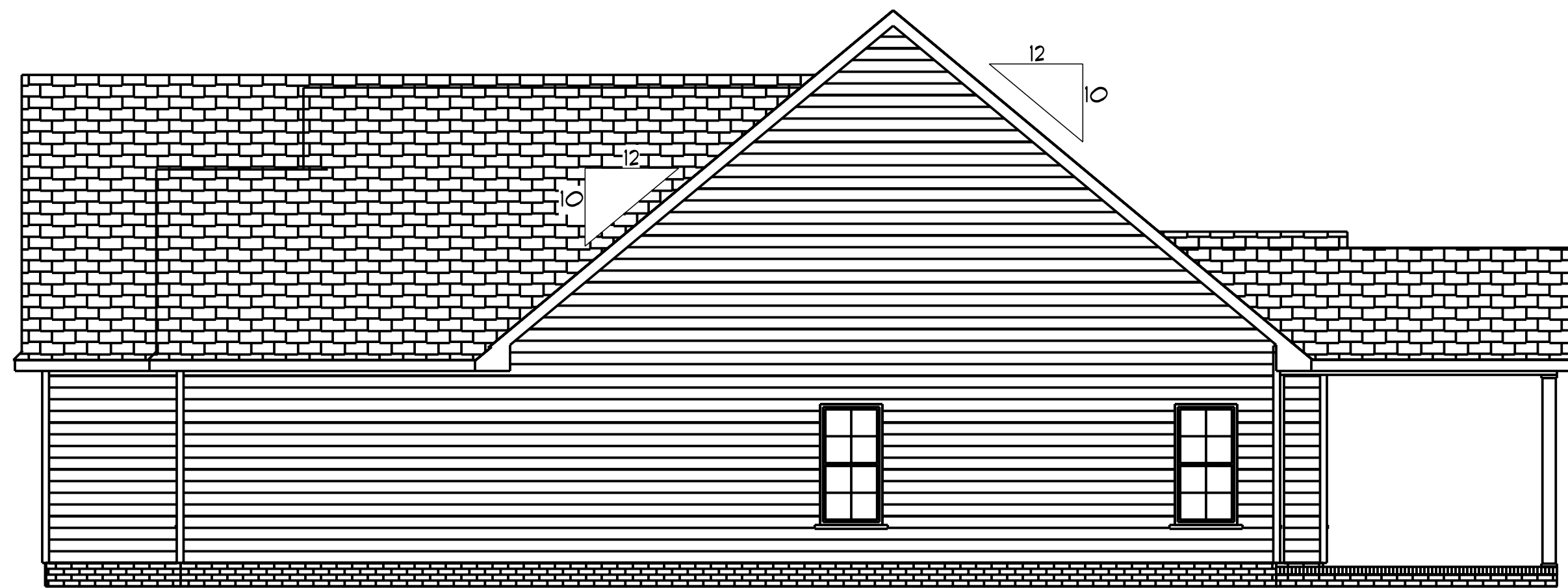




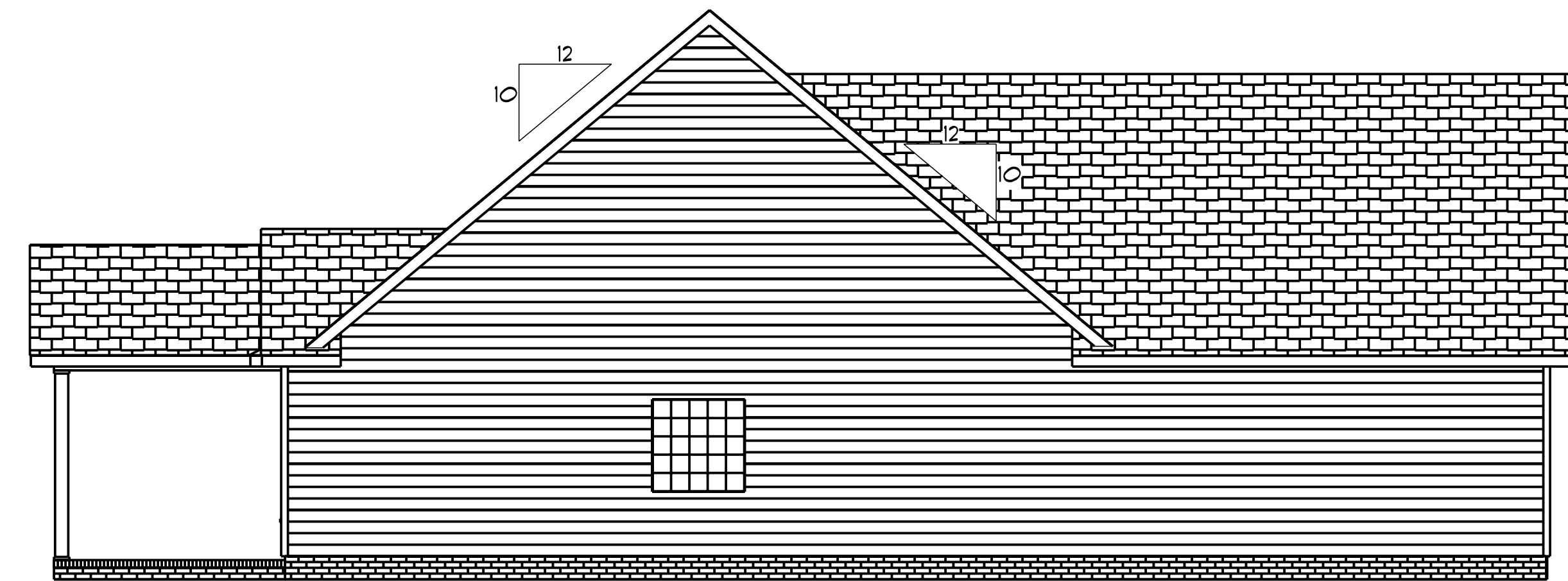
Front Elevation
Scale: 1/4" = 1'0"



Rear Elevation
Scale: 3/16" = 1'0"



Right Elevation
Scale: 3/16" = 1'0"



Left Elevation
Scale: 3/16" = 1'0"

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

09/22/2022




DATE: 9/24/2022

REVISED

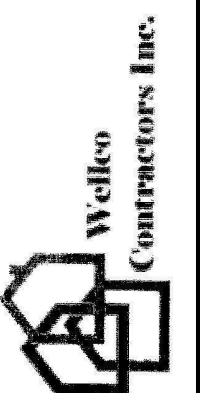
DRAWING*

SCALE: 1/4"

