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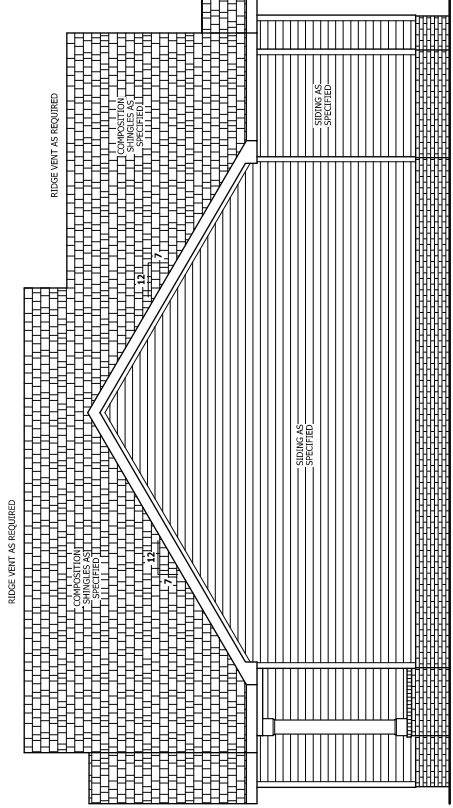
THE BAILEY
SIDE ELEVATIONS

SHB
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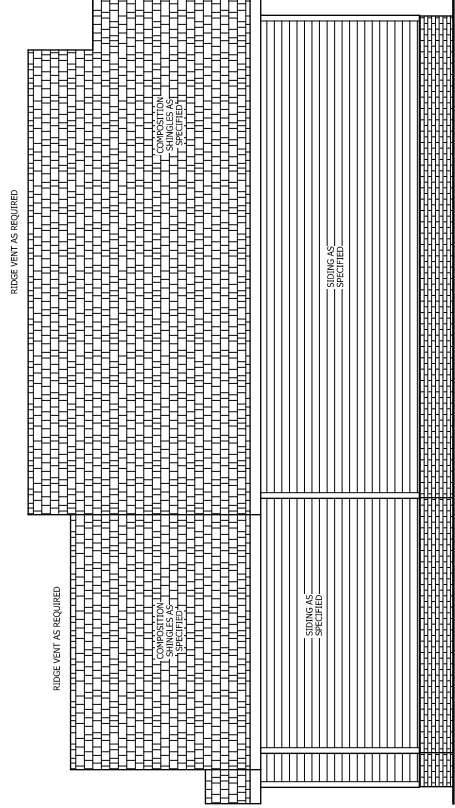
HAYNES
HOME PLANS, INC.
P.O. Box 702, Miles Creek, PA 15106
915-656-6100 FAX 1-866-914-0385

SQUARE FOOTAGE
HEATED 192 SQ. FT.
UNHEATED 218 SQ. FT.
TOTAL FINISH 410 SQ. FT.

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Haynes Home Plans, Inc.
6/26/2019
1906078
PAGE 2 OF 6



