



# S64

## Inclined Platform Lift

### **PLANNING GUIDE**

#### **Applicable Codes:**

ASME A17.1

ASME A18.1

CSA B355

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## Purpose of This Guide

This guide assists architects, contractors, and lift professionals to incorporate the S64 Inclined Platform Lift into a residential or public building design. The design and manufacture of the S64 Inclined Platform Lift meets the requirements of the following codes and standards:

- ASME A17.1 – Part 21 (Private), Part 20 (Public)
- ASME A18.1 – Section 6 (Private), Section 3 (Public)
- CSA B355 Safety Standards – S1-02

We recommend that you contact your local authority having jurisdiction to ensure that you adhere to all local rules and regulations pertaining to inclined platform lifts.

**IMPORTANT:** This Planning Guide provides nominal dimensions and specifications useful for the initial planning of an inclined platform lift project. **Dimensions and specifications are subject to change without notice due to continually evolving code and product applications.**

Before beginning actual construction, please consult Savaria Corporation or the authorized Savaria dealer in your area to ensure you receive your site-specific installation drawings with the dimensions and specifications for your project.

Visit our website for the most recent drawings and dimensions.

## How to Use This Guide

- 1 Determine your client's intended use of the lift.
- 2 Determine the local code requirements.
- 3 Determine the site installation parameters.
- 4 Plan for electrical requirements.

## History

March 24, 2010 – Initial release

June 1, 2010 – Moved folding seat and audio/visual alarm from optional features to standard features in Specifications table on page 8

February 22, 2011 – Updated drawing on page 5; updated drawings on page 10 and 11; updated power supply information on page 12; updated sample installation drawings on pages 13 and 14

April 4, 2011 – Added generic installation drawings

## **Introduction to the S64 Inclined Platform Lift**

The S64 Inclined Platform Lift is an accessibility device used to provide access over straight-run stairs. The S64 will transport a passenger either sitting in a wheelchair or on the folding seat. The unit travels along the rail at a comfortable speed of 16 feet per minute (5 metres per minute) up and down the stairway.

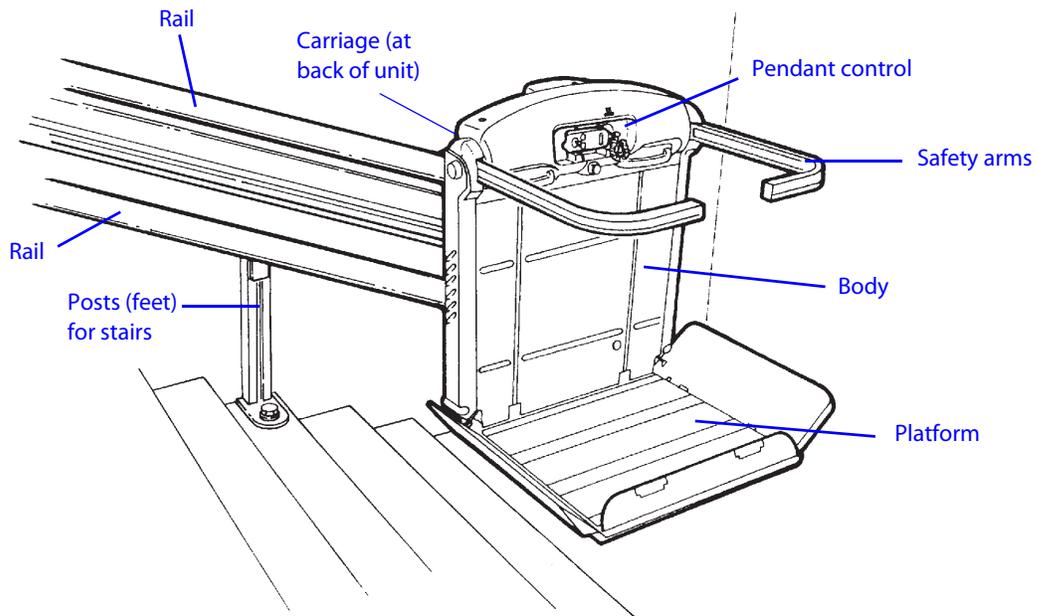
The S64 is easy to operate using the on-board pendant control buttons. When the lift is not in use, it can be parked and folded up allowing access to the stairs.