DRAWN BY

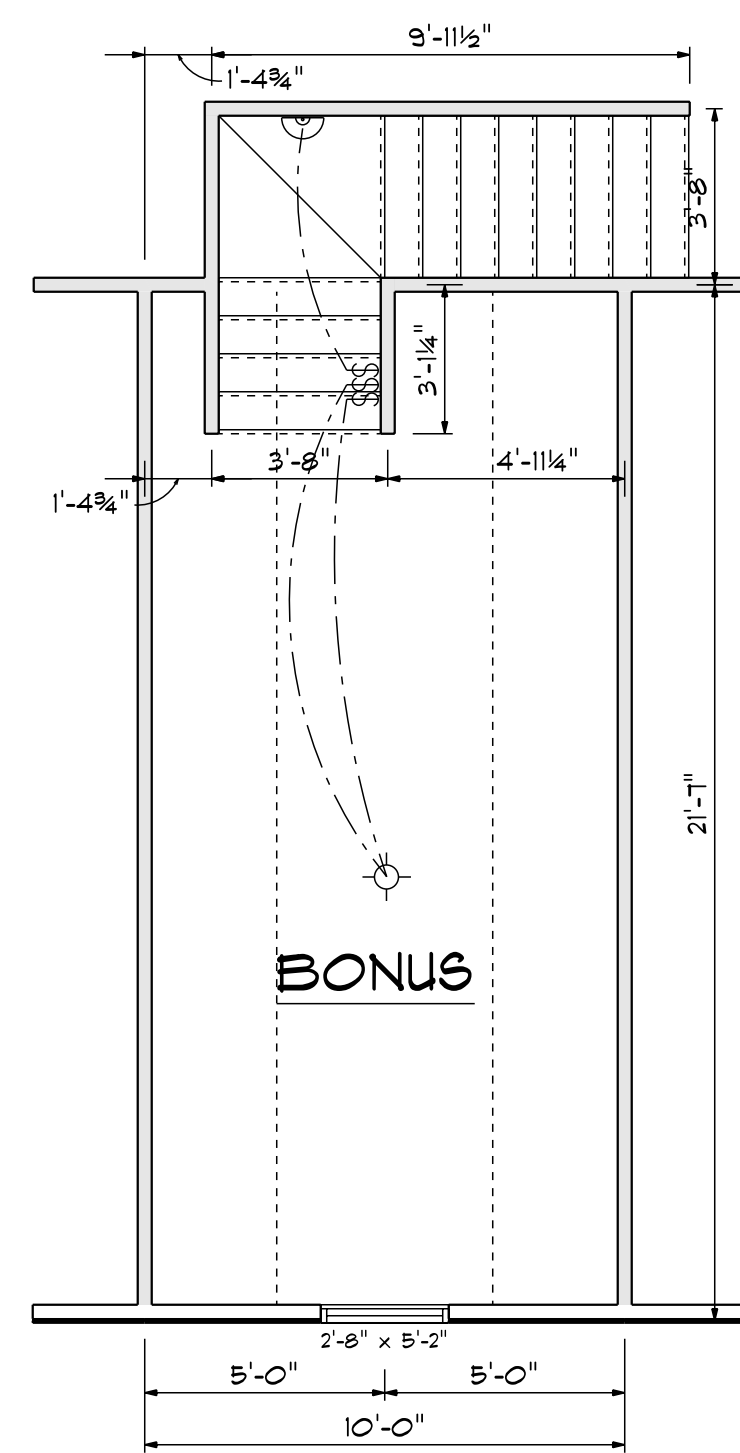
APPROVED

Plan #11



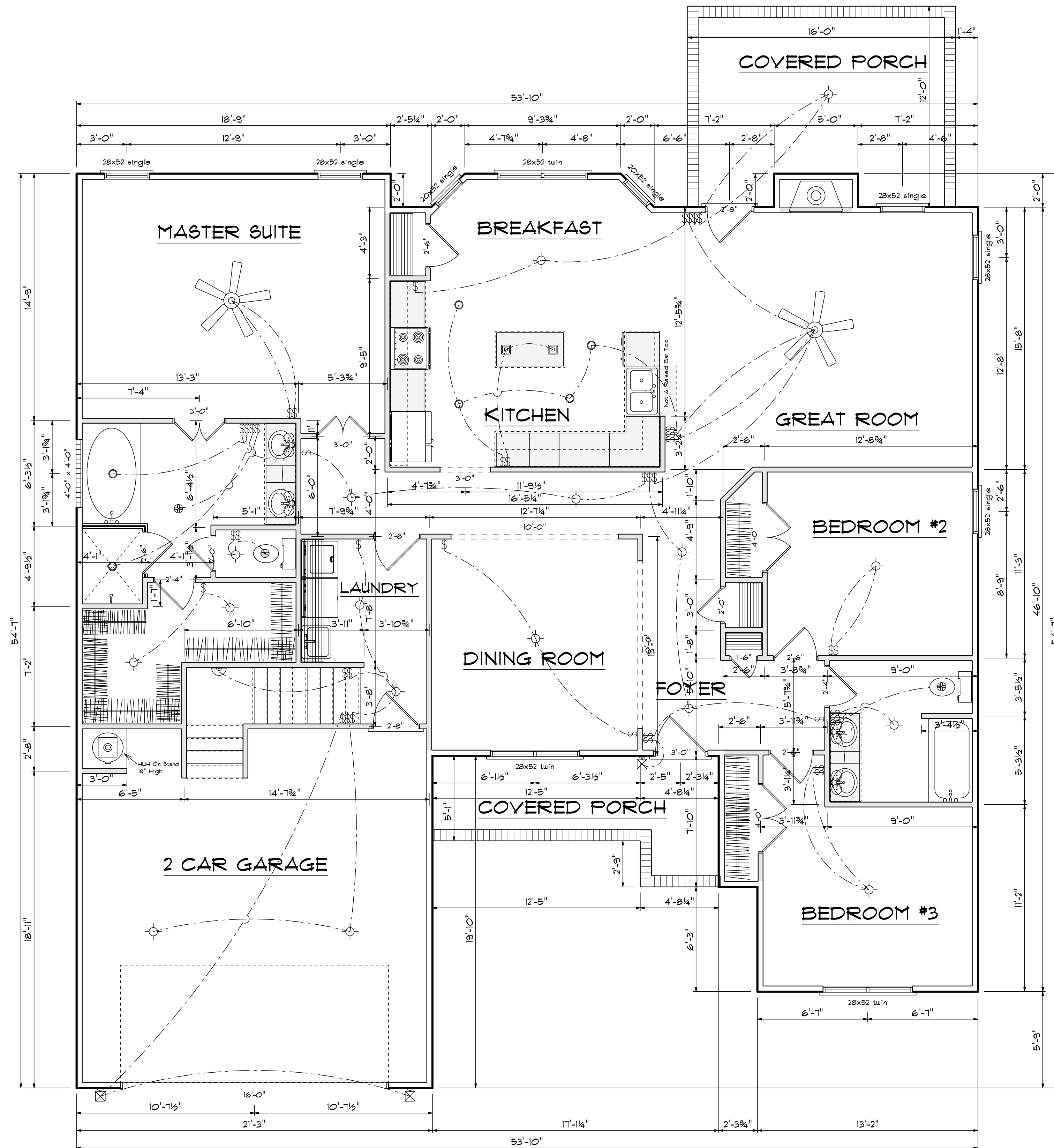
Areas

Main Floor	2001
Bonus Room	208
=====	
Total Heated	2209
Garage	451
Front Porch	99
Rear Porch	132



Bonus Room Plan

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



