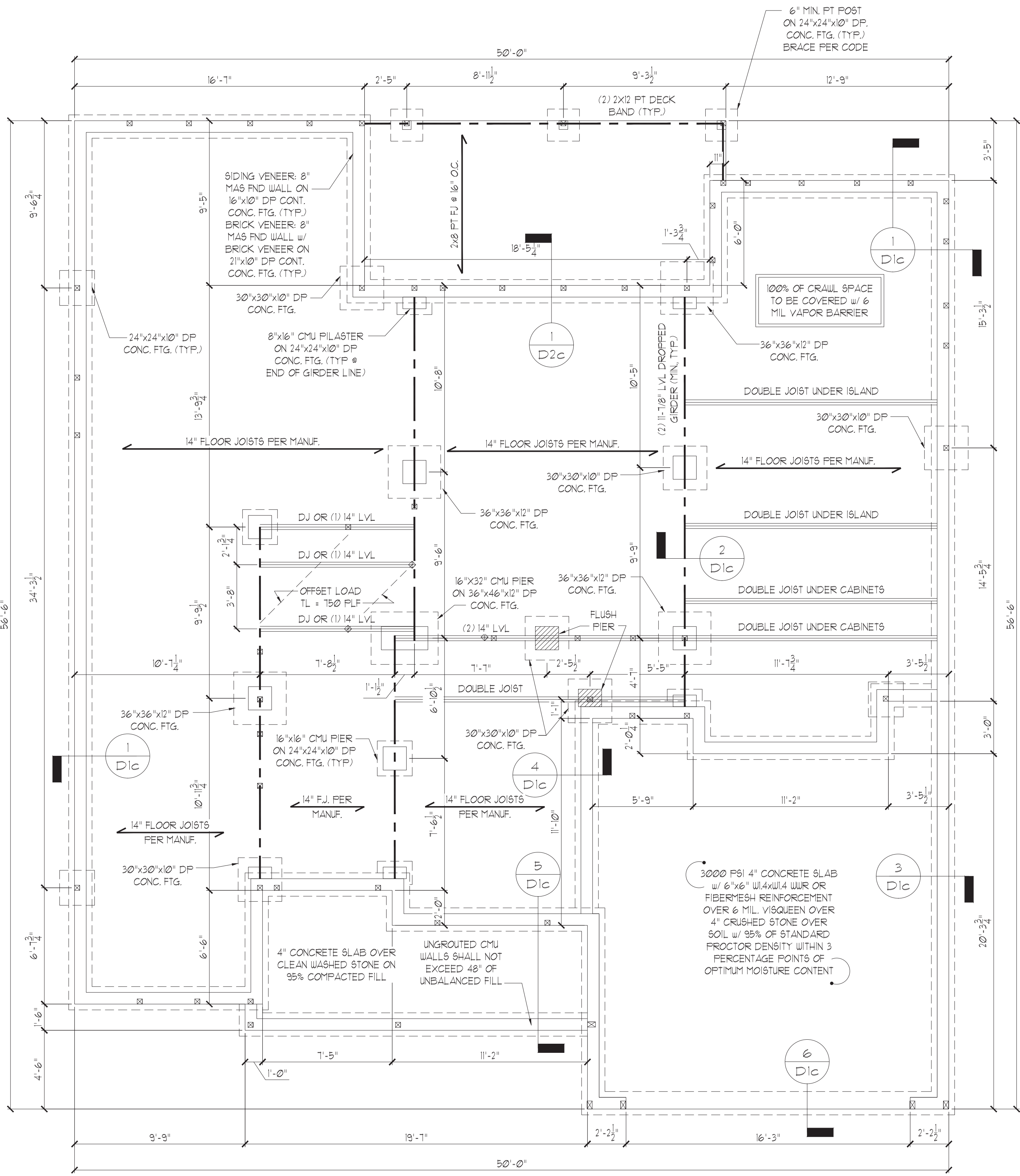
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

CRAWL SPACE FOUNDATION PLAN

SCALE: 1/4" = 1'



ELEVATION 1

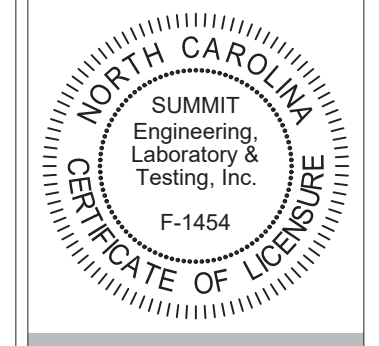
CRAWL SPACE VENTILATION:
 1879 SQ. FT. / 150 = 12.5 SQ. FT. REQ'D.
 12.5 SQ. FT. / 0.45 PER VENT = 28 VENTS REQ'D.

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

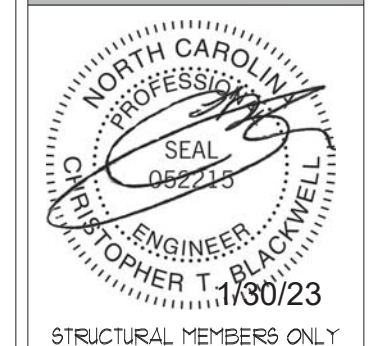
STUD SIZE	MAXIMUM STUD HEIGHT		
	UP TO 48"	4'-1" TO 6'-0"	6'-1" TO 8'-0"
2x4	16"	12"	N/A
2x6	16"	16"	12"

- 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 HOMES
 206 HIGH HOUSE ROAD, SUITE 205
 CARY, NC 27511

PROJECT: NCI 94 (Davidson I)
 Crawl Space Foundation



DATE: 01/21/2023
 SCALE: 3/16" = 1'-0"
 PROJECT: 431595
 DRAWN BY: EPB
 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/D/31. 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 FL = FLOOR LOAD

WALL STUD SCHEDULE (10 FT HEIGHT)

