

Rabbit Hutch Version 1

Builder Package

An elevated, open-sided structure for three removable rabbit cages, with a clear rear weather enclosure and a single-slope metal roof.

Document status: Canonical Builder Package produced from the owner-approved RH-AB drawing set. The drawings are schematic and not to scale.

About this project: Published as an example of an AI-assisted design and documentation workflow and as a source of ideas, not as a perfect, complete, or universally applicable construction plan. Verify dimensions, materials, structural requirements, site conditions, animal safety, and local requirements for your own build.

Project Summary

Configuration	Three removable cages on an elevated support frame; front and short sides open; clear rear weather enclosure
Overall frame dimensions	Cage-support frame: 114 × 33 in outside; bottom 32 in above grade (MEASURED AS-BUILT)
Roof type	Single-slope metal roof over eight direct-bearing joists and three longitudinal 1x4 purlins
Primary materials	Nominal 2x6 vertical supports, nominal 2x3 cage supports, 2x4 roof-bearing lines, 1x4 purlins and enclosure backing, metal roofing, and clear corrugated rear panel
Version	Completed Version 1; enclosed ramps and partially buried nesting totes excluded
Documentation status	Owner-approved RH-AB drawing set with measured, photo-observed, owner-reported, and explicitly unverified information

This package assumes the reader can measure and cut common framing lumber, drill pilot holes, drive structural screws, and assemble basic wood framing. Field-fit undocumented cuts and connections; do not scale the drawings.

Evidence Labels

MEASURED AS-BUILT Physically measured from completed Version 1.	PHOTO-OBSERVED Clearly visible in approved completion photographs.	OWNER-REPORTED Explicitly confirmed by the owner.	UNVERIFIED Not established well enough to publish as an as-built quantity or specification.
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RH-AB-001 - Configuration Overview

Orients the builder to the completed configuration, cage system, support frame, open sides, rear enclosure, and roof.