Main Floor Plan

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

DATE: 8/24/2022

REVISED

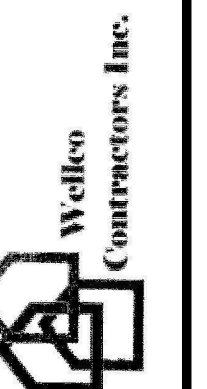
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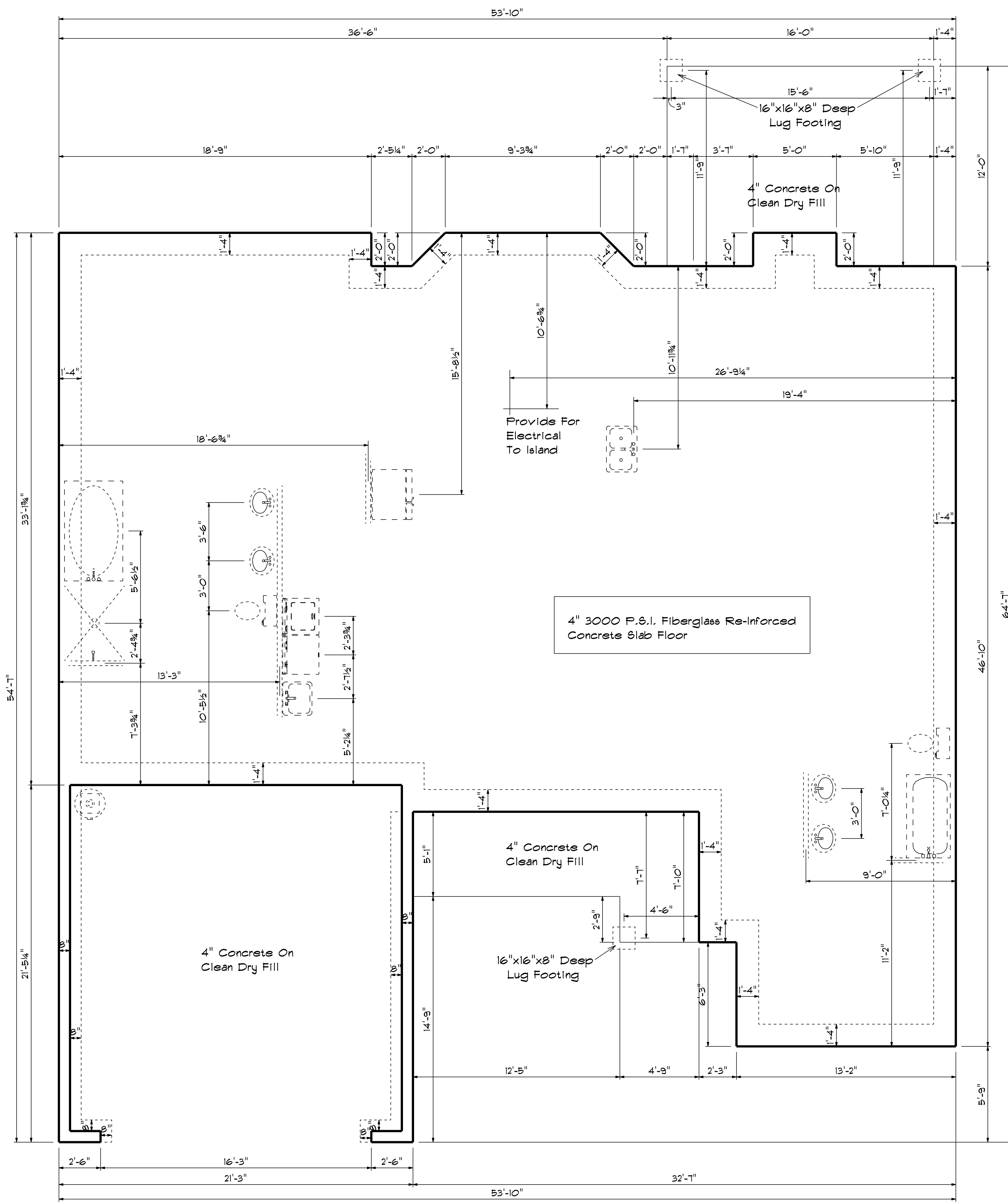
SCALE: 1/4"