STUD SIZE	STUD SPACING (O.C.)			
	ROOF ONLY	ROOF 4 FLOOR	ROOF 4 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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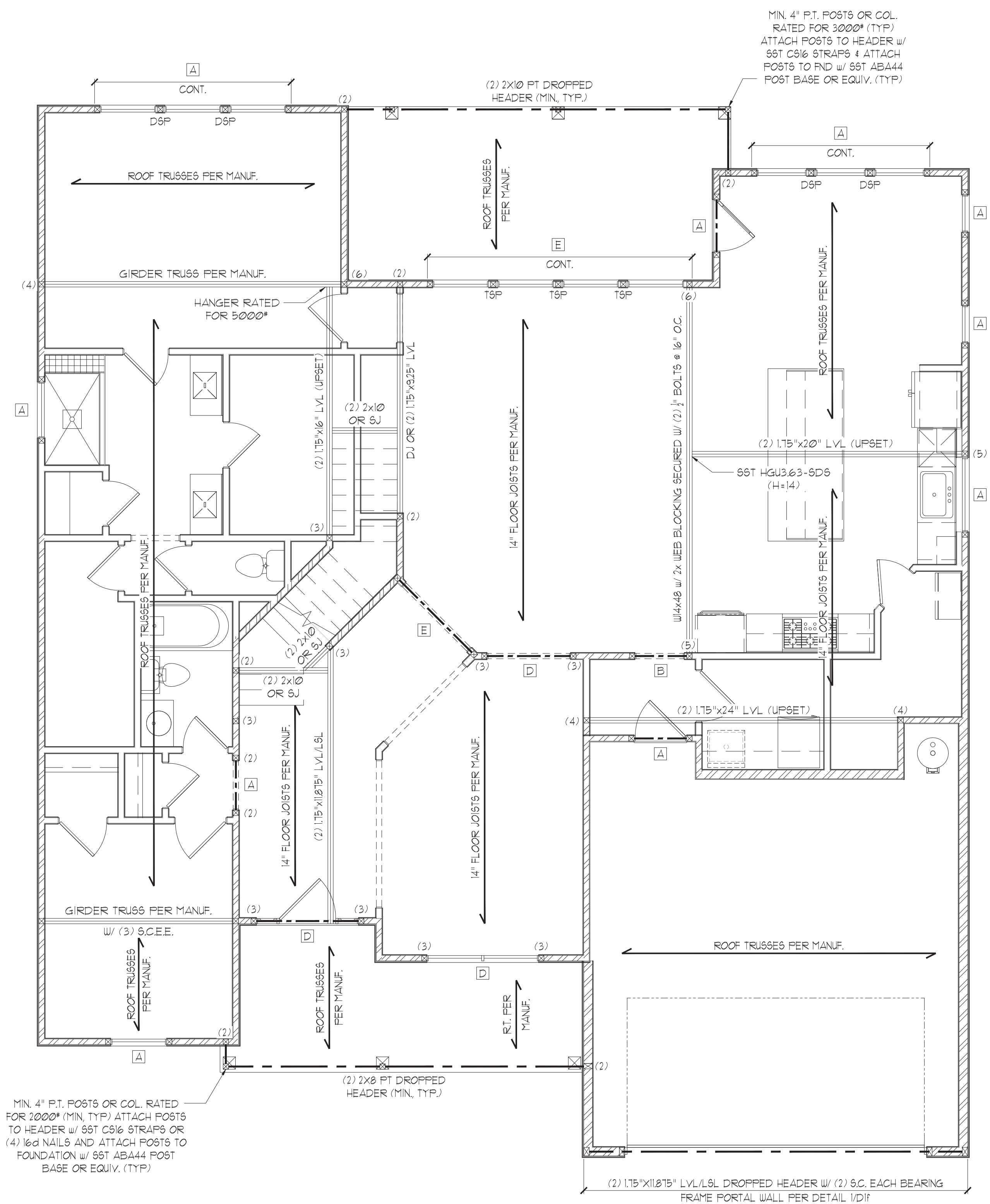
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

FIRST FLOOR FRAMING PLAN

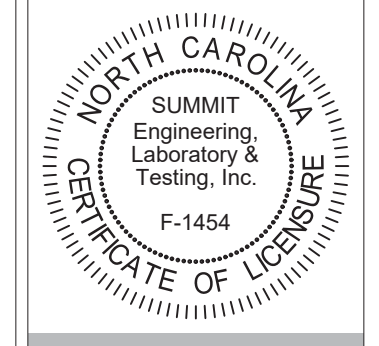
SCALE: 1/4" = 1'



ELEVATION 1

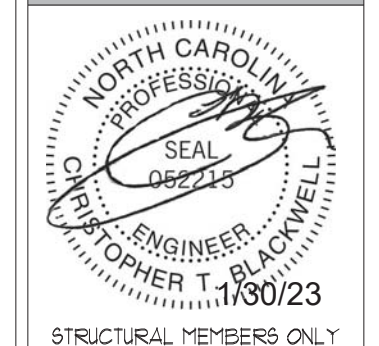
HEADER SCHEDULE		
TAG	SIZE	JACKS (EACH END)
A	(2) 2x6	(1)
B	(2) 2x8	(2)
C	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LVL/LVL	(3)
F	(3) 2x6	(1)
G	(3) 2x8	(2)
H	(3) 2x10	(2)
I	(3) 2x12	(3)

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 HOMES
206 HIGH HOUSE ROAD, SUITE 205
CARY, NC 27511

PROJECT: NCI 94 (Davidson 1)
First Floor Framing Plan



DRAWING DATE: 01/21/2023
SCALE: 3/16" = 1'-0"
PROJECT: 431393
DRAWN BY: EPB
CHECKED BY: CTB
ORIGINAL INFORMATION PROJECT: 431393 DATE: 01/21/2023

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 L5x3-1/2x5/16"
 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.

