Scan Check Report

SAMPLE 02 - THREE-LEVEL HOUSE

Sample set. Client name, address and any detail that would identify the property have been removed. Drawings, figures and checks are otherwise exactly as delivered.

Point cloud source	Terrestrial laser scanner, E57
Scan date	03/12/2026
Modeling tolerance (straight-wall fit)	+/- 3/8" (10 mm)
Drawing set	11 sheets, ARCH D (24" x 36"), 1/4" = 1'-0"
Standard	US National CAD Standard V7 layers, imperial units, interior and exterior net areas
Net interior area	1,435 SF
Exterior and ancillary spaces	1,586 SF (garage, porches, balconies, terraces and other spaces listed apart; spaces not surveyed have no area)
Total scheduled area	3,021 SF (1,435 SF interior; 1,586 SF exterior, covered or ancillary)
Sheets	A-101, A-102, A-103, A-121, A-122, A-123, A-201, A-202, A-203, A-204, A-601

Summary

Check	Result
Drawn walls against the point cloud	**91%** of samples on 143 measured wall faces within +/- 3/8"; 96% within +/- 3/4"
Automated drawing checks (layers, units, dimensions, areas, schedules, text, sheets, plot style, DWG file read back)	**All 41** passed (1 confirmed on manual review)
Title block, sheet numbering and file checks	**3 of 3** passed

Drawn walls against the point cloud

Every wall face of the plans is sampled every 2 in and compared with the nearest scan point in a horizontal slice of the scan taken through the walls of that level. Door and window openings are left out. A sample with no scan point within 2 in is counted as not captured: exterior faces the scanner could not reach, party walls. Faces captured on less than half their length are left out of the figures and are drawn as assumed where the plans say so.

The plans draw walls straight and square, as is usual for architectural drawings. Existing walls are rarely so: walls out of plumb or out of square, baseboards and finishes move the scanned surface away from the drawn line. The share of samples between 3/8" and 3/4" comes mostly from these, not from misplaced walls.

Level	Faces measured	Median	90th pct.	Within +/- 3/8"	Within +/- 3/4" (20 mm)	Not captured (openings excluded)
Level 1	61	0.04 in (0.9 mm)	0.15 in (3.8 mm)	97%	98%	14 ft
Level 2	53	0.05 in (1.2 mm)	0.47 in (12 mm)	88%	96%	69 ft
Roof Terrace	29	0.03 in (0.9 mm)	0.62 in (16 mm)	85%	93%	8 ft

Automated drawing checks

Every set is read back by software before release: layer names and plot styles, units and scales, dimension strings against the geometry, room areas and schedule totals, door and window tags against the schedules, text sizes, sheet numbering and title blocks, and the DWG file opened again after conversion.

All checks passed. One door tag sits close to a wall line next to the stair: every other position crossed a dimension string or another tag, and this one was confirmed on review.

Limits of this survey

Exterior faces the scan did not reach are drawn dashed on layer A-INFR and labeled NOT SURVEYED or INFERRED.