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

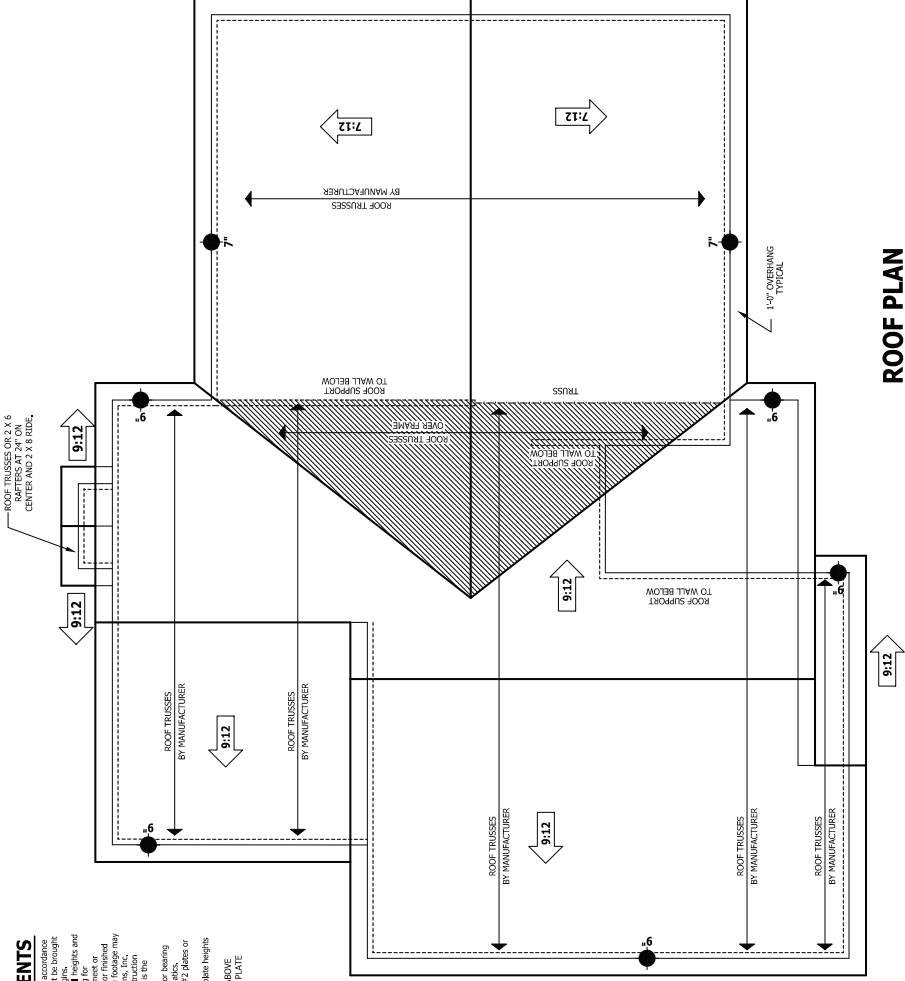


LEFT SIDE ELEVATION
SCALE 1/4" = 1'-0"

TRUSS DESIGN. Trusses to be shown per approved or accordance with these drawings. Any variation with these drawings must be brought to the attention of the Designer. Truss design shall include design of ceiling heights are shown turned down 10' from roof decking for eave overhang. Trusses shall be designed for all loads including excess dead heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary from that shown on these drawings. Truss design shall include attention, so a suitable solution can be reached before construction begins. The Designer shall be responsible for the design and responsibility of the trusses to all other conditions not being met is the responsibility of the truss manufacturer.

ANCHORAGE. All required anchors for trusses due to uplift or bearing shall be shown on these drawings. All trusses shall be designed for bearing on SIPR 22 Joists or 2x6 Joists, unless noted otherwise. See elevation page(s) for plate heights and fiber system truss anchors. See elevation page(s) for plate heights and fiber system truss anchors.

● HEEL HEIGHT ABOVE FIRST FLOOR PLATE
 ● HEEL HEIGHT ABOVE SECOND FLOOR PLATE



ROOF PLAN
SCALE 1/4" = 1'-0"

SQUARE FOOTAGE
 HEATED 132,557'²
 UNHEATED 232,357'²
 TOTAL 364,914'²

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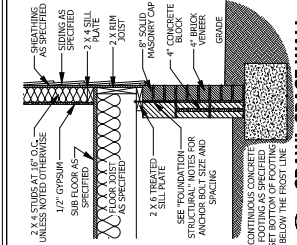
PAGE 5 OF 6

ROOF PLAN
The Bailey

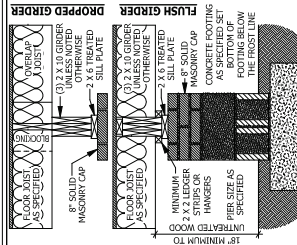
SHB
Signature Home Builders, Inc.

HAYNES
HOME PLANS, INC.
 P.O. Box 702, Miles Creek, PA 15106-0702
 915-456-6100 PA 1-866-914-1986

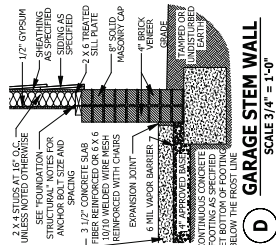
APPROVED FOR CONSTRUCTION PERMITTING
 BEFORE CONSTRUCTION BEGINS.
 THIS DRAWING IS THE PROPERTY OF THE
 DESIGNER. IT IS TO BE USED ONLY FOR THE
 PROJECT AND SITE SPECIFICALLY IDENTIFIED
 HEREON. ANY REUSE OR MODIFICATION
 WITHOUT THE WRITTEN CONSENT OF THE
 DESIGNER IS STRICTLY PROHIBITED.
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 OBTAINING ALL NECESSARY PERMITS AND
 REGULATORY APPROVALS PRIOR TO
 CONSTRUCTION OF THE PROJECT.