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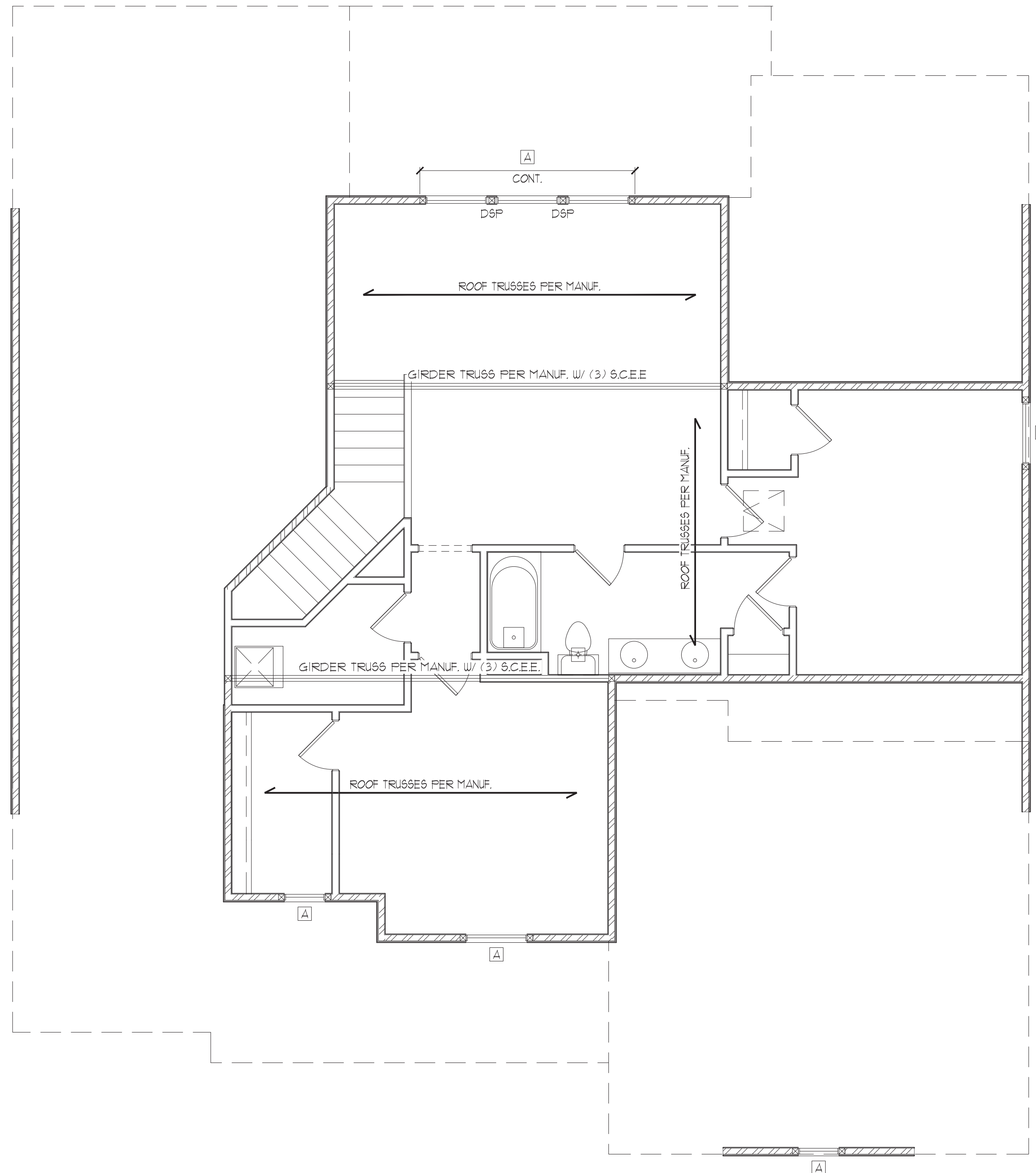
STRUCTURAL MEMBERS ONLY

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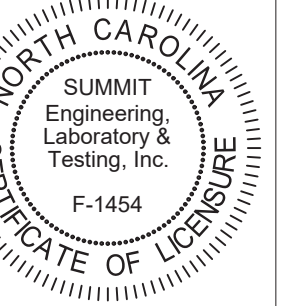
STRUCTURAL ANALYSIS BASED ON 2018 NCR.

SECOND FLOOR FRAMING PLAN

SCALE: 1/4"=1'

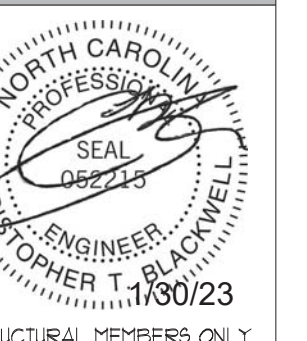


ELEVATION 1



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

PROJECT:
 NCI 94 (Davidson I)
 Second Floor Framing Plan



STRUCTURAL MEMBERS ONLY

DRAWING
 DATE: 01/21/2023
 SCALE: 3/16" = 1'-0"
 PROJECT #: 4231593
 DRAWN BY: EPB
 CHECKED BY: CTB

ORIGINAL INFORMATION
 PROJECT #: 4231593 DATE: 01/21/2023

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

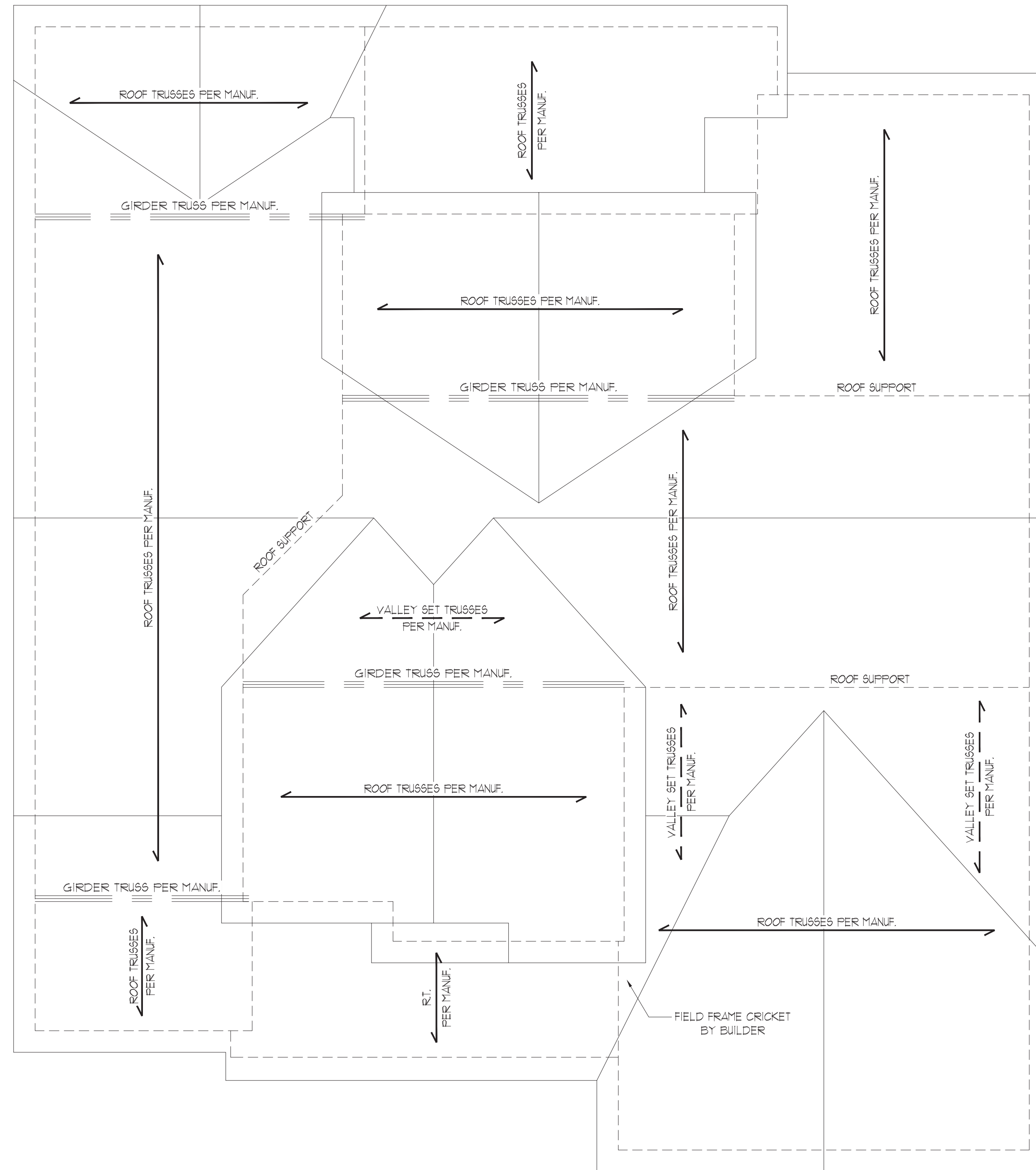
- ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
- UPLIFT VALUES LISTED ARE FOR STYP #2 GRADE MEMBERS.
- REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.
- 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 R602.11.11 WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCR. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.