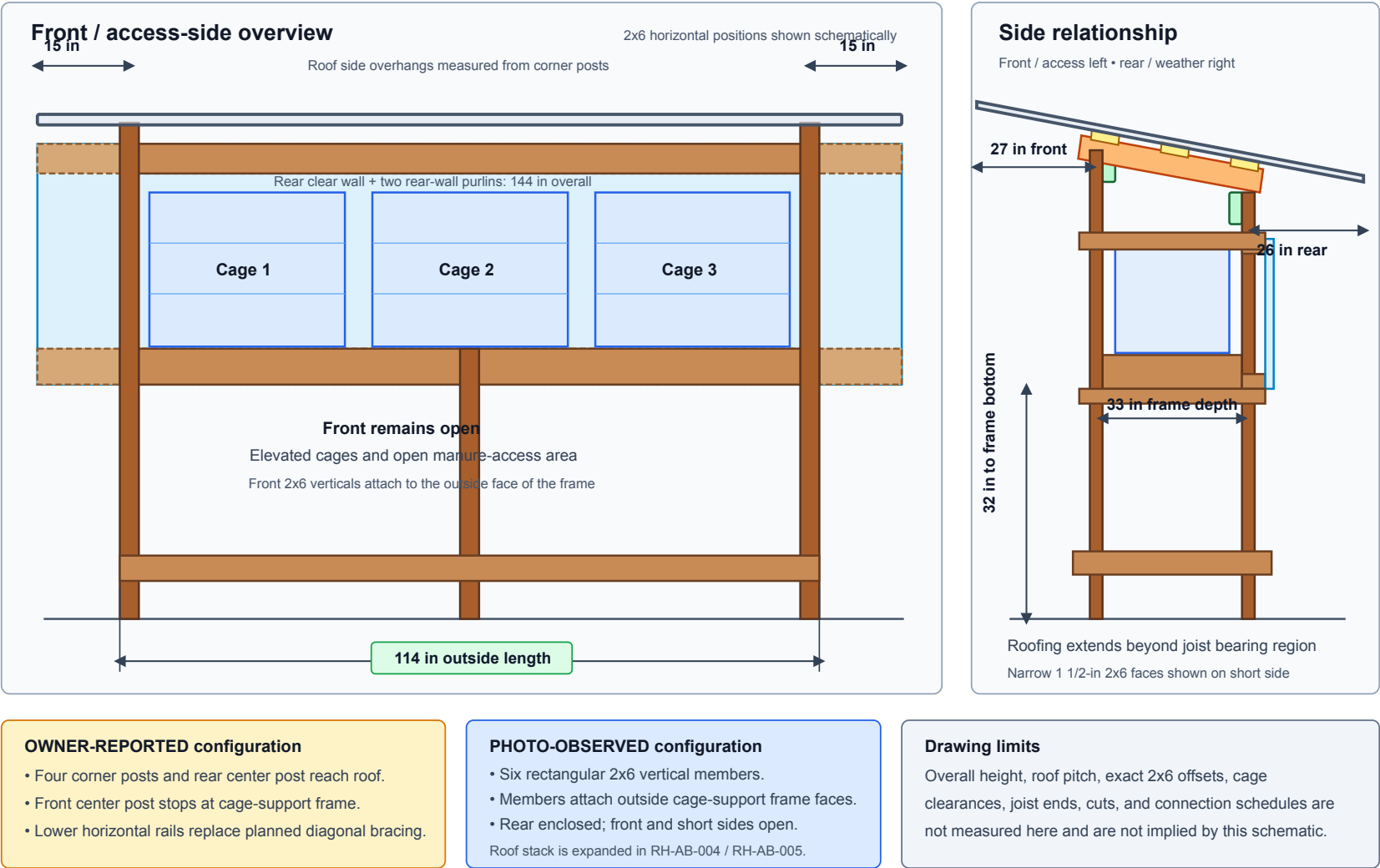
RH-AB-001 Version 1 As-Built

Orthographic overview • schematic — not to scale • verified dimensions only

MEASURED AS-BUILT

PHOTO-OBSERVED

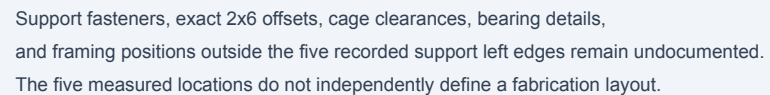
OWNER-REPORTED



Locates the measured cage-support footprint, five interior 2x3 supports, and six outside 2x6 supports.

Cage-support / 2x6 vertical layout • schematic — not to scale • measured left-edge datum

PHOTO-OBSERVED



3

RH-AB-003 - Front And Rear Elevations

Compares the open front/access side with the clear rear/weather enclosure and lower-rail relationships.

RH-AB-003 Version 1 As-Built

Combined elevations • schematic — not to scale • 2x6 vertical and enclosure relationships emphasized

MEASURED AS-BUILT

PHOTO-OBSERVED

OWNER-REPORTED

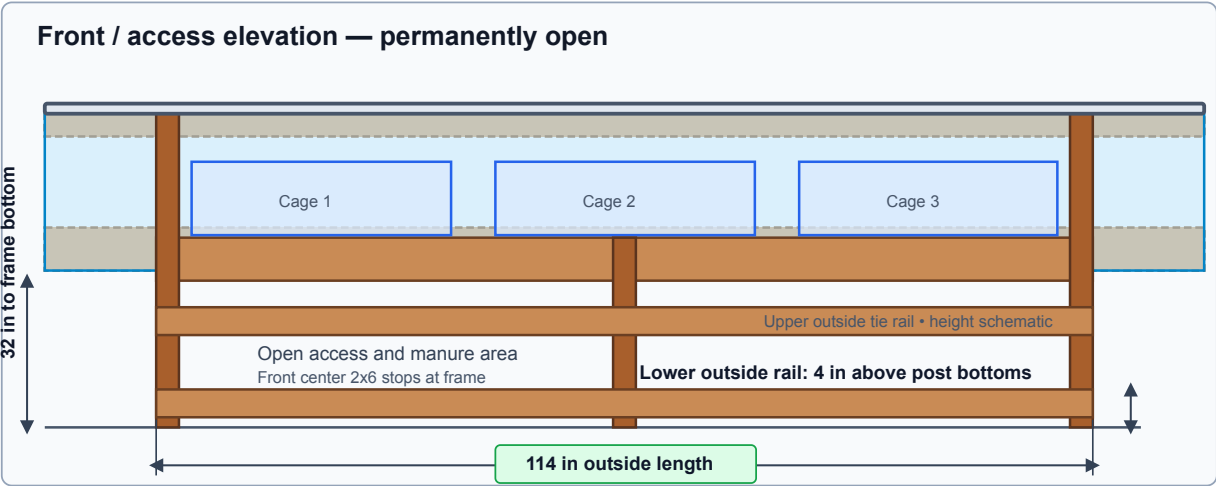


PHOTO-OBSERVED verticals

Front:

- Corner 2x6 verticals reach roof.
- Center 2x6 ends at frame.