DRAWN BY

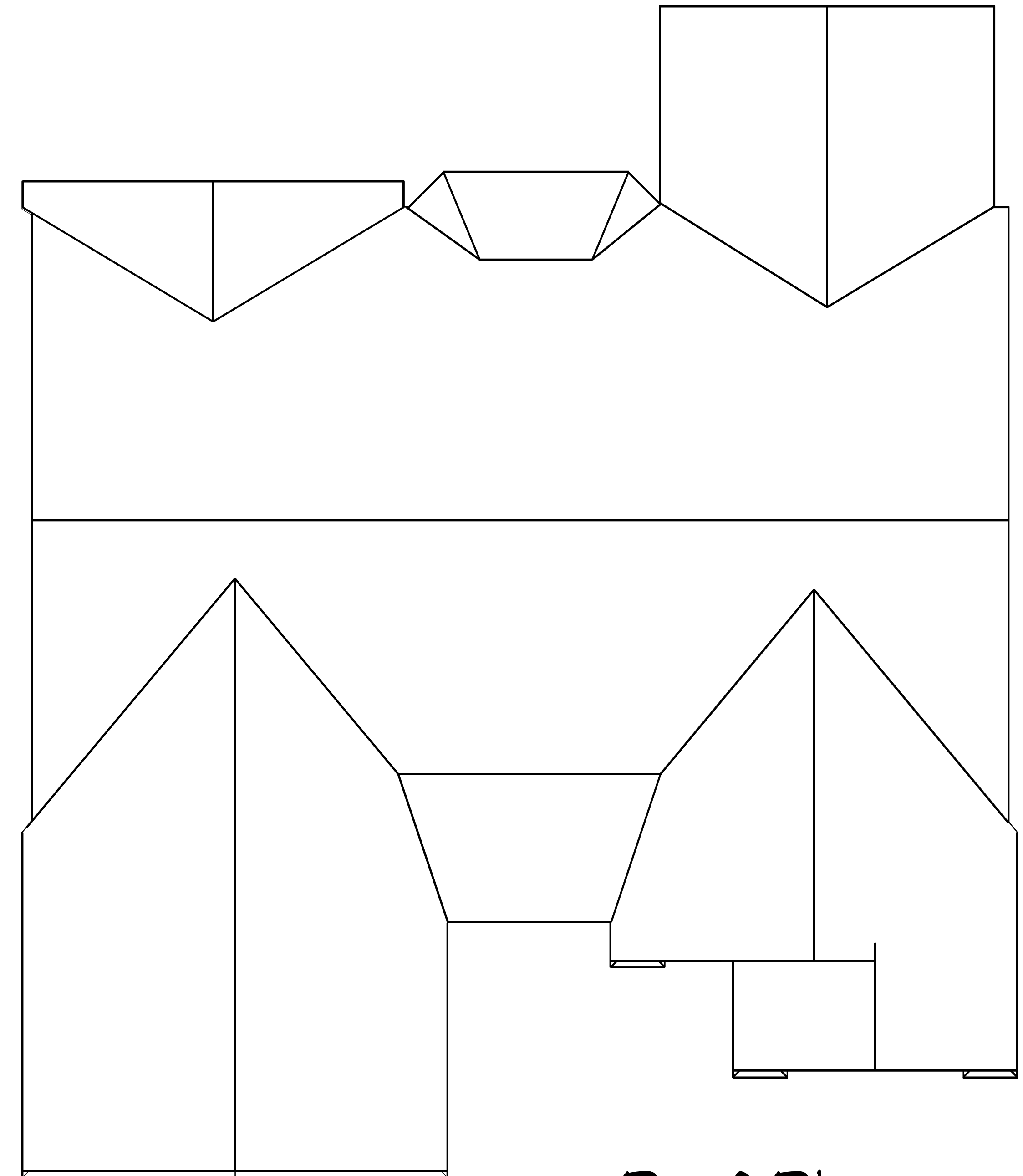
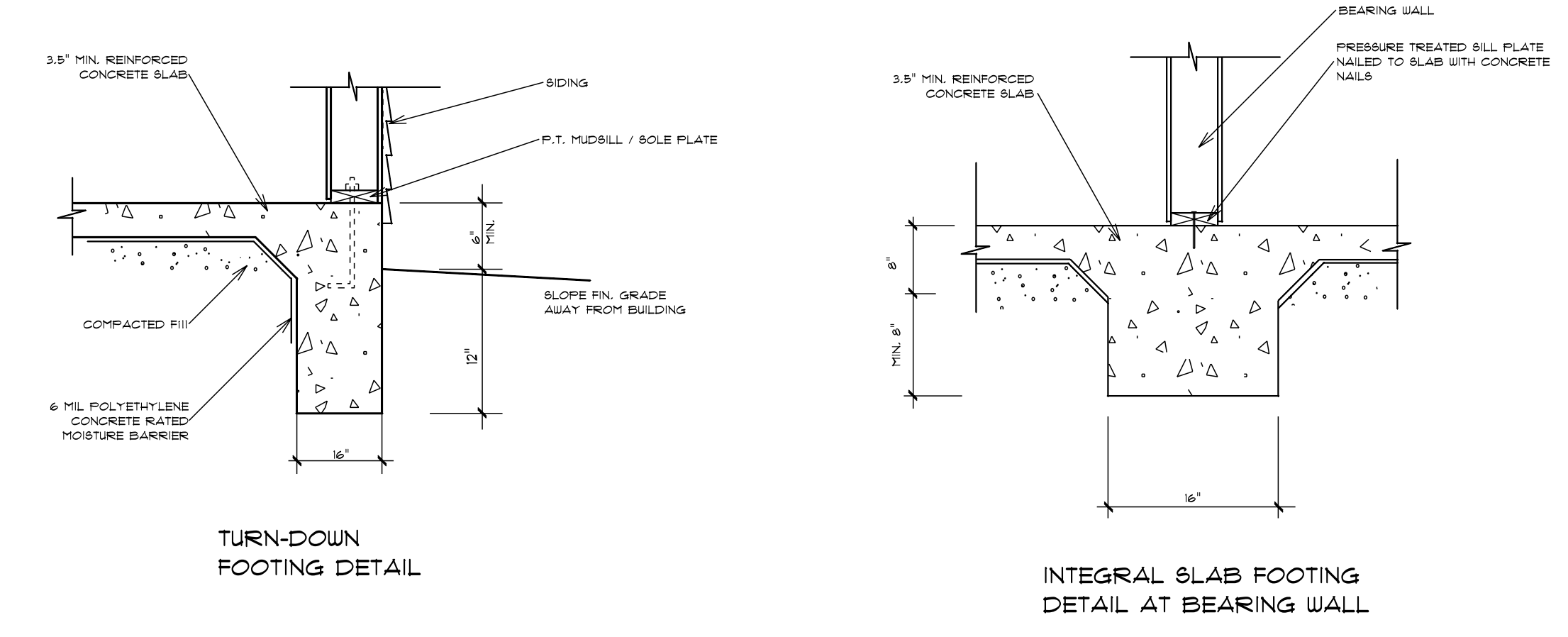
APPROVED

Plan #11





Foundation Plan
Scale: 1/4" = 1'-0"

