



Zenith

RESIDENTIAL ELEVATOR

Planning Guide

Applicable Codes:

ASME A17.1/CSA-B44

Safety Code for Elevators and Escalators
Section 5.3 – Private Residential Elevators

Part No. 001236
11-m10-2019

IMPORTANT NOTICE

This Planning Guide provides nominal dimensions and specifications useful for the initial planning of a project. Before beginning actual construction, make sure you have the installation (shop) drawings customized with specifications and dimensions for your specific project.

NOTE: The cab dimensions provided in this manual are based on a PLAM cab.

Lift configurations and dimensions are in accordance with our interpretation of the standards set forth by the codes listed on the front cover of this Planning Guide. Please consult Savaria or the authorized Savaria dealer in your area for more specific information pertaining to your project, including any discrepancy between referenced standards and those of any local codes or laws.

The dimensions and specifications in this Planning Guide are subject to change (without notice) due to product enhancements and continually evolving codes and product applications.

Visit our website www.savaria.com for the most current drawings and dimensions.

Purpose of This Guide

This Planning Guide is designed to assist architects, contractors, and elevator professionals in planning for the Zenith Residential Elevator to meet the requirements of the following codes and standards:

- ASME A17.1/CSA B44 2000, Section 5.3
- ASME A17.1/CSA B44 2004, Section 5.3
- ASME A17.1 2004, Addendum 2005, Section 5.3
- ASME A17.1/CSA B44 2007, Section 5.3
- ASME A17.1/CSA B44, Addendum 2008, Section 5.3
- ASME A17.1/CSA B44 2010, Section 5.3
- ASME A17.1/CSA B44 2013, Section 5.3
- ASME A17.1/CSA B44 2016, Section 5.3
- ASME A17.1 1996, Part 5

We recommend that you contact your local authority having jurisdiction to ensure that you adhere to all local rules and regulations pertaining to residential elevators.

How to Use This Guide

- 1 Determine your client's intended use of the elevator.
- 2 Determine the local code requirements.
- 3 Determine the site installation parameters.
- 4 Determine the cab type and hoistway size requirements.
- 5 Plan for electrical requirements.

Revision History of This Guide

September 9, 2019 – Initial release
September 16, 2019 – Revised controller box dimensions on page 71
September 18, 2019 – Revised daily cycle to 200 in specs table on page 6
September 26, 2019 – Revised all drawings to latest version
October 9, 2019 – Revised specifications table on page 7
October 11, 2019 – Added rail support wall structure drawing on page 127

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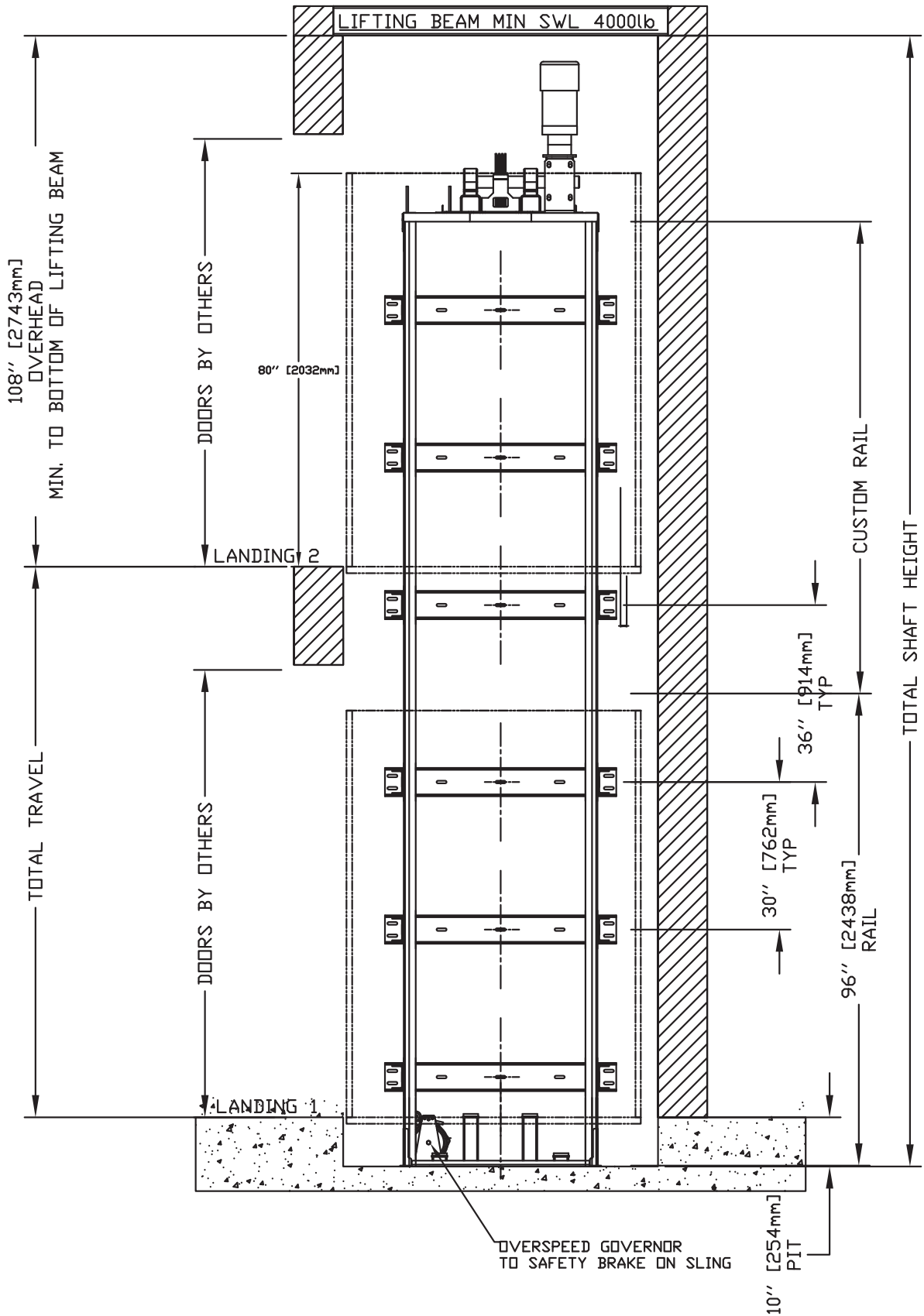
Specifications

Specification type	Specification data
Load capacity	1400 lb (635 kg)
Rated speed	40 ft/min (0.20 m/sec)
Power supply (circuit by others)	208 Volt, three-phase, 30 Amps, 60 Hz or 240 Volt, single-phase, 40 Amps, 60 Hz
Lighting supply (circuit by others)	120 Volt, 15 Amps, 60 Hz
Drive system	Counterweight traction with slack cable safety device Geared motor 1:1 sheave Three 3/8" diameter steel cables (ropes) Rope wedge sockets
Cab size	<ul style="list-style-type: none"> • 36" x 48" (914 mm x 1219 mm) • 36" x 54" (914 mm x 1372 mm) • 36" x 60" (914 mm x 1524 mm) • 40" x 54" (1016 mm x 1372 mm)
Cab panel finish	Solid melamine or MDF panels (standard), unfinished oak veneer panels (optional), finished recessed veneer panels (optional), solid hardwood raised panels (optional)
Maximum travel	50 feet (12.24 m) - 60 feet (18.29 m) available where code permits
Control system	Micro-6 controller
Temperature operating range	-10 degrees C to +40 degrees C (+14 degrees F to +104 degrees F)
Heat generated by motor	~ 2550 BTU/hr
Distance between 2 landings	7" (178 mm) minimum
Noise level (typical installation)	68.2 dBA (up direction); 65.1 dBA (down direction) Measured at a height equal to motor, distance of 1m, in front of motor, no hoistway
Daily cycle	Normal: 200 Maximum starts in 1 hour on standard installation: 45 NOTE: Consult your Sales Representative if there's a chance you may exceed these amounts.
Levels serviced	Up to 6 stops
Pit depth required	10" (254 mm) minimum
Minimum overhead clearance	108" (2743 mm) minimum
Hall station and control panel finish	<ul style="list-style-type: none"> • Clear or bronze anodized aluminum (standard), or stainless steel (optional), or brass (optional), or architect white (optional) • Rectangular (standard) or oval (optional) hall stations, keyless (standard) or keyed (optional)
Standard features	Double 8 lb/ft T-rail modular system Anti-creep device Oxford white melamine ceiling Automatic cab ON/OFF lighting Car top stop switch Data plates, capacity tags and rope tags Digital floor and directional indicator Stop key switch and alarm buttons Emergency battery back-up for lighting, alarm and emergency lowering Floor specific battery lowering Illuminated cab operating buttons Magnetic floor selection, stopping and re-leveling Slack rope safety switch (manual reset) Car top safety rail (for maintenance) Pit switch (emergency stop) 4 standard pot lights Recessed plywood floor Upper and lower terminal limits Overspeed governor Panel-fold doors

Specifications

Specification type	Specification data
Options	<ul style="list-style-type: none"> • Custom cab size • 96" (2438 mm) high cab; 84" (2133 mm) high cab • Rated speed - (50 fpm (0.250 mps) available where code permits) • Accordion car gate (choice of style) • Automatic gate operator • Bi-fold doors • Automatic slim doors • Automatic swing landing door operator • Buffer springs (11" pit depth minimum) • Interlocks for doors by others and Savaria landing doors (fire rated door or wood door) • Keyed on/off control panel and hall stations • Optional cab finishes: raised hardwood, unfinished veneer • Optional fixture finishes: brass #4 finish or blackened stainless steel (handrail, cab operating panel, hall call stations); hall call stations available in rectangular or oval • Telephone cabinet to match trim • Digital position indicator (PI) in hall calls

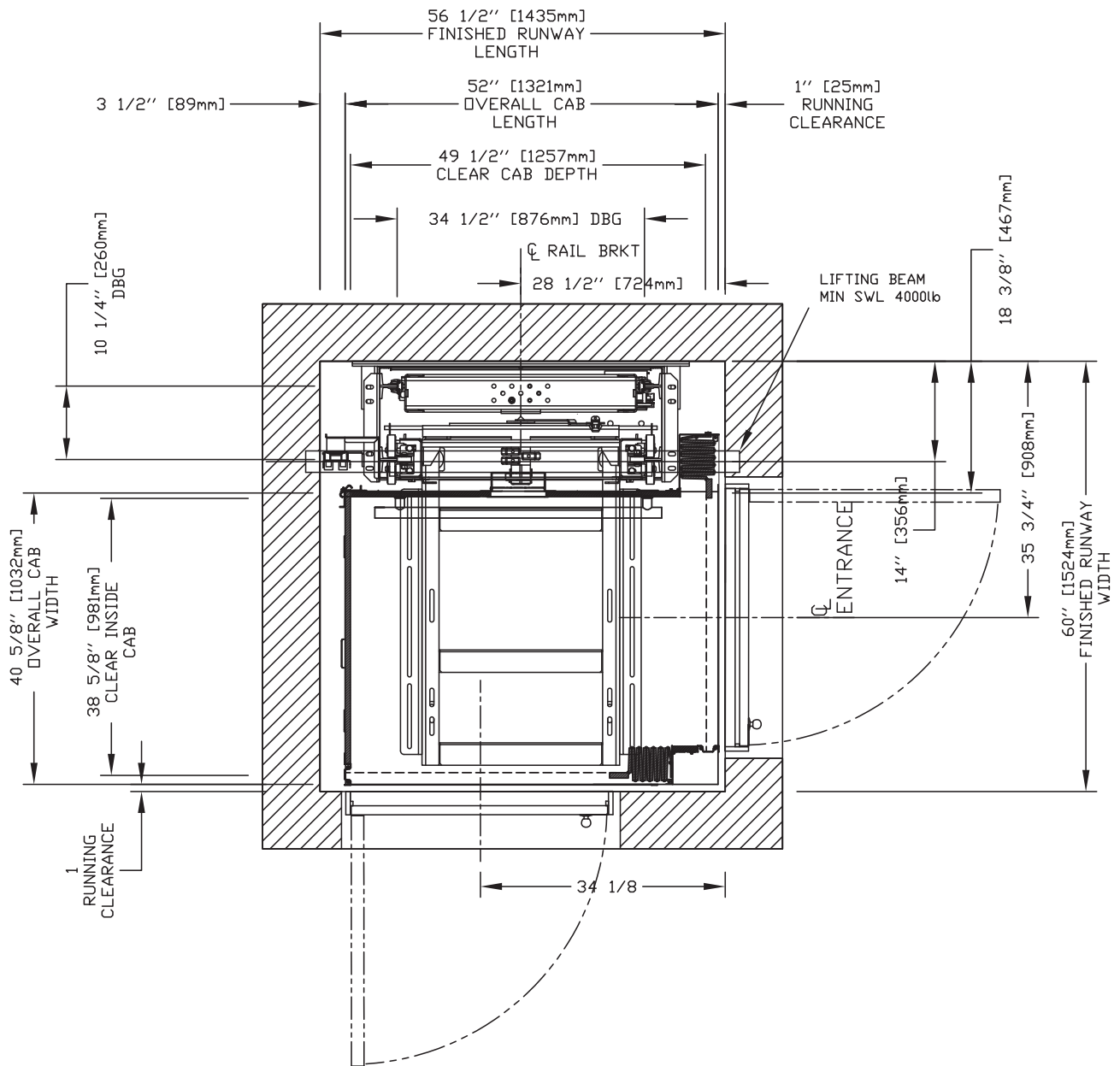
Sample Elevation View, Panel-fold Doors



36" x 49.5" Type 3 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

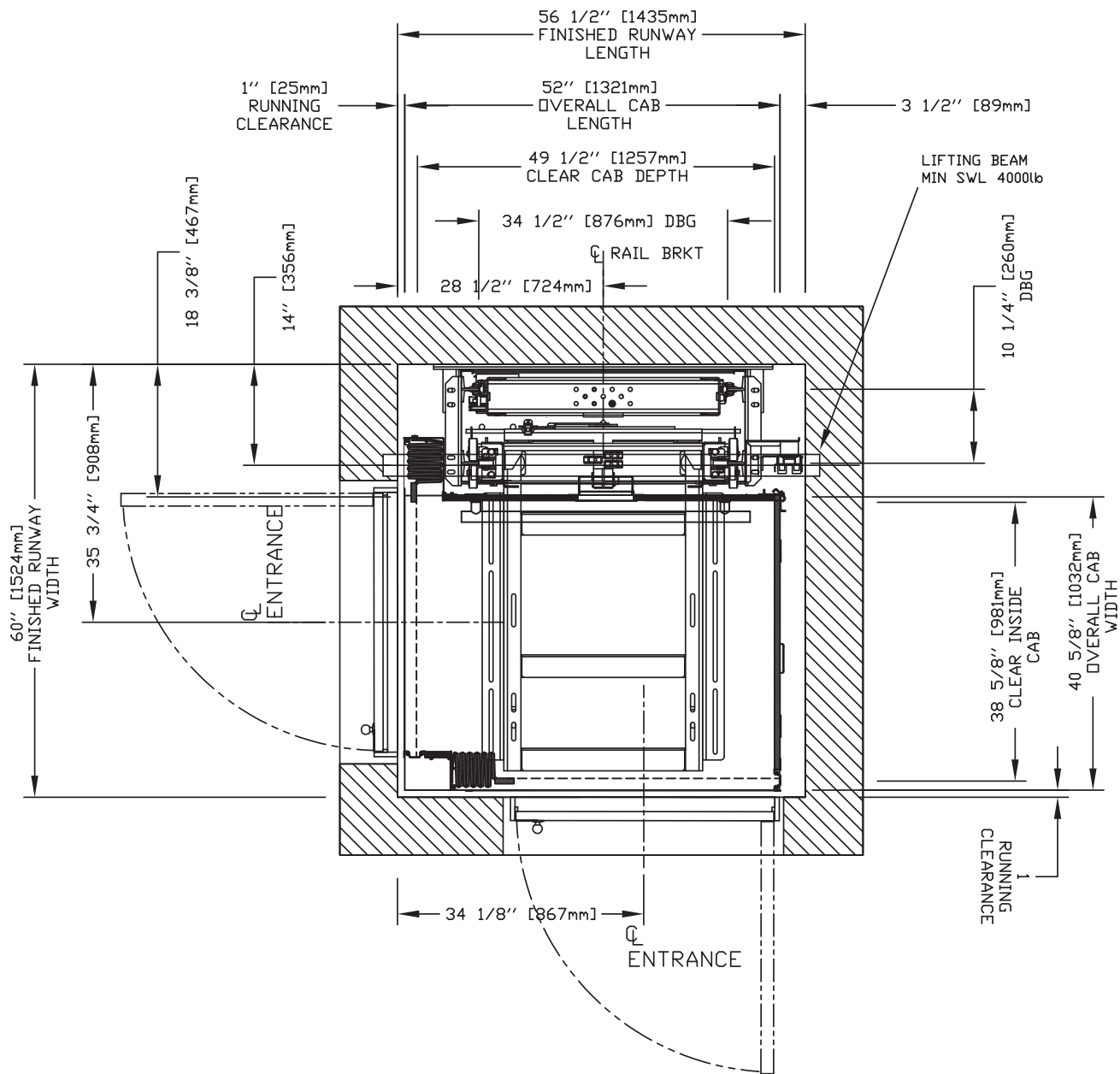


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 49.5" Type 4 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

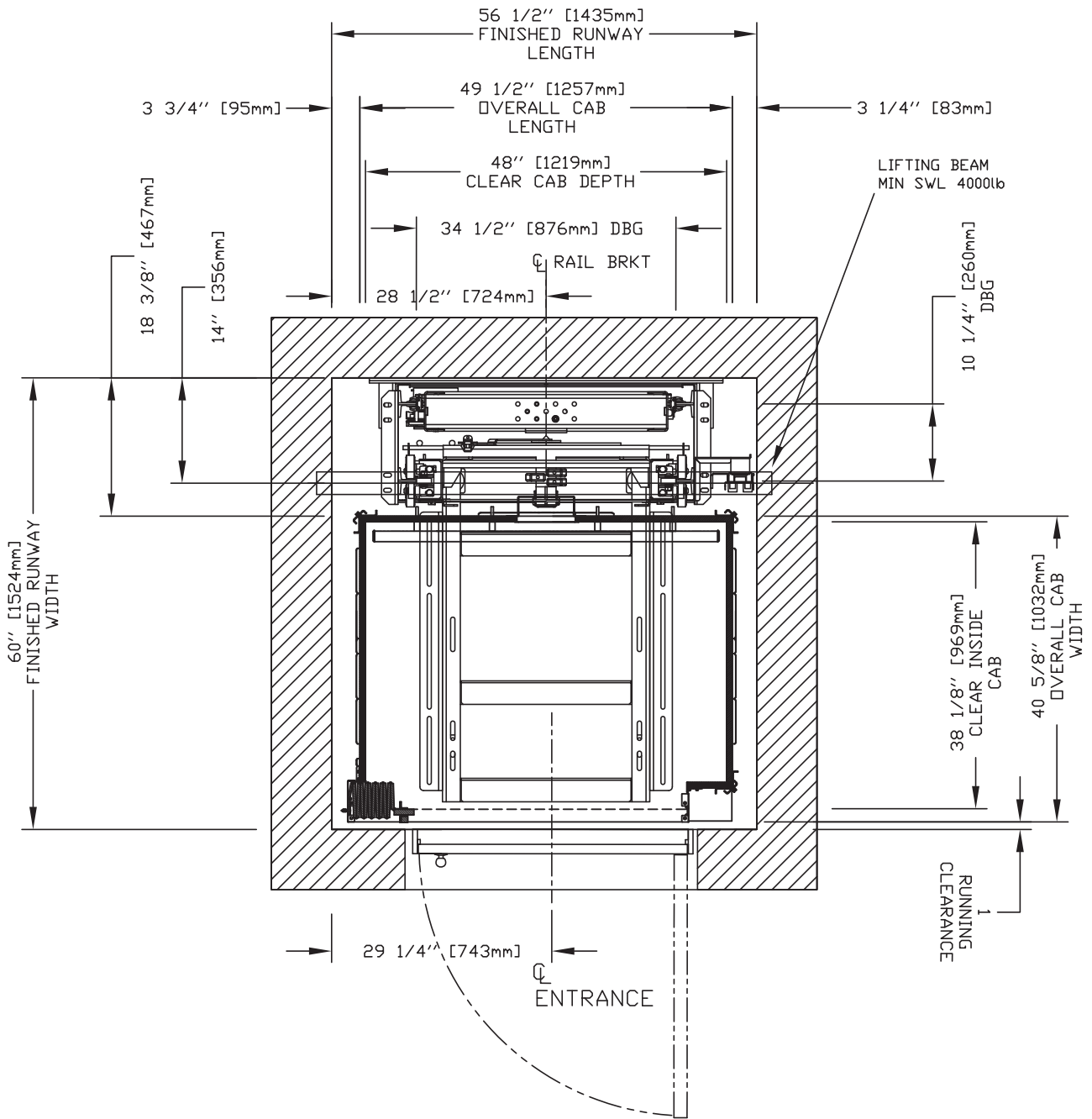


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 5 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

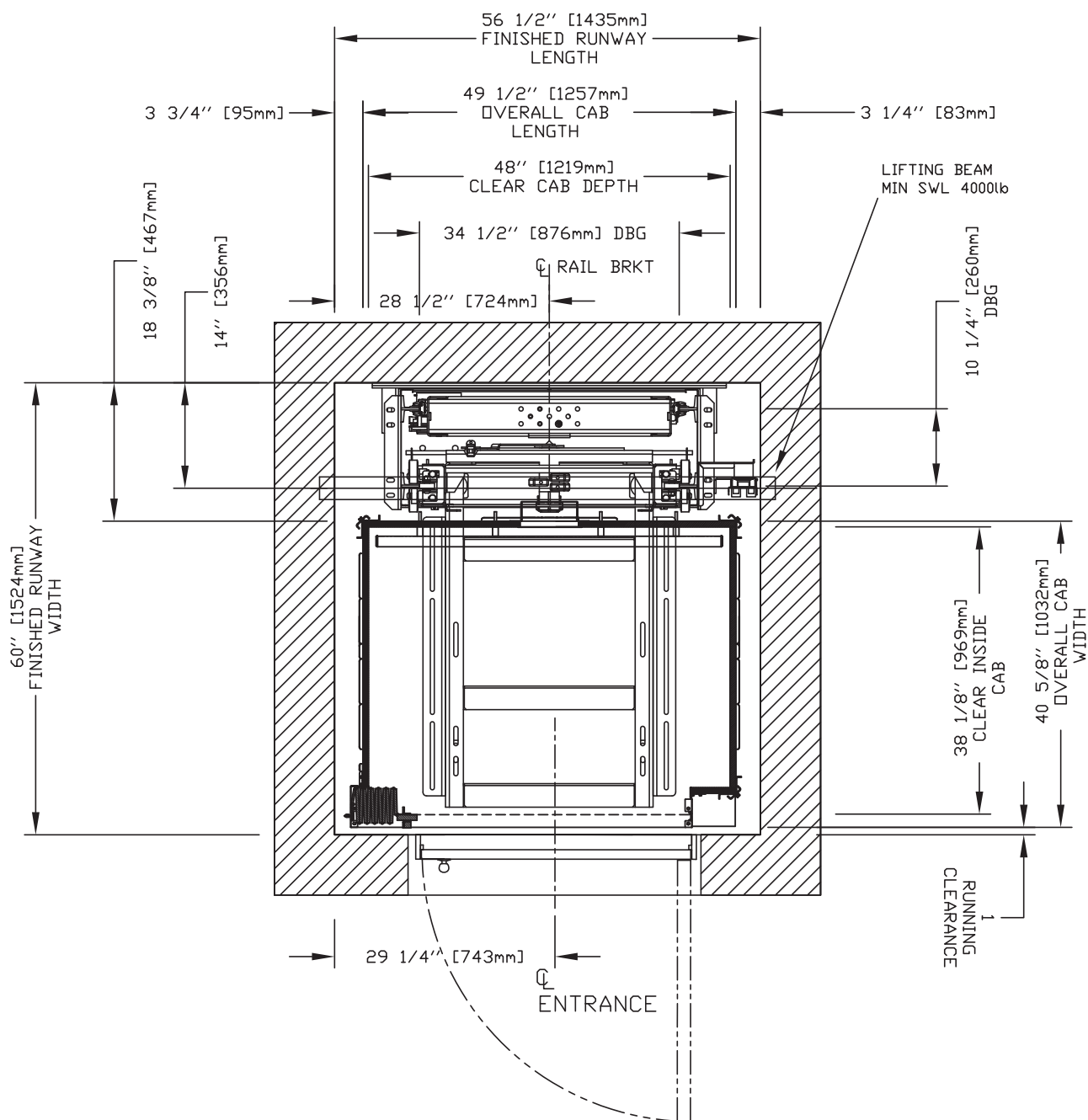


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 5-7 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

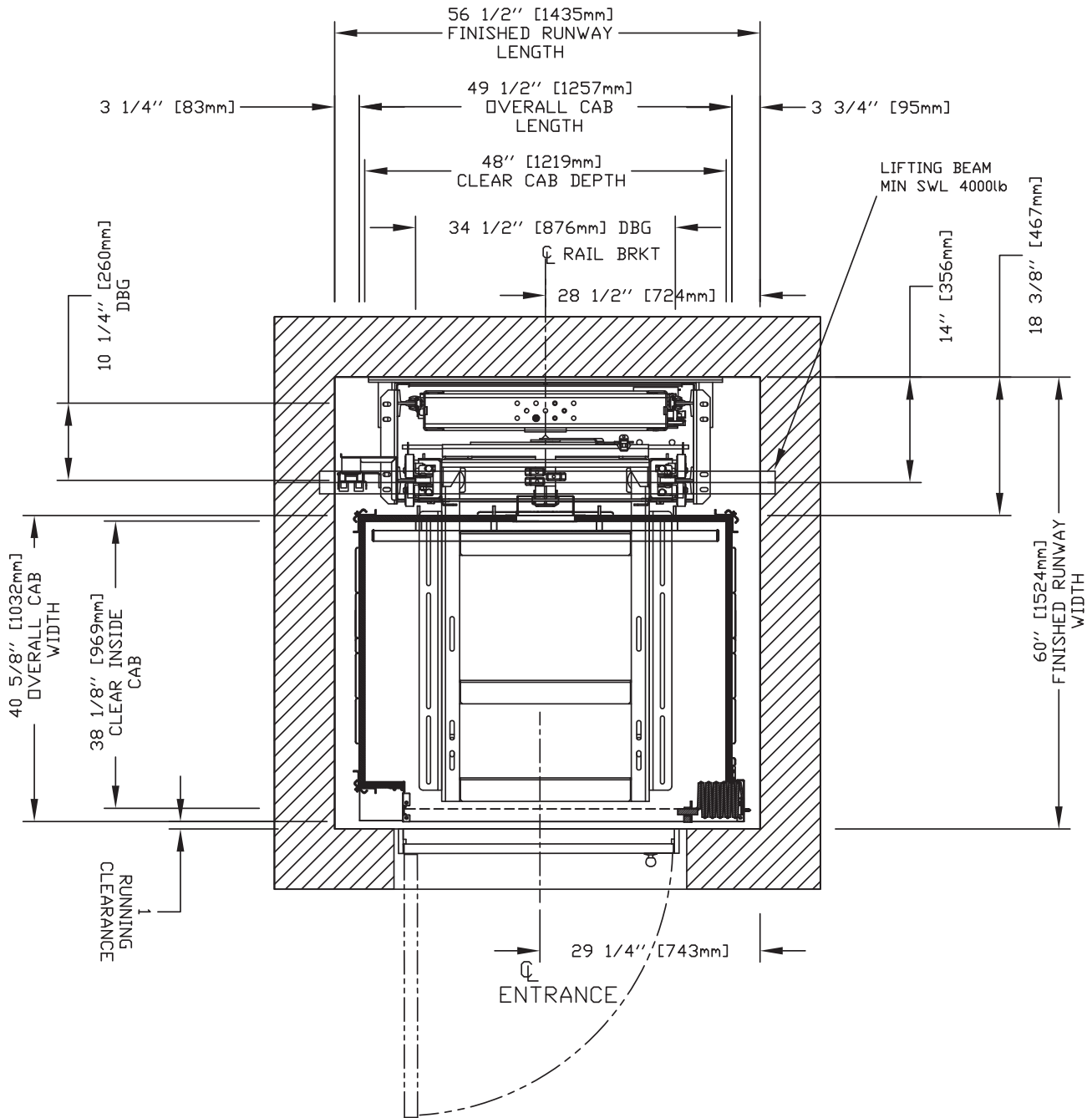


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 5-8 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

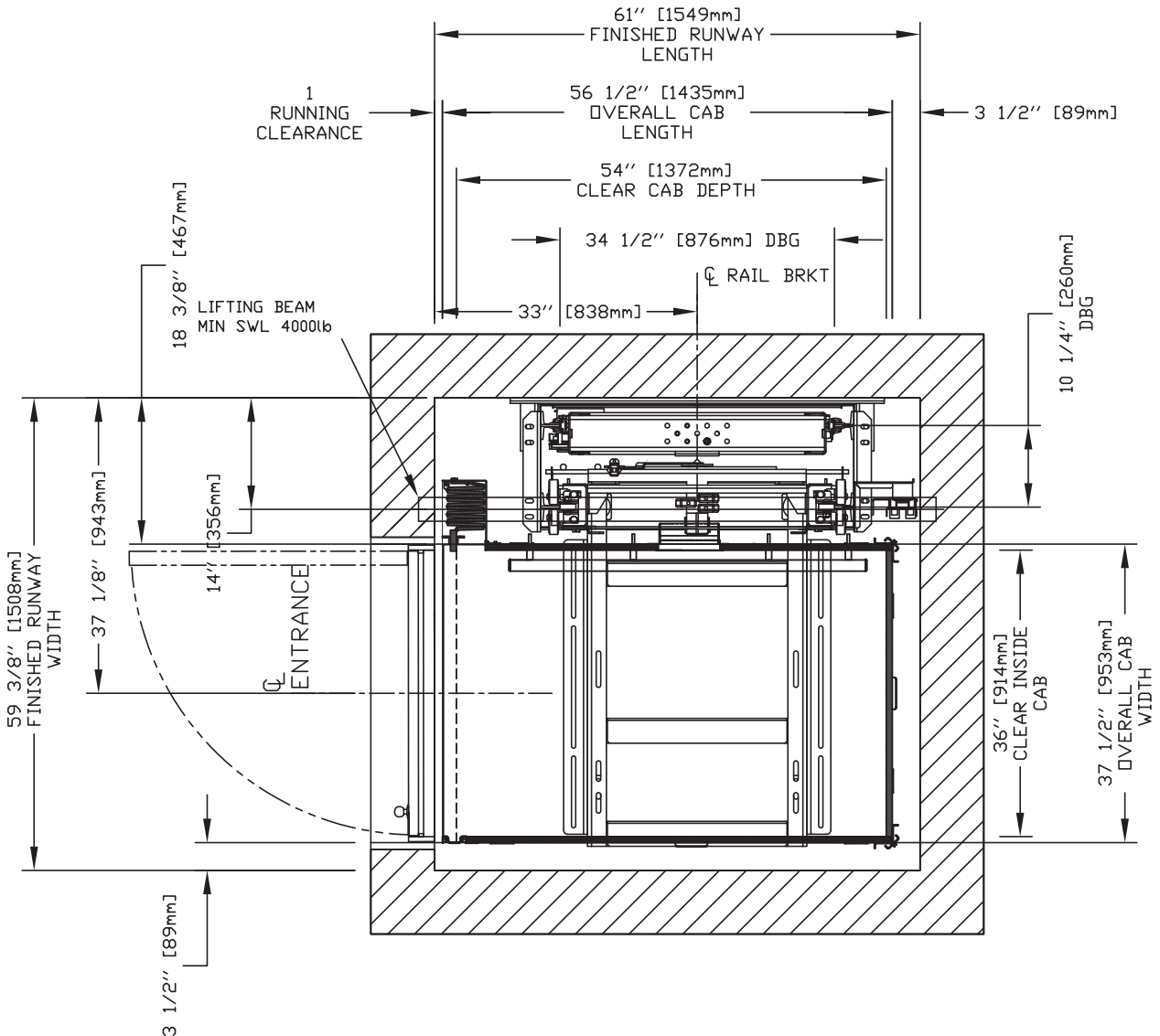


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1L Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

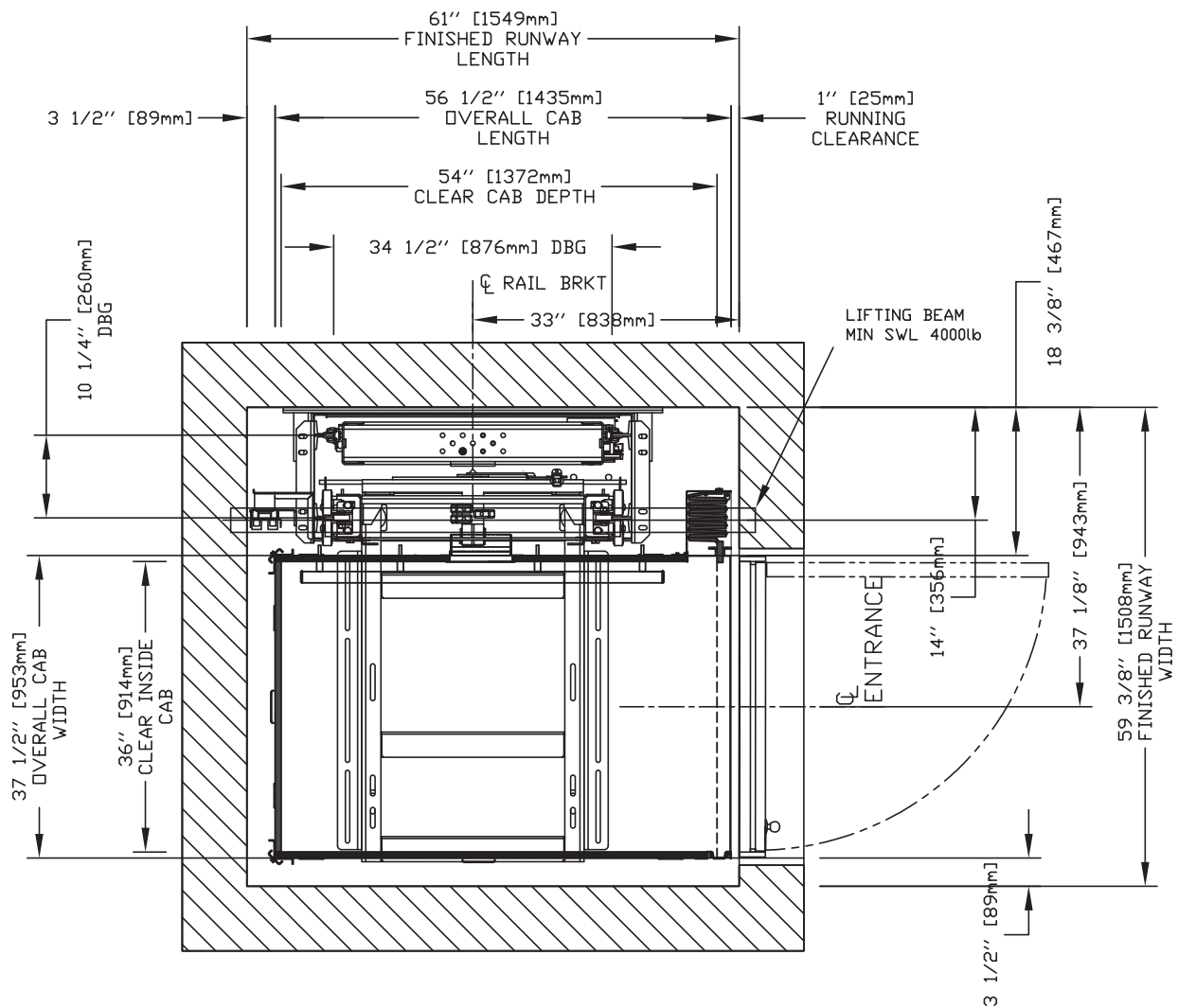


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1R Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

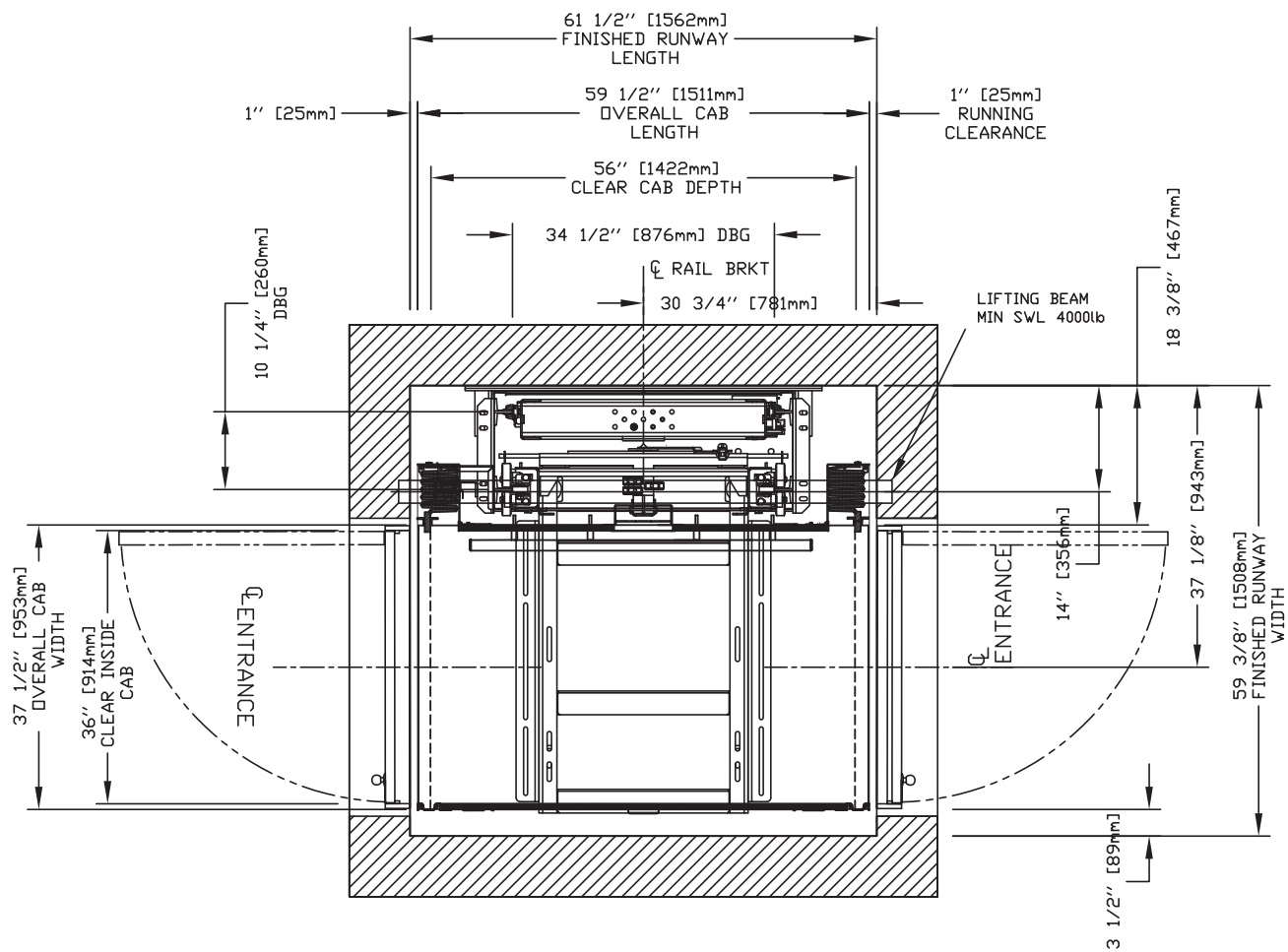


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 2 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

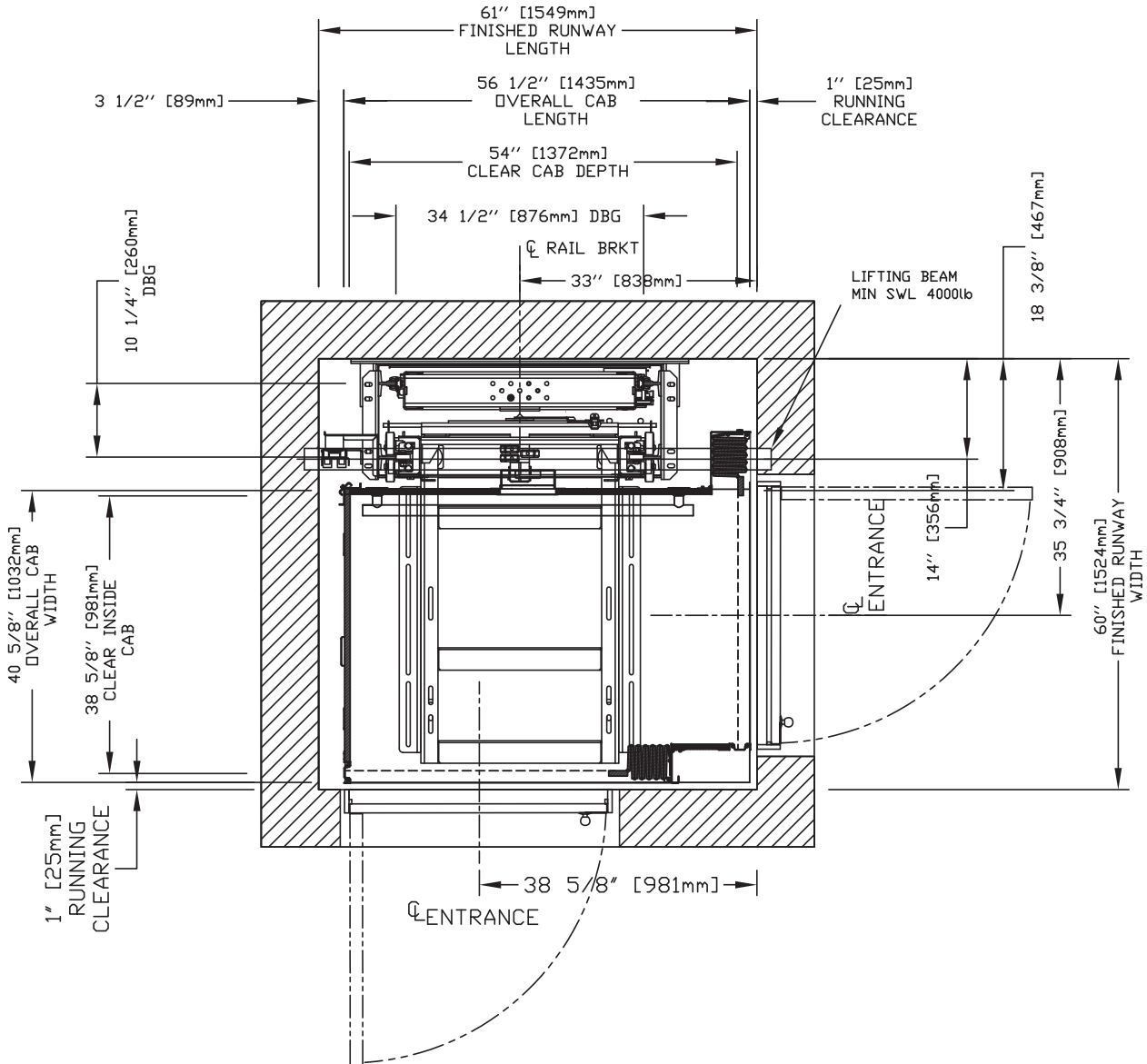


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 3 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

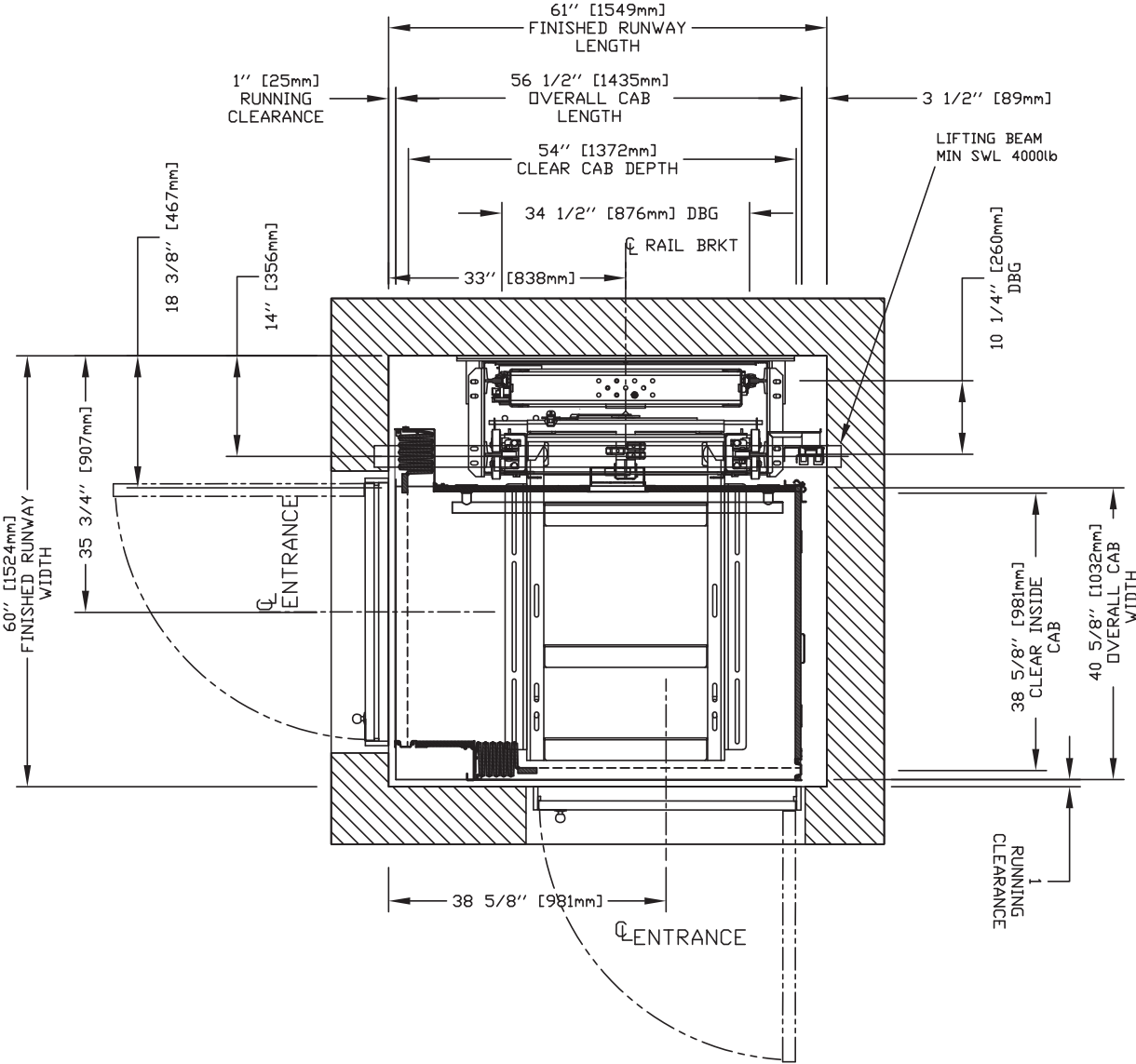


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 4 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

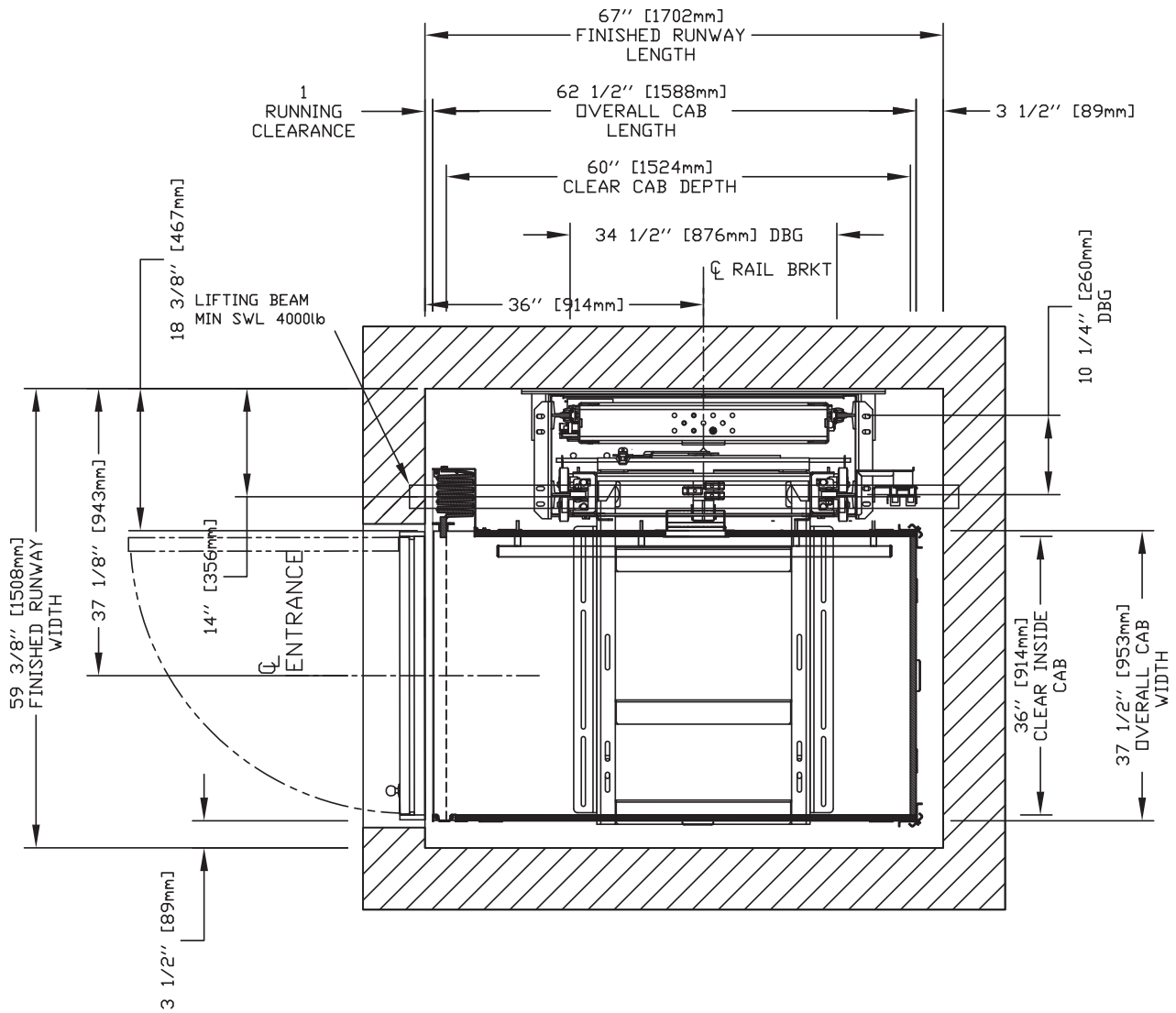


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1L Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

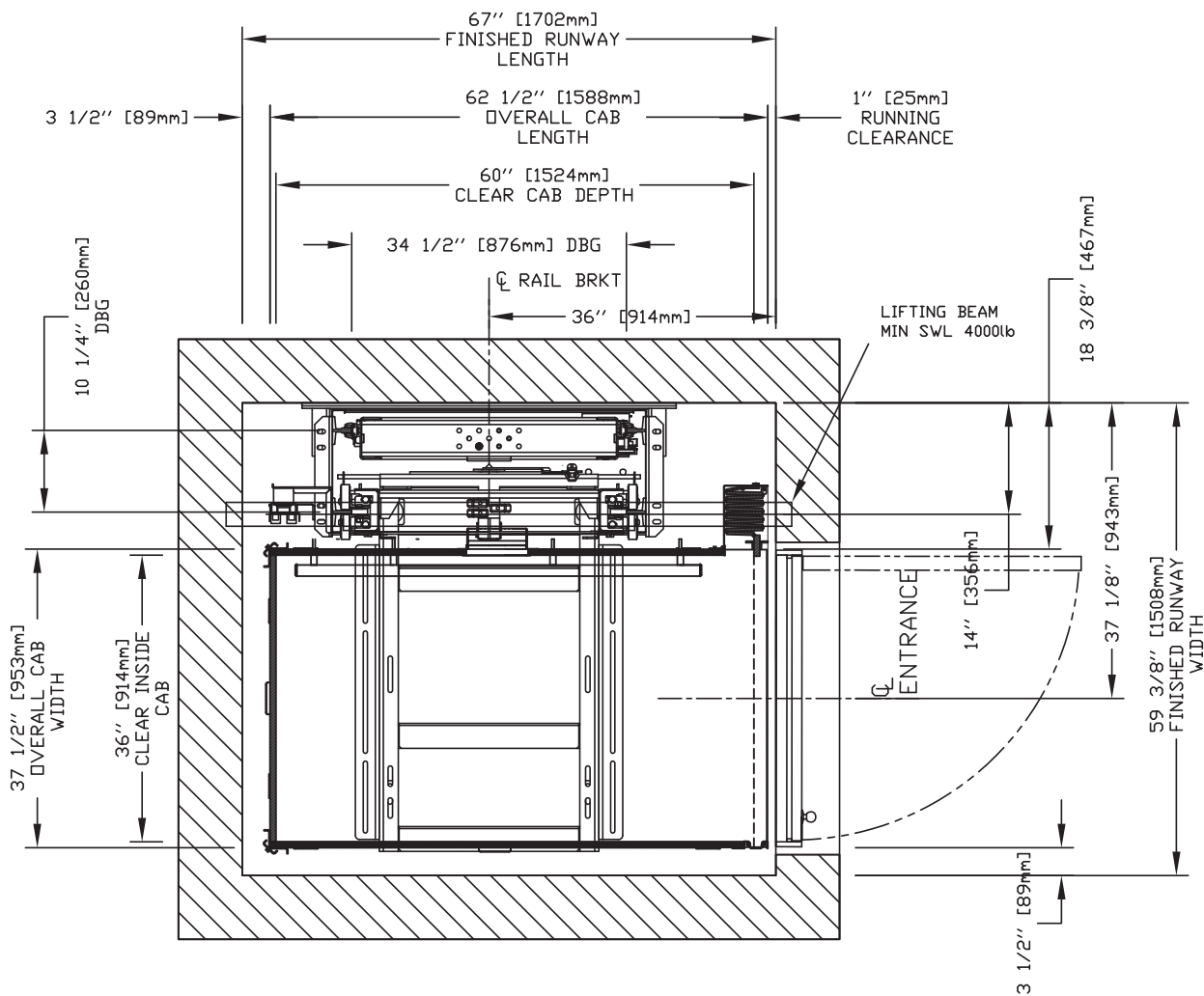


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1R Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

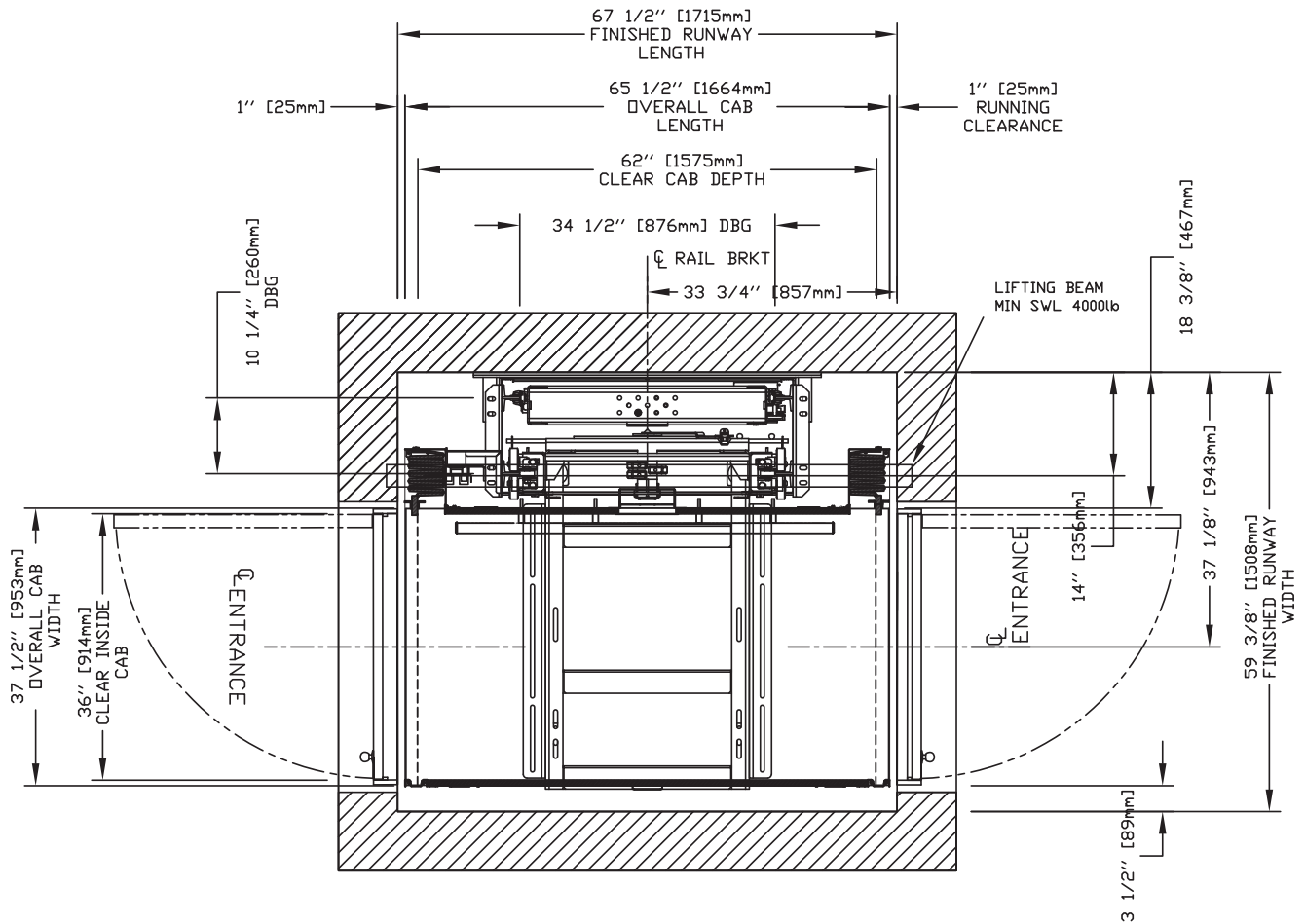


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 2 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

