

GENERAL NOTES:

- ALL KITCHEN AND UTILITY COUNTERTOPS ARE SHOWN AS 2'-0" WIDE UNLESS STATED OTHERWISE.
- ALL BATHROOM LAVATORY COUNTERTOPS SHOWN AS 1'-10" WIDE.
- ATTIC SPACES MUST PROVIDE 1 SQ. FT. VENTILATION PER 150 SQ. FT. OF AREA UNLESS CONDITIONED SPACE. (ATTICS R306)
- ALL INTERIOR DIMENSIONS ARE FROM STUD FACE TO STUD FACE.
- ALL INTERIOR WALL THICKNESS SHOWN AS 4" UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK.
- DRYER VENT MUST HAVE MAX LENGTH 35'
- PURCHASER OF THIS PLAN ASSUMES LIABILITY FOR ANY MODIFICATIONS MADE TO THE LAYOUT OF THIS PLAN.
- ALL WOOD FRAMING SHALL BE NO. 2 GRADE - SOUTHERN PINE LUMBER. ALL CEILING JOISTS SPANS ARE BASED ON TABLE R602.5.1 (2) OF THE IRC, 2021 AND ARE DESIGNED FOR ATTICS WITH LIMITED STORAGE. (REFER TO JOISTS SHEET FOR SPANS)
- RE: SEC. 308 GLAZING IN HAZARDOUS LOCATIONS 4 TEMPERED GLASS FOR WINDOWS THAT ARE WITHIN 24" OF THE DOOR IN THE CLOSED POSITION, PROVIDING THE WINDOW IS LESS THAN 60" ABOVE THE FLOOR. (R308 IRC, 2021)
- MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL WITH CORROSION-RESISTANT METAL TIES SPACED NOT MORE THAN 32" ON CENTER HORIZONTALLY AND 24" VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2.6-1 SQ. FEET OF WALL PER SECTION R103.8.4.1 IF APPLICABLE.
- VENT HOOD IN KITCHEN MUST VENT TO THE OUTSIDE. MICROWAVE HOODS MUST VENT TO THE OUTSIDE WHERE APPLICABLE.

WIND ZONE NOTES

- VERIFY WINDOW CODE REQUIREMENTS AT EACH BUILDING LOCATION, AND INSTALL WINDOWS AS PER CODE. REQUIREMENTS WILL VARY FROM DOUBLE INSULATED VINYL TO IMPACT RESISTANT DOUBLE INSULATED VINYL WINDOWS.
- ALL WINDOWS SHALL COMPLY WITH THE GOVERNING IRC/IBC. WINDOWS SHALL BE SELECTED BASED UPON THE COMPONENT AND CLADDING DESIGN PRESSURES.
- CONTRACTOR RESPONSIBLE FOR ANCHORAGE OF BOTTOM PLATE AND WALL STUDS TO FOUNDATION IN COMPLIANCE WITH THE GOVERNING EDITION OF IRC/IBC 1609.

HEADER SPANS FOR LOAD BEARING WALLS:

- SINGLE STORY:
- 2 PLY 2'X6" 4'-2" MAX
 - 2 PLY 2'X8" 5'-4" MAX
 - 2 PLY 2'X10" 7'-6" MAX
- 2 STORY:
- 2 PLY 2'X6" 3'X11" MAX
 - 2 PLY 2'X8" 4'X6" MAX
 - 2 PLY 2'X10" 6'X2" MAX
- 2 PLY 2'X6 HEADERS FOR ALL NON-LOAD BEARING WALLS
 - OSB BETWEEN ALL HEADER PLIES
 - NO BOXED HEADERS

REFER TO IRC R602.1 (1) AND (2) FOR ADDITIONAL HEADER AND GIRDER SPANS

NOTE:

ROOF OVERHANG ON NEW CONSTRUCTION TYPICAL 12" FROM FACE OF STUD UNLESS OTHERWISE NOTED.

GENERAL CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION BUILDING SYSTEMS PER IRC CODE (SECTION R806). SYSTEMS TO BE USED TO MEET ROOF VENTILATION REQUIREMENTS ARE AS FOLLOWS: CONTINUOUS RIDGE VENTS, POWER VENTS, BOX VENTS, AND GABLE/DORMER VENTS WHEN APPROVED BY OWNER.

SOFFIT VENTS TO BE USED ONLY IN ACCORDANCE W/ IRC CODE (SECTION R302 AND TABLE R302.1) TO ACCOMMODATE APPROPRIATE FIRE SEPARATION DISTANCES.

GENERAL MATERIALS:

- EXTERIOR WALLS:
 - BRICK VENEER
 - REINFORCED CEMENTITIOUS SIDING
 - "TYVEK" BUILDING WRAP
 - 1/2" OSB SHEATHING
 - R-13 MIN. BATT INSULATION
- INTERIOR WALLS:
 - 2X4 STUDS @ 1'-4" O.C.
- CEILING:
 - 2X JOISTS @ 1'-4" O.C.
 - R308 INSULATION
- ROOF SYSTEM:
 - 30 YEAR FIBERGLASS SHINGLES
 - 1/2" OSB OR CDX PLYWOOD
 - STANDING SEAM METAL ROOF

- 2X4 or 6 STUDS @ 1'-4" O.C.
- 1/2" GYPSUM BOARD INTERIOR
- 1/2" GYPSUM BOARD ON BOTH SIDES
- 1/2" GYPSUM BOARD
- 15FELT
- 2X6 RAFTERS @ 2'0" O.C. (CONFIRM W/ LOCAL CODE)

NOTE: ALL ROOFING PRODUCTS, MATERIALS AND INSTALLATION, SHALL COMPLY WITH THE REQUIREMENTS UNLESS CHANGED BY GENERAL CONTRACTOR AT OWN DISCRETION.

PROTECTION AGAINST TERMITES:

- SUBTERRANEAN TERMITE CONTROL. IN AREAS FAVORABLE TO TERMITE DAMAGE METHODS OF PROTECTION SHALL BE BY CHEMICAL SOIL TREATMENT, PRESSURE-TREATED WOOD, NATURALLY TERMITE RESISTANT WOOD OR PHYSICAL BARRIERS (SUCH AS METAL OR PLASTIC TERMITE SHIELDS), OR ANY COMBINATION OF THESE METHODS.
- CHEMICAL SOIL TREATMENT. THE CONCENTRATION, RATE OF APPLICATION AND TREATMENT METHOD OF THE TERMITICIDE LABEL.
- PRESSURE-TREATED AND NATURALLY RESISTANT WOOD. HEARTWOOD OF REDWOOD AND EASTERN RED CEDAR SHALL BE CONSIDERED TERMITE RESISTANT. PRESSURE-TREATED WOOD AND NATURALLY TERMITE RESISTANT WOOD SHALL NOT BE USED AS A PHYSICAL BARRIER UNLESS A BARRIER CAN BE INSPECTED FOR ANY TERMITE SHELTER TUBES AROUND THE INSIDE AND OUTSIDE EDGES AND JOINTS OF A BARRIER.
- FIELD TREATMENT. FIELD CUT ENDS, NOTCHES, AND DRILLED HOLES OF PRESSURE-TREATED WOOD SHALL BE RETREATED IN THE FIELD ACCORDING TO AUPA M4.

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for
full compliance with the code

11/18/2025



The Dover Hills
(w. bonus)

SHEET INDEX

NO.	TITLE
A0	COVER SHEET
A1	FLOOR PLANS
A2	INTERIOR ELEVATIONS
A3.1	ELEVATIONS & ROOF PLAN
A3.2	SIDE ELEVATIONS
A4	FOUNDATION PLAN
A5	JOISTS FRAMING LAYOUT
E1	ELECTRICAL PLAN

CODE DISCLAIMER:

- THESE PLANS WERE DESIGNED TO MEET IRC 2021 AT THE TIME OF THEIR CREATION AND MORE SPECIFICALLY THE MINIMAL LOCAL CODES OF THE SOUTH LOUISIANA AREA. IT IS HIGHLY RECOMMENDED THAT THESE PLANS BE REVIEWED BY A LOCAL STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- BEAMS AND FLOOR JOISTS ARE NOT SIZED DUE TO THE MANY GEOGRAPHIC LOCATIONS THESE PLANS ARE SOLD. THESE ITEMS SHALL BE SIZED BY A LOCAL ENGINEER OR MANUFACTURER.
- ALL CEILING & FLOOR JOISTS (IF CONVENTIONAL FRAMING) SHOULD BE SIZED USING THE LATEST VERSION OF THE IRC OR APPLICABLE CODES AT SITE TO MEET THE LOCAL REQUIREMENTS SUCH AS SNOW LOADS AND OTHER FACTORS. THE CEILING JOIST SIZES LABELED (IF PRESENT) WERE SIZED USING THE 2021 IRC AT THE TIME OF THEIR CREATION. THEY MUST BE VERIFIED AND MODIFIED AS REQUIRED TO MEET THE LATEST EDITION OF THE (IRC) INTERNATIONAL RESIDENTIAL CODE.
- ALL FOUNDATION AND FOOTING DETAILS SHALL BE REVIEWED AND APPROVED BY A LOCAL ENGINEER.
- CONTRACTOR SHALL PROVIDE ALL HIGH WIND STRAPPING AND ANCHOR BOLTS AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND THE LATEST VERSION OF THE IRC.

WINDOW EGRESS NOTES

- R311 - MEANS OF EGRESS. DUELLINGS SHALL BE PROVIDED WITH A MEANS OF EGRESS IN ACCORDANCE WITH THIS SECTION. THE MEANS OF EGRESS SHALL PROVIDE A CONTINUOUS AND UNOBSTRUCTED PATH OF VERTICAL AND HORIZONTAL EGRESS TRAVEL FROM ALL PORTIONS OF THE DUELLING TO THE REQUIRED EGRESS DOOR WITHOUT REQUIRING TRAVEL THROUGH A GARAGE. THE REQUIRED EGRESS DOOR SHALL OPEN DIRECTLY INTO A PUBLIC WAY OR TO A YARD OR COURT THAT OPENS TO A PUBLIC WAY.
- R310.2.1 - MINIMUM OPENING AREA. EMERGENCY AND ESCAPE RESCUE OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET (0.530 M²). THE NET CLEAR OPENING DIMENSIONS REQUIRED BY THIS SECTION SHALL BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE. THE NET CLEAR HEIGHT OPENING SHALL BE NOT LESS THAN 24 INCHES (610 MM) AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCHES (508 MM). EXCEPTION: GRADE FLOOR OR BELOW GRADE OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET (0.465 M²).
- R310.2.3 - WINDOW SILL HEIGHT. WHERE A WINDOW IS PROVIDED AS THE EMERGENCY ESCAPE AND RESCUE OPENING, IT SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES (1118 MM) ABOVE THE FLOOR. WHERE THE SILL HEIGHT IS BELOW GRADE, IT SHALL BE PROVIDED WITH A WINDOW WELL IN ACCORDANCE WITH SECTION R310.4.1.
- R310.4.1 - WINDOW WELLS. THE HORIZONTAL AREA OF THE WINDOW WELL SHALL BE NOT LESS THAN 9 SQUARE FEET (0.83 M²) WITH A HORIZONTAL PROJECTION AND WIDTH OF NOT LESS THAN 36 INCHES (914 MM). THE AREA OF THE WINDOW WELL SHALL ALLOW THE EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED. EXCEPTION: THE LADDER OR STEPS REQUIRED BY SECTION R310.4.2 - SHALL BE PERMITTED TO ENROACH NOT MORE THAN 6 INCHES (152 MM) INTO THE REQUIRED DIMENSIONS OF THE WINDOW WELL.
- R310.4.2 - LADDER AND STEPS. WINDOW WELLS WITH A VERTICAL DEPTH GREATER THAN 44 INCHES (1118 MM) SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE WITH THE WINDOW IN THE FULLY OPEN POSITION. LADDERS OR STEPS REQUIRED BY THIS SECTION SHALL NOT BE REQUIRED TO COMPLY WITH SECTION R311.7. LADDERS OR RUNGS SHALL HAVE AN INSIDE WIDTH OF NOT LESS THAN 12 INCHES (305 MM). SHALL PROJECT NOT LESS THAN 3 INCHES (76 MM) FROM THE WALL AND SHALL BE SPACED NOT MORE THAN 18 INCHES (457 MM) ON CENTER VERTICALLY FOR THE FULL HEIGHT OF THE WINDOW WELL.
- R312.2 - WINDOW FALL PROTECTION. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS R312.2.1 AND R312.2.2.
- R312.2.1 - WINDOW OPENING HEIGHT. IN DUELLING UNITS, WHERE THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATED LESS THAN 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR AND GREATER THAN 12 INCHES (305 MM) ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, THE OPERABLE WINDOW SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - OPERABLE WINDOWS WITH OPENINGS THAT WILL NOT ALLOW A 4-INCH-DIAMETER (102 MM) SPHERE TO PASS THROUGH THE OPENING WHERE THE OPENING IS IN ITS LARGEST OPENED POSITION.
 - OPERABLE WINDOWS THAT ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F2090.
- R312.2.2 - EMERGENCY ESCAPE AND RESCUE OPENINGS. WINDOW OPENING CONTROL DEVICES SHALL COMPLY WITH ASTM F 2090. THE WINDOW OPENING CONTROL DEVICE, AFTER OPERATION TO RELEASE THE CONTROL DEVICE ALLOWING THE WINDOW TO FULLY OPEN, SHALL NOT REDUCE THE NET CLEAR OPENING AREA OF THE WINDOW UNIT TO LESS THAN THE AREA REQUIRED BY SECTIONS R310.2.1 AND R310.2.2.

MADDEN HOME DESIGN, LLC NOT BEING AN ARCHITECTURAL OR ENGINEERING FIRM, THESE PLANS SHALL BE USED AS GENERAL GUIDANCE ONLY. THE USER SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS ARE CORRECT AND ENVIRONMENTAL REGULATIONS HAVE BEEN MET. IF AN ERROR OR OMISSION DOES OCCUR, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER AT HIS/HER OWN EXPENSE AND/OR COST. THE USER'S RESPONSIBILITY OF THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS IN THE FIELD AND SHALL BUILD HOME IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE 2021.

RESIDENCE OF
VICTOR
CRUZ

Project

MADDEN
HOME DESIGN

8375 Rushing Road
Denham Springs, Louisiana
70726
Phone: (225) 791-2912

A B D

Project No. DOVER HILLS - BONUS

DATE: SEPTEMBER 5, 2025

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

COPYRIGHT NOTE: © These Plans Are Subject To Federal Copyright Laws And Are To Be Used For The Lot Number And Subdivision Indicated In This Title Block Only. Use On Any Other Site Is Prohibited.