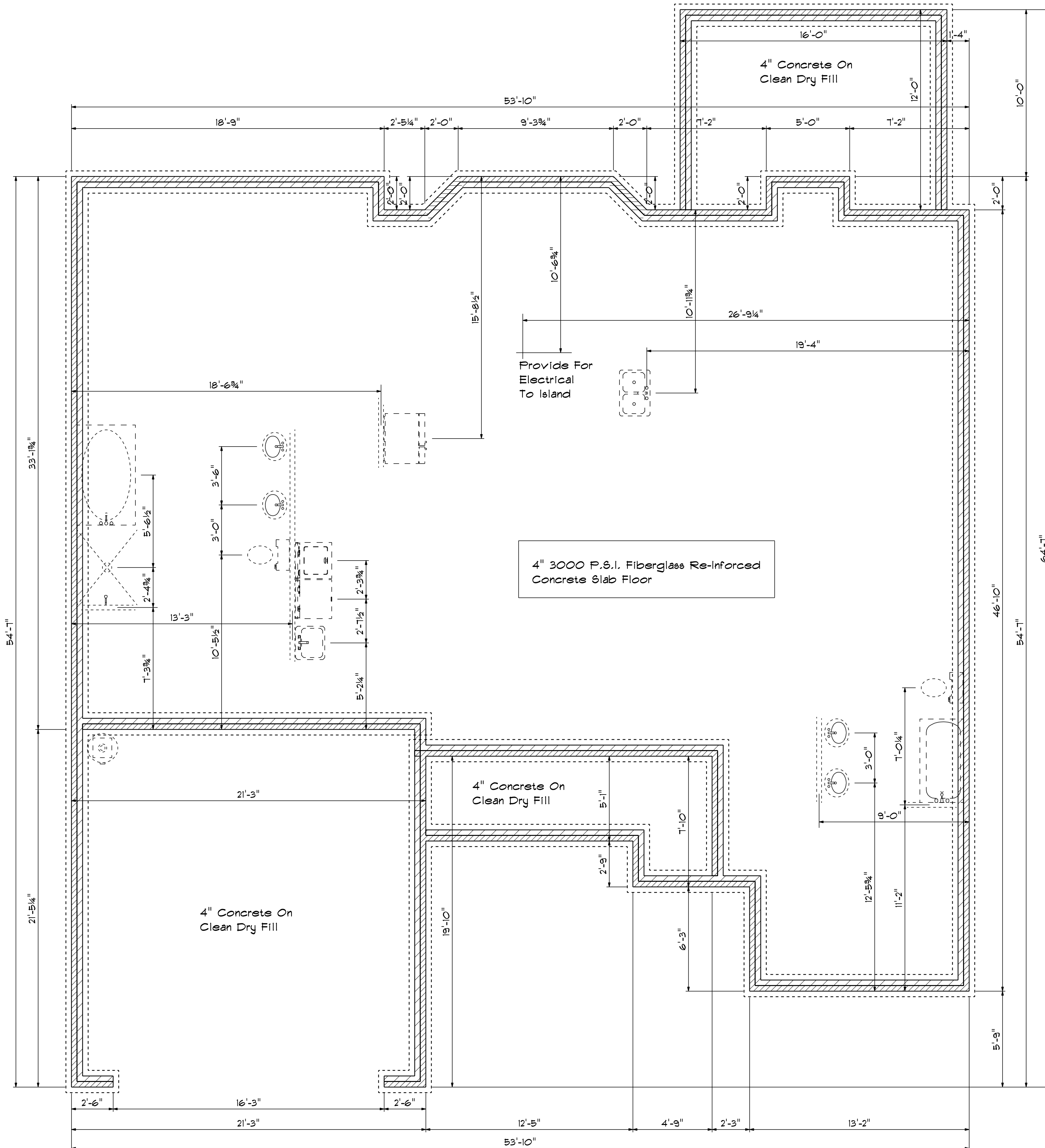


Roof Plan

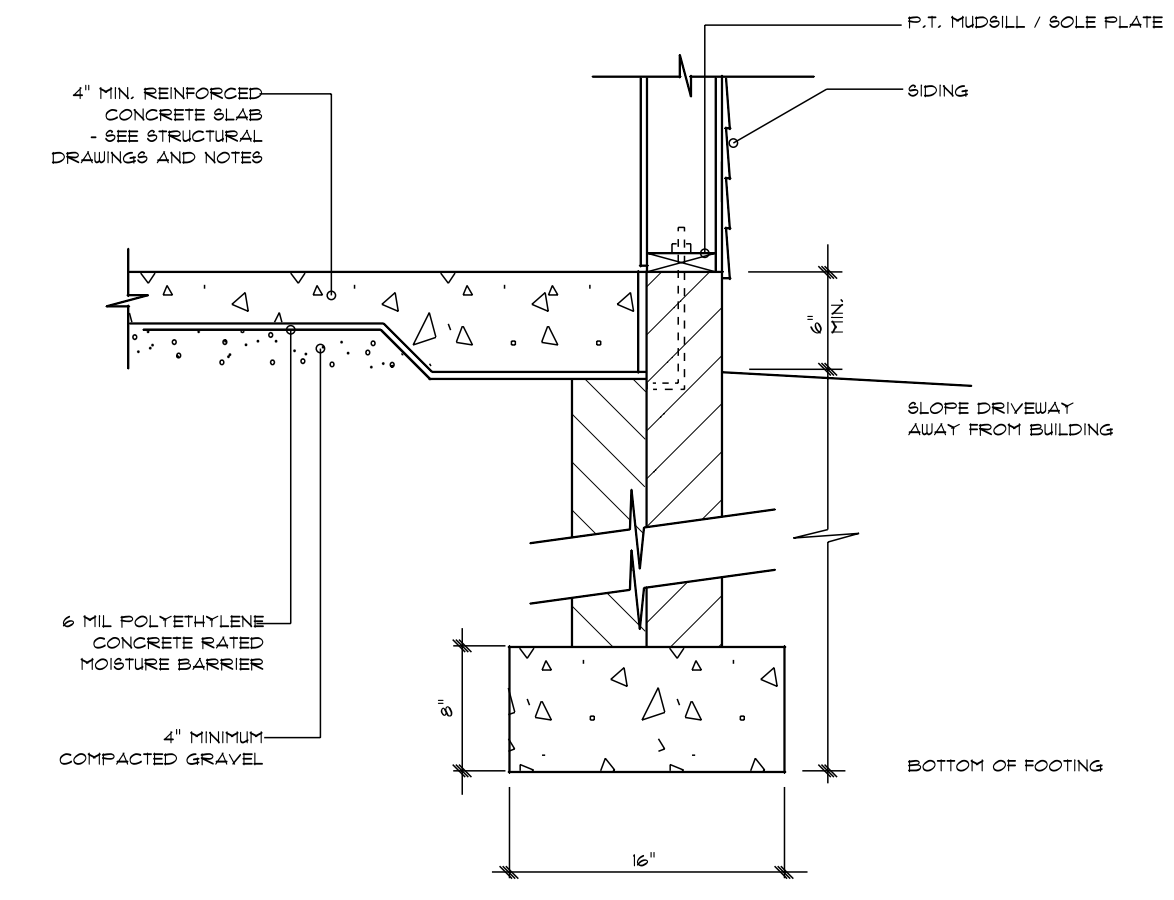
DATE: 8/24/2022
REVISED
DRAWING*

SCALE: 1/4"
DRAWN BY