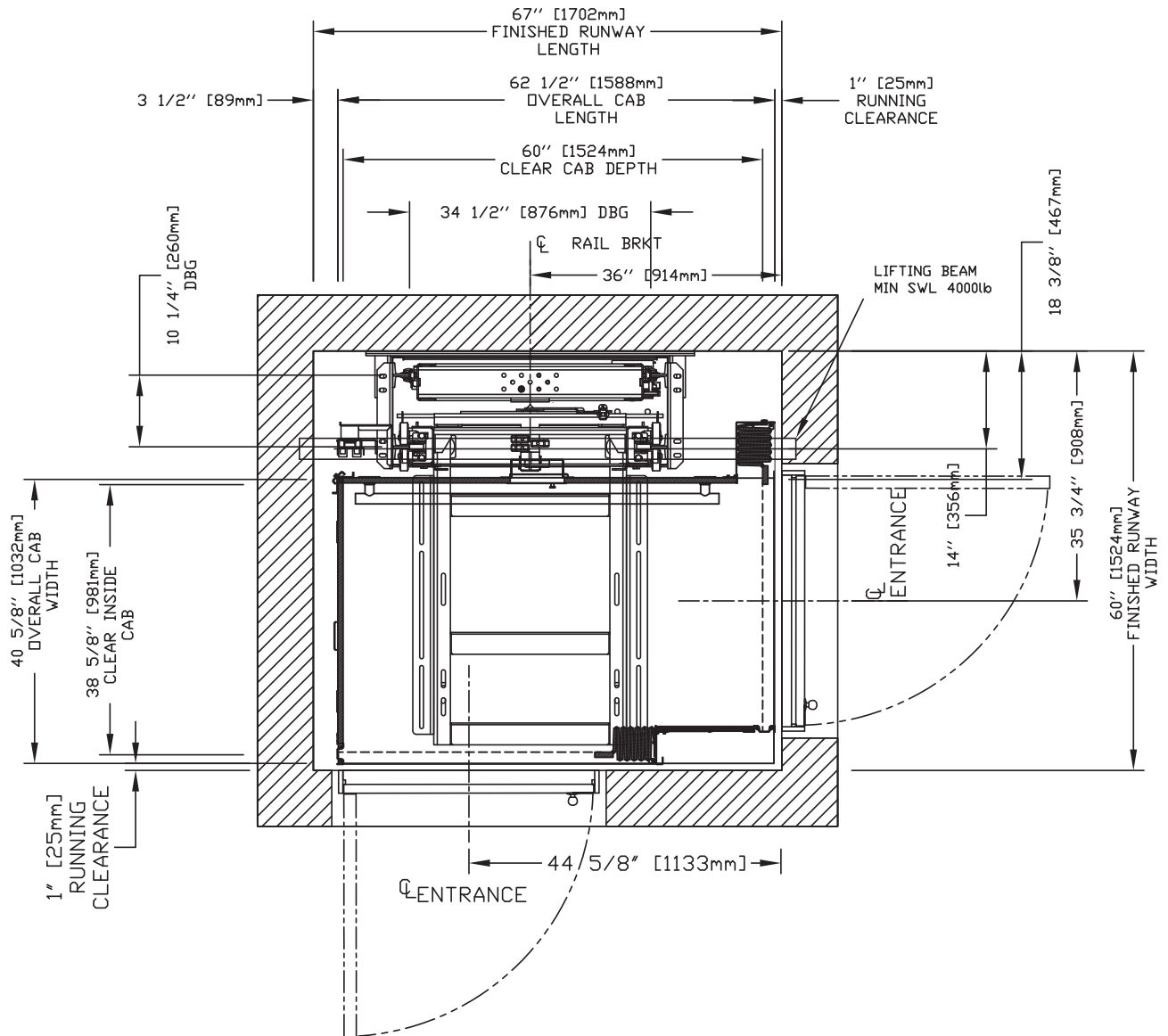


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 3 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

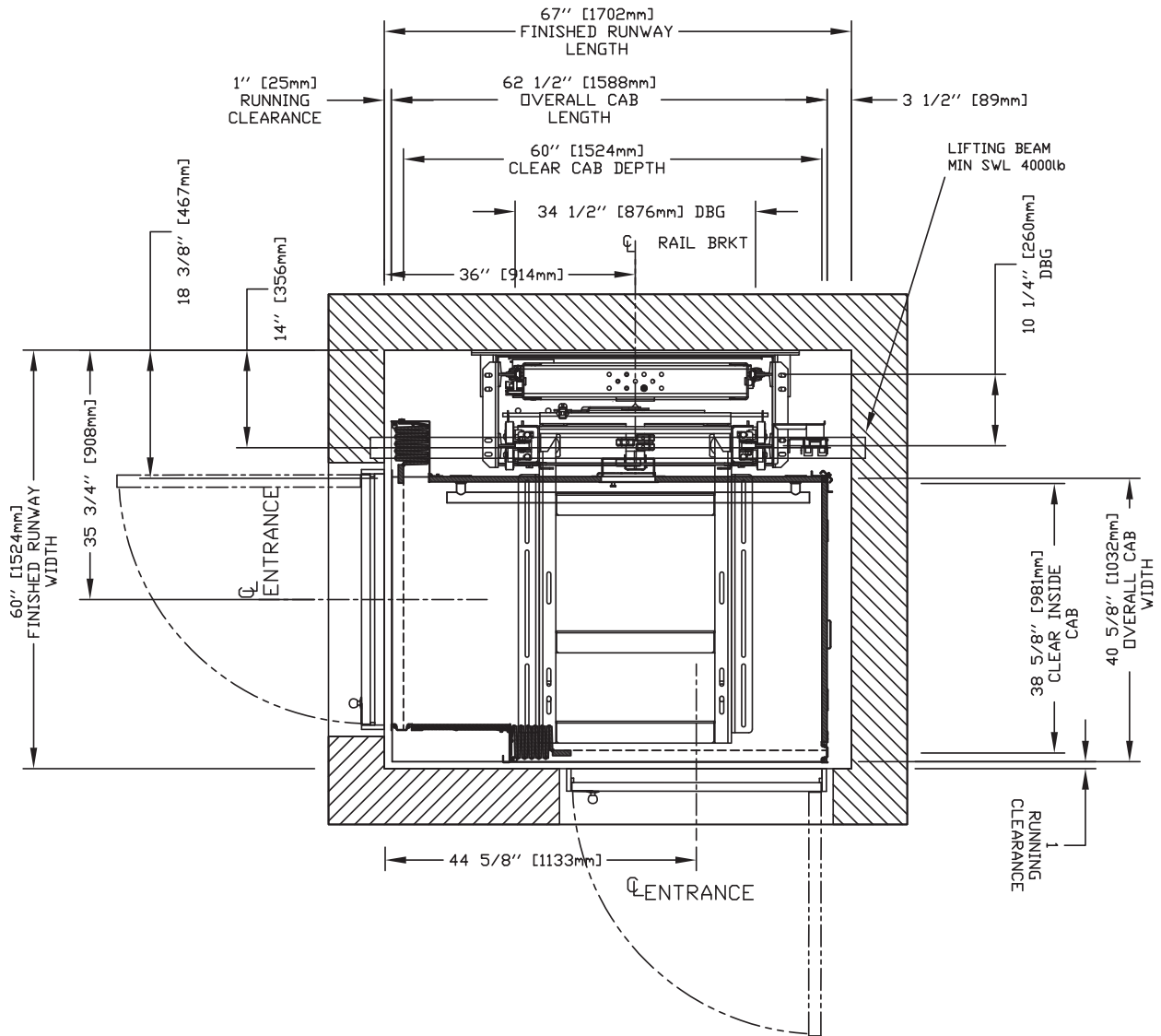


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 4 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

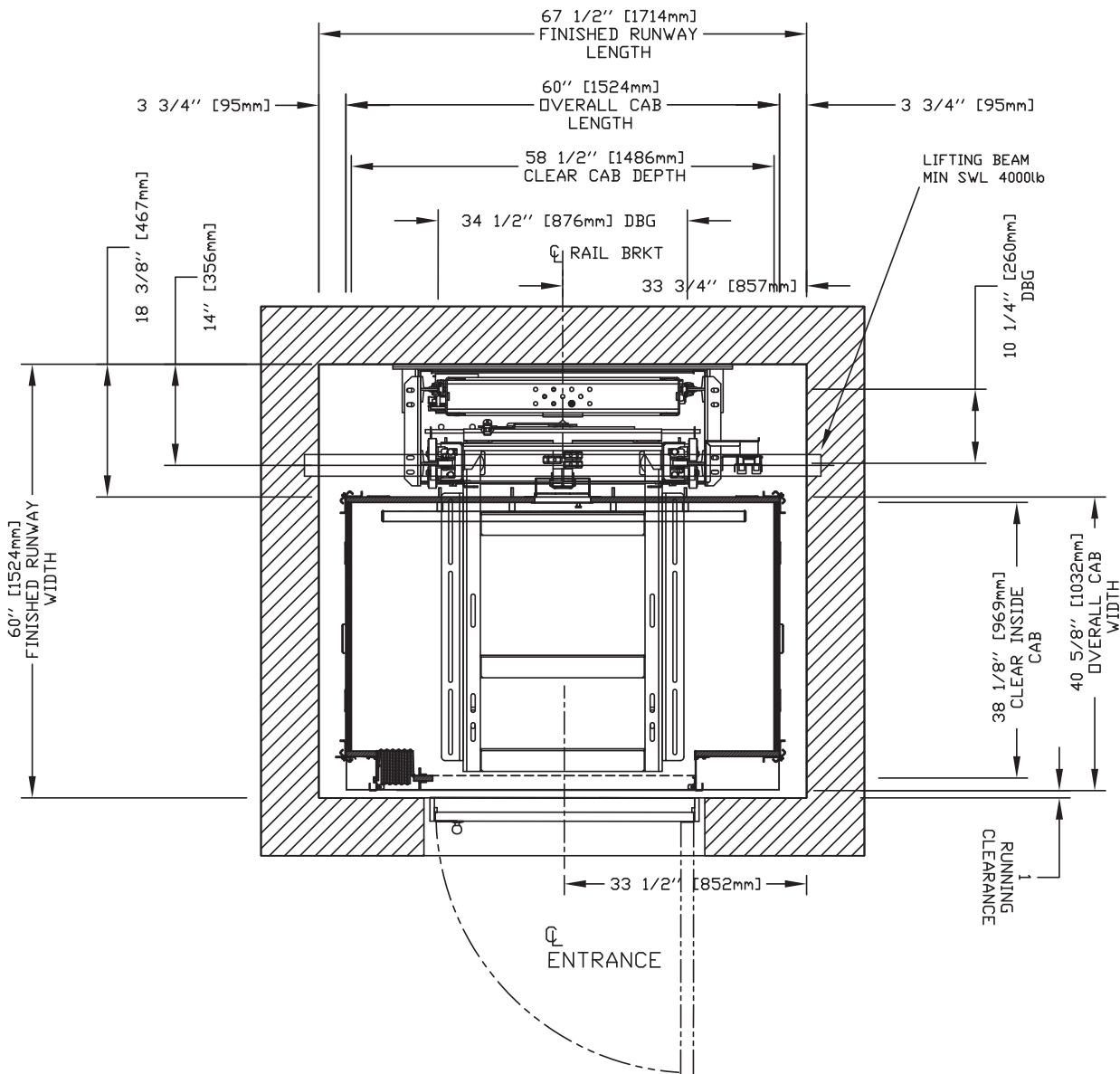


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 5-3 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

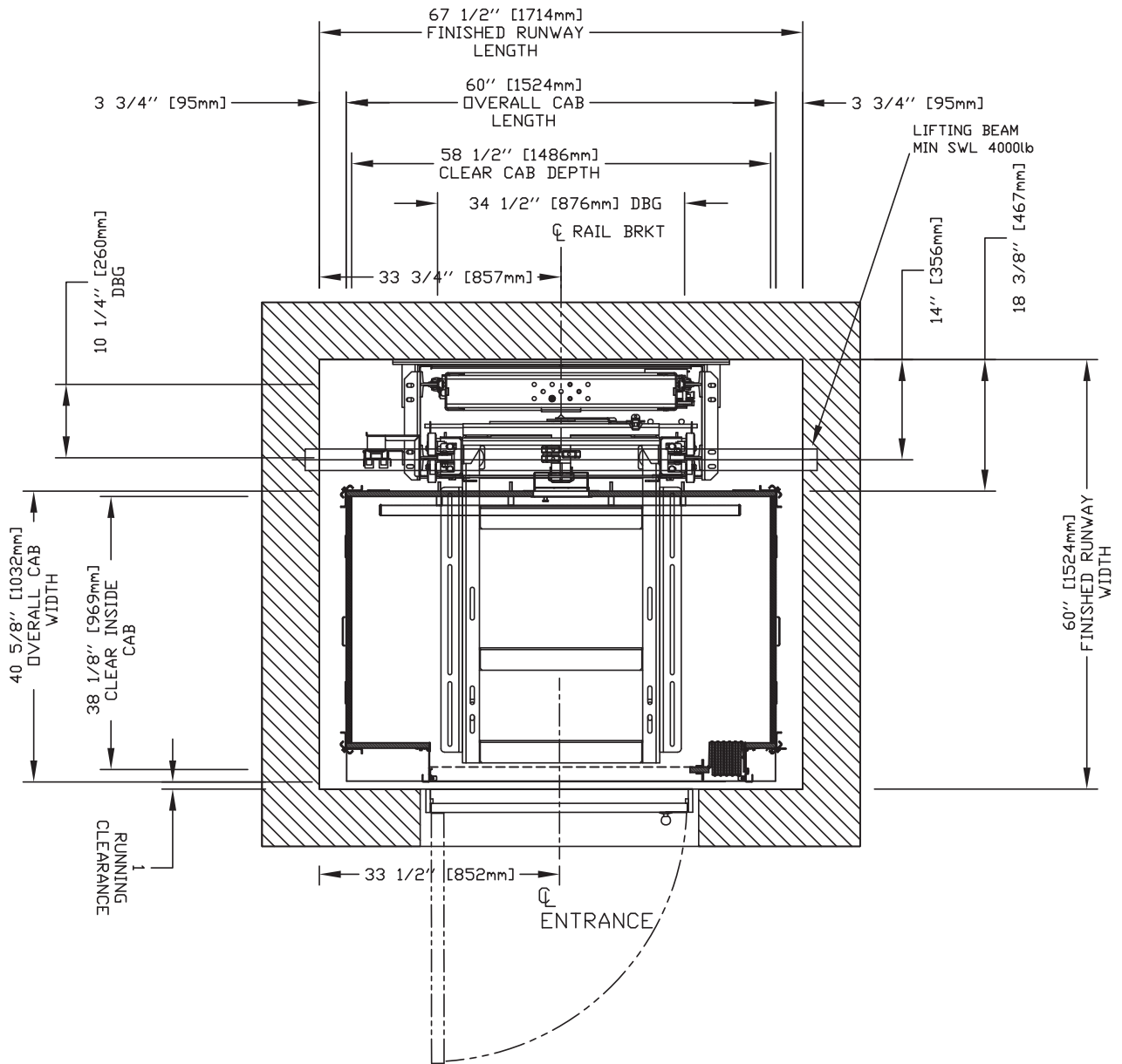


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 5-4 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

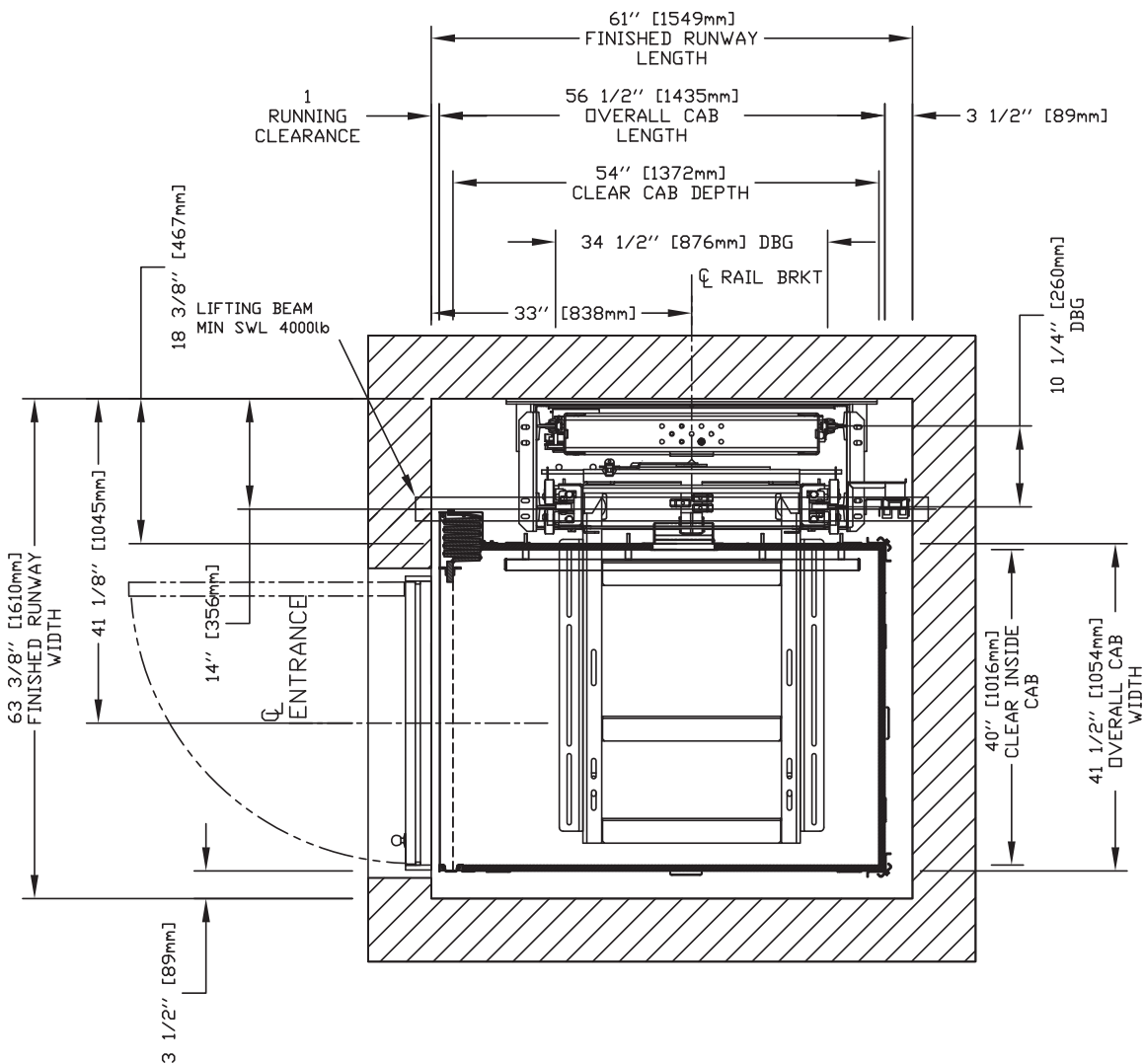


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1L Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

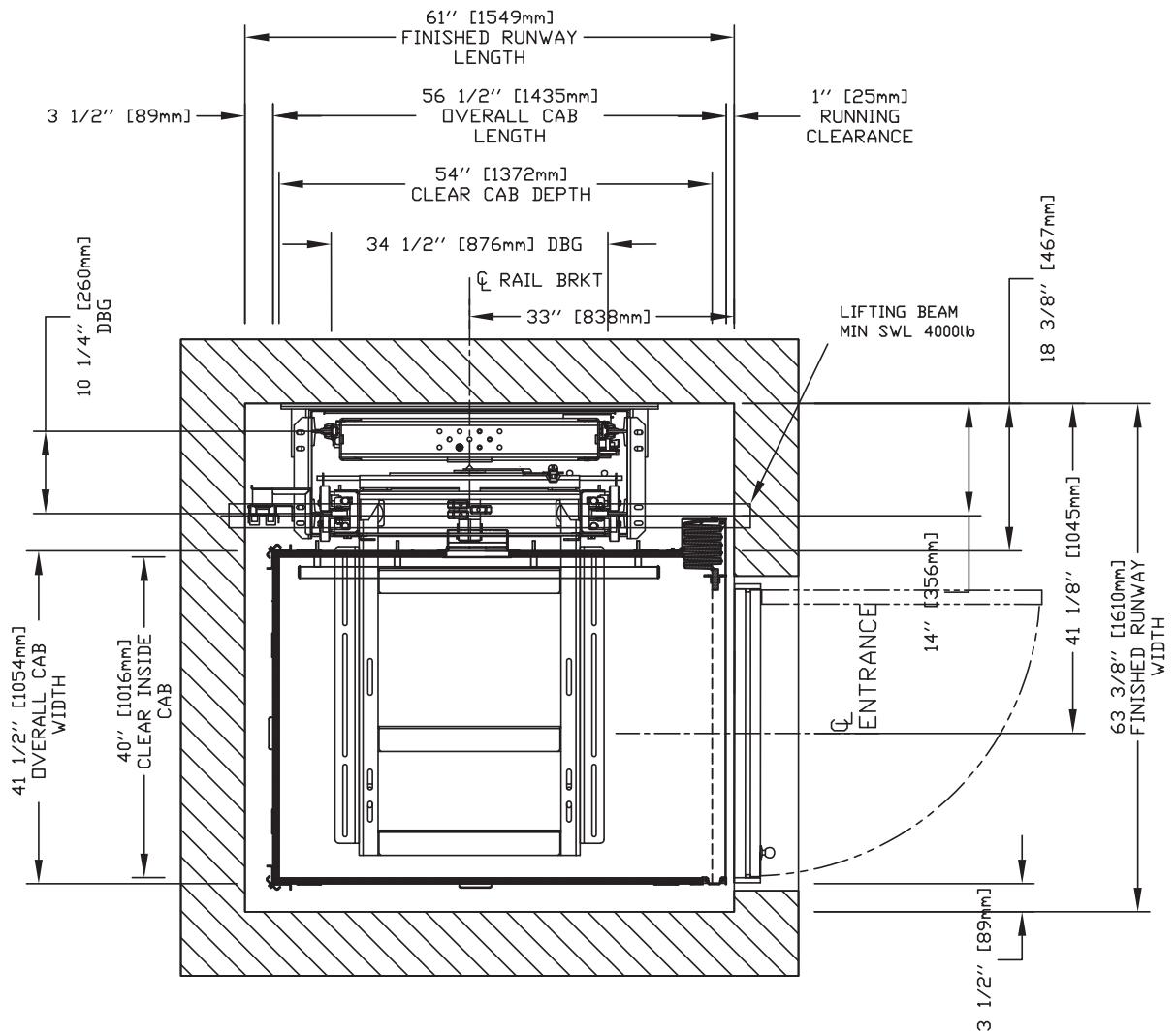


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1R Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

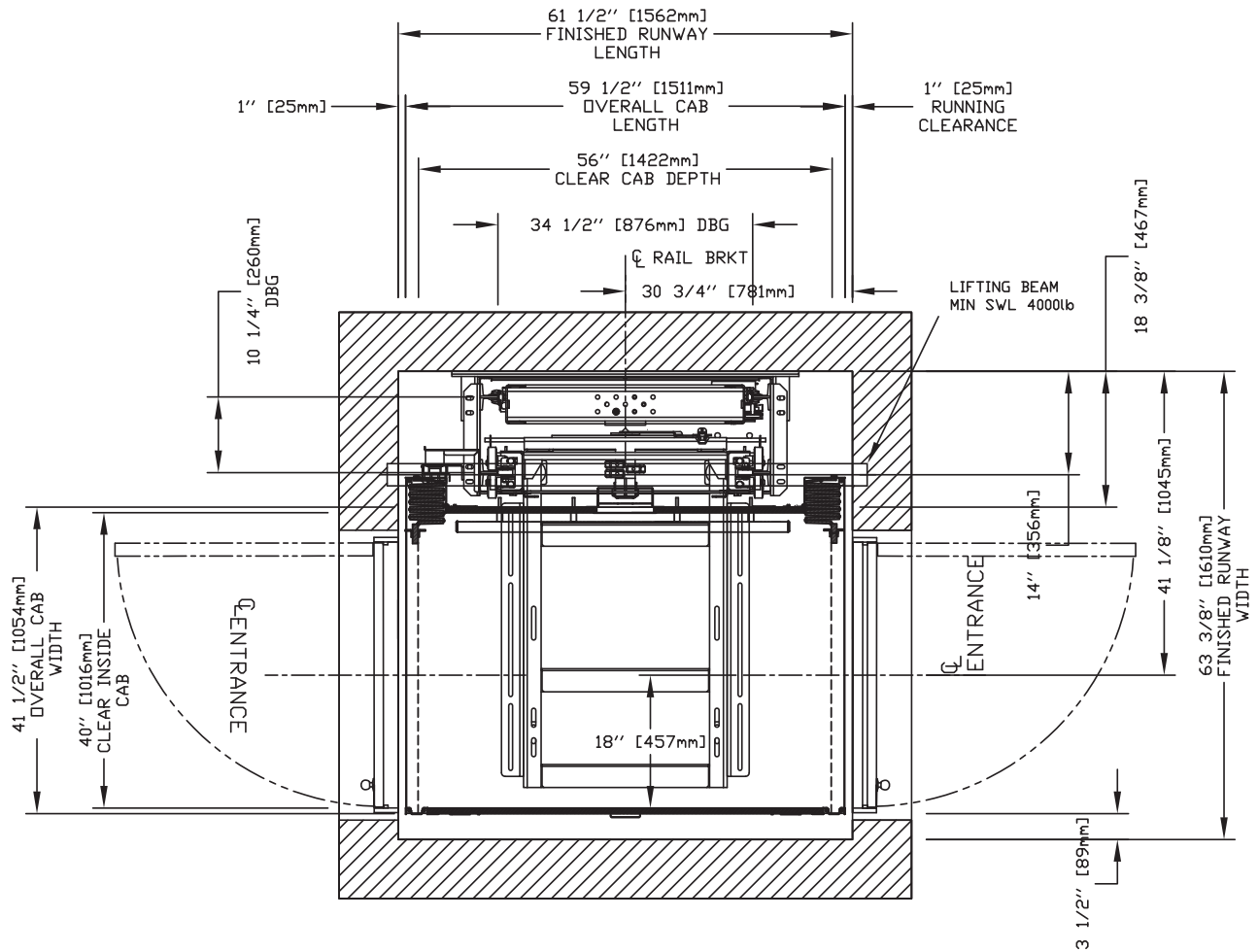


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 2 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

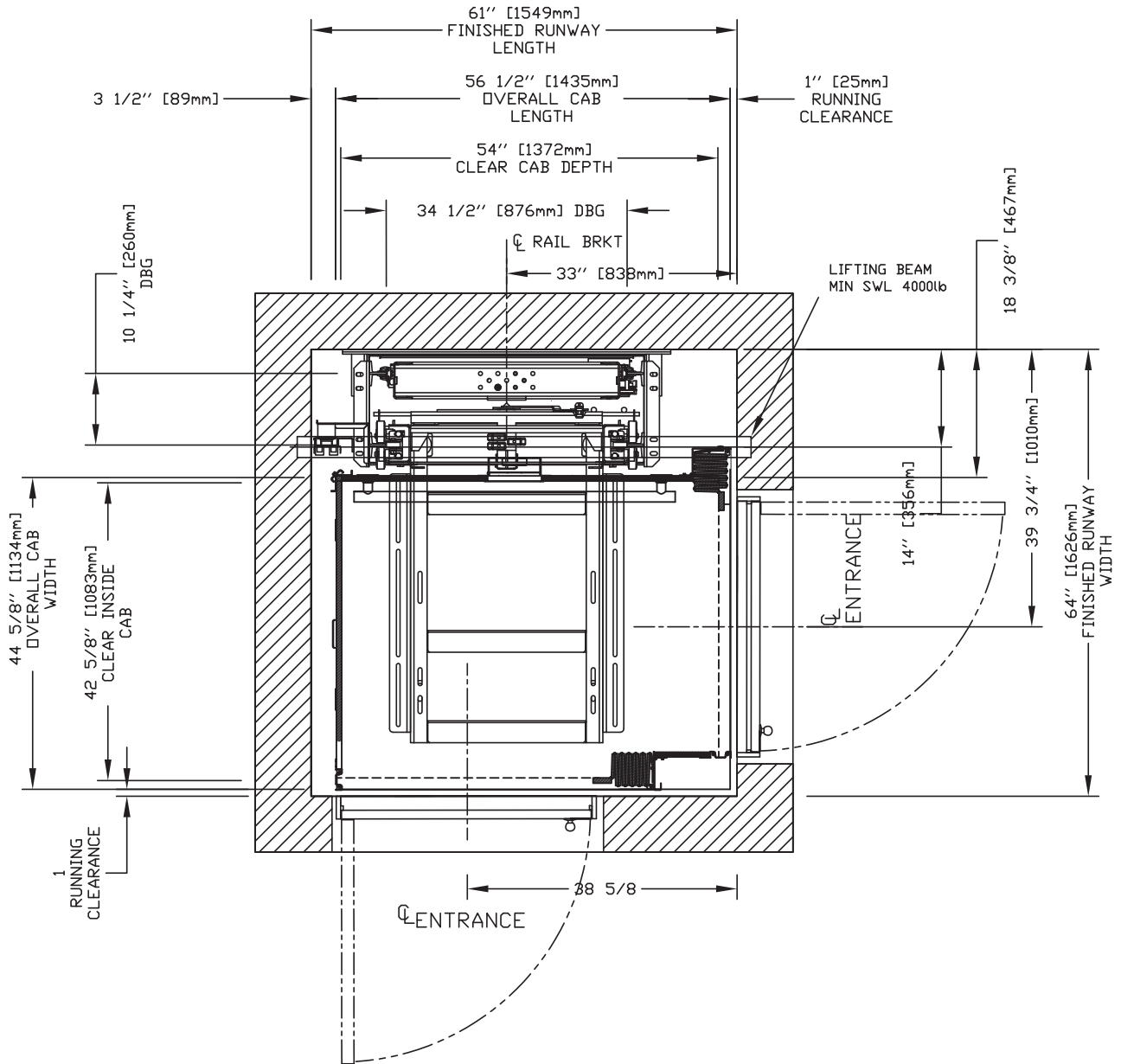


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 3 Cab, Panel-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

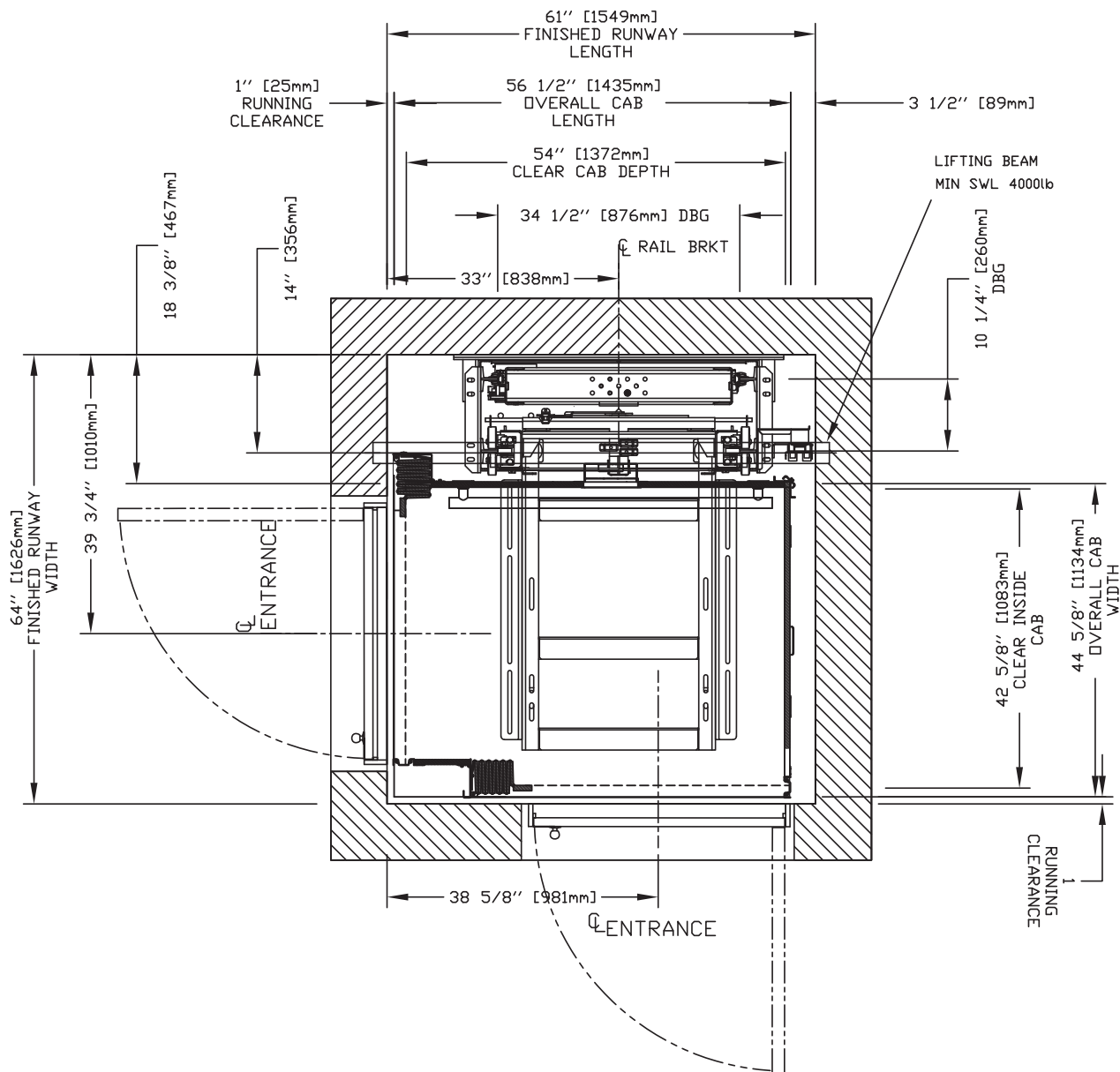


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 4 Cab, Panel-fold Doors

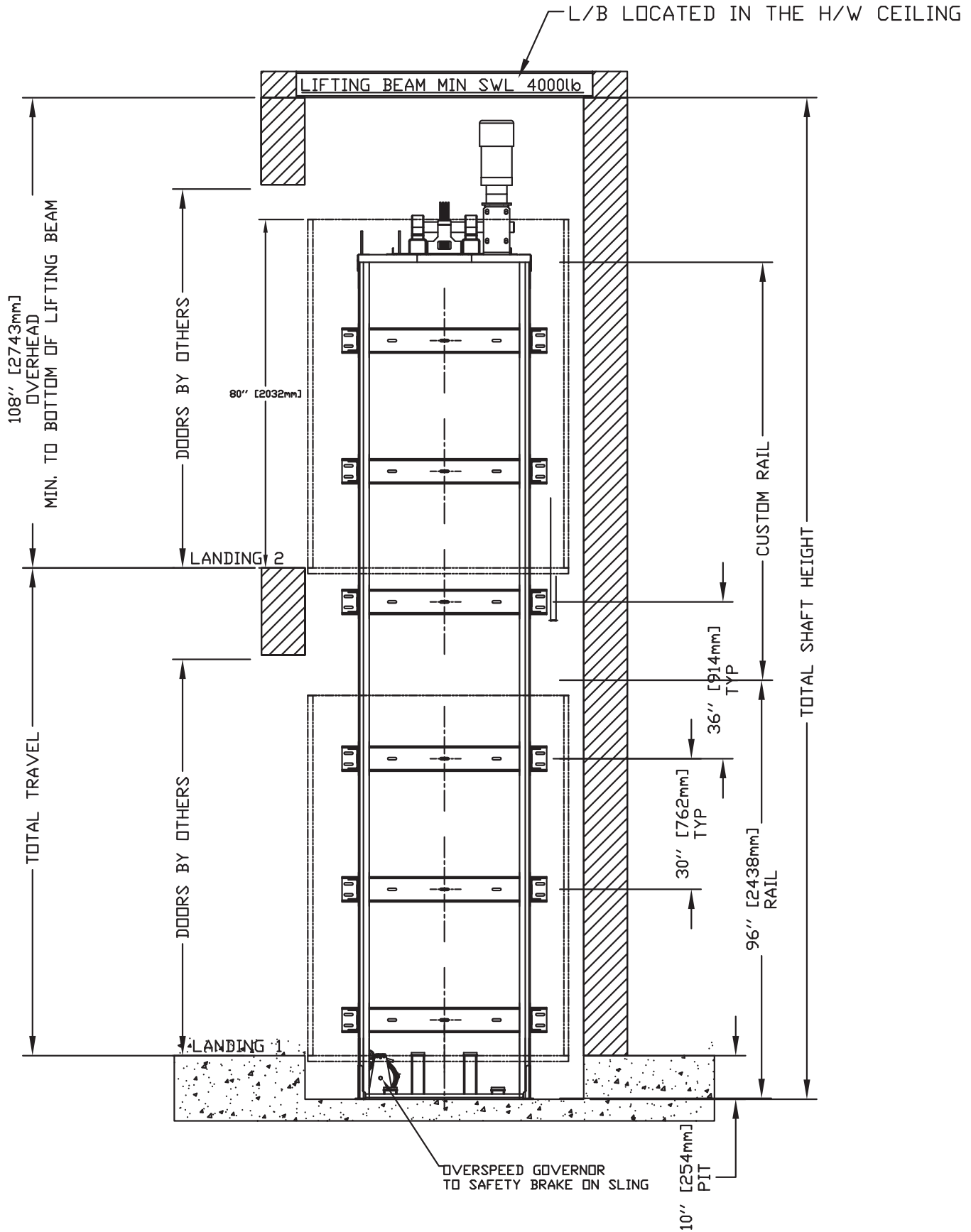
IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.



NOTE: The cab dimensions provided are based on a PLAM cab.

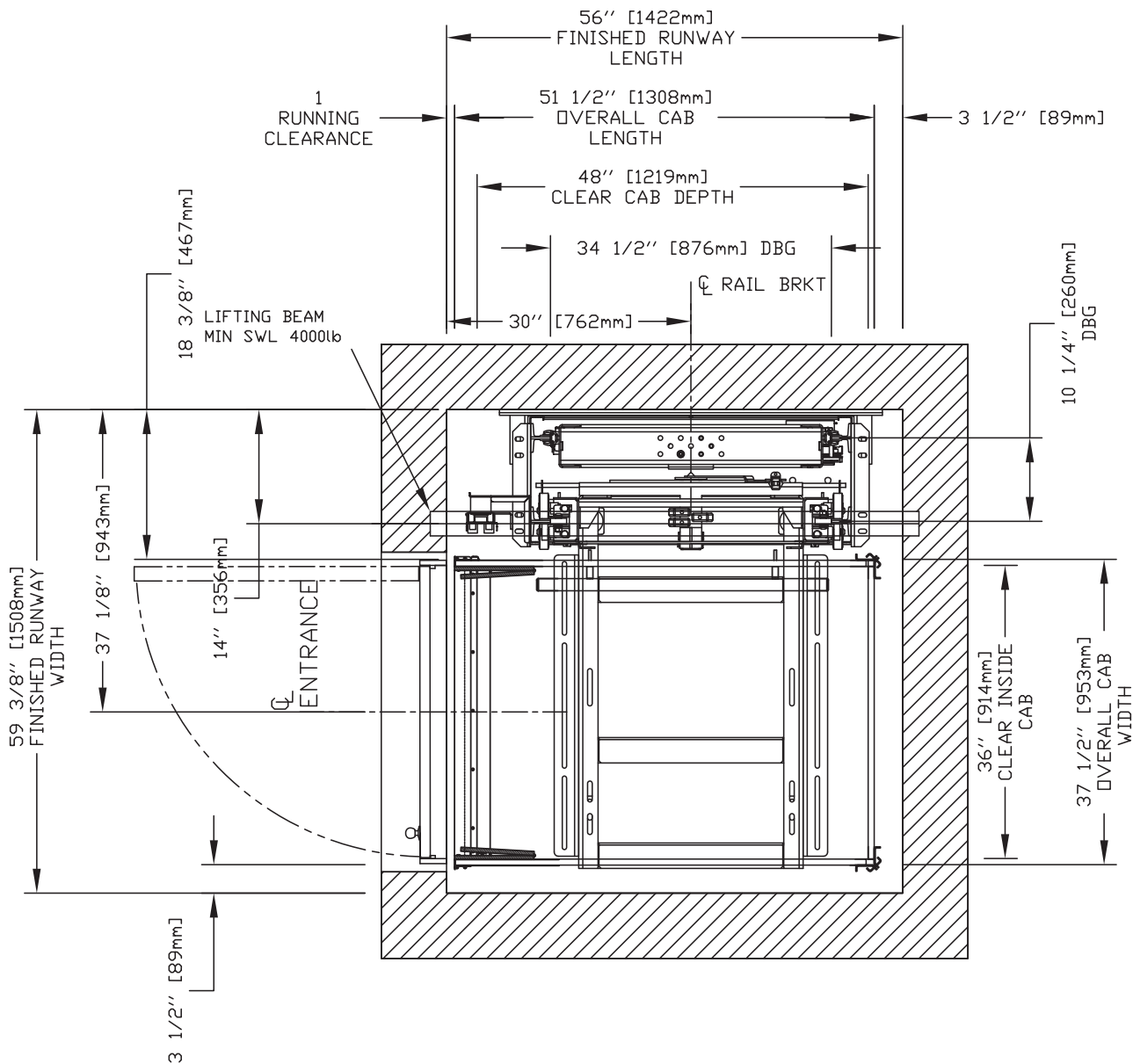
Sample Elevation View, Bi-fold Doors



36" x 48" Type 1L Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

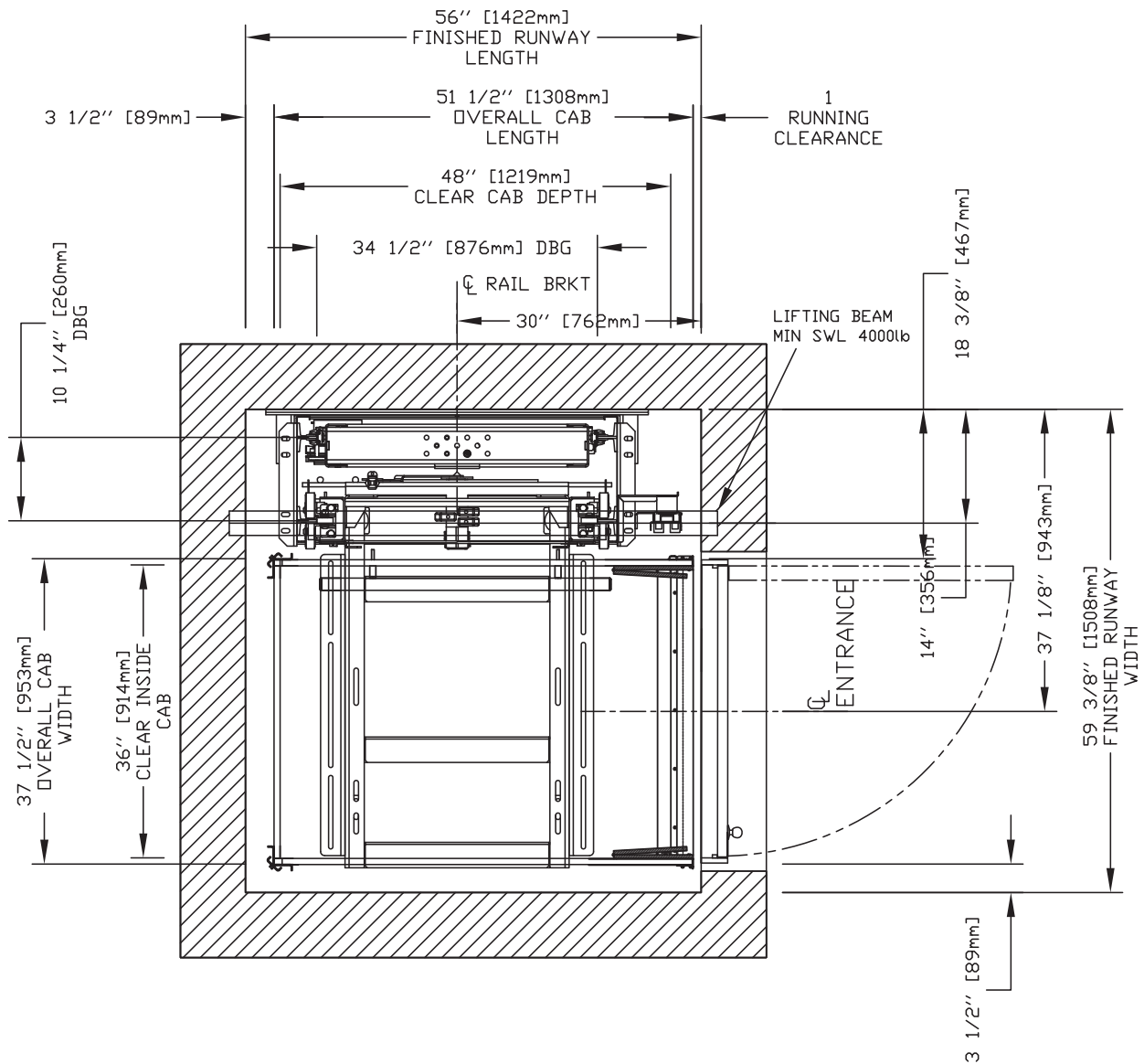


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 1R Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

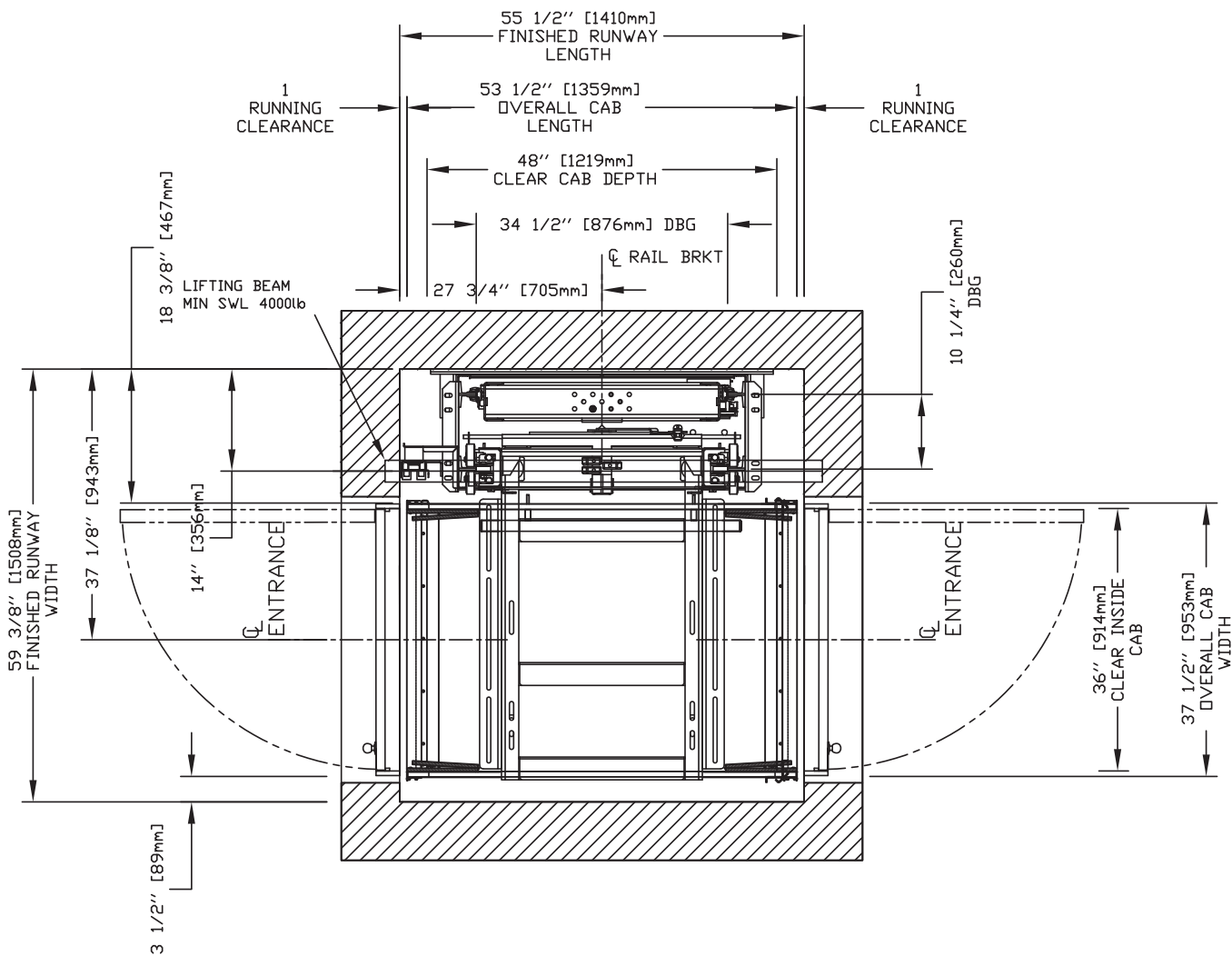


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 2 Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

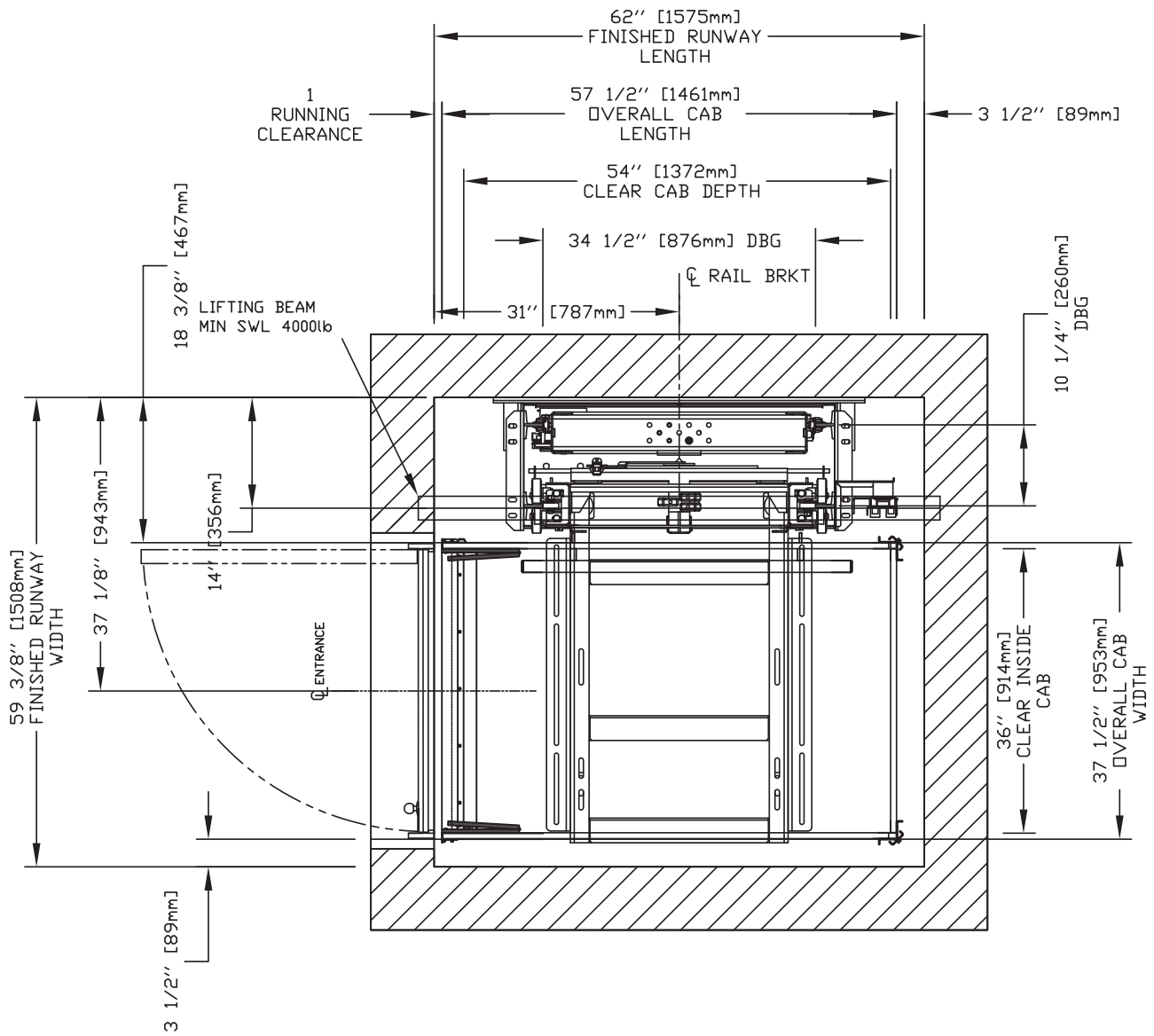


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1L Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

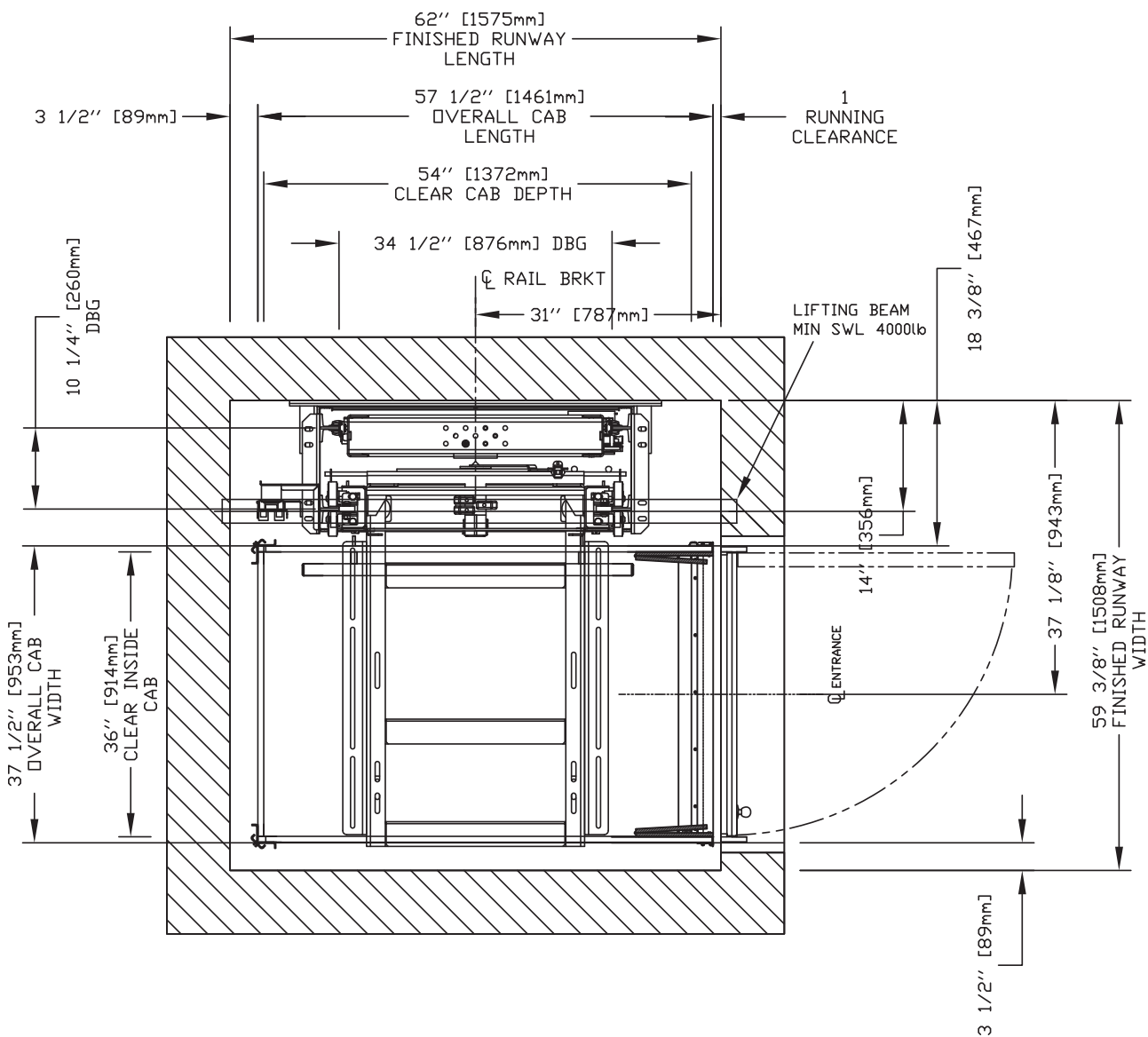


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1R Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

