



Vuelift
Residential
Elevator

Planning
Guide

 savaria.

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.

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 Vuelift drawings and dimensions.

Purpose of This Guide

This guide assists architects, contractors, and lift professionals to incorporate the Vuelift Residential Elevator into a residential design. The design and manufacture of the Vuelift Elevator meets 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/CSA B44 2019, 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.

IMPORTANT: This Planning Guide provides nominal dimensions and specifications useful for the initial planning of a vertical 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 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 Vuelift 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 Determine the cab type and hoistway size requirements.
- 5 Plan for electrical requirements.

Revision History of This Guide

December 4, 2017 - Initial release
 December 14, 2017 - Added Electrical Requirements section on page 9 (round) and page 25 (octagonal)
 January 31, 2018 - Added drawings for Type 2, Octagonal, Glass on pages 38 to 43
 March 8, 2018 - Revised Noise Level spec in Specifications tables on pages 6 to 22
 March 23, 2018 - Added dimensions for controller box and UPS on pages 21 and 45
 March 29, 2018 - Revised drawing on page 42
 May 7, 2018 - Added wheelchair plan views on pages 21 and 46
 May 14, 2018 - Added notes to wheelchair plan views on pages 21 and 46
 May 16, 2018 - Added note on pages 22 and 47 stating that a remote controller cannot be more than 50 feet away from the top of the unit in order for the cable to reach
 June 7, 2018 - New front cover
 December 7, 2018 - Revised drawing on page 46
 December 19, 2018 - Added new Chapter 3 for Round Glass Large (RGL) and Octagonal Glass Large (OGL) elevators; All drawings revised to latest version
 January 2, 2019 - Revised drawings to latest version
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 March 27, 2019 - Added info for electrical outlet on pages 10,11, 12, 29, 30, 31, 64, 65 and 66
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 May 22, 2019 - Added balcony and handrail information on pages 18, 39, 48, 57, 77 and 86
 May 29, 2019 - Added Model Specification sheets on pages 15, 37, 47, 77 and 87
 June 5, 2019 - Revised drawings on pages 53, 83, and 93
 October 16, 2019 - Revised drawings to latest version
 October 28, 2019 - Revised drawings to latest version
 January 8, 2020 - Revised drawings to latest version
 January 9, 2020 - Added note to temperature spec on pages 7, 27, and 66
 January 17, 2020 - Added Savaria Link option to specs on pages 8, 28 and 67 and to provisions by others on pages 11, 31 and 70
 March 16, 2020 - Revised specs on pages 8, 28 and 67; Removed 3 & 5 rule from pages 9, 29 and 68; Revised info on pages 12, 32 and 71; Revised controller drawing on pages 25, 64 and 95
 March 19, 2020 - Revised specs on page 67
 March 23, 2020 - Revised footprint spec on page 66
 April 8, 2020 - Revised safety factor on pages 13, 34, 35, 75 and 76; Added new drawings on pages 25, 47, 66, 88 and 99; Removed window from controller box drawings on pages 26, 67 and 100
 June 17, 2020 - Added 2019 code to table on page 2; Added new spec "floor by others (in cab)" to specs tables on pages 7, 28, and 69

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Chapter 1: Round Acrylic (RAM)



Specifications - Round Acrylic (RAM)

Specification	Specification Data
Load capacity	840 lb (381 kg)
Maximum travel	55 ft (16.76 m)
Travel speed	32 ft/min (0.16 m/s)
Noise level (for typical installation)	65 dB
Daily cycle	Normal: 40 Heavy: 80 Excessive: 150 Maximum starts in 1 hour on standard installation: 20 NOTE: Please consult your Sales Representative if there's a chance you may exceed these amounts.
Maximum levels serviced	6
Minimum overhead	106" (2692 mm) for standard cab 96" (2438 mm) for short cab
Cab	Cab walls: Full clear acrylic Cab interior height (standard): 84 in (2.13 m) Cab interior height (optional): 76.5 in (1.94 m) Cab weight: 550 lb (250 kg) Cab floor area: 13.09 sq ft (1.22 sq m)
Floor by others (in cab)	3/4" (19 mm) maximum
Footprint	54" (1.37 m) diameter
Power supply	30A, 230-V, single-phase, 50/60 Hz
Cab lighting	15A, 115V, single-phase, 50/60 Hz
Suspension	Type: Galvanized aircraft cable (2 x 3/8" diameter) Construction: IWRC 7 x 19 RHRL Nominal strength: 14,400 lb (6,545 kg) Weight of ropes: 0.243 lb/ft (3.616 g/cm) Travel cable weight: 0.228 lb/ft (3.393 g/cm)
Drive train	Type: Winding drum Motor: 1.5 HP with integrated brake Transmission: Ultra-low vibration, 3-stage, right-angle, helical-bevel drive Motor control: Preprogrammed variable frequency drive Door interlocks: Xtronics
Pit/floor load	Refer to the section "Load Calculations"
Distance between 2 landings	93" (2362 mm) minimum
Pit depth	4" - 12" (102 mm - 305 mm) No pit with optional short ramp
Temperature operating range (environment)	- 10°C to + 40°C / 14°F to 104°F NOTE: For optimal running conditions, each landing of the unit should be in a climate-controlled environment.

Specification	Specification Data
Safety features	Pit run/stop switch and car top run/stop switch Emergency stop switch Safety brakes Electrical circuit overspeed Manual lowering Emergency battery back-up for cab lighting and lowering
Options	Optional configurations: Type 1, 2, 3 Optional colors: <ul style="list-style-type: none"> • White (Texture White PX521W859) • Silver (Texture Silver PX521S343) • Custom powder-coat frame Note that Black is the standard color (Texture Black PX622N365) Other options: Up to 6 stops, balcony attachment Savaria Link remote monitoring (Vuelift Micro-6 only)

Safety First - Round Acrylic (RAM)

3/4 & 4 Rule (Code 2016 and After)

The ASME A17.1-2016/CSA B44-16 Safety Code for Elevators and Escalators **(2016 AND AFTER)** mandates the following maximum hoistway door clearances (see drawing on next page):

- Clearance between the hoistway door and the hoistway edge of the landing sill shall not exceed 0.75" (19 mm).
- Distance between the hoistway face of the landing door and the car door shall not exceed 4" (102 mm).
- Vuelift Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

Electrical Requirements - Round Acrylic (RAM)

Your electrician and phone installer must supply the following connections:

- Main Disconnect - One 230V single-phase, 30 Amp fused disconnect box with 20 Amp fuse/breaker. If voltage is not 230V minimum, a buck-boost transformer is required.
- Lighting Disconnect - One 120V, 15 Amp fused disconnect or circuit breaker for cab lighting.
- Telephone Line - One telephone line jack in close proximity to the controller.
- Electrical Outlet - One 15A GFCI outlet shall be installed near the pit or base ring.

NOTE: Savaria does not provide power cable to main disconnect.

Recommended Manufacturers for Fused Disconnect

Square D

- Main disconnect: 230V single-phase disconnect model # H221N.
240V, 30 Amp with Interlock Kit - ELK031 Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

Siemens

- Main disconnect: 230V single-phase disconnect model #HF221N.
240V, 30 Amp with Interlock Kit-HA 161234 Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

G.E.

- Main disconnect: 230V single-phase disconnect model # TH3221.
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect - 120V, 15 Amp fused disconnect or circuit breaker.

Cutler Hammer

- Main disconnect: 230V single-phase disconnect model # DH221NGK.
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel itself): Square D or Siemens only.

Provisions By Others - Round Acrylic (RAM)

General

Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

Dimensions

The contractor/customer must verify all clearance dimensions prior to delivery of the unit.

Structural Floor Loads

A structural engineer is required to ensure that the building will safely support all loads imposed by the lift equipment. Refer to the tables on the installation drawings (shop drawings) for pit/floor loads imposed by the equipment. Refer to the section, Load Calculations.

Electrical

Power Supply

See the following table. Lockable fused disconnects must be installed in compliance with electrical code and are to be provided prior to installation of the unit. Roughed in power to the lift must be provided to the head assembly location prior to installation of the unit.

Power Supply Specifications	Disconnect Size	Time Delay Fuse Size	Volts	Phase
Motor and equipment	30 Amps	30 Amps	230 Volts	Single
Cab lights	15 Amps	15 Amps	115 Volts	Single
Pit light	15 Amps	15 Amps	115 Volts	Single

Telephone

If a telephone circuit is required, the jack is to be provided and installed by others. This circuit shall be brought to a location next to the controller and be available to connect and test upon elevator installation.

Electrical Outlet

One 15-Amp GFCI outlet shall be installed near the pit or base ring.

Permanent Power

Before installation can begin, permanent power must be supplied.

Entrances Handrails

All balcony levels require handrails to be installed per local codes after installation is completed. The handrail and installation is to be provided by the contractor/customer. Savaria Concord Lifts Inc. and/or local installer are not responsible for handrail installation or materials.

Savaria Link Option (Vuelift Micro-6 Only)

If you have the Savaria Link Ethernet remote monitoring option, ensure that you have an Ethernet connection with Internet capability in the vicinity of the unit's controller.

If you have the Savaria Link Wireless remote monitoring option, ensure that you have a wireless signal with Internet capability in the vicinity of the unit's controller.

Site Preparation - Round Acrylic (RAM)

The following items **MUST** be completed prior to installation of the elevator.

Finished Floors

- Finished floors be installed at all landing levels.

230V Power (with Switched Disconnect)

- Permanent 230V, single-phase, 30-Ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted in a location within line of sight of the elevator or controller.
- 230V source must be run from the disconnect switch to a junction box in a discrete location at the top of the elevator hoistway location.
- Disconnect must be installed according to all applicable local codes.

110V Power (with Switched Disconnect) - 2 are required

- Permanent 110V, single-phase, 15-Ampere dedicated power to a lockable, fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted near the 230V disconnect switch.

Telephone Works

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your local installer or building contractor for code requirements.

Electrical Outlet

- One 15-Amp GFCI outlet shall be installed near the pit or base ring.

Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting Savaria.

Floor and Pit Cutouts Complete

- If a pit is to be used, a smooth, level surface of at least 4" must be provided. For pit depths greater than 12", contact Savaria to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed.
- Hole in floor, or modified balcony rail as directed by drawings.

Check Floor to Floor Maximum and Minimum Distances

- 106" (2692 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration.
- 96" (2438 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for modified short cab configuration.

Drywall and Painting

- All drywall and painting must be complete.

Load Calculations - Round Acrylic (RAM)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Vuelift elevators are designed such that the dead load and impact load are transferred to the lowest level through the rail base plates and rings when installed properly in a building with structural integrity including consistent floor to floor heights.

Note: Vuelift elevators are designed for applications in buildings that maintain consistent floor to floor height as the building ages.