The S64 is suitable for either indoor or outdoor use, and can be factory-built for left- or right-side rail installations, and front or side platform access. Typical applications include schools, churches, hospitals, commercial buildings, restaurants, etc.

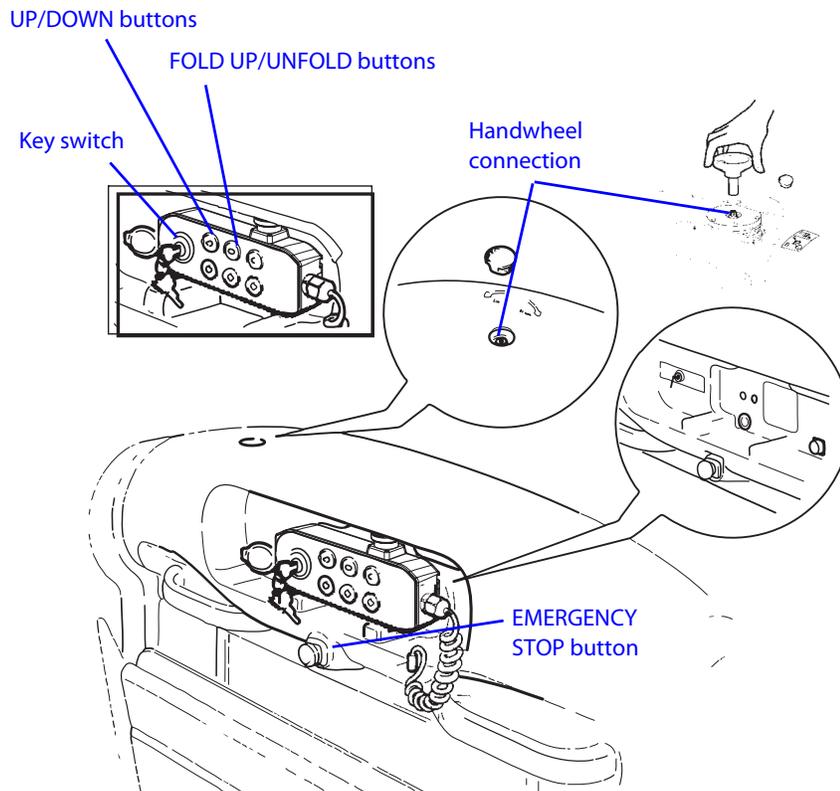
Major building renovations are usually not required as the S64 is installed on a modular rail system that is ordered to fit your project needs. The rails will be securely fastened to a supporting wall, the stairs, or both.

## Components of the Lift

**Figure 1**



**Figure 2**



## Safety Features

### Sensors

During travel, the platform and the body of the lift are protected by sensors which stop the lift if it touches an obstacle (Figure 3). Motion stops upon contact with any obstacle. You can then reverse direction of the unit to remove the obstacle from the travel route.

### Safety Arms and Platform Ramps

While in motion, the platform is protected by two safety arms (Figure 3). The platform is also protected by two platform side ramps which have the dual function of facilitating access to the lift at the floors (open position) and of retaining the wheelchair while the lift is in motion (safety position).