Rear:

- Corner and center 2x6s reach roof.

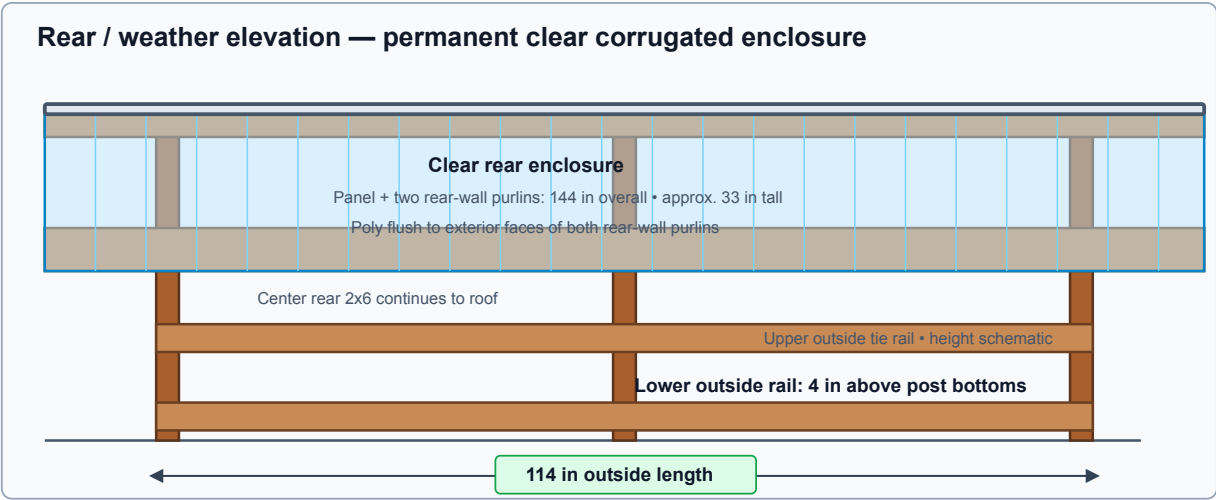
All six attach outside frame faces.

Enclosure boundary

Permanent clear corrugated enclosure is exterior to the rear framing only.

Panel is flush to the exterior faces of both 144-in purlins; width matches roof.

Shown behind the open front above; front and short sides remain open.



Drawing limits

Overall height and roof pitch are not measured and are not dimensioned.

2x6 offsets; rear panel cuts, overlaps, unmeasured vertical details, and fastener schedule remain undocumented.

Two outside tie rails provide the documented Version 1 rigidity arrangement.

Upper rail height is shown schematically.

Evidence source: docs/as-built/as-built-evidence.md and photo-observation-register.md • roof side overhangs: 15 in from corner posts

RH-AB-004 - Side Elevation And Roof Relationship

Shows frame depth and elevation, roof bearing stack, front and rear overhangs, and exterior short-side rails.

