THE DIYCRAFT PLAN COLLECTION

20 x 20 ft

Gambrel-Roof Garage

Two vehicle bays | Upper loft | Interior stair



FREE / LOCAL DESIGN REVIEW DRAFT

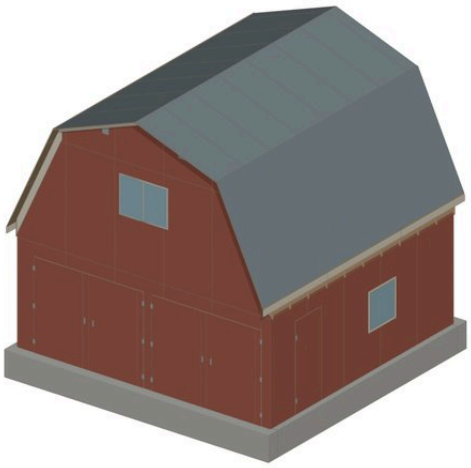
14 A4 pages | 9 selected construction steps

Site, structural, stair and product design remain to be confirmed.

GARA08 / LOCAL REVIEW

Free & Premium Plans

This local preview retains nine source-mapped subjects with the same drawings, dimensions and Premium step numbers. It omits door/window hardware and side windows. Neither edition is structurally approved.



Included	Free	Premium
Overall dimensions / model views	Yes	Yes
Construction steps	9 selected	All 28
Timber, panel and hardware shopping lists	-	Yes
Loft, stairs, roof deck and door details	-	Yes
Roof finish and gable vents	Yes	Yes

Steps: 1, 2, 3, 4, 5, 12, 23, 24, 28. Get the Premium review PDF using the link below.

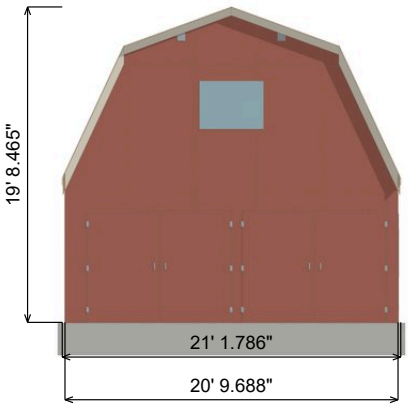
BUY NOW

LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

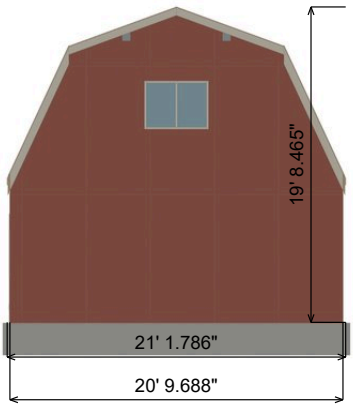
GARA08 / LOCAL REVIEW

Size & Dimensions

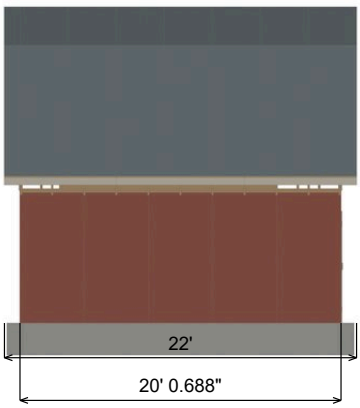
FRONT / COMMON SCALE



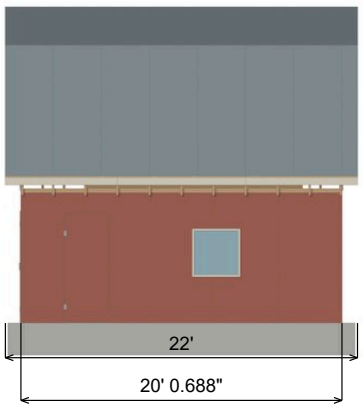
REAR / COMMON SCALE



LEFT / COMMON SCALE



RIGHT / COMMON SCALE



Arrows measure outside roof trim and outside wall skin; heights start at slab top.

Nominal 20 x 20 / fitted frame 249 x 240 in. Roof:65 deg lower /20 deg upper.