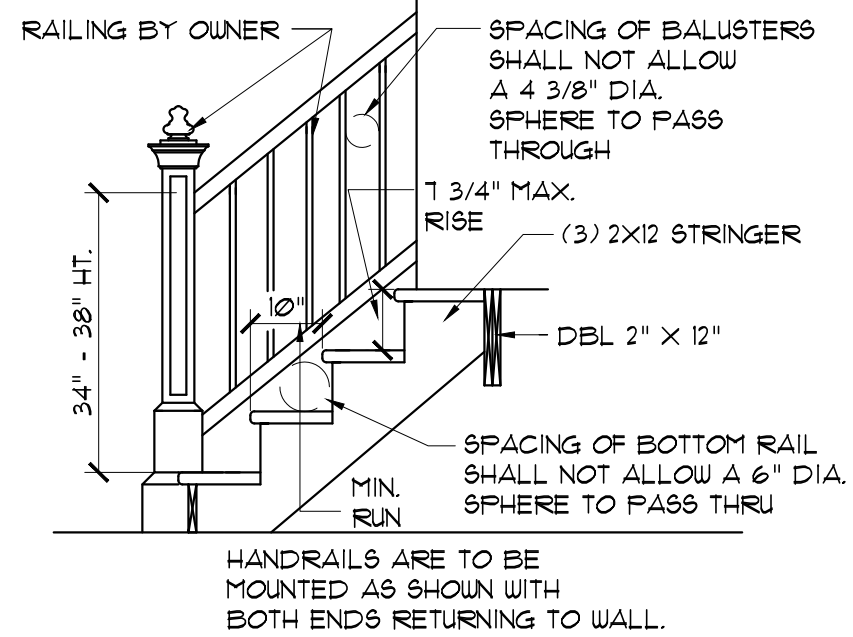
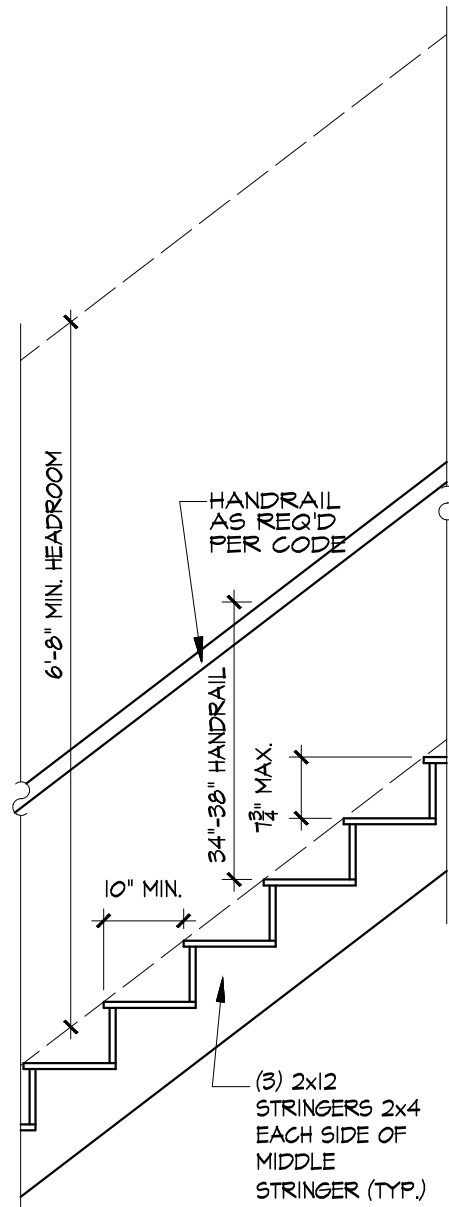
© COPYRIGHT 2024

Sheet Title

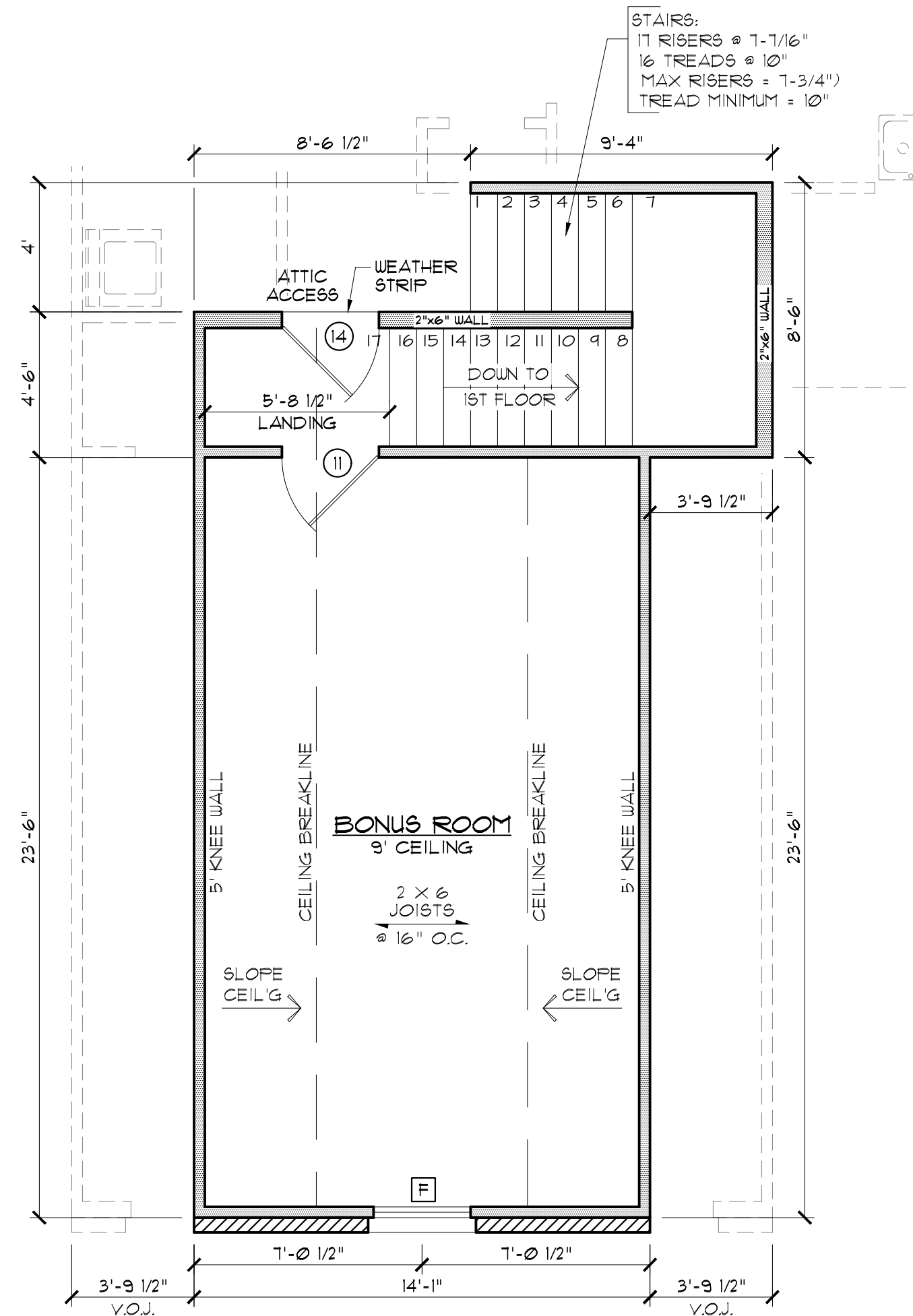
COVER
SHEET

- Sheet:
- ☐ Preliminary Dwg.
- ☐ Bidding Doc.
- ☐ Construction Doc.

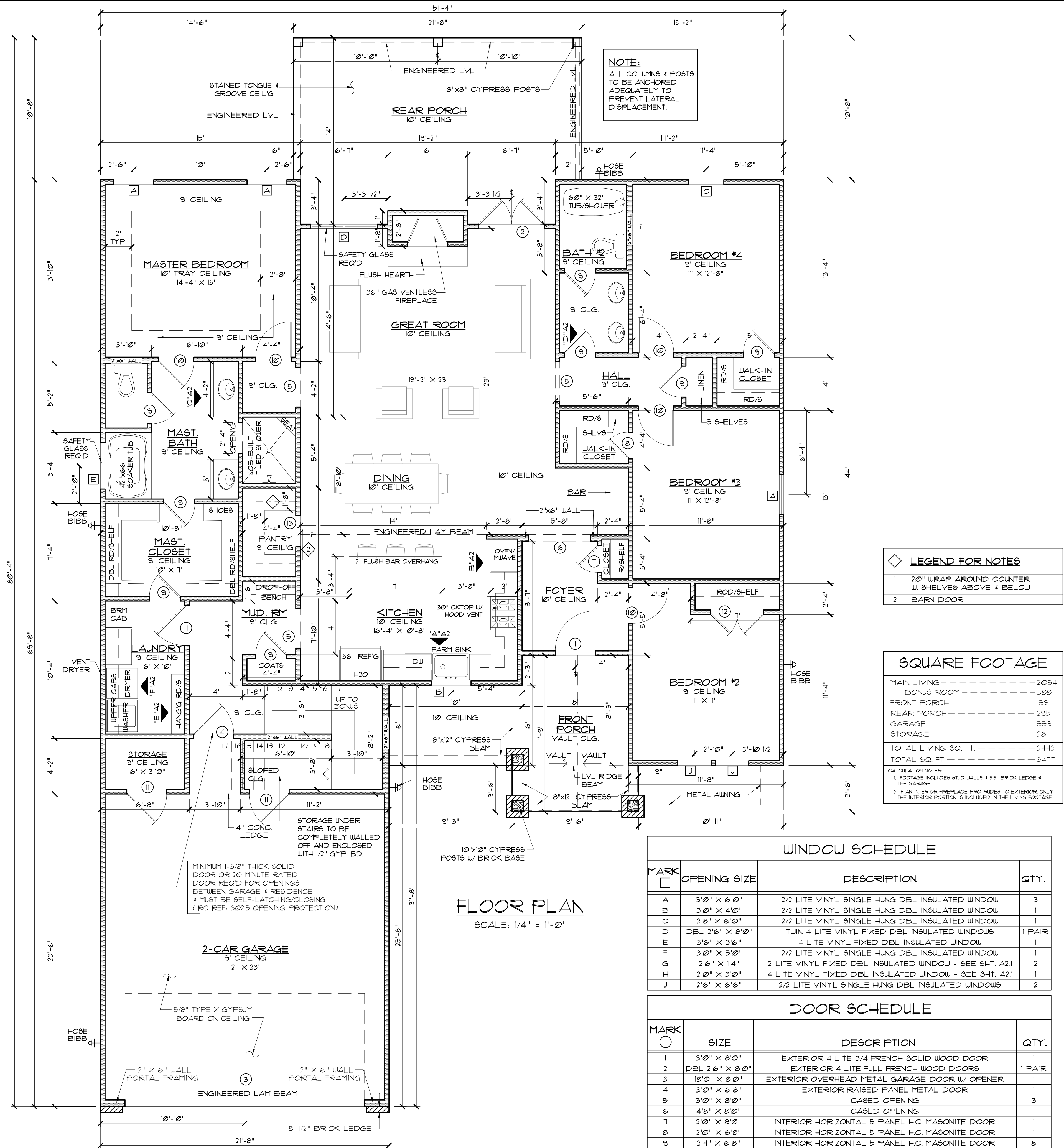
A0



STAIR RAILING DETAILS
SCALE: 1/2" = 1'-0"



BONUS ROOM
FLOOR PLAN
SCALE: 1/4" = 1'-0"



MADDEN HOME DESIGN, LLC NOT BEING
AN ARCHITECTURAL OR ENGINEERING FIRM
AS SUCH, THESE PLANS ARE NOT TO BE
USED FOR ANY STRUCTURAL, MECHANICAL,
ELECTRICAL, OR PLUMBING WORK. THE
OWNER SHALL BE RESPONSIBLE FOR
OBTAINING ALL NECESSARY PERMITS
AND REGULATIONS ARE CORRECT
AND ENVIRONMENTAL REGULATIONS HAVE
BEEN MET. IF AN ERROR OR OMISSION
DOES OCCUR, IT IS THE SOLE
RESPONSIBILITY OF THE CONTRACTOR
AND/OR OWNER AT HIS OWN EXPENSE
AND WITHOUT THE RESPONSIBILITY OF THE
DRAFTING SERVICE.
CONTRACTOR IS RESPONSIBLE FOR
VERIFICATION OF DIMENSIONS IN THE FIELD
AND SHALL BUILD HOME IN ACCORDANCE WITH
THE INTERNATIONAL RESIDENTIAL CODE 2021.

RESIDENCE OF
**VICTOR
CRUZ**

Project

MADDEN
HOME DESIGN

8375 Rushing Road
Denham Springs, Louisiana
70726
Phone: (225) 791-2912

A B D

Project No. DOVER HILLS - BONUS

DATE: SEPTEMBER 5, 2025

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

COPYRIGHT NOTE: ©
These Plans Are Subject To
Federal Copyright Laws And
Are To Be Used For The Lot
Number And Subdivision
Indicated In This Title Block
Only. Use On Any Other Site Is
Prohibited.

© COPYRIGHT 2024

Sheet Title

**FLOOR
PLANS**

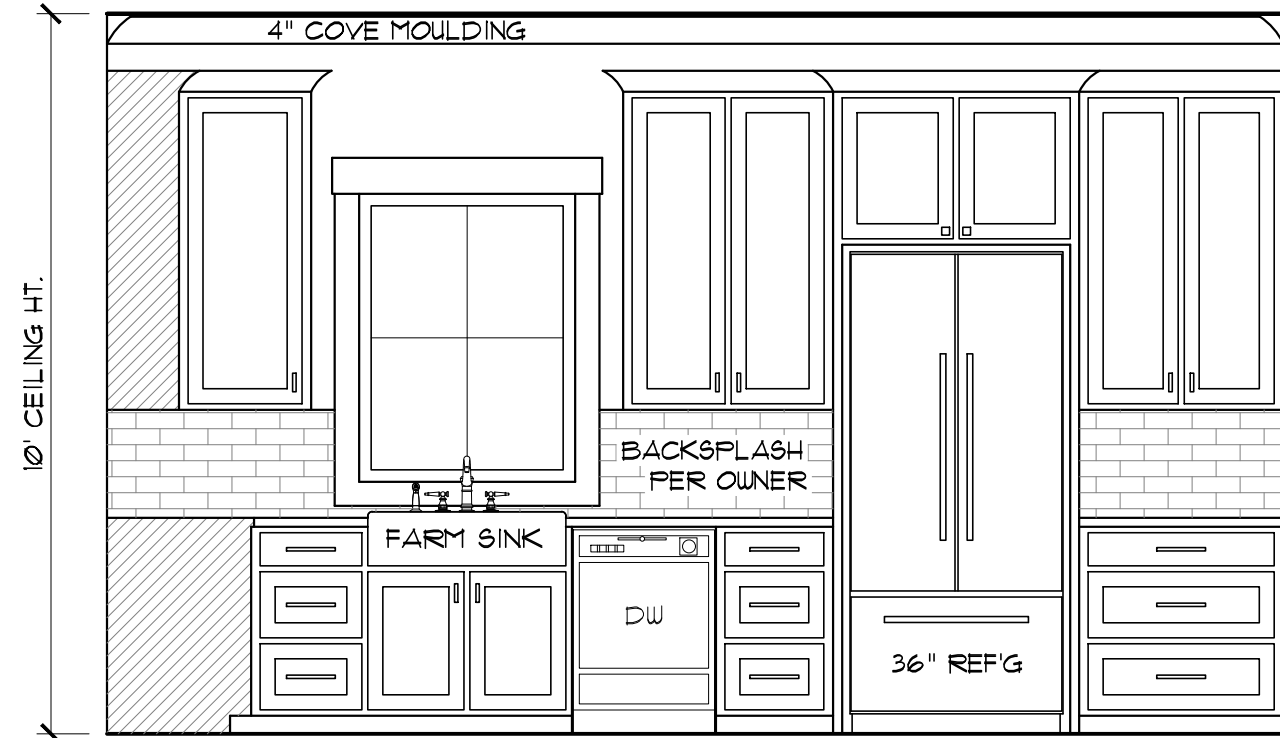
□ Preliminary Dwg.