ELEVATION 1

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STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

ROOF FRAMING PLAN

SCALE: 1/4"=1'

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

PROJECT:
NCI 94 (Davidson I)
Roof Framing Plan

DRAWING
DATE: 01/21/2023
SCALE: 3/16" = 1'-0"
SHT 18'-0" x 0"
PROJECT #: 4231595
DRAWN BY: EPB
CHECKED BY: CTB

ORIGINAL INFORMATION
PROJECT #: 4231595 DATE: 01/21/2023

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			# PANEL EDGES	# INTERMEDIATE SUPPORTS
CS-UWP	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** # 1" O.C.
UWP	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:

- 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/D2.
- 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).
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GB = GYPSUM BOARD
 CS-XXX = CONT. SHEATHED
 FF = PORTAL FRAME
 UWP = 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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY CARUSO HOMES COMPLETED/REVISED ON 01/23/2023. 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.

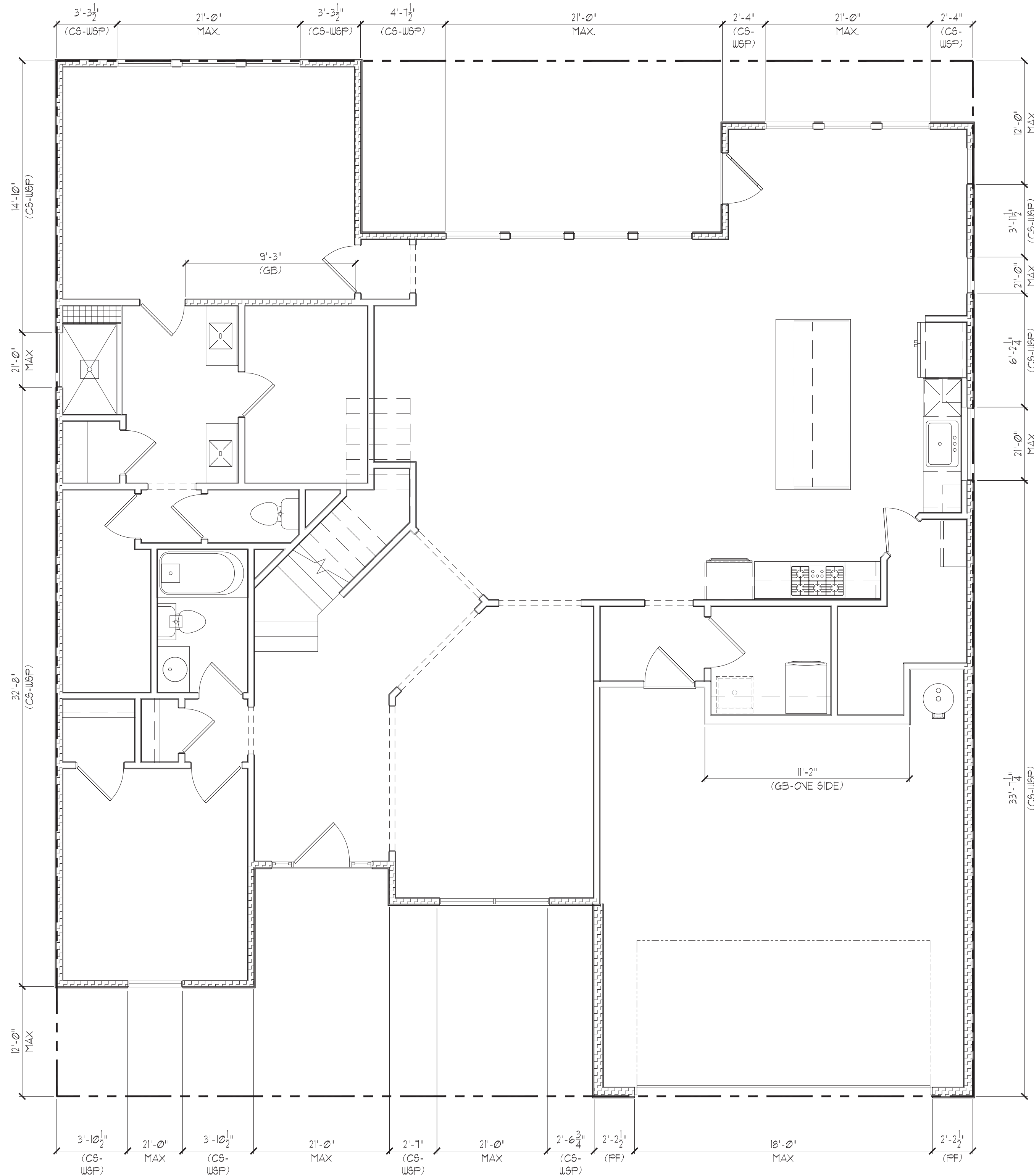
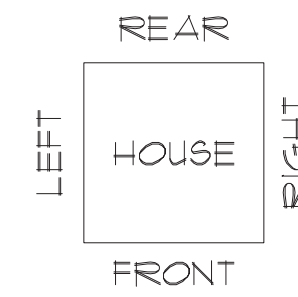
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