APPROVED

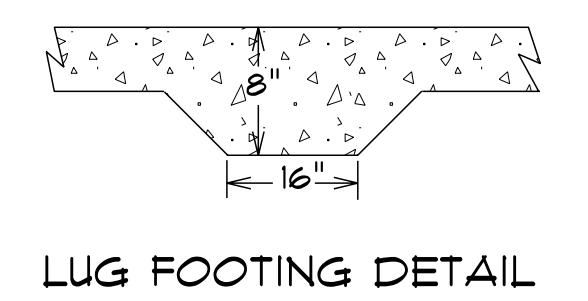
Plan #11



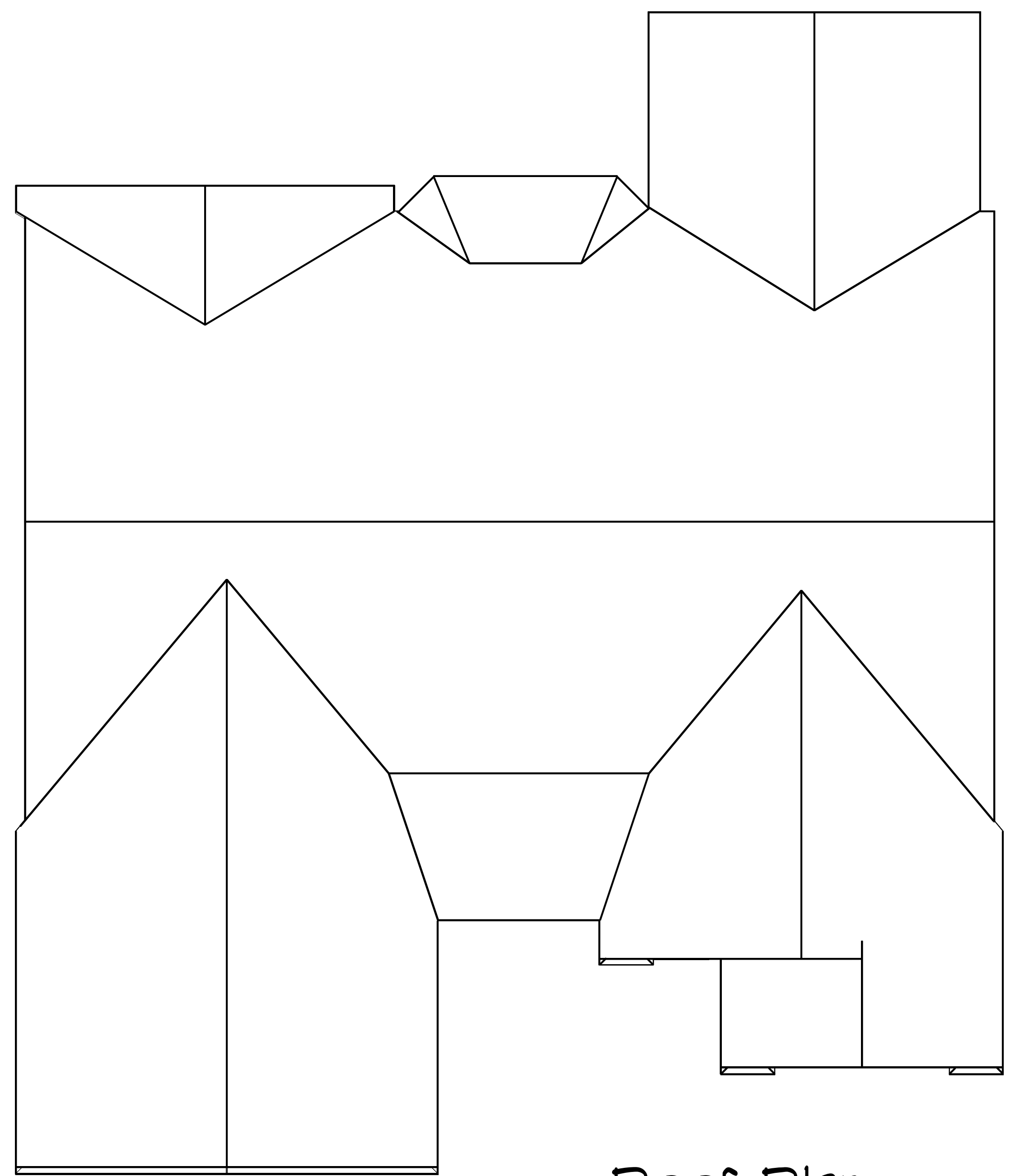
Foundation Plan
Scale: 1/4" = 1'-0"