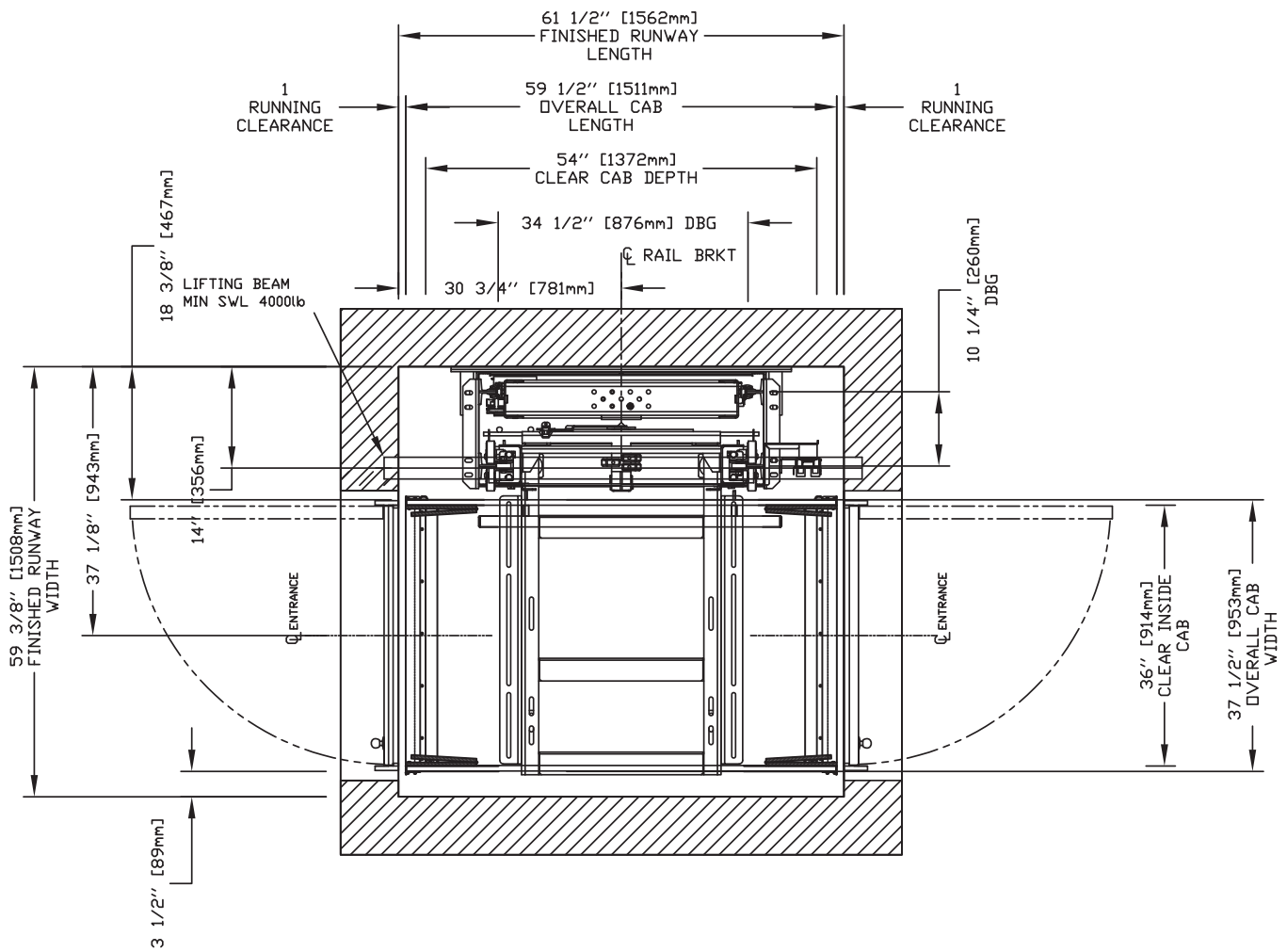


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 2 Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

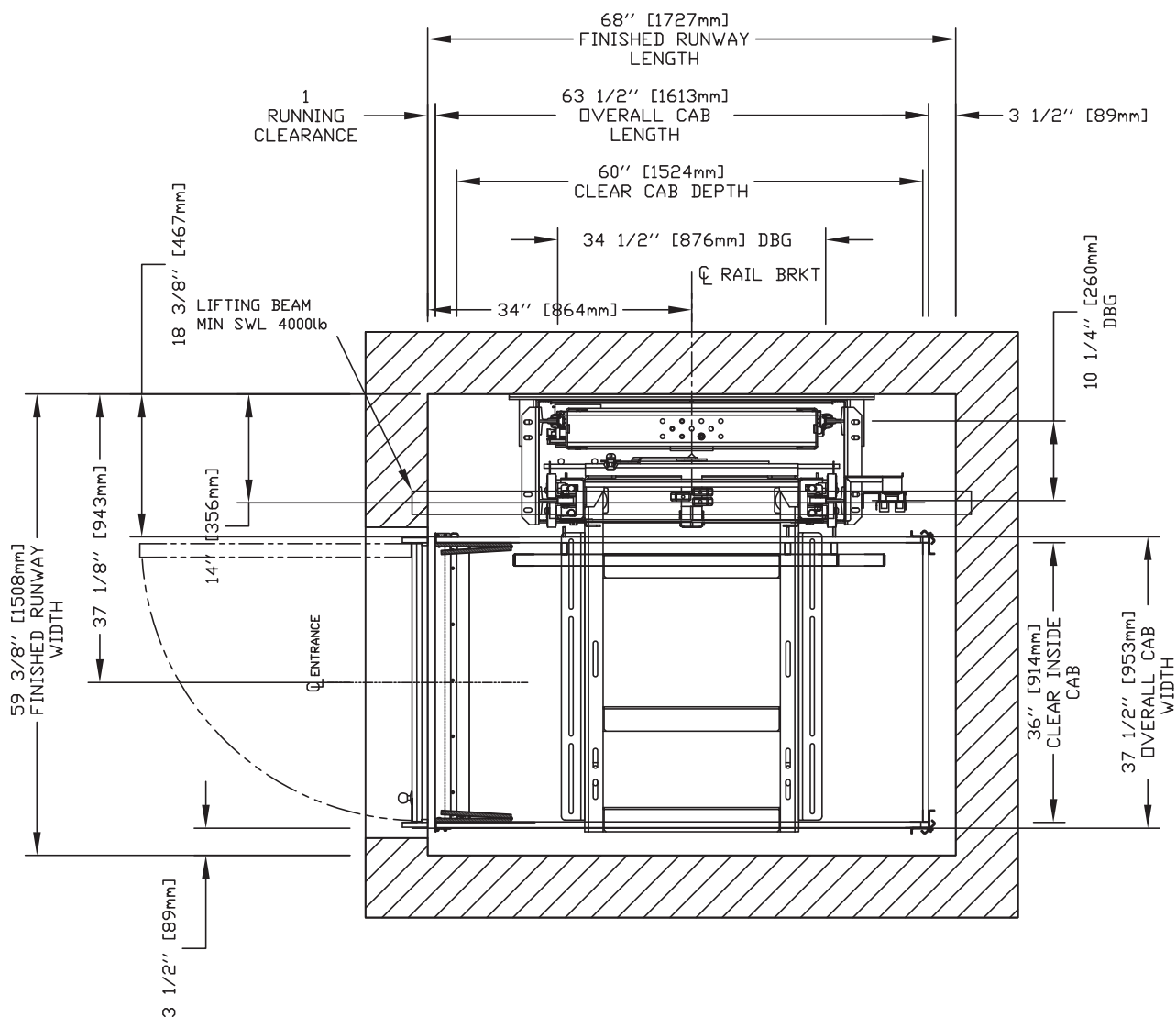


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1L Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

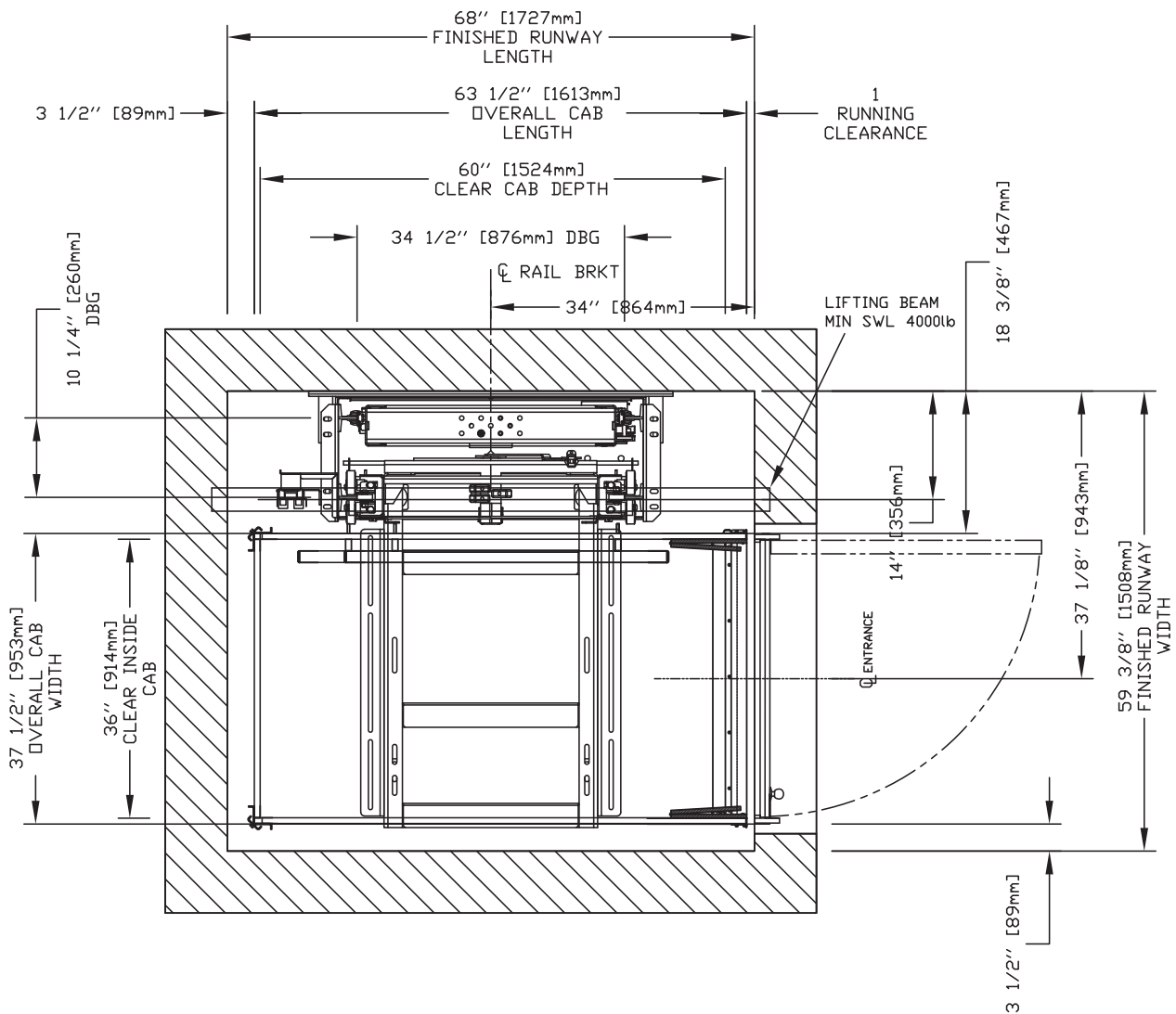


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1R Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

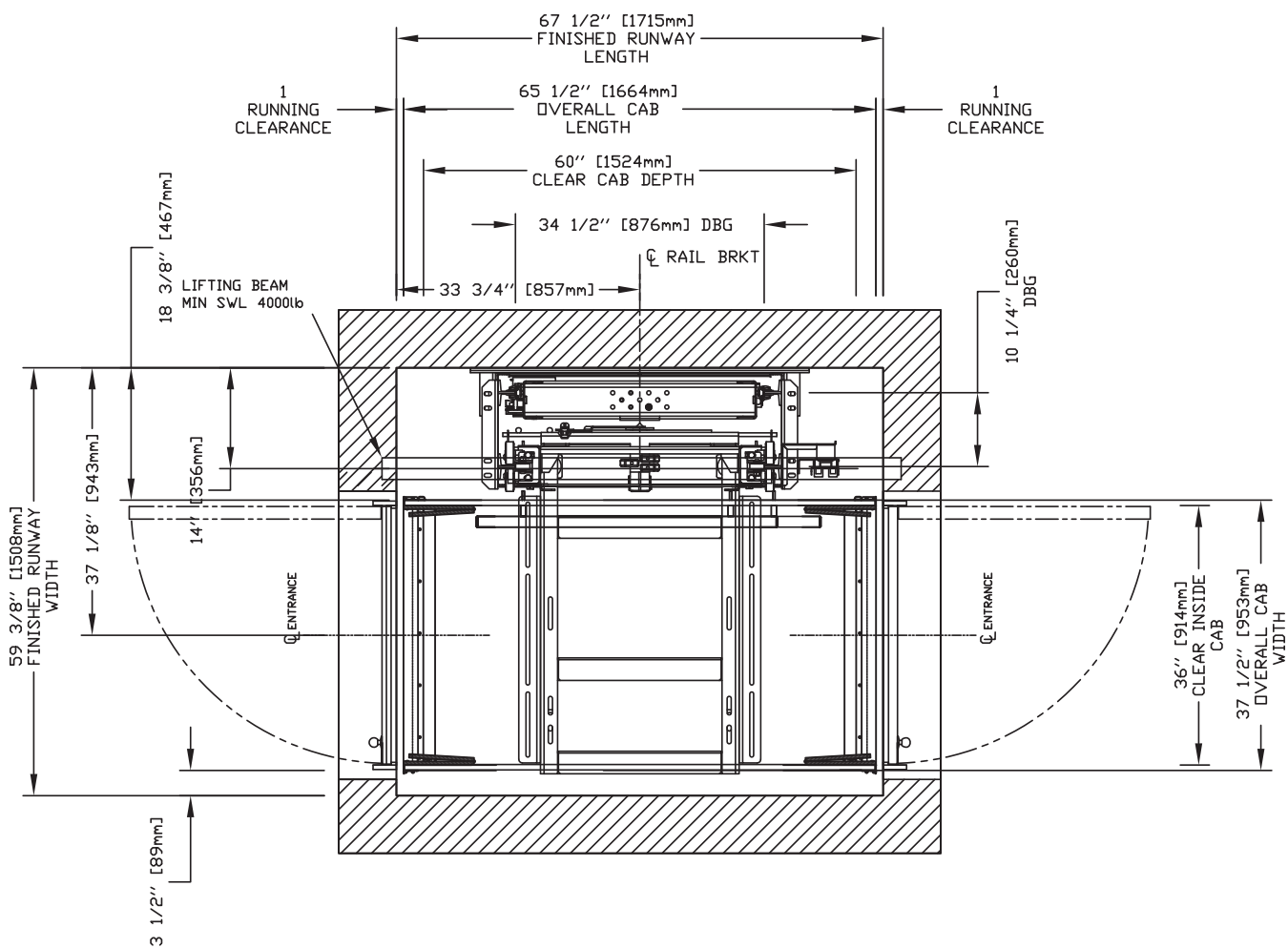


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 2 Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

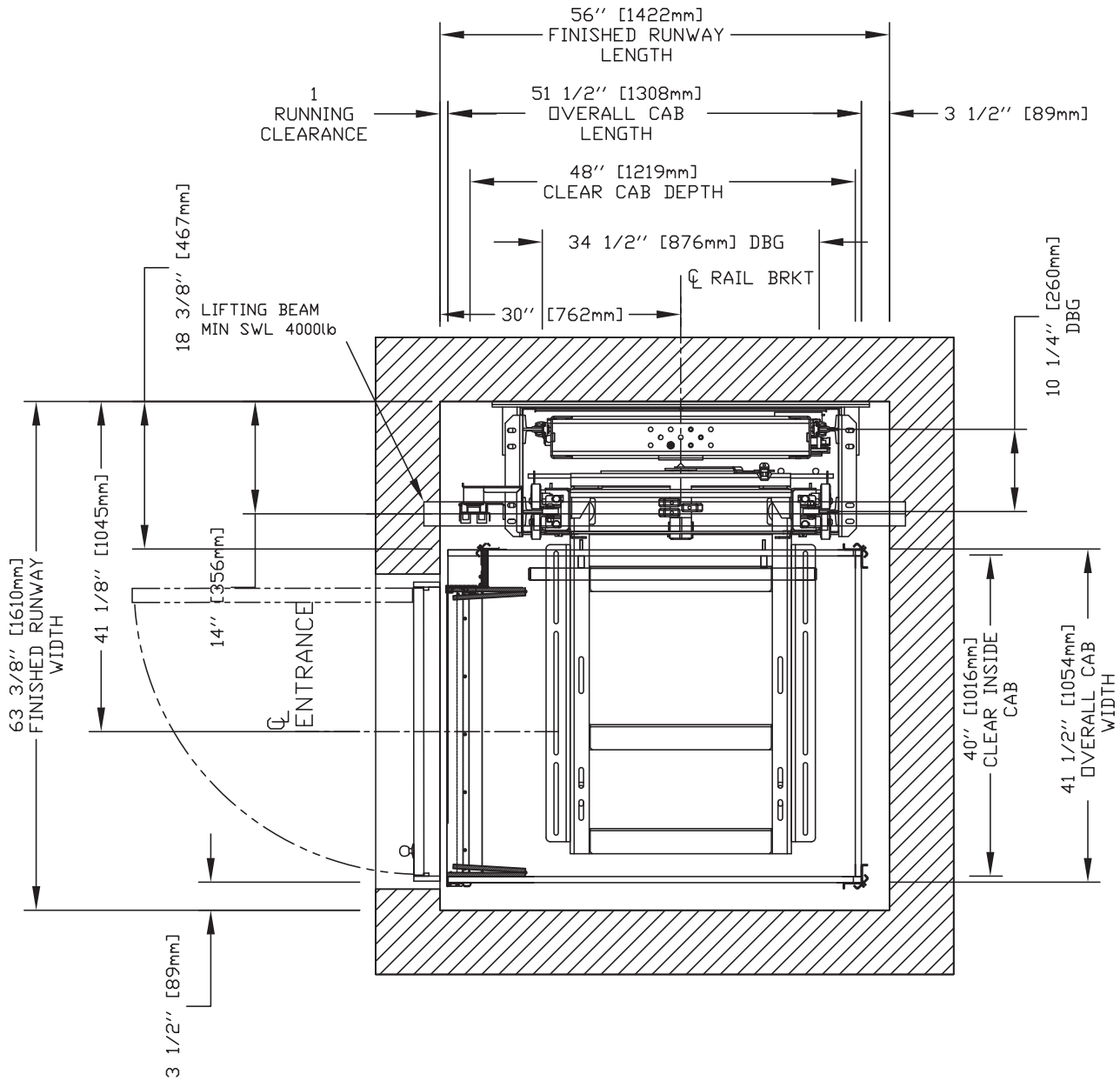


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 48" Type 1L Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

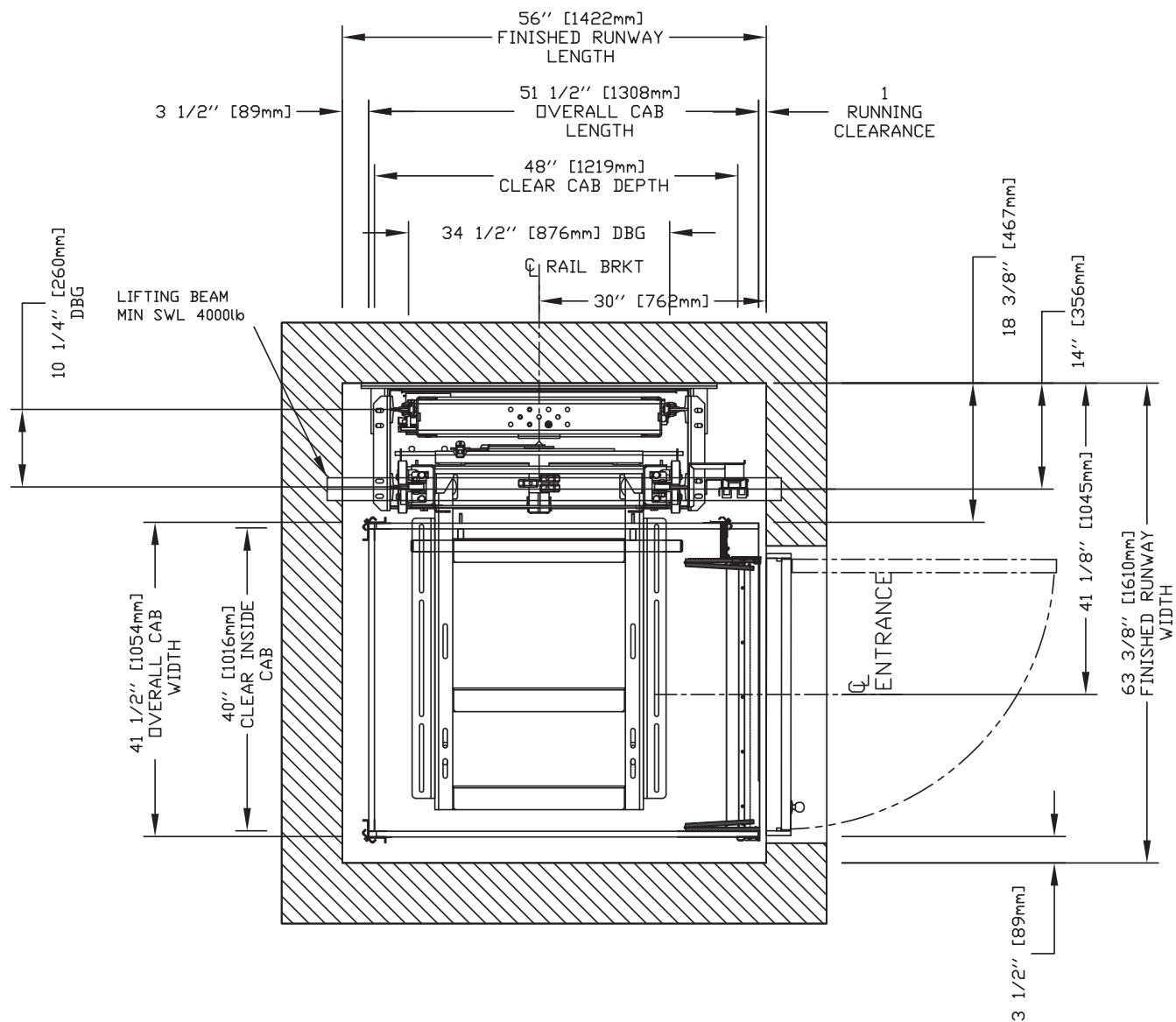


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 48" Type 1R Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

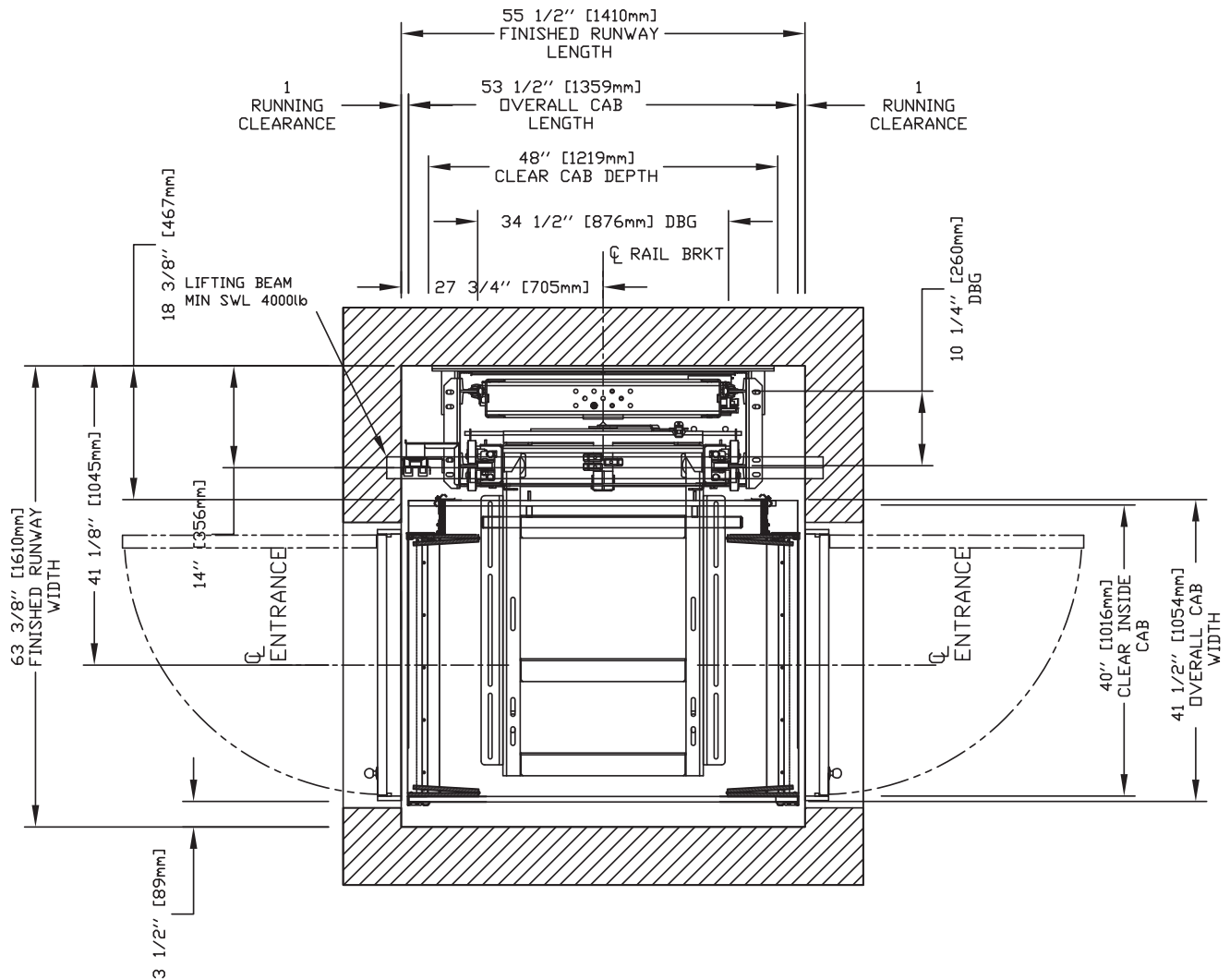


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 48" Type 2 Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

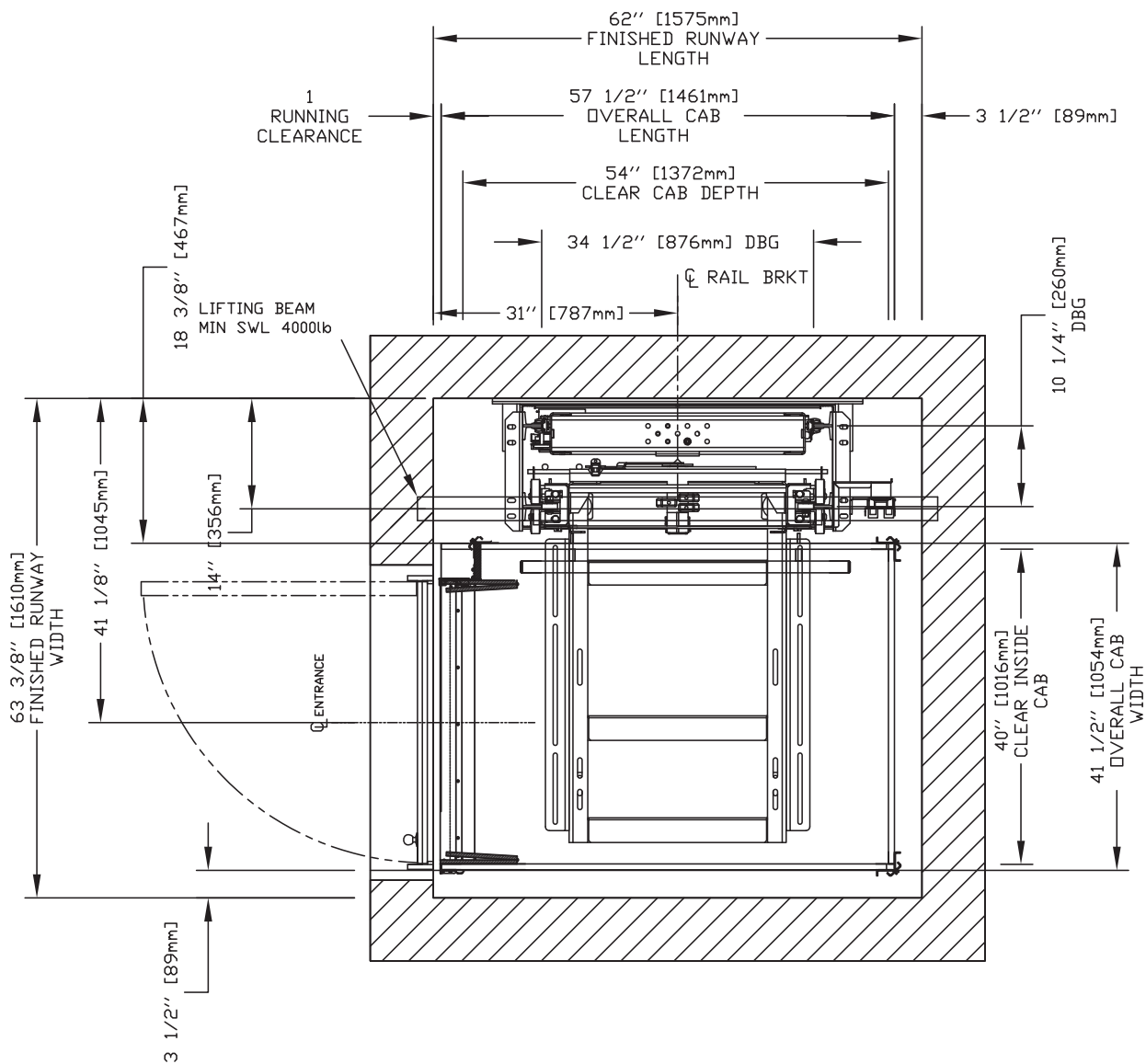


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1L Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

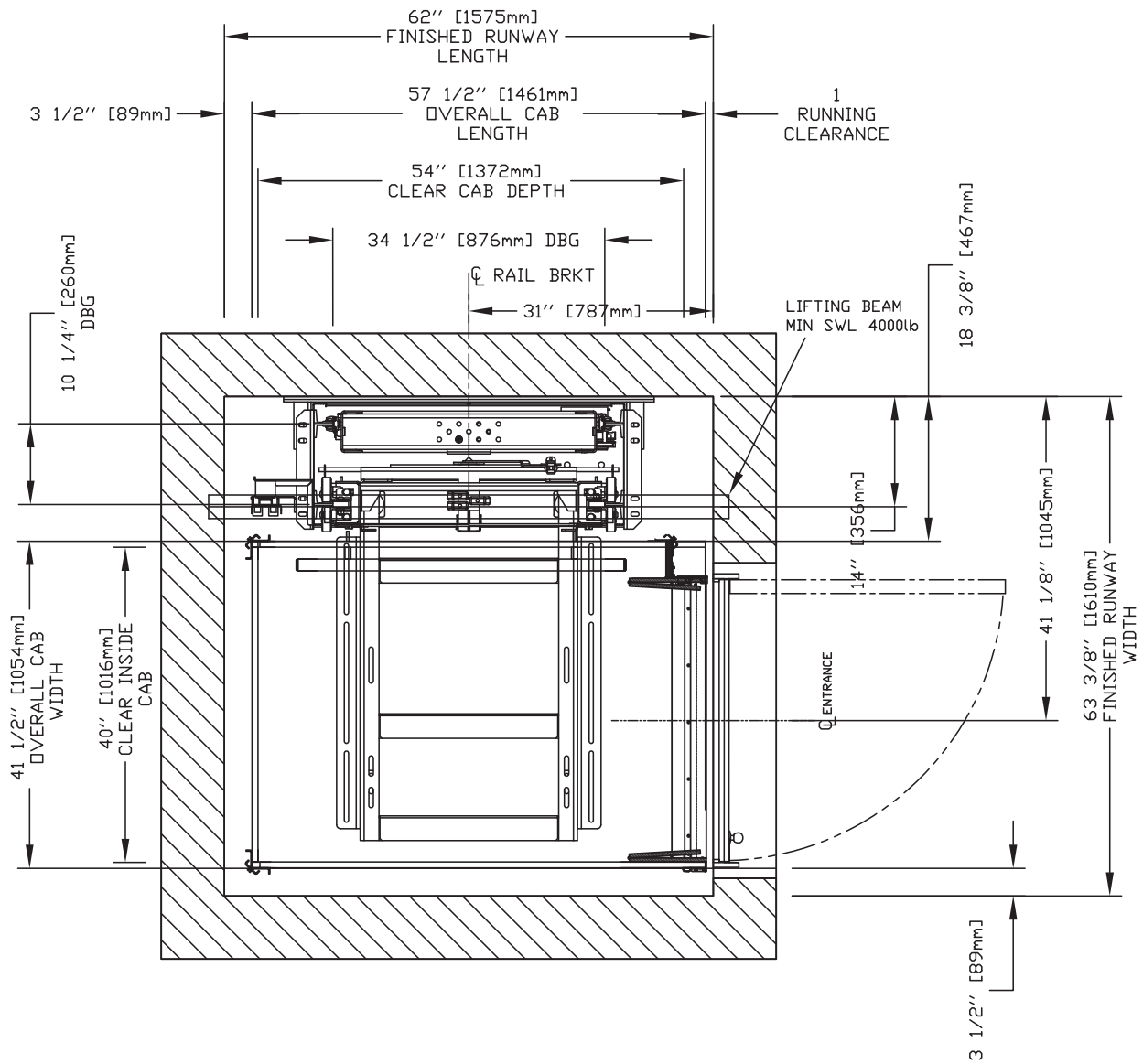


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1R Cab, Bi-fold Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

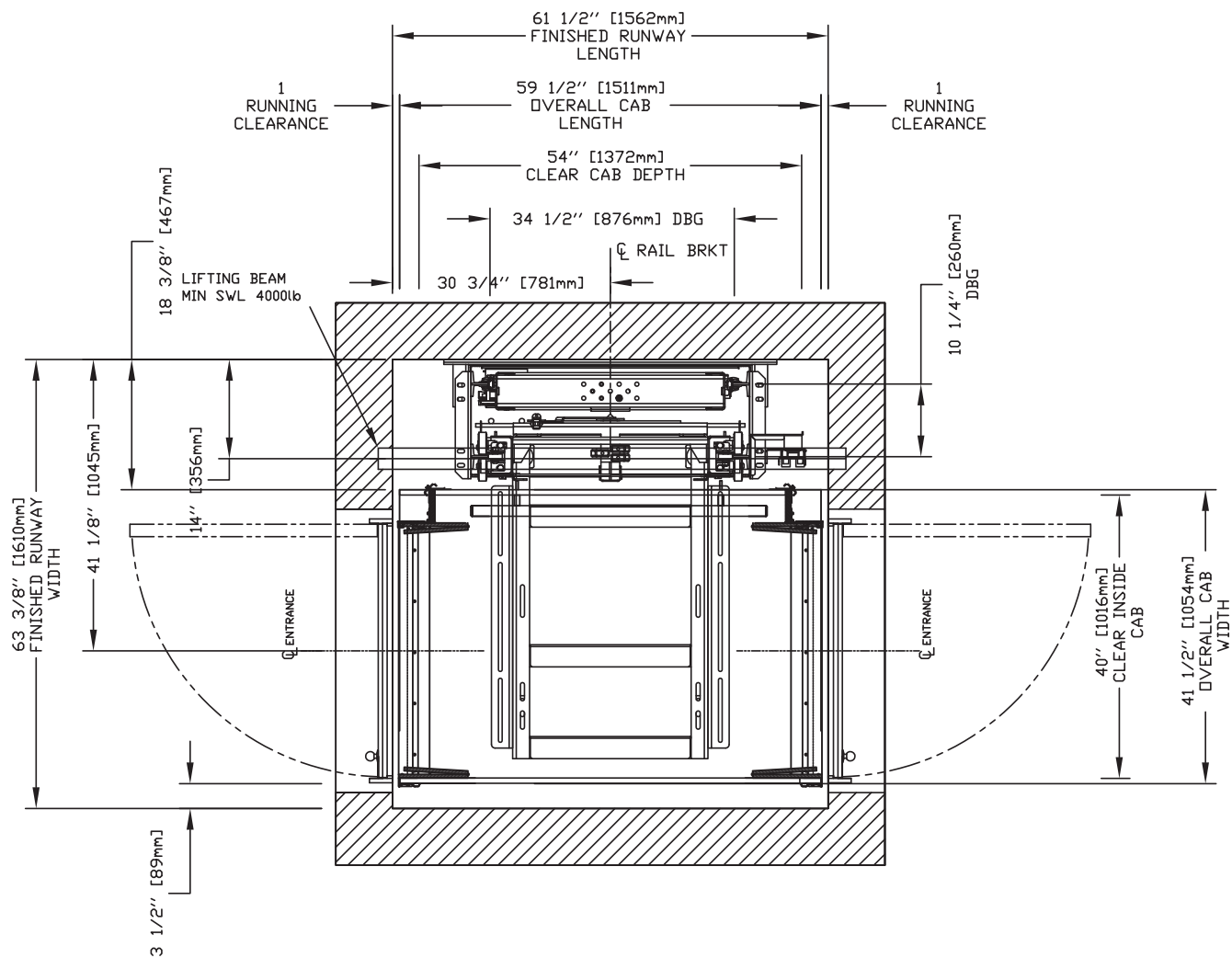


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 2 Cab, Bi-fold Doors

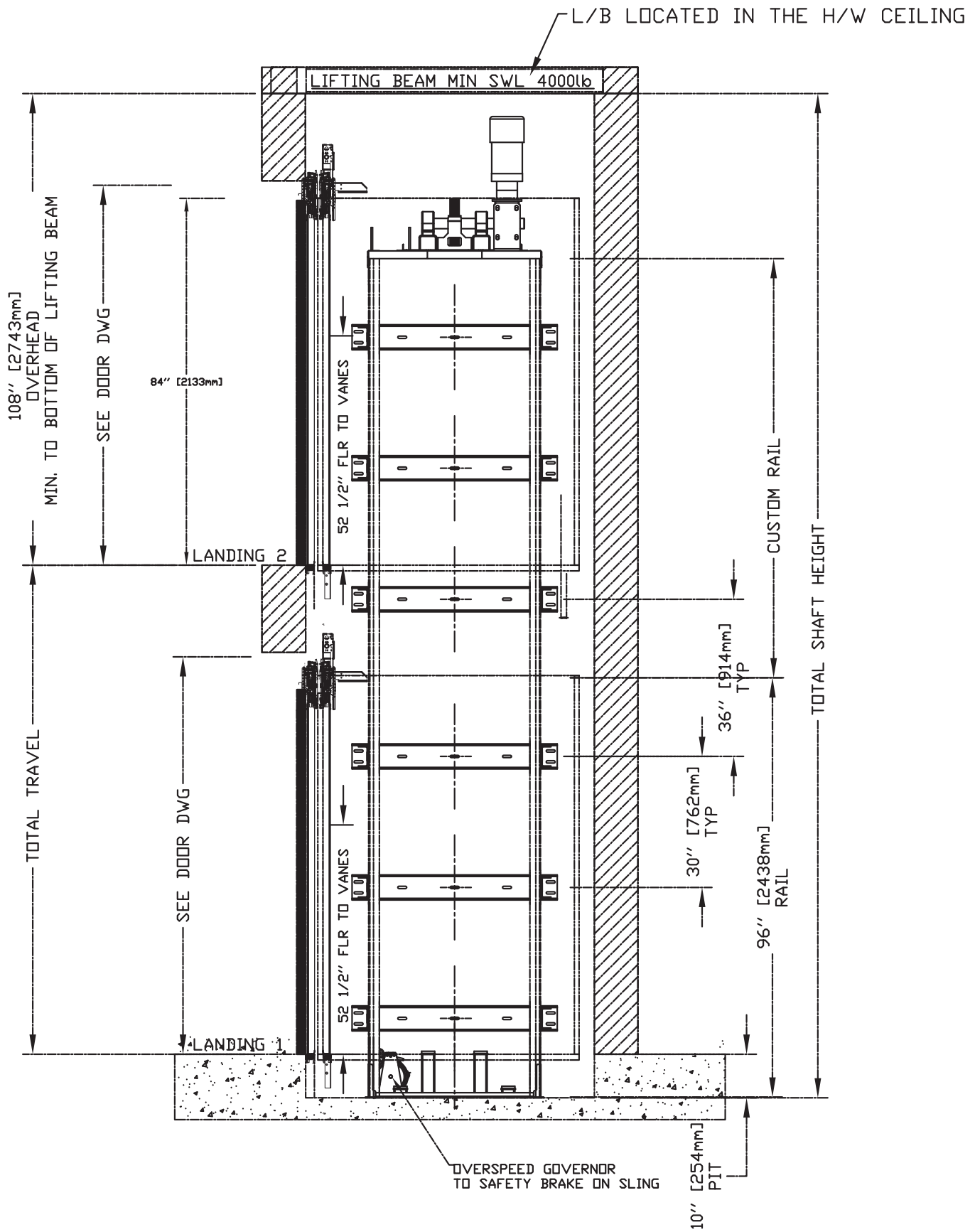
IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.



NOTE: The cab dimensions provided are based on a PLAM cab.

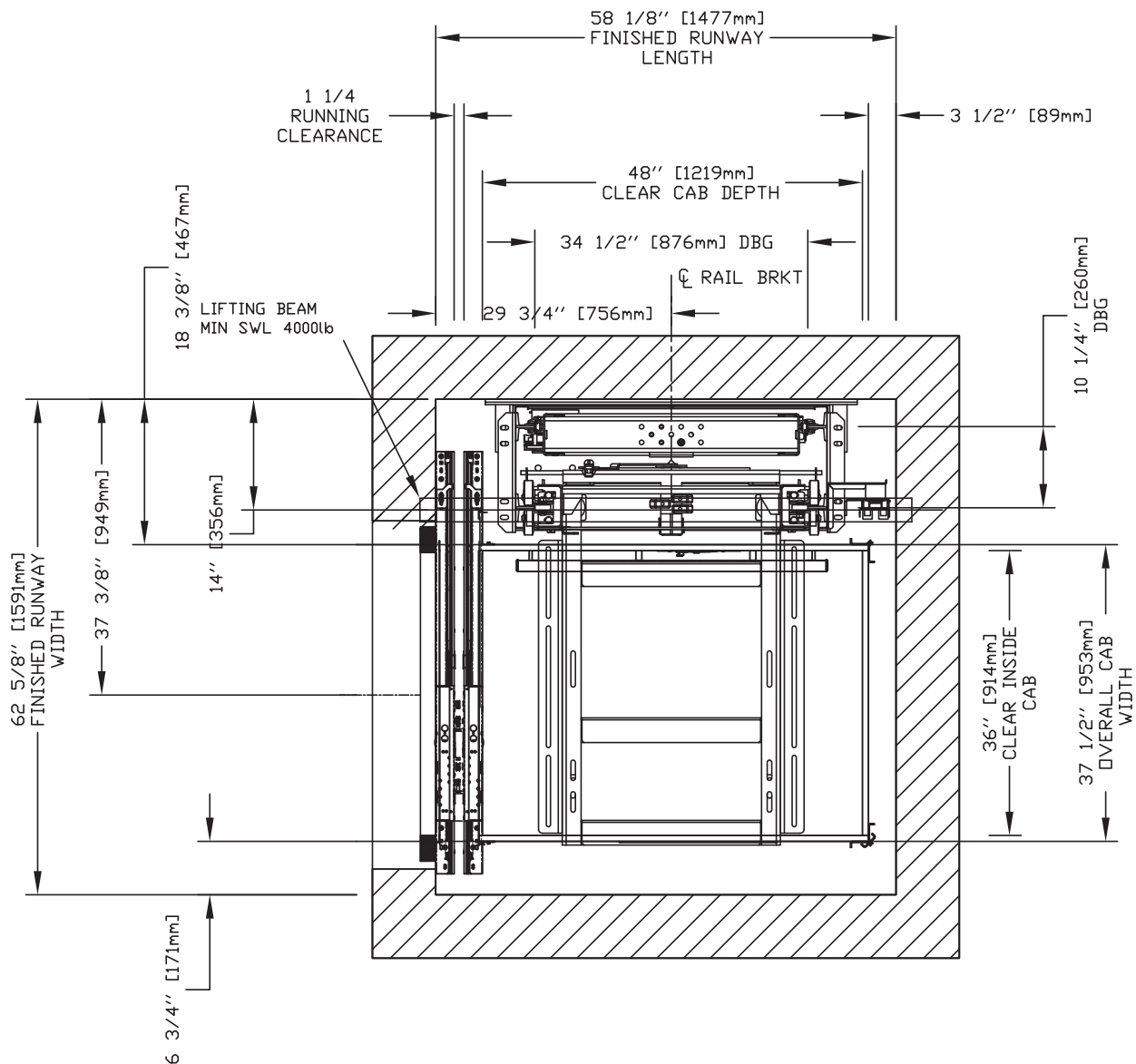
Sample Elevation View, Auto Slim Doors



36" x 48" Type 1L Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

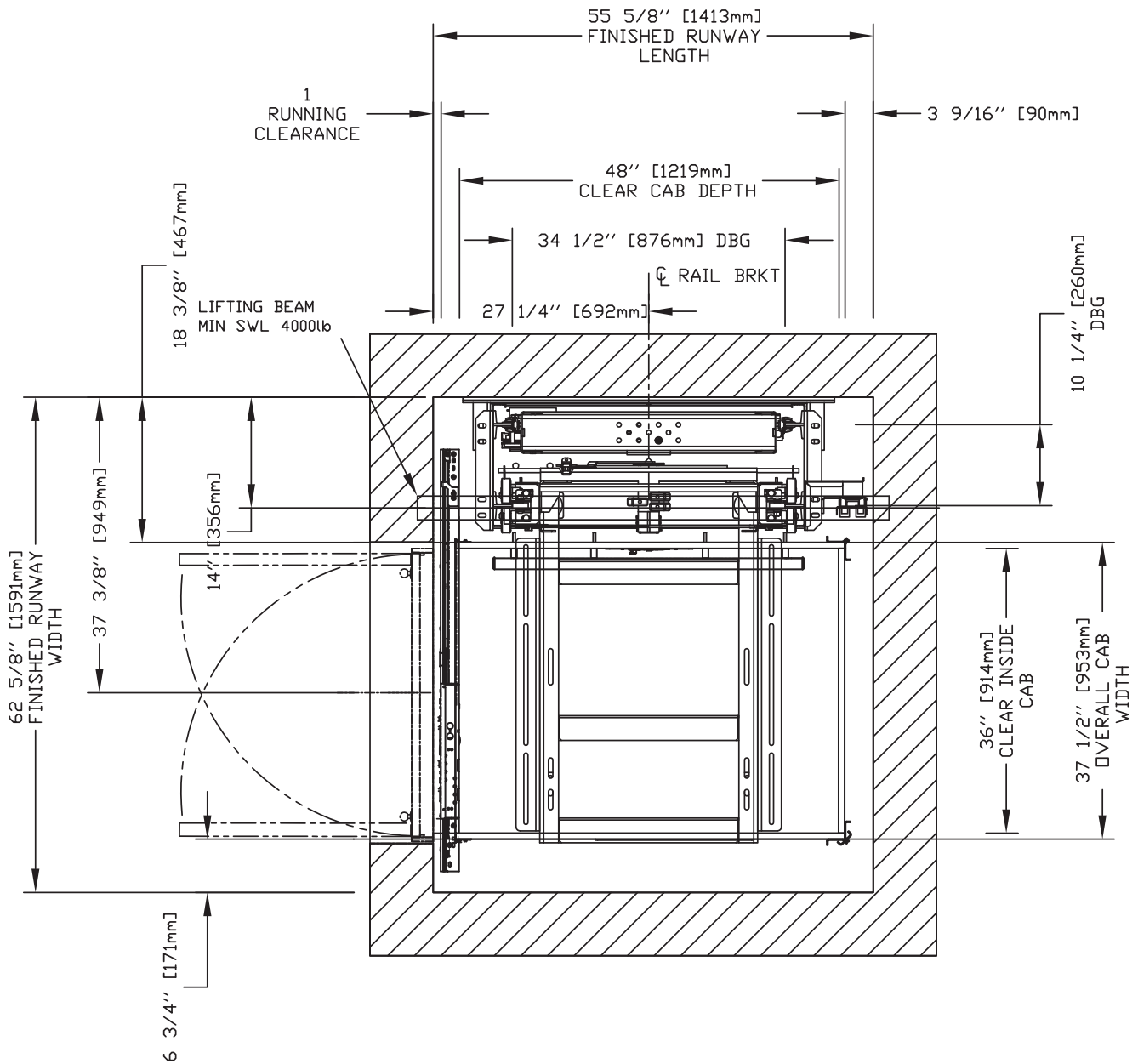


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 1L Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

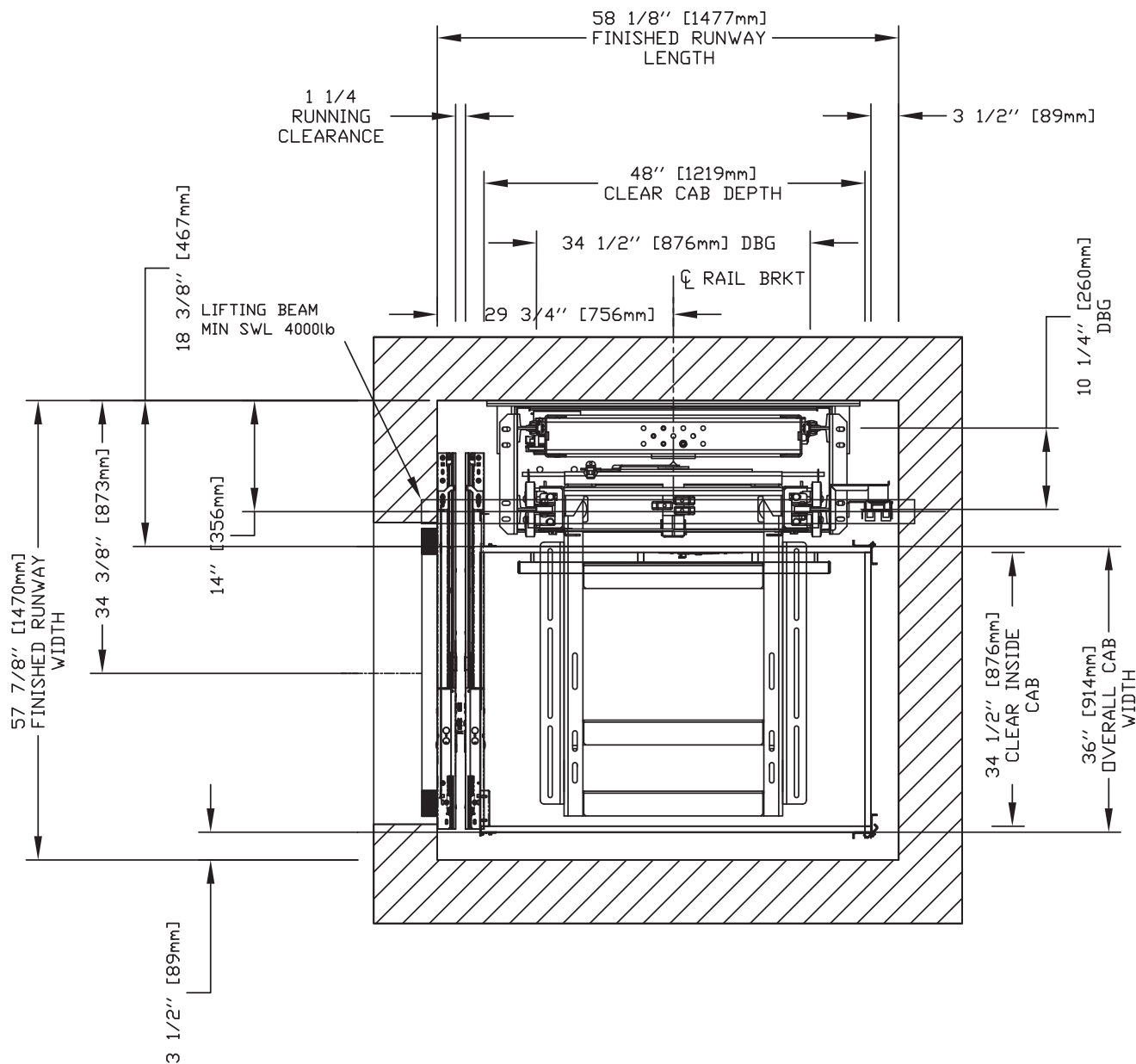


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 1L Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

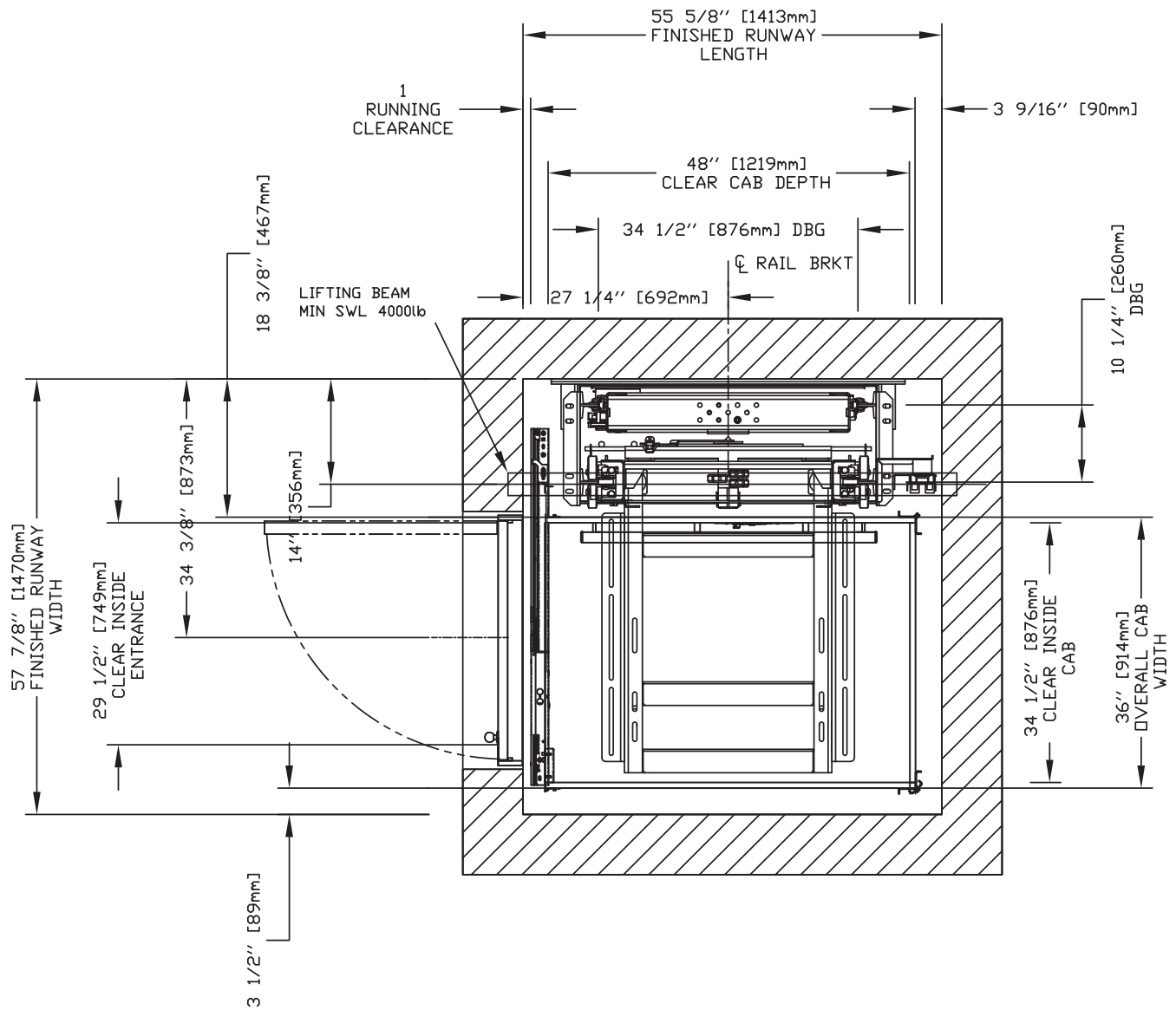


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 1L Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

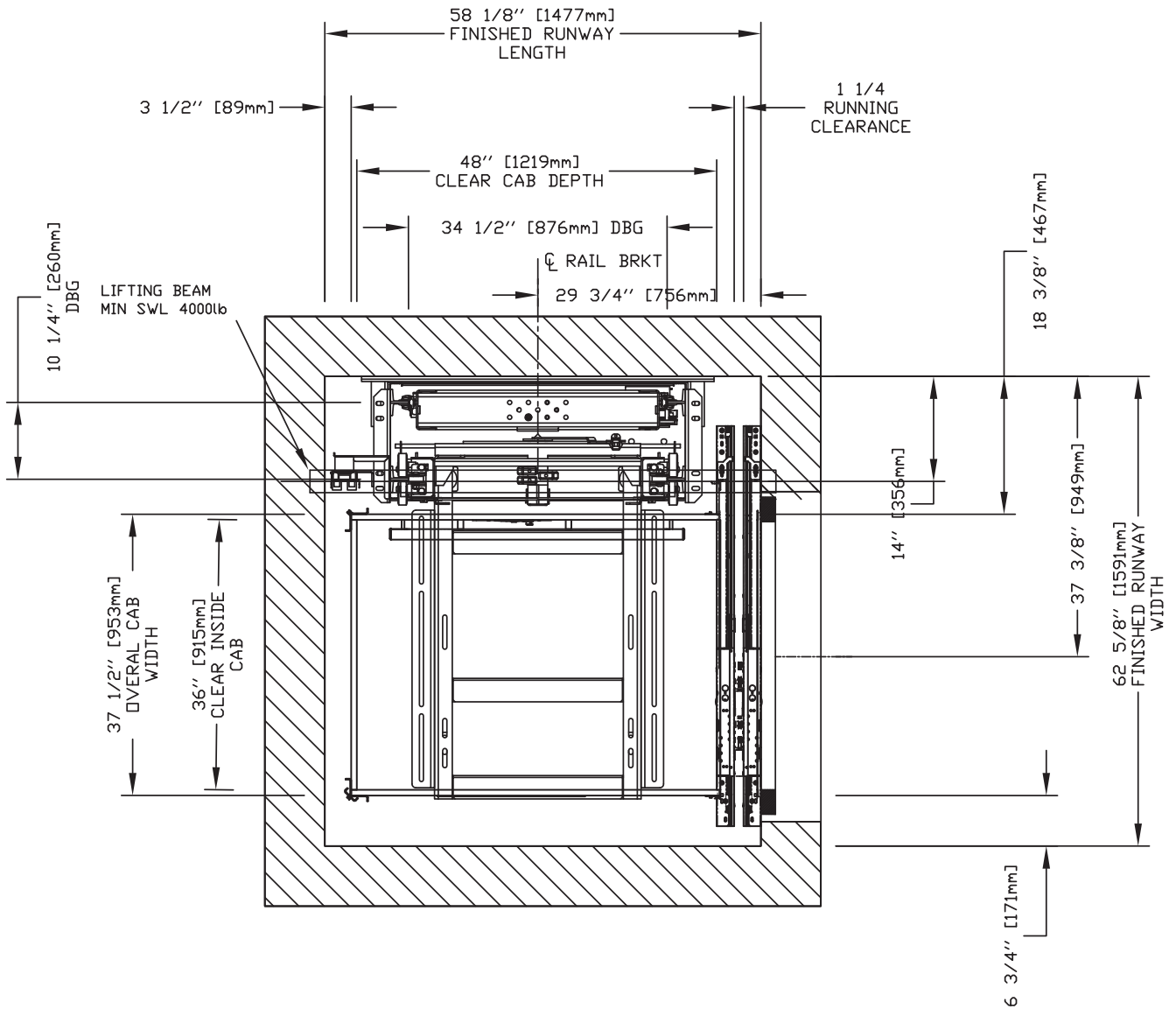
Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.