If floor to floor height changes after installation, the elevator **MUST** be taken out of service pending inspection and correction by a trained installation technician.
- All mid floors including the bottom floor may be subjected to a maximum lateral load of 200 lb.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, these figures DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

$$\text{Lower Floor Dead Load (lbf)} = (38 \times \text{feet of hoistway}) + (60 \times \text{number of floors}) + 2193$$

$$\text{Lower Floor Impact Load (lbf)} = 3703$$

$$\text{Lower Floor Total Load (lbf)} = \text{Dead Load} + \text{Impact Load}$$

$$\text{Mid Floor Load (lbf)} = 182$$

$$\text{Shipping Weight (lb)} = (694 \times \text{number of floors}) + 1720$$

Note: Shipping weight includes the actual component weights for all parts, plus shipping crate and packaging weight.

Examples

	<u>3 stop with 36' of hoistway</u>	<u>2 stop with 19' hoistway</u>
Lower Floor Dead Load	3,741	3,035
Lower Floor Impact Load	<u>3,703</u>	<u>3,703</u>
Lower Floor Total Load	7,444	6,738
Mid Floor Loads (on each mid floor)	182	182
Shipping Weight	3,802	3,108

Drawings - Round Acrylic (RAM)

- Plan view
- Pit/bottom floor/thru-floor view
- Balcony detail
- Balcony plate and handrail information
- Thru-floor detail
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Provisions by others
- Pit cutout detail
- Machine room layout and wire routing
- Controller box dimensions

Model Specifications - Round

Round (Acrylic)

- Capacity: 381kg (840 lb)
- Cab Size: 1.22 sqm (13.09 sq. ft.)
- Clear Cab Size: 1298mm (51 in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
 - **Acrylic:** 1372mm (54 in.)
 - Pit/Thru Floor Cutout: 1422mm (56 in.)
 - **Balcony/Header Ring:** 1473mm (58 in.)
 - **Pit/Thru Floor Ring:** 1575mm (62 in.)
- Minimum Overhead Clearance: 2692mm (106 in.)

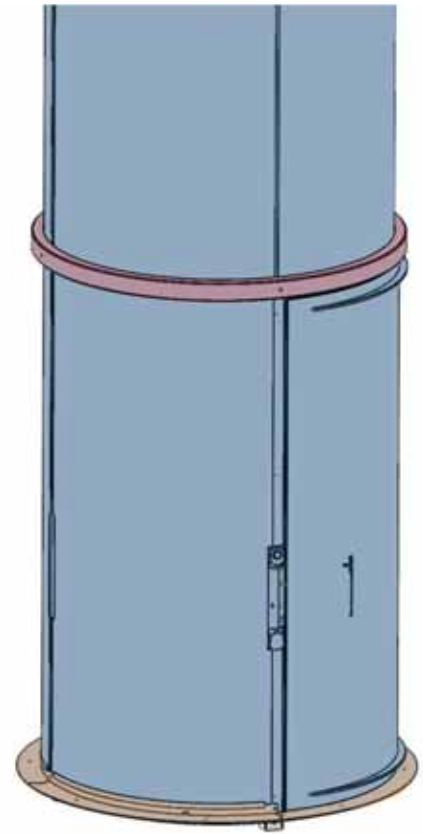


Figure 1: Plan view - round acrylic (RAM)

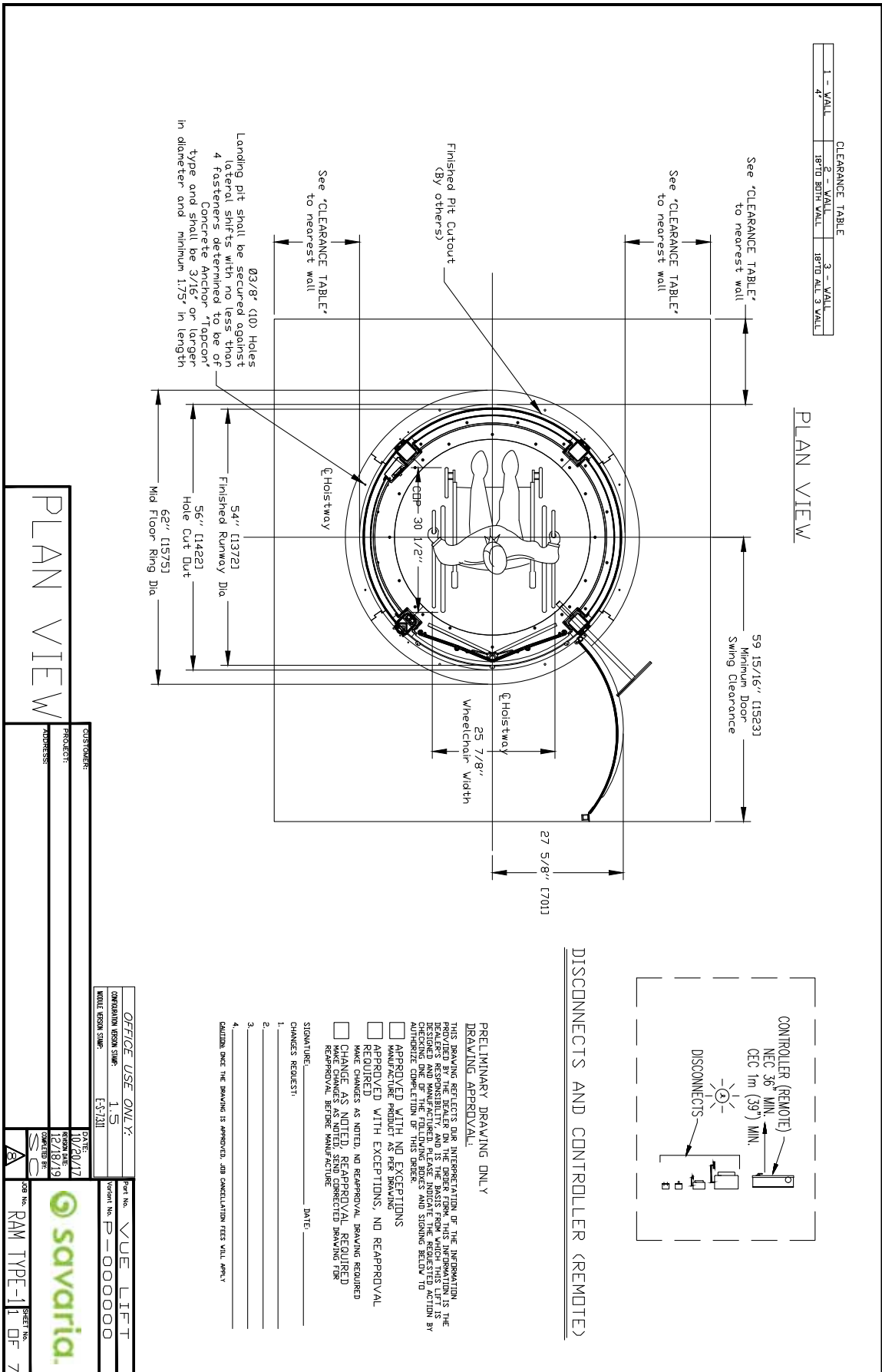


Figure 2: Pit/bottom floor/thru-floor view - round acrylic (RAM)

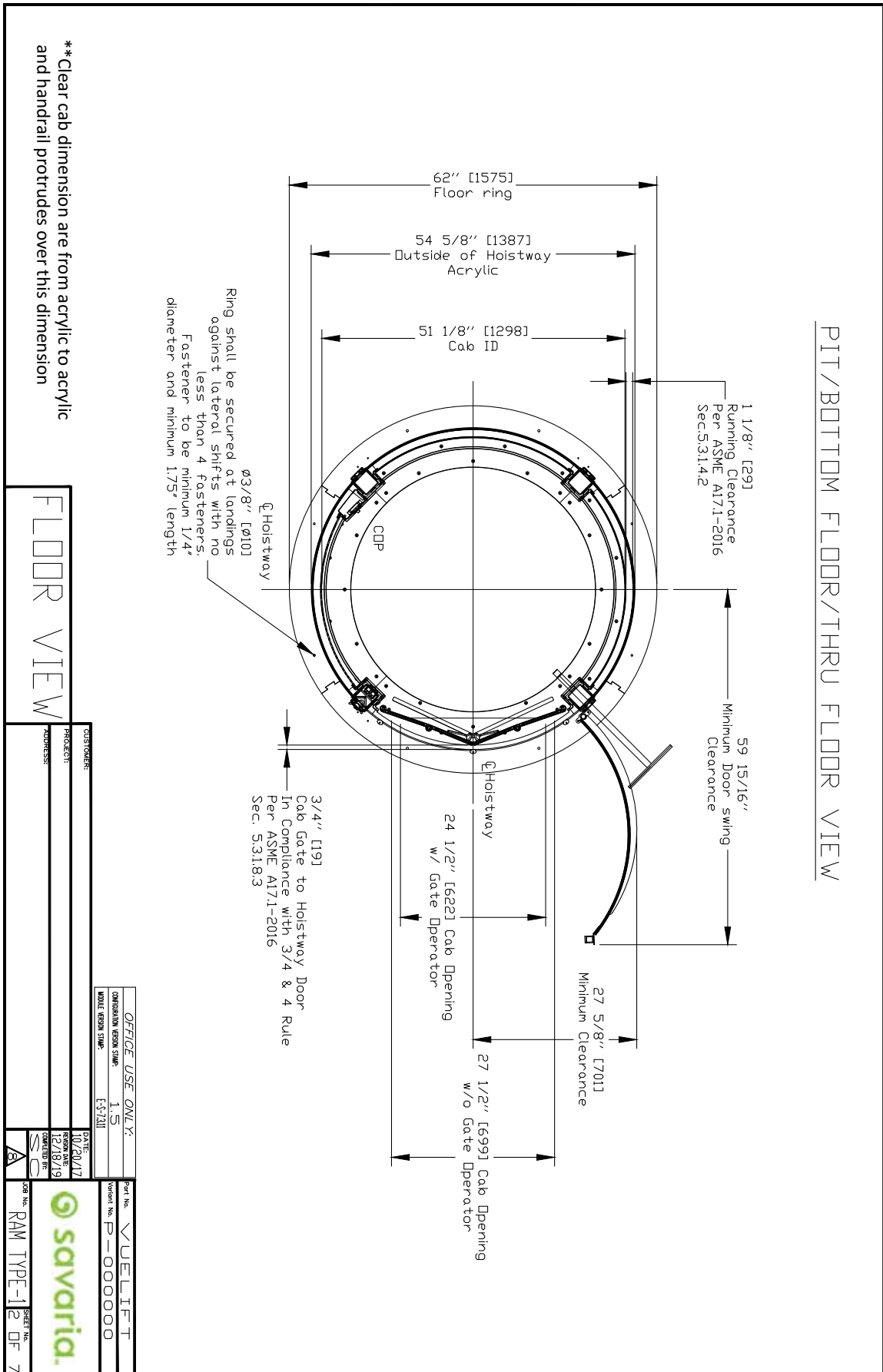


Figure 3: Balcony detail - round acrylic (RAM)