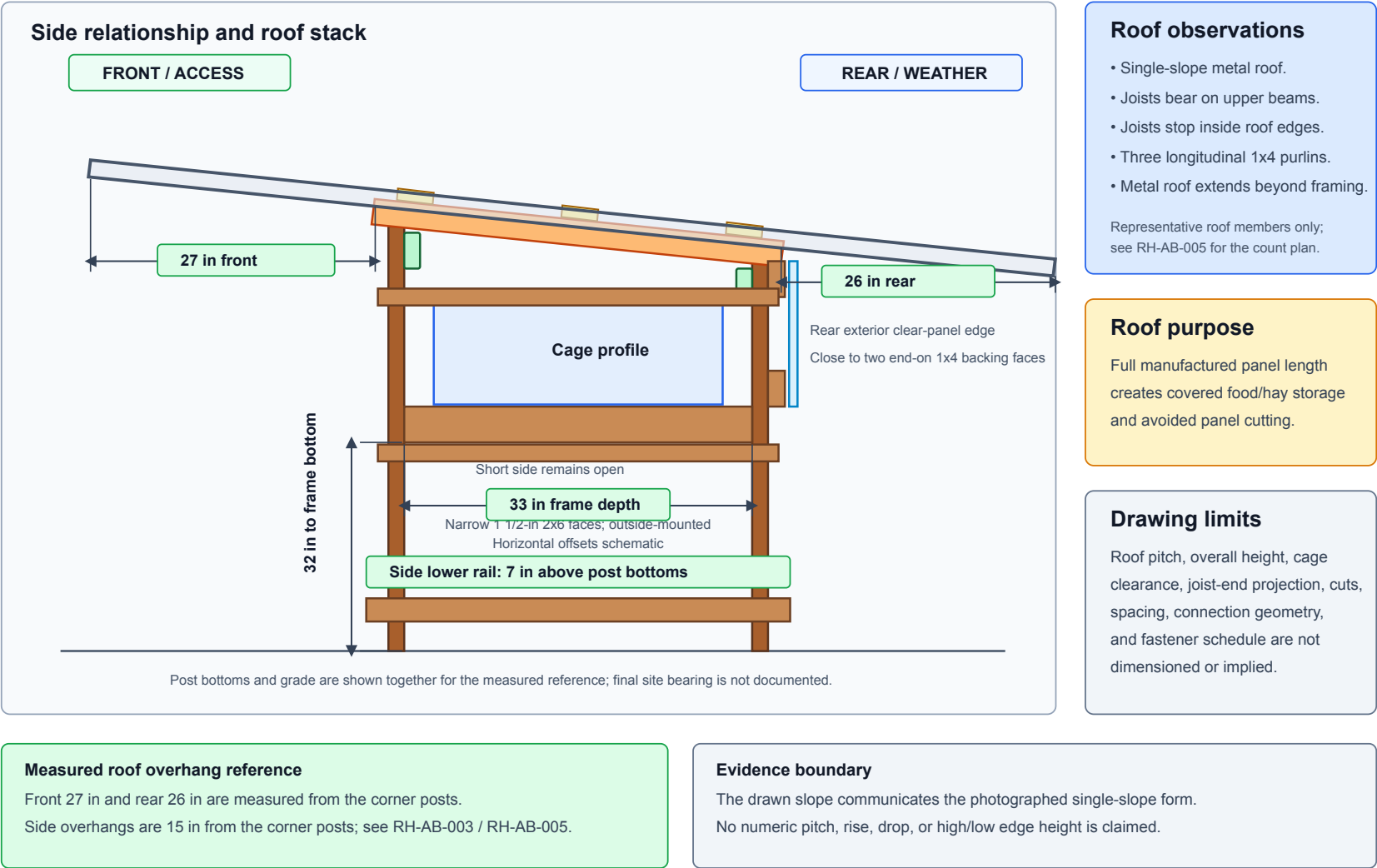
RH-AB-004 Version 1 As-Built

Side elevation • front / access left • rear / weather right • schematic — not to scale

MEASURED AS-BUILT

PHOTO-OBSERVED

OWNER-REPORTED



Evidence source: docs/as-built/as-built-evidence.md and photo-observation-register.md • schematic member geometry is for orientation only

RH-AB-005 - Roof-Framing Plan

Shows eight roof joists, three perpendicular purlins, support footprints, and roofing overhang.

RH-AB-005 Version 1 As-Built

Top-down roof plan • schematic member spacing — counts and measured overhangs are authoritative