□ Bidding Doc.

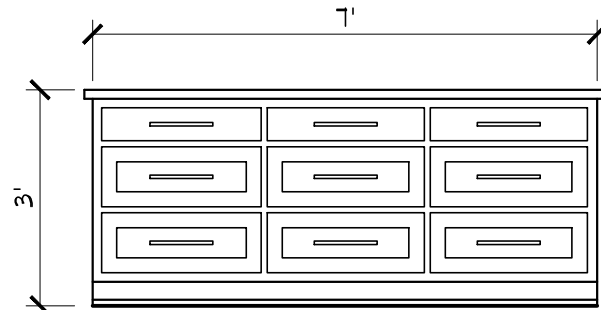
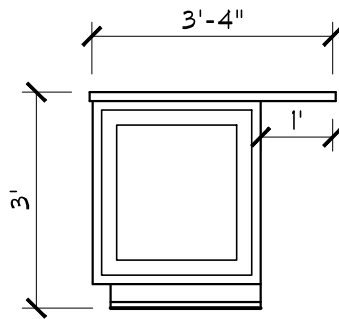
□ Construction Doc.

Sheet:

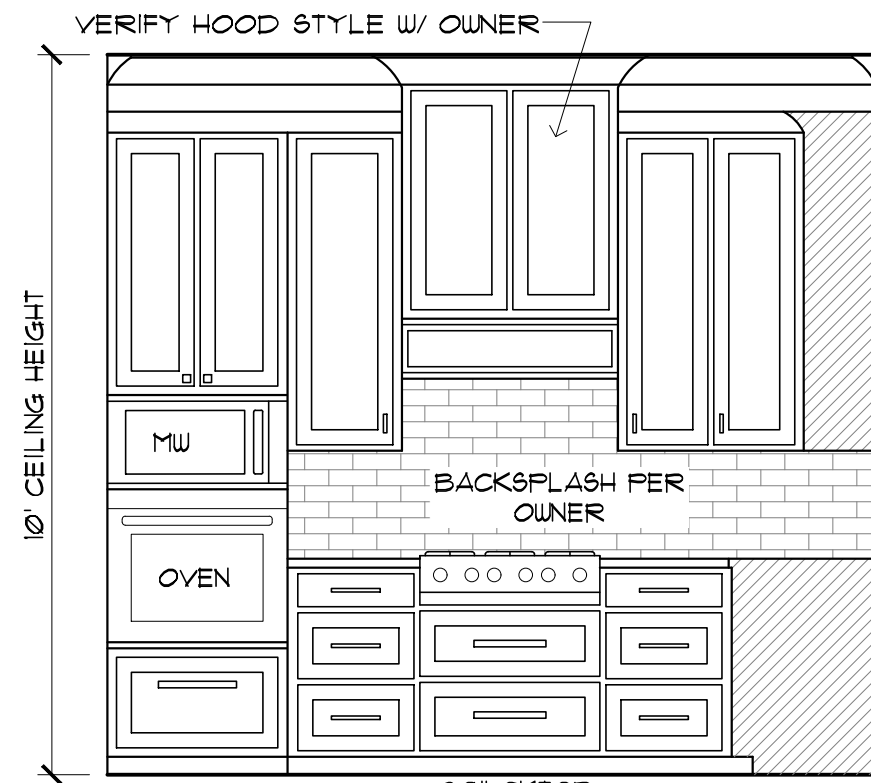
A1



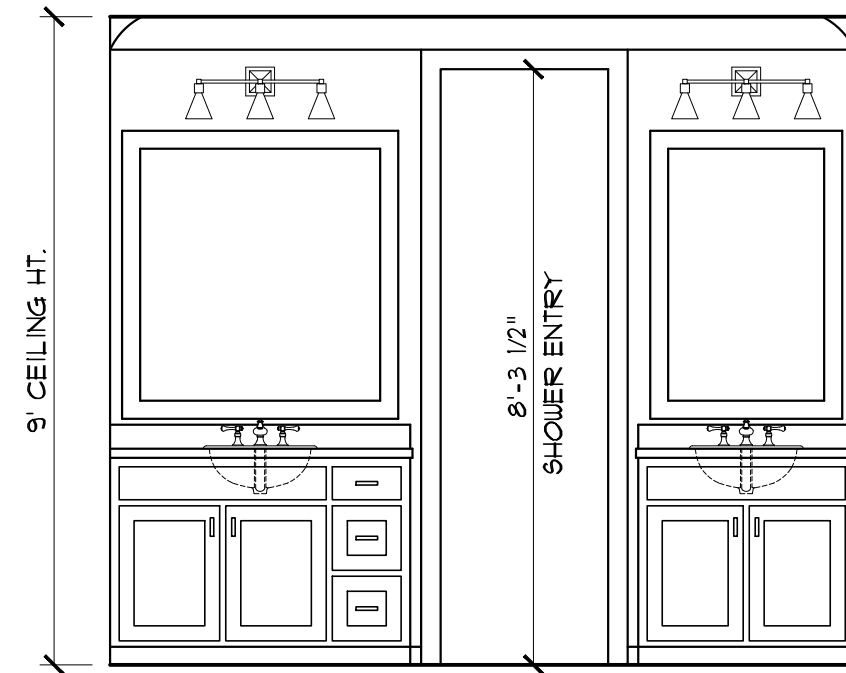
A KITCHEN
SCALE: 3/8" = 1'-0"



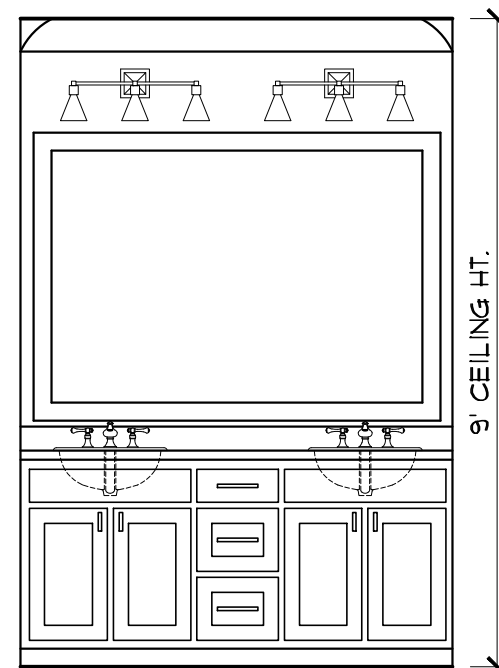
KITCHEN ISLAND
SCALE: 3/8" = 1'-0"



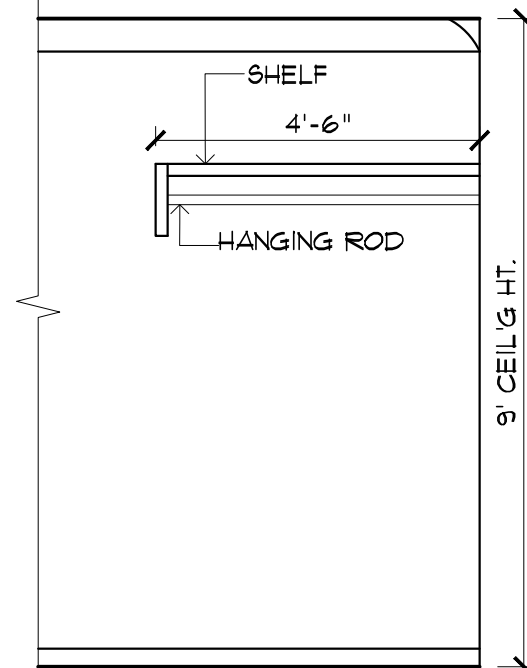
B KITCHEN
SCALE: 3/8" = 1'-0"



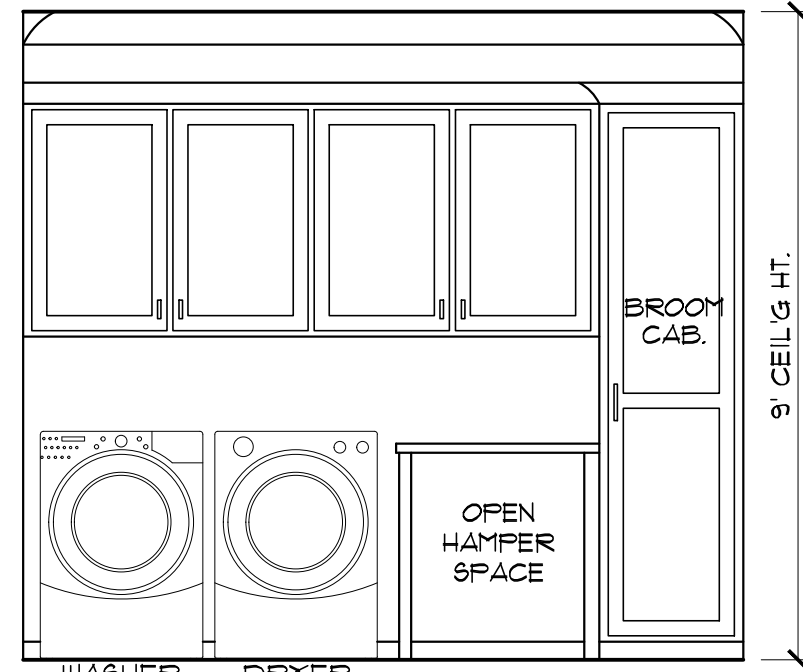
C MASTER BATH
SCALE: 3/8" = 1'-0"



D BATH #2 ELEV.
SCALE: 3/8" = 1'-0"



E LAUNDRY ELEV.
SCALE: 3/8" = 1'-0"



F LAUNDRY ELEV.
SCALE: 3/8" = 1'-0"

RESIDENCE OF
**VICTOR
CRUZ**

Project

MADDEN
HOME DESIGN

8375 Rushing Road
Denham Springs, Louisiana
70726
Phone: (225) 791-2912

A

B D[®]

Project No.DOVER HILLS - BONUS

DATE: SEPTEMBER 5, 2025

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

COPYRIGHT NOTE: ©
These Plans Are Subject To
Federal Copyright Laws And
Are To Be Used For The Lot
Number And Subdivision
Indicated In This Title Block
Only. Use On Any Other Site Is
Prohibited.

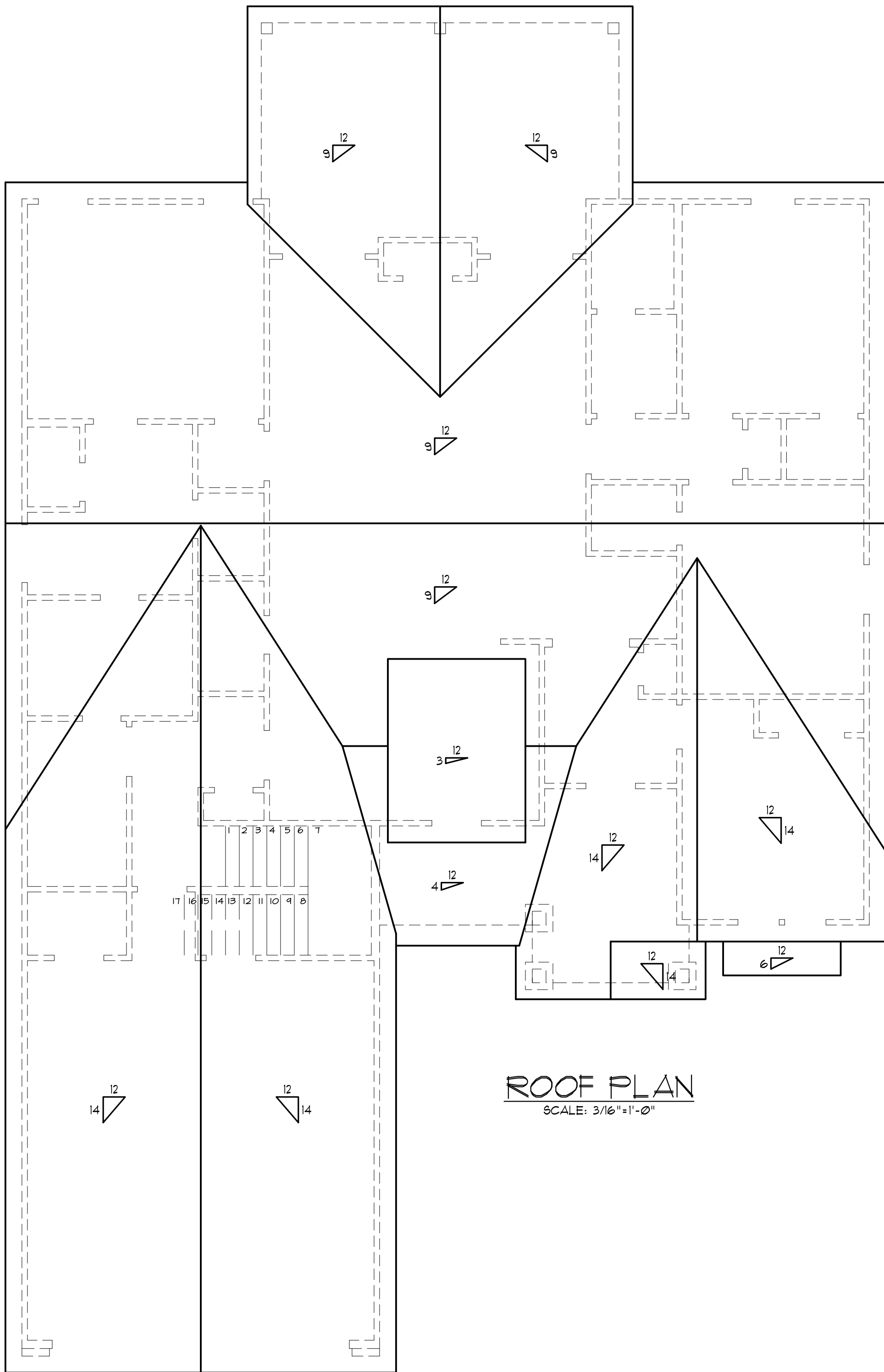
© COPYRIGHT 2024

Sheet Title

**INTERIOR
ELEVATIONS**

☐ Preliminary Dwg.
☐ Bidding Doc.
☐ Construction Doc.