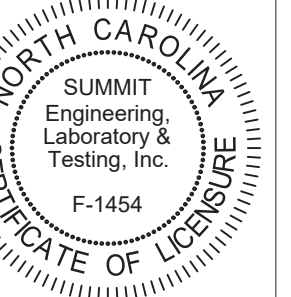
FIRST FLOOR BRACING PLAN

SCALE: 1/4"=1'



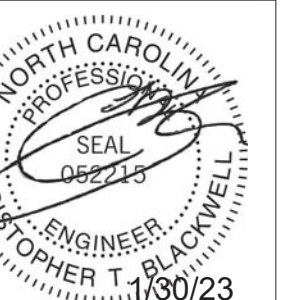
ELEVATION 1

FIRST FLOOR BRACING (FT)		
	CONTINUOUS SHEATHING METHOD	
	REQUIRED	PROVIDED
FRONT SIDE	202	223
LEFT SIDE	178	415
REAR SIDE	202	205
RIGHT SIDE	178	43.1



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

PROJECT:
 NCI 94 (Davidson 1)
 First Floor Bracing Plan



DATE: 01/21/2023
 SCALE: 1/4"=1'
 PROJECT #: 431595
 DRAWN BY: EBS
 CHECKED BY: CTB
 ORIGINAL INFORMATION
 PROJECT #: 431595 DATE: 01/21/2023

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S7.0

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	GYP SUM 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

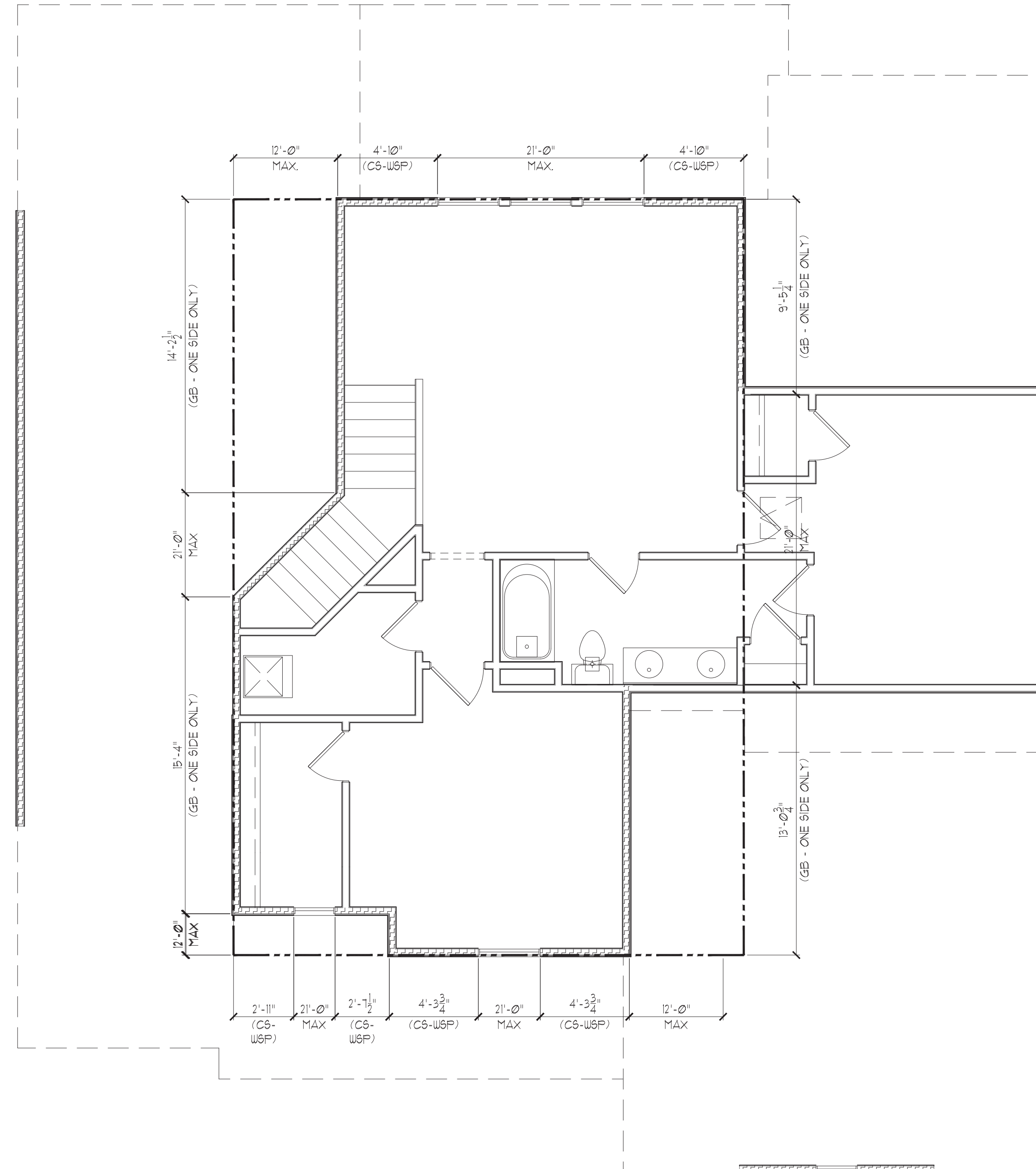
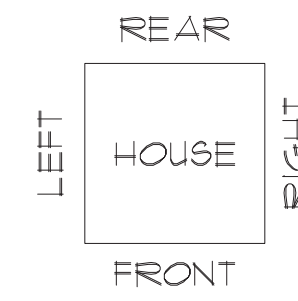
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INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.4 AND FIGURE R602.10.3.1 OF THE 2018 NCRC.

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.