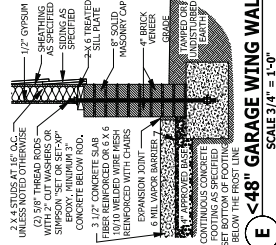
A CRAWL SPACE WALL
SCALE 3/4" = 1'-0"



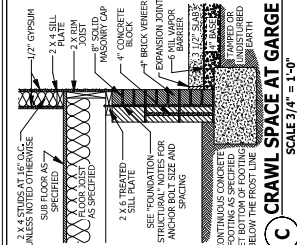
B DROPPED/ FLUSH PIER
SCALE 3/4" = 1'-0"



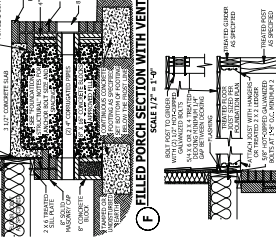
D GARAGE STEM WALL
SCALE 3/4" = 1'-0"



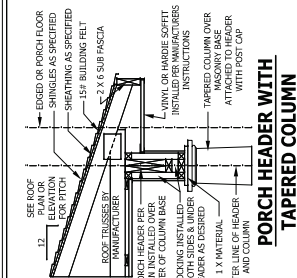
E <48" GARAGE WING WALL
SCALE 3/4" = 1'-0"



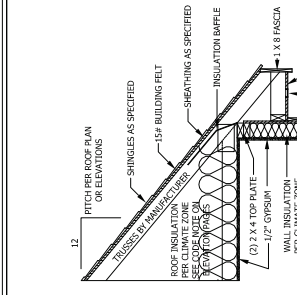
C CRAWL SPACE AT GARGE
SCALE 3/4" = 1'-0"



F FILLED PORCH SECTION WITH VERT.
SCALE 1/2" = 1'-0"



17 PORCH HEADER WITH TAPERED COLUMN
SCALE 3/4" = 1'-0"



12 TYPICAL DETAILS



18 CARBON MONOXIDE ALARMS

DECK STAIR NOTES

SECTION AM10 The maximum depth of the NAILS between stringers shall not exceed that of 6 on each between supports. Spacing between stringers shall be based upon a maximum of 24 inches between stringers and a maximum of 31/2 inches between deck cuts and back of stringer. If used, suspended headers shall be attached with 3/8" support stringers at the top.

DECK BRACING

SECTION AM09 All deck bracing, posts shall be located to provide adequate bracing. Bracing are accurate means to provide bracing stability.

AM09.1.1 When the deck height is less than 4'-0" stringers shall be no smaller than 7/8" each between supports. Spacing between stringers shall be based upon a maximum of 24 inches between stringers and a maximum of 31/2 inches between deck cuts and back of stringer. If used, suspended headers shall be attached with 3/8" support stringers at the top.

AM09.1.2 A 4" x 4" wood knee brace may be provided on each column in both directions. The knee braces shall be attached to the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. The brace shall be attached to the post and the brace shall be attached to the post in accordance with Figure AM09.2.

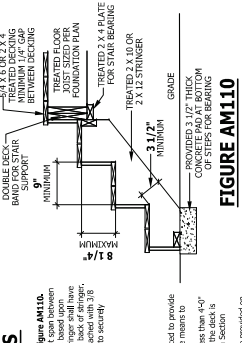
AM09.1.3 For restraining decks without knee braces or bracing, the deck shall be braced at both ends of the grade/rouble band with one 2x8 such that draped.

AM09.1.4 For restraining decks without knee braces or bracing, the deck shall be braced at both ends of the grade/rouble band with one 2x8 such that draped.

POST SIZE	MIN. POST HEIGHT	MIN. POST WIDTH	MIN. POST DIAMETER
4" X 4"	48" SF	4" X 4"	2 1/4"
4" X 4"	48" SF	4" X 4"	2 1/4"

AM09.1.5 A 2 x 6 spaced vertical cross bracing may be provided in two perpendicular directions for decks with a maximum height of 4'-0". The 2 x 6's shall be attached to the posts with one 5/8" nut and one 5/8" washer. The 2 x 6's shall be attached to the posts with one 5/8" nut and one 5/8" washer. The 2 x 6's shall be attached to the posts with one 5/8" nut and one 5/8" washer. The 2 x 6's shall be attached to the posts with one 5/8" nut and one 5/8" washer.

AM09.1.6 For bracing of decks in Coastal Regions, see Chapter 6.



G DECK ATTACHMENT
SCALE 1/2" = 1'-0"

SMOKE ALARMS

SECTION R214 Smoke detection and notification, all smoke alarms shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Fire Alarm Code.

R214.1 Smoke detection and notification, all smoke alarms shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Fire Alarm Code.

R214.2 Smoke detection and notification, all smoke alarms shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Fire Alarm Code.

R214.3 Smoke detection and notification, all smoke alarms shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Fire Alarm Code.

R214.4 Smoke detection and notification, all smoke alarms shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Fire Alarm Code.

R214.5 Smoke detection and notification, all smoke alarms shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Fire Alarm Code.

STAIRWAY NOTES

R311.2 Handrails. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the finished floor to the lowest obstruction.