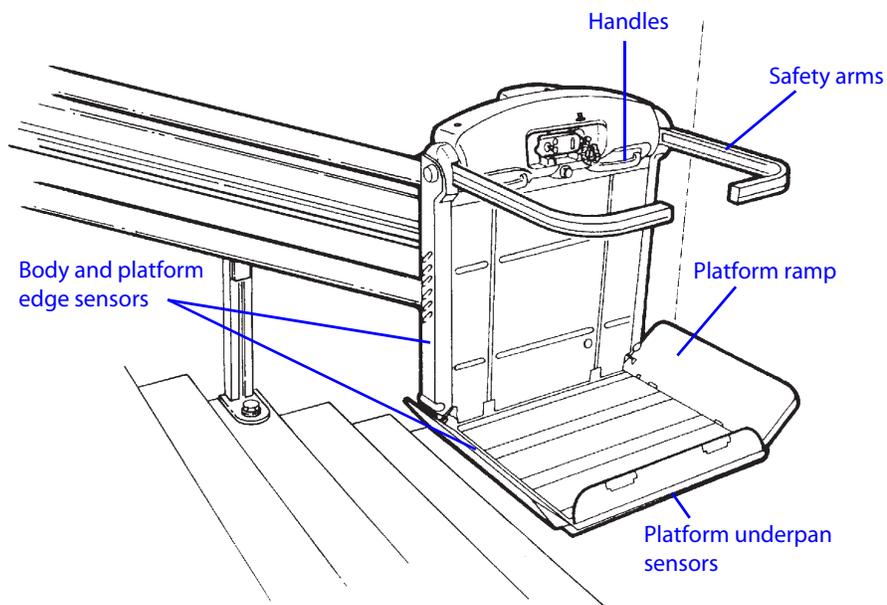
Before the lift leaves the floor, the safety arms and platform ramps automatically move into the safety position (arms down and side ramps up).

If the safety arms or platform ramps encounter an obstacle as they move into position, a microswitch is tripped, preventing operation of the lift until the obstacle is removed.

### Handles

The handles (Figure 3) are located on the lift body and can be used as rests while the lift is in motion.

**Figure 3**



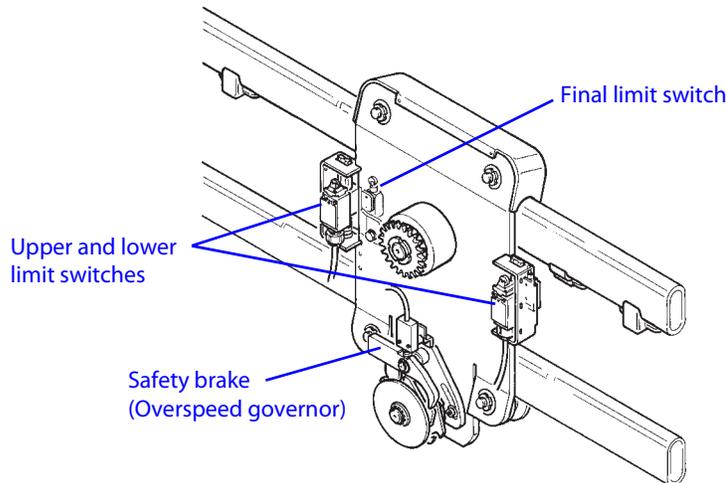
## Safety Brake

The lift is equipped with a mechanical safety brake (Figure 4). It engages if a drive component fails, or if the normal downward travel speed is exceeded by a preset amount. Application of the brake slows the lift to a stop.

## Limit Switches

The upper and lower limit switches (Figure 4) allow the lift to stop automatically in the correct landing position at the upper or lower end of the staircase. If the upper or lower limit switch fails, the final safety limit switch (Figure 4) stops the unit.