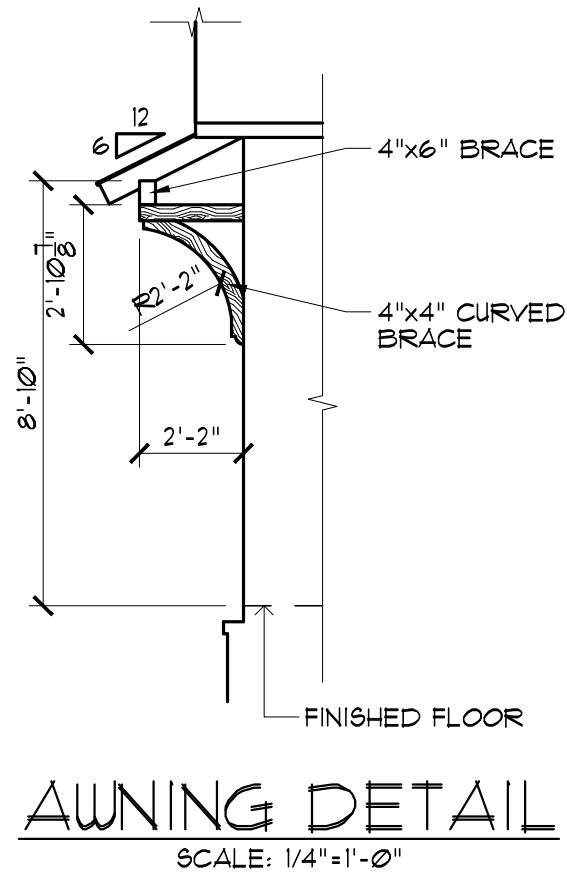
Sheet:
A2



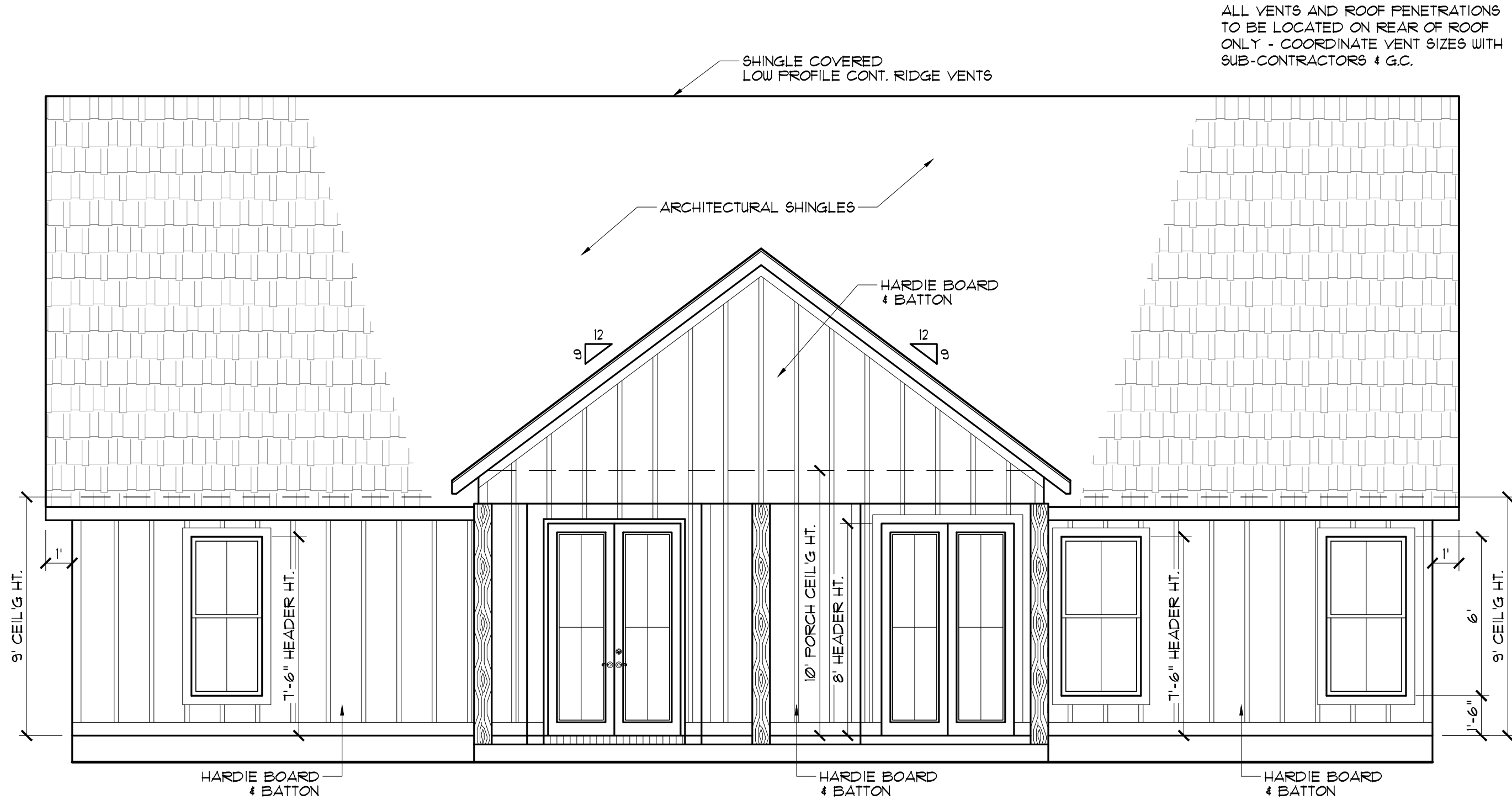
ROOF PLAN
SCALE: 3/16"=1'-0"

RAFTER SPANS		
RAFTER SPANS FOR SOUTHERN PINE SPECIES (LIVE LOAD = 20 PSF, L.A. = 240' DEAD LOAD = 10 PSF)		
SIZE	SPACING (INCHES)	SPANS (MAXIMUM RAFTER SPANS BETWEEN BRACING) (FT.-IN.)
2"x6"	12.0	12-11
	16.0	11-2
	19.2	10-2
	24.0	9-2
2"x8"	12.0	16-4
	16.0	14-2
	19.2	12-11
	24.0	11-7
2"x10"	12.0	19-5
	16.0	16-10
	19.2	15-4
	24.0	13-9
2"x12"	12.0	22-10
	16.0	19-10
	19.2	18-1
	24.0	16-2

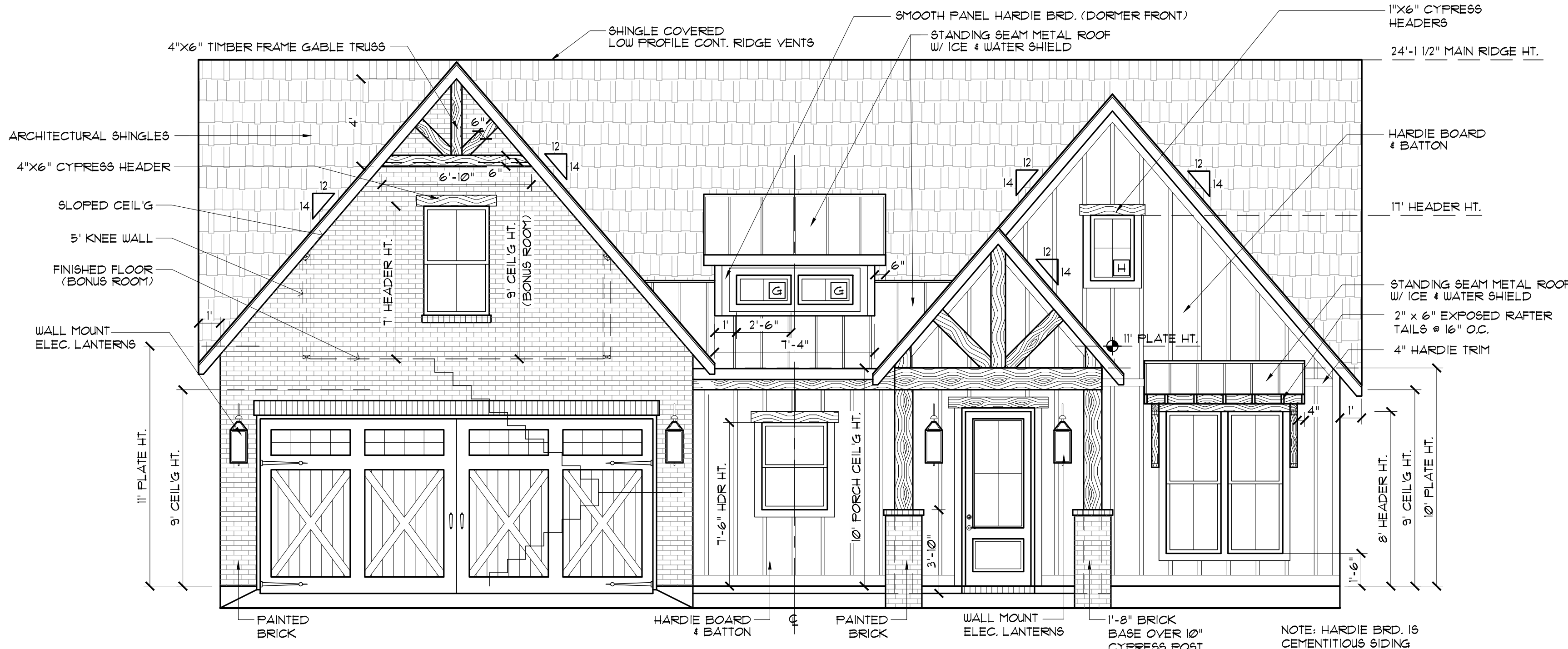
NOTE: THE ABOVE TABLE IS BASED ON THE IRC TABLE R802.4.1 (3)



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



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



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

ALL VENTS AND ROOF PENETRATIONS
TO BE LOCATED ON REAR OF ROOF
ONLY - COORDINATE VENT SIZES WITH
SUB-CONTRACTORS & G.C.

RESIDENCE OF

VICTOR
CRUZ

Project

MADDEN
HOME DESIGN

8375 Rushing Road
Denham Springs, Louisiana
70726
Phone: (225) 791-2912

A
B D

Project No. DOVER HILLS - BONUS

DATE: SEPTEMBER 5, 2025

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

COPYRIGHT NOTE: ©
These Plans Are Subject To
Federal Copyright Laws And
Are To Be Used For The Lot
Number And Subdivision
Indicated In This Title Block
Only. Use On Any Other Site Is
Prohibited.

© COPYRIGHT 2024

Sheet Title

**ELEVATIONS &
ROOF PLAN**

Sheet:

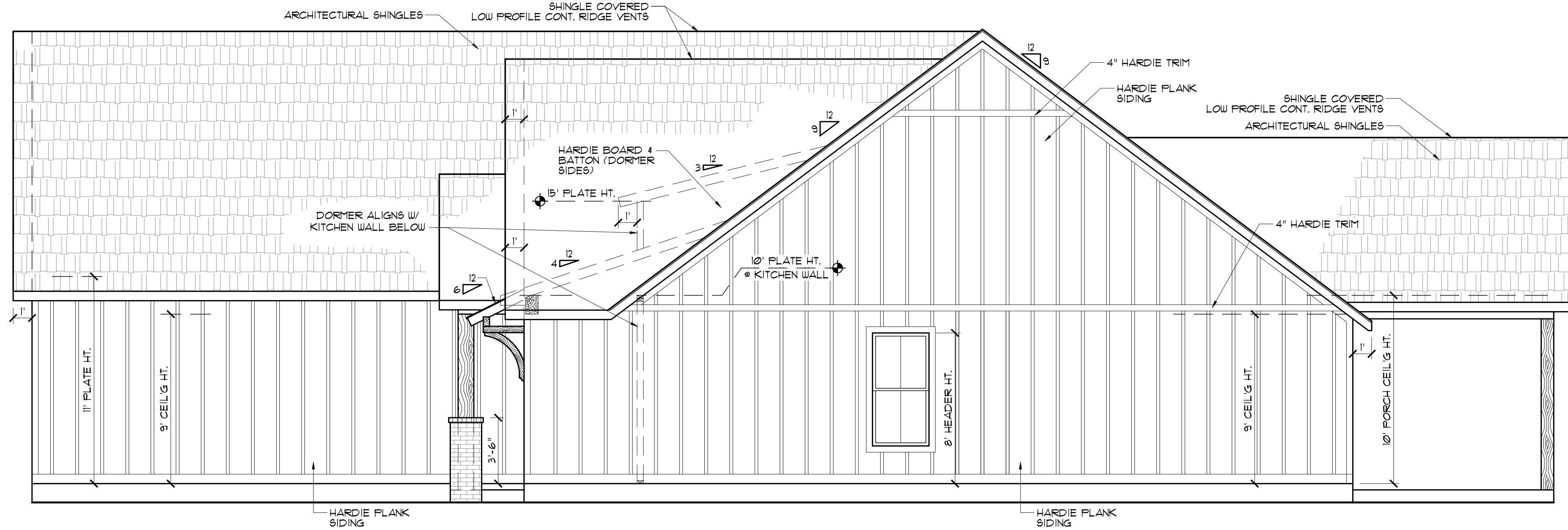
□ Preliminary Dwg.

□ Bidding Doc.

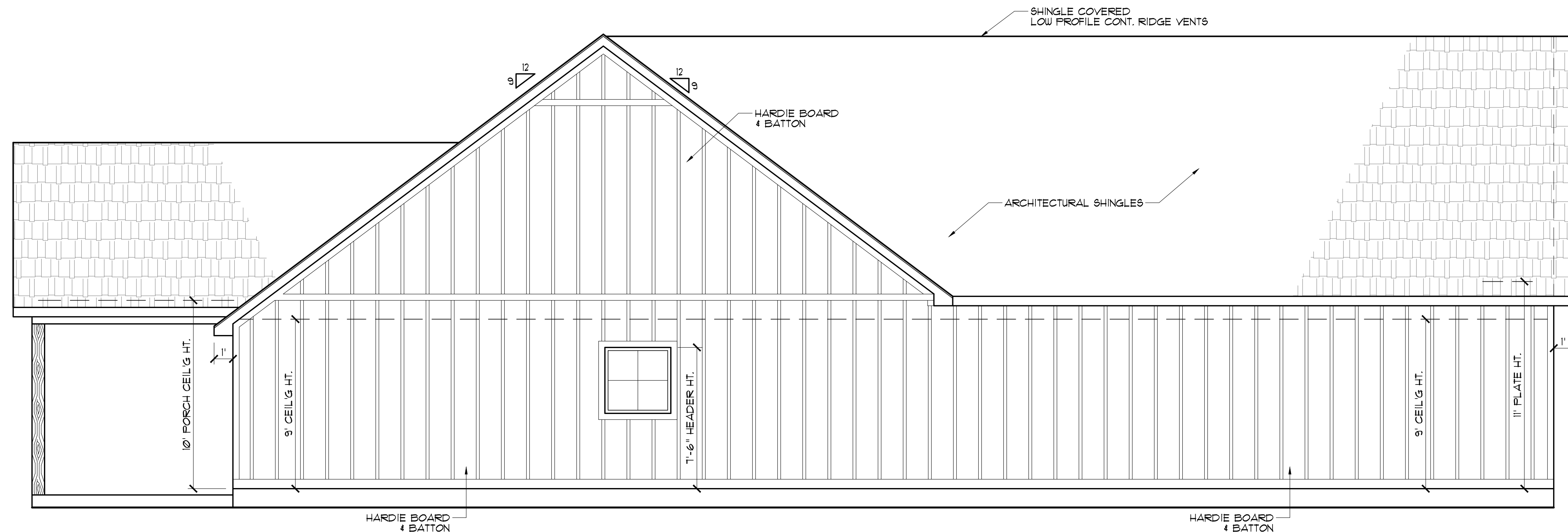
□ Construction Doc.

