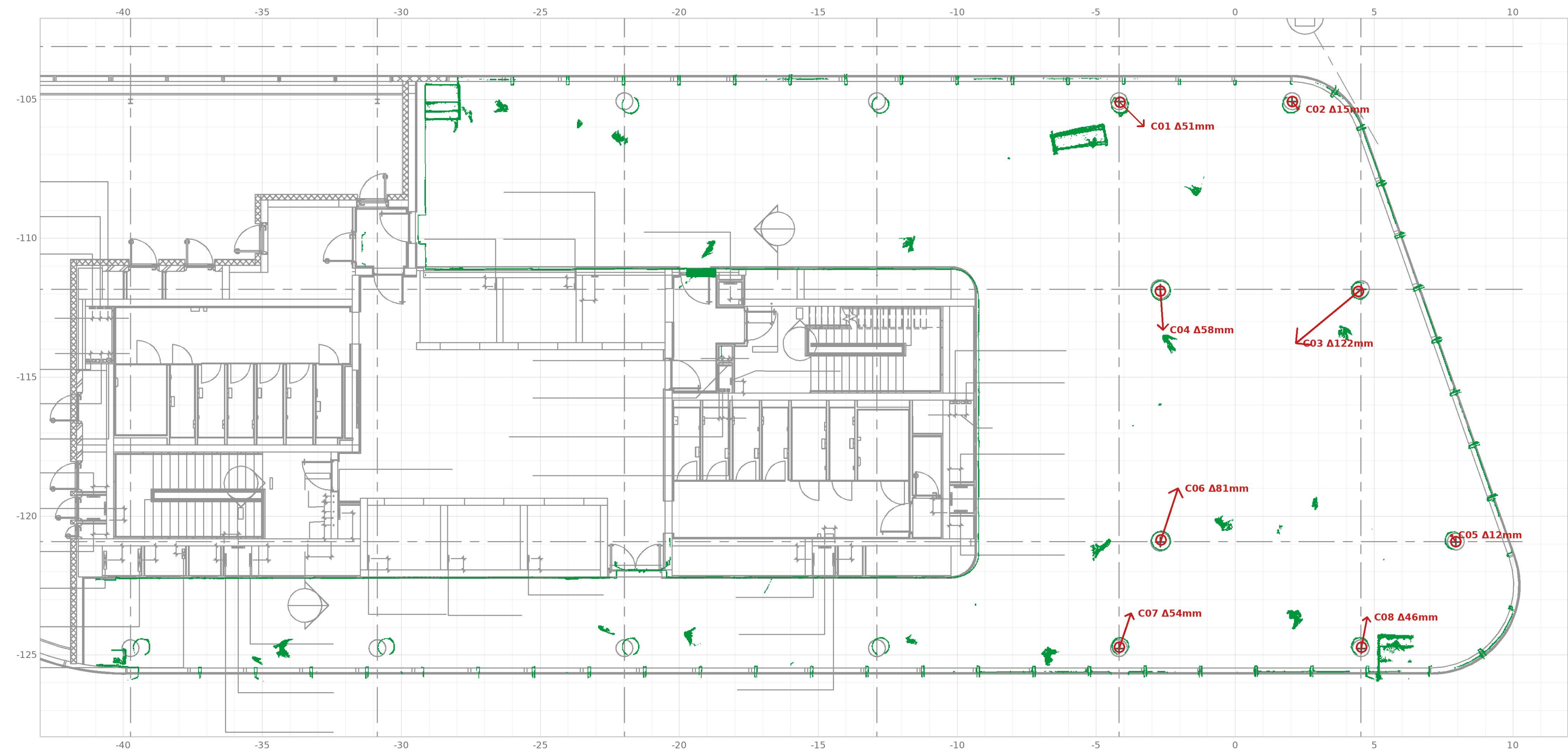




KEY

GA drawing linework (GA_L8_6502L, PDF-import layers)

scan points 1.2-2.2 m AFF (walls band)

drawing column position (cross)

scan-verified column (<= 400 mm gate)

deviation vector, exaggerated x25

COLUMN FIT TABLE (project mm)

ID	E_draw	N_draw	E_scan	N_scan	dE	dN	d
C01	-4179	-105074	-4143	-105110	+36	-36	51
C02	2048	-105074	2057	-105085	+9	-11	15
C03	4530	-111839	4437	-111916	-94	-78	122
C04	-2692	-111840	-2689	-111898	+4	-58	58
C05	7940	-120924	7934	-120914	-7	+10	12
C06	-2692	-120925	-2667	-120849	+25	+77	81
C07	-4179	-124761	-4161	-124711	+17	+51	54
C08	4530	-124761	4539	-124716	+9	+45	46
median d = 52 mm p95 = 107 mm max = 122 mm (C03)							

FIT VERDICT

8 of 8 drawing columns in the scanned area are scan-verified (130 of 138 raw scan detections were facade mullions/noise — dropped at the 400 mm gate).
Median column delta = 52 mm = the registration residual. These 8 pairs ARE the registration inliers, so deltas of this size are survey/registration noise — NOT construction deviation.
C03 (E 4530, N -111839) at 122 mm is the only pair beyond ~2x the residual floor — possibly a true offset, but below a confident call at 25 mm voxel + 52 mm registration. Check-measure on site if it matters.
VERDICT: GA matches the scan at every verifiable column (worst 122 mm). No gross misplacement. Registration is self-consistent — note this is not an independent absolute-grid check.

METHOD

GA linework: GA_L8_6502L.dxf PDF-import layers (geometry + fill boundaries; text omitted), grey, clipped to the scan window. GA drawing continues beyond the window — scan coverage is 51 x 22 m.
Scan: L8_voxel3d.npy, robust XY crop 0.3-99.7% only, walls band 1.2-2.2 m AFF (zfloor = 2nd percentile of z = -1.085 m scan).
Columns: one pair per drawing column (closest gated detection). Deviation vectors exaggerated x25 on plan; table values true. Registration per reg_L8.json (flip=1, 8 inliers, median resid 52.0 mm).

ASANA FIT-OUT — AS-BUILT FROM LASER SCAN

L8 FIT CHECK — GA DRAWING vs LASER SCAN

SHEET ASA-SCAN-L08-FIT-01

SCALE 1:100 @ A1

DATE 2026-07-02

Source: site laser scan (E57), 25 mm voxel. Registered to Metec/GA project grid, median residual 52 mm (8 column-pair inliers). Points are as-scanned; absence of points != absence of kit (occlusion).