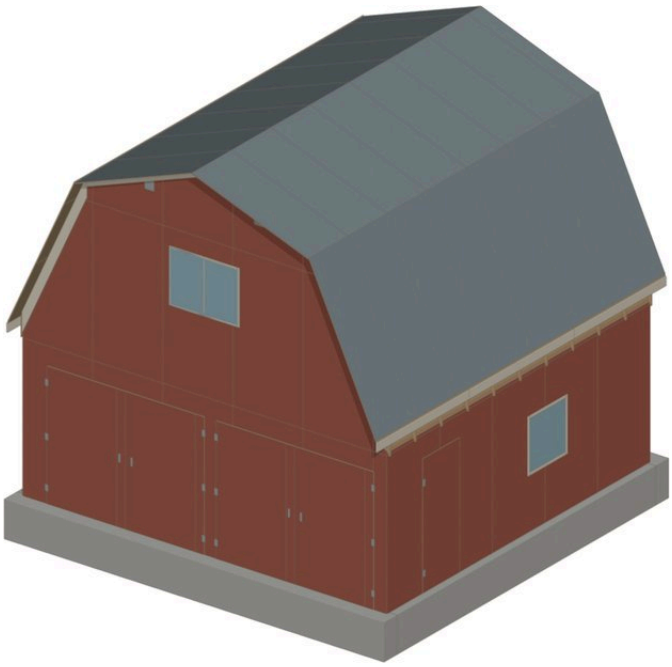
Foundation depth is a schematic source envelope requiring site design.

LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

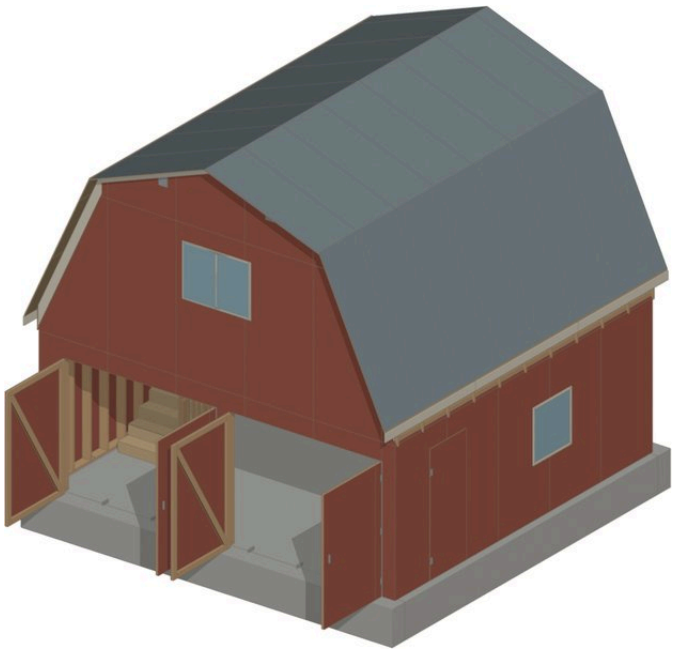
GARA08 / LOCAL REVIEW

Model View

ASSEMBLED / DOORS CLOSED



DOORS OPEN / MOVING HARDWARE CARRIED



Two vehicle bays sit beneath a loft and gambrel roof. The saved model includes the actual stair and opening, three windows, four gable vents and four vehicle-door leaves. The open pose is an illustration; selected hinge/latch products and full-motion clearance need verification. The internal model audit establishes fit only, not structural or code approval.