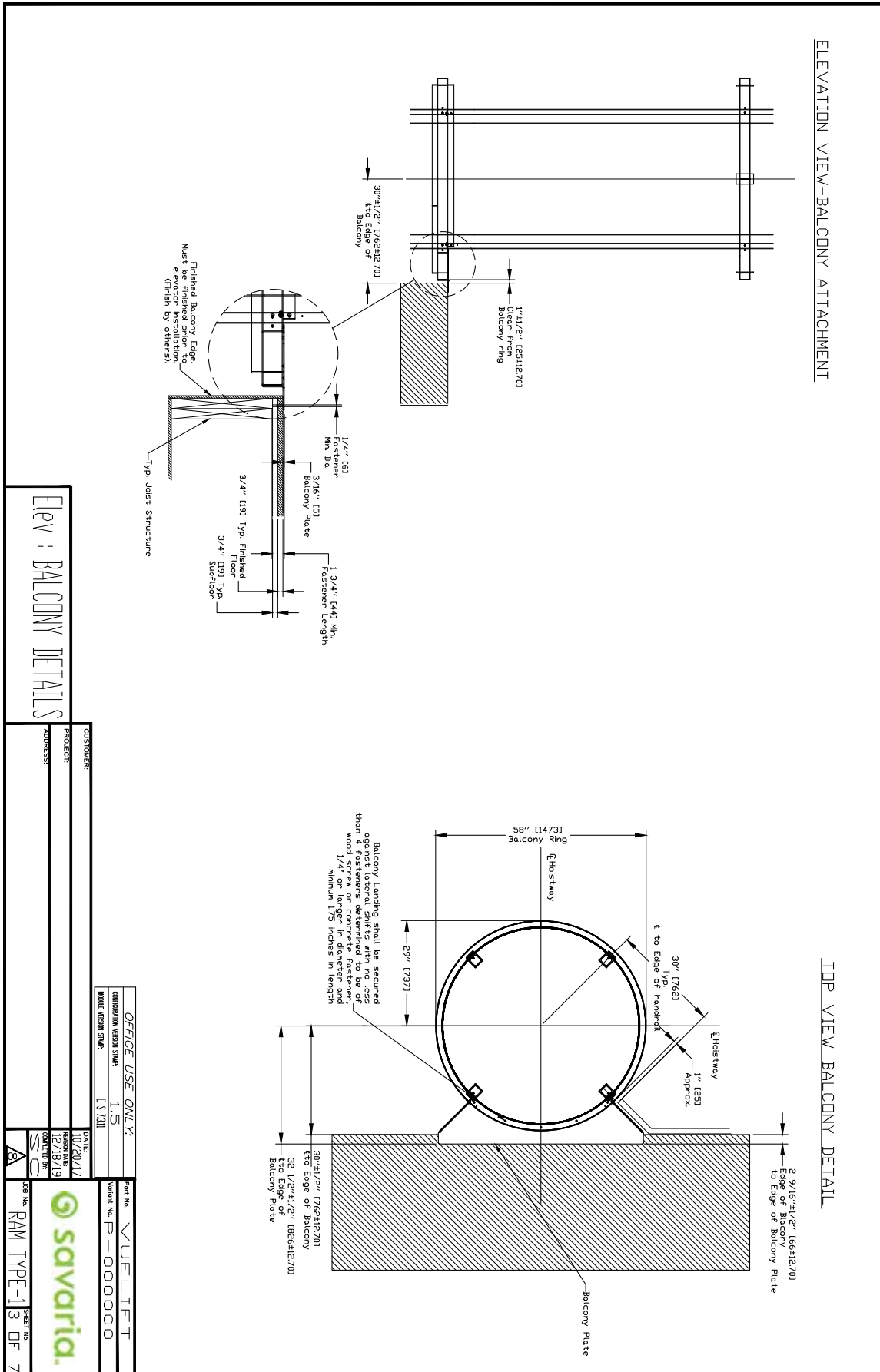


Figure 4: Balcony plate and handrail information - round acrylic (RAM)

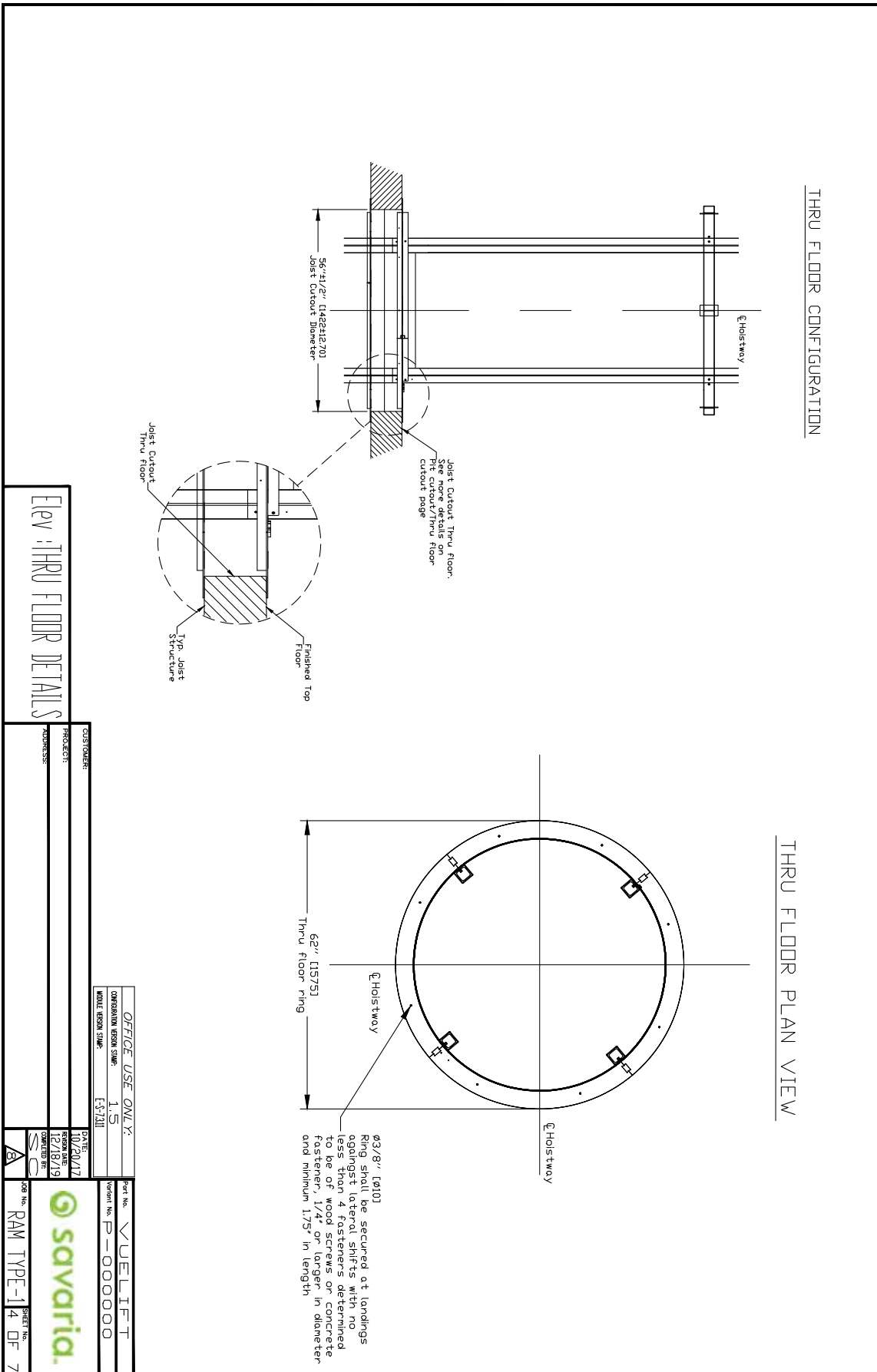


The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft should be between 2" (51 mm) and 3" (76 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

NOTE: Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 5: Thru-floor detail - round acrylic (RAM)



REV: THRU FLOOR DETAILS

CUSTOMER:	OFFICE USE ONLY:	Part No.	VUELLIFT
PROJECT:	COMPANION VERSION SWP: 1.5	Product No.	P-000000
ADDRESS:	MOLE VERSION SWP: E-5.2.11	DATE:	10/20/17
		ROOM DATE:	12/18/19
		DESIGNED BY:	SA
		ISS. No.	RAM TYPE-14 OF 7

Figure 6: Elevation view - round acrylic (RAM)

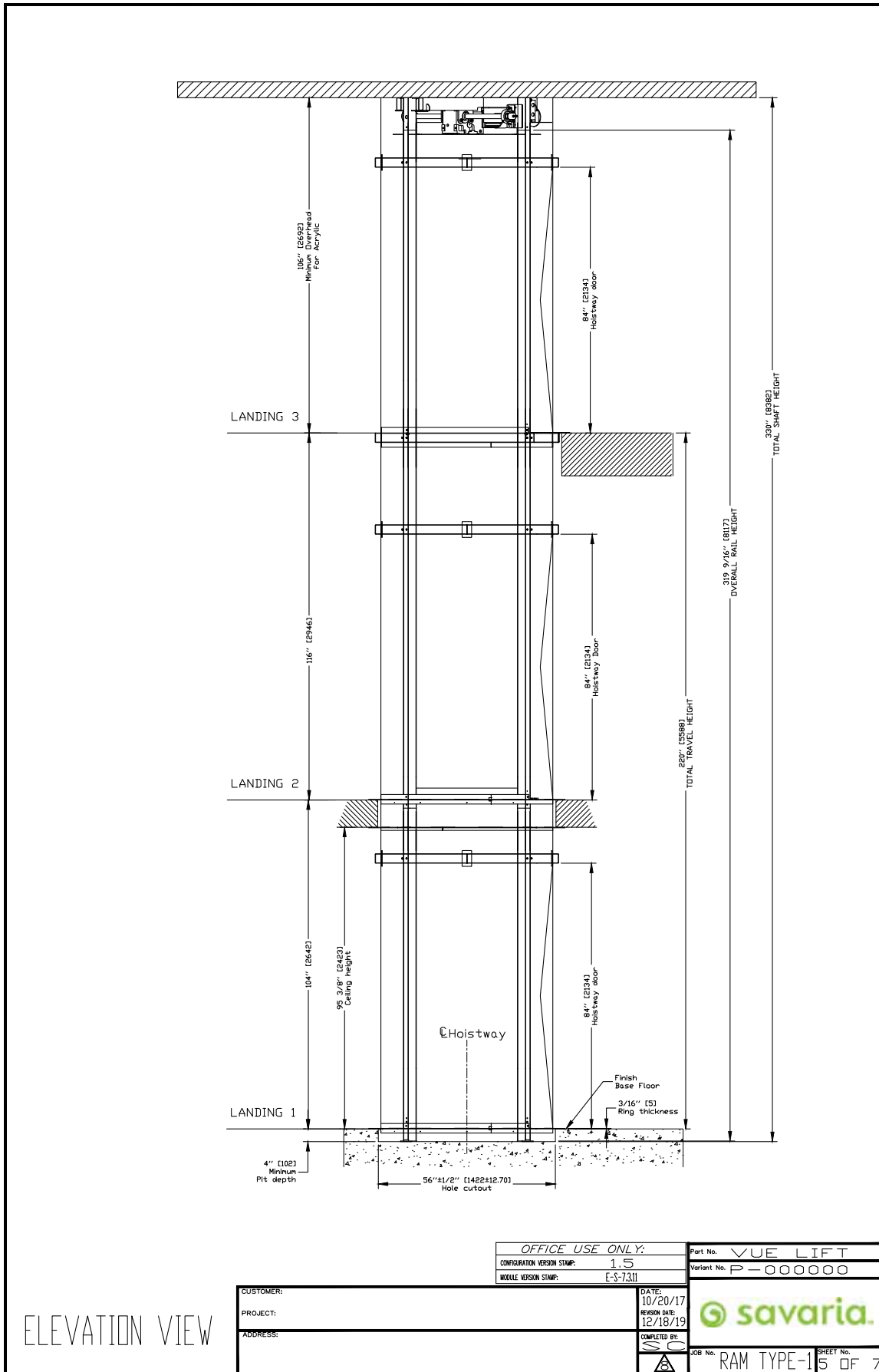


Figure 8: Datasheet - round acrylic (RAM)