A3.1

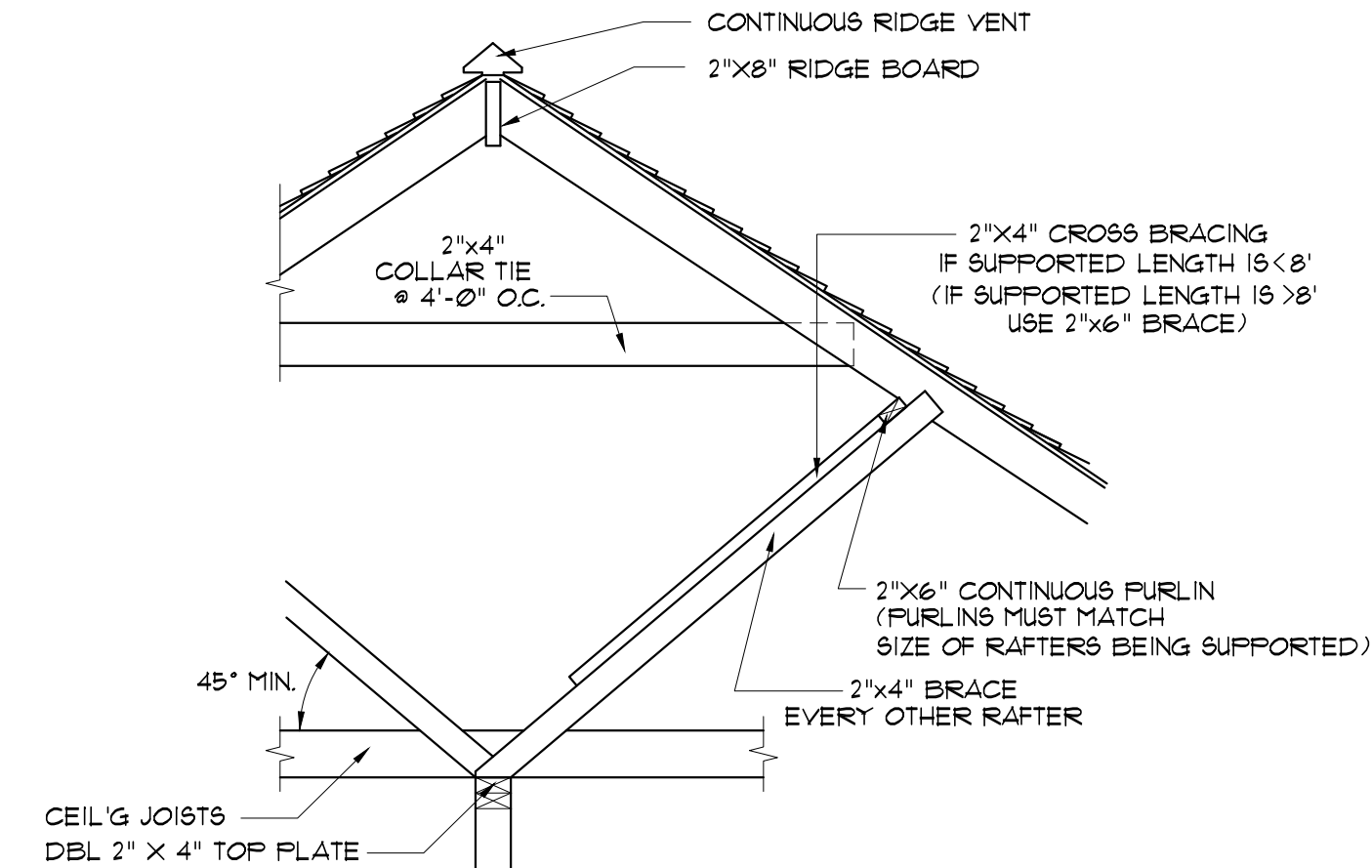
DOF
R



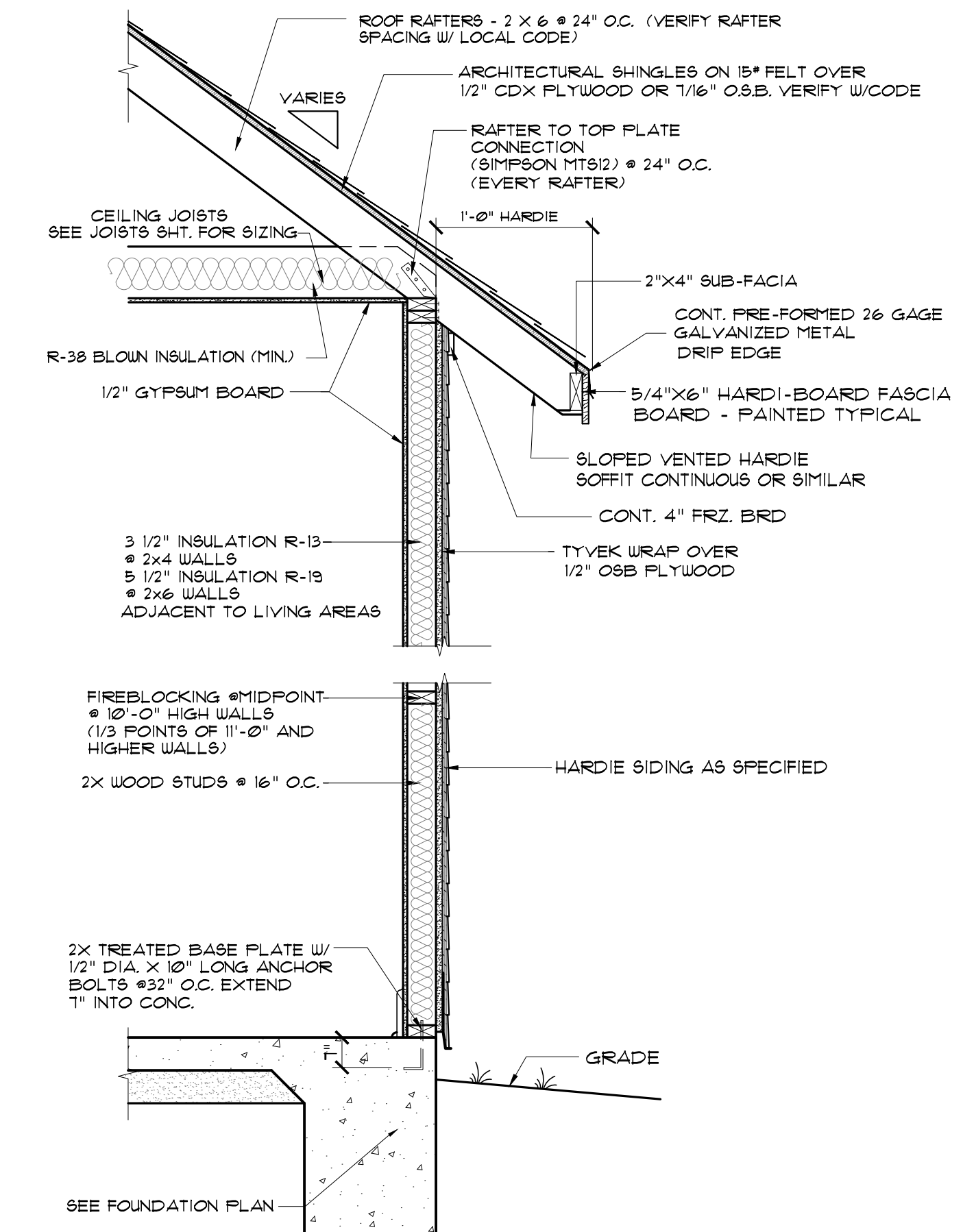
RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



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



TYPICAL ROOF
BRACING DETAIL
SCALE: 1/2" = 1'



TYPICAL WALL
SECTION - HARDIE
SCALE: 3/4" = 1'-0"

MADDEN HOME DESIGN, LLC NOT BEING AN ARCHITECTURAL OR ENGINEERING FIRM, ASSUMES NO LIABILITY FOR ANY STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING WORK. EVERY EFFORT HAS BEEN MADE TO INSURE ALL DIMENSIONS ARE CORRECT AND ENVIRONMENTAL REGULATIONS HAVE BEEN MET. IF AN ERROR OR OMISSION DOES OCCUR, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER AT HIS OWN EXPENSE AND WITHOUT THE RESPONSIBILITY OF THE DRAFTING SERVICE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS IN THE FIELD AND SHALL BUILD HOME IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE 2021.

RESIDENCE OF
**VICTOR
CRUZ**

Project

MADDEN HOME DESIGN
8375 Rushing Road
Dentham Springs, Louisiana
70726
Phone: (225) 791-2912

A B D

Project No. DOVER HILLS - BONUS

DATE: SEPTEMBER 5, 2025

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

COPYRIGHT NOTE: © These Plans Are Subject To Federal Copyright Laws And Are To Be Used For The Lot Number And Subdivision Indicated In This Title Block Only. Use On Any Other Site Is Prohibited.

© COPYRIGHT 2024

Sheet Title

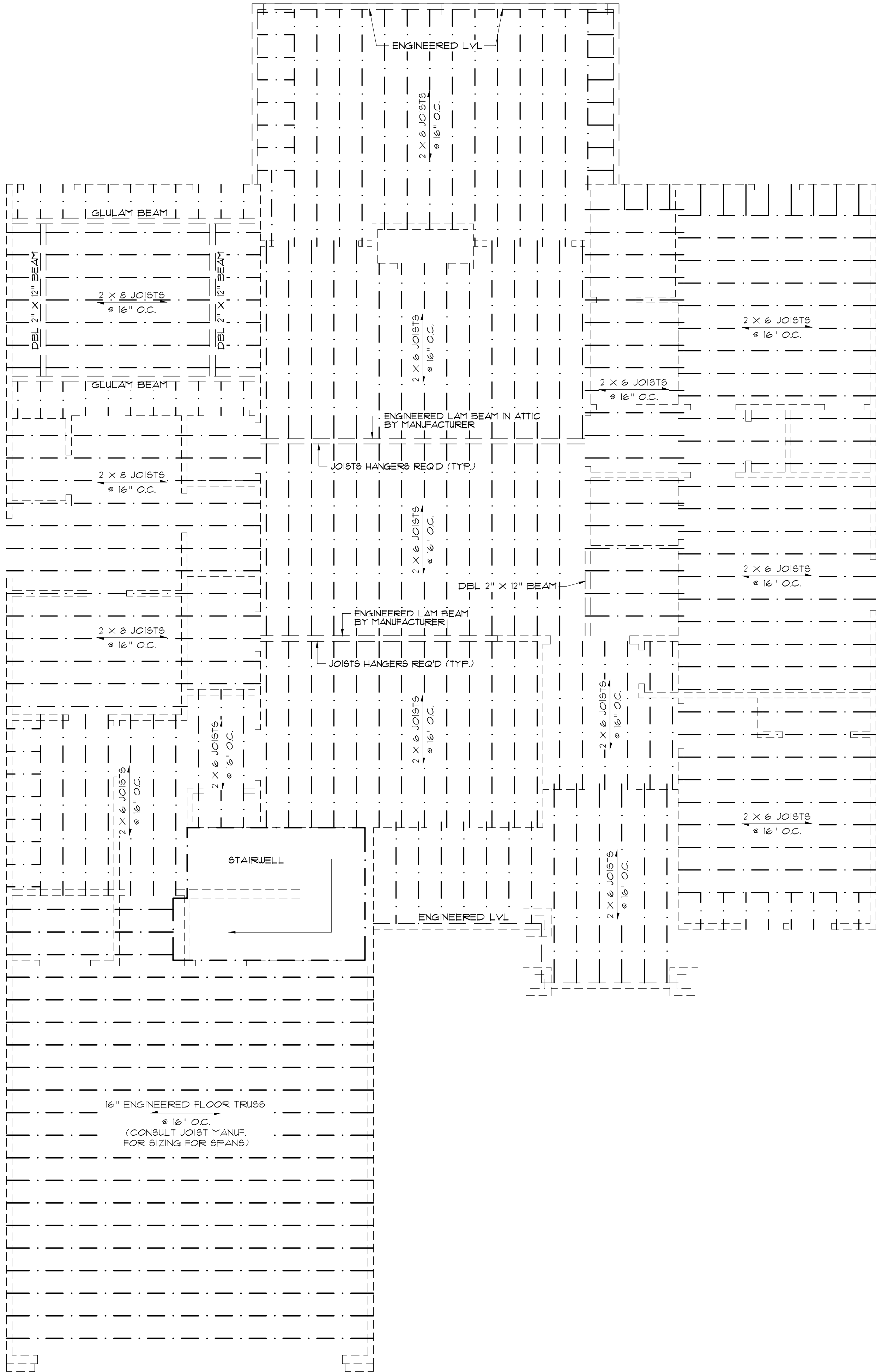
**SIDE
ELEVATIONS**

- Sheet:
- ☐ Preliminary Dwg.
☐ Bidding Doc.
☐ Construction Doc.

A3.2



A4



JOISTS FRAMING PLAN
SCALE: 1/4" = 1'-0"

DESIGN AND LAYOUT OF TRIM JOISTS
TO BE PROVIDED BY TRIM JOIST MANUFACTURER
NOTE: ALL LUMBER TO BE #2 SOUTHERN PINE

CEILING JOIST & RAFTER NOTE:

CEILING JOISTS & RAFTERS ARE SELECTED BASED ON SOUTHERN YELLOW PINE.

IF ANOTHER SPECIES OF WOOD IS USED THE JOISTS MUST BE RE-SELECTED, AND IT IS THE BUILDER OR CONTRACTOR'S RESPONSIBILITY TO RE-CALCULATE JOIST & RAFTER SIZES TO ENSURE PROPER CONSTRUCTION OF THE HOME.

GENERAL FRAMING NOTES:

THE FOLLOWING NOTES ARE SUGGESTED MINIMUM REQUIREMENTS ONLY. DUE TO A VARIANCE OF CODES PER REGION, PLEASE REFER AND COMPLY WITH ALL YOUR LOCAL CODES. CONSULT WITH LOCAL ENGINEERS FOR ALL STRUCTURAL REQUIREMENTS.