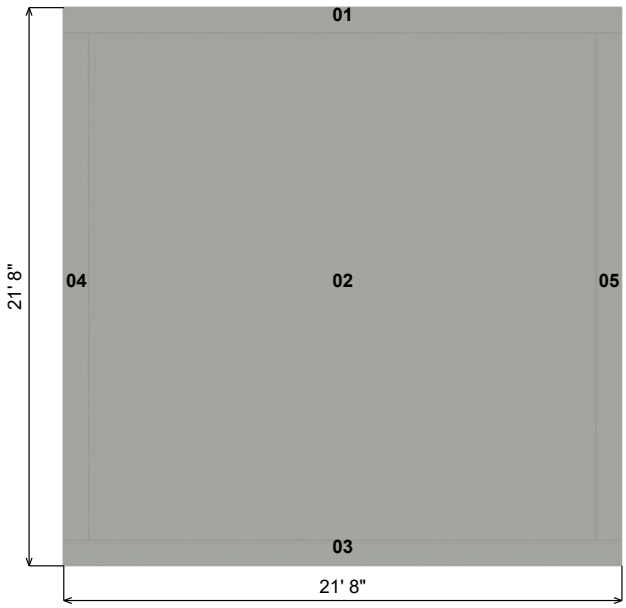
STEP 01 / 28

Prepare the garage foundation

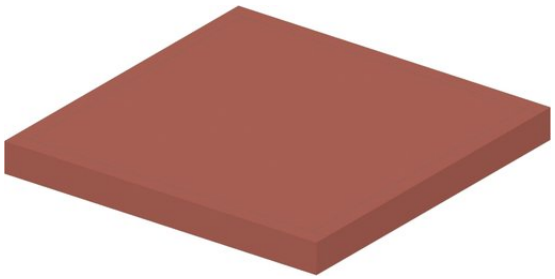
Set out the source garage slab envelope and obtain the site foundation design before excavation.

The garage retains its source concrete concept. The 260 x 260 in envelope contains 12 in perimeter strips to 24 in below slab top and a 6 in centre slab. These are source schematic dimensions, not a frost, soil, reinforcement or vehicle-load design. Source concrete 13.5 cu yd is an allowance; the five measured concrete envelopes give about 13.29 cu yd before site-design changes. Locate services and confirm drainage first.

DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



FRAME DATUM: 249 x240 in / LOFT FLOOR: 110.5 in

Actual sections and measured blanks are tabulated below.

ID / PART	ACTUAL BLANK / IN	QTY
01 FOUNDATION-BK*	12 x 24 x 260	1
02 FOUNDATION-CENTRE*	6 x 236 x 236	1
03 FOUNDATION-FR*	12 x 24 x 260	1
04 FOUNDATION-LT*	12 x 24 x 236	1
05 FOUNDATION-RT*	12 x 24 x 236	1

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

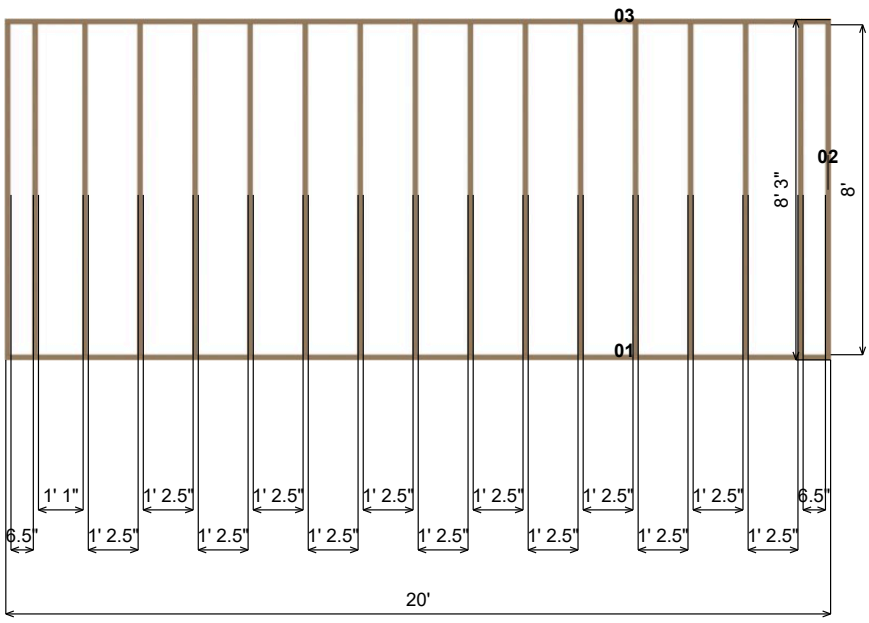
STEP 02 / 28

Frame the left wall

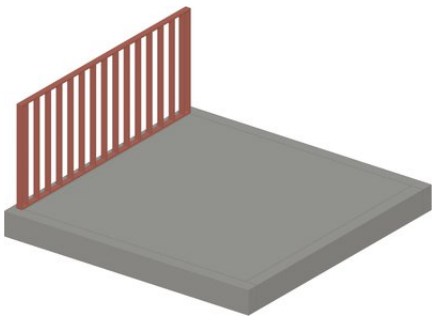
Assemble the left wall on the level slab, then brace it plumb.