MEASURED AS-BUILT

PHOTO-OBSERVED

OWNER-REPORTED

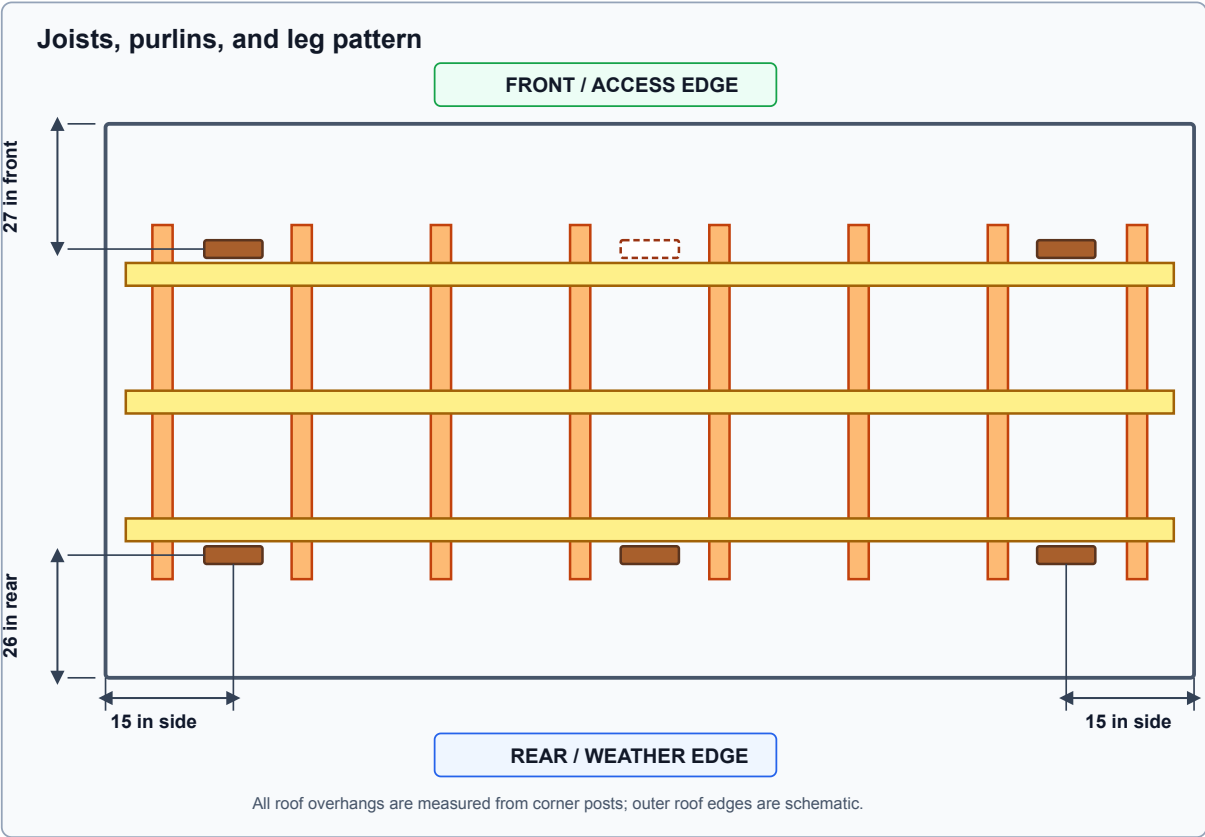


PHOTO-OBSERVED roof

- Eight front-to-rear roof joists
 - Three left-to-right 1x4 purlins
 - Metal roofing above the purlins
 - Upper beams omitted from this plan
- Joists use direct bearing and visible framing uses structural screws.
- See RH-AB-004 for the omitted beam relationship.

2x6 vertical-member pattern

Rectangular footprints sit outside the cage-support rails; five reach roof level.

Dashed front-center symbol ends below roof.

Drawing limits

Joist ends/spacing, purlin spacing, cuts, structural-screw lengths/schedule, roof panel count/layout, overlaps, rib alignment, and edge treatment remain undocumented.

Measured overhangs from corner posts

Front: 27 in • Rear: 26 in

Left and right sides: 15 in each

Roof total dimensions are not separately claimed.

Schematic-spacing notice

The eight joists and three purlins are evenly distributed for readability only.

Do not scale this drawing or derive centerlines, cuts, screw counts, or panel geometry from it.

Metal roofing outline represents the completed covering, not individual panel seams.

Evidence source: docs/as-built/as-built-evidence.md and photo-observation-register.md • Version 1 roof execution

Materials

Quantities below are supported material or component counts, not a complete actual-used bill of materials.