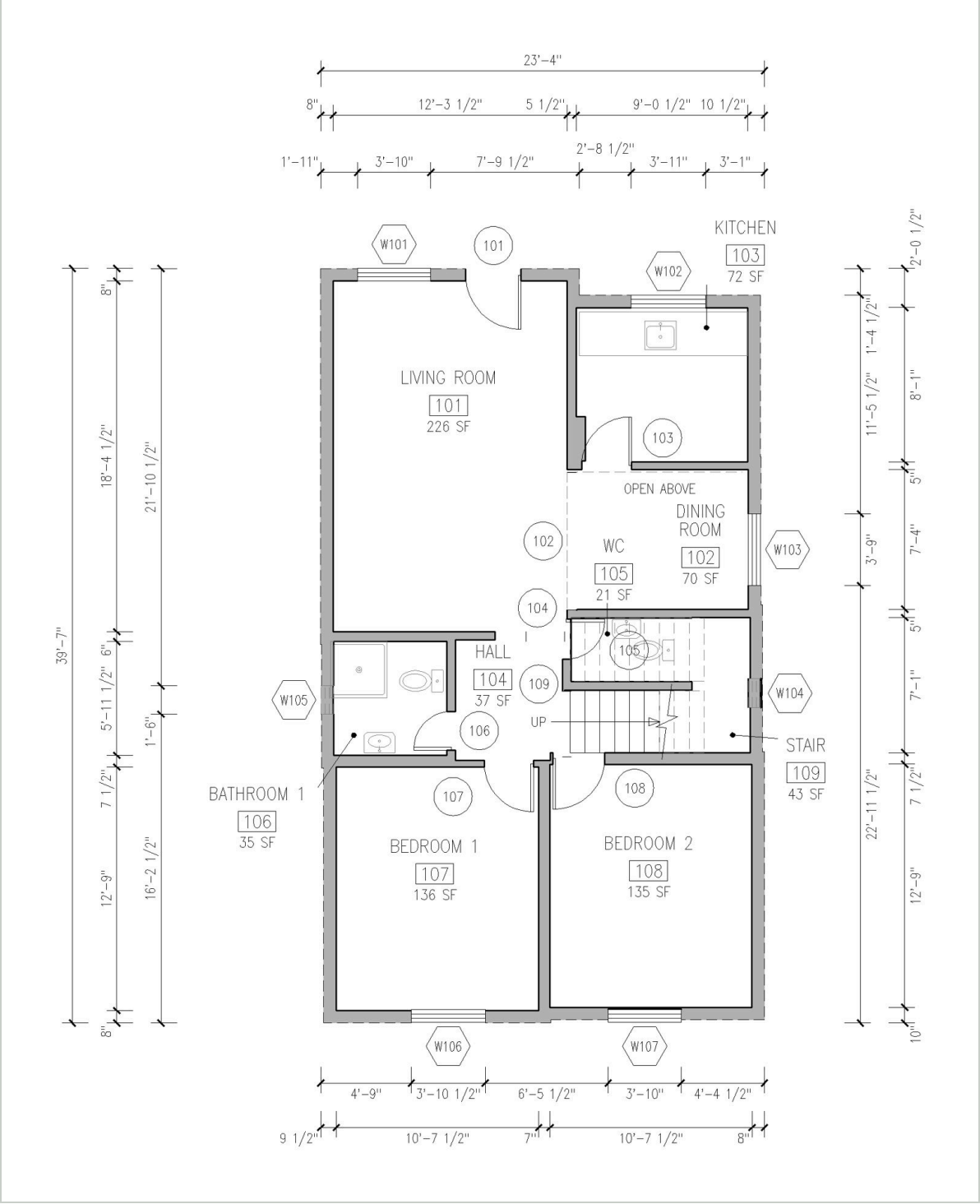
Door swings marked SWING ASSUMED in the door schedule (doors 107, 108, 203 to 207 and 303) were not verified on site.

Exterior wall thickness is assumed at 8 in where the outer face was not captured; overall exterior dimensions include it.