All ground-wall studs are actual 1.5 x 5.5 x 96 in. The fitted wall length is 240 in and the first top plate is at 97.5..99 in. The drawing shows actual saved clear bays; the second plate is a separate step. Check the corners and brace before lifting the next frame.

DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



Actual sections and measured blanks are tabulated below.

ID / PART	ACTUAL BLANK / IN	QTY
01 LT-BOT	1.5 x 5.5 x 120	2
02 LT-STUD	1.5 x 5.5 x 96	17
03 LT-TOP	1.5 x 5.5 x 120	2

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

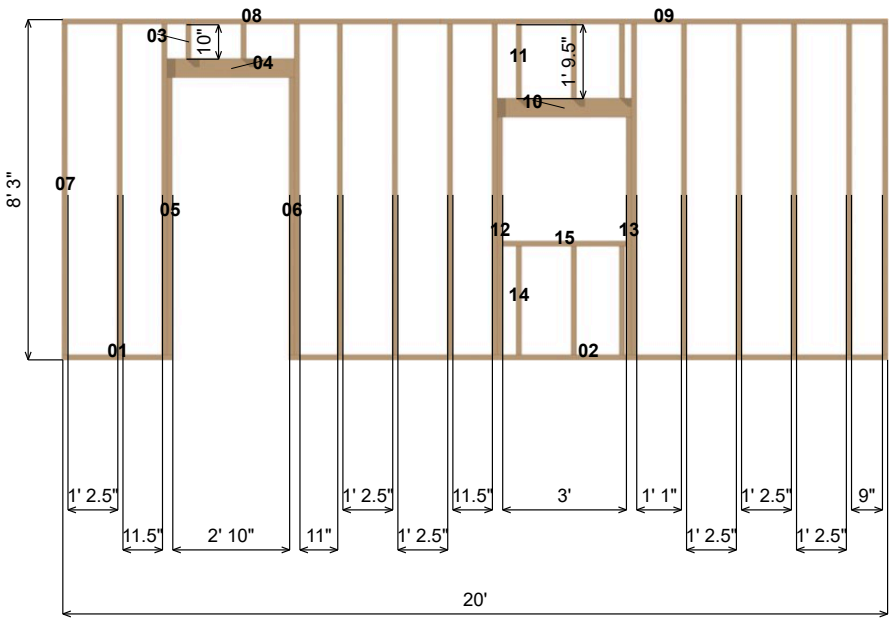
STEP 03 / 28

Frame the right wall

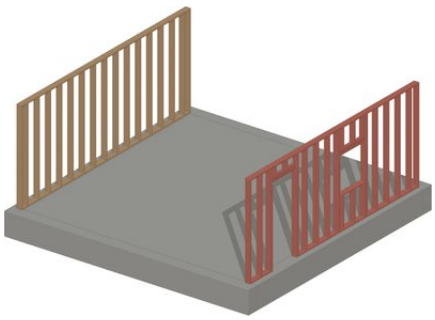
Frame the right wall around the side-door and window rough openings.

Door rough opening: y=32..66, z=0..82 in. Window rough opening: y=128..164, z=34.5..70.5 in. Headers retain two 1.5 x 5.5 in plies; their remaining wall-depth packing and all header, jack and fixing design require review. Do not treat source general screw counts as an engineered connection schedule.

DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



Actual sections and measured blanks are tabulated below.

ID / PART	ACTUAL BLANK / IN	QTY
01 RT-BOT	1.5 x 5.5 x 32	1
02 RT-BOT	1.5 x 5.5 x 174	1
03 RT-DOOR-CRP	1.5 x 5.5 x 10	2
04 RT-DOOR-HDR	1.5 x 5.5 x 37	2
05 RT-DOOR-JACK-L	1.5 x 5.5 x 80.5	1
06 RT-DOOR-JACK-R	1.5 x 5.5 x 80.5	1
07 RT-STUD	1.5 x 5.5 x 96	14
08 RT-TOP	1.5 x 5.5 x 110	1

ID / PART	ACTUAL BLANK / IN	QTY
09 RT-TOP	1.5 x 5.5 x 130	1
10 RT-WIN-HDR	1.5 x 5.5 x 39	2
11 RT-WIN-HIGH	1.5 x 5.5 x 21.5	3
12 RT-WIN-JACK-L	1.5 x 5.5 x 69	1
13 RT-WIN-JACK-R	1.5 x 5.5 x 69	1
14 RT-WIN-LOW	1.5 x 5.5 x 31.5	3
15 RT-WIN-SILL	1.5 x 5.5 x 36	1