PROVISIONS BY OTHERS

GENERAL
 CONSTRUCTION SITE OWNER/AGENT TO PROVIDE ALL MASONRY, CARPENTRY AND
 FINISH WORK AS REQUIRED. FLOORS SHALL BE IN FINISHED STATE PRIOR TO
 INSTALLATION OF UNIT.
 DIMENSIONS CONTRACTOR/CUSTOMER TO VERIFY ALL
 DIMENSIONS CONTRACTOR/CUSTOMER TO VERIFY ALL
 DIMENSIONS CONTRACTOR/CUSTOMER TO VERIFY ALL

STRUCTURAL
 * STRUCTURAL ENGINEER TO ASSURE THAT BUILDING WILL SAFELY
 SUPPORT LOADS. STRUCTURAL ENGINEER TO PROVIDE ALL TABLES OR THIS
 DRAWING FOR PIT/FLOOR LOADS IMPOSED BY THE EQUIPMENT.
 NOTE: PER ASCE 1011-2016
 THE CLEARANCE BETWEEN THE HOISTWAY DOORS OR GATES AND THE HOISTWAY EDGE
 OF THE LANDING SHALL NOT EXCEED 3/16" THE DISTANCE BETWEEN THE HOISTWAY
 AND THE LANDING DOOR OR GATE AND THE CAR DOOR OR GATE SHALL NOT EXCEED
 3/16"

ELECTRICAL
 OWNER SHALL USE SPECIFICATIONS BEYOND LOCAL CODES. DISCONNECTS TO
 BE PROVIDED BY CONTRACTOR/CUSTOMER. ALL ELECTRICAL WORK SHALL BE IN
 ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE MOST CURRENT
 ASSEMBLY LOCATION PRIOR TO INSTALLATION.
 ELECTRICAL GFCI OUTLET IN HOISTWAY PIT.
 REPERMANT POWER BEFORE INSTALLATION CAN BEGIN. PERMANT POWER MUST BE
 SUPPLIED.

MENTRANCES
 HOISTWAY BALCONY LEVELS REQUIRE HANDRAILS TO BE INSTALLED PER LOCAL
 CODES AFTER INSTALLATION IS COMPLETED. HANDRAIL AND INSTALLATION TO BE
 PROVIDED BY CONTRACTOR/CUSTOMER. VISIBILITY AND LOCAL INSTALLER ARE
 NOT RESPONSIBLE FOR HANDRAIL INSTALLATION OR HANDRAILS.

POWER SUPPLY SPECIFICATIONS	DISCONNECT SIZE	FUSE SIZE	VOLTS	PHASE	AMPERAGE
MOTOR & EQUIP	30 AMPS	30 AMPS	230	SINGLE	20.2 AMPS
CAB LIGHTS	15 AMPS	15 AMPS	115	SINGLE	-
PIT LIGHT	15 AMPS	15 AMPS	115	SINGLE	-

If a telephone circuit is required, OPTION FOR ELEVATOR JACK IS PROVIDED TO THE
 AND CONTROLLED BY OTHERS. THIS CIRCUIT SHALL BE BROUGHT TO A LOCATION NEXT TO THE
 CONTROLLER AND BE AVAILABLE TO CONNECT AND TEST UPON ELEVATOR INSTALLATION.

SCOPE OF WORK
 THE UNIT OF WORK FOR ELEVATOR BY A COMPETENT LEVEL, LICENSED CONVEYANCE
 MECHANIC, AND MEETS OR EXCEEDS THE APPLICABLE REGULATIONS OF ALL GOVERNING
 AGENCIES AND IS IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE MOST CURRENT
 EDITION OF THE FOLLOWING CODES AND STANDARDS:
 ASME A17.1 SECTION 5.2 - SAFETY CODE FOR ELEVATORS AND ESCALATORS,
 PRIVATE RESIDENCE ELEVATORS,
 NFPA 70-2008 THE NATIONAL ELECTRICAL CODE,
 CSA B44/ASME A17.5 ELEVATOR AND ESCALATOR ELECTRICAL EQUIPMENT,
 LOCAL CODES AND REGULATIONS, AS APPLICABLE.
 AFTER INSTALLATION THE UNIT WILL BE INSPECTED BY AN INSPECTOR AS REQUIRED
 BY LOCAL LAWS.

GENERAL
 CLASSIFICATION: Residential Building
 APPLIED CODE: ASME 171-2016 SEC. 5.3
 NEC 2008
 FULL Clear Acrylic-Complies with ANSI Z97.1

VALS: _____
 NUMBER OF FLOORS: 3
 MODEL: Round Acrylic
 CAPACITY: 840 lbs. (381 kg)
 NOMINAL SPEED: 32 fpm, 101.66 m/s
 CAB FLOOR AREA: 1191 Square Feet (111 sqmeters)
 CAB INT HEIGHT: 84 Inches (2133 mm)
 CAB WEIGHT: 700 lbs. (318kg)
 TOTAL TRAVEL: 339 Inches (102-305mm)
 PIT DEPTH (OPTIOM): 4 Inches
 POWER SUPPLY: 50/60Hz Single Phase 230V
 SAFETIES: 2 Type A Instantaneous Safeties in compliance with
 ASME A17.1 Sections 217.81 & 117.51
 Mfg. Savaria P/N: VLS8001-01

SUSPENSION:
 TYPE: Galvanized Aircraft Cable 2x3/8" dia
 CONSTRUCTION: 1WRC 7 x 19 RHRL
 NOMINAL STRENGTH: 14,400 lbs. (6531 kg)
 WT. OF ROPES: 0.243 lbs/ft (3.616 g/cm)
 TRAVEL CABLE WT: 0.228 lbs/ft (3.393 g/cm)

DRIVE TRAIN:
 TYPE: Winding Drum
 MOTOR: 1 hp with Integrated Brake
 TRANSMISSION: Ultra-Low/Variable 3-Stage Right Angle Helical-Bevel Drive
 MOTOR CONTROL: Pre-Programmed Variable Freq. Drive
 DOOR INTERLOCKS: Honeywell RJD-G-13B certified in compliance with
 ASME A17.1 Sections 212.4.3
 PIT/FLOOR LOAD: (4# of Floors*660) + 2193 Dead Load (lbs)
 (4# of Floors*57) + (4# of Floors*27.22) + 995 Dead Load (kg)

PIT FLOOR TO SUPPORT LOAD OF: 1600 Kg
IMPACT LOAD: 13703 lbs

LANDING CHART

LANDING CHART	LANDING 1	LANDING 2	LANDING 3
DOOR TYPE	SWING	DOOR SWING	DOOR
ENTRANCE SIDE	6	6	6
DOOR SWING	LH SWING	LH SWING	LH SWING
LOCK TYPE	HONEYWELL	HONEYWELL	HONEYWELL
KEY SWITCH	NO	NO	NO
FLOOR MARKING	NO	NO	NO
LANDING CONFIGURATION	PIT	THRU-FLOOR	BALCONY

OPTIONS:
 BUFFER SPRING: No
 COLOR: Texture Black (std) PK622N365

DATA SHEET

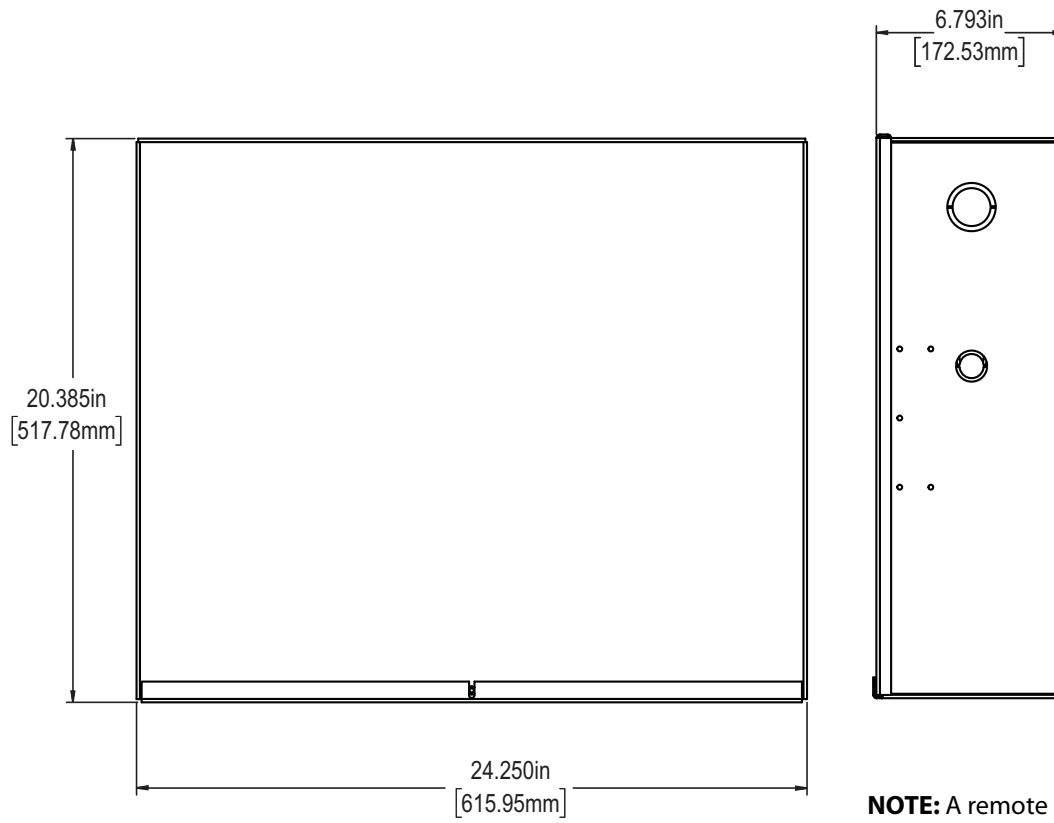
ENTRANCE SIDE LEGEND

The diagram shows a central circle labeled 'PLATFORM'. Four arrows point outwards from the platform, labeled 'SIDE A', 'SIDE B', 'SIDE C', and 'SIDE D'. Below the platform, an arrow points to the left, labeled 'TYP LEVEL'.