36" x 48" Type 1R Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

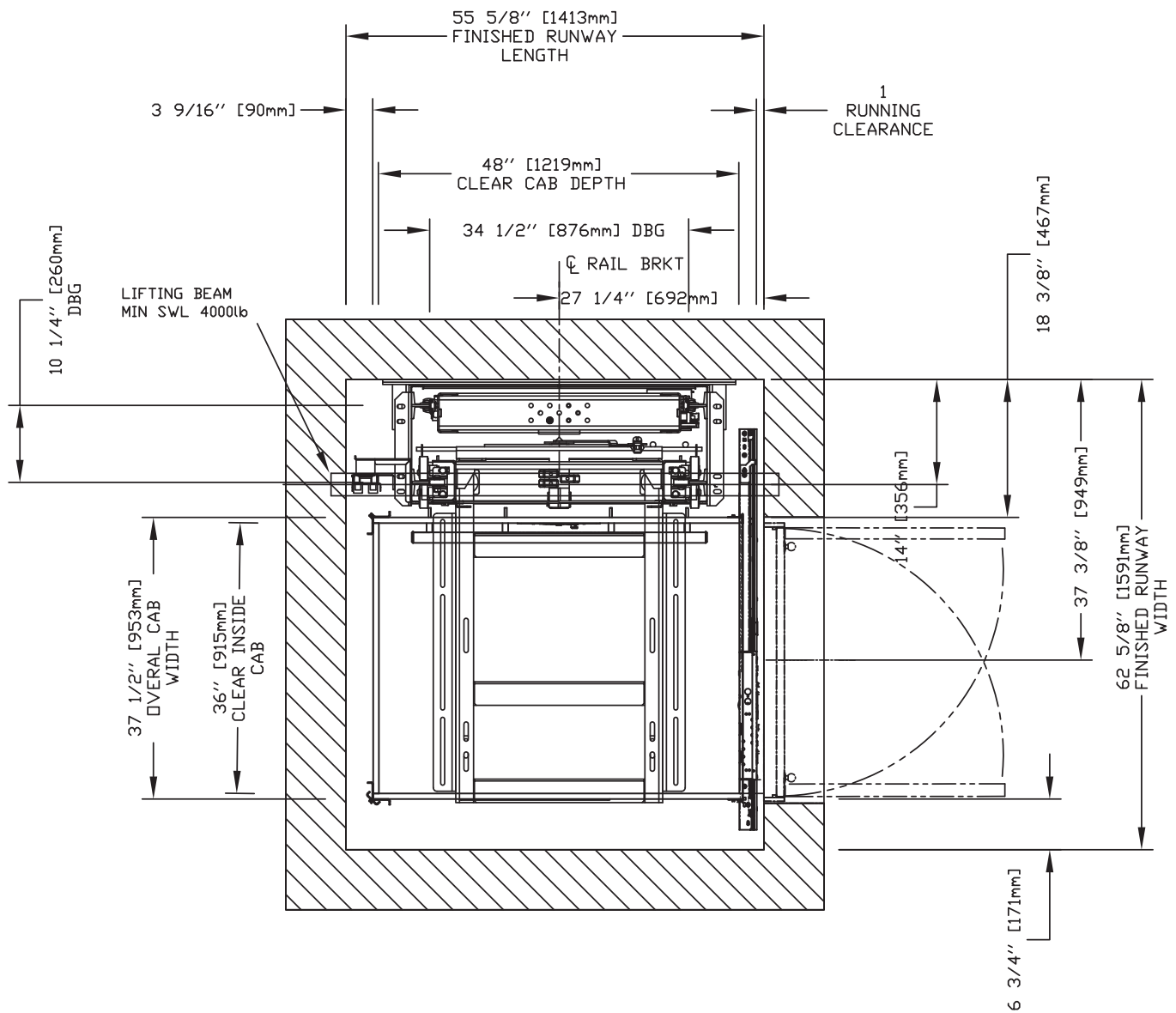


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 1R Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

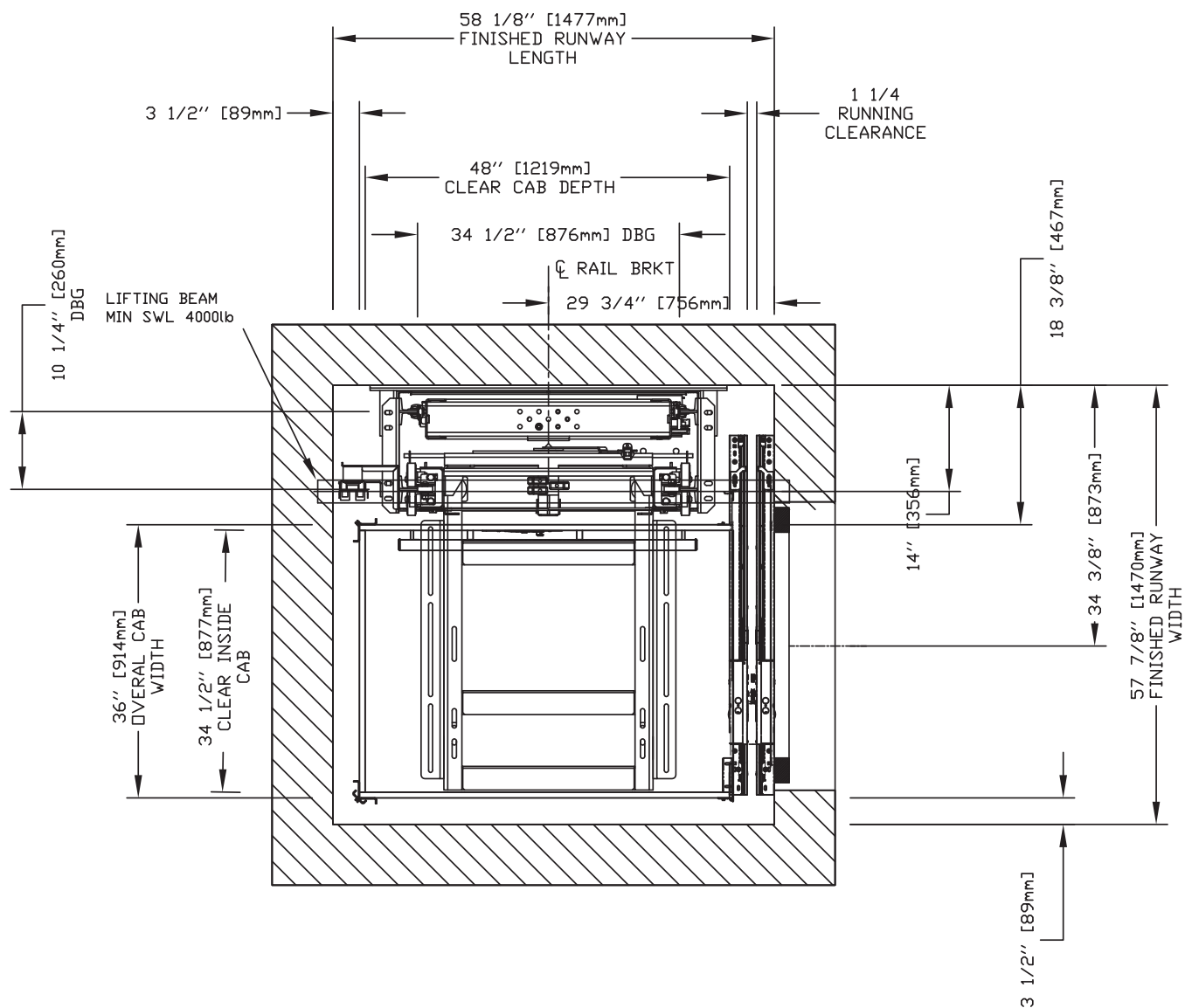


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 1R Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

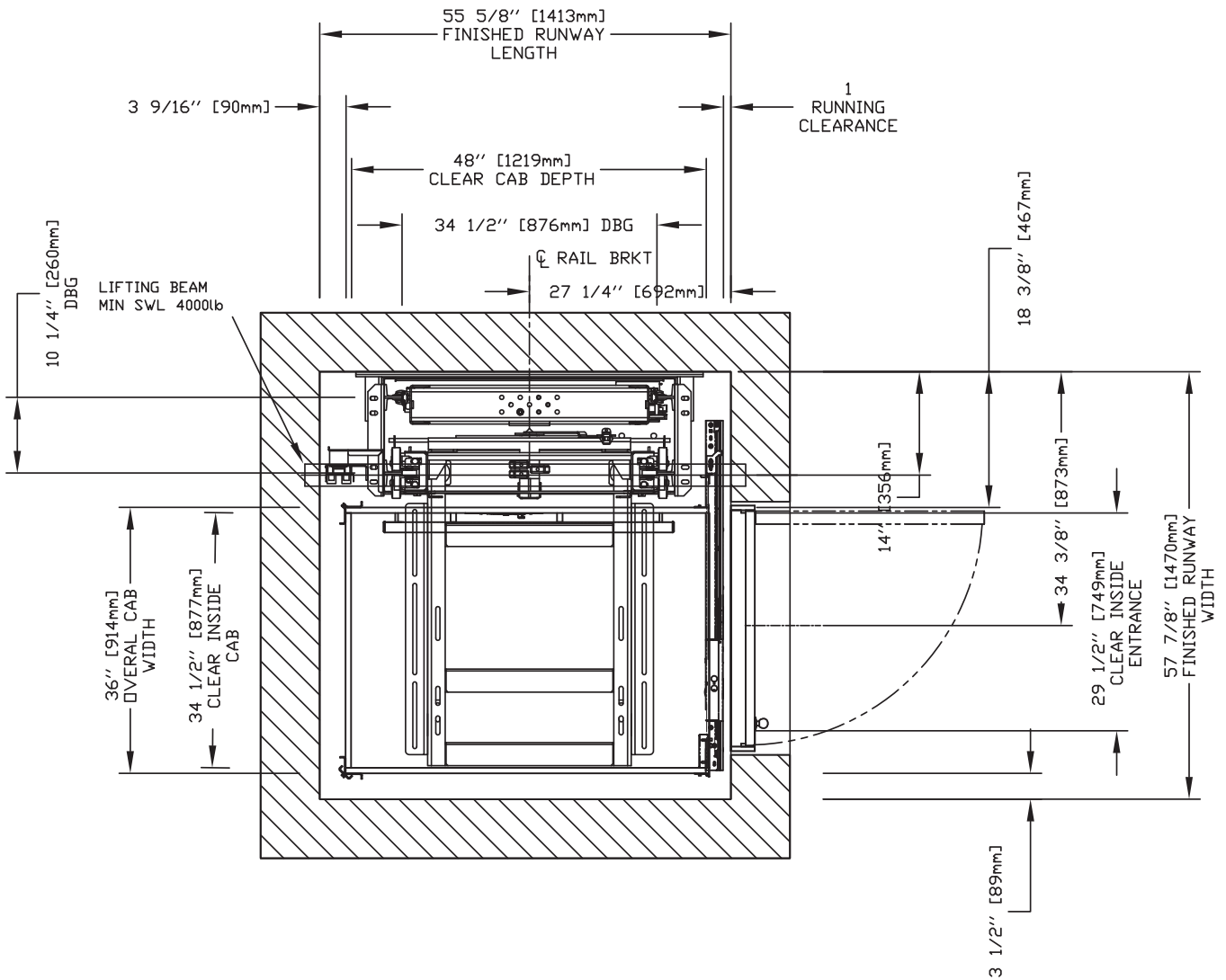


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 1R Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

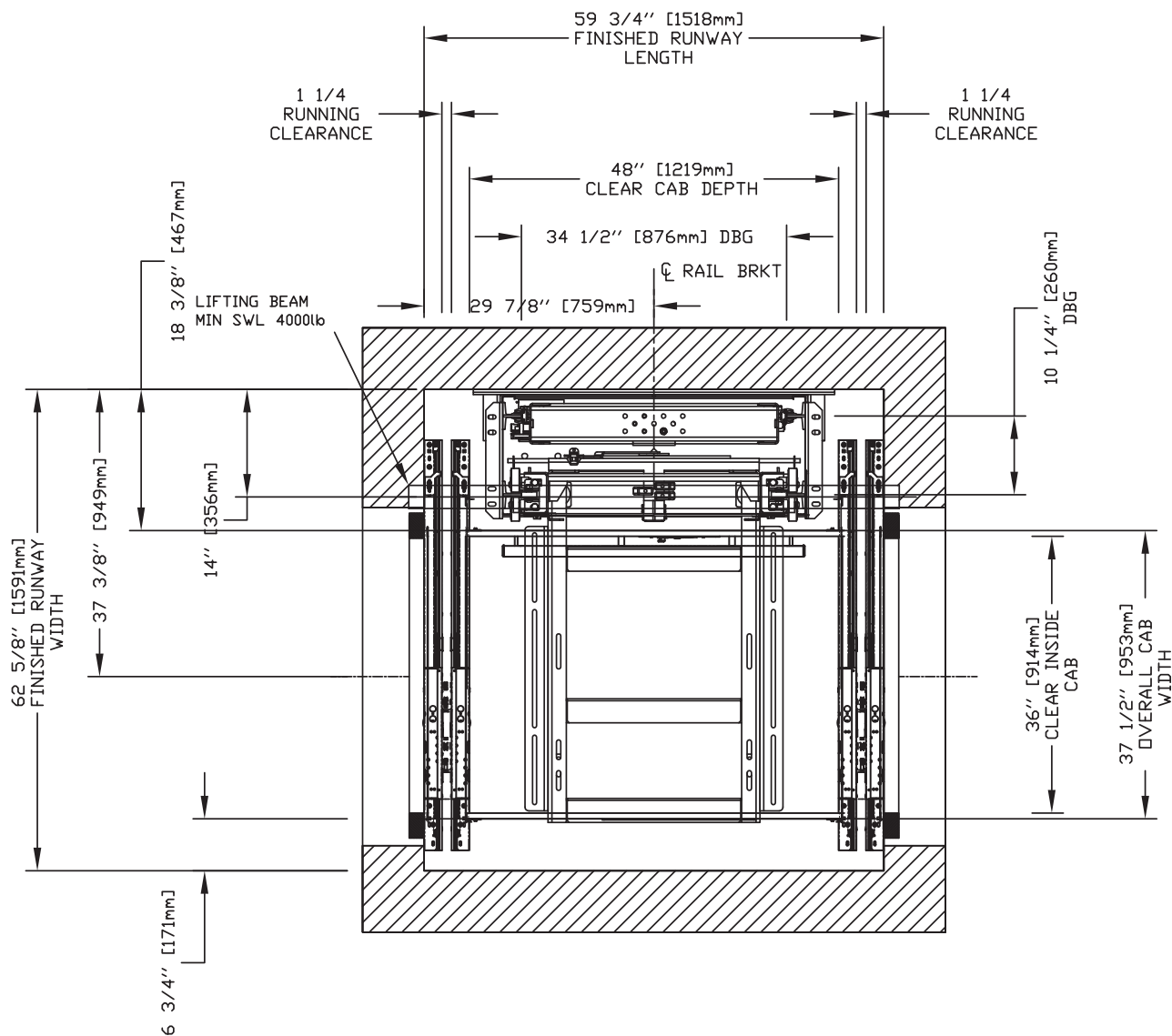


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 2 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

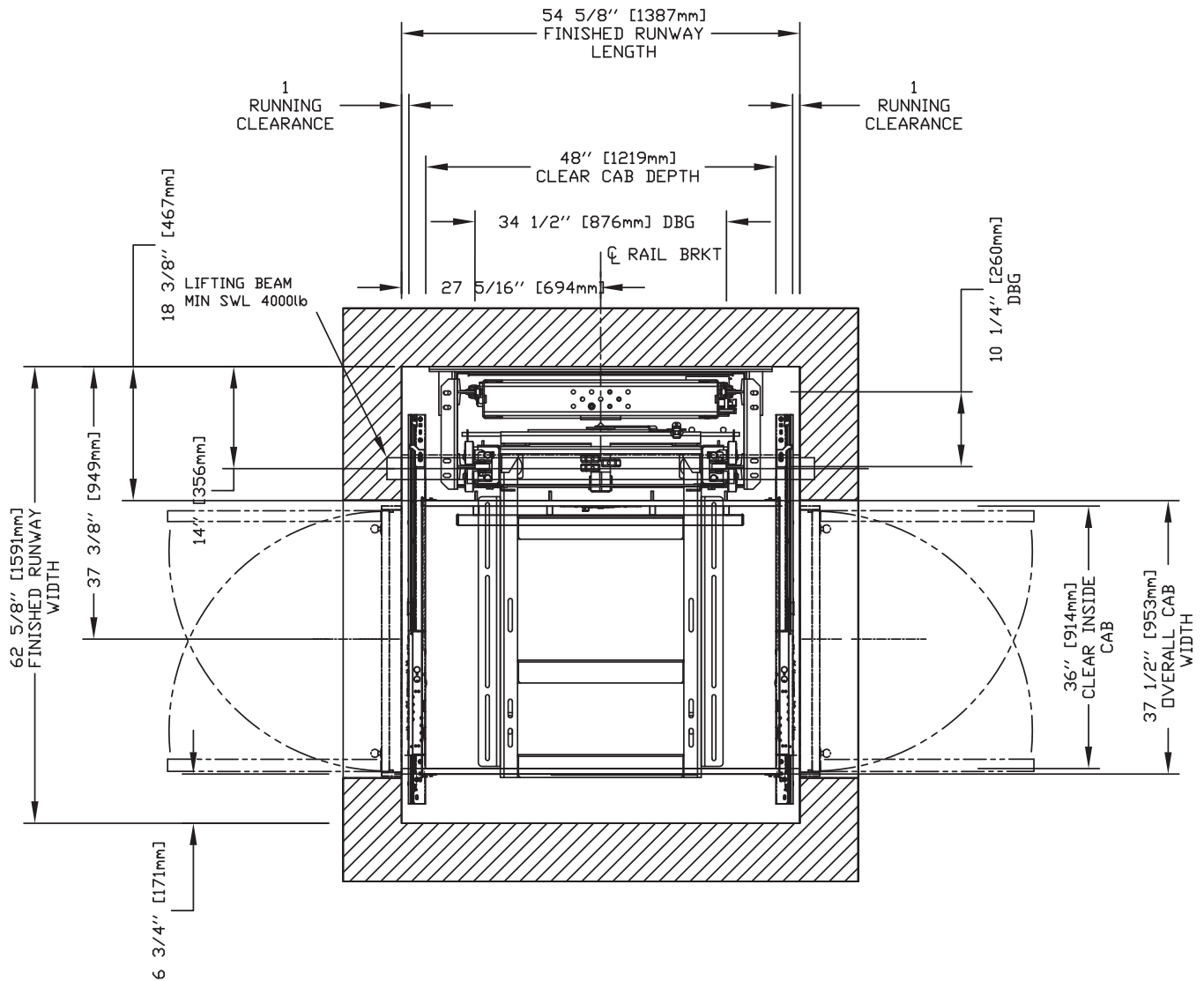


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 2 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

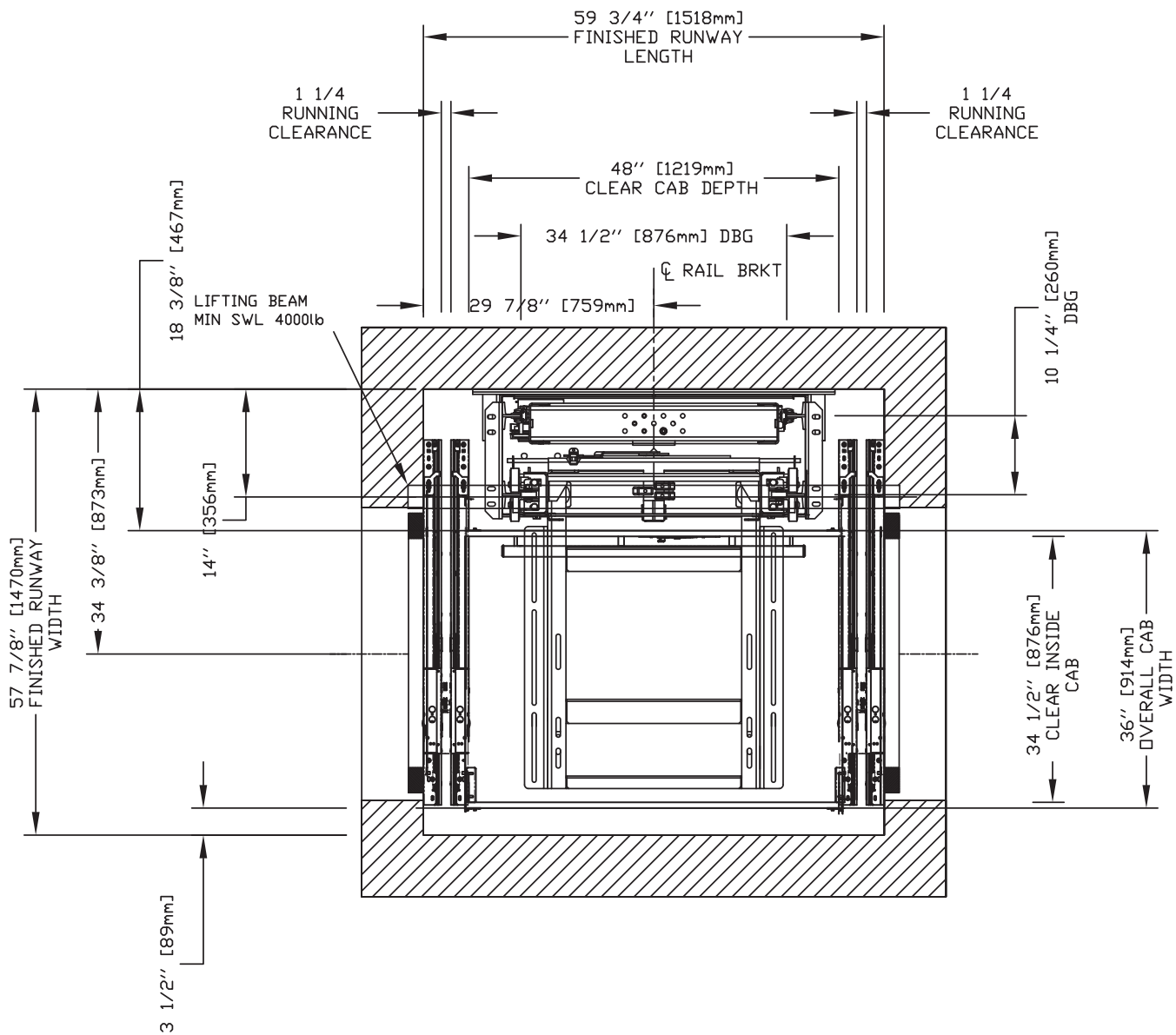


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 2 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

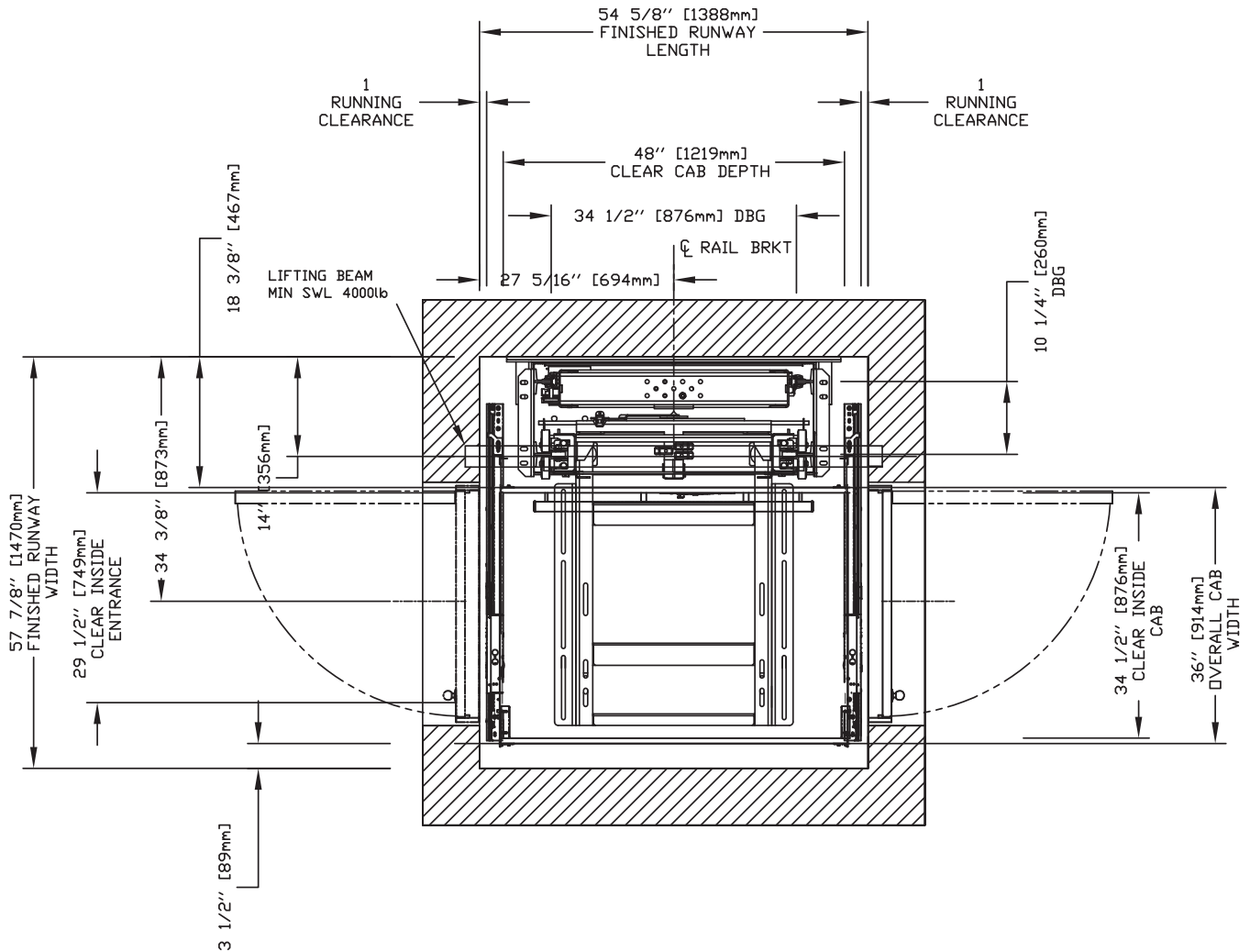


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 48" Type 2 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

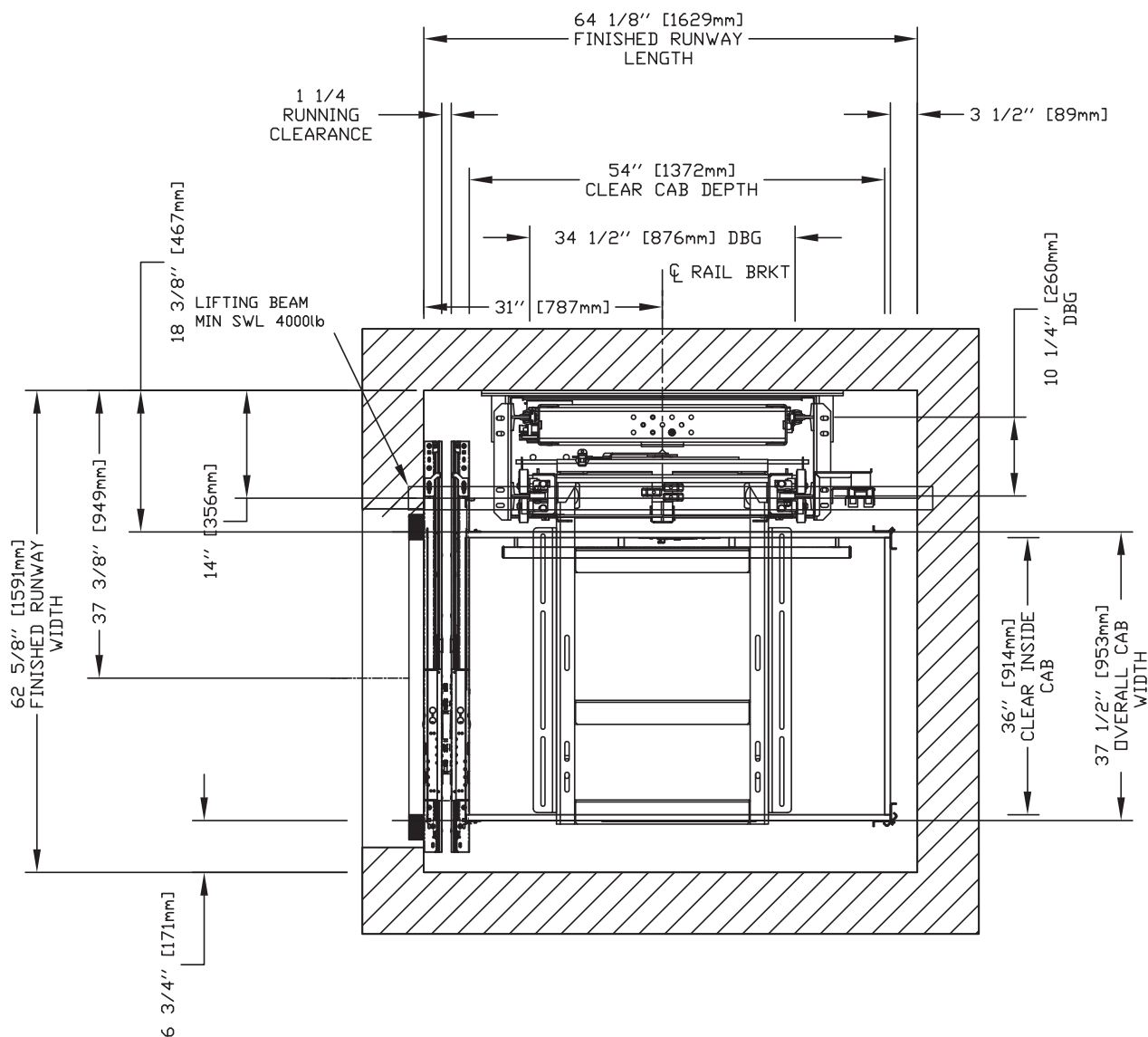


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1L Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

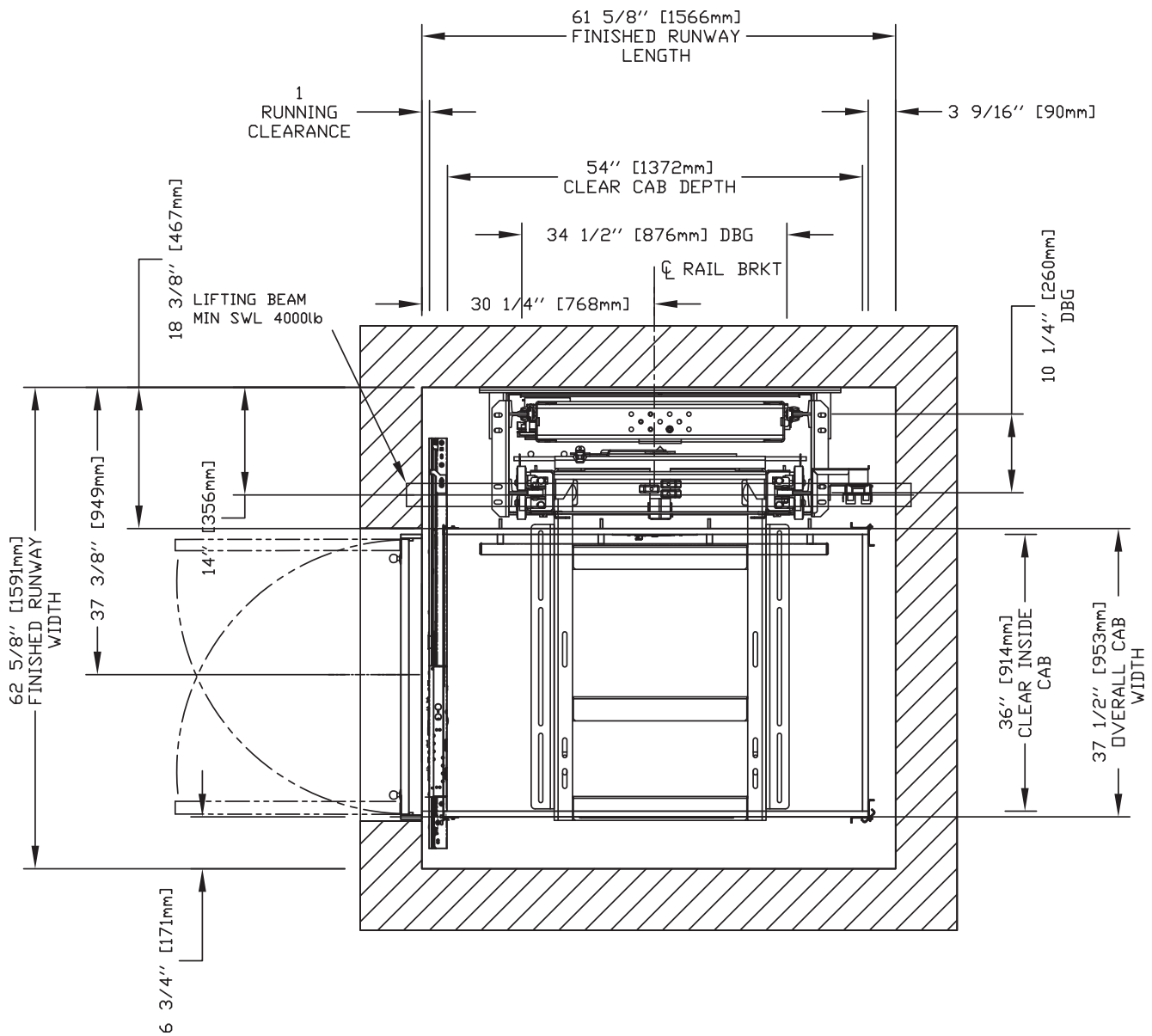


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1L Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of
sheet rock. Build only from the final shop drawings specific to your
installation.

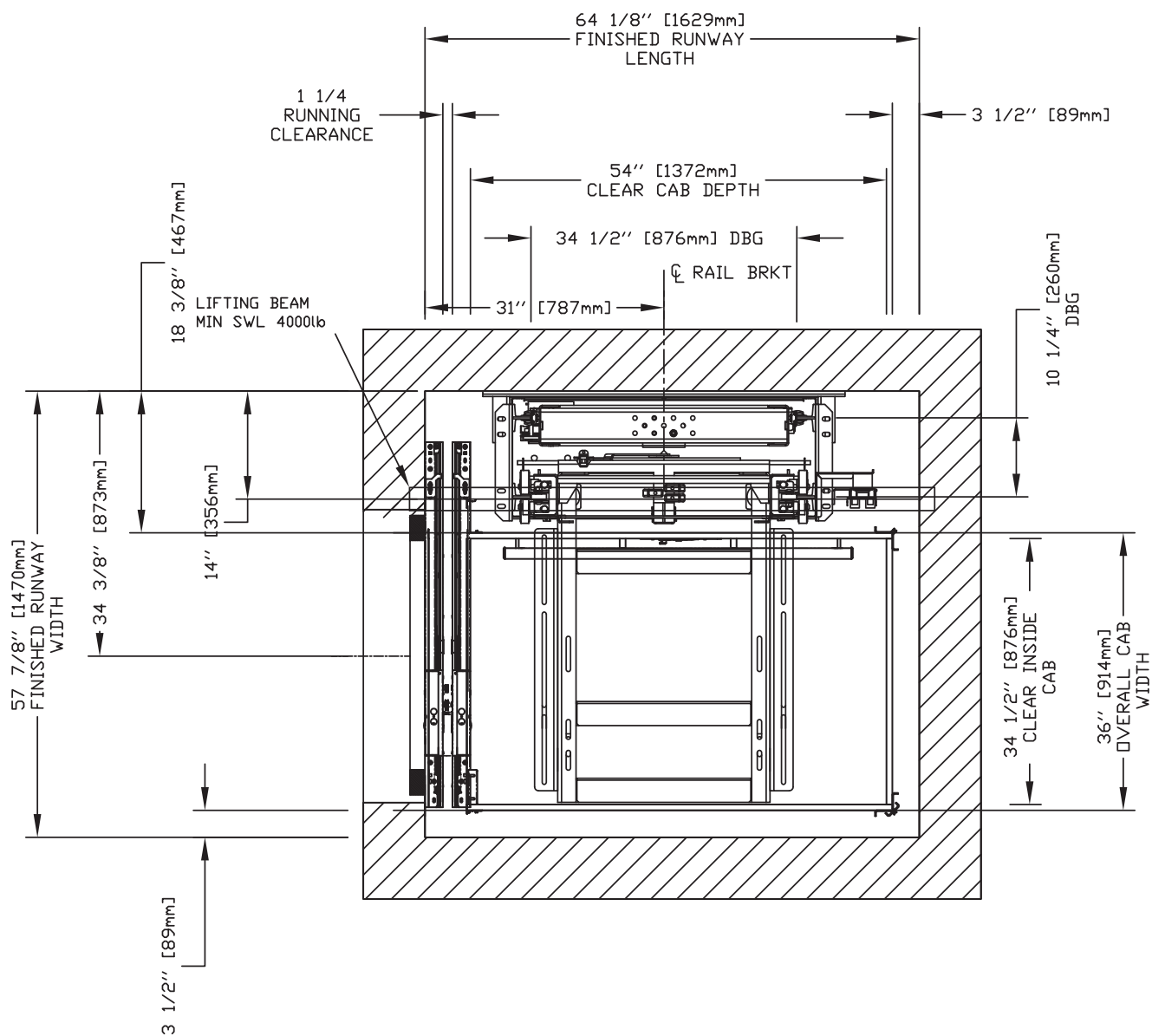


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1L Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

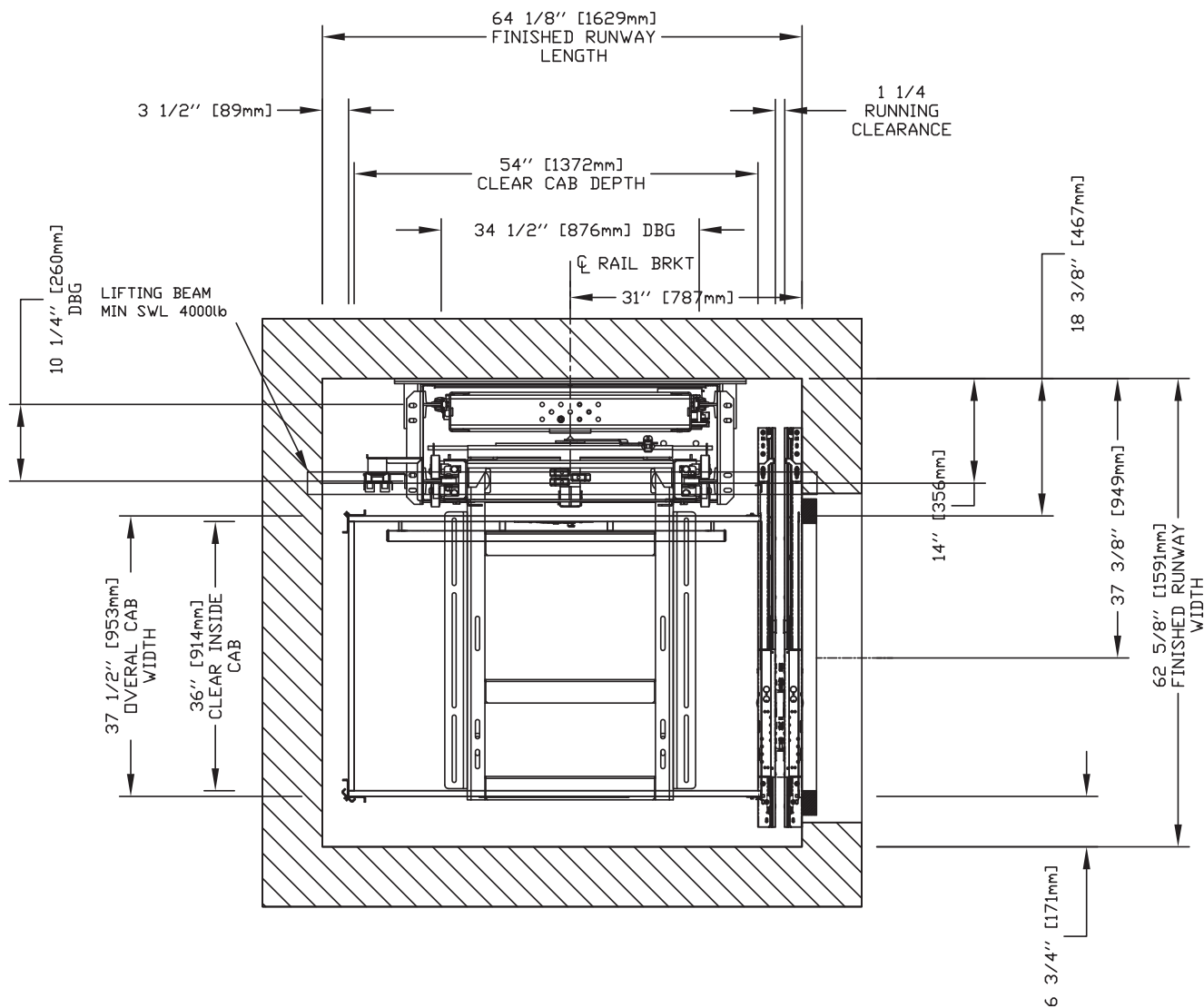


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1R Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

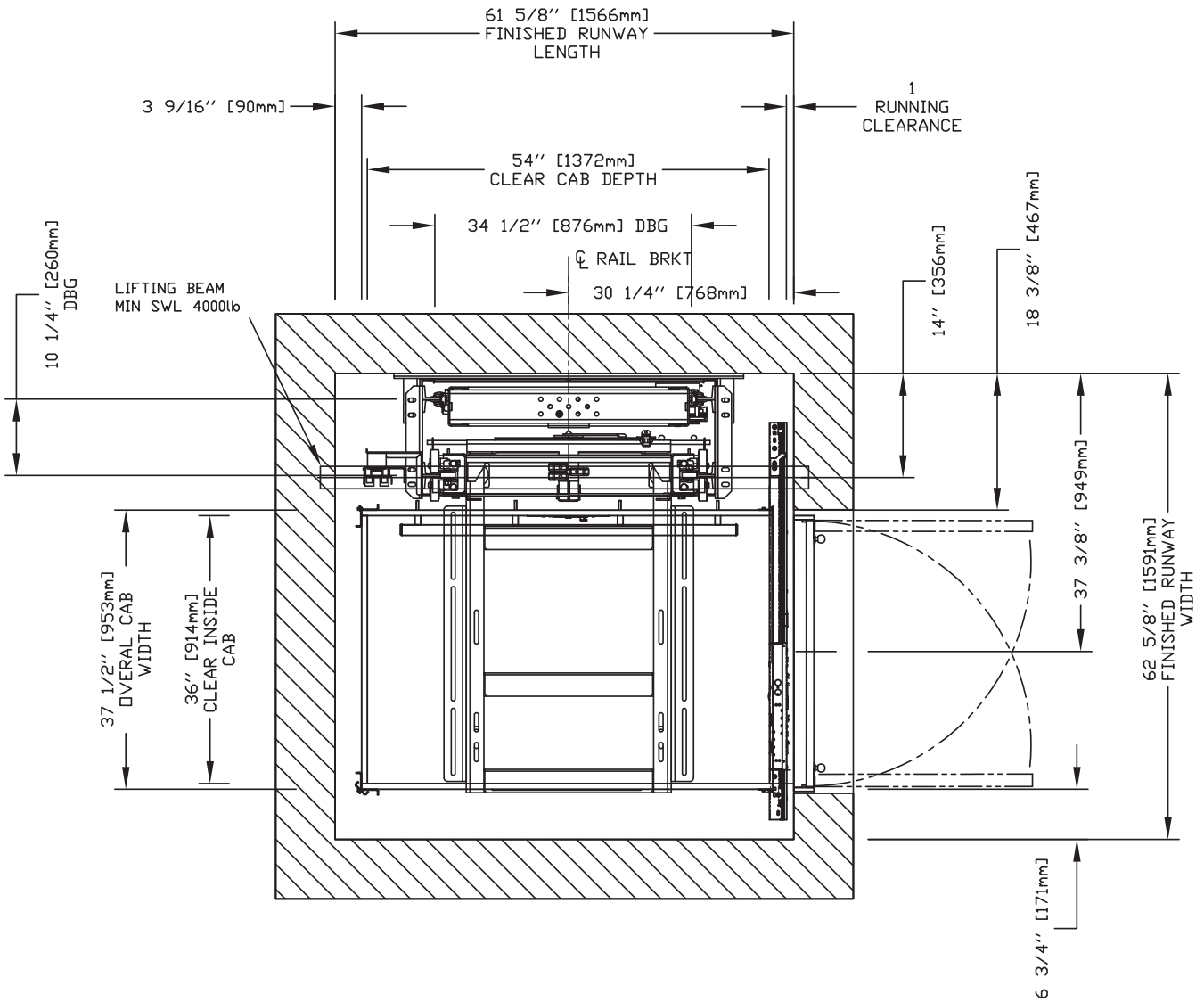


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1R Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

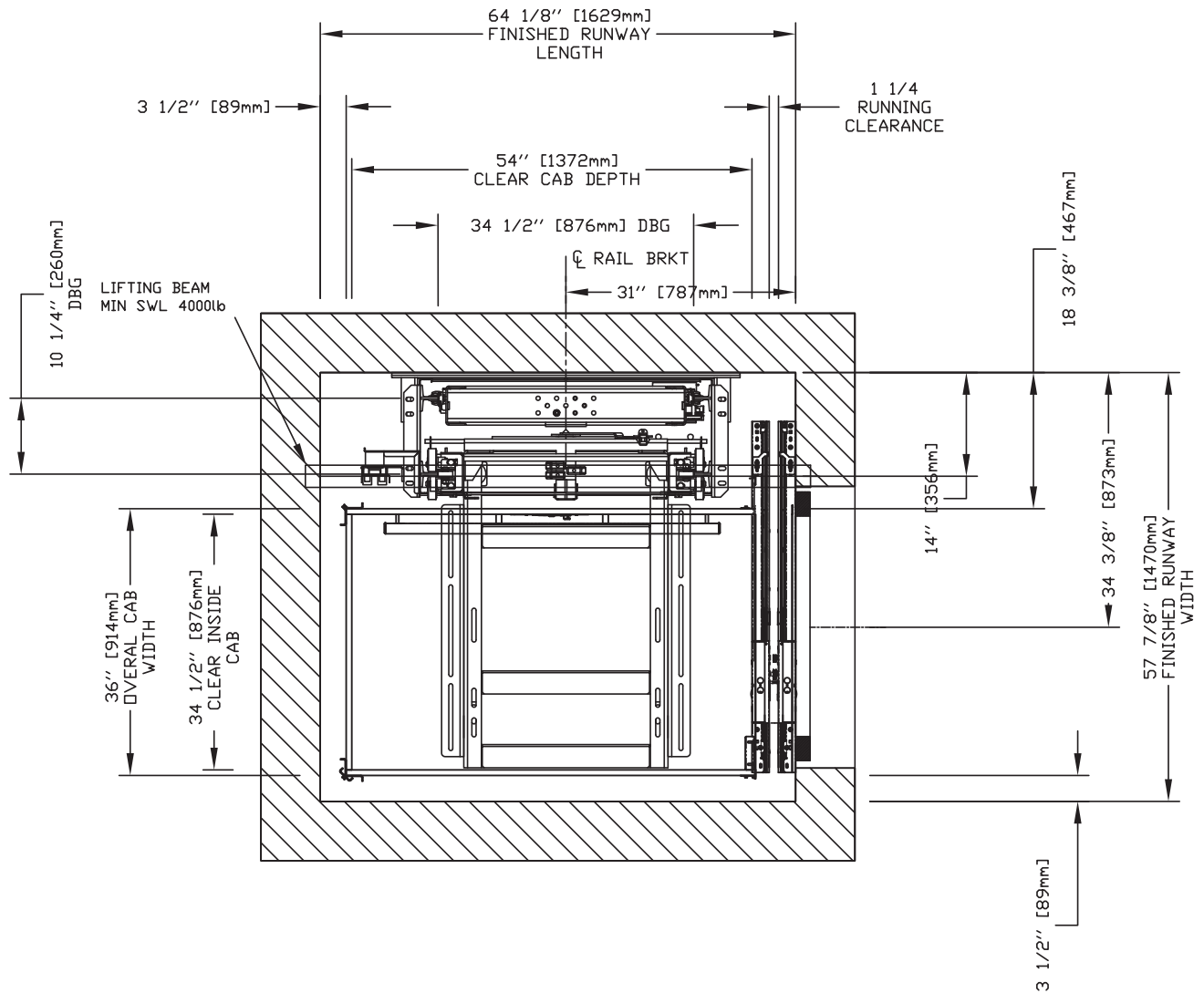


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1R Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

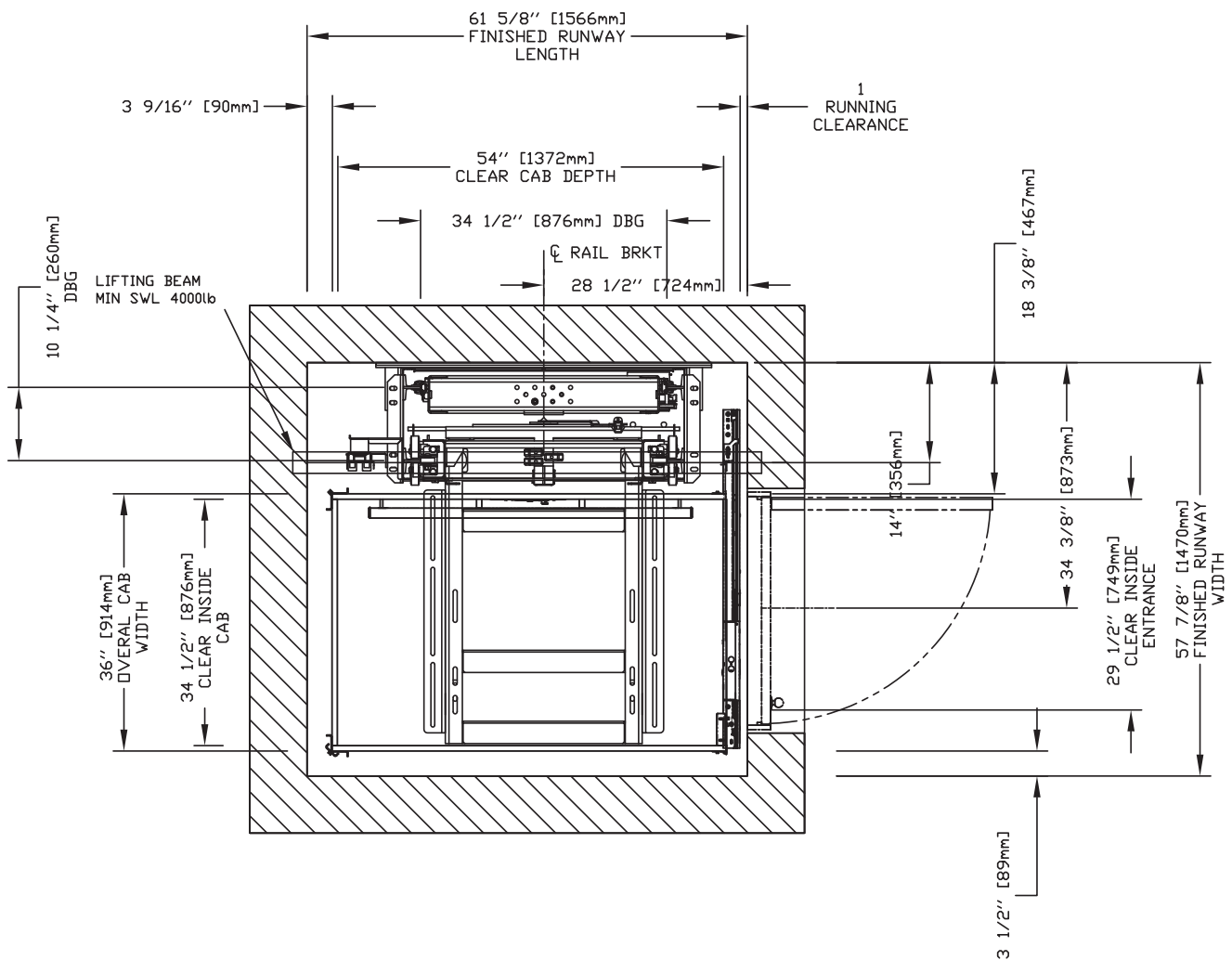


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 1R Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