Lumber

Material or member	Practical quantity	Evidence	Builder use and limitation
Nominal 2x6 vertical supports	6	OWNER-REPORTED	Four corners and the rear center continue to the roof; the front center ends at the cage-support frame. All attach outside the frame. Cut lengths are UNVERIFIED .
Nominal 2x3 interior cage supports	5	MEASURED AS-BUILT	Two wide shared-bearing supports and three narrow center supports. Left-edge locations appear in RH-AB-002. Numeric cut lengths are UNVERIFIED .
Upper longitudinal 2x4 roof beams	2 bearing lines	PHOTO-OBSERVED	Support the roof joists by direct bearing. Stock count, splices, and cut lengths are UNVERIFIED .
Roof-joist lumber	8 joists	PHOTO-OBSERVED	Spans in the roof-slope direction and stops within the structural bearing region. Nominal size, cuts, and spacing are UNVERIFIED .
1x4 roof purlins	3	PHOTO-OBSERVED	Run longitudinally above and perpendicular to the joists. Cuts and spacing are UNVERIFIED .
1x4 rear-enclosure backing	2	OWNER-REPORTED	One upper and one lower exterior member, each following the 144 in overall span. Stock joints or splices are UNVERIFIED .
Short-side exterior 1x4 supports	As shown in RH-AB-001 and RH-AB-004	PHOTO-OBSERVED	One upper member across the cage top and one immediately below the cage-support frame. Stock quantity and cuts are UNVERIFIED .
Cage-support frame and exterior rails	Field quantity	PHOTO-OBSERVED	Reproduce the relationships in RH-AB-001 through RH-AB-004. Unidentified nominal sizes, stock counts, and cuts are UNVERIFIED .

Sheet Goods No structural sheet good is documented in completed Version 1.	Open-Side Boundary The front/access side and both short sides remain permanently open.
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Roofing And Panels

Material or component	Practical quantity	Evidence	Builder use and limitation
Single-slope metal roofing	Field quantity for measured overhangs	PHOTO-OBSERVED	Install above the three purlins. Panel count, profile, width, overlap, and total installed dimensions are UNVERIFIED .
Full manufactured roof-panel length	Retain rather than shorten	OWNER-REPORTED	Full-length panels avoided angle-grinder cuts and created covered food and hay storage. The manufactured length is not recorded as an as-built measurement.
Clear corrugated rear enclosure	Field panel quantity	OWNER-REPORTED	Rear/weather side only; approximately 33 in tall × 144 in overall. Panel count, cuts, seams, and overlap are UNVERIFIED .

Materials - Hardware And Purchased Components

Item	Practical quantity	Evidence	Builder use and limitation
Exterior structural screws	Field quantity	PHOTO-OBSERVED	Used at visible framing connections. Type, diameter, length, count, embedment, and schedule are UNVERIFIED .
Roofing and panel fasteners	Field quantity	PHOTO-OBSERVED	Select for compatibility with the chosen products. The Version 1 fastener model and schedule are UNVERIFIED .
Manufactured joist hangers or framing brackets	0 documented	PHOTO-OBSERVED	Joists bear directly on the upper longitudinal beams; no manufactured hangers are documented.
Removable wire cages	3	PHOTO-OBSERVED	Measure intended cages before cutting; completed cage dimensions and removal clearances are UNVERIFIED .
Base blocks or shims	Site-dependent	UNVERIFIED	Do not copy the temporary bearing condition shown in completion photographs as a site prescription.
Site anchoring	Site-dependent	UNVERIFIED	Select for the final site and local conditions. No universal Version 1 anchoring package is documented.

Historical Purchase Record

The historical purchase record remains procurement history, not an actual-used bill of materials; leftovers, substitutions, additions, and final consumption were not recorded.

Practical Cut List

The measured values below control the reproduced layout but do not establish undocumented individual cuts.

Measured And Owner-Confirmed Targets

Target	Value	Evidence	Drawing reference
Cage-support frame outside length	114 in	MEASURED AS-BUILT	RH-AB-001, RH-AB-002, RH-AB-003
Cage-support frame outside depth	33 in	MEASURED AS-BUILT	RH-AB-002, RH-AB-004
Bottom of cage-support frame above grade	32 in	MEASURED AS-BUILT	RH-AB-001, RH-AB-003, RH-AB-004
Front lower rail	4 in above post bottoms	MEASURED AS-BUILT	RH-AB-003
Rear lower rail	4 in above post bottoms	MEASURED AS-BUILT	RH-AB-003
Short-side lower rail	7 in above post bottoms	MEASURED AS-BUILT	RH-AB-004
Roof overhang - front/access	27 in from corner posts	MEASURED AS-BUILT	RH-AB-001, RH-AB-004, RH-AB-005
Roof overhang - rear/weather	26 in from corner posts	MEASURED AS-BUILT	RH-AB-001, RH-AB-004, RH-AB-005
Roof overhang - both short ends	15 in from corner posts	MEASURED AS-BUILT	RH-AB-001, RH-AB-003, RH-AB-005
Rear clear-enclosure assembly	Approximately 33 in tall × 144 in overall	OWNER-REPORTED	RH-AB-001, RH-AB-003

Cage-Support Layout

Measure from the far-left outside edge of the 114 in frame. Each value locates the left edge of its nominal 2x3 support.