OFFICE USE ONLY:

OPERATION FROM SHIP:	1-5
DATE:	12/18/19
CREATED BY:	S.A.C.
JOB No.:	RAM TYPE-16 OF-7

savaria

Figure 11: Controller box dimensions- round acrylic (RAM)**Remote Controller, 1.5 HP**

NOTE: A remote controller cannot be more than 50 ft (15.24 m) from the top of the unit for the cable to reach.

Chapter 2: Octagonal Acrylic (OAM) & Octagonal Glass (OGM)



Specifications - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

Specification	Specification Data
Load capacity	Acrylic model: 840 lb (381 kg) Silica glass model: 950lb (432 kg)
Maximum travel	55 ft (16.76 m)
Travel speed	Acrylic model: 32 ft/min (0.16 m/s) Silica glass model: 40 ft/min (0.20 m/s)
Noise level (for typical installation)	65 dB
Daily cycle	Normal: 40 Heavy: 80 Excessive: 150 Maximum starts in 1 hour on standard installation: 20 NOTE: Please consult your Sales Representative if there a chance you may exceed these amounts.
Maximum levels serviced	6
Minimum overhead	Acrylic model (standard cab): 106" (2692 mm) Acrylic model (optional short cab): 96" (2438 mm) Silica glass model: 108" (2743 mm)
Cab	Cab walls: Full clear acrylic or silica glass Cab interior height (standard): 84 in (2.13 m) Cab weight (acrylic): 500 lb (250 kg) Cab weight (silica glass): 1000 lb (455 kg) Cab floor area: 12.83 sq ft (1.19 sq m)
Floor by others (in cab)	3/4" (19 mm) maximum
Footprint	59.31" x 45.5" (1.5 m x 1.16 m)
Power supply	30A, 230-V, single-phase, 50/60 Hz
Cab lighting	15A, 115V, single-phase, 50/60 Hz
Suspension	Type: Galvanized aircraft cable (2 x 3/8" diameter) Construction: IWRC 7 x 19 RHRL Nominal strength: 14,400 lb (6,545 kg) Weight of ropes: 0.243 lb/ft (3.616 g/cm) Travel cable weight: 0.228 lb/ft (3.393 g/cm)
Drive train	Type: Winding drum Motor (acrylic model): 1.5 HP with integrated brake Motor (silica glass model): 3.0 HP with integrated brake Transmission: Ultra-low vibration, 3-stage, right-angle, helical-bevel drive Motor control: Preprogrammed variable frequency drive Door interlocks: Xtronics
Pit/floor load	Refer to the section "Load Calculations"
Distance between 2 landings	93" (2362 mm) minimum
Pit depth	4" - 12" (102 mm - 305 mm) No pit with optional short ramp
Temperature operating range (environment)	- 10°C to + 40°C / 14°F to 104°F NOTE: For optimal running conditions, each landing of the unit should be in a climate-controlled environment.

Specification	Specification Data
Safety features	Pit run/stop switch and car top run/stop switch Emergency stop switch Safety brakes Electrical circuit overspeed Manual lowering Emergency battery back-up for cab lighting and lowering
Options	Optional configurations: Type 1, 2, 3 Optional cab wall and hoistway: Acrylic or low-iron silica glass Optional colors: <ul style="list-style-type: none"> • White (Texture White PX521W859) • Silver (Texture Silver PX521S343) • Custom powder-coat frame Note that Black is the standard color (Texture Black PX622N365) Other options: Up to 6 stops, balcony attachment Savaria Link remote monitoring (Vuelift Micro-6 only)

Safety First - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

3/4 & 4 Rule (Code 2016 and After)

The ASME A17.1-2016/CSA B44-16 Safety Code for Elevators and Escalators **(2016 AND AFTER)** mandates the following maximum hoistway door clearances (see drawing on next page):

- Clearance between the hoistway door and the hoistway edge of the landing sill shall not exceed 0.75" (19 mm).
- Distance between the hoistway face of the landing door and the car door shall not exceed 4" (102 mm).
- Vuelift Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

Electrical Requirements - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

Your electrician and phone installer must supply the following connections:

- Main Disconnect - One 230V single-phase, 30 Amp fused disconnect box with 20 Amp fuse/breaker. If voltage is not 230V minimum, a buck-boost transformer is required.
- Lighting Disconnect - One 120V, 15 Amp fused disconnect or circuit breaker for cab lighting.
- Telephone Line - One telephone line jack in close proximity to the controller.
- Electrical Outlet - One 15A GFCI outlet shall be installed near the pit or base ring.

NOTE: Savaria does not provide power cable to main disconnect.

Recommended Manufacturers for Fused Disconnect

Square D

- Main disconnect: 230V single-phase disconnect model # H221N.
240V, 30 Amp with Interlock Kit - ELK031 Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

Siemens

- Main disconnect: 230V single-phase disconnect model #HF221N.
240V, 30 Amp with Interlock Kit-HA 161234 Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

G.E.

- Main disconnect: 230V single-phase disconnect model # TH3221.
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect - 120V, 15 Amp fused disconnect or circuit breaker.

Cutler Hammer

- Main disconnect: 230V single-phase disconnect model # DH221NGK.
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel itself): Square D or Siemens only.

Provisions By Others - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

General Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

Dimensions

The contractor/customer must verify all clearance dimensions prior to delivery of the unit.

Structural Floor Loads

A structural engineer is required to ensure that the building will safely support all loads imposed by the lift equipment. Refer to the tables on the installation drawings (shop drawings) for pit/floor loads imposed by the equipment. Refer to the section, Load Calculations.

Electrical Power Supply

See the following table. Lockable fused disconnects must be installed in compliance with electrical code and are to be provided prior to installation of the unit. Roughed in power to the lift must be provided to the head assembly location prior to installation of the unit.

Power Supply Specifications	Disconnect Size	Time Delay Fuse Size	Volts	Phase
Motor and equipment	30 Amps	30 Amps	230 Volts	Single
Cab lights	15 Amps	15 Amps	115 Volts	Single
Pit light	15 Amps	15 Amps	115 Volts	Single

Telephone

If a telephone circuit is required, the jack is to be provided and installed by others. This circuit shall be brought to a location next to the controller and be available to connect and test upon elevator installation.

Electrical Outlet

One 15-Amp GFCI outlet shall be installed near the pit or base ring.

Permanent Power

Before installation can begin, permanent power must be supplied.

Entrances Handrails

All balcony levels require handrails to be installed per local codes after installation is completed. The handrail and installation is to be provided by the contractor/customer. Savaria Concord Lifts Inc. and/or local installer are not responsible for handrail installation or materials.

Savaria Link Option (Vuelift Micro-6 Only)

If you have the Savaria Link Ethernet remote monitoring option, ensure that you have an Ethernet connection with Internet capability in the vicinity of the unit's controller.

If you have the Savaria Link Wireless remote monitoring option, ensure that you have a wireless signal with Internet capability in the vicinity of the unit's controller.

Site Preparation - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

The following items MUST be completed prior to installation of the elevator.

Finished Floors

- Finished floors be installed at all landing levels.

230V Power (with Switched Disconnect)

- Permanent 230V, single-phase, 30-Ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted in a location within line of sight of the elevator or controller.
- 230V source must be run from the disconnect switch to a junction box in a discrete location at the top of the elevator hoistway location.
- Disconnect must be installed according to all applicable local codes.

110V Power (with Switched Disconnect) - 2 are required

- Permanent 110V, single-phase, 15-Ampere dedicated power to a lockable, fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted near the 230V disconnect switch.

Telephone Works

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your local installer or building contractor for code requirements.

Electrical Outlet

- One 15-Amp GFCI outlet shall be installed near the pit or base ring.

Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting Savaria.

Floor and Pit Cutouts Complete

- If a pit is to be used, a smooth, level surface of at least 4" must be provided. For pit depths greater than 12", contact Savaria to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed.
- Hole in floor, or modified balcony rail as directed by drawings.

Check Floor to Floor Maximum and Minimum Distances

- 106" (2692 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration.
- 96" (2438 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for modified short cab configuration.
- 108" (2743 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for silica glass model.

Drywall and Painting

- All drywall and painting must be complete.

Load Calculations - Octagonal Acrylic (OAM)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Vuelift elevators are designed such that the dead load and impact load are transferred to the lowest level through the rail base plates and rings when installed properly in a building with structural integrity including consistent floor to floor heights.
 - Note: Vuelift elevators are designed for applications in buildings that maintain consistent floor to floor height as the building ages.
 - If floor to floor height changes after installation, the elevator **MUST** be taken out of service pending inspection and correction by a trained installation technician.
- All mid floors including the bottom floor may be subjected to a maximum lateral load of 200 lb.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, these figures DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

$$\text{Lower Floor Dead Load (lbf)} = (38 \times \text{feet of hoistway}) + (60 \times \text{number of floors}) + 2193$$

$$\text{Lower Floor Impact Load (lbf)} = 3703$$

$$\text{Lower Floor Total Load (lbf)} = \text{Dead Load} + \text{Impact Load}$$

$$\text{Mid Floor Load (lbf)} = 182$$

$$\text{Shipping Weight (lb)} = (694 \times \text{number of floors}) + 1720$$

Note: Shipping weight includes the actual component weights for all parts, plus shipping crate and packaging weight.

Examples

	<u>3 stop with 36' of hoistway</u>	<u>2 stop with 19' hoistway</u>
Lower Floor Dead Load	3,741	3,035
Lower Floor Impact Load	<u>3,703</u>	<u>3,703</u>
Lower Floor Total Load	7,444	6,738
Mid Floor Loads (on each mid floor)	182	182
Shipping Weight	3,802	3,108

Load Calculations - Octagonal Glass (OGM)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Each middle floor carries a separate Mid Floor Load supporting only that floor's metal floor rings, while the main cab/hoistway load (Lower Floor Total Load) is transferred fully to the bottom floor.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here
- **To reiterate, these figures DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

$$\text{Lower Floor Dead Load (lbf)} = (143.0 \times \text{feet of hoistway}) + (340 \times \text{number of floors}) + 3100$$

$$\text{Lower Floor Impact Load (lbf)} = 7491$$

$$\text{Lower Floor Total Load (lbf)} = \text{Dead Load} + \text{Impact Load}$$

$$\text{Mid Floor Load (lbf)} = 200$$

$$\text{Shipping Weight (lb)} = (1967 \times \text{number of floors}) + 2562$$

Note: Shipping weight includes the actual component weights for all parts, plus shipping crate and packaging weight.

Examples

3 stop with 32.2' of hoistway

Lower Floor Dead Load	8,725
Lower Floor Impact Load	<u>7,491</u>
Lower Floor Total Load	16,759

Total Load is distributed as follows:

- At any point in time, two opposing columns may have up to 12,000 lbf (6000 lbf/column)
- However, the max load carried by all four column combined will not exceed 16,759 lbf before addition of factor of safety required by local building code.