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

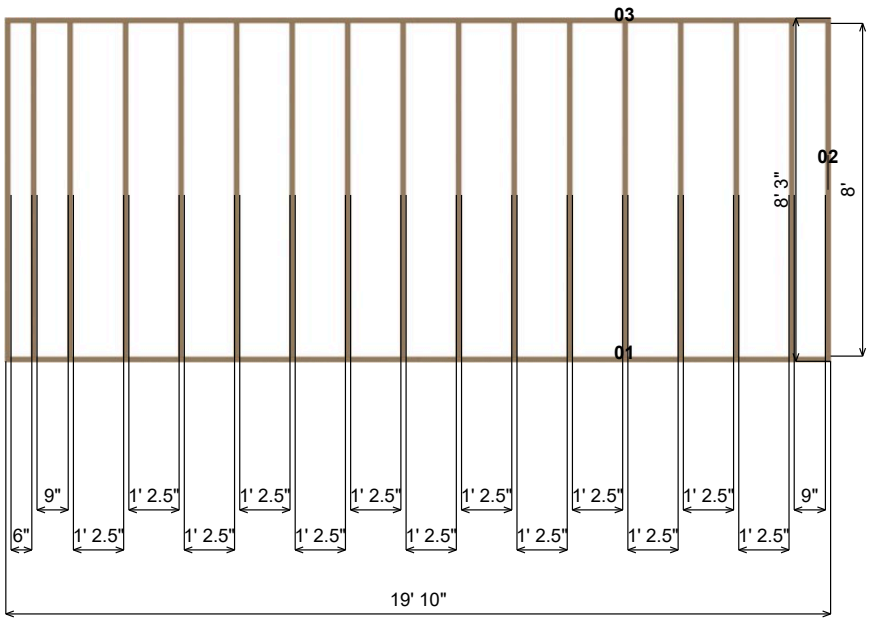
STEP 04 / 28

Frame the rear wall

Assemble the rear wall and tie its corners into the side frames.

The rear wall fits between the two 5.5 in side walls: x=5.5..243.5, a 238 in length. Studs share the 1.5..97.5 in datum. The footprint is 249 x 240 in; this reconciles the source 238 in end wall and long LVL dimensions rather than forcing a 240 in outside width.

DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



Actual sections and measured blanks are tabulated below.