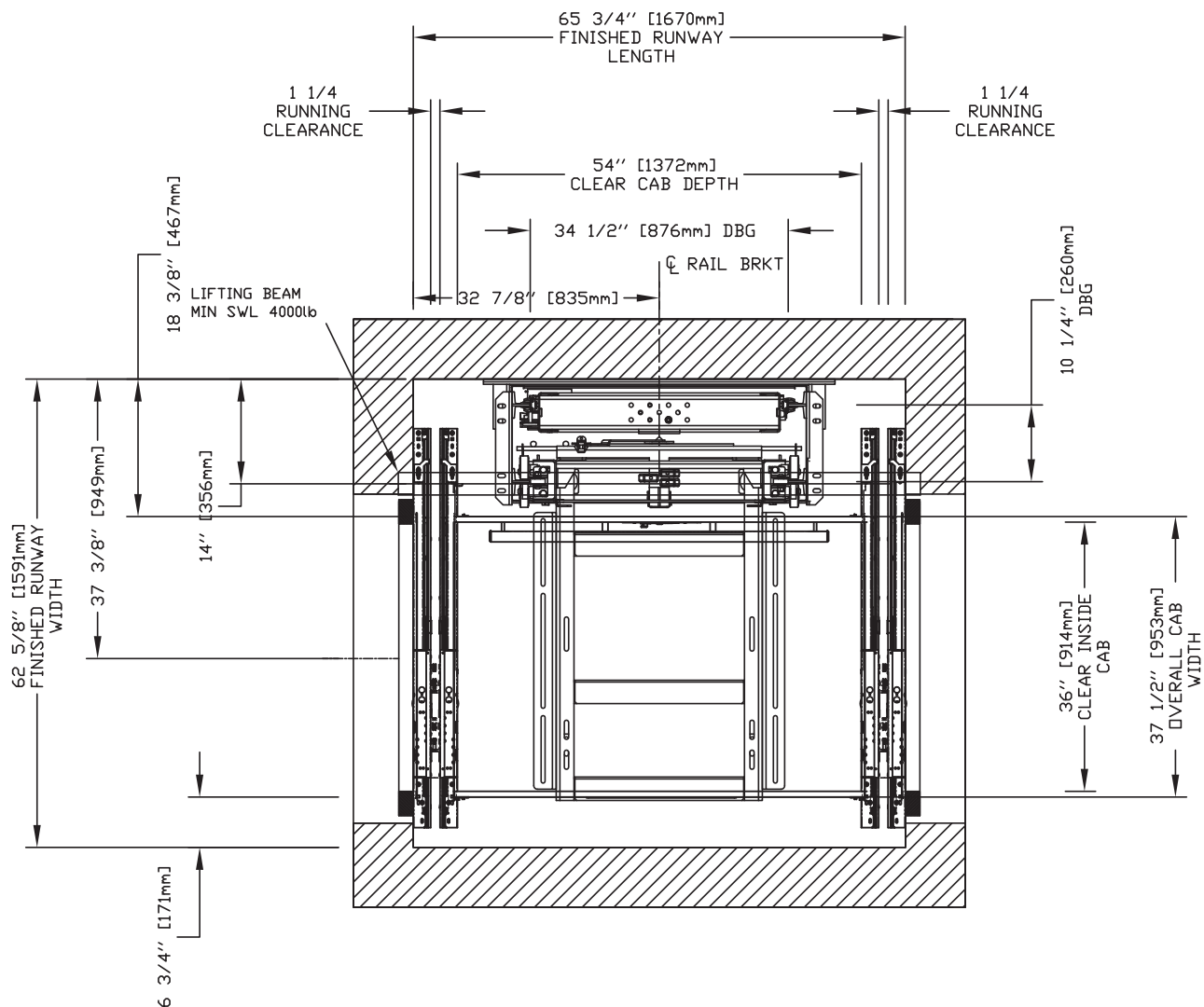


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 2 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

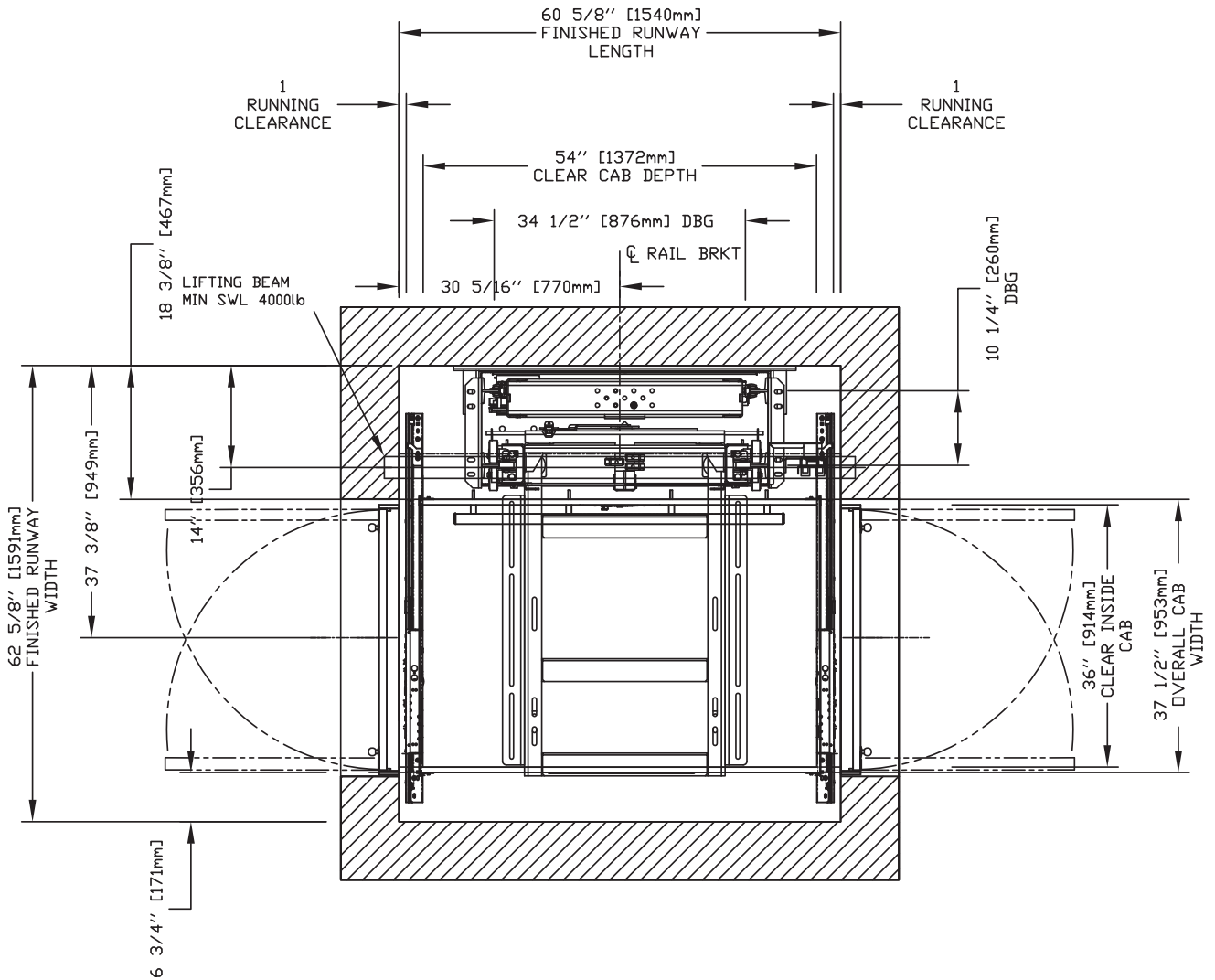


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 2 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

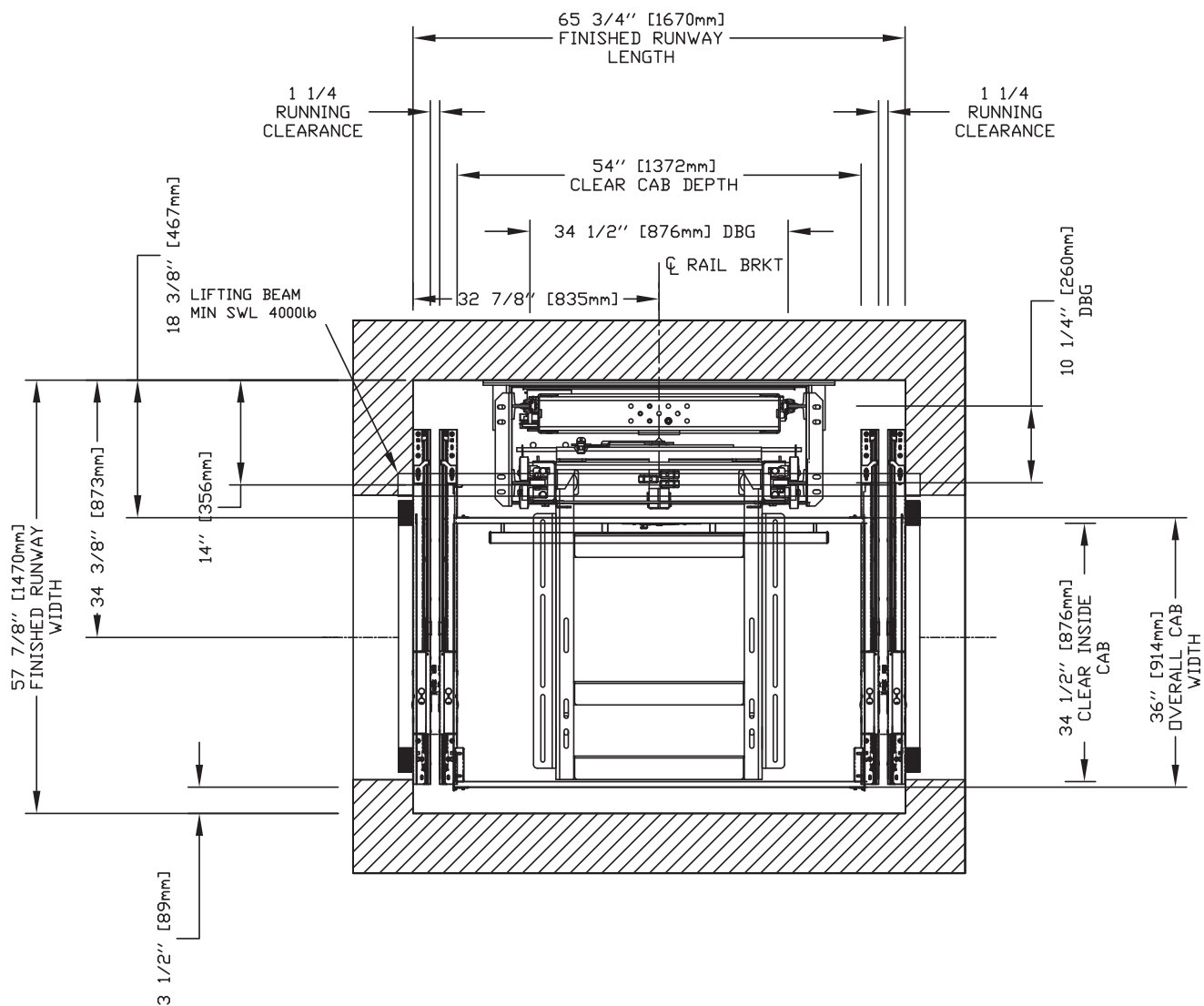


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 2 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

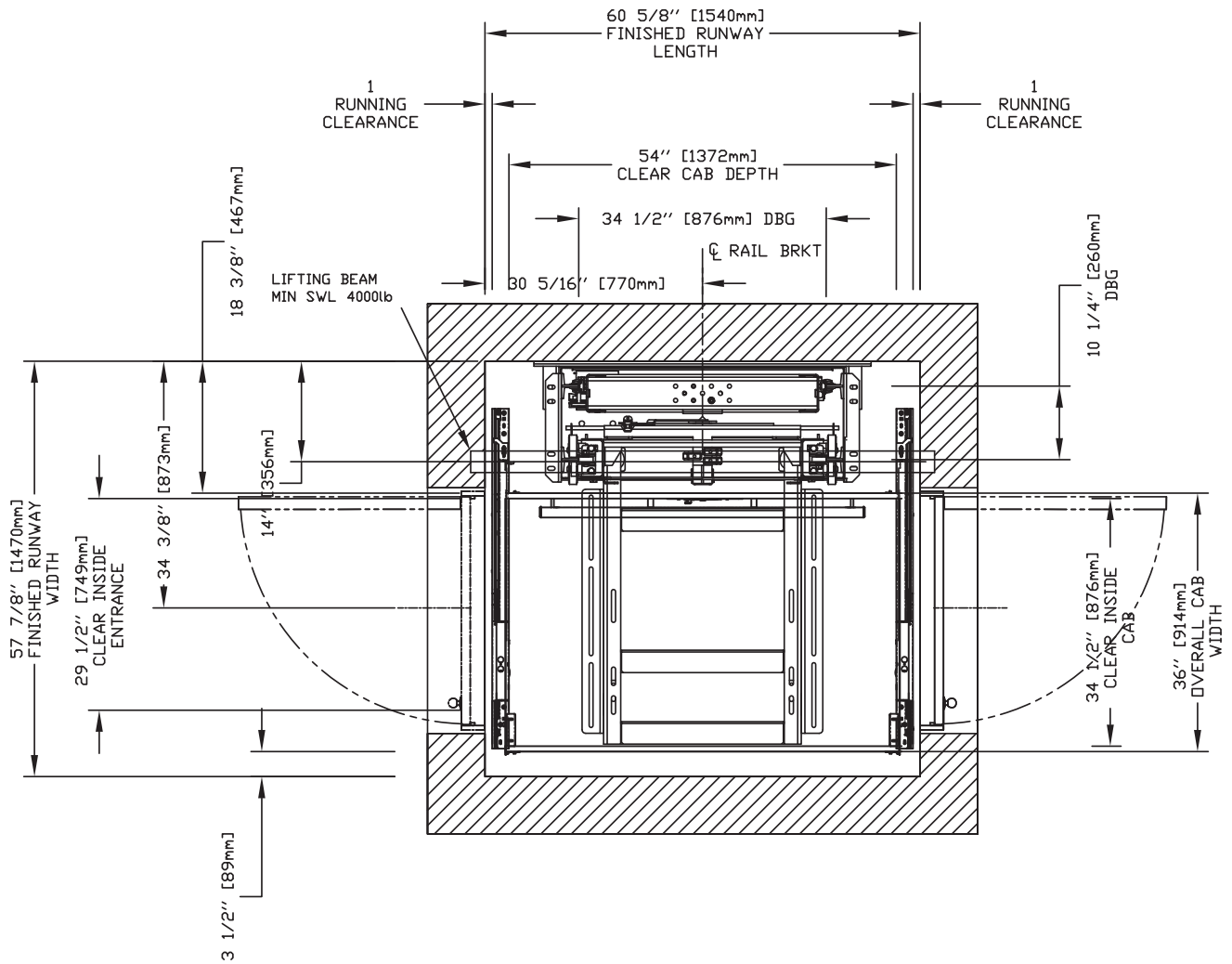


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 2 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

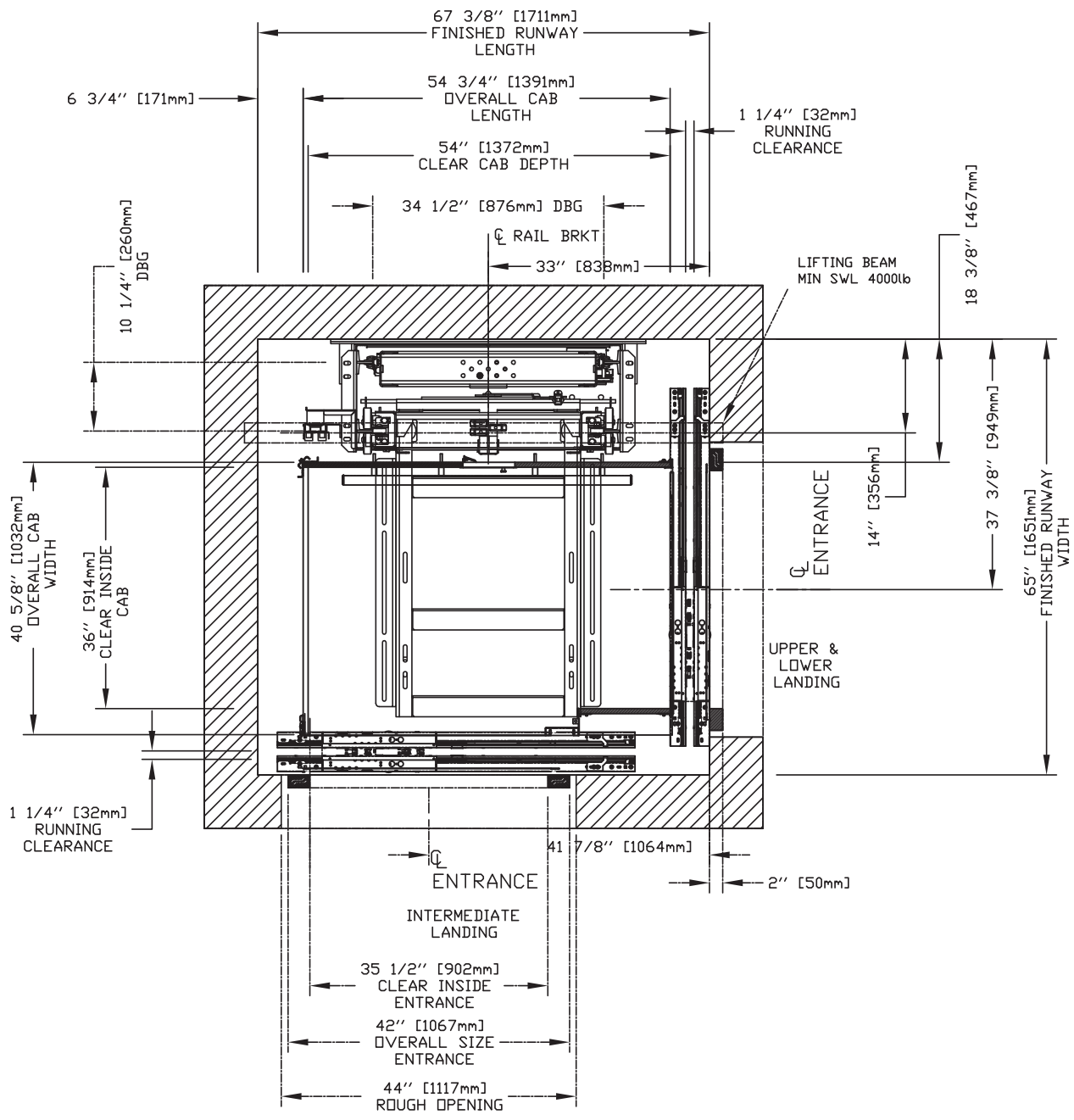


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 3 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

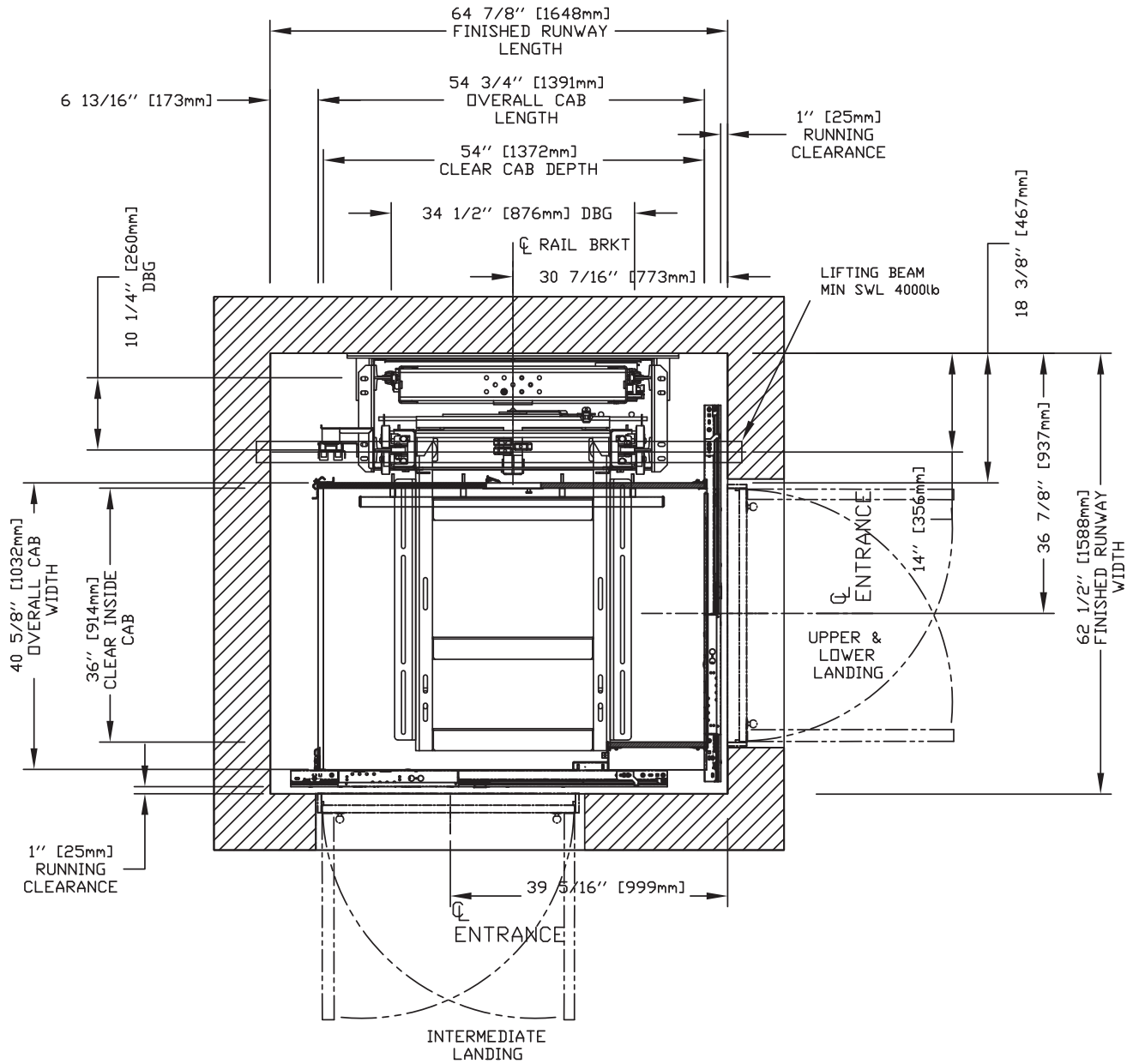


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 3 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of
sheet rock. Build only from the final shop drawings specific to your
installation.

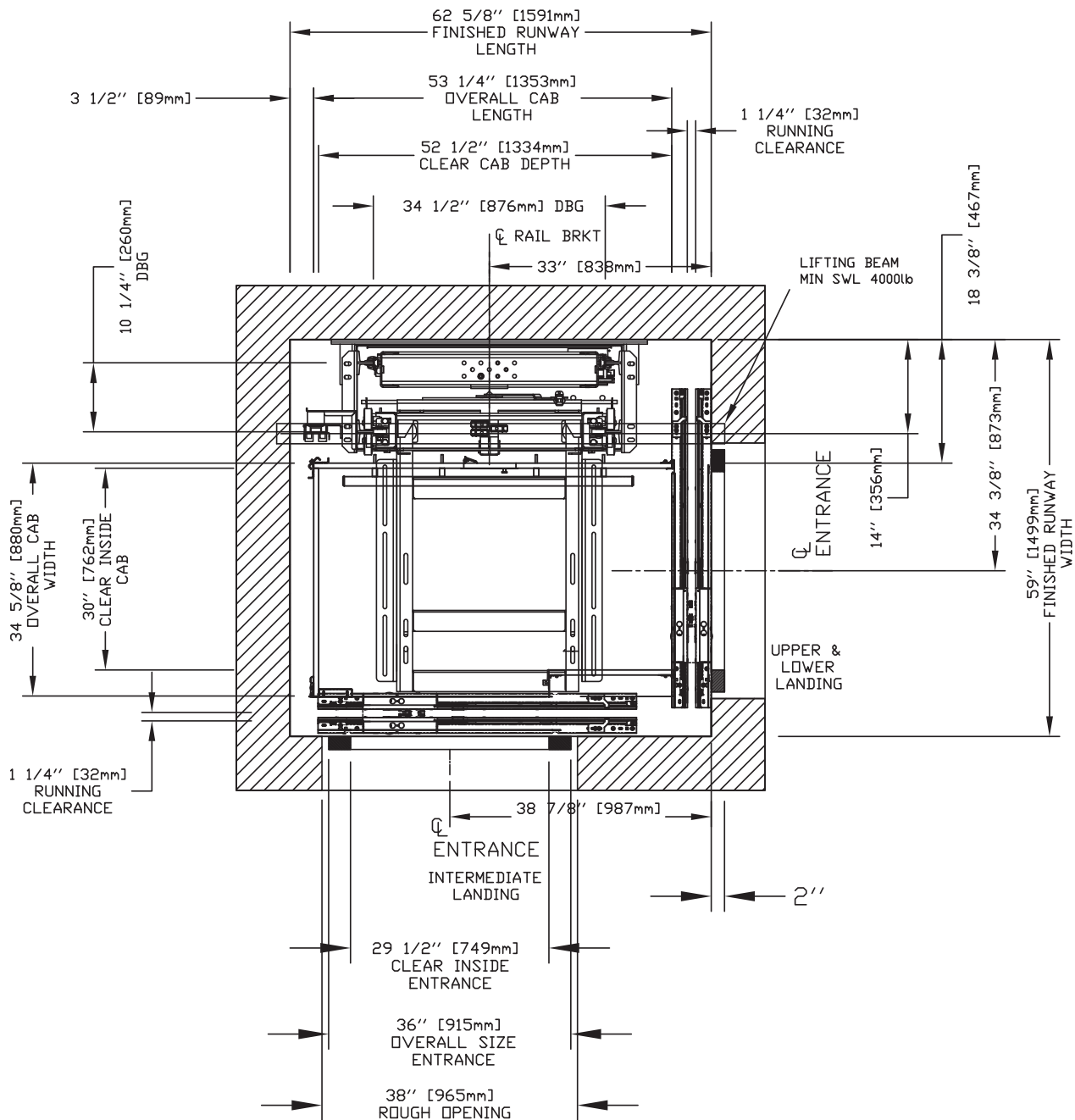


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 3 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

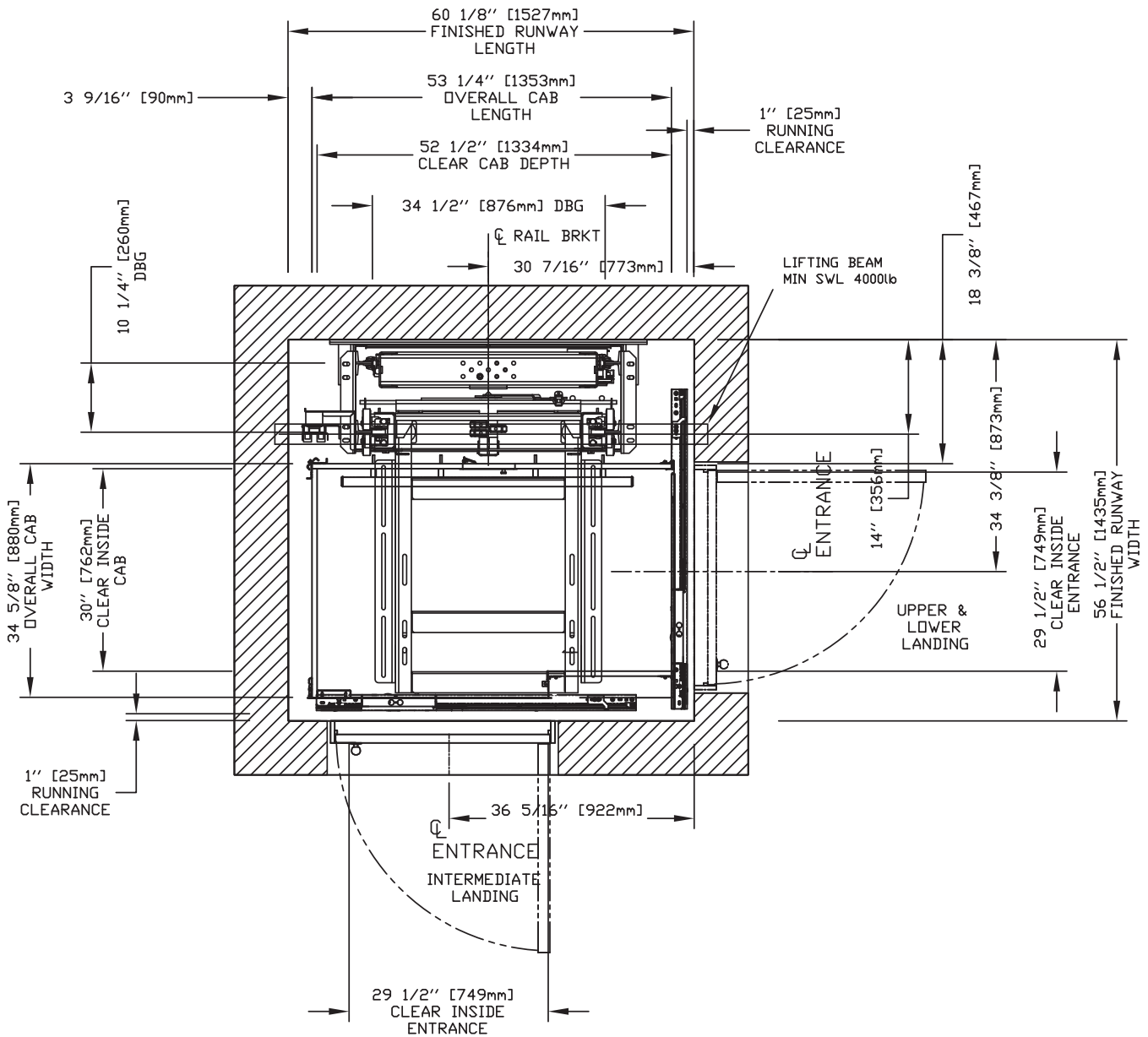


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 3 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

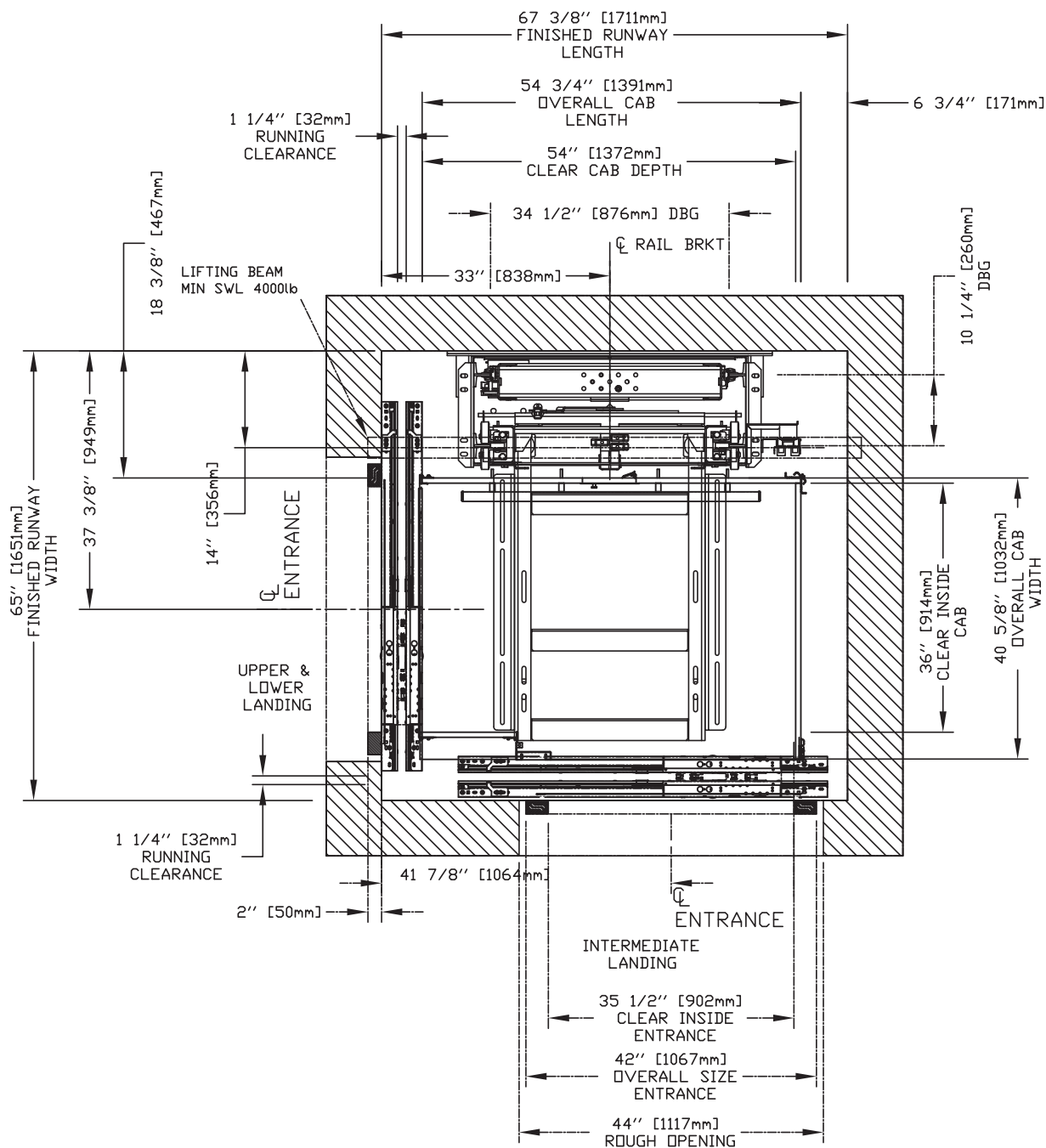


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 4 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall.
 Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

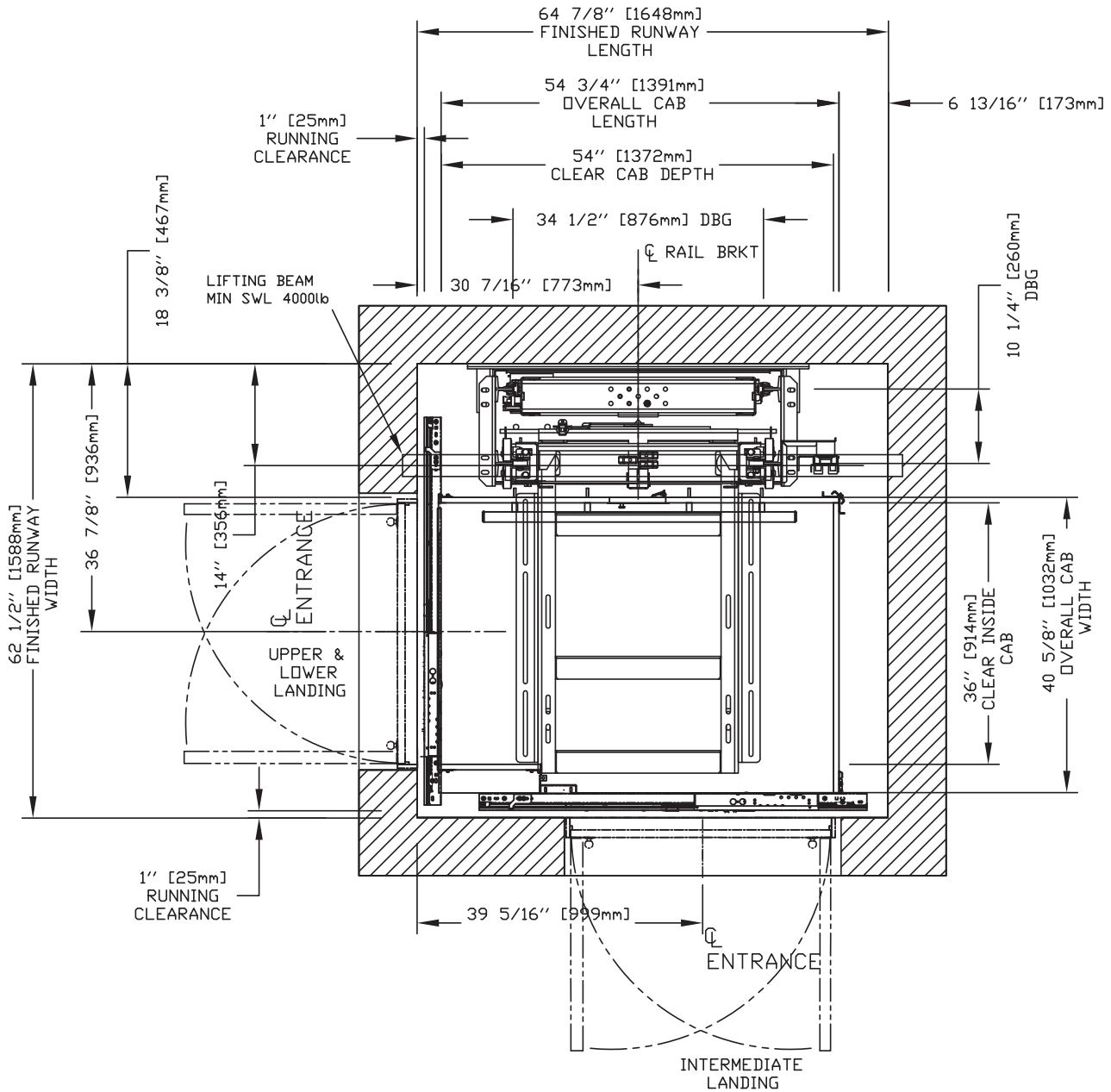


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 4 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

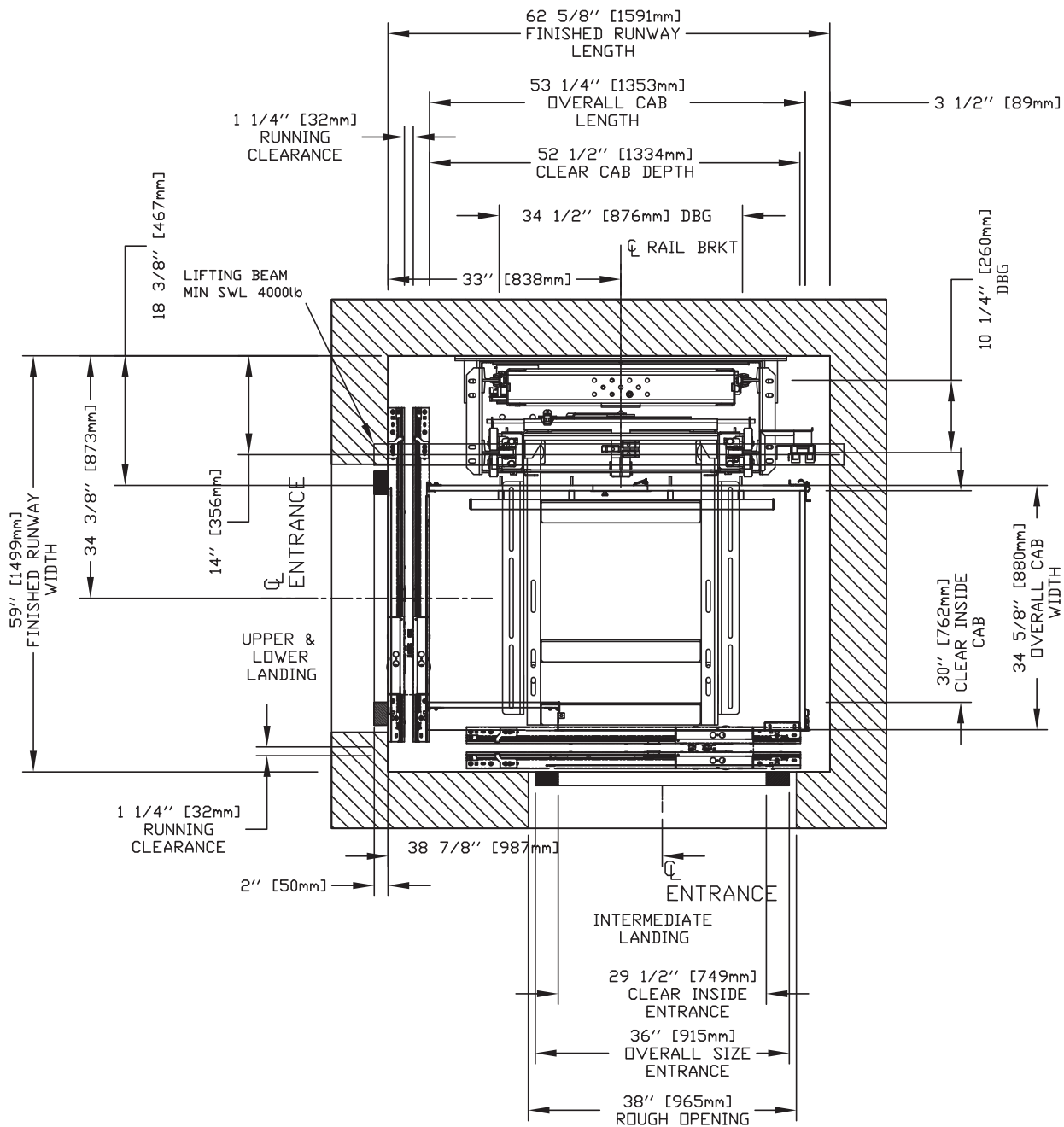


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 4 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

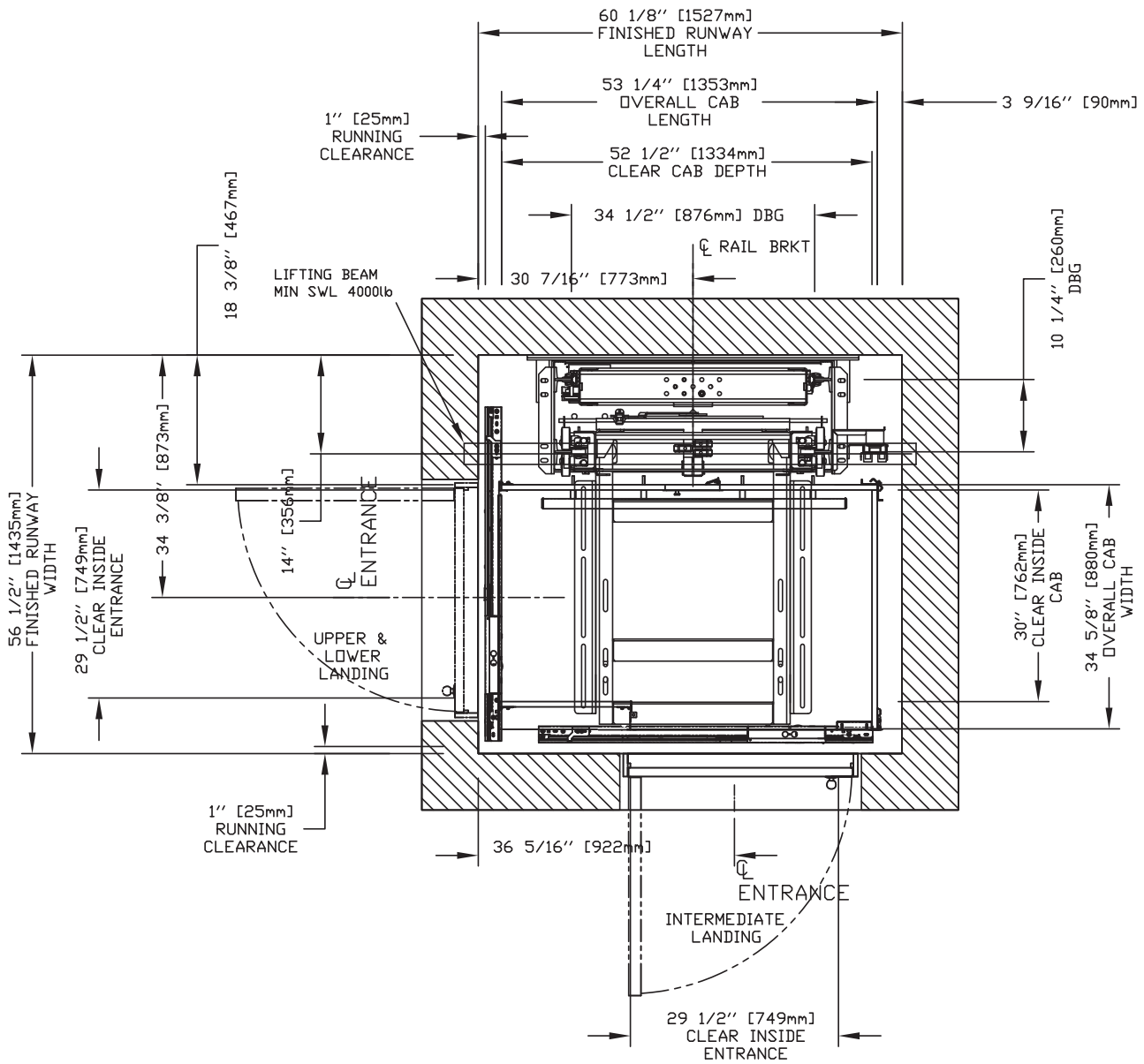


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 4 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of
sheet rock. Build only from the final shop drawings specific to your
installation.

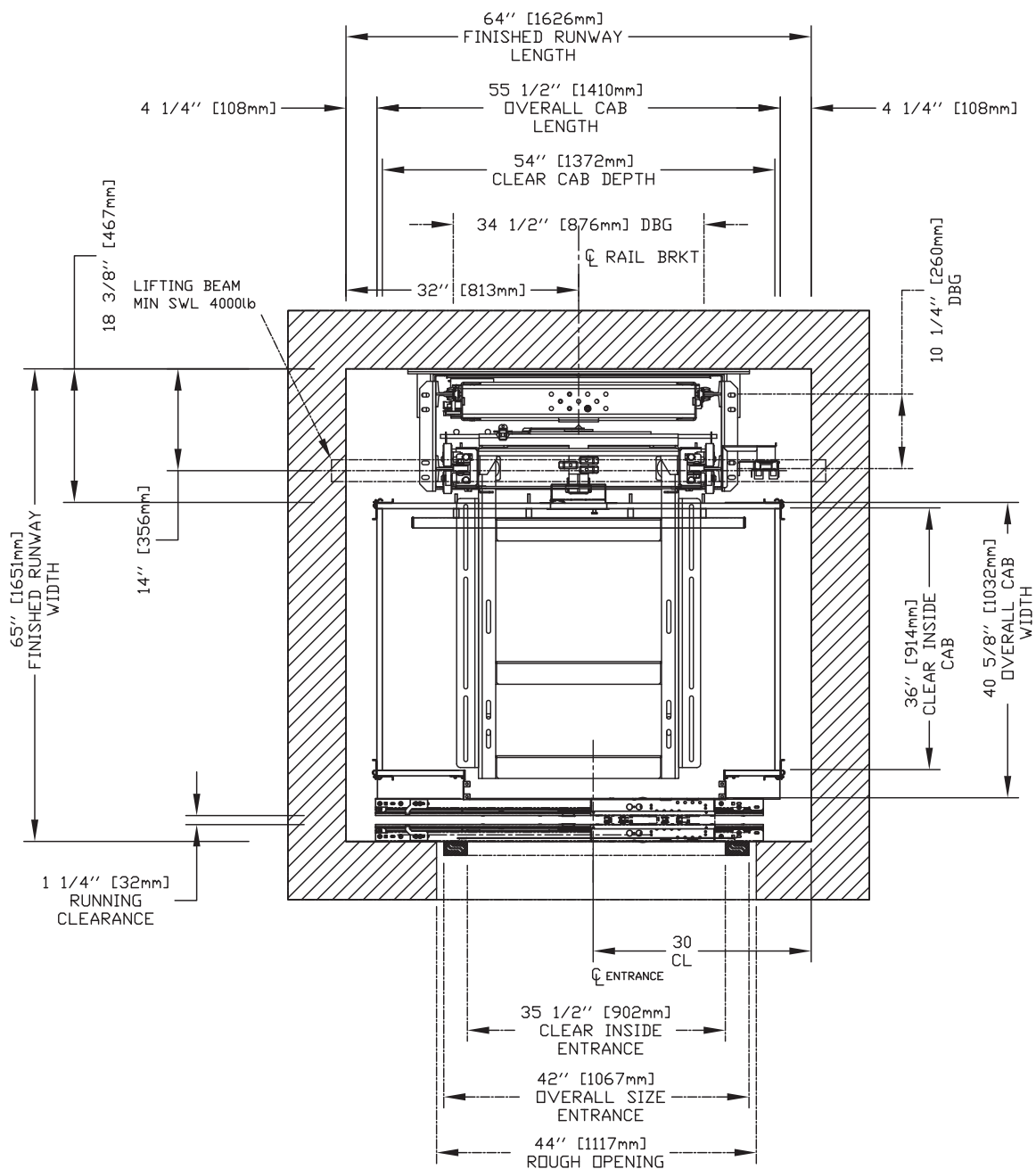


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 5 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

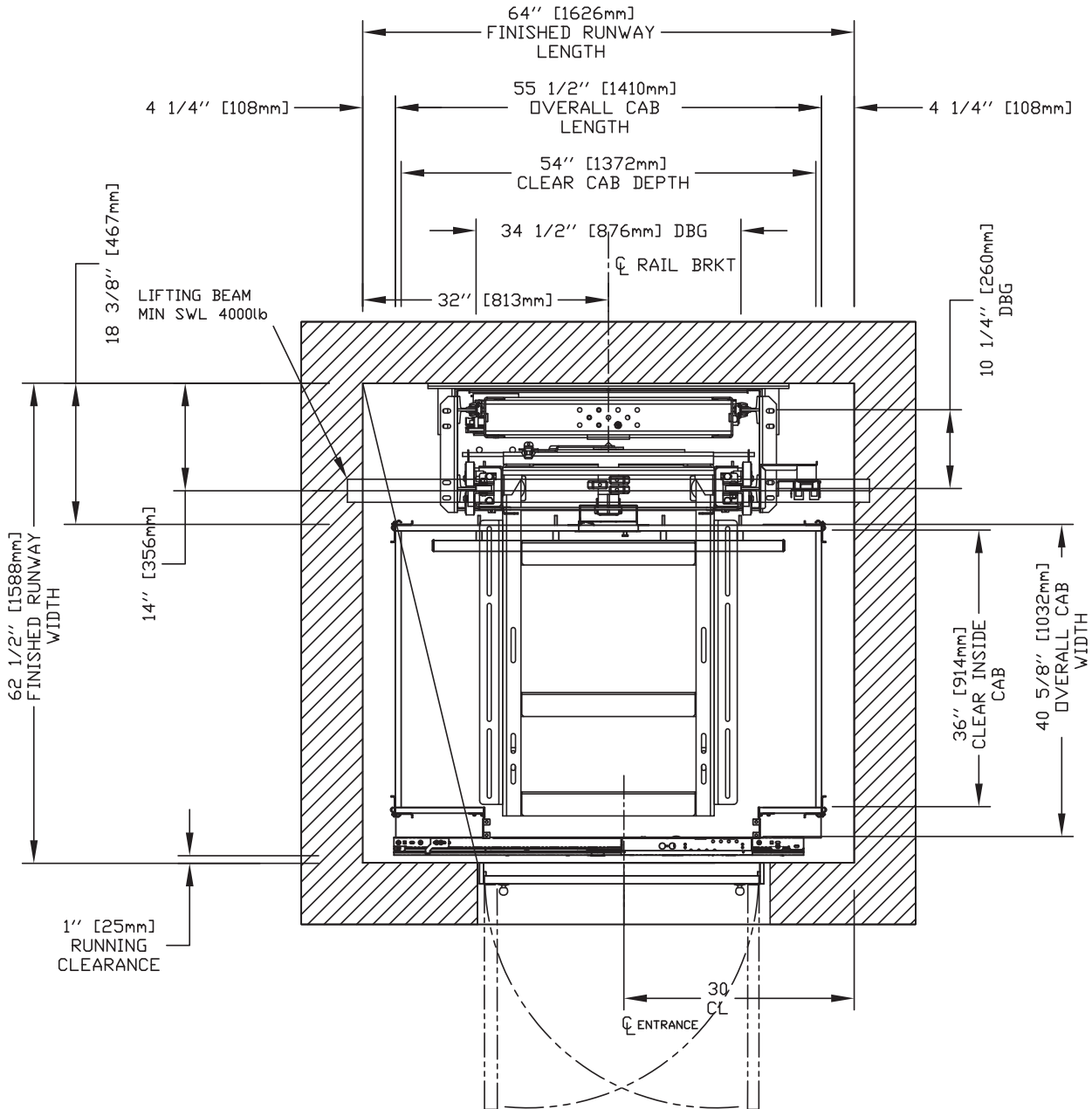


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 5 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

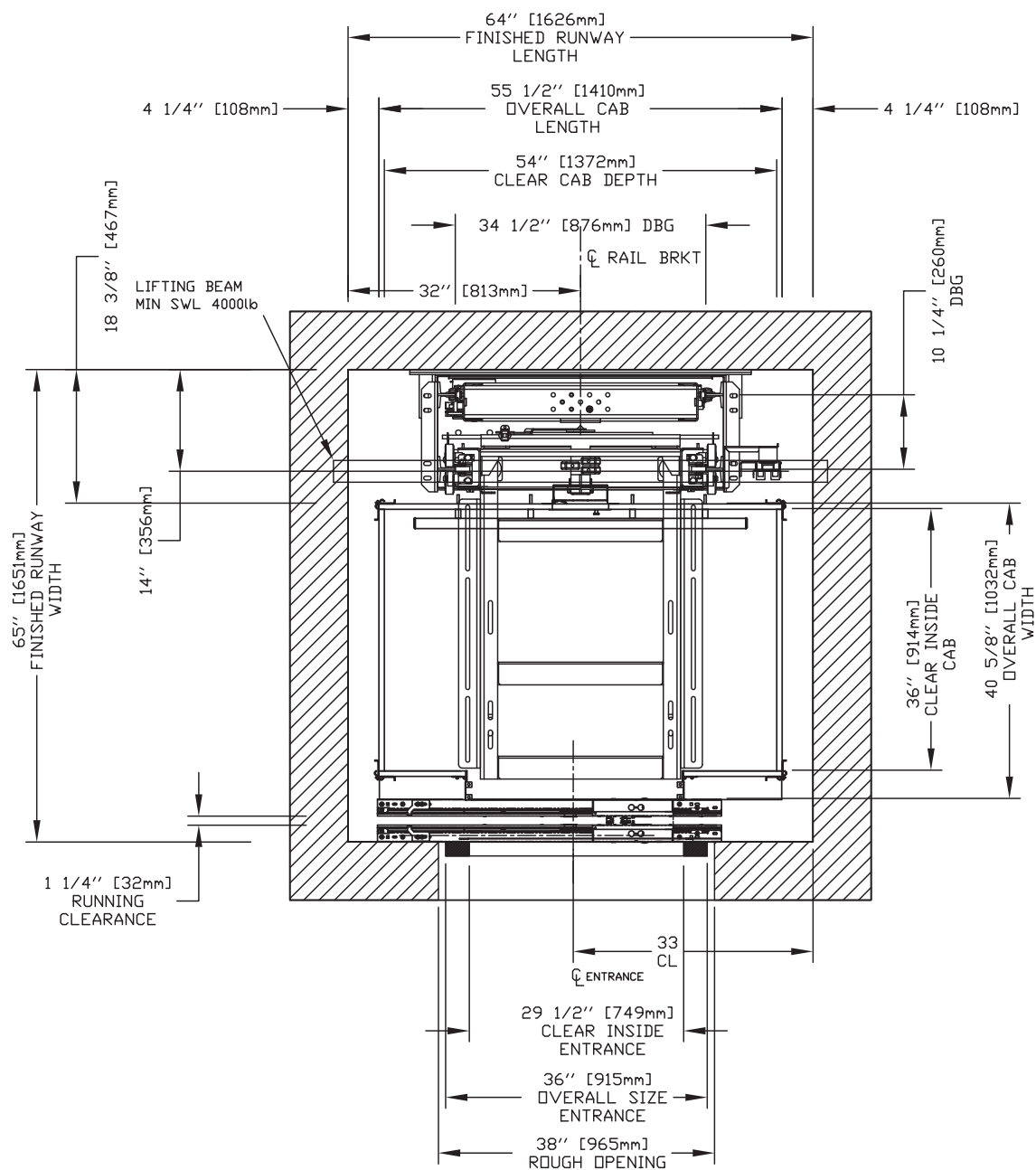


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 5 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