1. PROVIDE FURLINS AT MID HEIGHT OF ALL WALLS.
2. ALL JOIST AND RAFTERS SHALL BE ALIGNED OVER STUDS BELOW.
3. PROVIDE 1X4 CROSS BRACING AT MIDPOINT OF SPAN OR 8'-0" O.C. MAXIMUM IN ALL FLOORS.
4. ALL EXTERIOR CORNERS (INSIDE AND OUTSIDE CORNERS) SHALL BE BRACED WITH 3/4" CDX PLYWOOD, NAILING SCHEDULE SHALL BE 8D COMMONS AT 4" O.C. AT ALL EDGES AND 8D COMMONS AT 12" O.C. AT ALL INTERMEDIATE STUDS. (OPTION-APPROVED DIAGONAL CORNER BRACES BOTH DIRECTIONS AT ALL CORNERS).
5. ALL COLUMNS OR SOLID FRAMES SHALL EXTEND DOWN THRU ALL LEVELS AND TERMINATE AT THE BOTTOM FLOOR AND BE SUPPORTED BY THICKENED SLAB, GRADE BEAM, OR FOOTING DESIGNED TO CARRY LOAD.
6. PROVIDE DOUBLE 2X6 STRONGBACK AT MIDSPAN FOR CEILING JOISTS WITH SPAN GREATER THAN 10'-0".
7. PROVIDE COLLAR TIES AT UPPER 1/3 OF VERTICAL DISTANCE BETWEEN RIDGE BOARD AND CEILING JOISTS AT 4'-0" O.C. MAXIMUM.
8. HIP, VALLEY RAFTERS, AND RIDGE BOARDS SHALL BE ONE "2X" SIZE LARGER THAN RAFTERS.
9. ROOF DECKING SHALL BE 3/4" CDX PLYWOOD MINIMUM.
10. WHERE PRE ENGINEERED FLOOR AND ROOF TRUSSES ARE USED, TRUSS MANUFACTURER MUST PROVIDE SHOP DRAWINGS WHICH BEAR SEAL OF REGISTERED ENGINEER IN STATE IN WHICH WORK IS TO BE PERFORMED.
11. ALL SOLID FRAMING, COLUMNS, BEAMS, ETC., TO BE DESIGNED BY LOCAL STRUCTURAL ENGINEER AND MEET ALL LOCAL CALLS.
12. ALL FRAMED WALL DIMENSIONS ARE BASED ON 2X4 STUDS UNLESS OTHERWISE NOTED.
13. COLUMNS SHALL BE ADEQUATELY ANCHORED TO SLAB TO PREVENT LATERAL DISPLACEMENT PER IRC R401.3.
14. SITE-ASSEMBLED HEADERS AND GIRDERS TO BE SIZED PER IRC TABLE R602.1(1) AND (2).
15. HEADERS AND GIRDERS WHOSE SPAN EXCEEDS THOSE LISTED IN IRC TABLE REFERENCED IN R602.1(1) AND (2) ARE TO BE ENGINEERED BEAMS TO BE SIZED BY A QUALIFIED PARTY.
16. WALLS ADJACENT TO GARAGE DOOR OPENING TO BE BRACED TO THE MINIMUM LENGTHS LISTED IN IRC R602.10.3 VIA SHEATHING OR AN ALTERNATIVE METHOD OF RESISTING SHEAR AS DESIGNED BY A QUALIFIED ENGINEER.
17. ROOF AND FLOOR SHEATHING TO COMPLY WITH SPAN CHART R503.2.1.(1)

CEILING JOIST SPANS

CEILING JOIST SPANS FOR SOUTHERN PINE SPECIES (UNINHABITABLE ATTIC WITHOUT STORAGE, LIVE LOAD = 20PSF, L_d = 240) DEAD LOAD = 10 PSF

**IF HABITABLE ATTIC SPACE OR STORAGE IS DESIRED, REFER TO INTERNATIONAL RESIDENTIAL CODE SPAN TABLES

SIZE	SPACING (INCHES)	USUALLY GRADED #2 SOUTHERN PINE (MAXIMUM CEILING JOIST SPAN) (FT.-IN.)
2"x4"	12.0	9-3
	16.0	8-0
	19.2	7-4
	24.0	6-7
2"x6"	12.0	13-11
	16.0	12-0
	19.2	11-0
	24.0	9-10
2"x8"	12.0	17-7
	16.0	15-3
	19.2	13-11
	24.0	12-6
2"x10"	12.0	20-11
	16.0	18-1
	19.2	16-6
	24.0	14-9

NOTE: THE ABOVE TABLE IS BASED ON THE IRC TABLE R502.5.1 (2)

RESIDENCE OF
VICTOR CRUZ

Project

MADDEN
HOME DESIGN

8375 Rustling Road
Dentham Springs, Louisiana
70726
Phone: (225) 791-2912

A
B D

Project No. DOVER HILLS - BONUS

DATE: SEPTEMBER 5, 2025

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

COPYRIGHT NOTE: ©
These Plans Are Subject To
Federal Copyright Laws And
Are To Be Used For The Lot
Number And Subdivision
Indicated In This Title Block
Only. Use On Any Other Site Is
Prohibited.

© COPYRIGHT 2024

Sheet Title

**JOISTS
FRAMING
LAYOUT**

Sheet:

- ☐ Preliminary Dwg.
☐ Bidding Doc.
☐ Construction Doc.

A5

MADDEN HOME DESIGN, LLC NOT BEING AN ARCHITECTURAL OR ENGINEERING FIRM, HAS NOT BEEN LICENSED TO PROVIDE ELECTRICAL, MECHANICAL, OR PLUMBING DESIGN SERVICES. EVERY EFFORT HAS BEEN MADE TO INSURE ALL DIMENSIONS ARE CORRECT AND ENVIRONMENTAL REGULATIONS HAVE BEEN MET. IF AN ERROR OR OMISSION DOES OCCUR, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER AT HIS/HER OWN EXPENSE AND WITHOUT THE RESPONSIBILITY OF THE DRAFTING SERVICE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS IN THE FIELD AND SHALL BUILD HOME IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE 2021.

RESIDENCE OF
VICTOR CRUZ

Project

MADDEN
HOME DESIGN

8375 Rushing Road
Denham Springs, Louisiana
70726
Phone: (225) 791-2912

A

B D

Project No. DOVER HILLS - BONUS

DATE: SEPTEMBER 5, 2025

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

COPYRIGHT NOTE: © These Plans Are Subject To Federal Copyright Laws And Are To Be Used For The Lot Number And Subdivision Indicated In This Title Block Only. Use On Any Other Site Is Prohibited.

© COPYRIGHT 2024

Sheet Title

ELECTRICAL PLAN

- Sheet:
- ☐ Preliminary Dwg.
☐ Bidding Doc.
☐ Construction Doc.

E1

ELECTRICAL SYMBOL LEGEND

- BRONZE UP LIGHTS (NUVO 6" LANDSCAPE)
- CABLE OUTLET
- WIRED ETHERNET OUTLET
- RECEPTACLE, 15A, 125V, 2 POLE 3 WIRE, GROUNDING, DUPLEX
- FLOOR DUPLEX RECEPTACLE
- GROUND-FAULT-CIRCUIT-INTERLIFT RECEPTACLE-USE SQUARE D QUICK GUARD FOR WP LOCATIONS
- RECEPTACLE, 50A, 220V, 2 POLE 3 WIRE, GROUNDING
- TOGGLE SWITCH, SINGLE POLE, 15A
- TOGGLE SWITCH, 3 WAY, 15A
- ELEC. DOOR BELL
- DOORBELL CHIME
- DIMMER SWITCH
- LIGHT FIXTURE, LED CEILING MOUNTED
- LIGHT FIXTURE, LED EXTERIOR FLOODS
- CEILING FAN W/ LIGHT - PROVIDE SEPERATE SWITCHES FOR F & L
- LIGHT FIXTURE - CHANDELIER W/ LED BULBS
- LED RECESSED LIGHT
- LIGHT FIXTURE - LED
- SMOKE ALARM - 110V ELEC. W/ CARBON MONOXIDE DETECTOR
- VANITY LIGHT
- VENT/LIGHT RECESSED CAN
- HEAT/VENT/LIGHT
- VENT/LIGHT ONLY
- SCONCE LIGHT
- WALL MOUNT ELECTRIC LANTERN

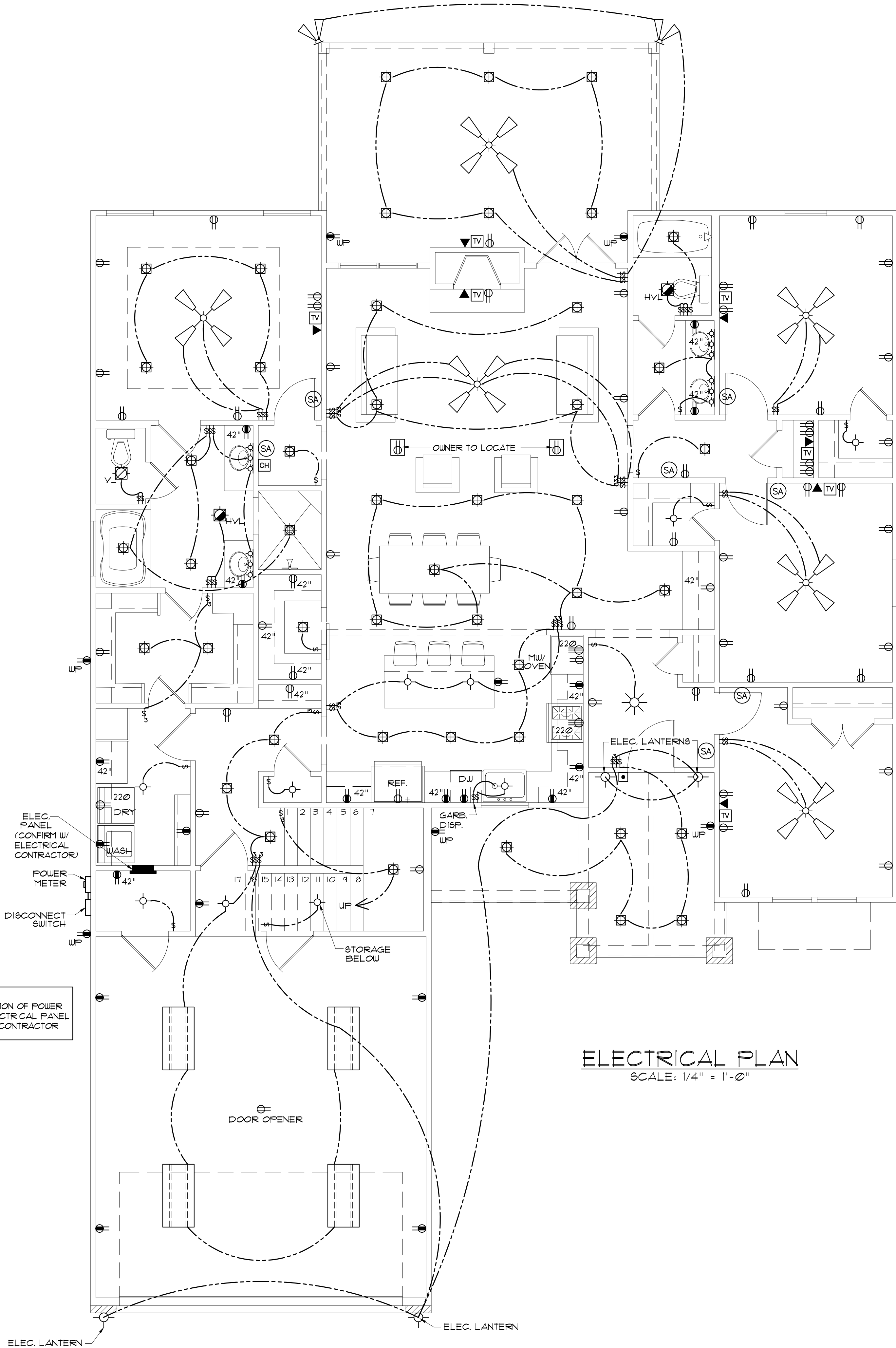
PRE-WIRE FOR THE FOLLOWING:

- CABLE VISION (ONE OUTLET PER ROOM MINIMUM)
- SECURITY SYSTEM - COORDINATE W/ OWNER
- COORDINATE ELECTRICAL SYSTEM WITH MECHANICAL CONTRACTOR
- ALL WIRING TO BE COPPER MIN. 12/2 W/ GROUND
- VERIFY LOCATION OF FLOOR OUTLETS IN FAMILY ROOM
- PROVIDE 110V OUTLET FOR GARBAGE DISPOSAL UNDER KITCHEN SINK
- PROVIDE 220V OUTLET FOR CLOTHES DRYER
- COORDINATE SURROUND SYSTEM W/ OWNER

ELECTRICAL NOTES:

- MAIN FEED INTO HOUSE TO BE TRENCHED UNDERGROUND FROM SUPPLY POLE TO METER THEN MAIN DISCONNECT OUTSIDE.
- ALL SMOKE DETECTORS TO BE ELECTRIC POWERED WITH BATTERY BACKUP AND WIRED TO SET ALL ALARMS OFF IF ONE IS TRIPPED.
- ALL EXTERIOR, KITCHEN, AND BATH OUTLETS TO BE GROUND FAULT CIRCUIT INTERRUPT EQUIPPED AND ON A SEPARATE CIRCUIT.
- ELECTRICAL DISCONNECTS ARE TO BE AT A/C UNIT, CONDENSING UNIT, AND WATER HEATER.
- HEAT VENT LIGHTS ARE TO BE ON A SEPARATE CIRCUIT.
- OUTLETS, INCLUDING ETHERNET AND CABLE, MAY BE ADDED OR CHANGED UPON OWNERS REQUEST.
- ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT TYPE AND SIZE.
- INSTALL LIGHTS IN ATTIC SPACE W/ SWITCH AT FOOT OF DISP. STAIRS
- ELECTRICAL SERVICE TO BE A 42 CIRCUIT 150 AMP MAIN LOCATED BY CONTRACTOR.
- A SUB-PANEL MAY NEED TO BE ADDED FOR ENOUGH CIRCUITS.
- HOUSE TO BE WIRED FOR A SECURITY SYSTEM.
- ALL KITCHEN OUTLETS ARE TO BE GFI EXCEPT APPLIANCE OUTLETS NOT EASILY ACCESSIBLE.
- ARC FAULT BREAKERS ARE TO BE USED IN ALL BEDROOMS.
- IF GAS FIRED APPLIANCES ARE USED IN HOME, CARBON MONOXIDE ALARMS ARE NEEDED (IRC R315).