**Figure 4**



## Specifications

### S64 Specifications

Specification	Data
Rated load	507 lb (230 kg)
Gradient	Constant, 0° to 45°
Capacity	One person in wheelchair (or sitting on the seat; seat capacity is 253 lb. (115 kg))
Platform size	49.25" x 31.5" (1250 mm x 800 mm)
Travel speed	16.4 feet/min (5 metres/min)
Travel direction	Forward/backward
Temperature	14 °F to 140 °F (-10 °C to +60 °C)
Humidity	Maximum 70% Not for use in bathrooms or swimming pool areas
Noise	Less than 70 db
Motor	1.00 HP (0.75 kW), 120 VAC
Power supply	115 volts AC dedicated 15 amp circuit required
Up/down/stop button	Timed (starting delay of 3 seconds)
Emergency STOP button	Immediate stop
Key switch	Enables use of pendant control buttons
Circuit breaker reset button	To be provided by customer
Standard features	<ul style="list-style-type: none"> <li>Pendant control buttons (on platform)</li> <li>Constant-pressure type buttons</li> <li>Manual lowering capability (using handwheel)</li> <li>Safety arms</li> <li>Manual folding platform (fold/unfold platform by hand)</li> <li>Folding seat on platform</li> <li>Limit switches</li> <li>No machine room required</li> <li>Emergency stop button</li> <li>Audio-visual alarm</li> </ul>
Safety features	<ul style="list-style-type: none"> <li>Edge sensors</li> <li>Underpan sensors</li> <li>Safety brake</li> <li>Safety arms</li> <li>Platform ramps</li> <li>Handles</li> <li>Emergency stop button</li> <li>Limit switches</li> <li>Manual lowering capability (using handwheel)</li> </ul>
Options	<ul style="list-style-type: none"> <li>Landing control buttons (on call station)</li> <li>Motorized folding platform (fold/unfold platform using pendant buttons)</li> <li>Outdoor package</li> <li>Waterproof cover</li> </ul>

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## General Information

### Stairway

Due to close running clearances, the Owner/Agent must ensure that the stairs (where provided) are level, plumb (+/-1/8" (3 mm)) and square and are in accordance with the dimensions specified on the site-specific installation drawings.

### Minimum Overhead Clearance

The Owner/Agent must ensure the minimum overhead clearance is in compliance with codes.

### Construction Site

The Owner/Agent is responsible for all masonry, carpentry and drywall work as required, and for patching and finishing (including 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

The Contractor/Customer must verify all dimensions on the site-specific installation drawings and report any discrepancies to our office immediately.

### Installation

The equipment must be installed by a qualified technician in compliance with the codes identified on the front cover of this manual.

The conformity for access to the platform is the distributor's responsibility.

## Structural Details

### Floor/Support Wall Loads

A structural engineer must ensure that the building and stairway will safely support all loads imposed by the lift equipment. Adequate structural support must be provided at the top landing, bottom landing and throughout the supporting wall along the stairs.

The pull-out force on the supporting wall will vary depending on the type of rail mounting used (wall bracket, or steps and wall posts). The supporting wall must be able to support the pull-out force as identified in the support load diagram below (see dimension A or D).

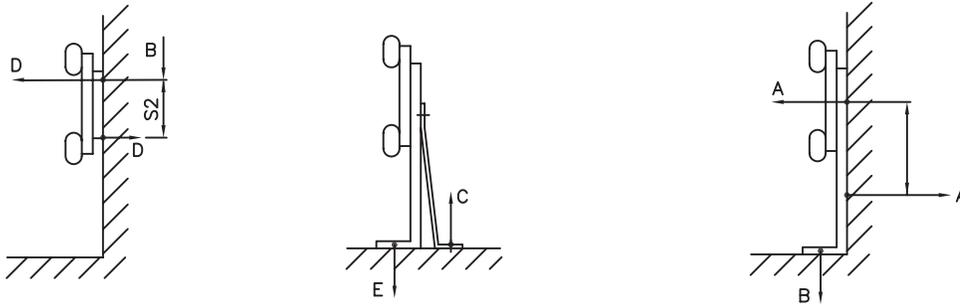
All wood studs in the supporting wall must be anchored in the ceiling and the floor to meet the pull-out force requirements. Wood studs must be placed at 16" (404 mm) centres.

The floor load will vary depending on the type of rail mounting used (wall bracket, self-supporting posts, or steps and wall posts). The floor must be able to support the loads identified in the support load diagram below (see dimension B, or C and E).