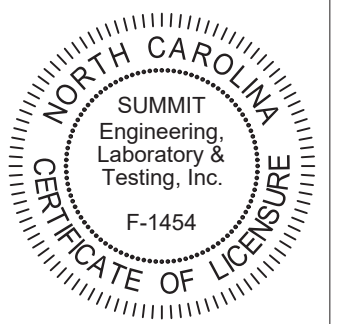
ELEVATION 1

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 STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

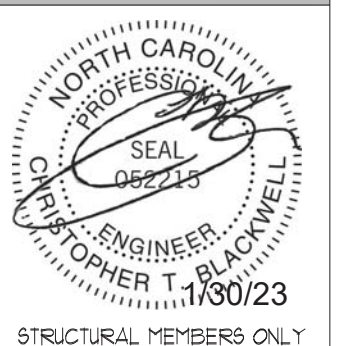
SECOND FLOOR BRACING PLAN
 SCALE: 1/4" = 1'

SECOND FLOOR BRACING (FT)		
	CONTINUOUS SHEATHING METHOD	
	REQUIRED	PROVIDED
FRONT SIDE	6.5	14.1
LEFT SIDE	4.4	7.3
REAR SIDE	6.5	9.6
RIGHT SIDE	4.4	5.6



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

PROJECT:
 NCI 94 (Davidson I)
 Second Floor Bracing Plan



DRAWING
 DATE: 01/21/2023
 SCALE: 3/16" = 1'-0"
 DRAWN BY: EPB
 CHECKED BY: CTB

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS
 SHEET
S8.0

Attach rim board to joist w/1-100 box nail top & bottom of joist.

Rim board

Must have 1 3/4" minimum joist bearing at ends.

For information on lateral load capacity refer to literature or local authority.

2x4 or 2x6 stud wall

1/2" nail typically 16d (3/4") #12 ec.

Rim board

1/2" nail typically 16d (3/4") #12 ec.

Floor sheathing

Deck nail typically 16d (3/4") #12 ec.

Wall sheathing

Joist spanning in either direction.

CONNECTION OF MULTIPLE PIECES OF TOP-LOADED BEAMS

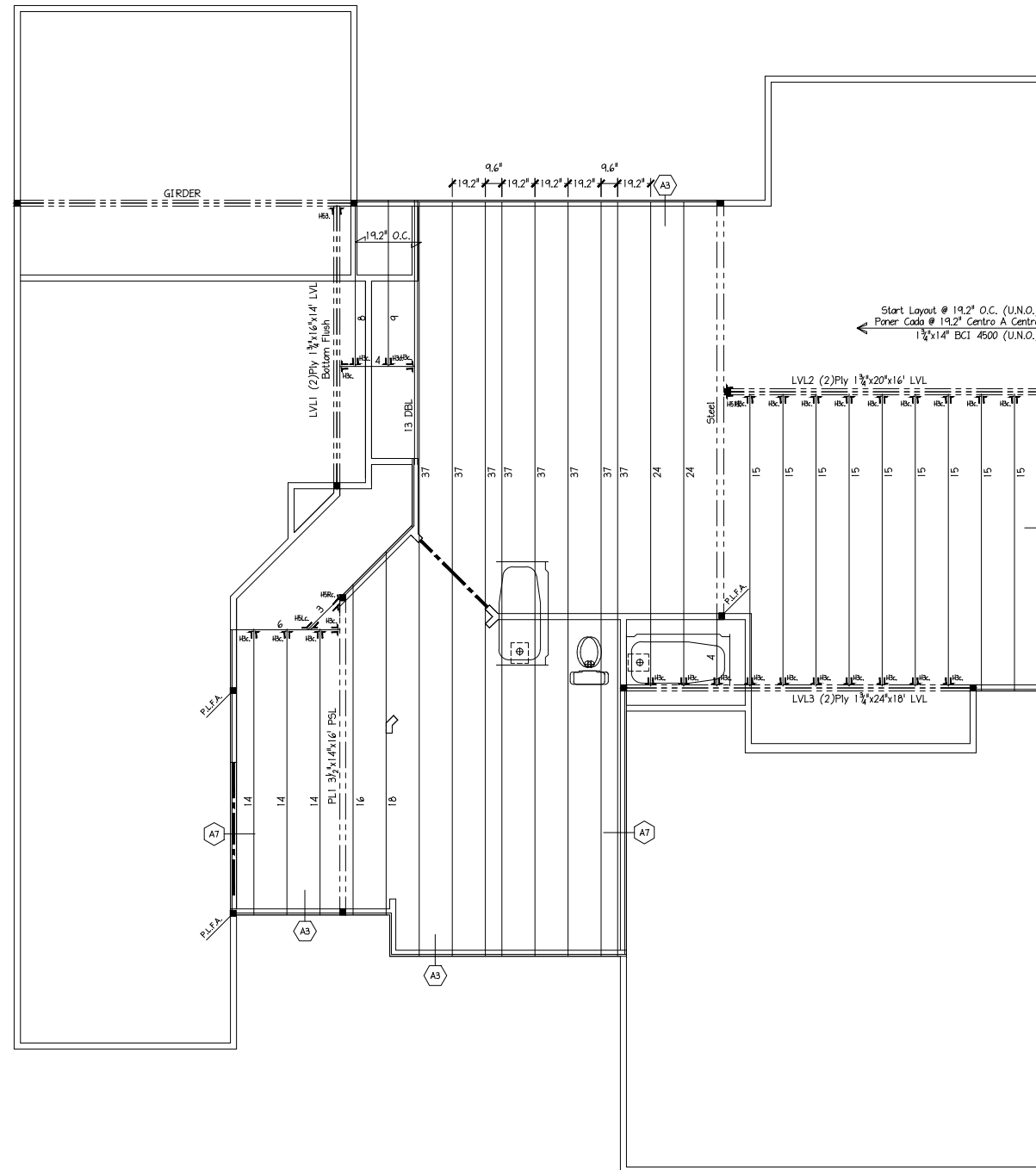
LVL # PSL (1 3/4" Width Pieces)

- Minimum of 2 rows 16d (3/4") nails at 12" oc.
- Minimum of 3 rows 16d (3/4") nails at 12" oc. for 14", 16", 18" beams.
- Multiple pieces of LVL # PSL can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7 inches. Minimum of 2 rows 1/2" bolts at 24" oc. staggered.

For side-loaded multiple member beams, additional nailing or bolting may be required. See current Joist literature.