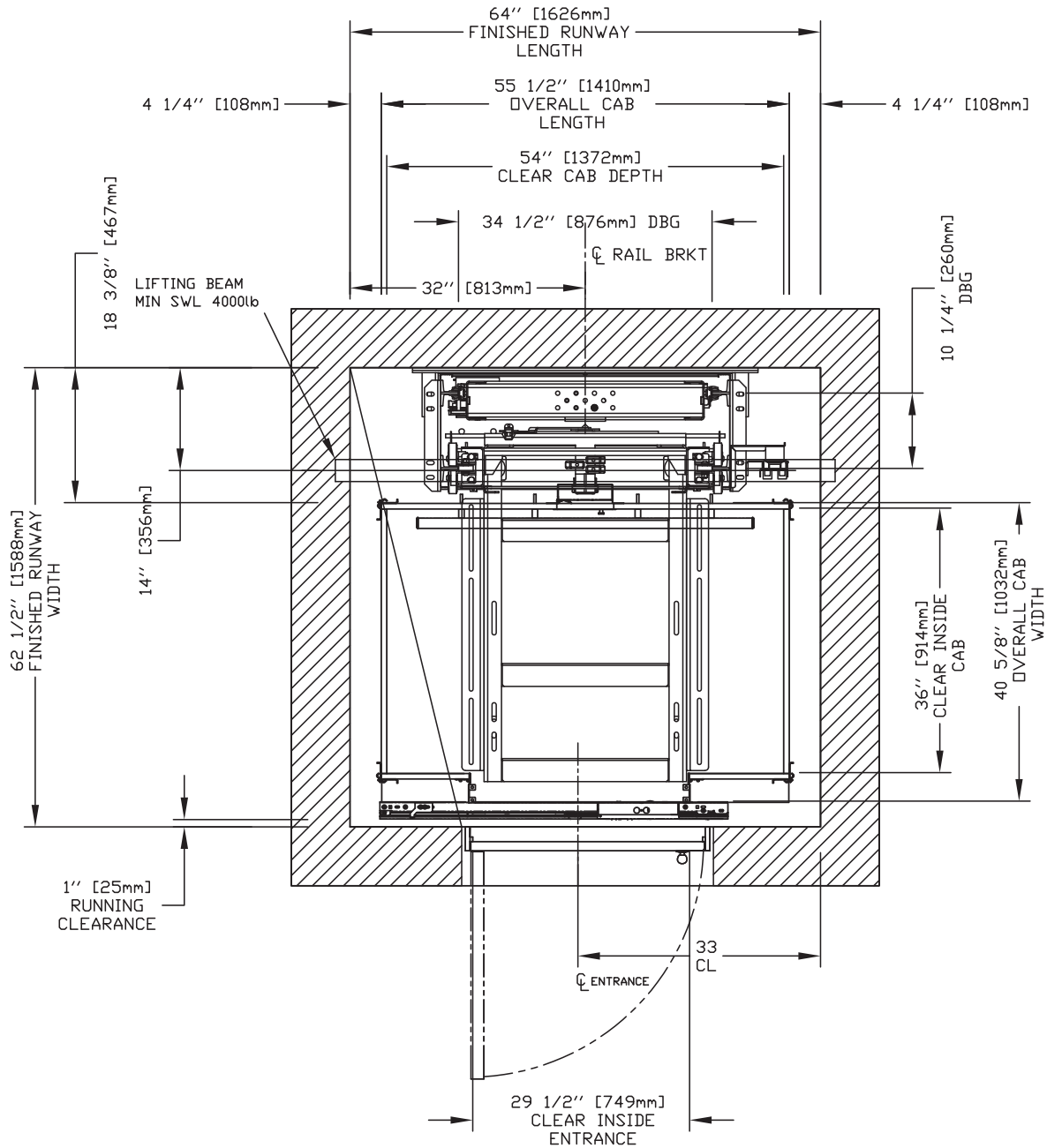


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 54" Type 5 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

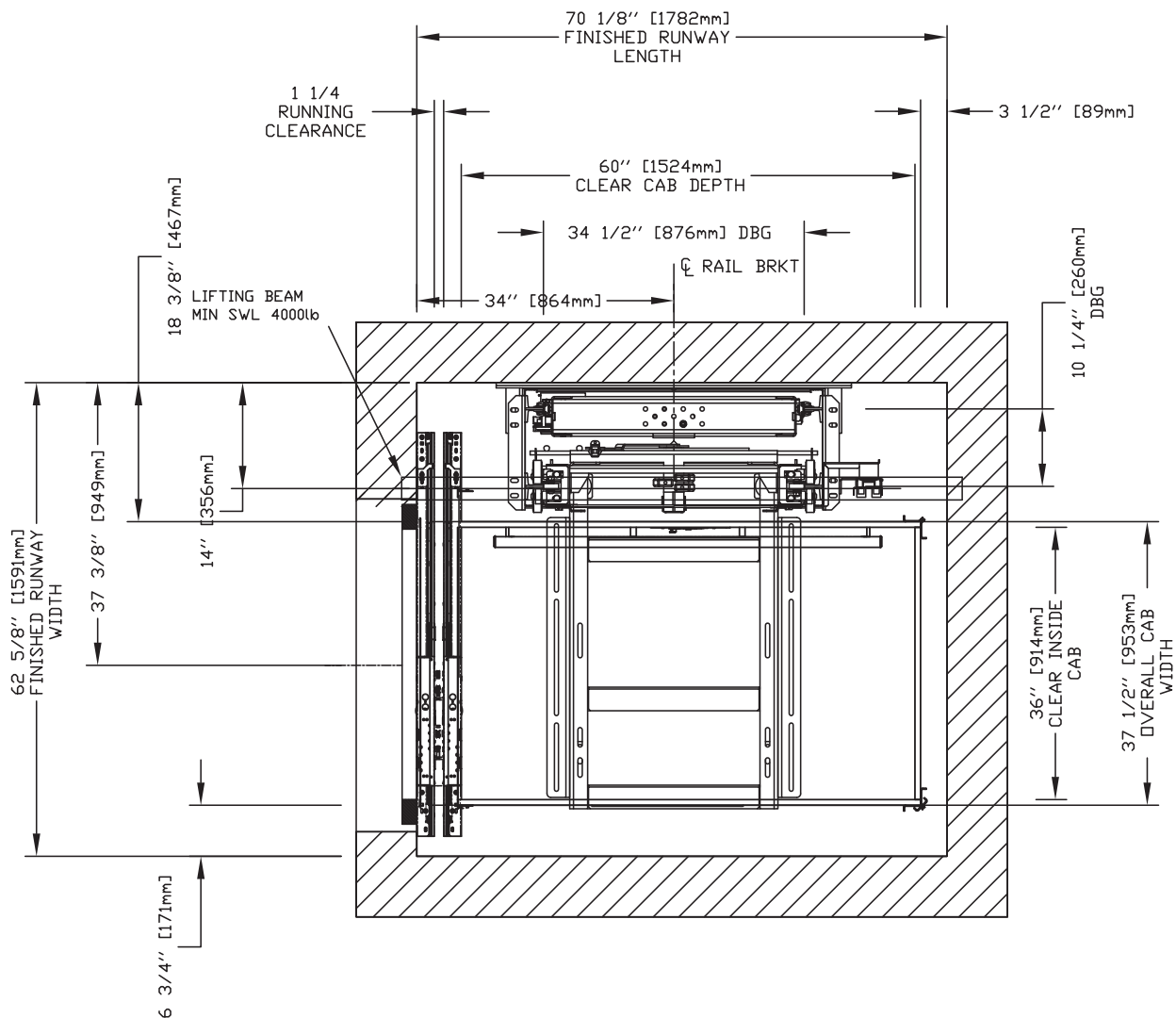


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1L Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

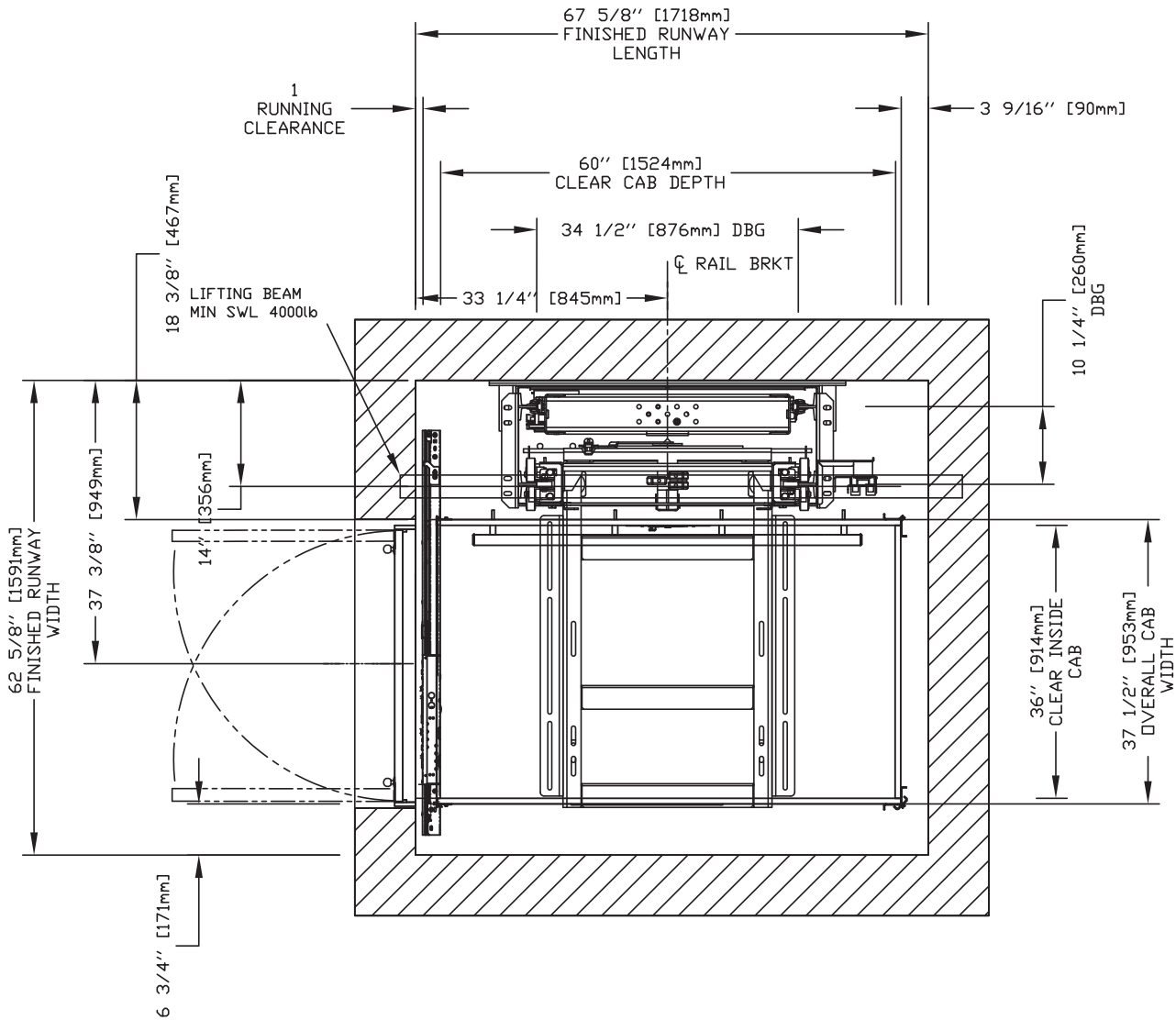


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1L Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

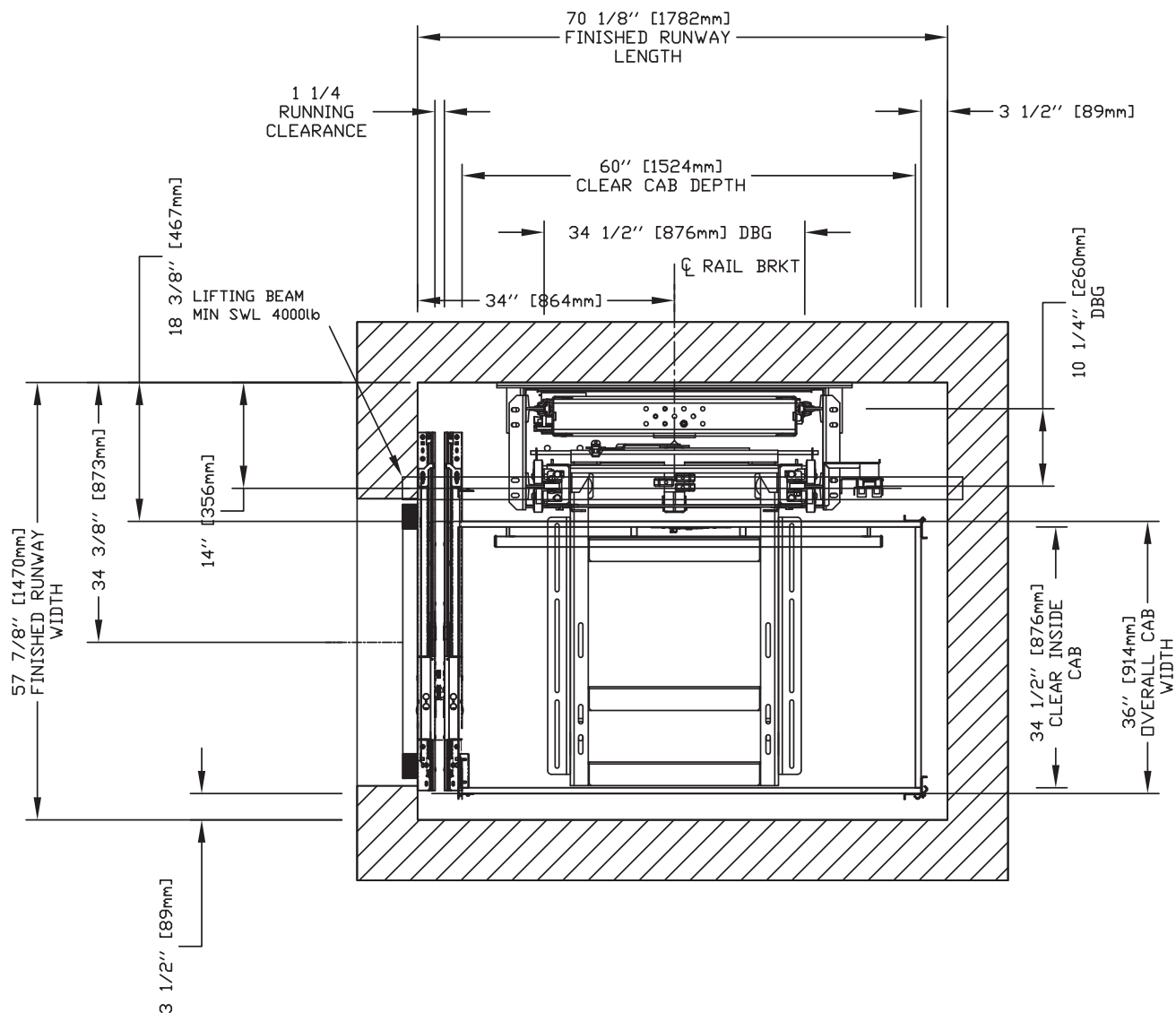


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1L Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

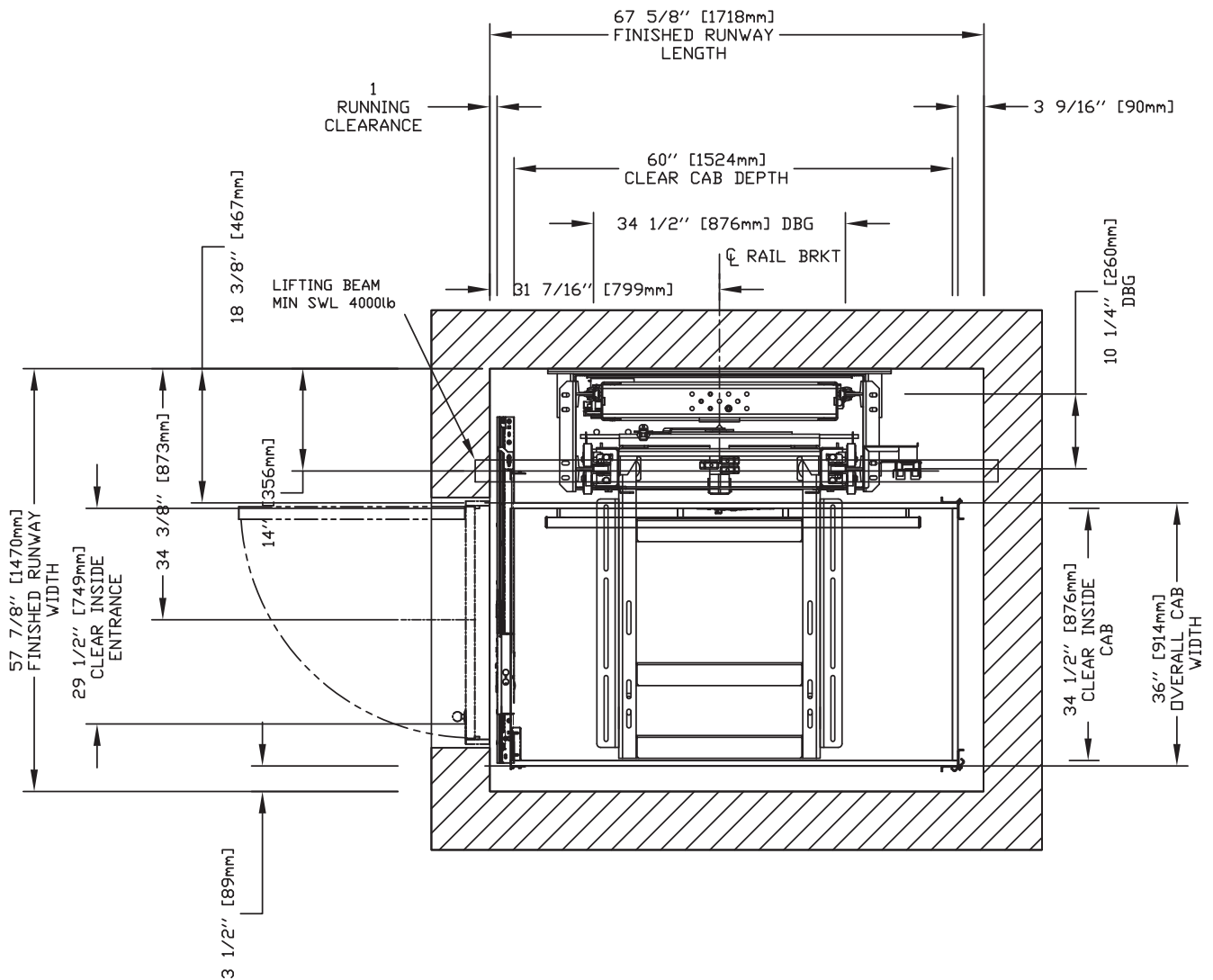


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1L Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

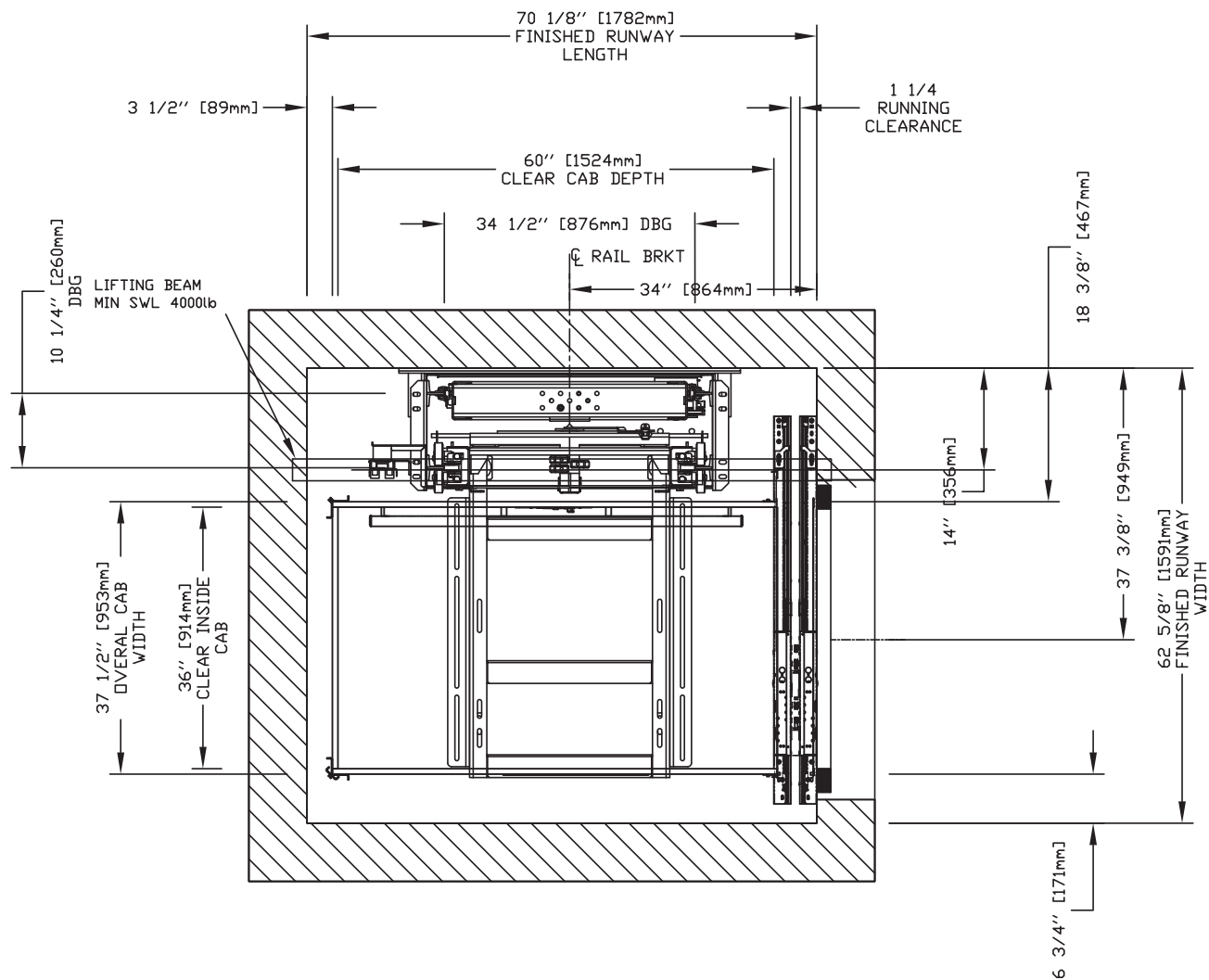


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1R Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

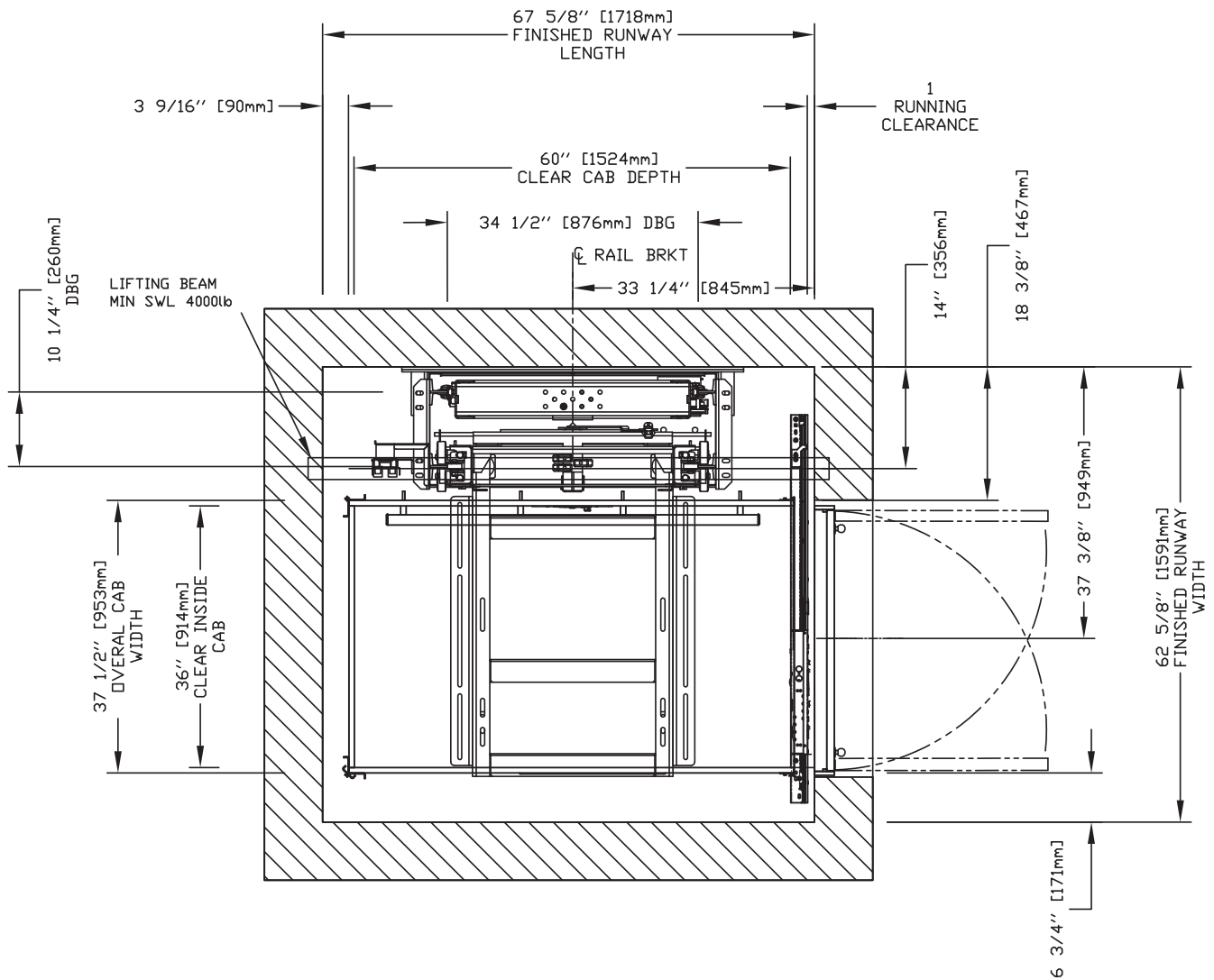


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1R Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

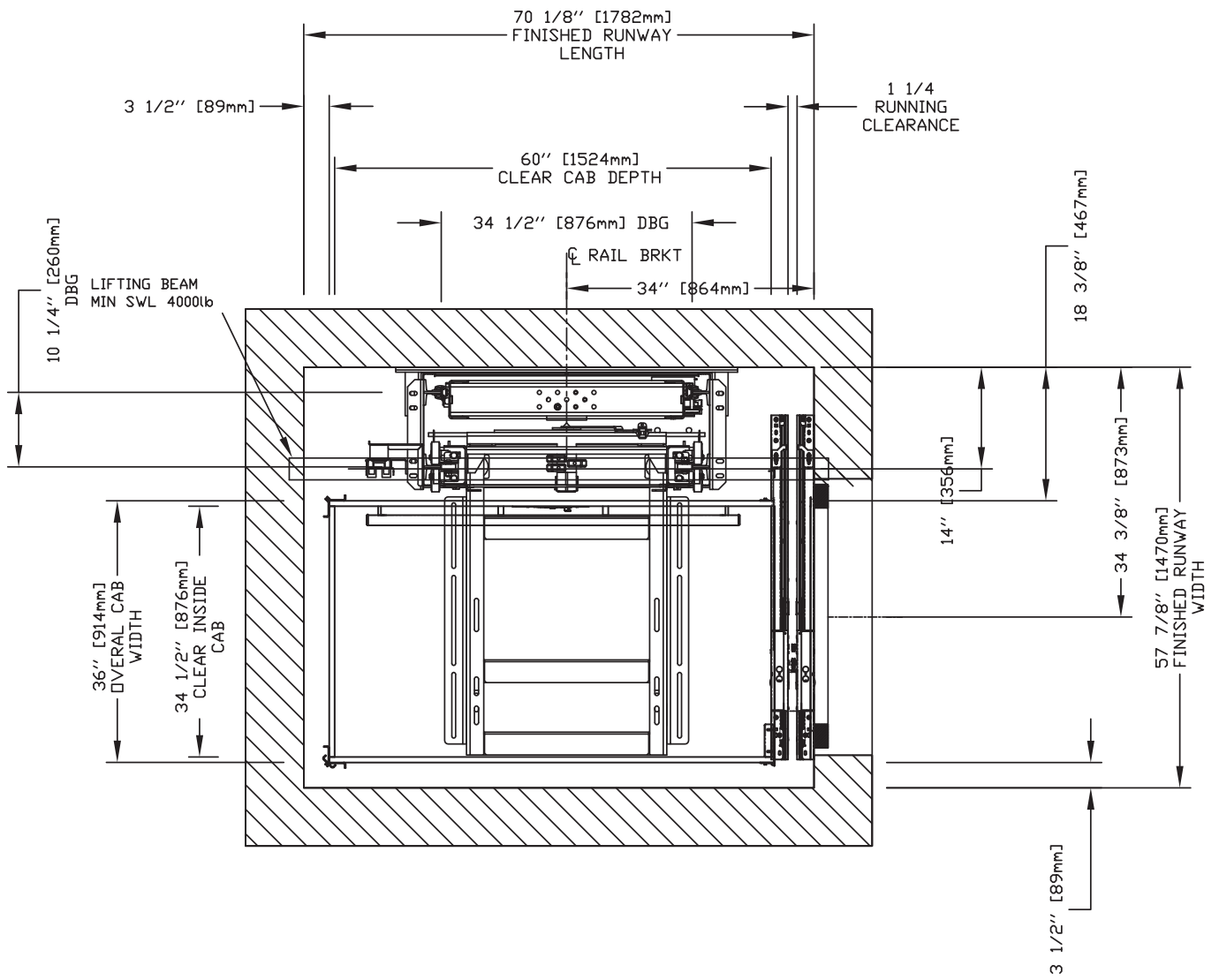


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1R Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

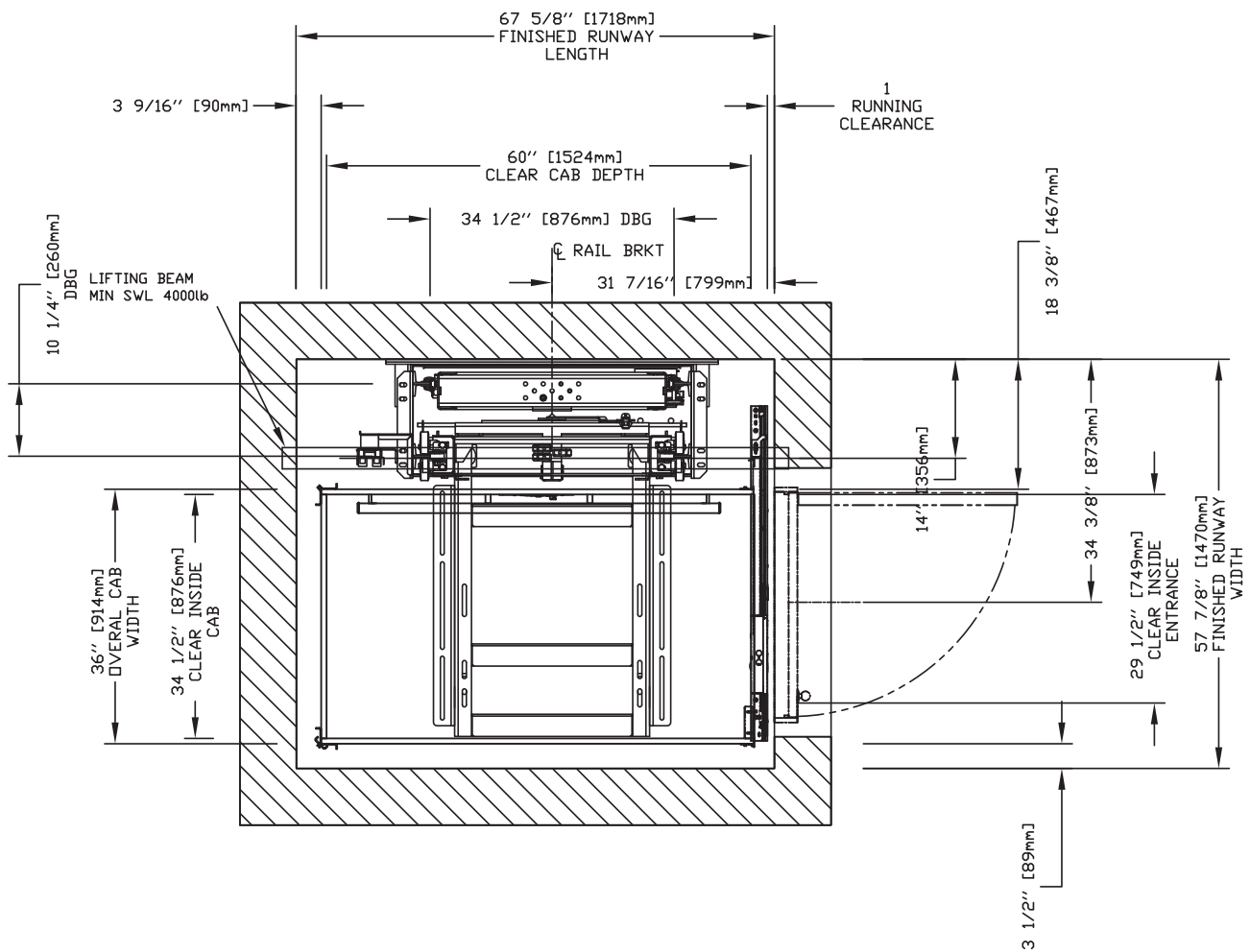


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 1R Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

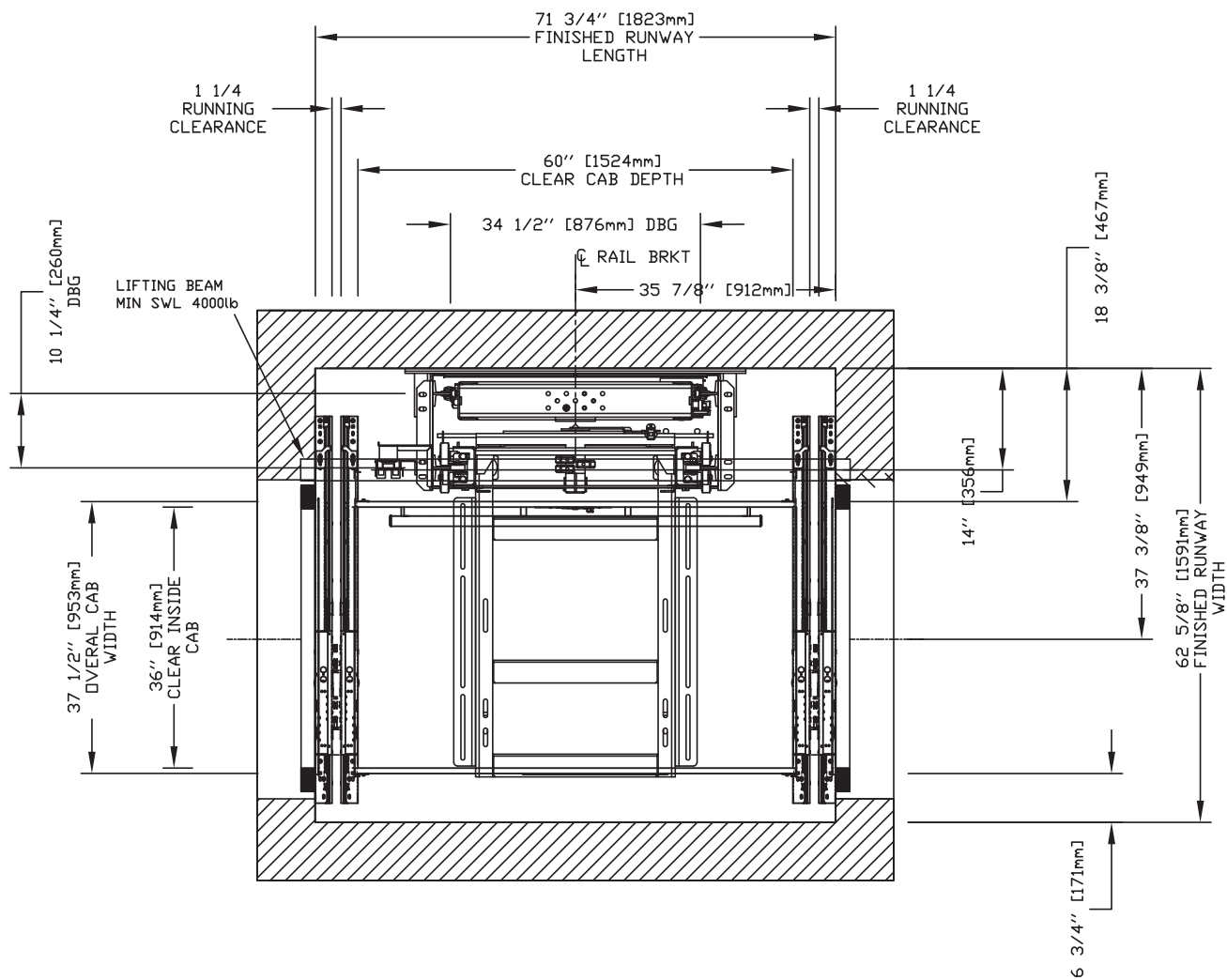


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 2 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

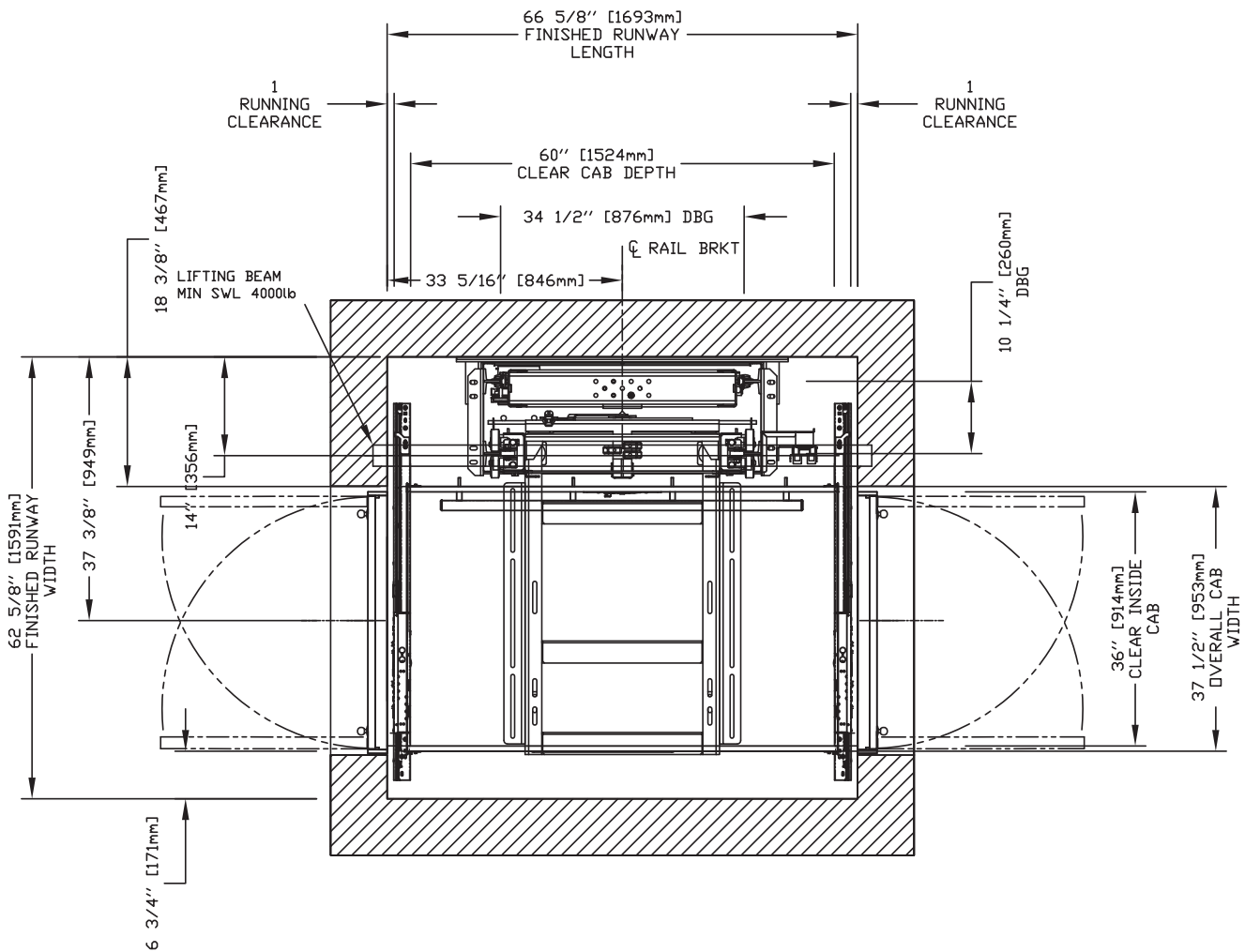


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 2 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

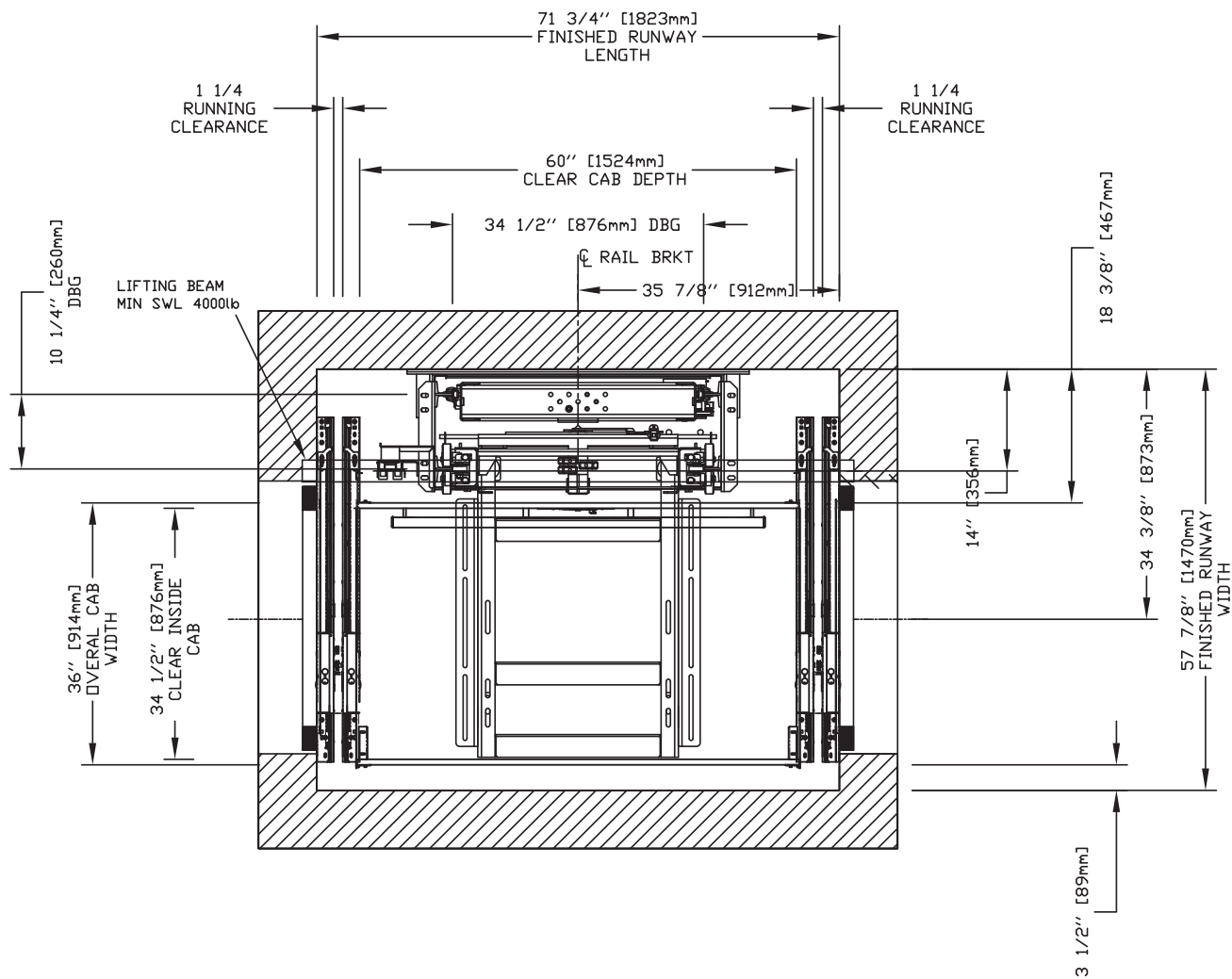


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 2 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

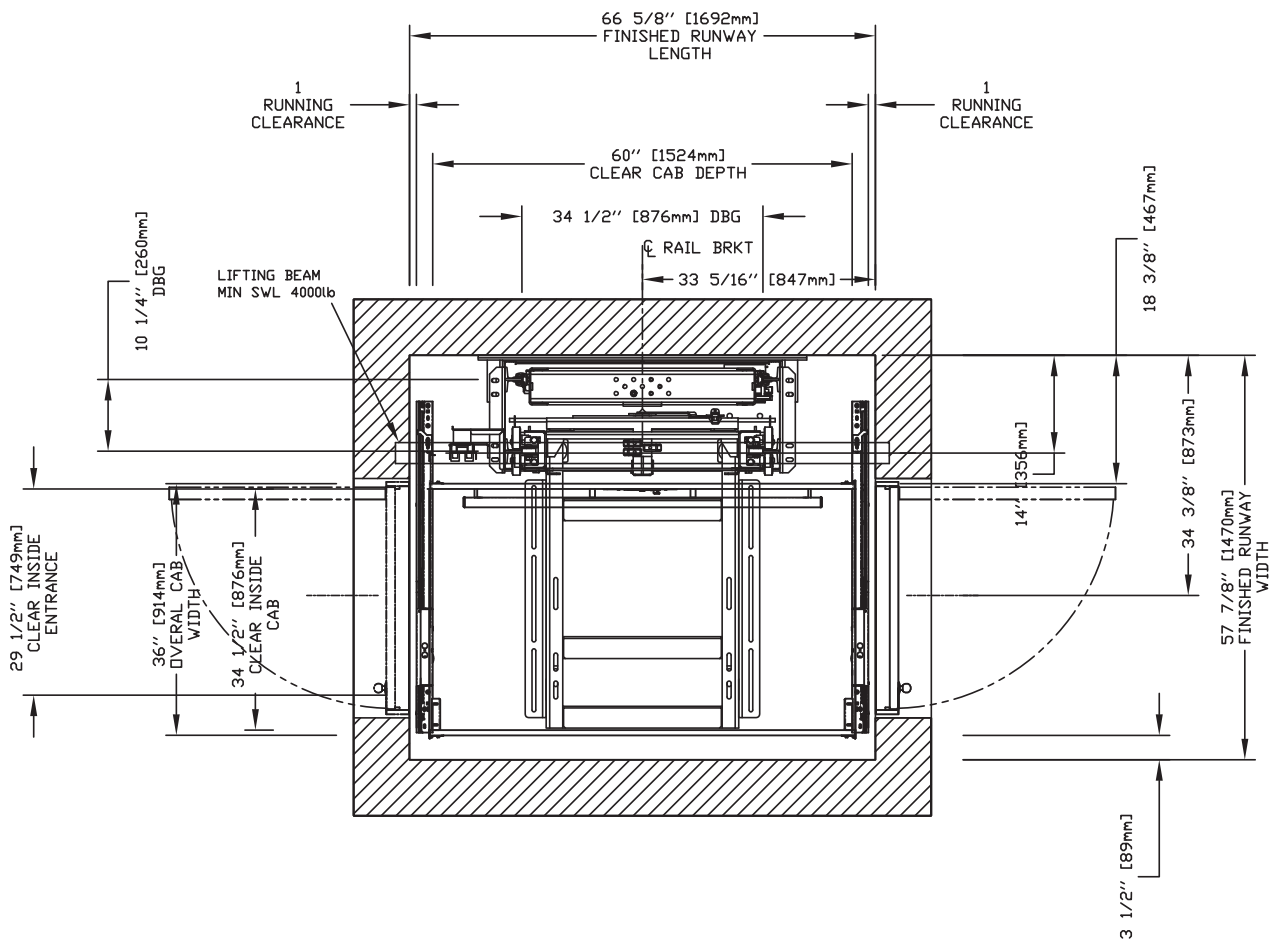


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 2 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

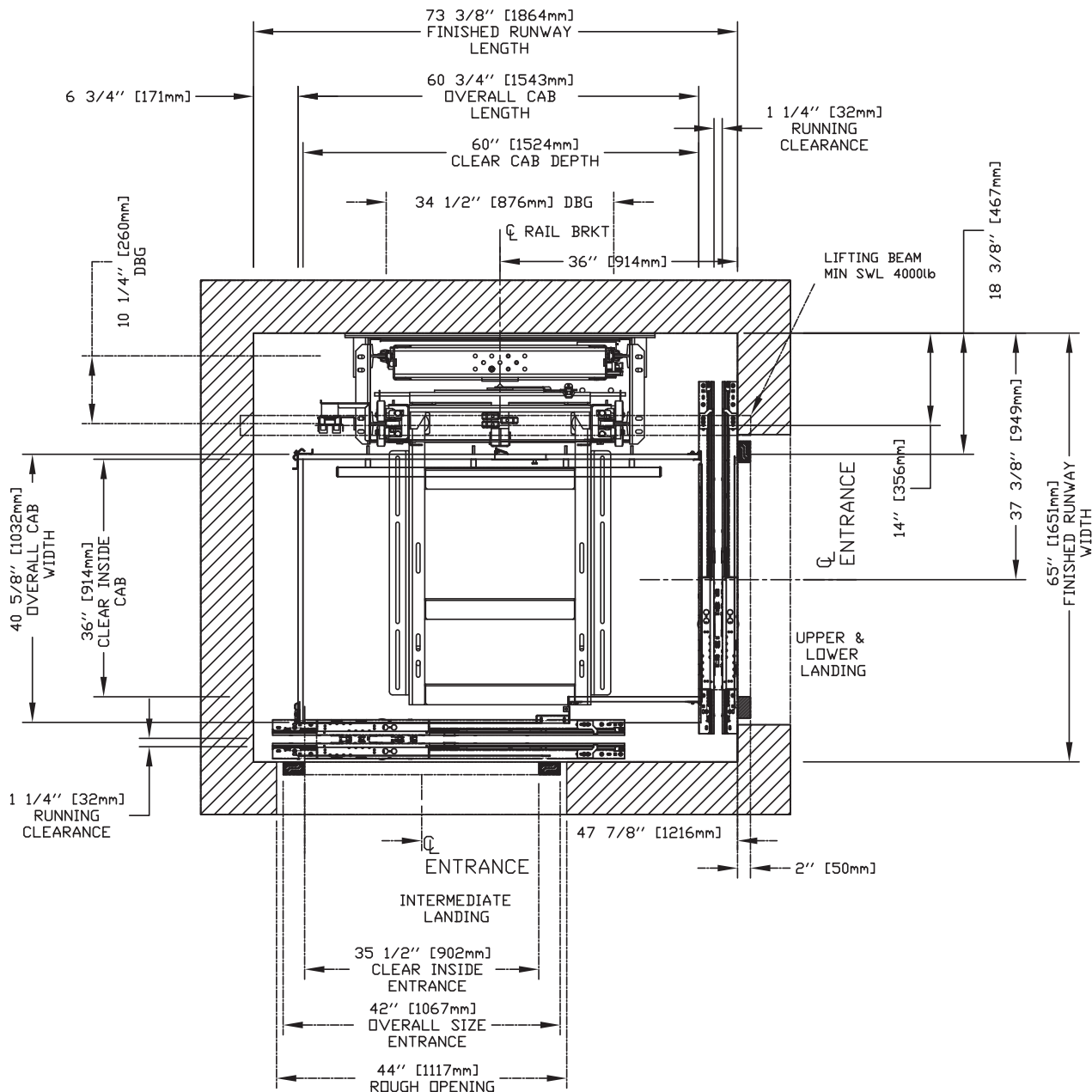


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 3 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

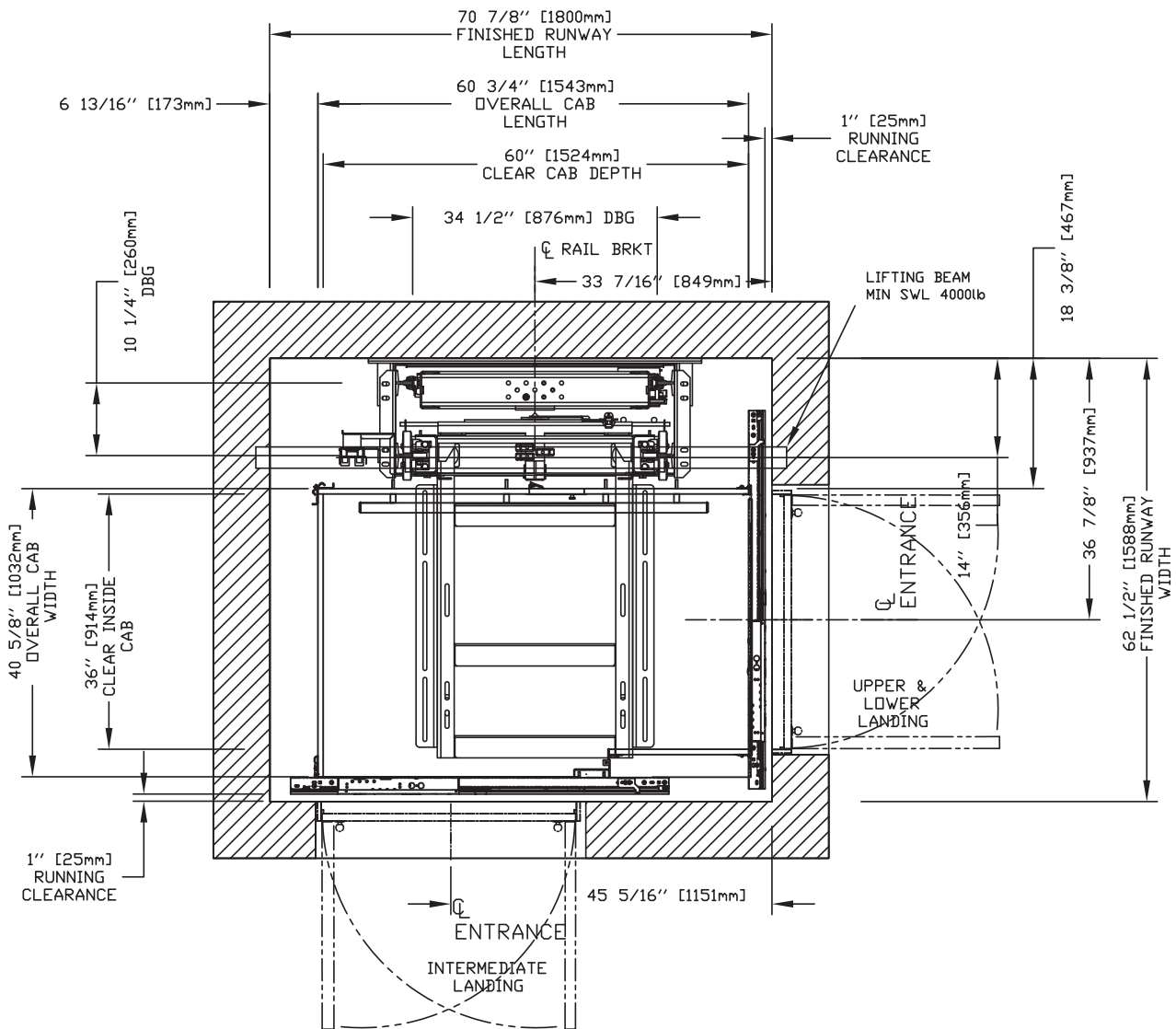


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 3 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of
sheet rock. Build only from the final shop drawings specific to your
installation.