**Figure 5: Support Load Diagram**

#### SUPPORT LOAD DIAGRAM

WALL BRACKET:    SELF SUPPORT POST:    STEPS & WALL POST:

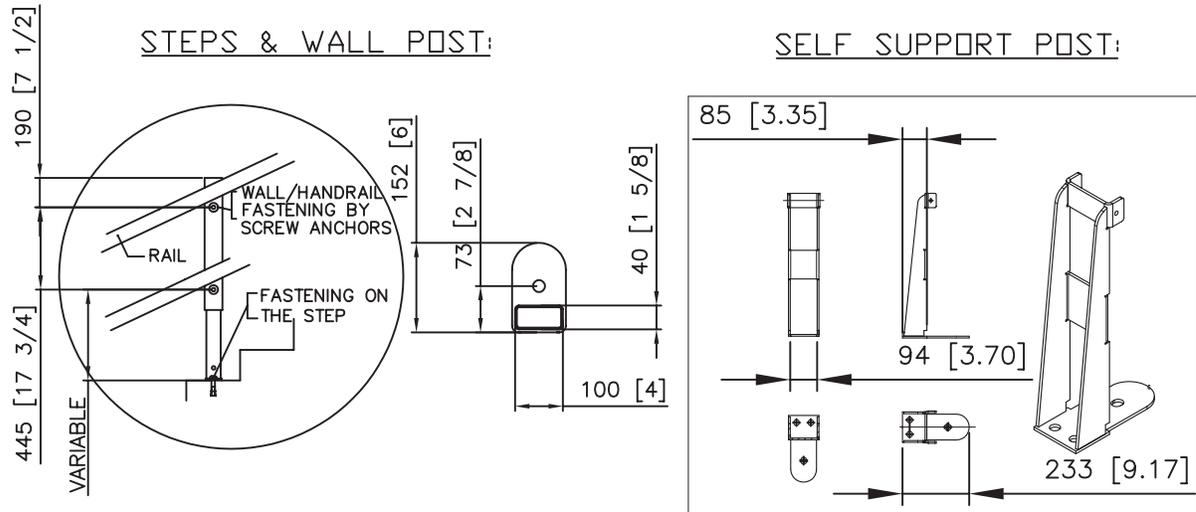


S 64				
PLATF. 1250X800				
S 1	600	m m	23.62	in
S 2	180	m m	7.09	in
A	2110	N	464.2	lbs
B	2870	N	631.4	lbs
C	5760	N	1267.2	lbs
D	7040	N	1548.8	lbs
E	7590	N	1669.8	lbs

## Rail

Where required, the rail must be securely fastened to the structural support wall. Refer to the wall diagram and lag dimensions shown below. Note that this information is provided on sheet 2 of your installation drawings.

**Figure 6: Wall Diagram and Lag Dimensions**



## Electrical Details

### General

Electrical equipment and wiring to comply with Section 38 of CSA C22.1 (Canada) or Section 620 of NEC ANSI/NFPA 70 (USA).

### Power Supply

110 VAC, 15A, 60 Hz, single phase circuit through a fused disconnect. Contractor/customer to provide two 14 AWG conductors and a ground conductor between the fused disconnect contact and the connection box. Contractor/customer to provide an electrical connection box at the top end of the rails.