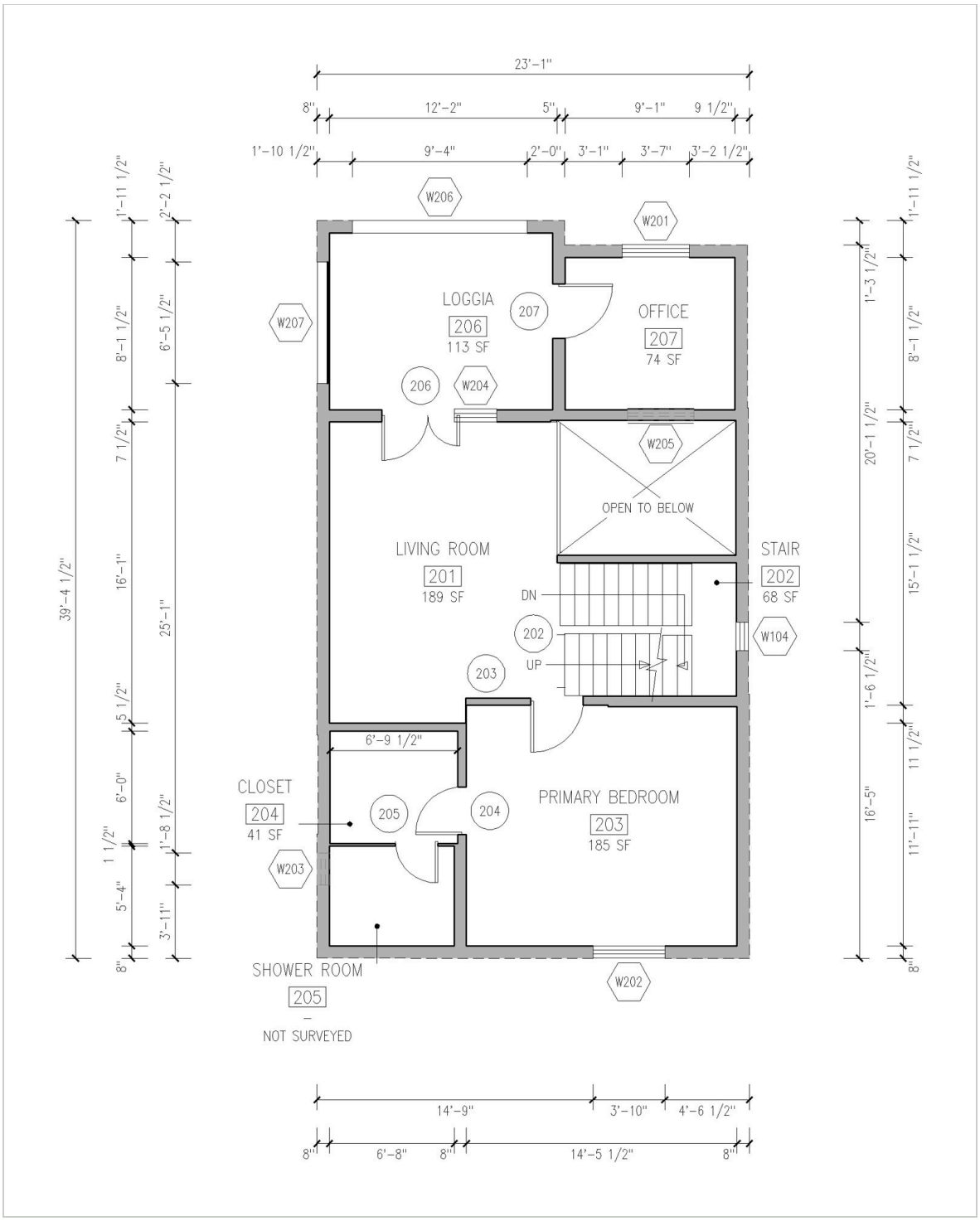
The house was under construction when scanned: openings and finishes are recorded as found that day.