Mid Floor Loads (on each mid floor)	200
-------------------------------------	-----

Shipping Weight	8,463
-----------------	-------

Drawings - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

Octagonal Acrylic (OAM), Type 1

- Plan view
- Pit/bottom floor/thru-floor view
- Balcony details
- Balcony plate and handrail information
- Thru-floor details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Provisions by others
- Pit cutout/thru-floor cutout
- Machine room layout and wire routing

Octagonal Glass (OGM), Type 1

- Plan view
- Pit/bottom floor/thru-floor view
- Balcony details
- Balcony plate and handrail information
- Thru-floor details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Provisions by others
- Pit cutout/thru-floor cutout

Octagonal Glass (OGM), Type 2

- Plan view
- Pit/bottom floor/thru-floor view
- Balcony details
- Balcony plate and handrail information
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Provisions by others
- Pit cutout/thru-floor cutout
- Machine room layout and wire routing

Controller box dimensions

Model Specifications – Octagonal

Octagonal (Acrylic)

- Capacity: 381kg (840 lb)
- Cab Size: 1.19 sqm (12.83 sq. ft.)
- Clear Cab Size: 1118w x 1056d (44 x 41⁹/₁₆ in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
 - **Acrylic:** 1215 x 1215mm (48 x 48 in.)
 - Pit/Thru Floor Cutout: 1260 x 1260mm (49⁵/₈ x 49⁵/₈ in.)
 - **Balcony/Header Ring:** 1304 x 1304mm (51³/₈ x 51³/₈ in.)
 - **Pit/Thru Floor Ring:** 1407 x 1407mm (55³/₈ x 55³/₈ in.)
- Minimum Overhead Clearance: 2692mm (106 in.)

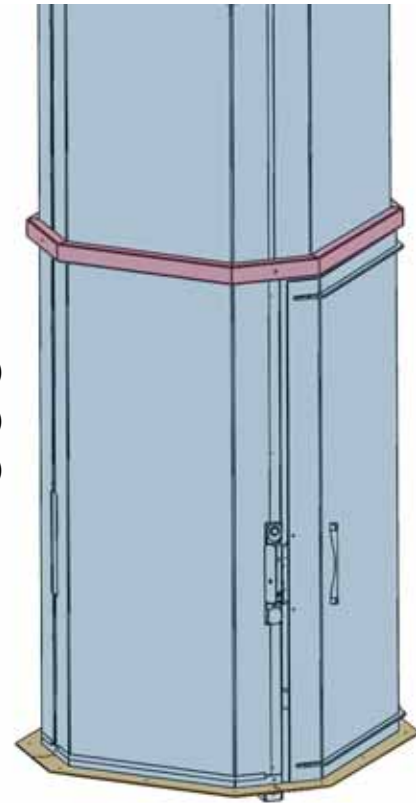


Figure 12: Plan view - octagonal acrylic (OAM) type 1

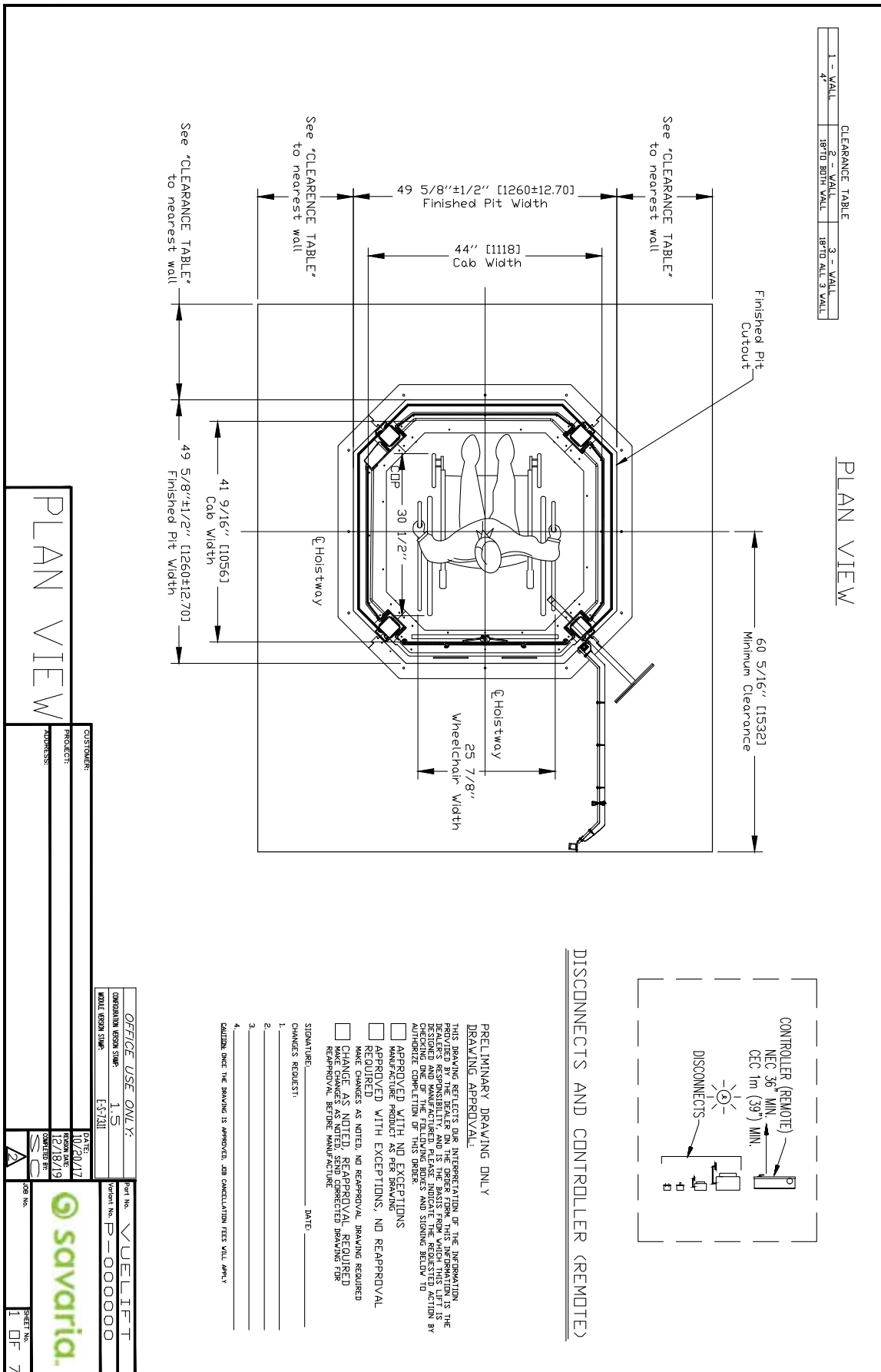


Figure 14: Balcony detail - octagonal acrylic (OAM) type 1

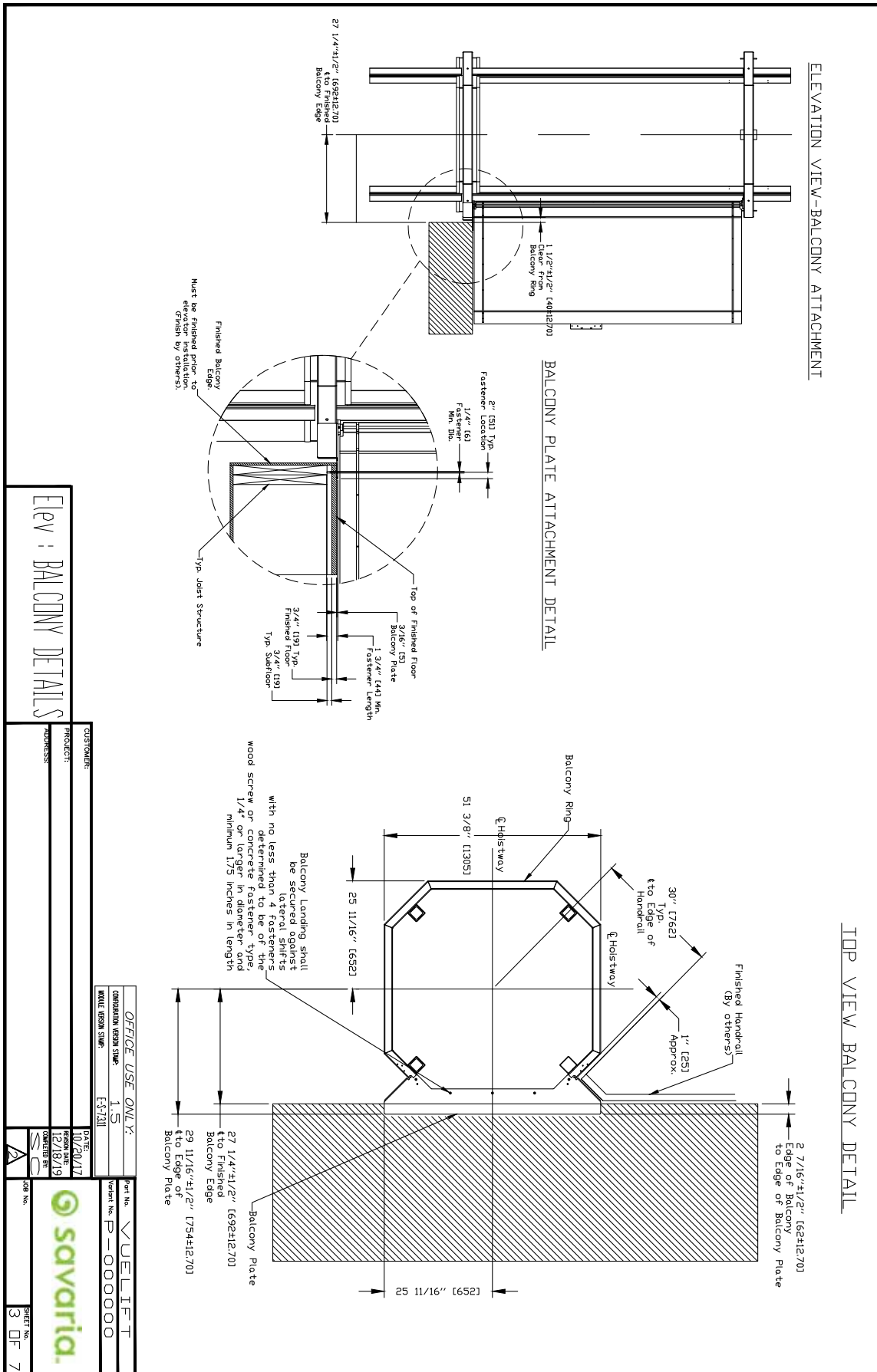


Figure 15: Balcony plate and handrail information - octagonal acrylic (OAM) type 1