LVL HANGER NAILS INSTALLATION

FILL ALL NAIL HOLES USING 16D COMMON (0.162 X 3 1/2") NAILS. DO NOT USE AIR GUN NAILS OR NIOD NAILS.



2ND FLOOR I-JOIST PLACEMENT PLAN
CARUSO HOMES - DAVIDSON - NC 1 - 94

ENGINEERED WOOD MATERIAL LIST

CARUSO HOMES
DAVIDSON - NC 1 - 94
2ND FLOOR I-JOIST PLACEMENT PLAN

MARK	QTY	CUT LENGTH	DESCRIPTION
3	1	3'-0"	1 3/4" x 14" BCI 4500
4	2	4'-0"	1 3/4" x 14" BCI 4500
6	1	6'-0"	1 3/4" x 14" BCI 4500
8	1	8'-0"	1 3/4" x 14" BCI 4500
9	1	9'-0"	1 3/4" x 14" BCI 4500
13	2	13'-0"	1 3/4" x 14" BCI 4500
14	3	14'-0"	1 3/4" x 14" BCI 4500
15	9	15'-0"	1 3/4" x 14" BCI 4500
16	1	16'-0"	1 3/4" x 14" BCI 4500
18	1	18'-0"	1 3/4" x 14" BCI 4500
24	2	24'-0"	1 3/4" x 14" BCI 4500
37	8	37'-0"	1 3/4" x 14" BCI 4500 (Total 615')

BEAMS AND HEADERS

LVL#	QTY	UNIT	DESCRIPTION
LVL1	2	14'-0"	1 3/4" x 16' LVL 2.0E (Flush)
LVL2	2	16'-0"	1 3/4" x 20' LVL 2.0E (Flush)
LVL3	2	18'-0"	1 3/4" x 24' LVL 2.0E (Flush)
PL1	1	16'-0"	3 1/2" x 14" Parallam PSL (Flush)
STL	1	22'-0"	4" x 10" Steel Beam by Others (Flush)

ACCESSORIES & OTHER MATERIALS (Simpson Hangers)

ITEM	QTY	UNIT	DESCRIPTION
14" Rim	92	LF	1 1/2" x 14" Rim 8 pcs@12" or 6 pcs@16"
H53	1	PCS	HGU5412 3 1/2" Face Mnt -Bm Hgr
HBRc	1	PCS	SUR1.81/14 Right Single Skew Hanger
H5Lc	1	PCS	SUL1.81/14 Left Single Skew Hanger
H5c	27	PCS	IUS1.81/14 Single Face Mnt Hanger H=14"
H513	1	PCS	HGU3.63-SDS 3 1/2" SDS High Capacity
BCGUIDE	1	PCS	BCI Installation Guide
BCLAYOUT	1	PCS	BCI Placement Layout

SEE MATERIAL LIST FOR DEPTH, SERIES & LENGTH

INDICATES I-JOIST

INDICATES STEEPEND GRD. LVL

INDICATES NON-PLAN LVL

INDICATES PARALLAM PSL

INDICATES GIRDER

INDICATES A SECTION FROM THE INSULATION GUIDE SHEET IS ALSO SHOWN ON THIS SHEET

LOAD BEARING WALL ABOVE =

EXTRA JOIST (1) UNDER WALL

DOUBLE JOIST (2)

TRIPLE JOIST (3)

JOIST BRACING FRAME

1 JOIST OR 1 LVL WITH BOARD CONCENTRATED POINT LOAD FROM ABOVE

2 JOIST OR 2 LVL WITH BOARD CONCENTRATED POINT LOAD FROM ABOVE

3 JOIST OR 3 LVL WITH BOARD CONCENTRATED POINT LOAD FROM ABOVE

THIS SHOP DRAWING IS BASED ON THE FOLLOWING

PROJECT LOCATION :	PROJECT NUMBER :
ARCHITECT DWG BY :	ARCH DWG DATE :
ARCH LATEST REVISION :	CHECKED BY :
STRUCTURAL REVIEW BY :	DATE :

REV	BY	DATE / DESC.
SD	SE	1/30/23

DESIGN DATA

LIVE	40 PSF
DEAD	10 PSF
TOTAL LOAD	= 50 PSF
STRESS DURATION	= 100%
DEFLECTION CRITERIA	= (L/480)

Builders FirstSource

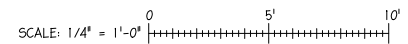
RES MANUFACTURER INSTALLATION GUIDE BECOME FAMILIAR. COORDINATE APPROPRIATE GUIDE FOR EACH JOIST TYPE AND BEAM SIZE. ALWAYS USE THE LATEST MANUFACTURER'S LITERATURE. ALWAYS USE THE LATEST MANUFACTURER'S INSTALLATION GUIDE FOR THE JOIST TYPE AND BEAM SIZE. ALWAYS USE THE LATEST MANUFACTURER'S INSTALLATION GUIDE FOR THE JOIST TYPE AND BEAM SIZE. ALWAYS USE THE LATEST MANUFACTURER'S INSTALLATION GUIDE FOR THE JOIST TYPE AND BEAM SIZE.

I-Joists

12BCI 4500	= 12TJ110
12BCI 5000	= 12TJ210
14BCI 4500	= 14TJ110
14BCI 5000	= 14TJ210
14BCI 6000	= 14TJ230
16BCI 5000	= 16TJ210
16BCI 60	= 16TJ1360

POINT LOAD FROM ABOVE (P.L.F.A.)

USE SOLID BLOCKING TO TRANSFER LOAD FROM ABOVE TO FOUNDATION



BUILDER: CARUSO HOMES

MODEL: DAVIDSON - NC 1 - 94

2ND FLOOR I-JOIST PLACEMENT PLAN

TITLE: WEDNESDAY, 8 FEBRUARY 2023 - 9:09 AM

FILE: I:\...EX\T\I\ACADDWG\CARUSO HOMES\DAVIDSON - NC 1 - 94.DWG

DRAWN BY: NJH DATE: 2/14/22

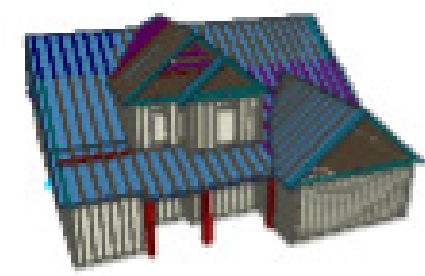
SHEET: 2 OF 2 SHEETS

General Notes:
 - Per ANSI/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
 - Dimensions are Feet-Inches- Sixteenths.
 - Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
 - Trusses are not designed to support brick U.N.O.
 - Do not cut or modify trusses without first contacting Builders FirstSource.
 - Immediately contact Builders FirstSource if trusses are damaged.