Plans over the point cloud

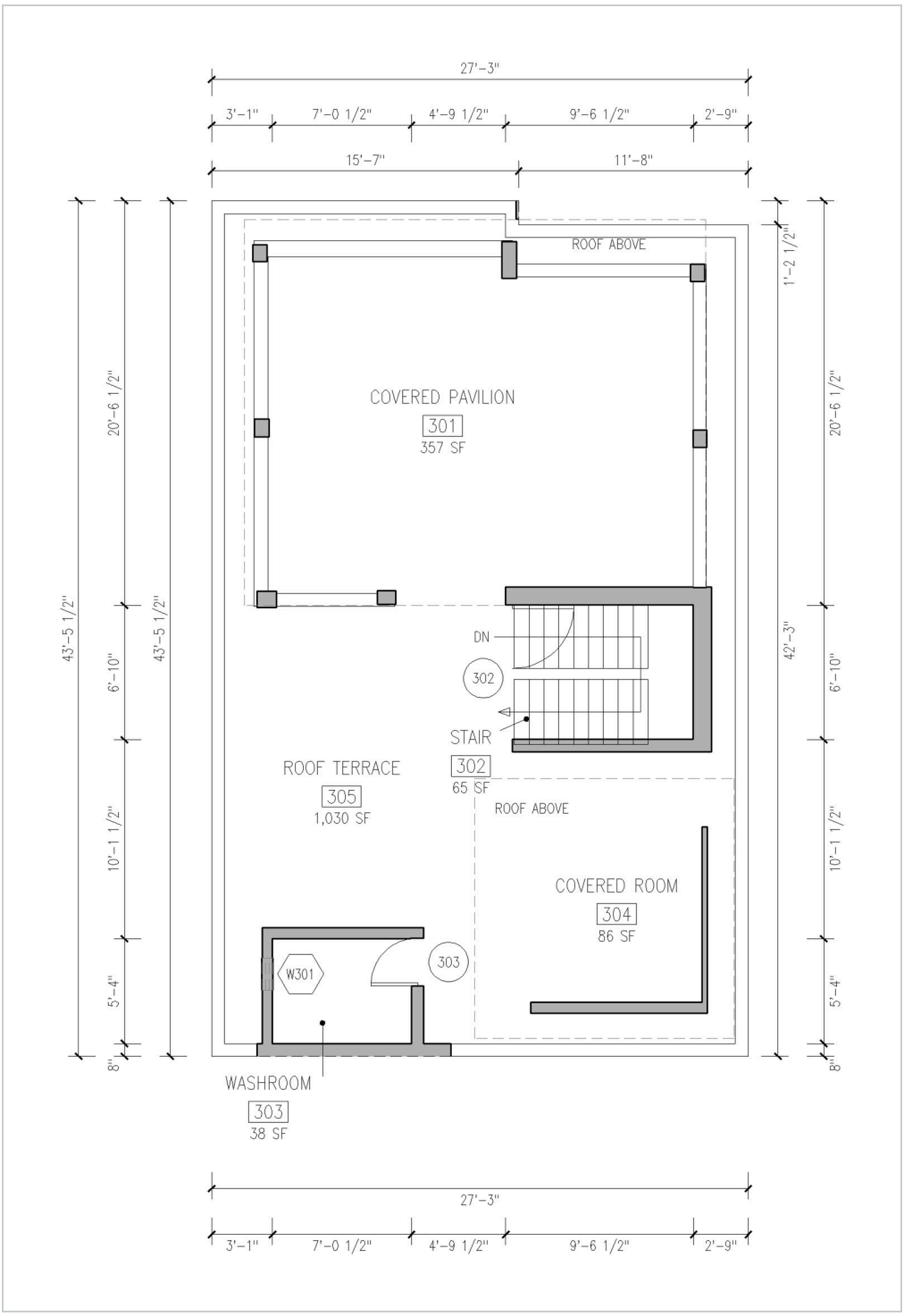
Each floor plan drawn over a horizontal slice of the scan taken at the plan cut height.



Sheet A-101


23'-1"
8"
12'-2"
5"
9'-1"
9 1/2"
1'-10 1/2"
9'-4"
2'-0"
3'-1"
3'-7"
3'-2 1/2"
W206
W201
W207
LOGGIA
206
113 SF
207
OFFICE
207
74 SF
206
W204
W205
OPEN TO BELOW
LIVING ROOM
201
189 SF
STAIR
202
68 SF
DN
202
UP
W104
203
6'-9 1/2"
CLOSET
204
41 SF
205
204
PRIMARY BEDROOM
203
185 SF
W203
SHOWER ROOM
205
NOT SURVEYED
W202
39'-4 1/2"
1'-11 1/2"
2'-2 1/2"
8'-1 1/2"
6'-5 1/2"
7 1/2"
16'-1"
25'-1"
5 1/2"
6'-0"
1'-8 1/2"
1 1/2"
5'-4"
3'-11"
8"
20'-1 1/2"
1'-3 1/2"
15'-1 1/2"
1'-6 1/2"
11 1/2"
16'-5"
11'-11"
14'-9"
3'-10"
4'-6 1/2"
6'-8"
14'-5 1/2"

Sheet A-102



Sheet A-103

Prepared by SquareDrawn LLC, Indianapolis, Indiana. Not a boundary, land or ALTA survey. Report generated 11/19/2026.