Order	Orientation	Left edge	Evidence
1	Narrow	19 in	MEASURED AS-BUILT
2	Wide	37 in	MEASURED AS-BUILT
3	Narrow	57 in	MEASURED AS-BUILT
4	Wide	74 1/2 in	MEASURED AS-BUILT
5	Narrow	93 3/4 in	MEASURED AS-BUILT

Owner-Confirmed Full-Span Members

Member	Qty	Supported length	Evidence and limitation
Rear-enclosure upper 1x4 backing	1	144 in overall span	OWNER-REPORTED; stock joints or splices are UNVERIFIED.
Rear-enclosure lower 1x4 backing	1	144 in overall span	OWNER-REPORTED; stock joints or splices are UNVERIFIED.

The center cage-support cuts match the original design (OWNER-REPORTED), but no numeric as-built cut length was recorded. They remain field-fit.

The two wide supports share bearing between adjacent cages. The three narrow supports reduce the horizontal waste-catching surface. Attachments and numeric cut lengths are UNVERIFIED.

Practical Cut List - Field-Fit Schedule

Member group	Quantity or arrangement	Supported instruction	Evidence boundary
Cage-support perimeter frame	One 114 × 33 in outside frame	Cut selected stock to produce the measured outside dimensions and RH-AB-002 relationship.	Individual cuts, corner joints, and nominal frame-stock size are UNVERIFIED .
2x6 vertical supports	6	Fit four corners and the rear center to the roof; end the front center at the cage frame. Attach outside the frame.	Offsets, end cuts, and lengths are UNVERIFIED .
2x3 cage supports	5	Fit to the frame depth and install at the measured left-edge locations and orientations.	Numeric cuts and attachments are UNVERIFIED .
Exterior upper, intermediate, and lower rails	As shown in RH-AB-001, RH-AB-003, and RH-AB-004	Fit between or across the applicable outside vertical faces; preserve measured lower-rail elevations.	Exact quantities, unidentified stock sizes, upper heights, and cuts are UNVERIFIED .
Upper longitudinal 2x4 roof beams	2 bearing lines	Fit to provide direct bearing for all eight joists.	Lengths, splices, and connection geometry are UNVERIFIED .
Roof joists	8	Span between the longitudinal bearing regions; do not extend through the full roofing overhang.	Nominal size, length, angle, projection, and spacing are UNVERIFIED .
Roof purlins	3 longitudinal 1x4 members	Fit longitudinally above and perpendicular to the joists.	Lengths and spacing are UNVERIFIED .
Metal roofing	Field panel quantity	Retain full manufactured length and lay out to achieve the measured overhangs.	Panel count, profile, overlap, width, and fastening schedule are UNVERIFIED .
Clear rear enclosure	Field panel quantity	Fit the selected clear corrugated product to the approximately 33 in tall × 144 in overall rear assembly.	Panel count, seams, overlap, cuts, expansion allowance, and fastening schedule are UNVERIFIED .

Do Not Derive From The Drawings

Do not derive roof geometry, post heights, member spacing, joist projection, hidden joints, fastener specifications, panel layout, or site-specific bearing and anchoring dimensions from the drawings.