ID / PART	ACTUAL BLANK / IN	QTY
01 BK-BOT	1.5 x 5.5 x 119	2
02 BK-STUD	1.5 x 5.5 x 96	17
03 BK-TOP	1.5 x 5.5 x 119	2

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

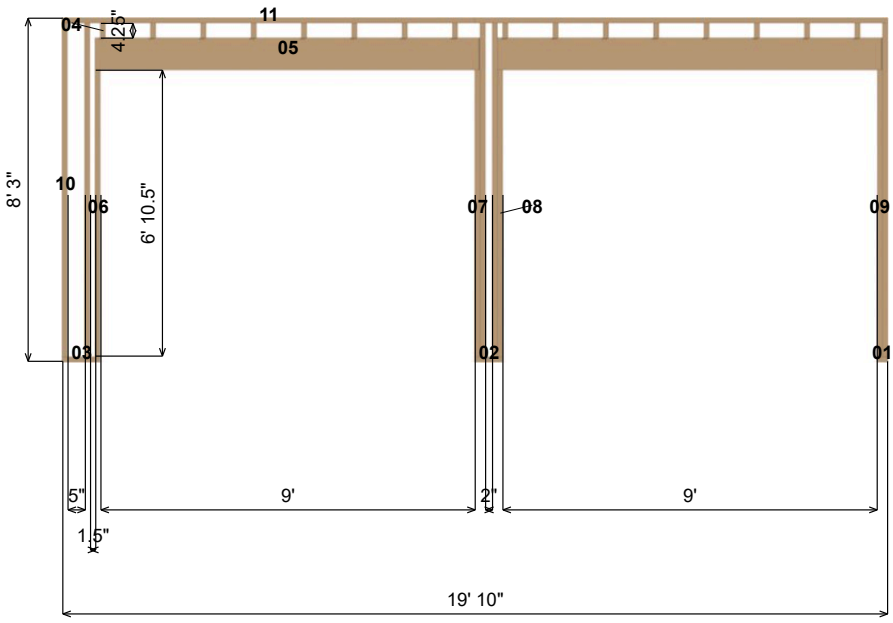
STEP 05 / 28

Frame the two-bay front wall

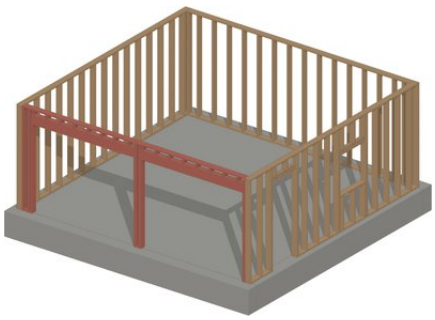
Assemble the front wall around two 108 x 84 in clear vehicle openings.

Clear openings are x=16.5..124.5 and 132.5..240.5 in. Header envelopes are 111 in long, with three actual 1.5 x 9.25 in plies. Source 4.25 in cripples occupy 93.25..97.5 in. Header capacity, ply fixing, bearing, narrow-pier restraint and the central load path remain engineering items.

DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



Actual sections and measured blanks are tabulated below.

ID / PART	ACTUAL BLANK / IN	QTY
01 FR-BOT	1.5 x 3 x 5.5	1
02 FR-BOT	1.5 x 5.5 x 8	1
03 FR-BOT	1.5 x 5.5 x 11	1
04 FR-CRP	1.5 x 4.25 x 5.5	16
05 FR-HDR	1.5 x 9.25 x 111	6
06 FR-JACK-0-L	1.5 x 5.5 x 82.5	1
07 FR-JACK-0-R	1.5 x 5.5 x 82.5	1
08 FR-JACK-1-L	1.5 x 5.5 x 82.5	1
09 FR-JACK-1-R	1.5 x 5.5 x 82.5	1
10 FR-KING	1.5 x 5.5 x 96	5
11 FR-TOP	1.5 x 5.5 x 119	2

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

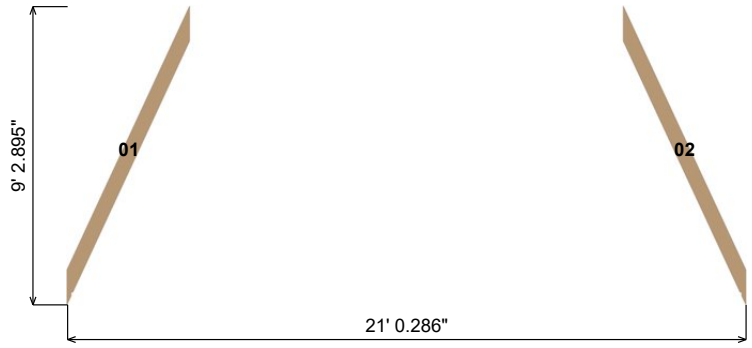
STEP 12 / 28

Fit the lower roof rafters

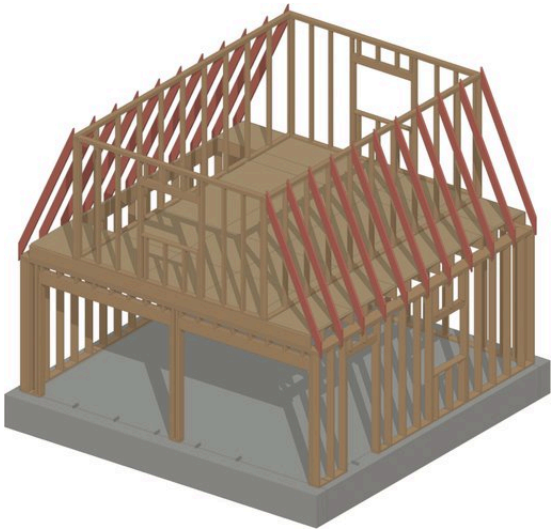
Fit eleven mirrored pairs of lower rafters to the actual lower-wall bearings.

Lower roof pitch is 65 degrees. Each upper edge is 108 in long; all eleven left profiles are identical and mirrored on the right. The small triangular seat is fitted to the lower plate at 100.5 in. The enlarged actual cut is shown below. Obtain notch, heel, restraint and connector approval before cutting; geometry does not prove rafter capacity.