### Lighting

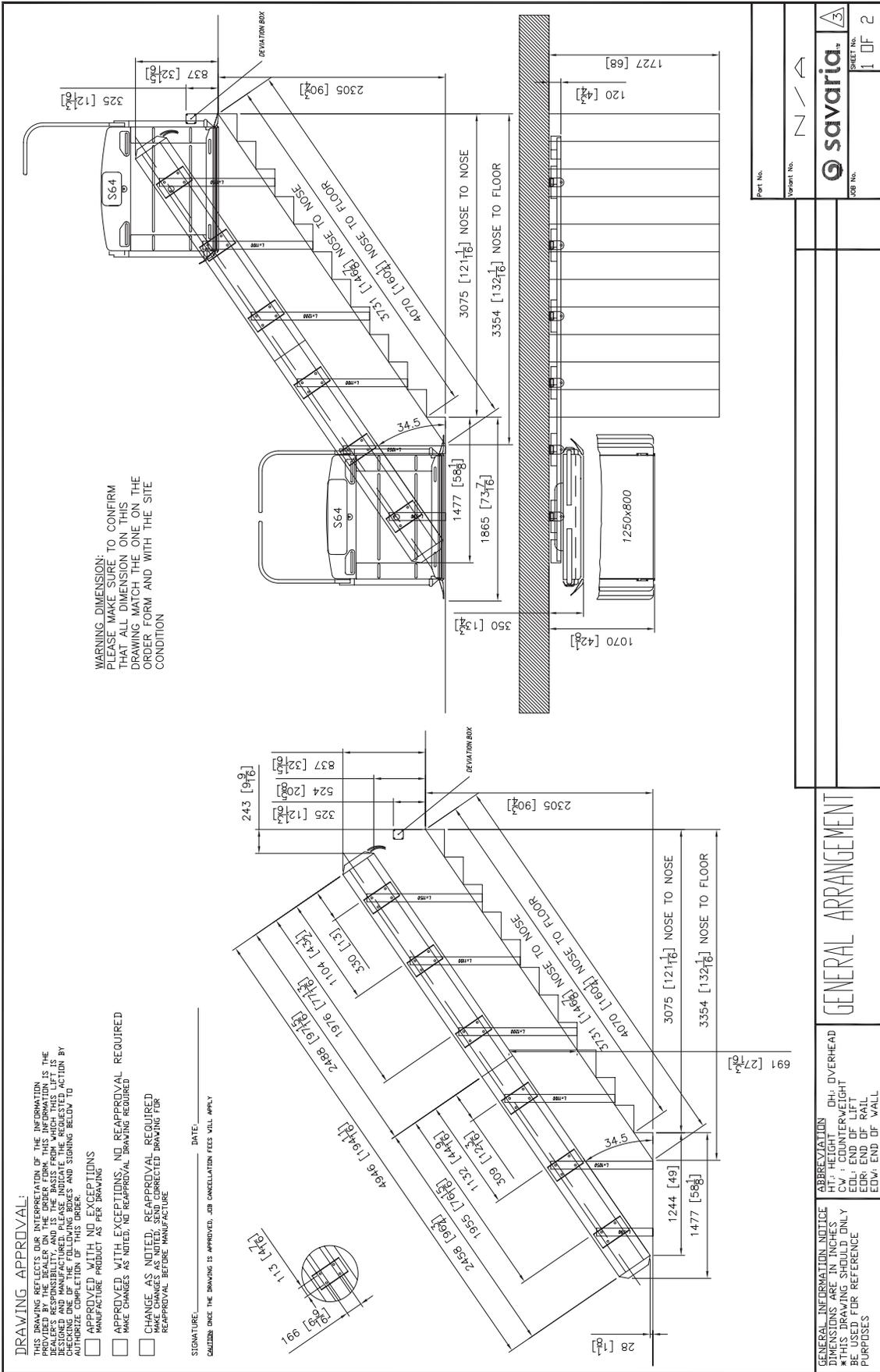
Lighting must be a minimum of 100 Lux at the platform and landings and must have a switch and electrical GFCI outlet. Emergency lighting of 2 Lux must be provided for a minimum of one hour on the platform along the travel route.

## Installation Drawing

The next page provides a generic installation drawing for the S64.

**NOTE:** The drawing provided here is a generic drawing only. Be sure to refer to the installation drawings that come with the lift for the site-specific dimensions and specifications.

Figure 7: Installation Drawings



# **S64**

## **Inclined Platform Lift**

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