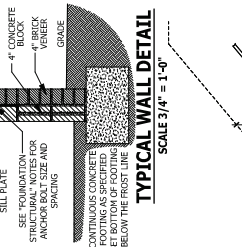
R311.3 Handrails shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Building Code.

R311.4 Handrails shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Building Code.

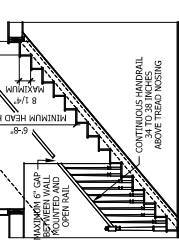
R311.5 Handrails shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Building Code.

R311.6 Handrails shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Building Code.

R311.7 Handrails shall be installed in accordance with the manufacturer's instructions and the provisions of this code and the International Building Code.



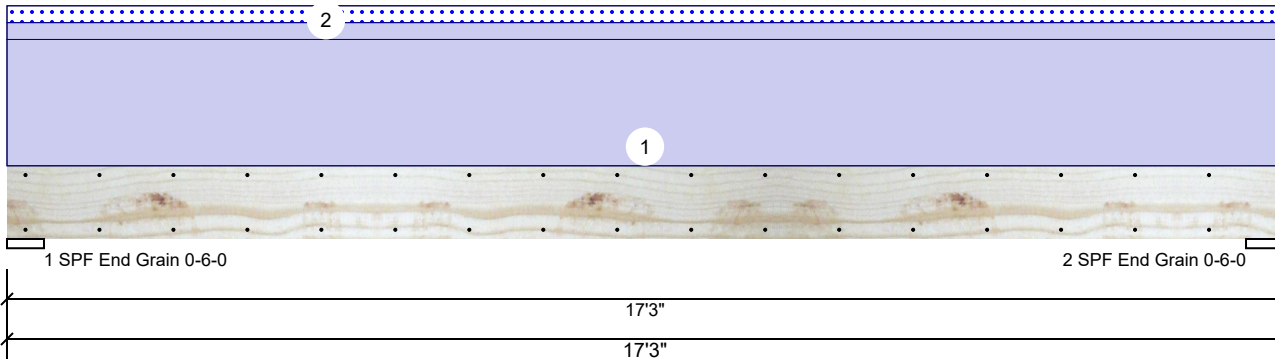
19 TYPICAL WALL DETAIL
SCALE 3/4" = 1'-0"



20 TYPICAL STAIR DETAIL
SCALE 1/4" = 1'-0"

GDH 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 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1546	173	0	0
2	Vertical	0	1546	173	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	6.000"	Vert	10%	1546 / 173	1718	L	D+S
2 - SPF End Grain	6.000"	Vert	10%	1546 / 173	1718	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6008 ft-lb	8'7 1/2"	17919 ft-lb	0.335 (34%)	D	Uniform
Unbraced	6678 ft-lb	8'7 1/2"	6684 ft-lb	0.999 (100%)	D+S	L
Shear	1288 lb	1'5 7/8"	7980 lb	0.161 (16%)	D	Uniform
LL Defl inch	0.035 (L/5617)	8'7 9/16"	0.409 (L/480)	0.085 (9%)	S	L
TL Defl inch	0.348 (L/564)	8'7 9/16"	0.546 (L/360)	0.638 (64%)	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 2 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 14'10 7/16" 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	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Tie-In	0-0-0 to 17-3-0	0-6-0	Top	40 PSF	0 PSF	40 PSF	0 PSF	0 PSF	ROOF
	Self Weight				9 PLF					

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

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

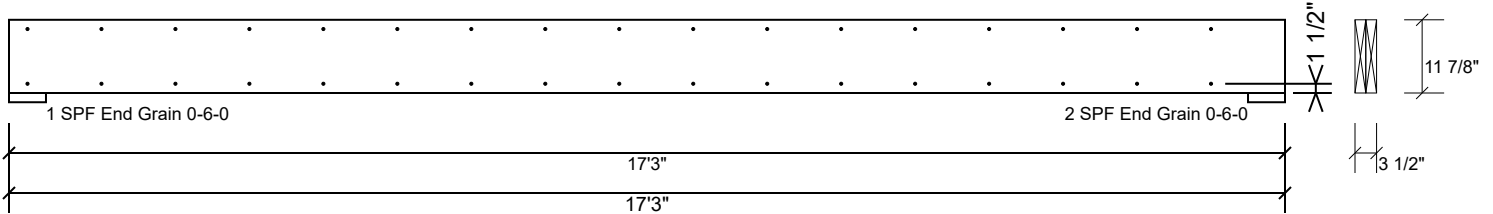
This design is valid until 6/28/2026

Manufacturer Info

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

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

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 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	163.7 PLF
Yield Limit per Fastener	81.9 lb.
C _m	1
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

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
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