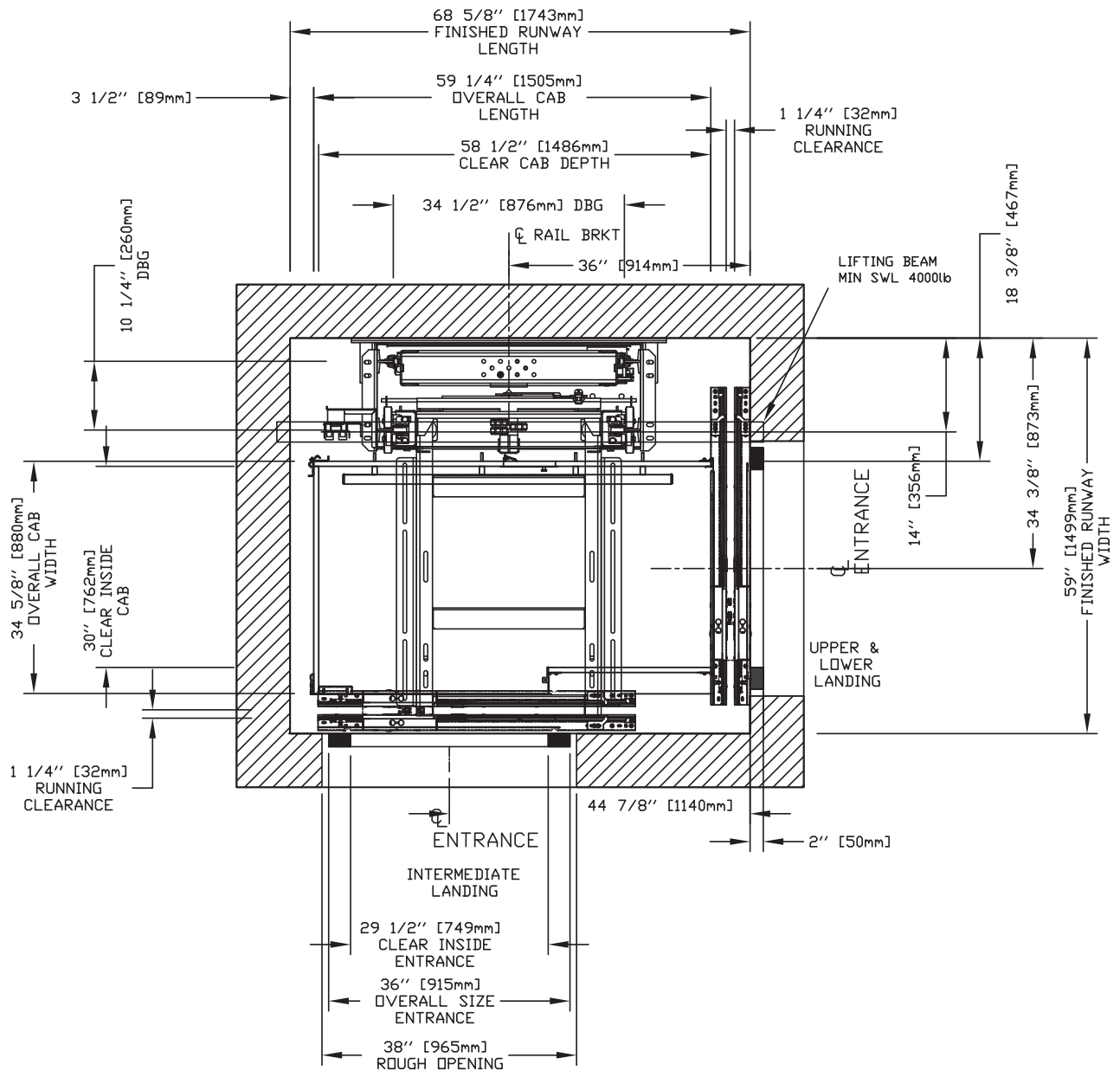


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 3 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

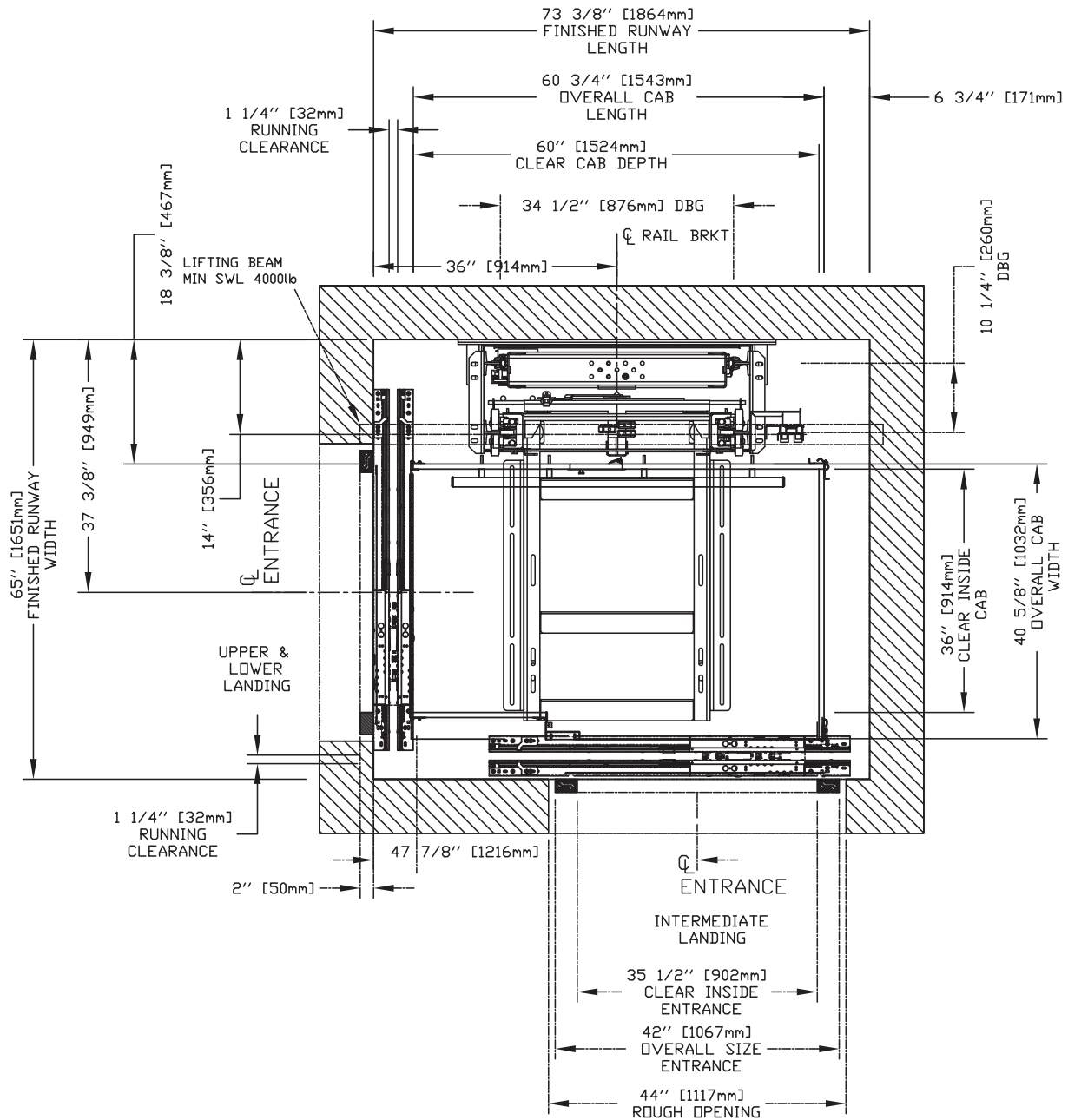


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 4 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

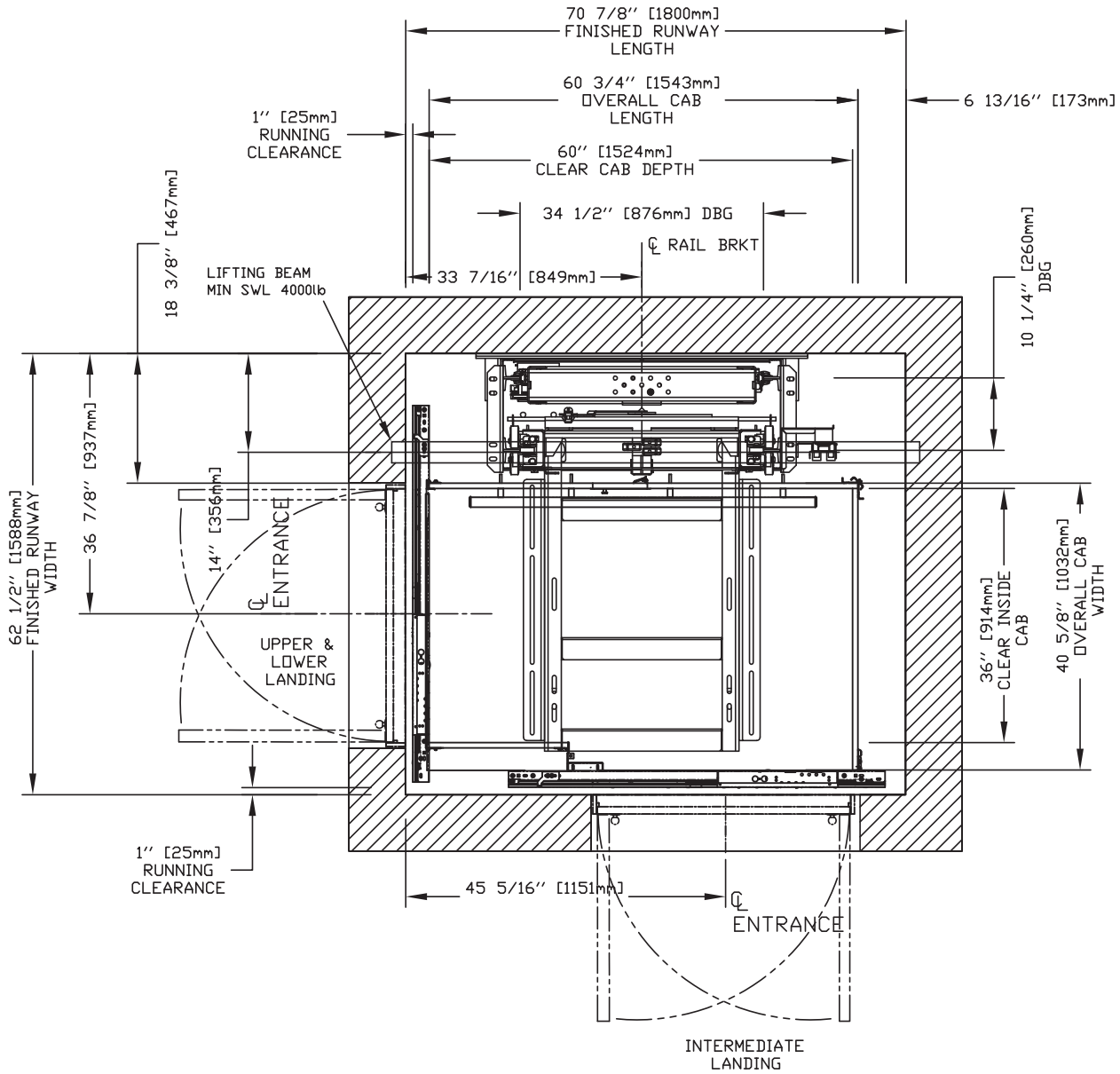


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 4 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

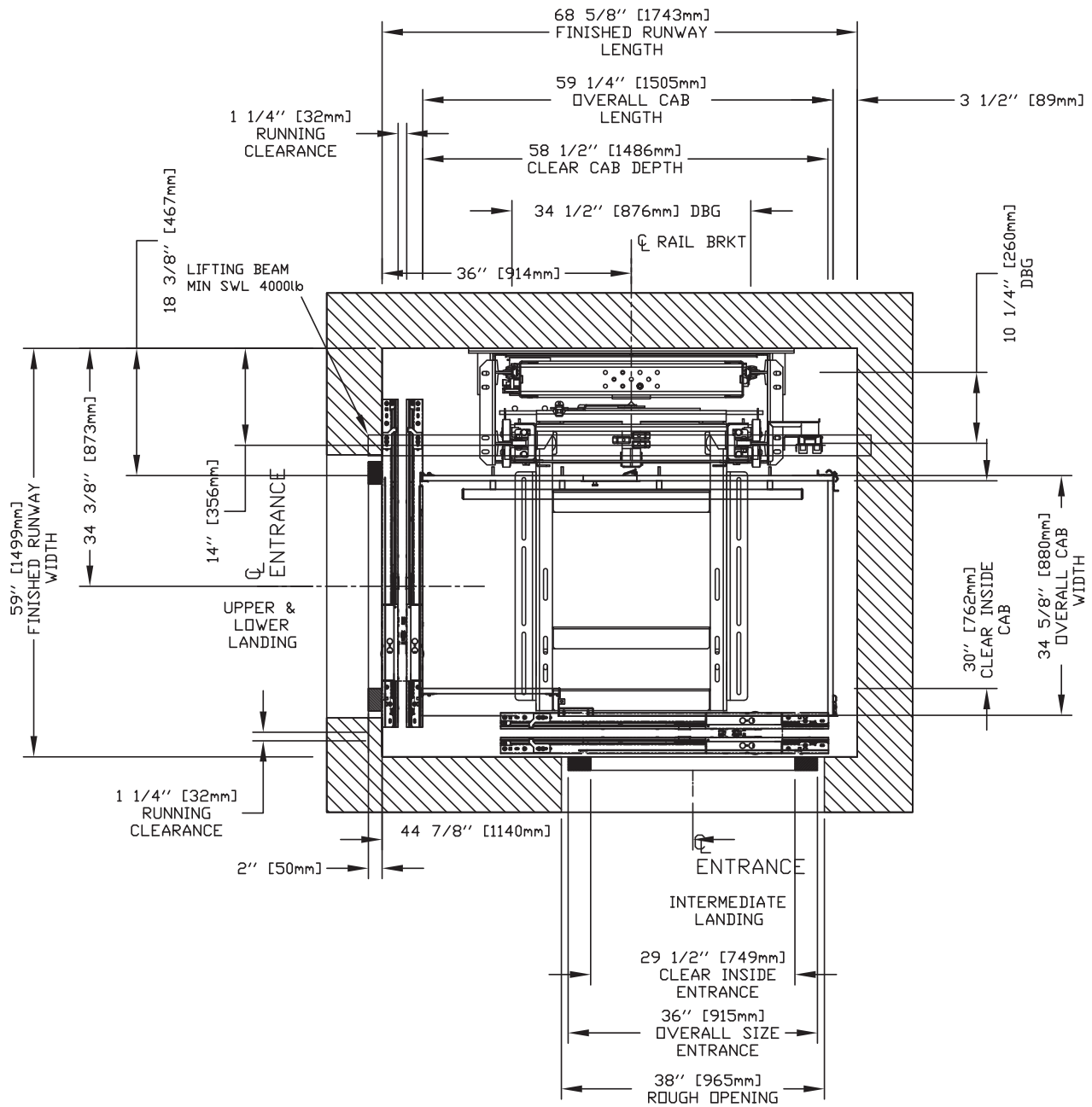


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 4 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

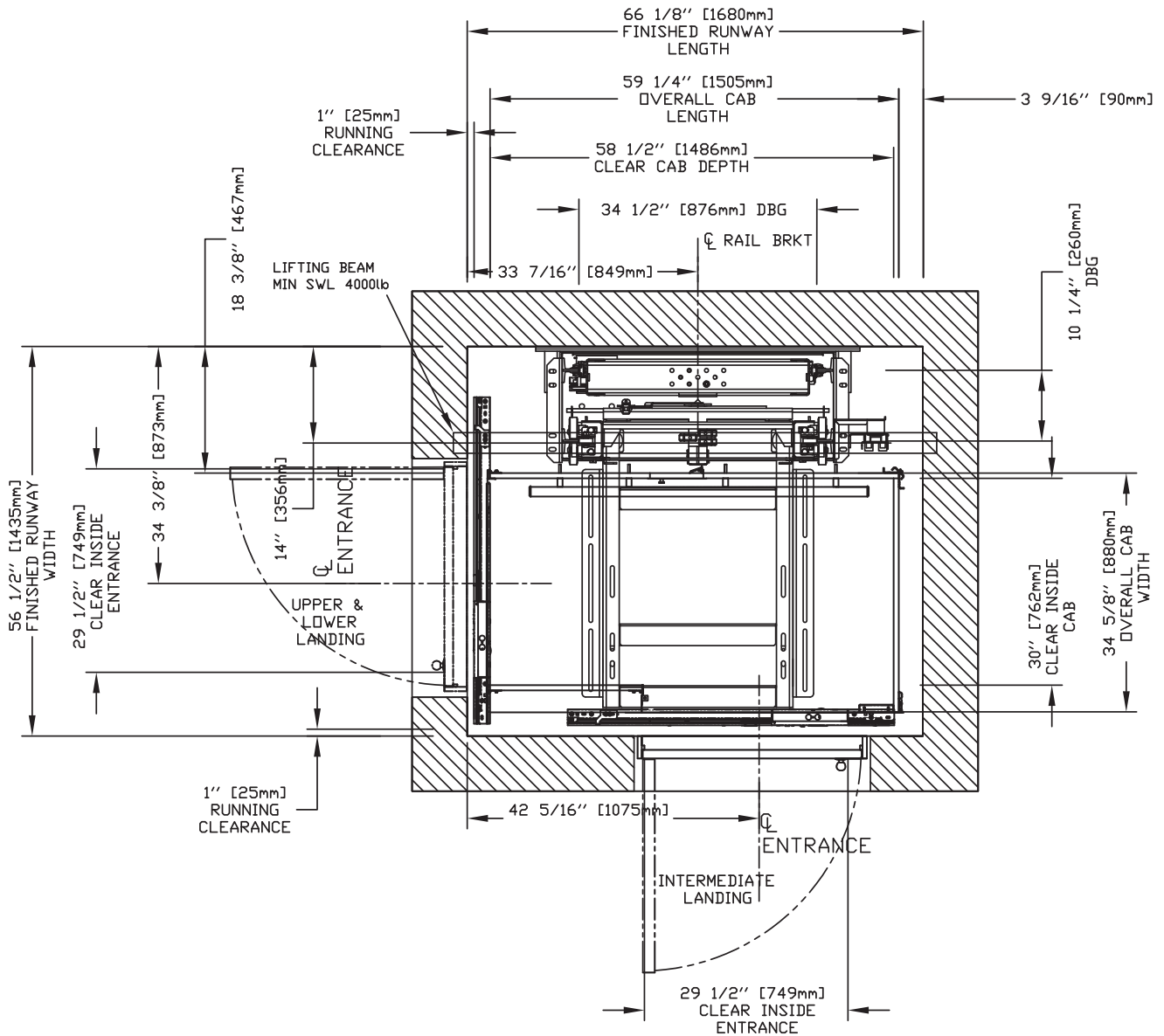


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 4 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

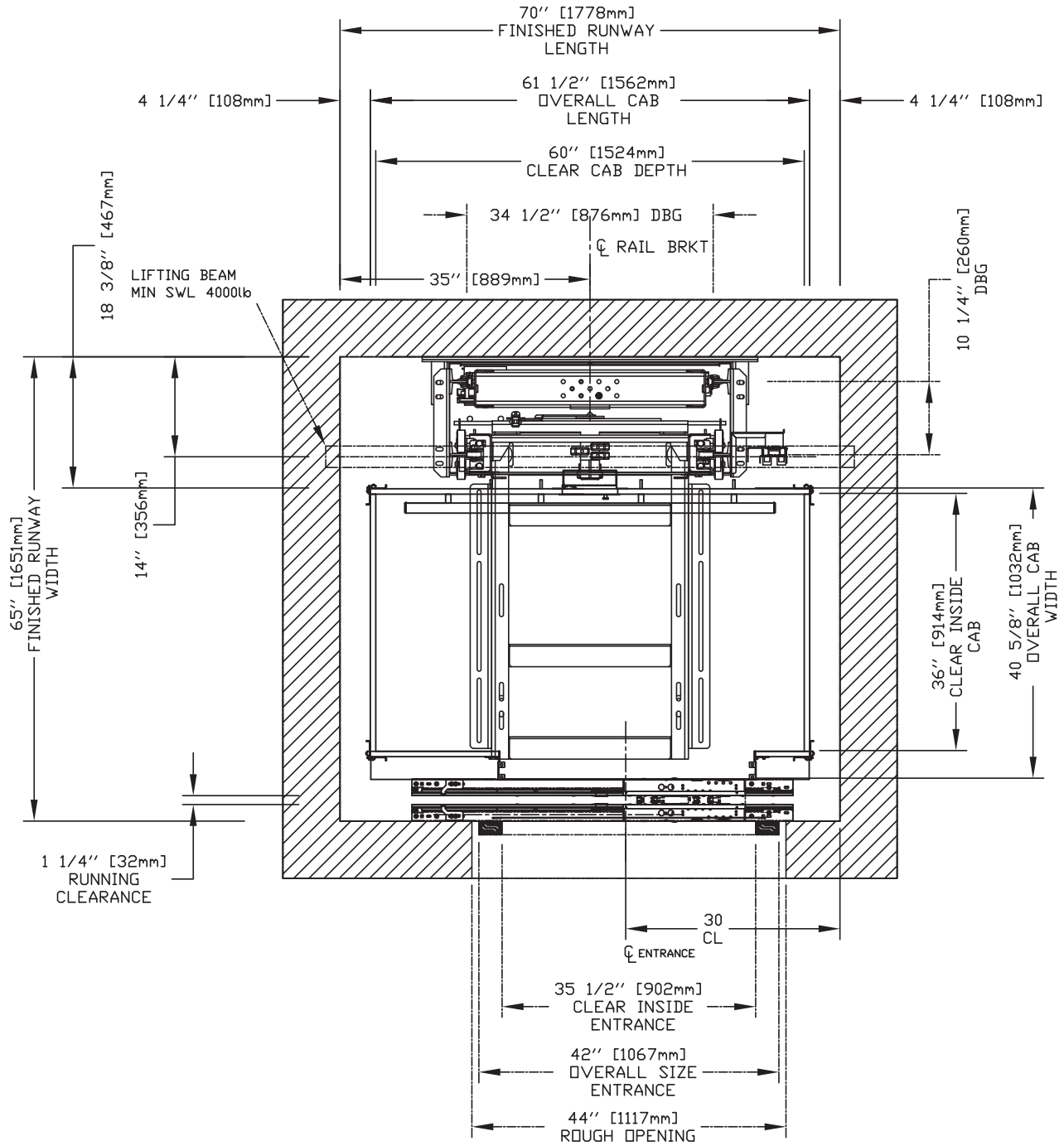


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 5 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

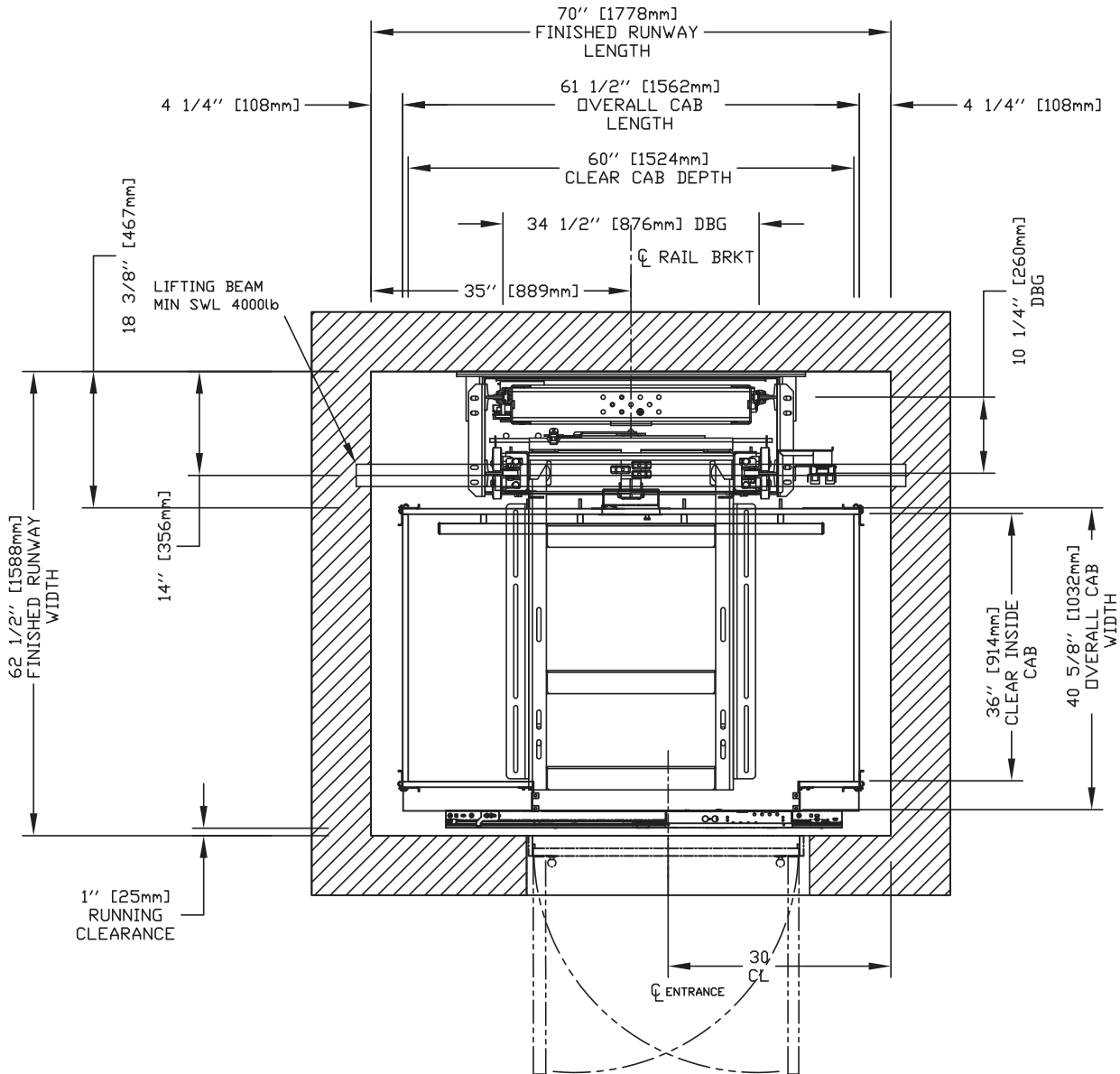


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 5 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

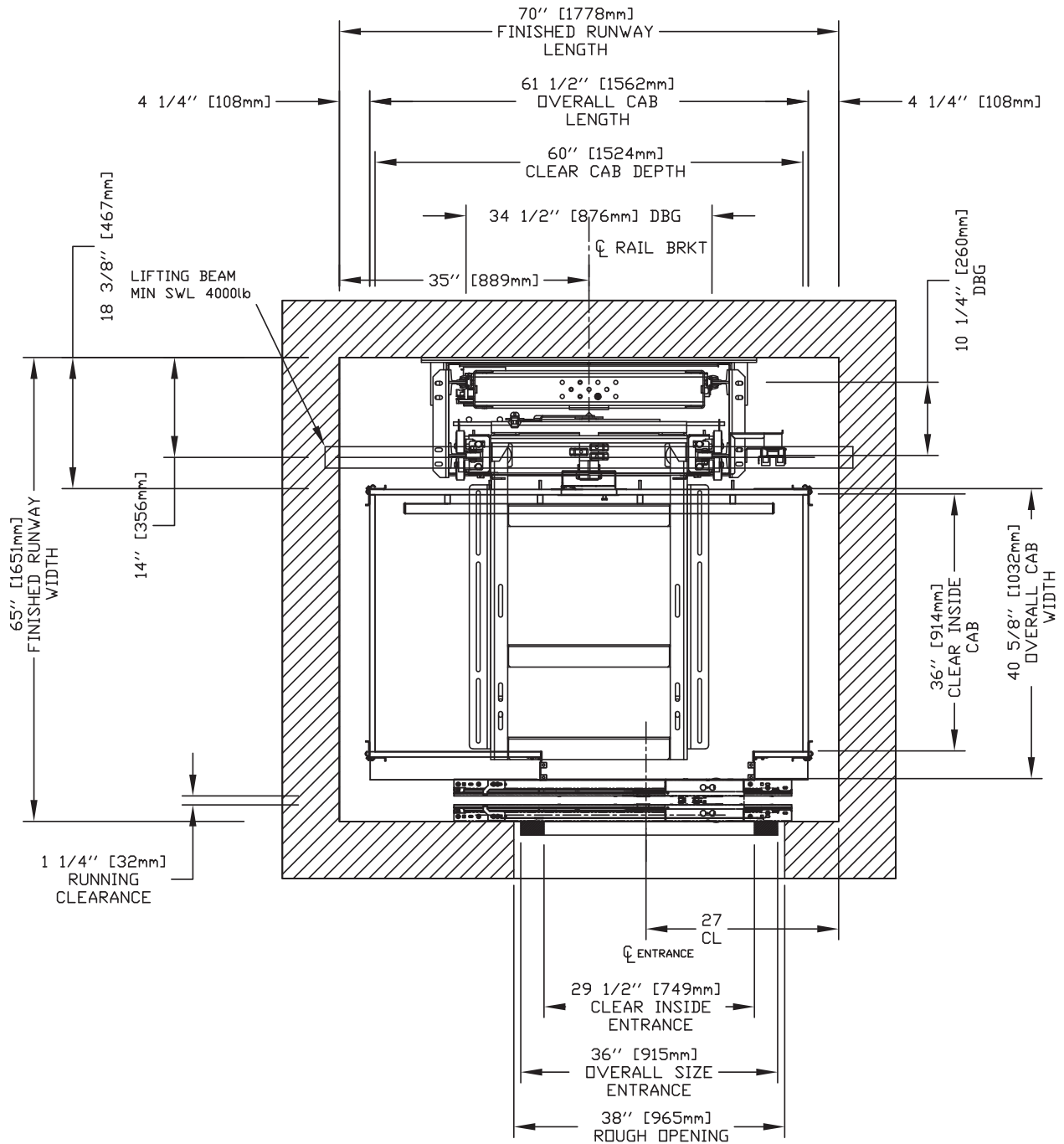


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 5 Cab, Auto Slim (29.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

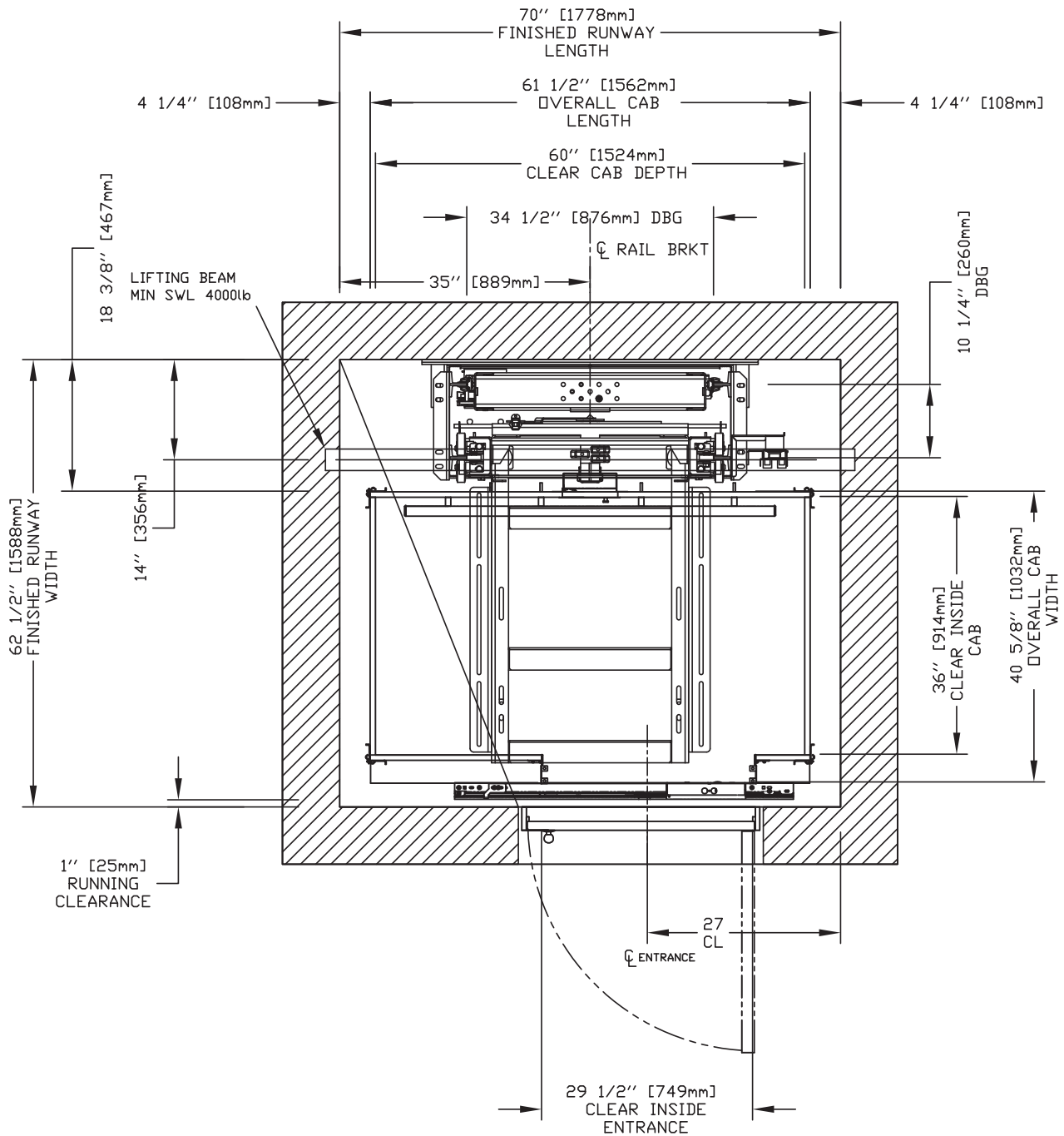


NOTE: The cab dimensions provided are based on a PLAM cab.

36" x 60" Type 5 Cab, Auto Slim (29.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

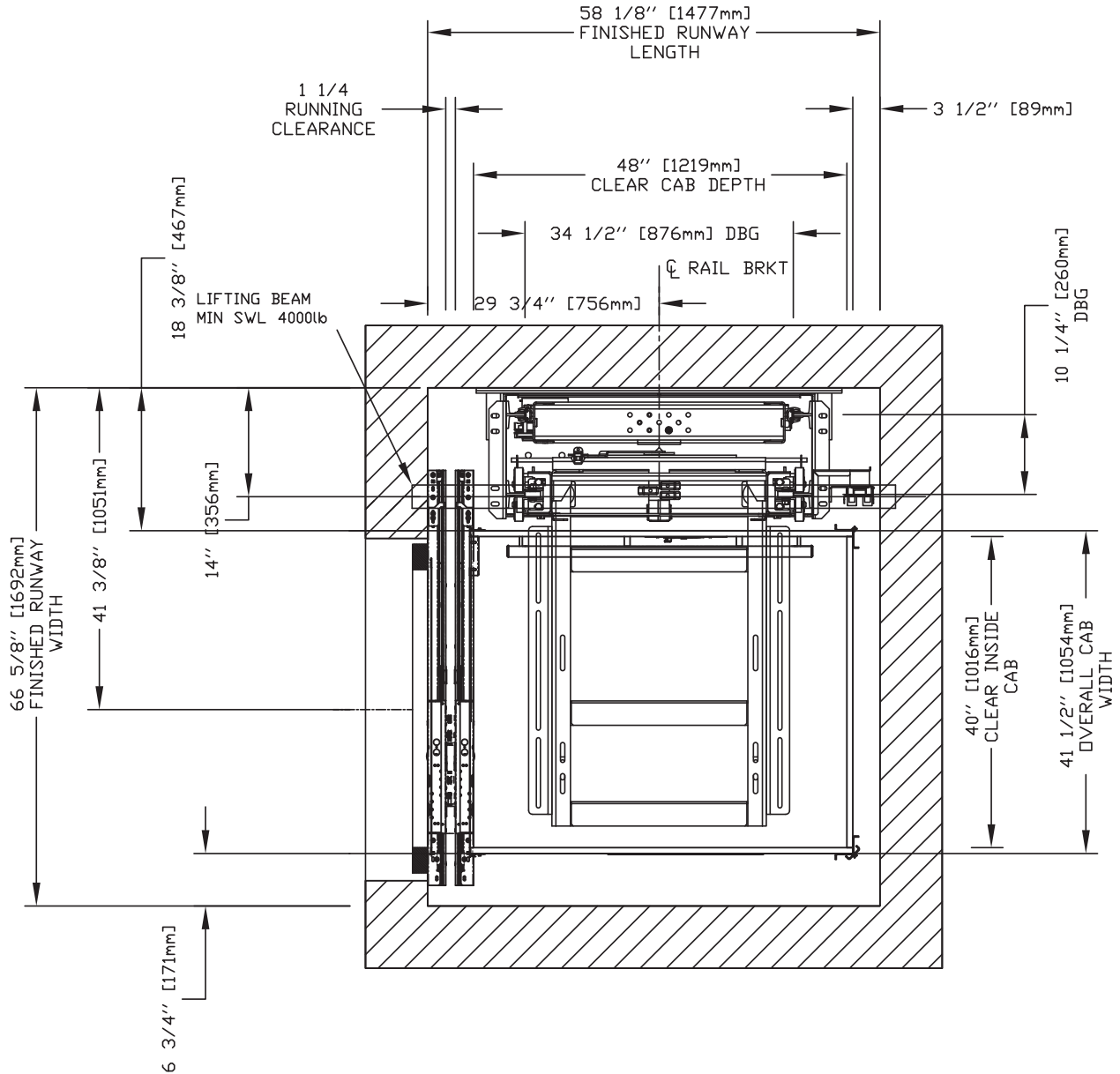


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 48" Type 1L Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

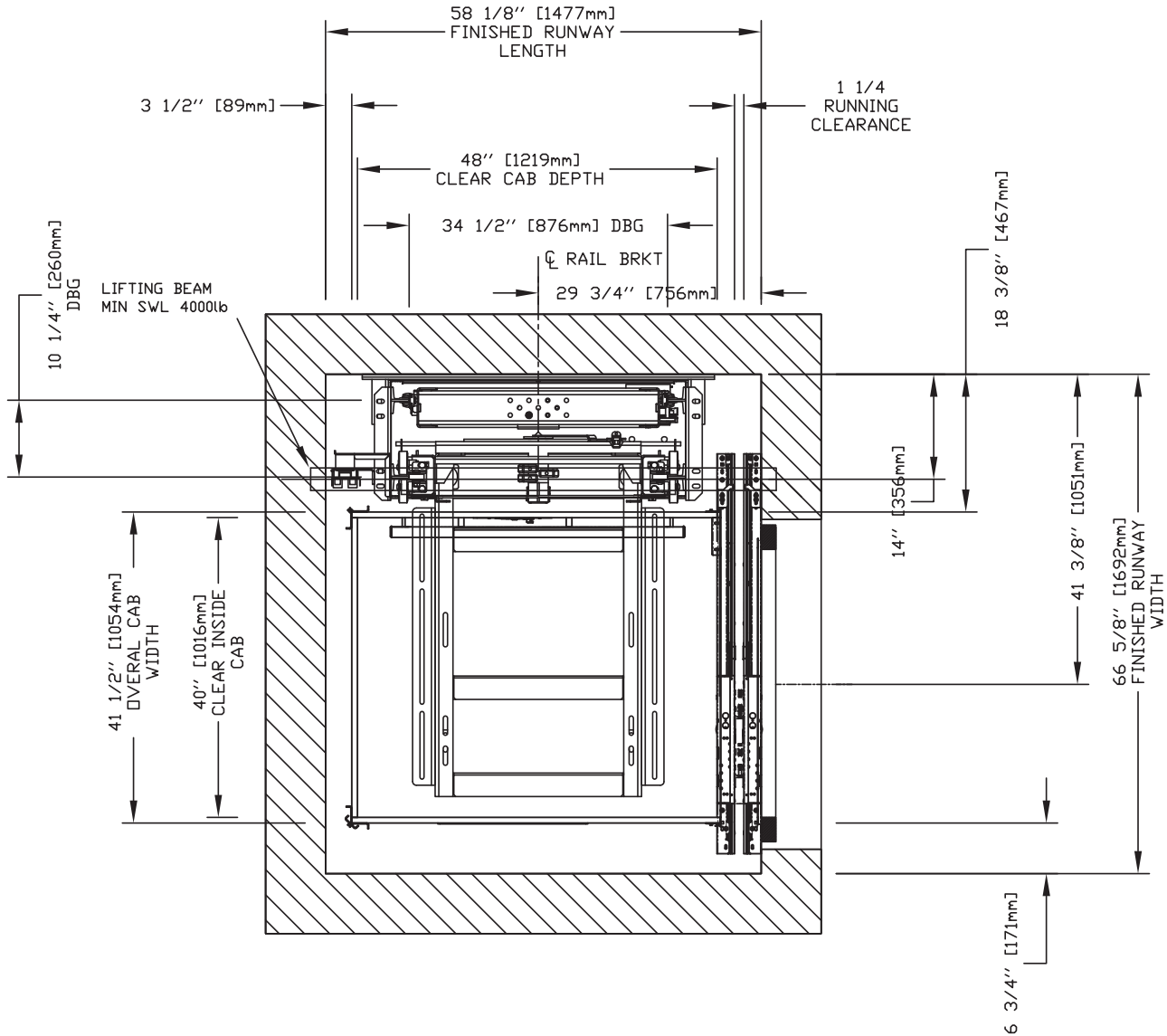


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 48" Type 1R Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

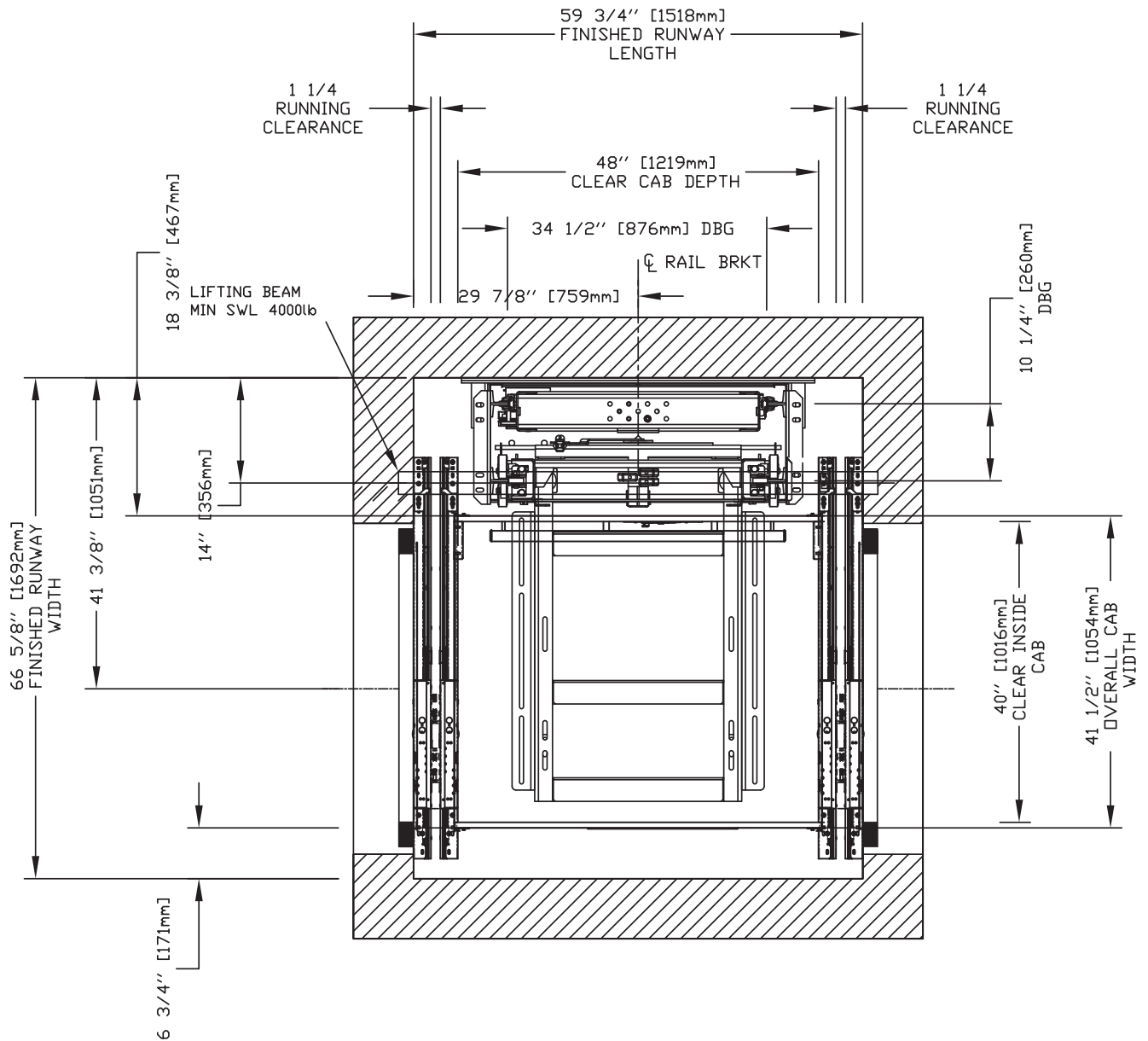


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 48" Type 2 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

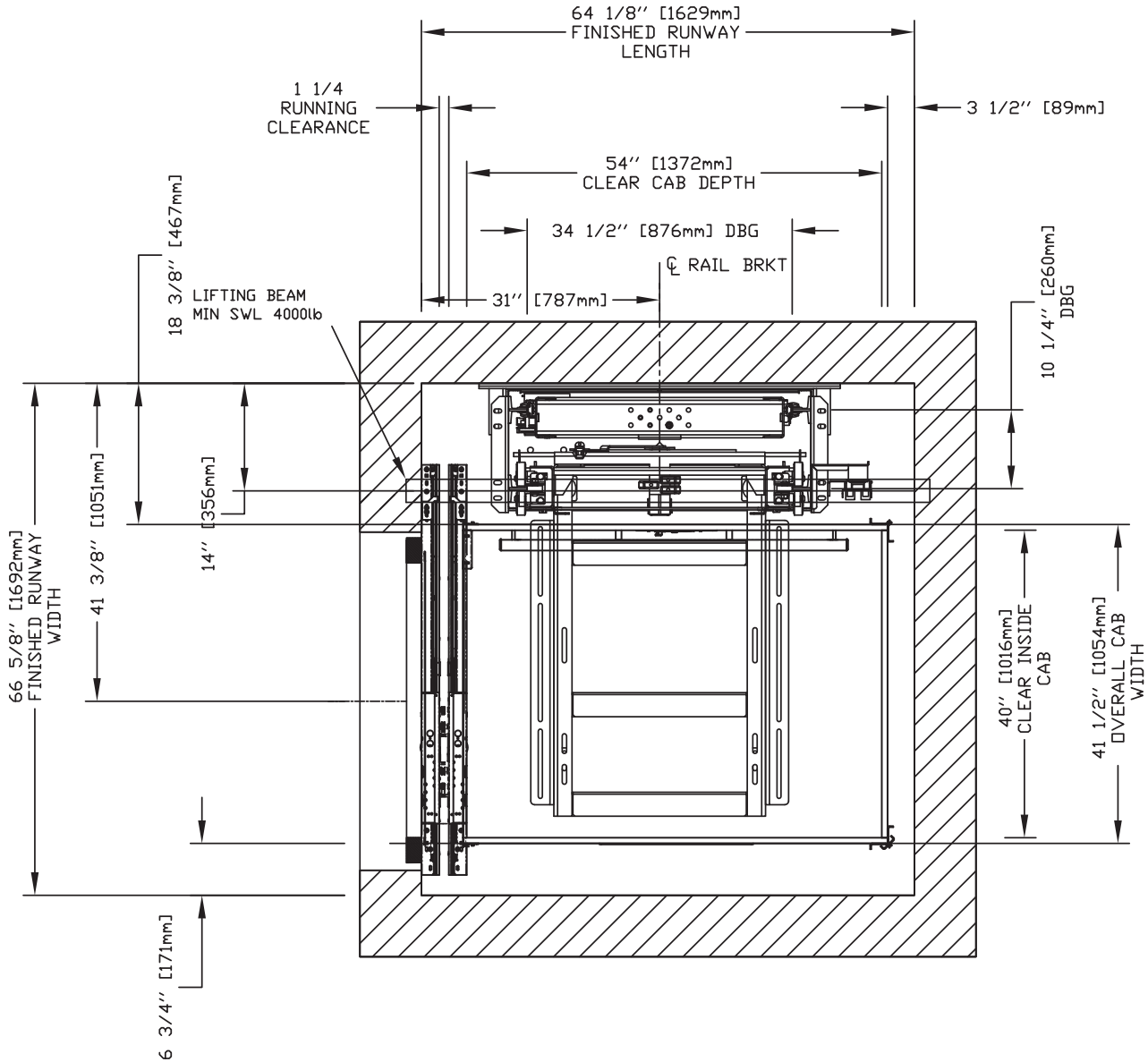


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1L Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

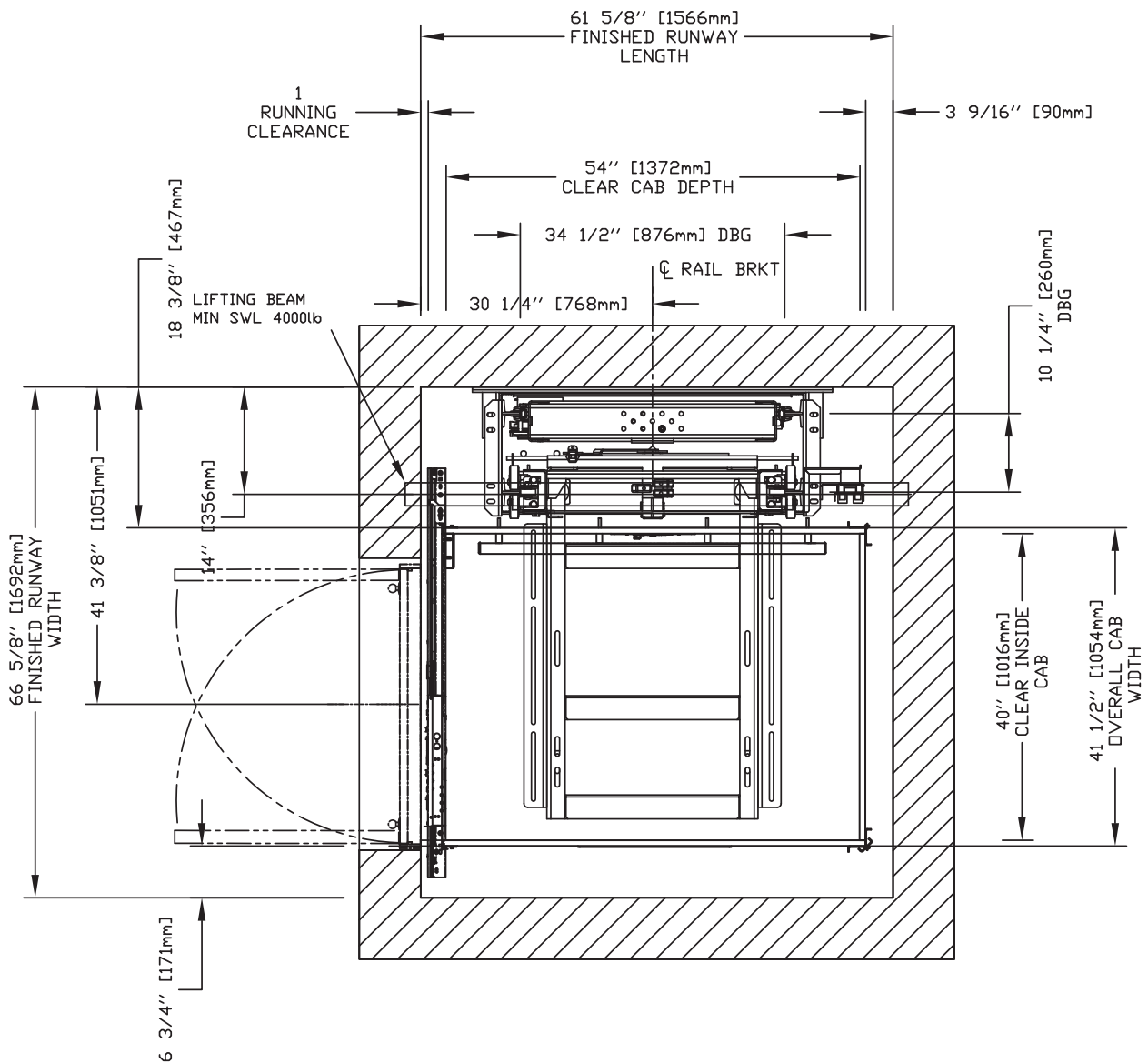


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1L Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

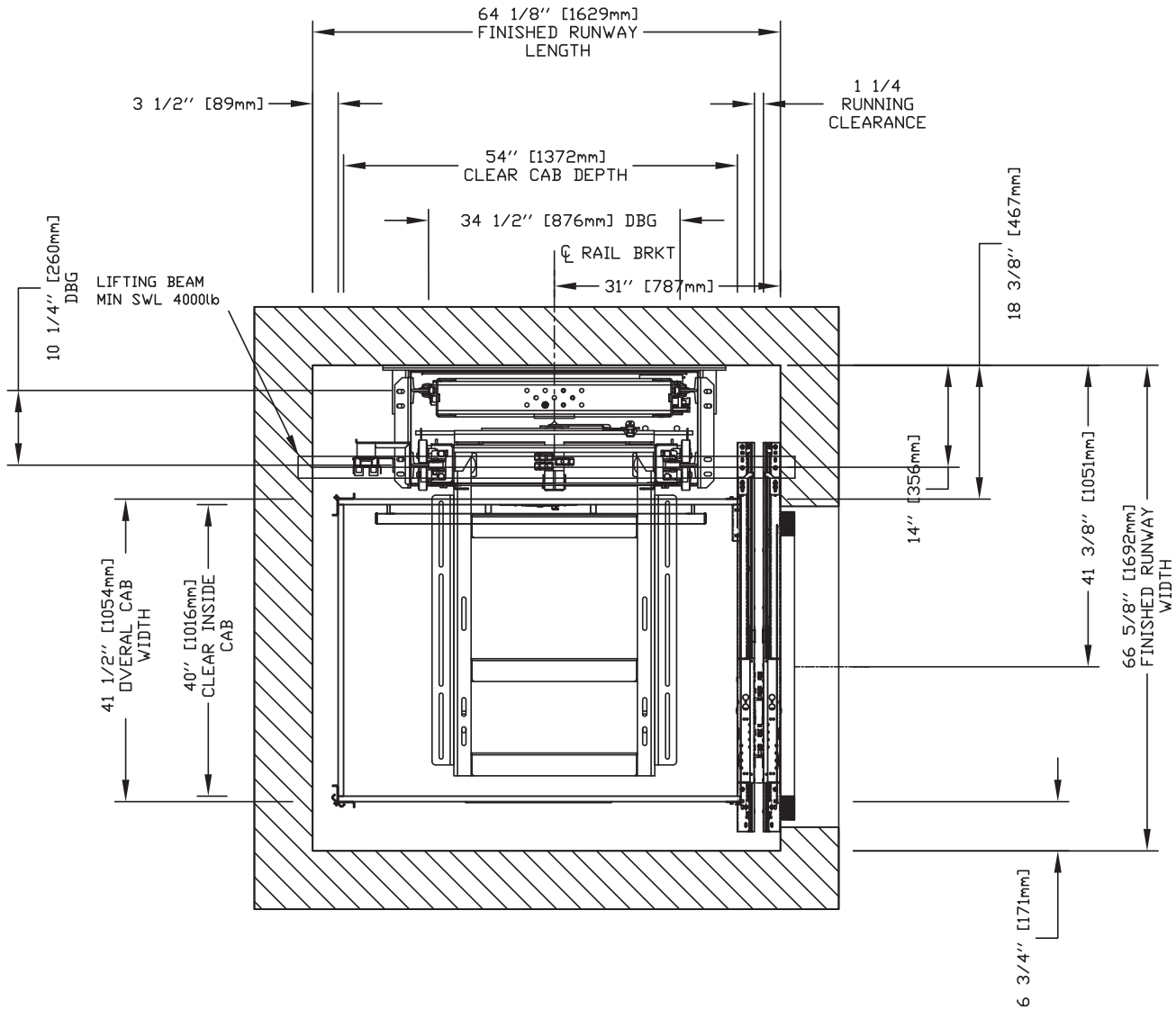


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1R Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