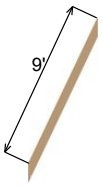
DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



ACTUAL SAVED CUT / SCHEMATIC ITEMS REQUIRE DESIGN REVIEW



BEARING / ACTUAL SECTION



ID / PART	ACTUAL BLANK / IN	QTY
01 RAFTER-LOW-LT	1.5 x 5.5 x 119.795	11
02 RAFTER-LOW-RT	1.5 x 5.5 x 119.795	11

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

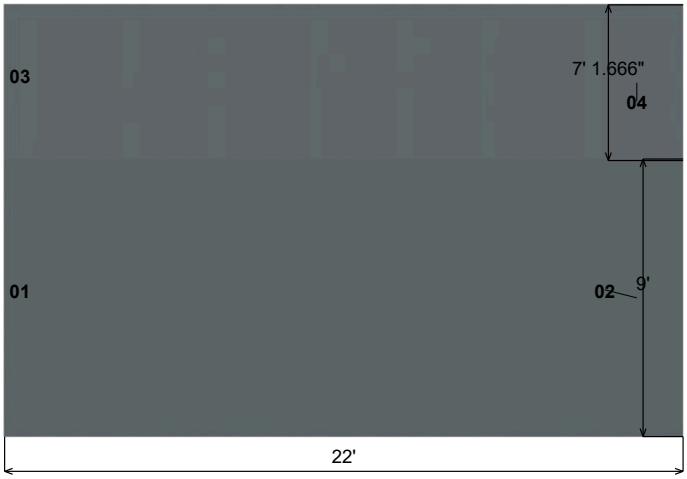
STEP 23 / 28

Fit metal roofing and flashings

Install the selected metal roof, underlayment, ridge, gambrel and edge flashings.

The four schematic planes show net coverage only. Source 760 sq ft metal and felt allowances,90 ft eaves,90 ft gambrel flashing,68 ft rake and 45 ft ridge cap are retained as unverified source allowances, not final orders. Supplier panel lengths, laps, pitch transitions, closures, ventilation, fixings and drainage control the installation. No waterproofing or capacity claim is made.

DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



Cut sizes below are measured blank envelopes; retain the saved clipped profiles.

ID / PART	ENVELOPE / IN	QTY
01 METAL-MIRROR*	0.013 x 12 x 108.027	2
02 METAL-MIRROR*	0.013 x 36 x 108.027	14
03 METAL-MIRROR*	0.028 x 12 x 85.677	2
04 METAL-MIRROR*	0.028 x 36 x 85.677	14

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

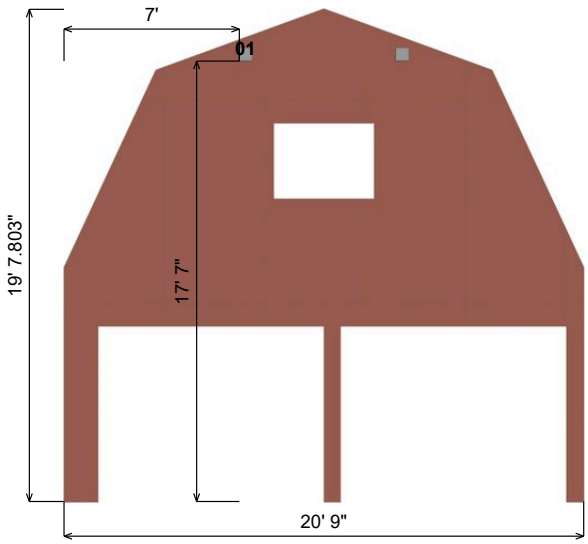
STEP 24 / 28

Install the gable vents

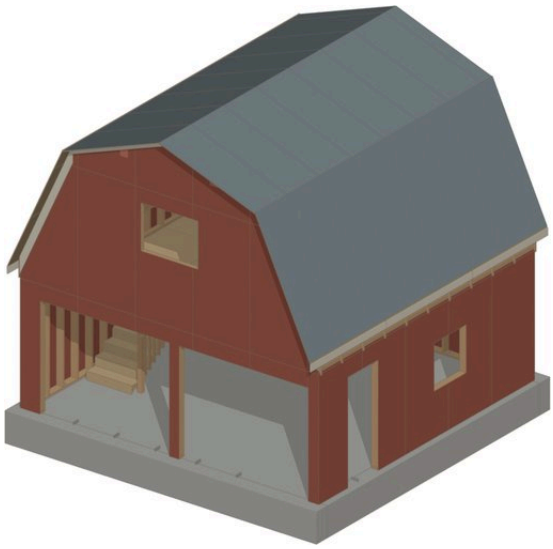
Fit the four purchased gable-vent envelopes to the selected weatherproof details.