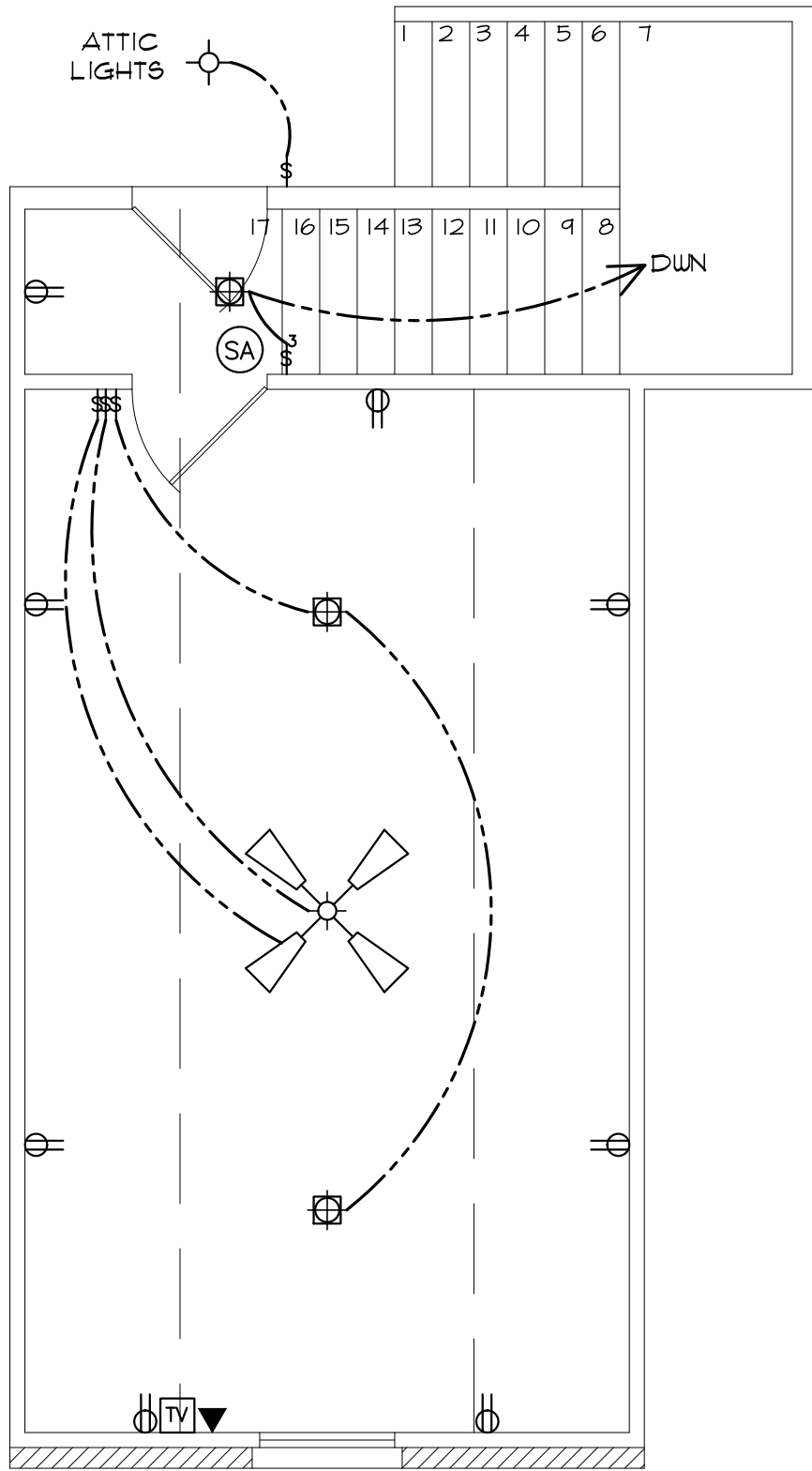
NOTE:
CONFIRM LOCATION OF POWER METER AND ELECTRICAL PANEL W/ ELECTRICAL CONTRACTOR



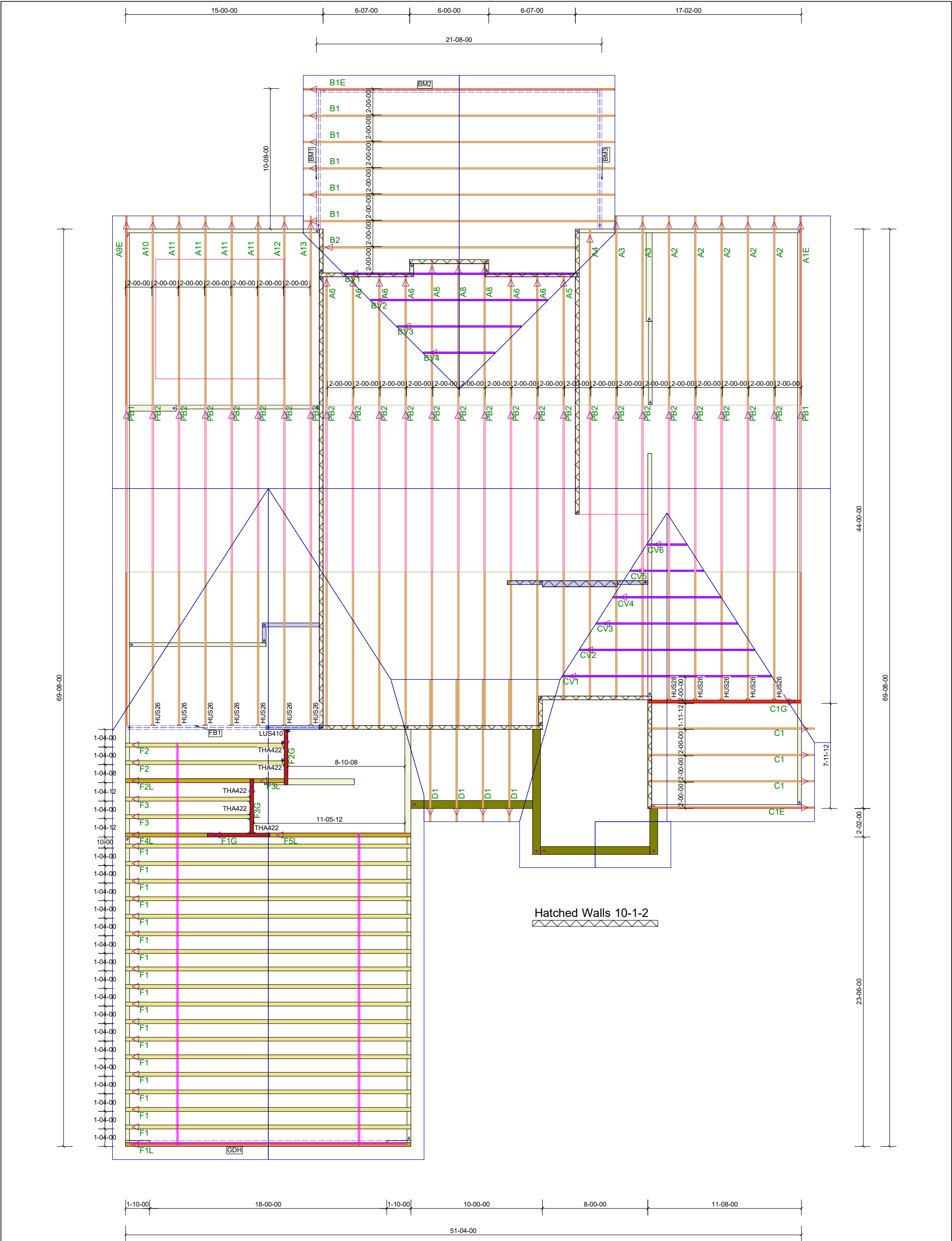
ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

IRC 2021 ELECTRICAL BUILDING CODE NOTES:

- E3202.9 LAUNDRY AREAS** - 125 VOLT THROUGH 250 VOLT RECEPTACLES INSTALLED IN LAUNDRY AREAS AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. (NEC 210.8(A)(12))
- E3202.11 KITCHEN DISHWASHER BRANCH CIRCUIT** - GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION SHALL BE PROVIDED FOR OUTLETS SUPPLIED BY BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND THAT SUPPLY DISHWASHERS IN DWELLING UNIT LOCATIONS. (NEC 422.5(A))
- E3601.8 EMERGENCY DISCONNECTS** - FOR ONE AND TWO FAMILY DWELLING UNITS, ALL SERVICE CONDUCTORS SHALL TERMINATE IN DISCONNECTING MEANS HAVING A SHORT-CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT, INSTALLED IN A READILY ACCESSIBLE OUTDOOR LOCATION. IF MORE THAN ONE DISCONNECT IS PROVIDED, THEY SHALL BE GROUPED. EACH DISCONNECT SHALL BE ONE OF THE FOLLOWING:
 - SERVICE DISCONNECTS MARKED AS FOLLOWS: "EMERGENCY DISCONNECT, SERVICE DISCONNECT"
 - METER DISCONNECT SWITCHES THAT HAVE A SHORT-CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT AND ALL METAL HOUSINGS AND SERVICE ENCLOSURES ARE GROUNDED IN ACCORDANCE WITH SECTION E3908.1 AND BONDED IN ACCORDANCE WITH SECTION 3609. A METER DISCONNECT SWITCH SHALL BE CAPABLE OF INTERRUPTING THE LOAD SERVED AND SHALL BE MARKED AS FOLLOWS: "EMERGENCY DISCONNECT, METER DISCONNECT, NOT SERVICE EQUIPMENT"
 - OTHER LISTED DISCONNECT SWITCHES OR CIRCUIT BREAKERS ON THE SUPPLY SIDE OF EACH SERVICE DISCONNECT THAT ARE SUITABLE FOR USE AS SERVICE EQUIPMENT AND MARKED AS FOLLOWS: "EMERGENCY DISCONNECT, NOT SERVICE EQUIPMENT"
- E3606.5 SURGE PROTECTION** - ALL SERVICES SUPPLYING ONE AND TWO FAMILY DWELLING UNITS SHALL BE PROVIDED WITH A SURGE-PROTECTIVE DEVICE (SPD) INSTALLED IN ACCORDANCE WITH SECTIONS E3606.5.1 THROUGH E3606.5.3
- E3606.5.1 LOCATION** - THE SPD SHALL BE AN INTEGRAL PART OF THE SERVICE EQUIPMENT OR SHALL BE LOCATED IMMEDIATELY ADJACENT THERETO. EXCEPTION: THE SPD SHALL NOT BE REQUIRED TO BE LOCATED IN THE SERVICE EQUIPMENT IF LOCATED AT EACH NEXT LEVEL DISTRIBUTION EQUIPMENT DOWNSTREAM TOWARD THE LOAD.
- E3606.5.2 TYPE** - THE SPD SHALL BE A TYPE 1 OR TYPE 2 SPD.



BONUS ROOM ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM2	22'-00"-00	1-3/4" x 9-1/4" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF
BM1	12'-00"-00	1-3/4" x 9-1/4" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF
BM3	12'-00"-00	1-3/4" x 9-1/4" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	11
Simpson	HUS28	1
Simpson	LUS410	1

11/14/2025

DESIGNED DATE

NOT TO SCALE

Roof Truss Placement Plan

Sheet # 1 of 1

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBGA DOC's B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

Designer

Unassigned

Location

2383-Dunn

2383 - Dunn

3025 Old Stage Rd S Erwin

3025 Old Stage Rd S Erwin - FLOOR

Job# - 2506047-31717

84 Components

200 Emmett Rd

Dunn NC 28334

United States

Office: (910) 892-8400



RoofDropped Beams\BM2(i59) (Dropped Beam)

BC Design Engine Member Report

Dry | 2 spans | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: RoofDropped Beams\BM2(i59)

City, State, Zip:

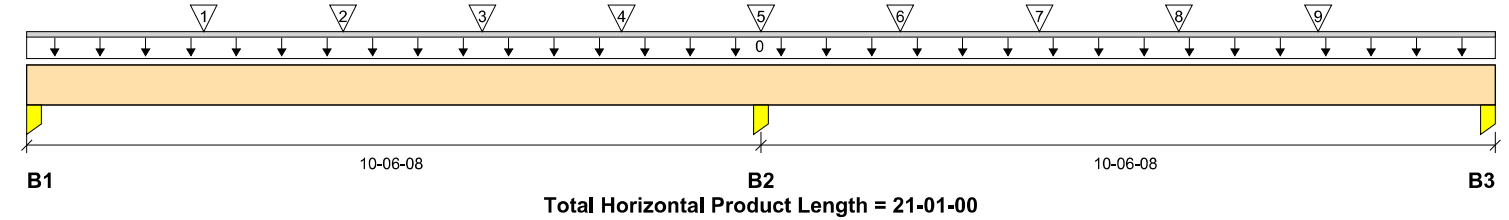
Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-3/4"		165 / 0	48 / 0	80 / 210	179 / 30
B2, 5-7/16"		622 / 0	172 / 0	139 / 840	597 / 0
B3, 3-3/4"		165 / 0	48 / 0	80 / 210	179 / 30

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	21-01-00	Top		9				00-00-00
1	B1E(c01)	Conc. Pt. (lbs)	L	02-06-08	02-06-08	Top		111	37		124	n/a
2	B1E(c01)	Conc. Pt. (lbs)	L	04-06-08	04-06-08	Top		71	26		99	n/a
3	B1E(c01)	Conc. Pt. (lbs)	L	06-06-08	06-06-08	Top		84	30		97	n/a
4	B1E(c01)	Conc. Pt. (lbs)	L	08-06-08	08-06-08	Top		80	28		90	n/a
5	B1E(c01)	Conc. Pt. (lbs)	L	10-06-08	10-06-08	Top		62	17		76	n/a
6	B1E(c01)	Conc. Pt. (lbs)	L	12-06-08	12-06-08	Top		80	28		90	n/a
7	B1E(c01)	Conc. Pt. (lbs)	L	14-06-08	14-06-08	Top		84	30		97	n/a
8	B1E(c01)	Conc. Pt. (lbs)	L	16-06-08	16-06-08	Top		71	26		99	n/a
9	B1E(c01)	Conc. Pt. (lbs)	L	18-06-08	18-06-08	Top		111	37		124	n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	910 ft-lbs	14.8%	125%	3	16-06-08
Neg. Moment	-944 ft-lbs	15.3%	125%	3	10-06-08
End Shear	334 lbs	4.3%	125%	2	01-01-00
Cont. Shear	531 lbs	6.9%	125%	1	11-06-07
Total Load Deflection	L/999 (0.034")	n/a	n/a	3	16-02-00
Live Load Deflection	L/999 (0.02")	n/a	n/a	445	16-00-08
Total Neg. Defl.	L/999 (-0.002")	n/a	n/a	169	08-11-00
Max Defl.	0.034"	n/a	n/a	3	16-02-00
Span / Depth	13.4				

Bearing Supports

B1	Column	3-3/4" x 3-1/2"	344 lbs	3.6%	3.5%	Unspecified
B2	Column	5-7/16" x 3-1/2"	1219 lbs	8.8%	8.5%	Unspecified
B2	Uplift		131 lbs			
B3	Column	3-3/4" x 3-1/2"	344 lbs	3.6%	3.5%	Unspecified

Cautions

Uplift of -131 lbs found at bearing B2.

Member is not fully supported at post B1. A connector is required at this bearing.

Member is not fully supported at post B2. A connector is required at this bearing.

Member is not fully supported at post B3. A connector is required at this bearing.

Roof\Dropped Beams\BM2(i59) (Dropped Beam)

BC Design Engine Member Report

Dry | 2 spans | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof\Dropped Beams\BM2(i59)

City, State, Zip:

Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Wind loads determined from building geometry were used in selected product's verification.

Unbalanced snow loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

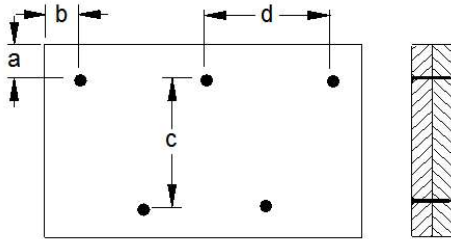
BC CALC® analysis is based on IBC 2021.

Calculations assume unbraced length of Top: 21-01-00, Bottom: 21-01-00.

Bearing length at bearing(s) B2 was calculated based on the actual bearing area divided by the supported member width and may not match expected value when bearing is not rectangular or when the supported member is not supported by its full width.