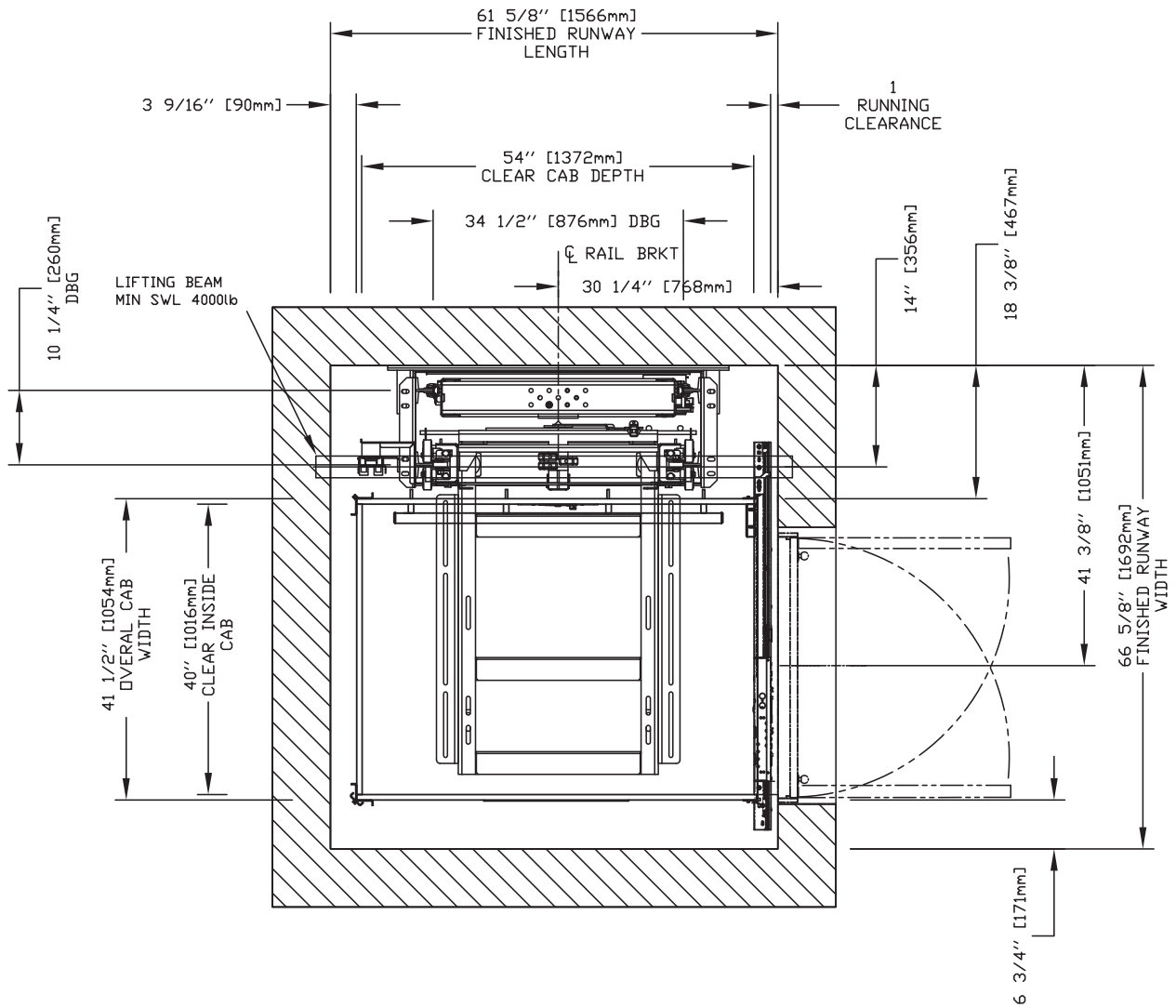


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 1R Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

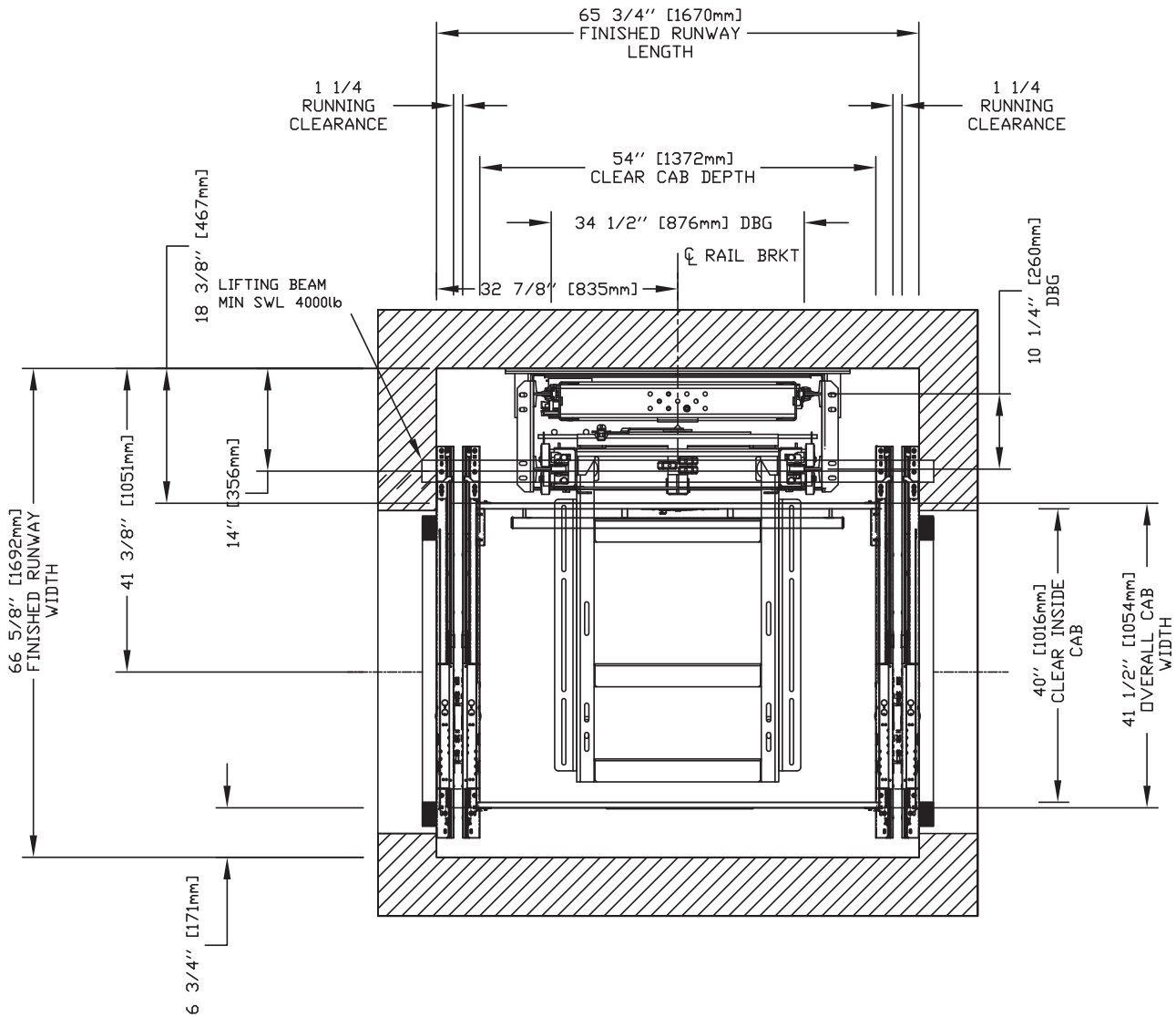


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 2 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

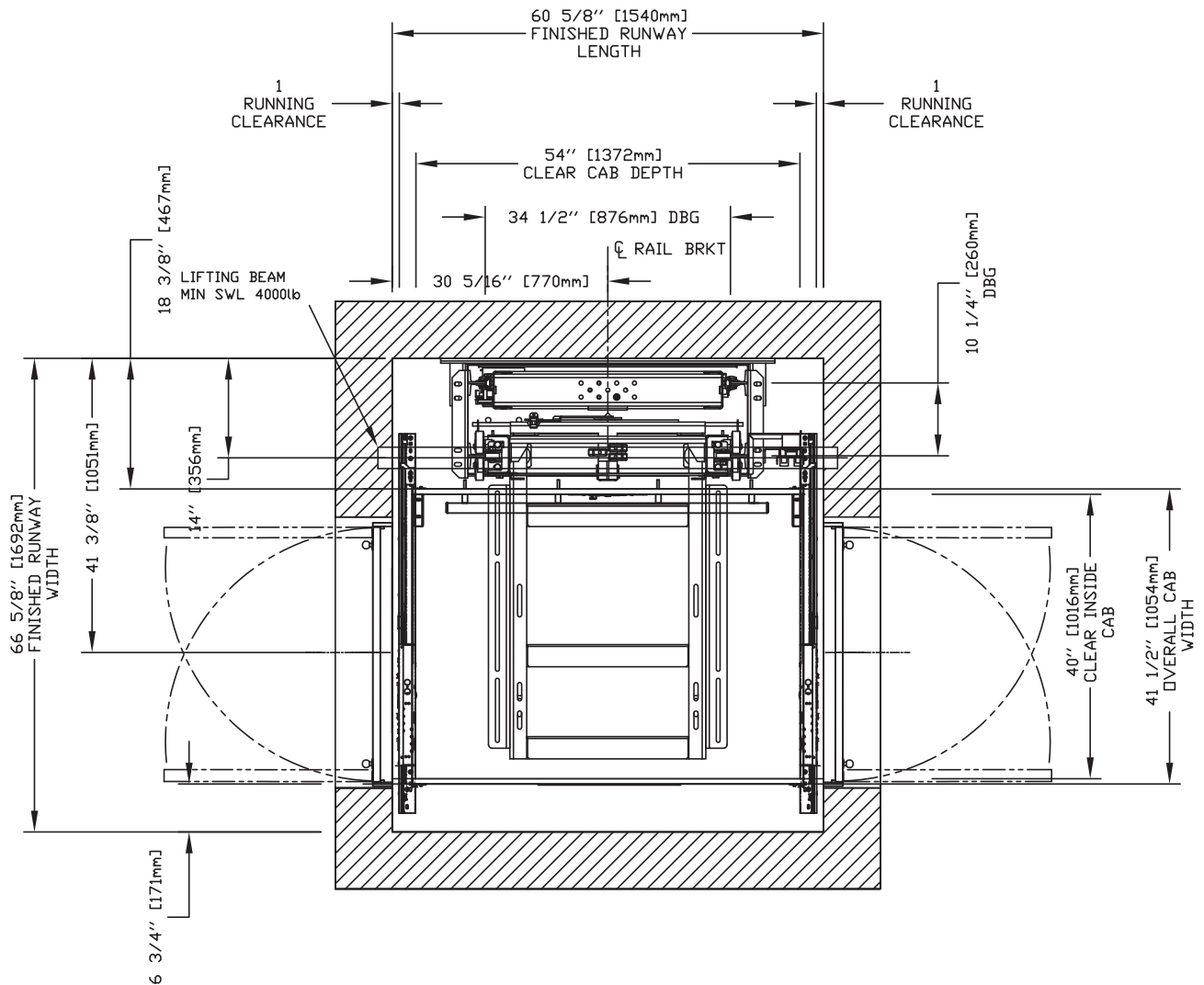


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 2 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

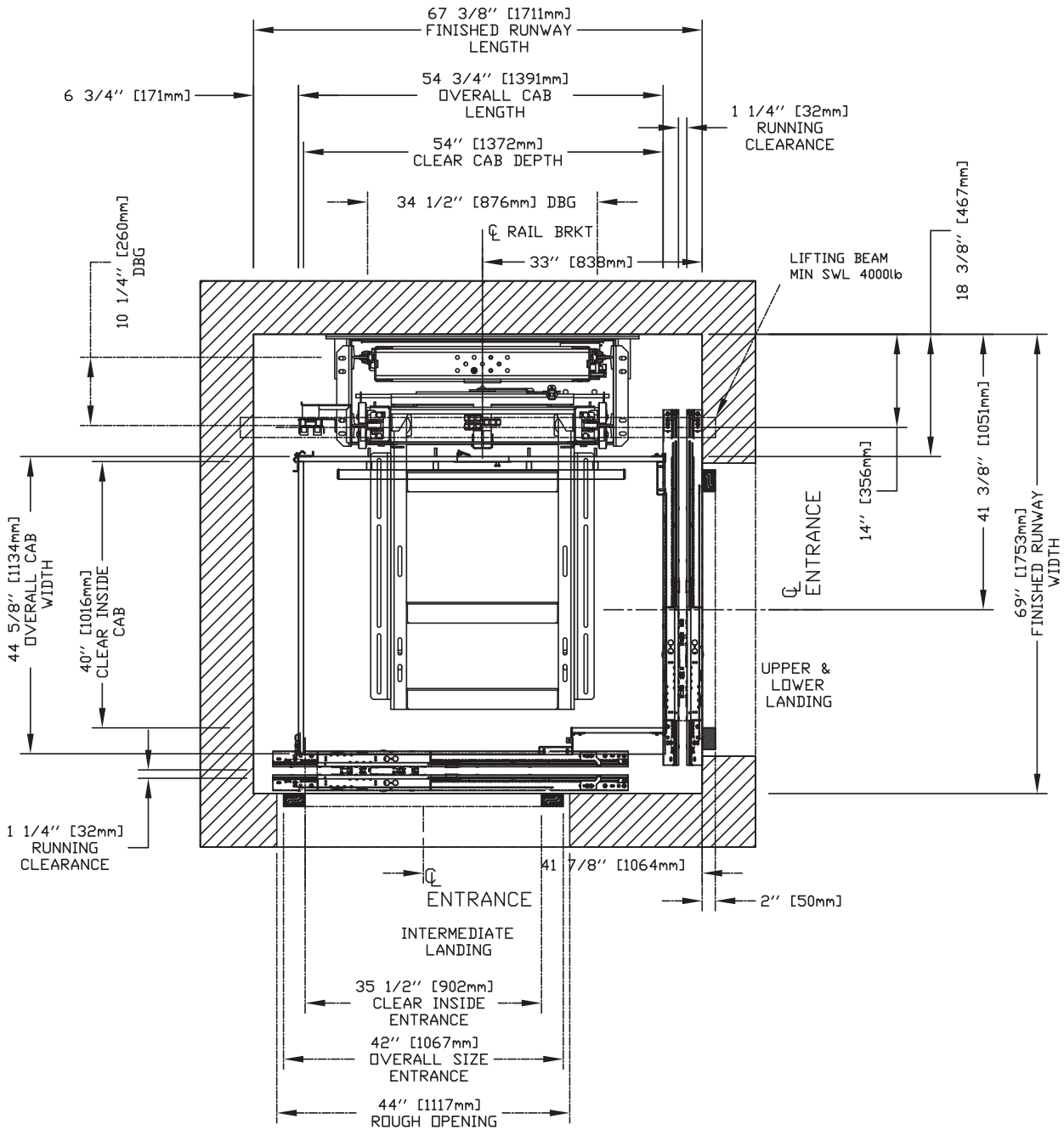


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 3 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

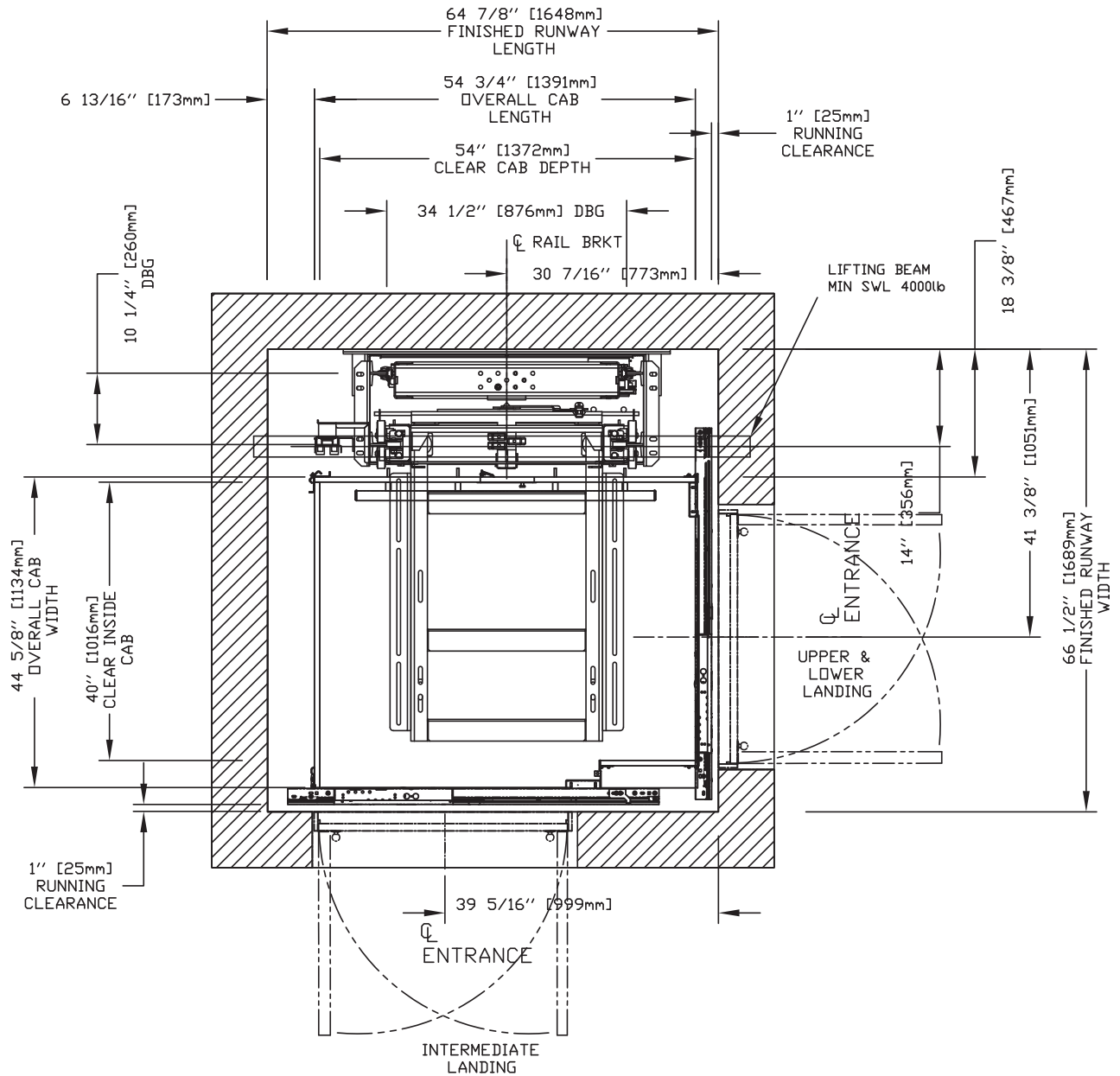


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 3 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

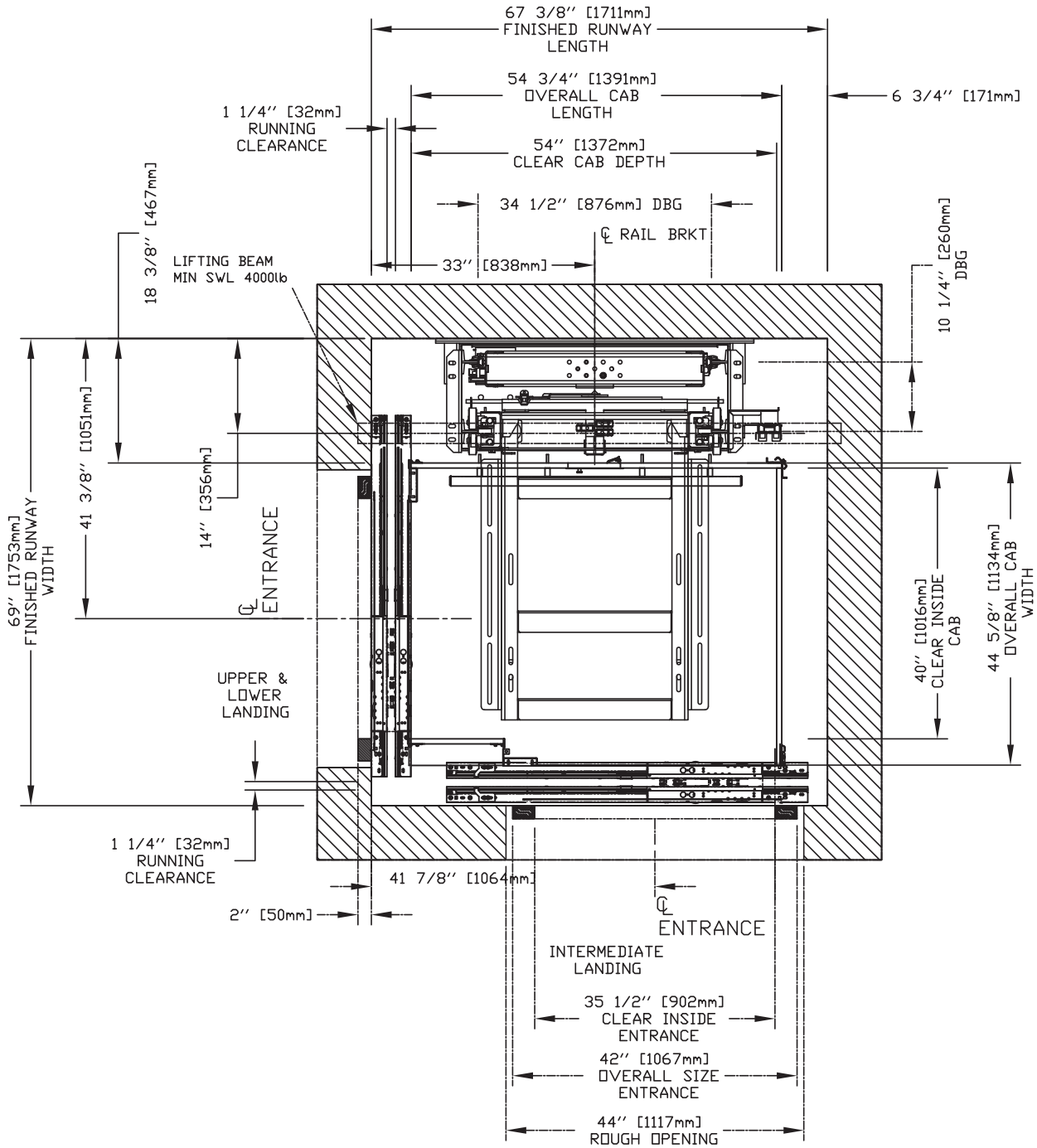


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 4 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

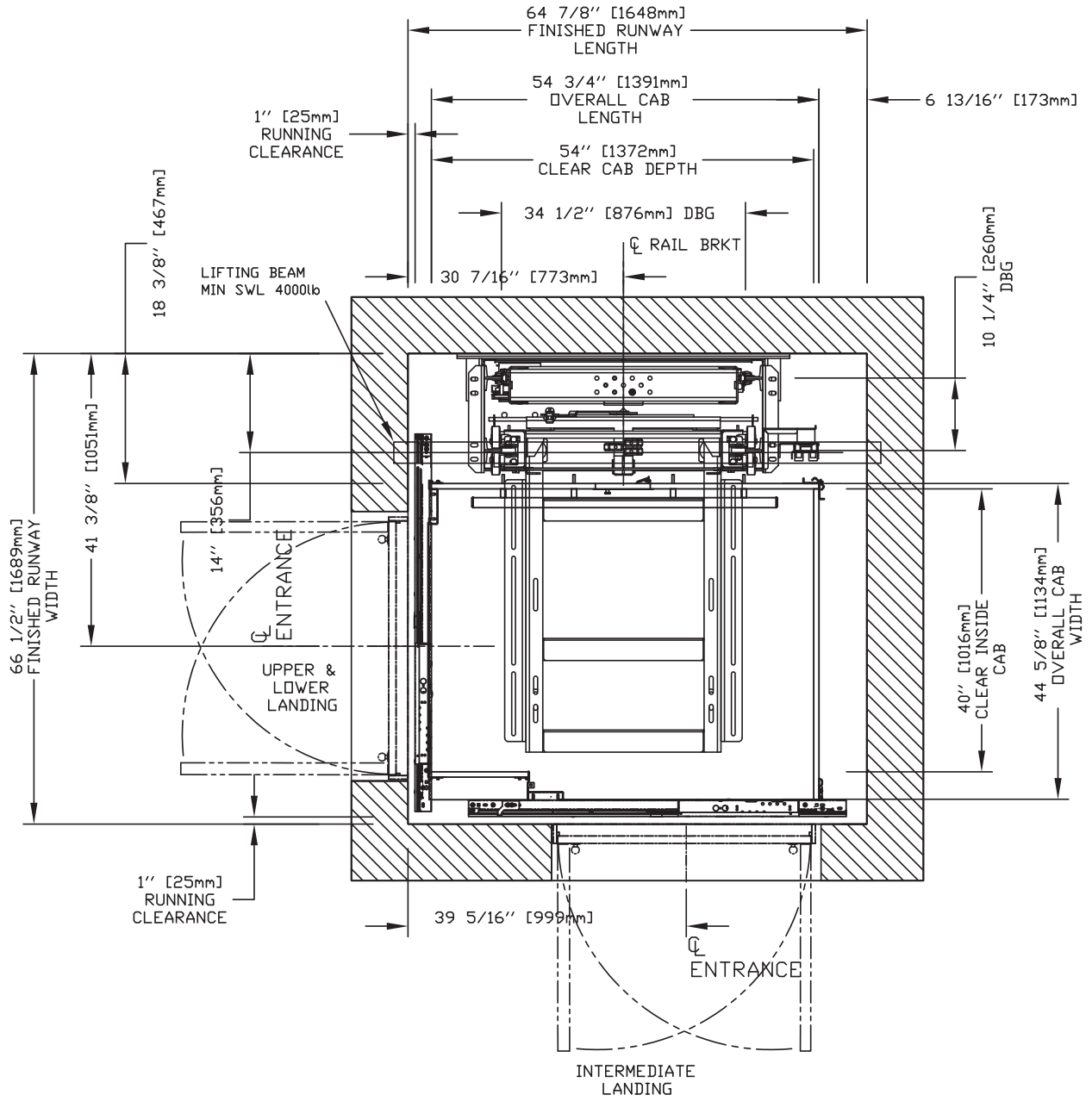


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 4 Cab, Auto Slim (35.5") Doors + Swing

IMPORTANT

Finished hoistway dimensions must include the drywall.
Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

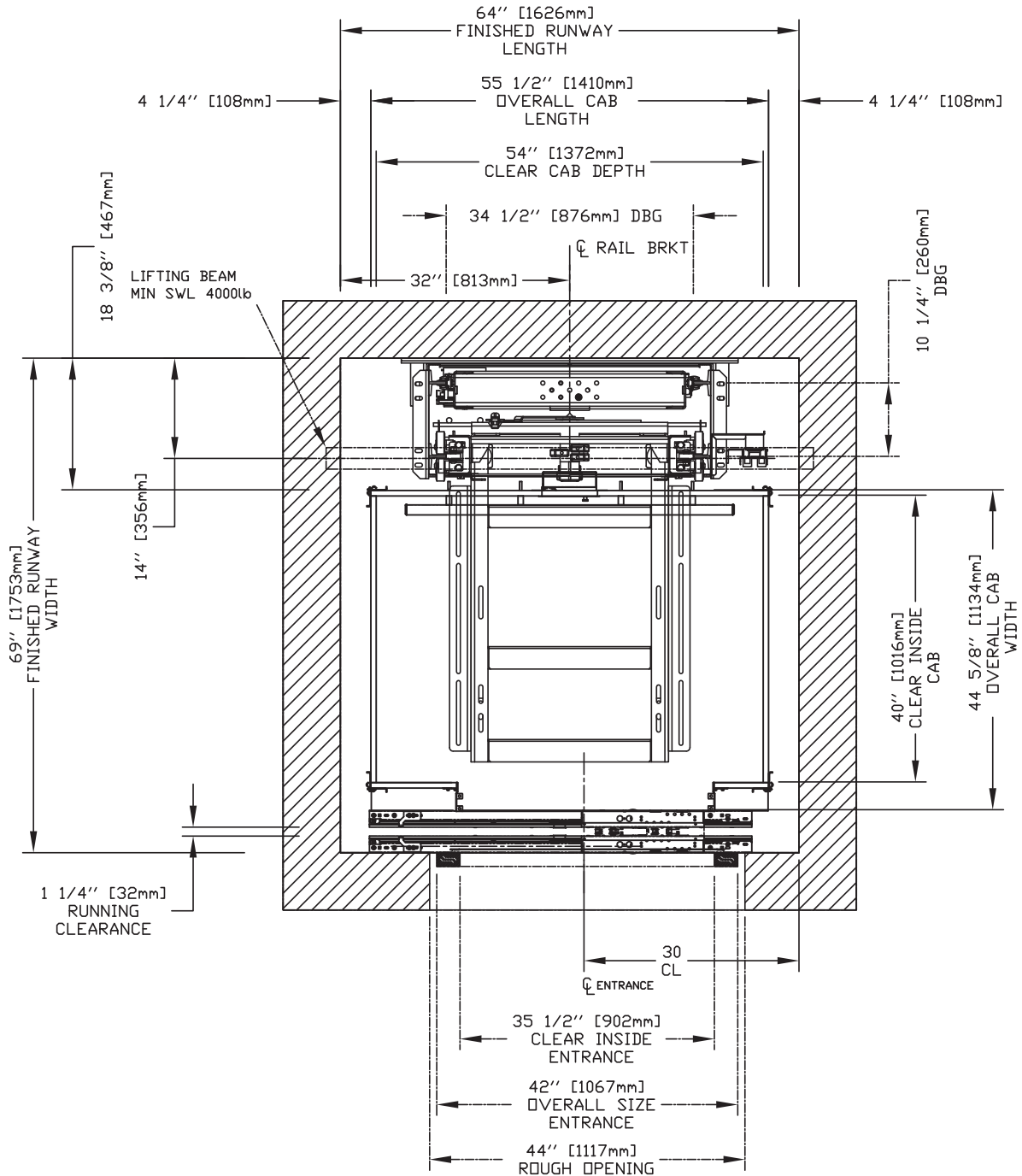


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 5 Cab, Auto Slim (35.5") Doors

IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.

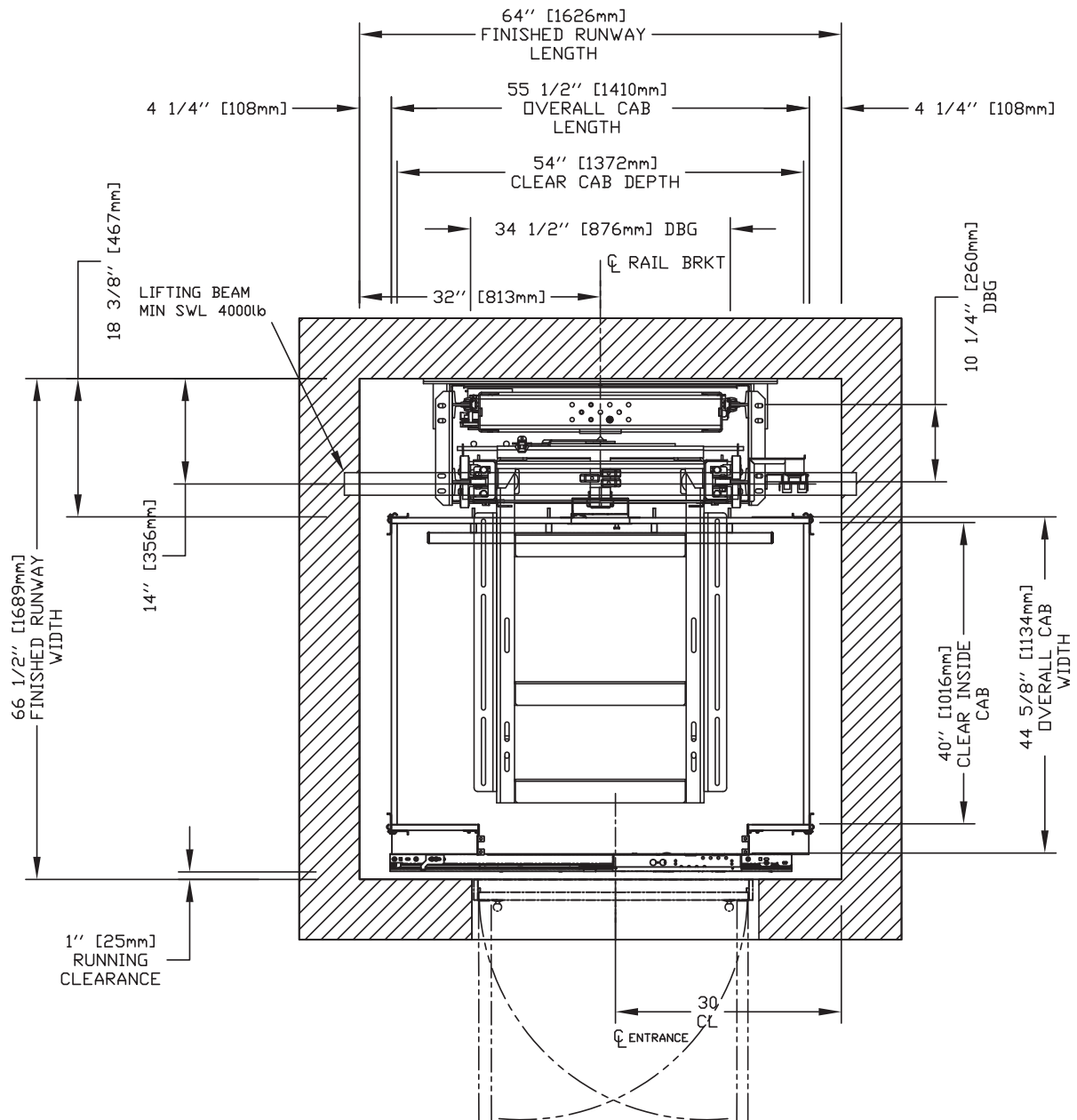


NOTE: The cab dimensions provided are based on a PLAM cab.

40" x 54" Type 5 Cab, Auto Slim (35.5") Doors + Swing

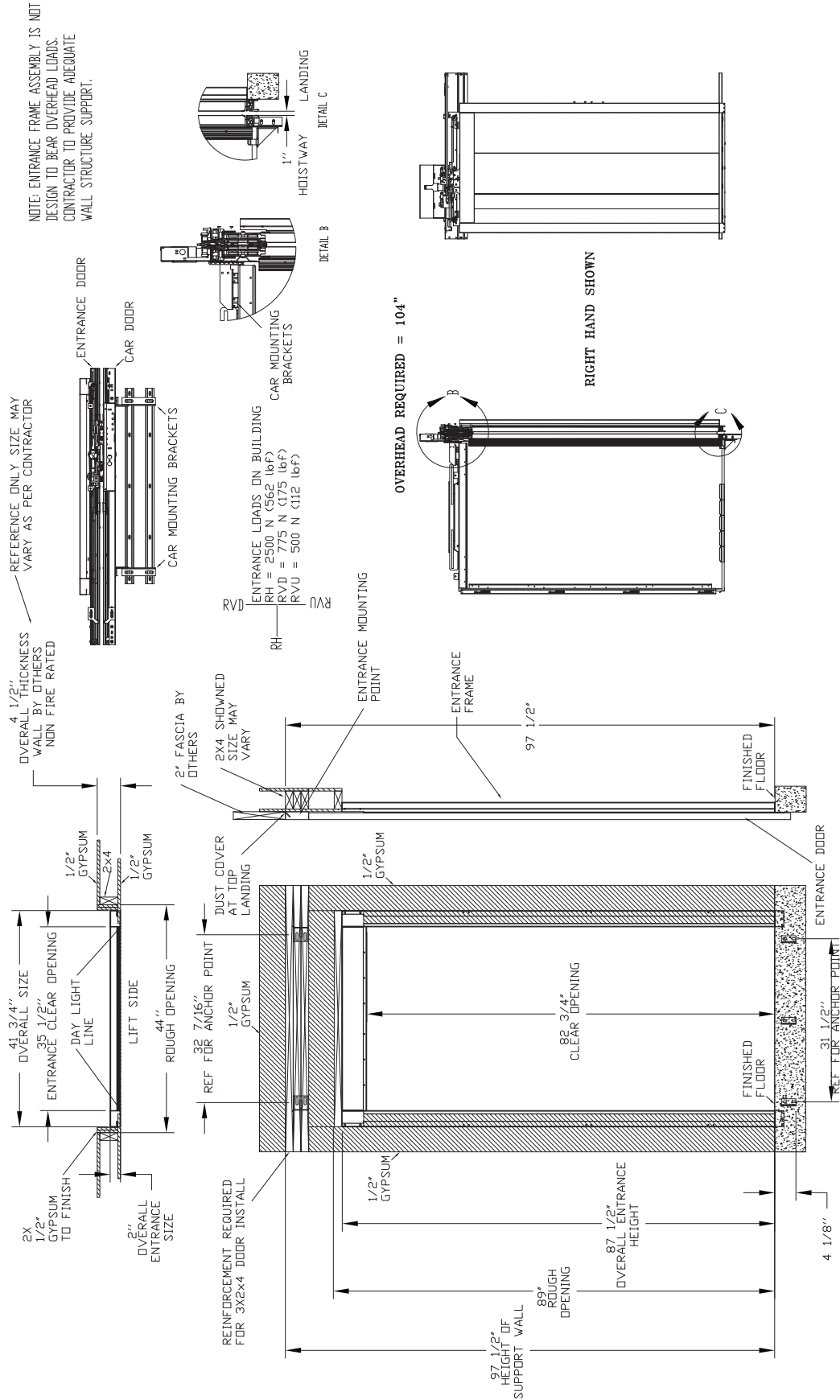
IMPORTANT

Finished hoistway dimensions must include the drywall. Determine the fire rating of the hoistway and the type and layers of sheet rock. Build only from the final shop drawings specific to your installation.



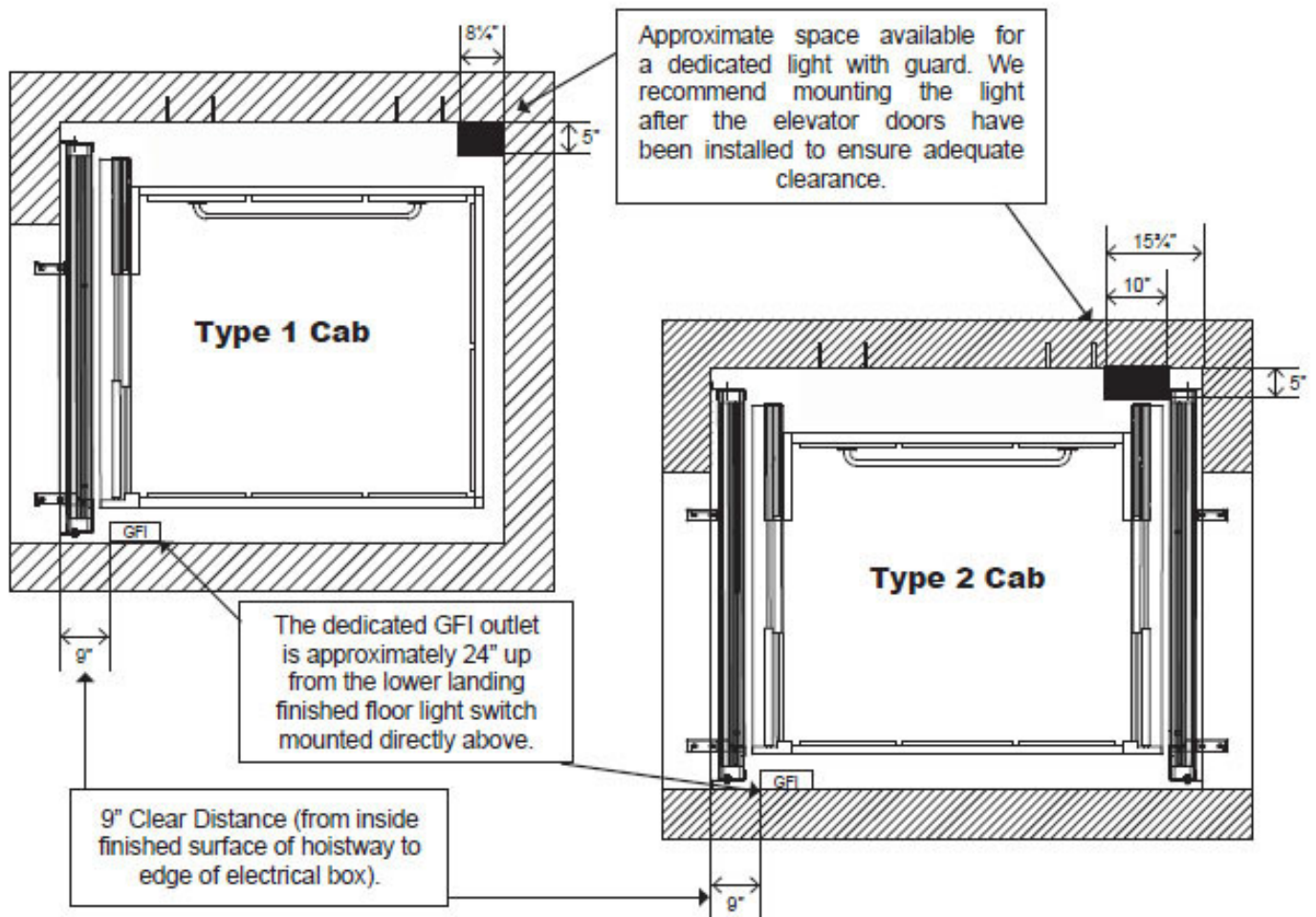
NOTE: The cab dimensions provided are based on a PLAM cab.

Auto slim doors entrance assembly, CO = 2100

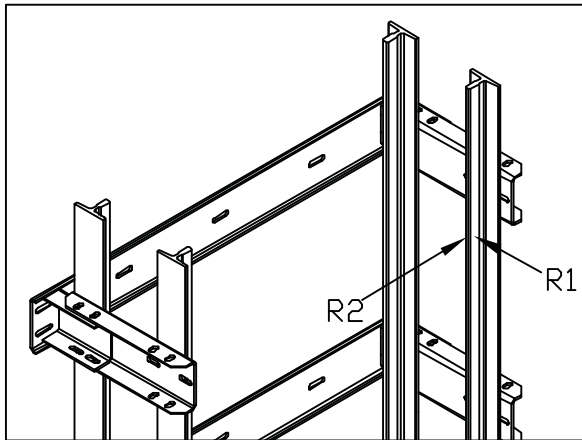


Hoistway and Pit Notes

- A load bearing wall is required to sustain rail reactions. Refer to section on rail forces.
- Suggested hoistway pit floor construction consists of an 8" (203 mm) concrete slab poured on a natural or compacted soil with a minimum allowable bearing pressure of 1.0 KSF.
- The minimum compressive strength of the concrete at 28 days must be no less than 3000 PSI. #5 reinforcing steel (grade 60) must be placed at the bottom of the slab in 2 traverse directions and at a spacing of 12" (305 mm).
- Hoistway pit floor to support a load of 10 kips (10,000 lbs)/44.48KN (includes impact).
- 108" (2743 mm) minimum overhead clearance required above the top landing floor
- 10" (254 mm) minimum pit. (A clearance device is provided to attain required 36" (914 mm) refuge space).
- Hoistway sizes reflect running and access clearances only. Consult your local AHJ to assure compliance with local codes.
- Hoistway is required to be free of all pipes, wiring and obstructions not related to the operation of the elevator.
- If a dedicated pit light is required by your local AHJ, please follow the guidelines below for accommodating this in your hoistway.



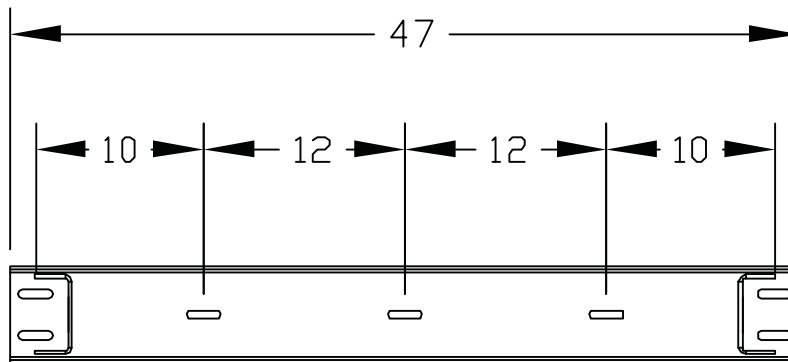
Loads on Building and Pit Loading



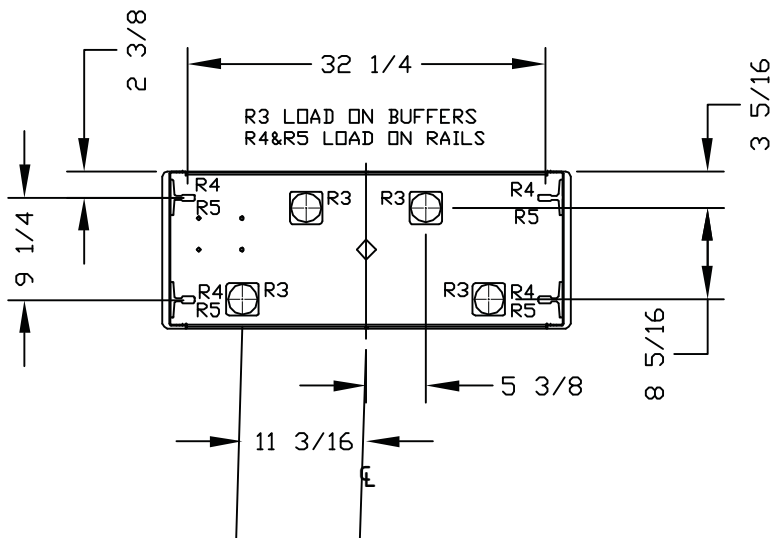
RAIL FORCES	
*R1	*R2
500 lbf	1570 lbf
RAIL WEIGHT : 8.0 lbs / ft	

FOR TOTAL PULL-OUT FORCE ON RAIL BRACKET,
 eg. $2 \times 720 = 1440$ lbf
 FOR LOCAL APPLICATION OF PIT LOAD,
 R1 MUST BE DOUBLED.

Rail reactions do not include safety factors. Applicable safety factors must be considered in hoistway design.



RAIL BRACKET DIMENSIONS



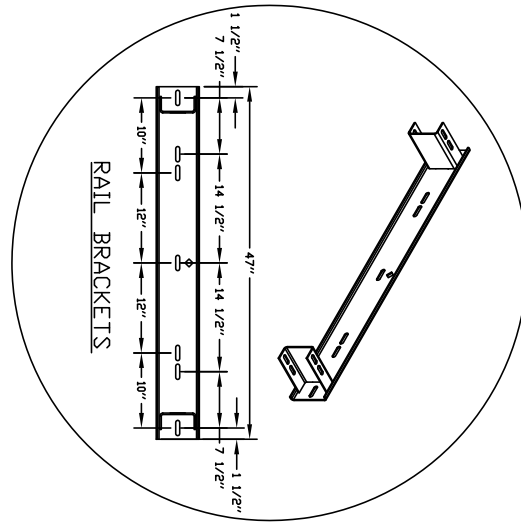
RAIL BRACKETS

TABLE 2

PIT RE-ACTION FORCE	
R3	8000 LBS
R4	3000 LBS
R5	9500 LBS

LOADS ON PIT

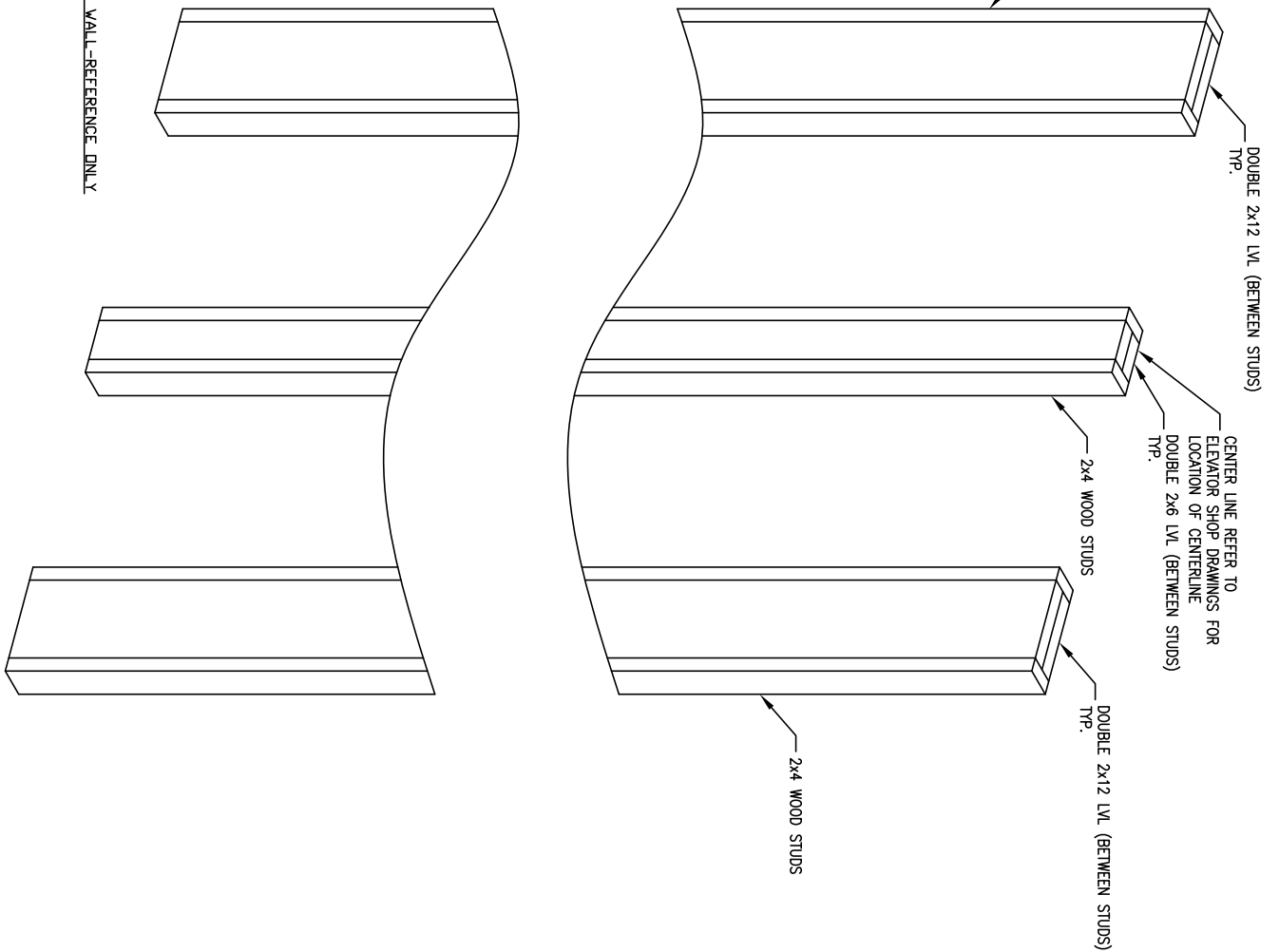
Rail Support Wall Structure



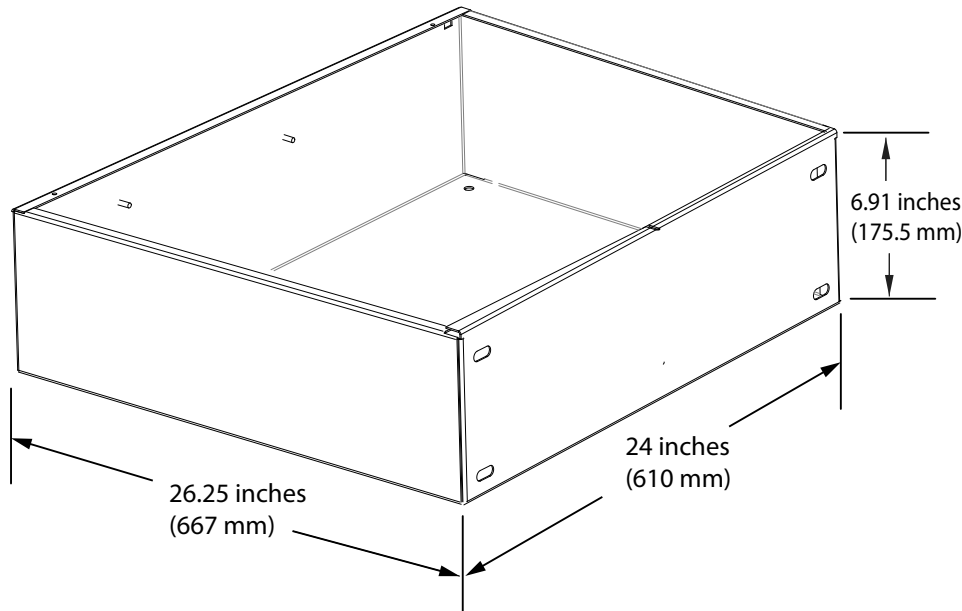
FIRE RATING OF HOISTWAY IS SUBJECT TO LOCAL BLDG CODES

NOTES:
BUILDING STRUCTURAL ENGINEER TO ASSURE THAT BUILDING AND SHAFT WILL SAFELY SUPPORT ALL LOADS IMPOSED BY THE ELEVATOR EQUIPMENT.

SAVARIA ORION MRI/ZENITH ELEVATOR RAIL SUPPORT WALL-REFERENCE ONLY



Controller Box Dimensions



Provisions By Others

Hoistway

- The hoistway must be in accordance with the “Safety Code for Elevators and Escalators” (ASME A17.1) and all state and local codes.

Plumb Hoistway

- Due to close running clearances, the owner/agent must ensure that the hoistway and pit (where provided) are level, plumb and square and are in accordance with the dimensions on the installation (shop) drawings.

Minimum Overhead Clearance

- Owner/agent must ensure the minimum overhead clearance is in compliance with codes.

Construction Site

- Owner/agent to provide all masonry, carpentry and drywall work as required and shall patch and make good (including finish painting) all areas where walls/floors may need to be cut, drilled or altered in any way to permit the proper installation of the lift.

Dimensions

- Contractor/customer to verify all dimensions and report any discrepancies to our office immediately.

Structural

Floor Support/Wall Loads

- Structure to anchor a crank shaft and safety harness, where applicable/needed, to be provided by contractor. Contractor to assure that the building and shaft will safely support all loads imposed by the lift equipment. Refer to the tables on the installation (shop) drawings for loads imposed by the equipment.

Machine Room (Where Required)

Location/Access

- Machine room located at the lowest level adjacent to the hoistway, unless shown otherwise on the layout drawings. Field adjustment by installer may be necessary to meet job site conditions or regulations. Machine room door is to be lockable and is to meet the requirements of the authority having jurisdiction.

Sleeves for Electric Lines

- From machine room to hoistway as required. (Position per installer’s instructions.)

Electrical Power Supply

- See specifications below. Lockable fused disconnect with auxiliary contact to brake the battery feed, or circuit breakers with a 3-pole breaker for battery feed required in compliance with electrical code as follows. (Located on wall on lock jamb side of machine room door.)

	DISCONNECT SIZE	TIME DELAY FUSE SIZE	VOLTS	PHASE	FLA
MOTOR & EQUIPMENT	30 Amps	30 Amps	208 Volts	Three Phase	28.9 Amps
MOTOR & EQUIPMENT	60 Amps	40 Amps	230 Volts	Single Phase	35.0 Amps
CAB LIGHTS	15 Amps	15 Amps	115 V	Single Phase	

Permanent Power

- Before installation can begin, permanent power must be supplied.

Lighting

- The illumination shall not be less than 200 LX (19 FC) at the floor level in all machine rooms and machinery spaces. Ensure at least 100 LX (10 FC) ambient lighting over the lift area.

Phone

- Need a phone land line.

Entrances

Fascia Panel Below Upper Level Entrance (Where Required)

- Fascia panel must be fastened to a solid wall and be perpendicular to the floor and walls. Hoistway fascia is not self-supporting for long, continuous runs void of entrances. Adequate support for the fascia must be provided.

Lifting Beam

- A 4000-lb minimum SWL beam must be provided in the overhead. Beam to be positioned as shown in the elevation and plan views. For overhead of 108", position the underside of the beam at 104" and the beam must be temporary.



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