Four 6 x 6 in source vent envelopes sit against the front/rear gable skins. The actual opening, net free area, location, screen, backing, flashing and weather-rated product remain to be selected. Do not cut a structural member to suit a generic vent. The alternative AppendixA ducted insulation arrangement is excluded from this base edition. Model vent envelopes start 211 in above slab at x=84..90 and 159..165 in; selected products control final rough openings.

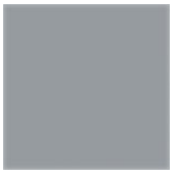
DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



ACTUAL SAVED CUT / SCHEMATIC ITEMS REQUIRE DESIGN REVIEW



ID / PART	ENVELOPE / IN	QTY
01 VENT-GABLE*	0.5 x 6 x 6	4

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

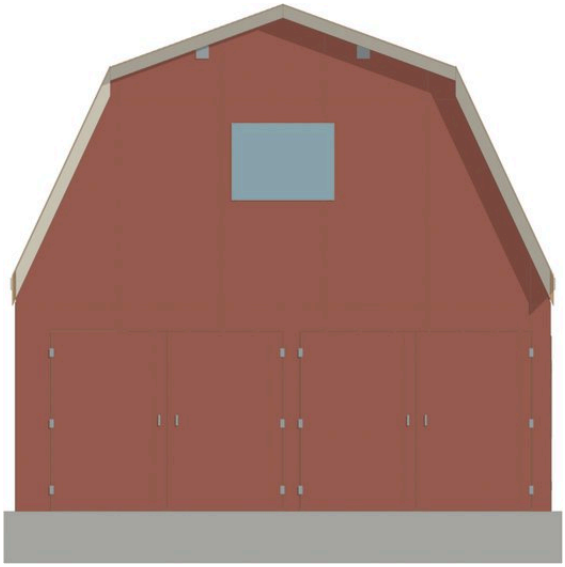
STEP 28 / 28

Finish and inspect the garage

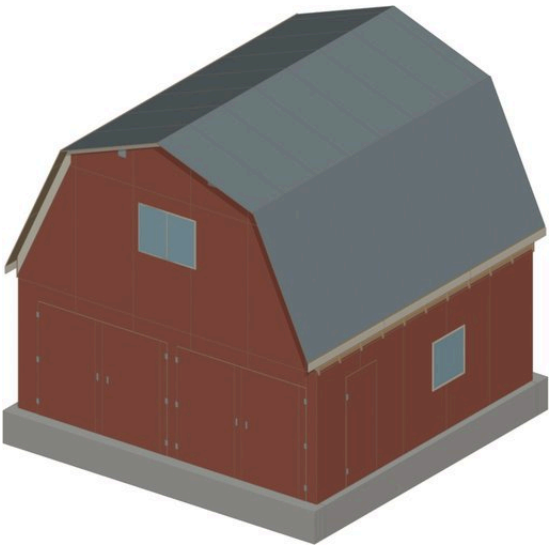
Complete the selected finish and inspect all permanent supports and weather details.

Seal cut ends and use the selected compatible exterior timber finish. Before use, resolve foundations, headers/LVL, roof system, permanent restraint, connectors, stair headroom/landings/guards, window/door products and weather details. This local review is complete as an illustrated draft, not an approved permit, construction or purchasing set.

DETAILED 2D / NATURAL MATERIALS



ASSEMBLY / NEW PARTS RED



Actual sections and measured blanks are tabulated below.

ID / PART	ACTUAL BLANK / IN	QTY

FINISH-ONLY STEP / no new cut parts.

*Schematic product/stair/guard envelopes: not fabrication or supplier order dimensions.
LOCAL DESIGN REVIEW DRAFT / owner acceptance pending

GARA08 / LOCAL REVIEW

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