STEM WALL FOOTING DETAIL



LUG FOOTING DETAIL

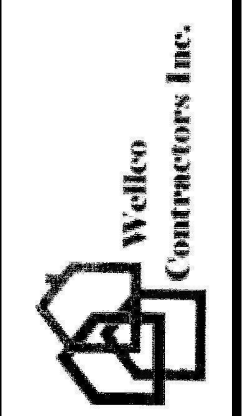


Roof Plan

DATE: 8/24/2022
REVISED
DRAWING*

SCALE: 1/4"
DRAWN BY
APPROVED

Plan #11



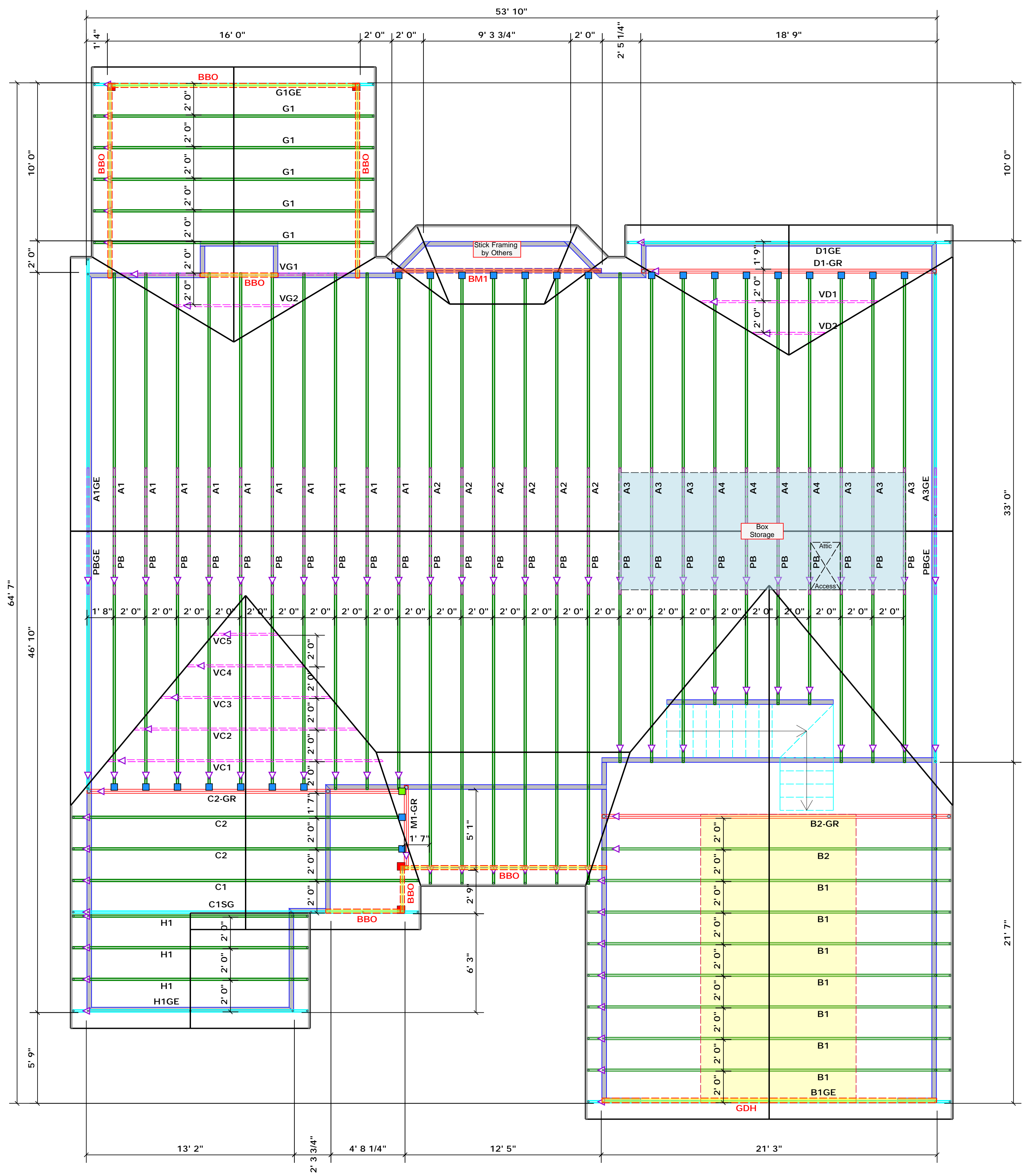


ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. The individual design sheets for each truss design identified on the drawing are the responsibility of the building designer. The building designer is responsible for the structural analysis and design of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding trusses, consult ICC-ES ECR-1001 and ICC-ES provided with the truss delivery package or call 1-800-368-5888.

Signature **David Landry**
David Landry



All Walls Shown Are Considered Load Bearing

Roof Area = 3931.6 sq.ft.
Ridge Line = 143.67 ft.
Hip Line = 11.94 ft.
Horiz. OH = 171.72 ft.
Raked OH = 208.75 ft.
Decking = 135 sheets

Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Hatch Legend

- Box Storage
- Drop Beam
- Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
■	HUS26	USP	25	NA	16d/3-1/2"	16d/3-1/2"
■	THD26-2	USP	1	NA	16d/3-1/2"	10d/3"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	14' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2
GDH	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

CITY / CO.	Spring Lake / Harnett
ADDRESS	Roof
MODEL	09/12/22
DATE REV.	Jonathan Landry
DRAWN BY	Lenny Norris
SALES REP.	

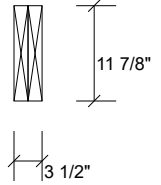
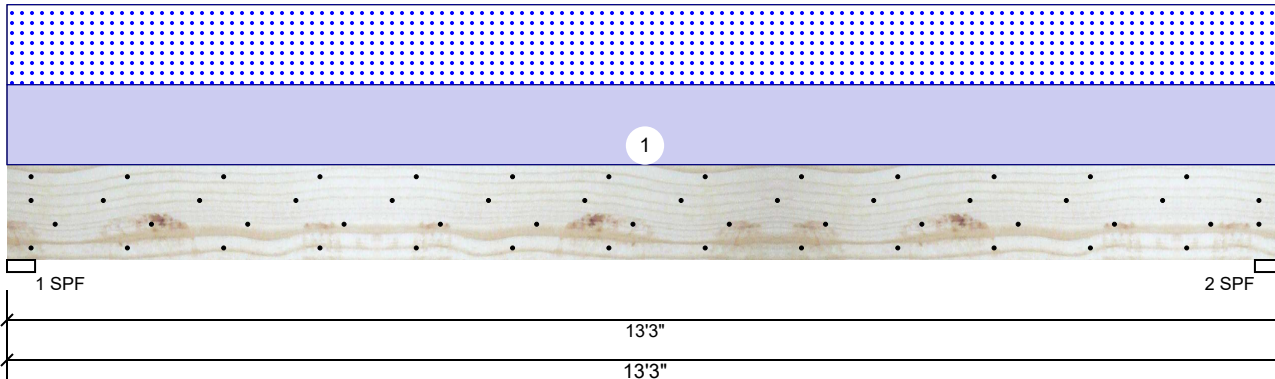
BUILDER	Wellco Contractors
JOB NAME	Lot 150 Hidden Lakes
PLAN	Plan 11
SEAL DATE	N/A
QUOTE #	
JOB #	J0922-4576