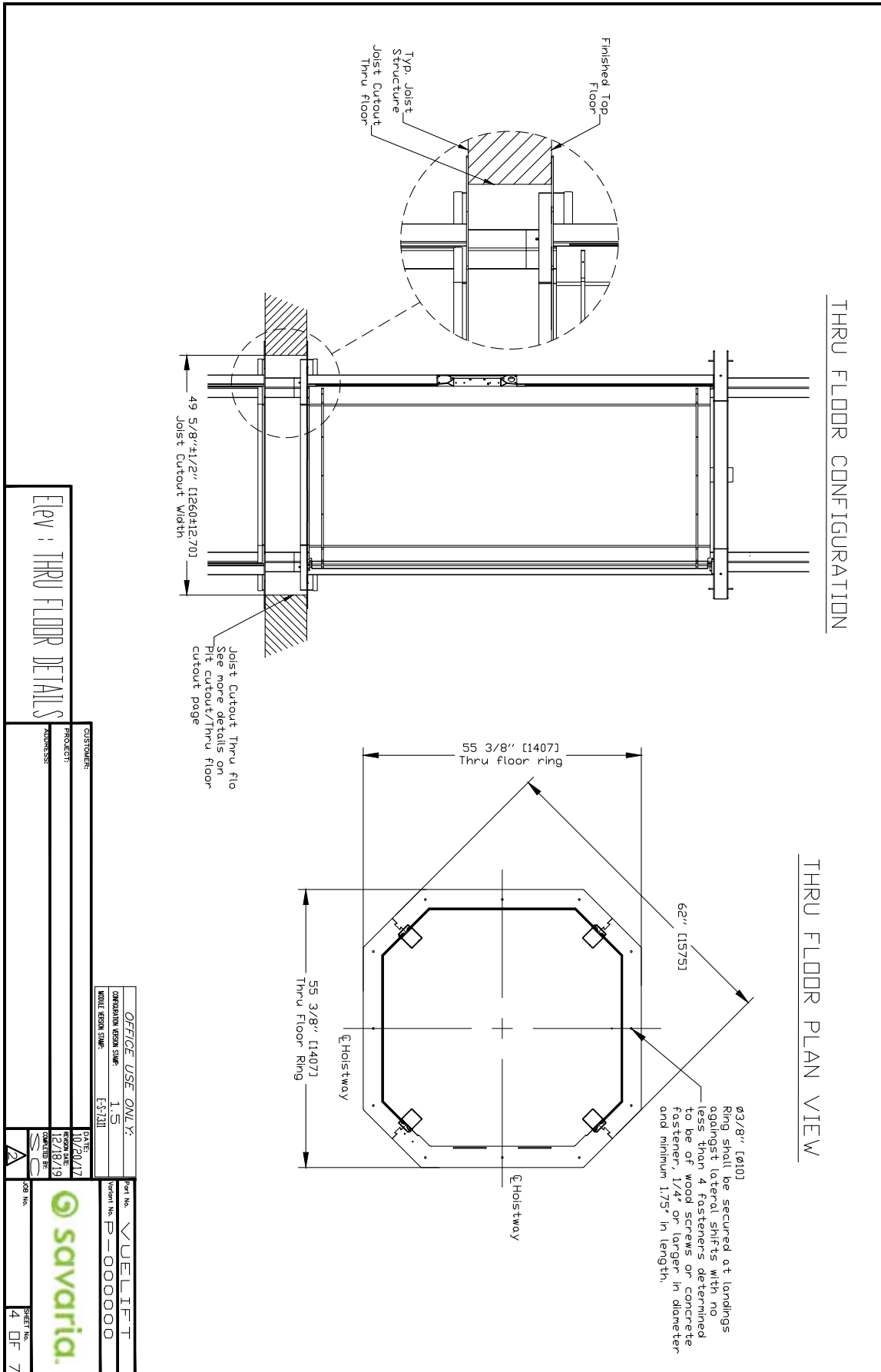


The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft should be between 2" (51 mm) and 3" (76 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

NOTE: Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 16: Thru-floor detail - octagonal acrylic (OAM) type 1



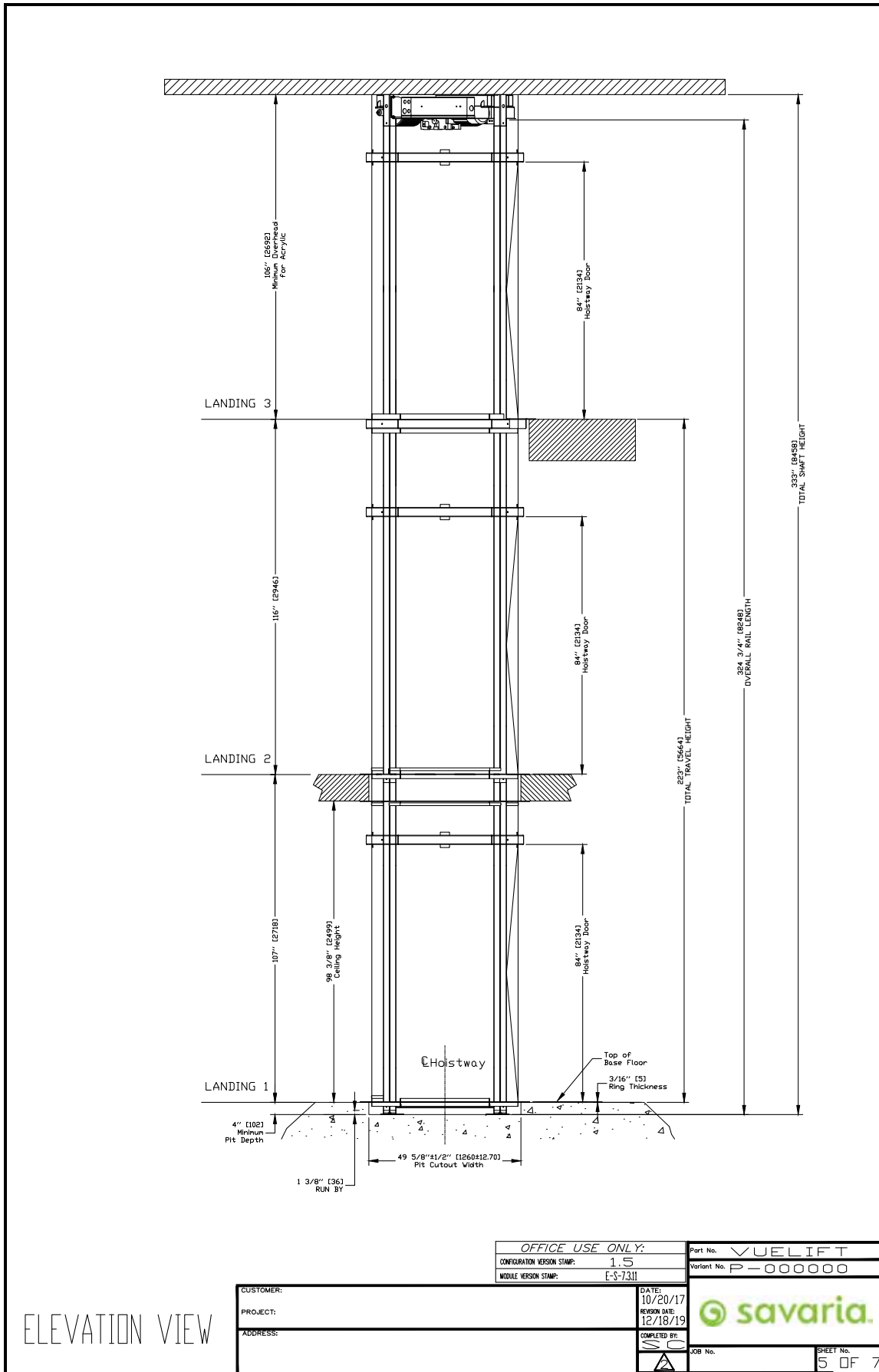
Rev: THRU FLOOR DETAILS

OFFICE USE ONLY:	Part No. VUELIIFT
CONSTRUCTION VERSION: 1.5	Project No. P-000000
DATE: 10/20/17	
DESIGNED BY: 12/18/19	
CHECKED BY: SC	
DATE: 12/18/19	
SCALE: AS SHOWN	
PROJECT: 10/20/17	
ADDRESS: 12/18/19	
CUSTOMER: 10/20/17	

savarria.

Sheet No. 4 of 7

Figure 17: Elevation view - octagonal acrylic (OAM) type 1



ELEVATION VIEW

OFFICE USE ONLY:		Part No. VUELIFT
CONFIGURATION VERSION STAMP: 1.5		Variant No. P-000000
MODULE VERSION STAMP: E-S-7311		
CUSTOMER:	DATE: 10/20/17	
PROJECT:	REVISION DATE: 12/18/19	
ADDRESS:	COMPLETED BY:	JOB No.
		SHEET No. 5 OF 7