One or more plies are not properly supported at bearing(s) B2. Verify with structural engineer or EWP manufacturer if this condition is acceptable.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5-1/4"

b minimum = 3"

d = 24"

Calculated Side Load = 0.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,


Roof/Dropped Beams\GDH(i67) (Dropped Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof/Dropped Beams\GDH(i67)

City, State, Zip:

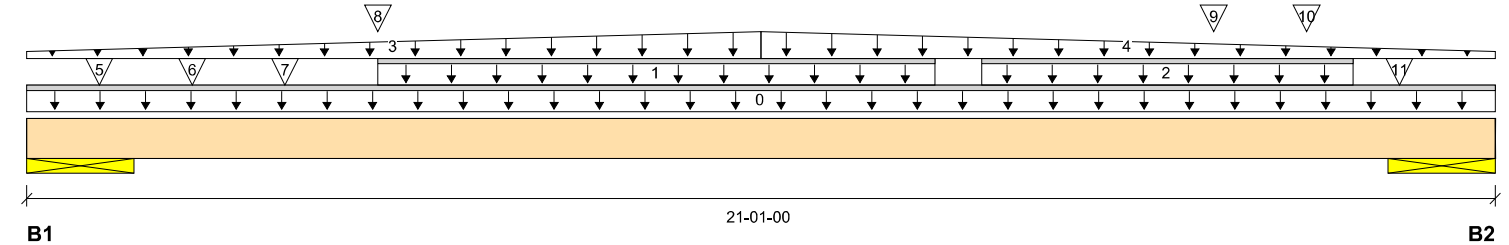
Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 21-01-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 18-1/2"	343 / 0	2842 / 0			
B2, 18-1/2"	338 / 0	2837 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	21-01-00	Top		36				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	05-00-08	13-00-08	Top	34	24				n/a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	13-08-08	19-00-08	Top	34					n/a
3	User Load	Trapezoidal (lb/ft)	L	00-00-00	10-06-08	Top		80				n/a
4	User Load	Trapezoidal (lb/ft)	L	10-06-08	21-01-00	Top		310				n/a
5	F1L(c01)	Conc. Pt. (lbs)	L	01-00-08	01-00-08	Top	40					n/a
6	F1L(c01)	Conc. Pt. (lbs)	L	02-04-08	02-04-08	Top	45					n/a
7	F1L(c01)	Conc. Pt. (lbs)	L	03-08-08	03-08-08	Top	46	186				n/a
8	F1L(c01)	Conc. Pt. (lbs)	L	05-00-08	05-00-08	Top	46					n/a
9	F1L(c01)	Conc. Pt. (lbs)	L	17-00-08	17-00-08	Top		162				n/a
10	F1L(c01)	Conc. Pt. (lbs)	L	18-04-08	18-04-08	Top		83				n/a
11	F1L(c01)	Conc. Pt. (lbs)	L	19-08-08	19-08-08	Top	45					n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	14285 ft-lbs	93.0%	100%	1	10-04-08
End Shear	2513 lbs	11.7%	90%	0	03-06-08
Total Load Deflection	L/999 (0.078")	n/a	n/a	1	10-06-08
Live Load Deflection	L/999 (0.008")	n/a	n/a	2	10-06-08
Max Defl.	0.078"	n/a	n/a	1	10-06-08
Span / Depth	9.1				
Dist. Load (B1)	113.64 lb/ft	1.8%	90%		
Dist. Load (B2)	113.64 lb/ft	1.8%	90%		
Conc. Load (B1)	71 lbs	0.7%	100%		
Conc. Load (B2)	69 lbs	0.6%	100%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 18-1/2" x 5-1/4"	3186 lbs	7.7%	4.4%	Spruce-Pine-Fir
B2	Wall/Plate 18-1/2" x 5-1/4"	3174 lbs	7.7%	4.4%	Spruce-Pine-Fir

Roof/Dropped Beams\GDH(i67) (Dropped Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof/Dropped Beams\GDH(i67)

City, State, Zip:

Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

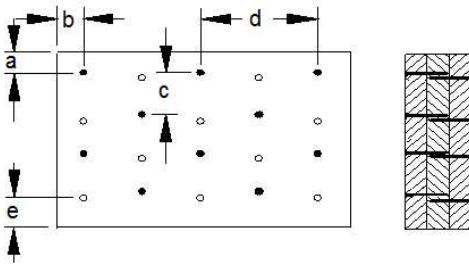
Design meets arbitrary (0.75") Maximum live load deflection criteria.

Design based on Dry Service Condition.

BC CALC® analysis is based on IBC 2021.

Calculations assume unbraced length of Top: 21-01-00, Bottom: 21-01-00.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 6-3/8"

b minimum = 3"

d = 24"

e minimum = 3"

Calculated Side Load = 0.0 lb/ft

Nailing applies to both sides of the member.

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,



BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof\Flush Beams\BM1(i58)

City, State, Zip:

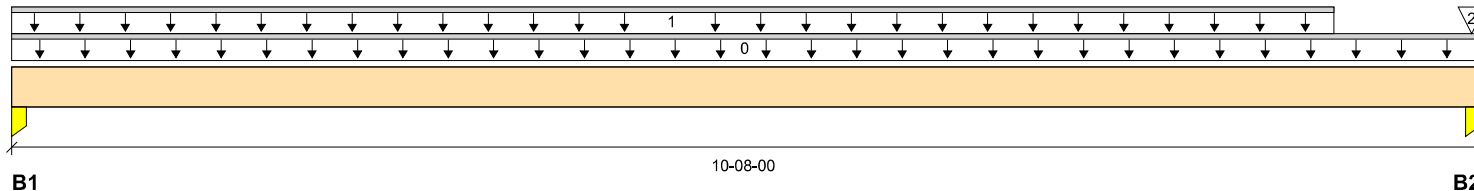
Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 10-08-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 7-1/4"		1369 / 0	479 / 0	561 / 1763	1387 / 0
B2, 7-1/4"		1096 / 0	391 / 0	465 / 1504	1129 / 0

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-08-00	Top		9				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-00-00	09-07-04	Top		237	86		249	n/a
2	B1E(c01)	Conc. Pt. (lbs)	L	10-07-04	10-07-04	Top		85	42		121	n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	5386 ft-lbs	33.1%	125%	1	04-07-04
Neg. Moment	-443 ft-lbs	3.4%	160%	261	04-07-04
End Shear	2006 lbs	26.1%	125%	1	09-03-08
Total Load Deflection	L/573 (0.201")	62.8%	n/a	1	05-04-04
Live Load Deflection	L/999 (0.101")	n/a	n/a	263	05-04-04
Max Defl.	0.201"	20.1%	n/a	1	05-04-04
Span / Depth	12.4				

Bearing Supports

Bearing Supports		Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column	7-1/4" x 3-1/2"	2756 lbs	15.0%	14.5%	Unspecified
B1	Uplift		237 lbs			
B2	Column	7-1/4" x 3-1/2"	2225 lbs	12.1%	11.7%	Unspecified
B2	Uplift		245 lbs			

Cautions

Uplift of -245 lbs found at bearing B2.

Member is not fully supported at post B1. A connector is required at this bearing.

Member is not fully supported at post B2. A connector is required at this bearing.

Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Wind loads determined from building geometry were used in selected product's verification.

Unbalanced snow loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

BC CALC® analysis is based on IBC 2021.

Calculations assume unbraced length of Top: 01-10-08, Bottom: 10-04-08.

Roof\Flush Beams\BM1(i58) (Flush Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof\Flush Beams\BM1(i58)

City, State, Zip:

Specifier:

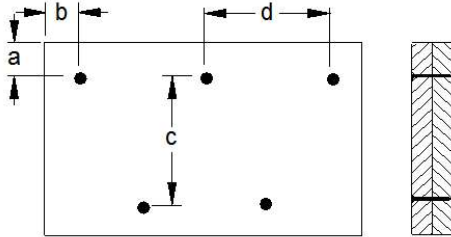
Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5-1/4"

b minimum = 3"

d = 24"

Calculated Side Load = 0.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,



Roof\Flush Beams\BM3(i60) (Flush Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof\Flush Beams\BM3(i60)

City, State, Zip:

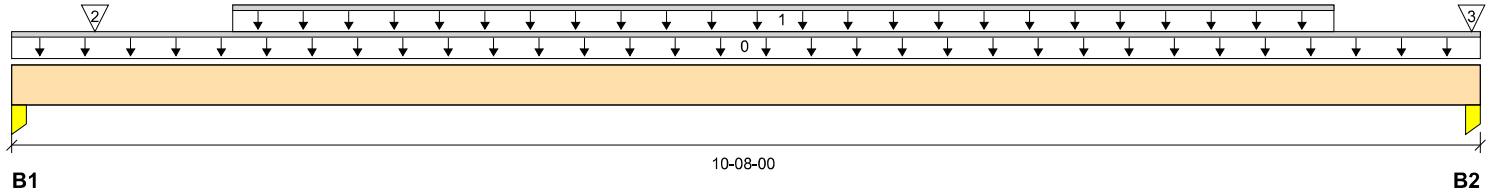
Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 7-1/4"		1394 / 0	497 / 0	588 / 1829	1437 / 0
B2, 7-1/4"		1096 / 0	391 / 0	465 / 1504	1129 / 0

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-08-00	Top		9				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	01-07-04	09-07-04	Top		228	83		239	n/a
2	B1(c05)	Conc. Pt. (lbs)	L	00-07-04	00-07-04	Top		485	186		537	n/a
3	B1E(c01)	Conc. Pt. (lbs)	L	10-07-04	10-07-04	Top		85	42		121	n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	5386 ft-lbs	33.1%	125%	1	04-07-04
Neg. Moment	-443 ft-lbs	3.4%	160%	261	04-07-04
End Shear	2006 lbs	26.1%	125%	1	09-03-08
Total Load Deflection	L/573 (0.201")	62.8%	n/a	1	05-04-04
Live Load Deflection	L/999 (0.101")	n/a	n/a	263	05-04-04
Max Defl.	0.201"	20.1%	n/a	1	05-04-04
Span / Depth	12.4				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1 Column	7-1/4" x 3-1/2"	2831 lbs	15.4%	14.9%	Unspecified
B1 Uplift		261 lbs			
B2 Column	7-1/4" x 3-1/2"	2225 lbs	12.1%	11.7%	Unspecified
B2 Uplift		245 lbs			

Cautions

Uplift of -261 lbs found at bearing B1.

Member is not fully supported at post B1. A connector is required at this bearing.

Member is not fully supported at post B2. A connector is required at this bearing.

Roof\Flush Beams\BM3(i60) (Flush Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof\Flush Beams\BM3(i60)

City, State, Zip:

Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Wind loads determined from building geometry were used in selected product's verification.

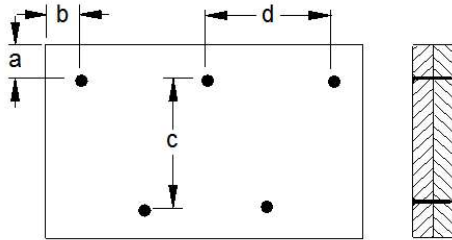
Unbalanced snow loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

BC CALC® analysis is based on IBC 2021.

Calculations assume unbraced length of Top: 01-10-08, Bottom: 10-04-08.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5-1/4"

b minimum = 3"

d = 24"

Calculated Side Load = 0.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,



Roof\Flush Beams\FB1(i69) (Flush Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof\Flush Beams\FB1(i69)

City, State, Zip:

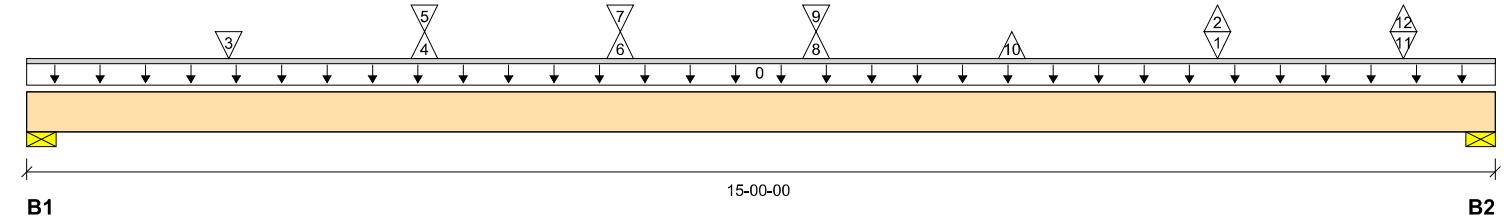
Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 15-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	85 / 0	276 / 0	16 / 31	118 / 94	98 / 129
B2, 3-1/2"	394 / 0	864 / 0	39 / 32	110 / 137	198 / 156

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	15-00-00	Top		16				00-00-00
1	-	Conc. Pt. (lbs)	L	12-01-15	12-01-15	Front	479	596	3		68	n/a
2	-	Conc. Pt. (lbs)	L	12-01-15	12-01-15	Front					-52	n/a
3	A10(c01)	Conc. Pt. (lbs)	L	02-00-12	02-00-12	Back		62	16		52	n/a
4	A11(c04)	Conc. Pt. (lbs)	L	04-00-12	04-00-12	Back		-5	-11		-55	n/a
5	A11(c04)	Conc. Pt. (lbs)	L	04-00-12	04-00-12	Back					27	n/a
6	A11(c03)	Conc. Pt. (lbs)	L	06-00-12	06-00-12	Back		-9	-14		-55	n/a
7	A11(c03)	Conc. Pt. (lbs)	L	06-00-12	06-00-12	Back					19	n/a
8	A11(c02)	Conc. Pt. (lbs)	L	08-00-12	08-00-12	Back		-15	-18		-55	n/a
9	A11(c02)	Conc. Pt. (lbs)	L	08-00-12	08-00-12	Back					5	n/a
10	A11(c01)	Conc. Pt. (lbs)	L	10-00-12	10-00-12	Back		-18	-20		-58	n/a
11	A13(c01)	Conc. Pt. (lbs)	L	14-00-12	14-00-12	Back		285	36		124	n/a
12	A13(c01)	Conc. Pt. (lbs)	L	14-00-12	14-00-12	Back					-8	n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	2658 ft-lbs	18.7%	100%	1	12-00-12
End Shear	1084 lbs	10.2%	100%	1	13-04-08
Total Load Deflection	L/999 (0.04")	n/a	n/a	146	08-03-12
Live Load Deflection	L/999 (0.019")	n/a	n/a	1371	08-00-12
Max Defl.	0.04"	n/a	n/a	146	08-03-12
Span / Depth	10.9				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3-1/2" x 3-1/2"	466 lbs	6.7%	5.1%	Southern Pine
B2	Wall/Plate 3-1/2" x 3-1/2"	1357 lbs	15.3%	14.8%	Unspecified

Roof\Flush Beams\FB1(i69) (Flush Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

November 12, 2025 15:25:28

Build 8898

Job name:

File name: 250604731716.mmdl

Address:

Description: Roof\Flush Beams\FB1(i69)

City, State, Zip:

Specifier:

Customer:

Designer: [Designer Alias]

Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Wind loads determined from building geometry were used in selected product's verification.

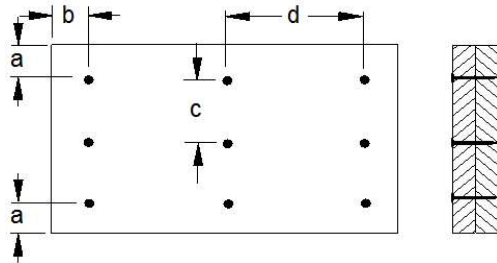
Unbalanced snow loads determined from building geometry were used in selected product's verification.

Design based on Dry Service Condition.

BC CALC® analysis is based on IBC 2021.

Calculations assume unbraced length of Top: 12-00-08, Bottom: 01-10-08.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 6"

b minimum = 3"

d = 12"

Calculated Side Load = 434.0 lb/ft

Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