Connection Notes:
 - All hangers are to be Simpson or equivalent U.N.O.
 - Use Manufacturer's specifications for all hanger connections U.N.O.
 - Use 10d x 1 1/2" Nails in hanger connections to single ply roof girders.

Floor Notes:
 - Shift truss as required to avoid plumbing traps.
 - Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

Dimension Notes:
 - Drawing not to scale. Do not scale dimensions



Hanger List		All Tie Downs H2.5T Unless noted	
38	HTU26	M/L	✓
3	HTS20	M/L	✓
2	LG13-SDS2.5	-	✓
11	LUS24	U/L	✓
2	SUR210	R/S	✓
1	HGUS46	O/E	✓
5	LUS26	U/L	✓

Special Items List	

Misc Material	

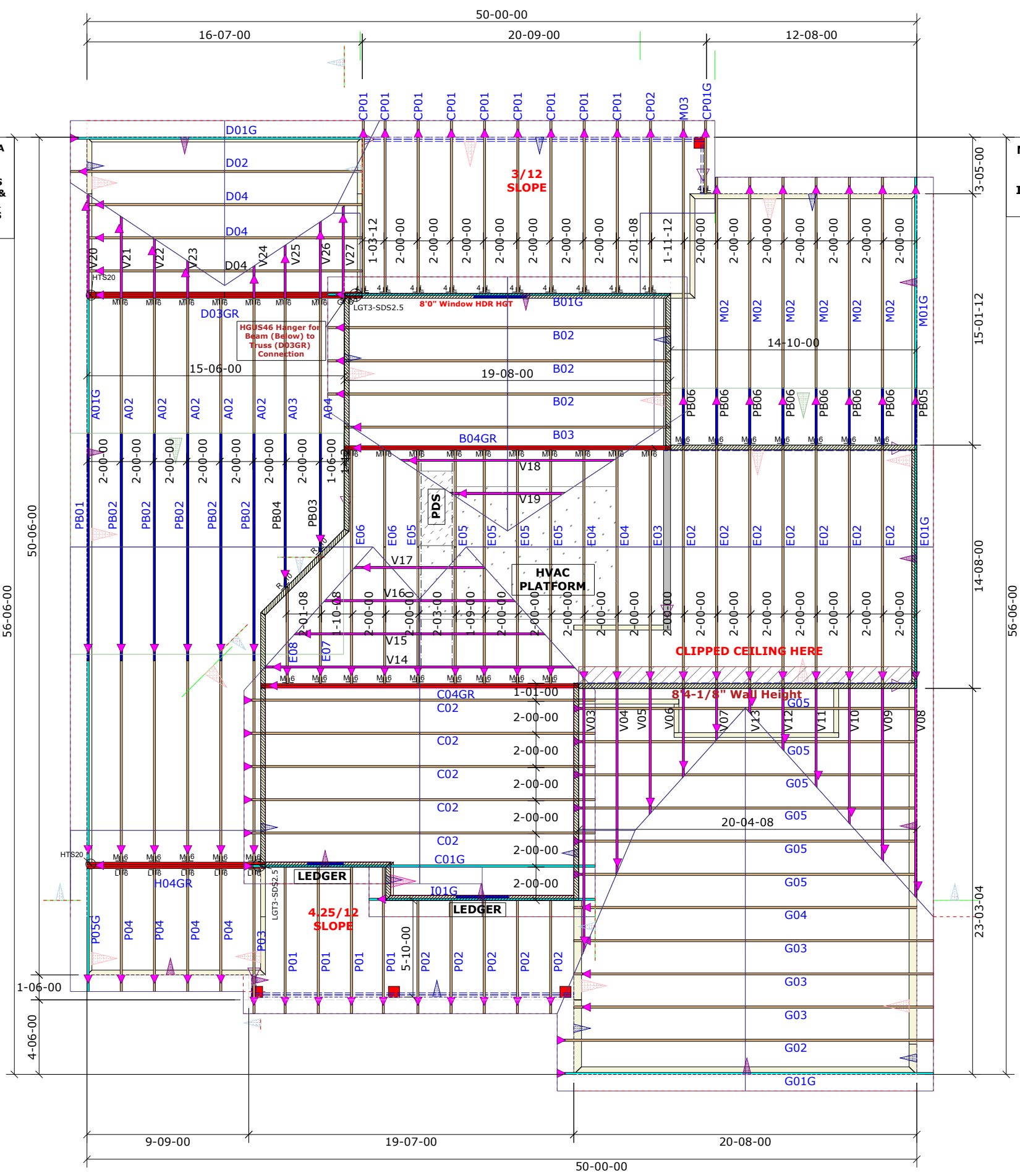
Caruso Homes	
Davidson	Elev: 1
OYL NC1 94	
Wake	NC Lot: NC1.94
Appwright #	
Permit (3415830)	
Code: IRC 2015	
Loading:	
T.C.L.L. 20	
T.C.D.L. 10	
B.C.L.L. 0	
B.C.D.L. 10	

Revision History		Wind:	
Rev1:	xx/xx/xx	M.P.H.	115
Rev2:	xx/xx/xx	Exposure Category	
Rev3:	xx/xx/xx	B (Wooded areas/other)	
Pick Ticket:	---	Job No:	---
Sales No:	---	Acct No:	---

Hatch Legend	
	Attic Room
	Volume Ceiling
	Stick Framing

SPACE TRUSSES 2' O.C. UNLESS A WIDE P.D.S. IS GOING TO BE INSTALLED. IF WIDE P.D.S. IS USED, FOLLOW SPECIAL TRUSS SPACING AS NOTED ON LAYOUT & ATTACH 2X4 LEDGERS TO TOP & BOTTOM CHORDS W/12d NAILS @ 16" O.C.

NOTE: LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED ON LAYOUT BY TRIANGLE ICONS



50-00-00
 16-07-00
 20-09-00
 12-08-00
 56-06-00
 50-06-00
 15-01-12
 14-08-00
 23-03-04
 9-09-00
 19-07-00
 20-08-00
 50-00-00