Build Sequence

1. **Confirm cages and site assumptions.** Stage three cages and verify their outside dimensions and handling clearance before cutting field-fit members.
2. **Build the cage-support frame.** Assemble it to the **MEASURED AS-BUILT** 114 × 33 in outside dimensions.
3. **Install five interior 2x3 supports.** Use the **MEASURED AS-BUILT** locations and wide/narrow orientations in RH-AB-002.
4. **Attach six outside 2x6 supports.** The four corners and rear center continue to the roof; the front center ends at the cage-support frame (**OWNER-REPORTED**).
5. **Install exterior horizontal framing.** Preserve the open front and short sides; place lower rails at their **MEASURED AS-BUILT** elevations and follow RH-AB-001, RH-AB-003, and RH-AB-004.
6. **Install upper longitudinal roof beams.** Provide the two direct-bearing lines shown in RH-AB-004 (**PHOTO-OBSERVED**).
7. **Install eight roof joists.** Span the slope direction and bear directly on both upper beams; do not continue through the full roofing overhang (**PHOTO-OBSERVED**).
8. **Install three roof purlins.** Place longitudinal 1x4 members above and perpendicular to the joists; field-fit their spacing (**PHOTO-OBSERVED**).
9. **Install metal roofing.** Keep it above the purlins and use the **MEASURED AS-BUILT** 27 in front, 26 in rear, and 15 in short-end overhangs as targets. Retain full manufactured panel length (**OWNER-REPORTED**).
10. **Install and check cages.** Confirm shared and center bearing, open manure access below, and practical handling.
11. **Install the rear weather enclosure.** Mount one upper and one lower 1x4 outside the rear vertical supports, then fit the clear panel close to their exterior faces. The assembly is approximately 33 in tall × 144 in overall (**OWNER-REPORTED**).
12. **Level and secure for the site.** Select bearing, leveling, and anchoring appropriate to local conditions; the photographed temporary condition is not a universal method.

No screw-by-screw fastening schedule is implied.

Builder Notes

Topic	Version 1 lesson
Frame stiffness	OWNER-REPORTED: Horizontal rails replaced planned X-bracing, avoiding the unwanted bulge and angled cuts of crossed members. Additional lower perimeter rails stiffened the frame during roofing and were intended to limit long-term bowing or twisting.
Roof coverage	OWNER-REPORTED: Full manufactured panel length avoided angle-grinder cuts, covered food and hay storage, and created a sheltered work area.
Roof stack	OWNER-REPORTED / PHOTO-OBSERVED: Roof details were finalized during construction. The completed stack is two upper longitudinal bearing lines, eight directly bearing joists, three longitudinal 1x4 purlins, then metal roofing.
Cage support	OWNER-REPORTED: Two wide supports share adjacent cage edges; three narrow supports reduce waste-catching surface. The frame captures the cages without planned retaining trim. A retaining notch is not part of Version 1.
Weather enclosure	OWNER-REPORTED: Only the rear/weather side is permanently enclosed; the front and short sides stay open for airflow and access.

Project Limitations

This package documents the completed configuration, principal structural relationships, measured layout targets, supported material classes, high-level assembly order, and owner-confirmed construction decisions.

It is not:

- a structural-engineering certification
- a building-code or permit determination
- a complete fastener schedule
- a fully dimensioned shop-drawing set
- an actual-used bill of materials
- a site-specific foundation or anchoring design
- a general carpentry manual
- a warranty of structural, weather, predator, or animal-safety performance

Intentionally undocumented or field-fit:

- post heights and exact vertical-support offsets
- roof pitch, joist-end projection, member cuts, and joist or purlin spacing
- hidden joints and structural-screw specifications or schedules
- roofing panel count, profile, width, overlap, and fastening schedule
- rear-panel count, cuts, seams, overlap, expansion allowance, and fastening schedule
- actual-used stock, offcuts, leftovers, substitutions, and waste
- final-site bearing, leveling, and anchoring

Version 1 boundary: Enclosed cage ramps and partially buried nesting totes are future enhancements and are excluded from Version 1.

Design inspiration: The initial concept for this project was inspired by a rabbit-hutch plan published by The Rabbitry Center. Rabbit Hutch Version 1 evolved substantially during design and construction. The RH-AB drawings and this Builder Package document the owner's completed custom build rather than reproducing the original plan. This acknowledgment does not imply endorsement, sponsorship, collaboration, or approval by The Rabbitry Center.

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Revision Summary

master-builder-package.md is the canonical source for this Builder Package. Broader engineering history and evidence records remain preserved locally and outside the public-release allowlist.

Public record	Repository reference
Owner-approved Version 1 drawings	diagrams/as-built/
Approved component documents	materials-list.md, practical-cut-list.md, and build-sequence-and-notes.md
Publication source	master-builder-package-print.html and builder-package-print.css
Licensing and exclusions	LICENSE-CONTENT.md, LICENSE-CODE, and NOTICE.md

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