LOAD CHART FOR JACK STUDS			
BASED ON TABLES 502.2.5.1 & 5.1			
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/BEAMS			
REQ'D BY STUDS @ 12" ON CENTER	REQ'D BY STUDS @ 18" ON CENTER	REQ'D BY STUDS @ 24" ON CENTER	REQ'D BY STUDS @ 30" ON CENTER
1700 1	2550 1	3400 1	
3400 2	5100 2	6800 2	
5100 3	7650 3	10200 3	
6800 4	10200 4	13600 4	
8500 5	12750 5	17000 5	
10200 6	15300 6		
11900 7			
13600 8			
15300 9			

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

BM1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2466	2405	0	0
2	Vertical	0	2466	2405	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	94%	2466 / 2405	4871	L	D+S
2 - SPF	3.500"	Vert	94%	2466 / 2405	4871	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15038 ft-lb	6'7 1/2"	22897 ft-lb	0.657 (66%)	D+S	L
Unbraced	15038 ft-lb	6'7 1/2"	15046 ft-lb	0.999 (100%)	D+S	L
Shear	4656 lb	11'11 5/8"	10197 lb	0.457 (46%)	D+S	L
LL Defl inch	0.244 (L/628)	6'7 1/2"	0.320 (L/480)	0.764 (76%)	S	L
TL Defl inch	0.495 (L/310)	6'7 1/2"	0.640 (L/240)	0.774 (77%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be laterally braced at a maximum of 5'5 15/16" o.c.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	363 PLF	0 PLF	363 PLF	0 PLF	0 PLF	A2
	Self Weight				9 PLF					

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

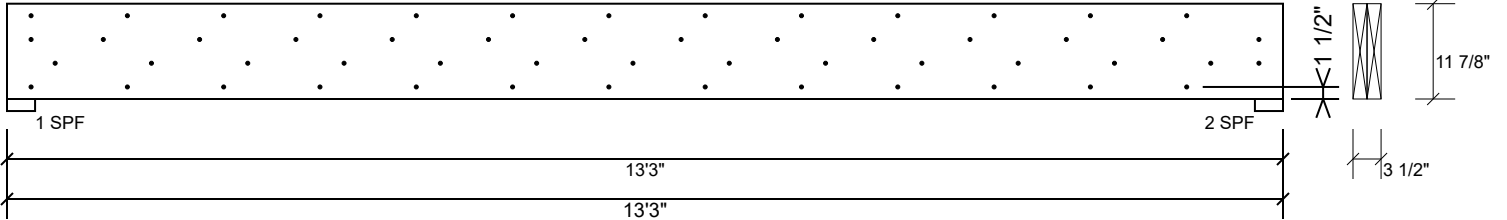
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



BM1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	96.4 %
Load	363.0 PLF
Yield Limit per Foot	376.5 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

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2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

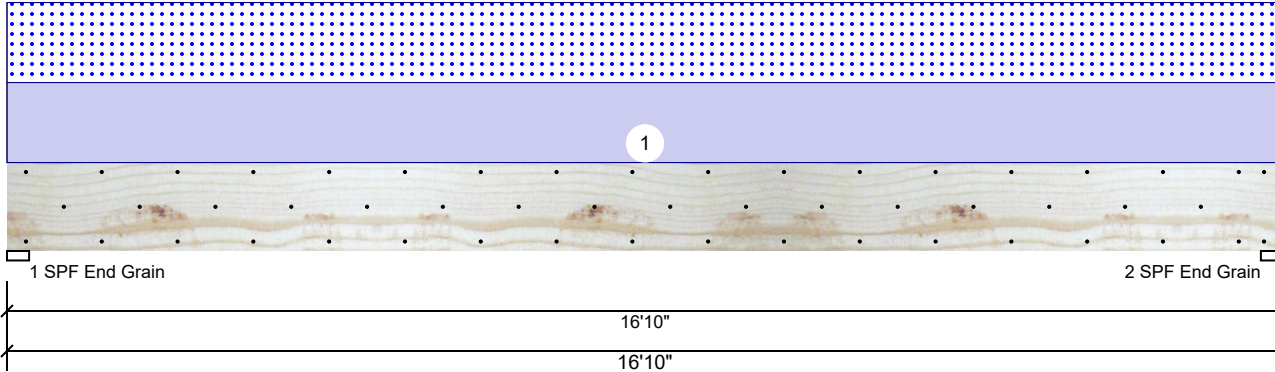
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GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1607	1515	0	0
2	Vertical	0	1607	1515	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	30%	1607 / 1515	3122	L	D+S
2 - SPF End Grain	3.500"	Vert	30%	1607 / 1515	3122	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12431 ft-lb	8'5"	31049 ft-lb	0.400 (40%)	D+S	L
Unbraced	12431 ft-lb	8'5"	12464 ft-lb	0.997 (100%)	D+S	L
Shear	2593 lb	15'4 1/2"	12021 lb	0.216 (22%)	D+S	L
LL Defl inch	0.196 (L/1002)	8'5 1/16"	0.409 (L/480)	0.479 (48%)	S	L
TL Defl inch	0.404 (L/486)	8'5 1/16"	0.819 (L/240)	0.494 (49%)	D+S	L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- Refer to last page of calculations for fasteners required for specified loads.
- Girders are designed to be supported on the bottom edge only.
- Top loads must be supported equally by all plies.
- Top must be laterally braced at a maximum of 8'4 3/16" o.c.
- Bottom must be laterally braced at end bearings.
- Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	180 PLF	0 PLF	180 PLF	0 PLF	0 PLF	B1GE
	Self Weight				11 PLF					

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive chemicals

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

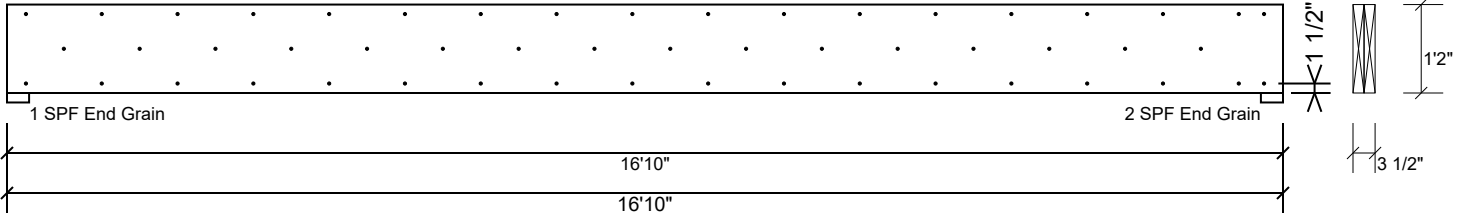
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GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

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chemicals

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