Figure 20: Pit cutout/thru-floor cutout - octagonal acrylic (OAM) type 1

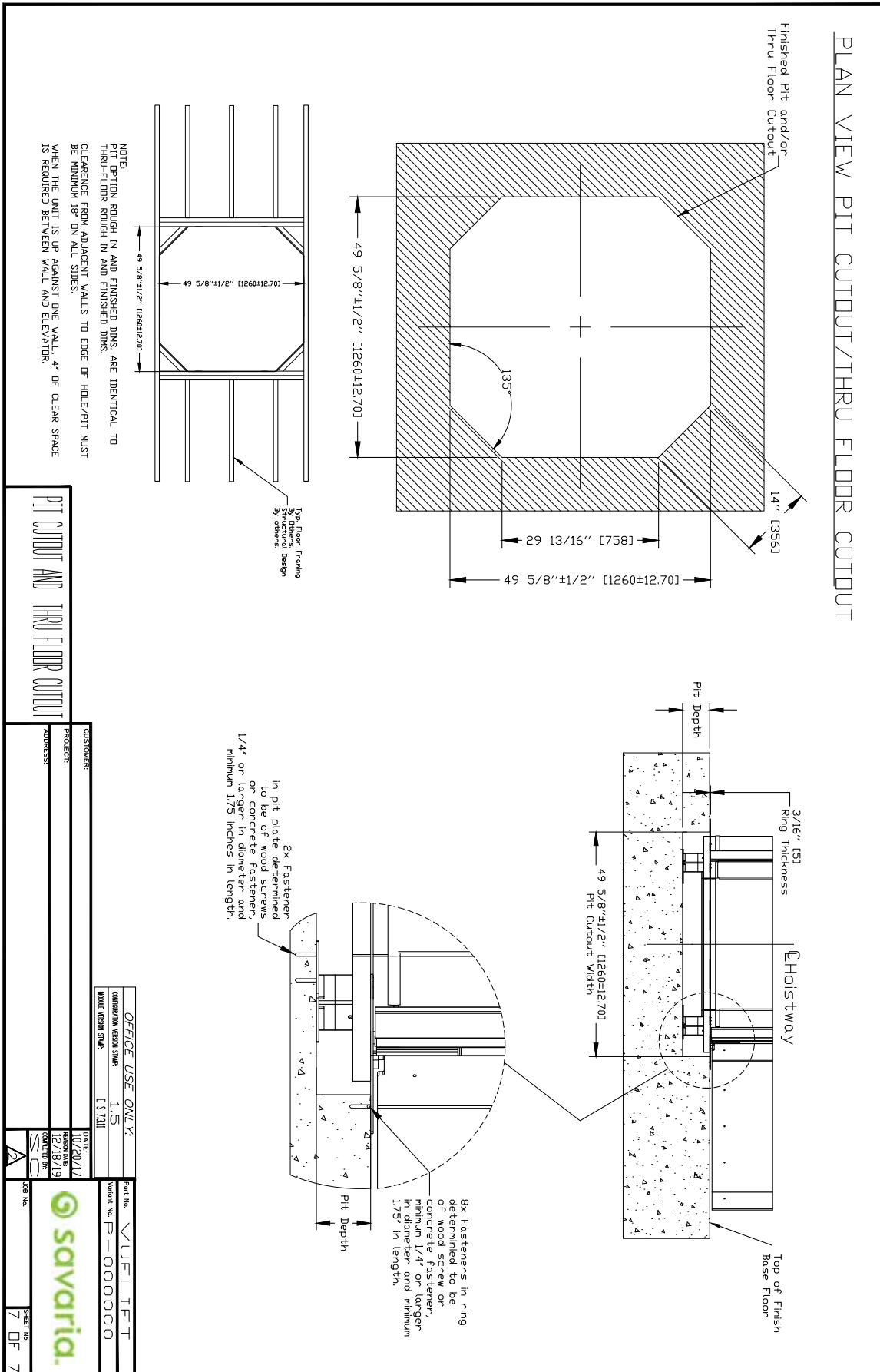
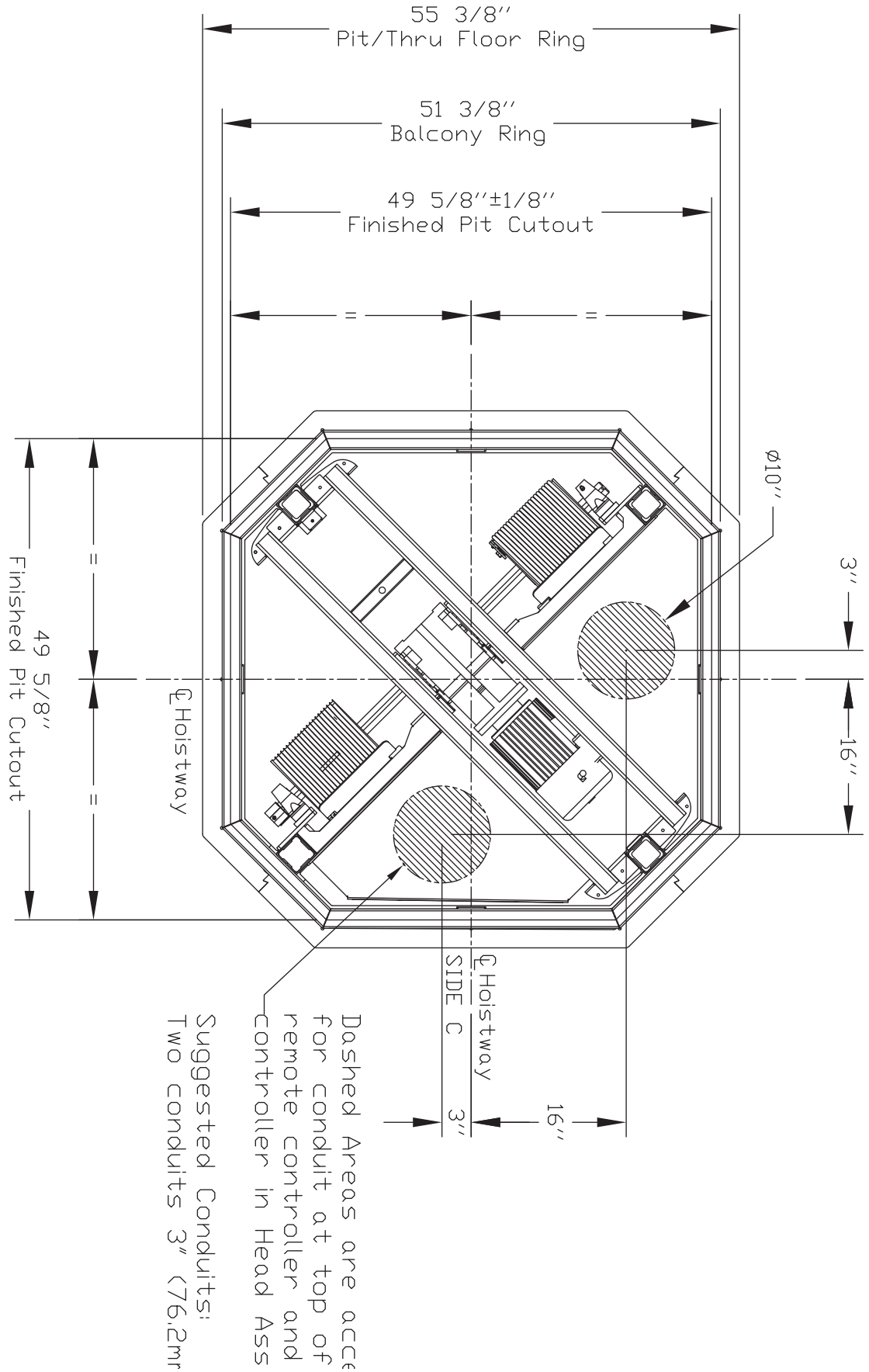


Figure 21: Machine room layout and wire routing - octagonal acrylic (OAM)



Model Specifications – Octagonal

Octagonal (Glass)

- Capacity: 432kg (950 lb)
- Cab Size: 1.19 sqm (12.83 sq. ft.)
- Clear Cab Size: 1118w x 1056d (44 x 41⁹/₁₆ in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
 - **Glass:** 1215 x 1215mm (48 x 48 in.)
 - Pit/Thru Floor Cutout: 1260 x 1260mm (49⁵/₈ x 49⁵/₈ in)
 - **Balcony/Header Ring:** 1304 x 1304mm (51³/₈ x 51³/₈ in)
 - **Pit/Thru Floor Ring:** 1407 x 1407mm (55³/₈ x 55³/₈ in)
- Minimum Overhead Clearance: 2743mm (108 in.)

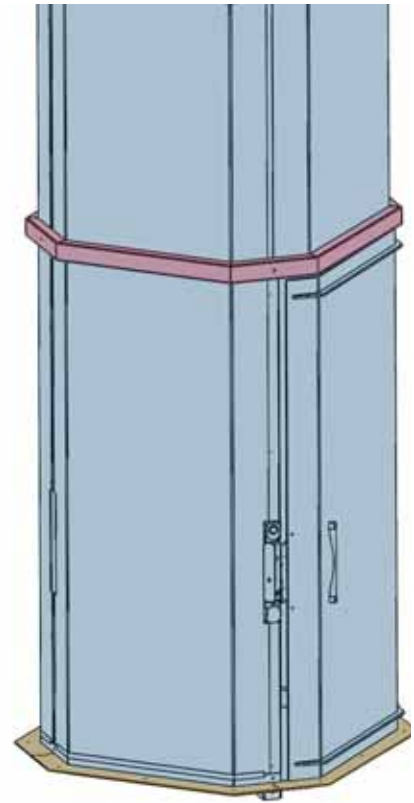


Figure 22: Plan view - octagonal glass (OGM) type 1

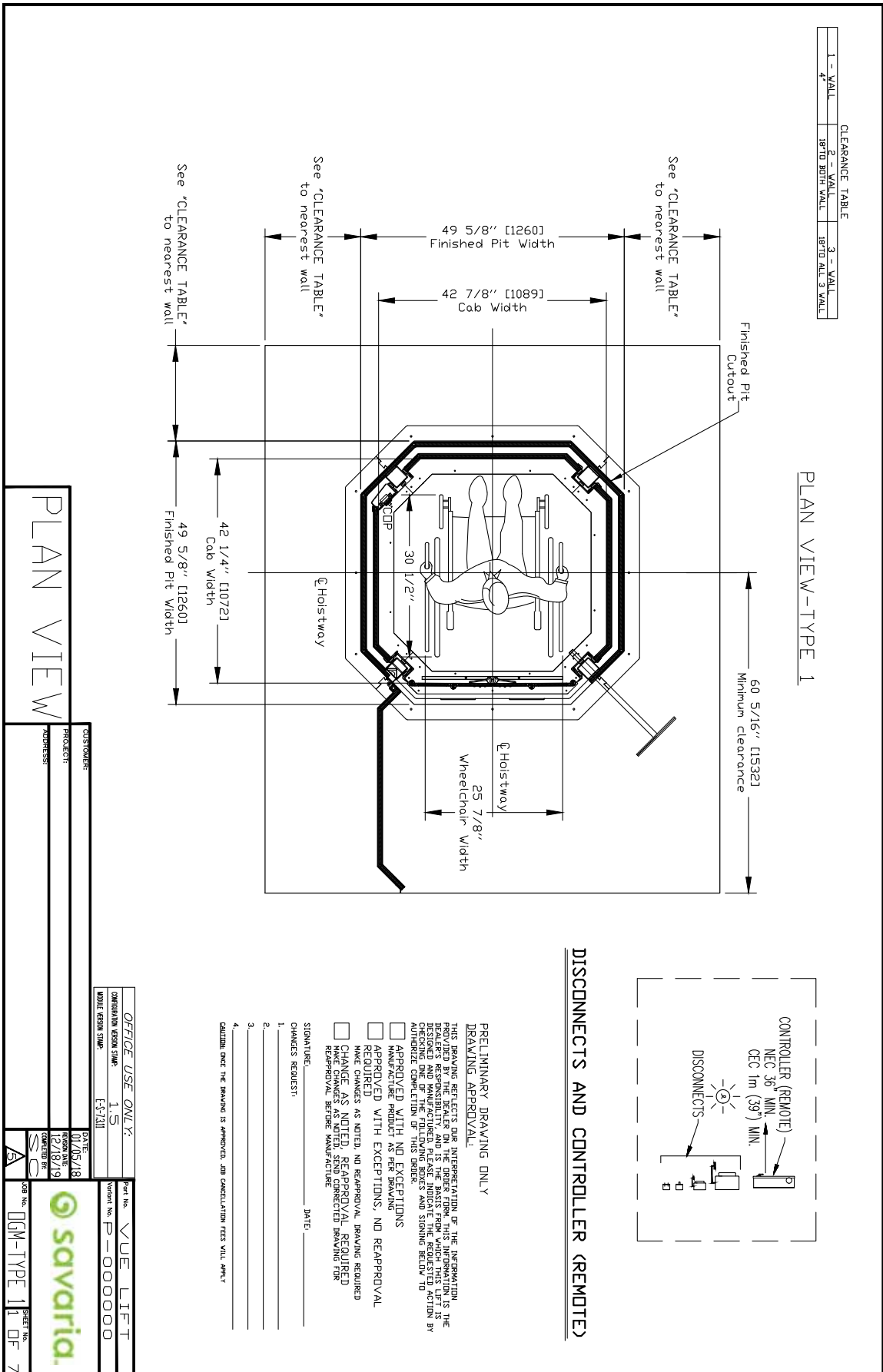


Figure 25: Balcony plate and handrail information - octagonal glass (OGM) type 1



The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft should be between 2" (51 mm) and 3" (76 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

NOTE: Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 27: Elevation view - octagonal glass (OGM) type 1

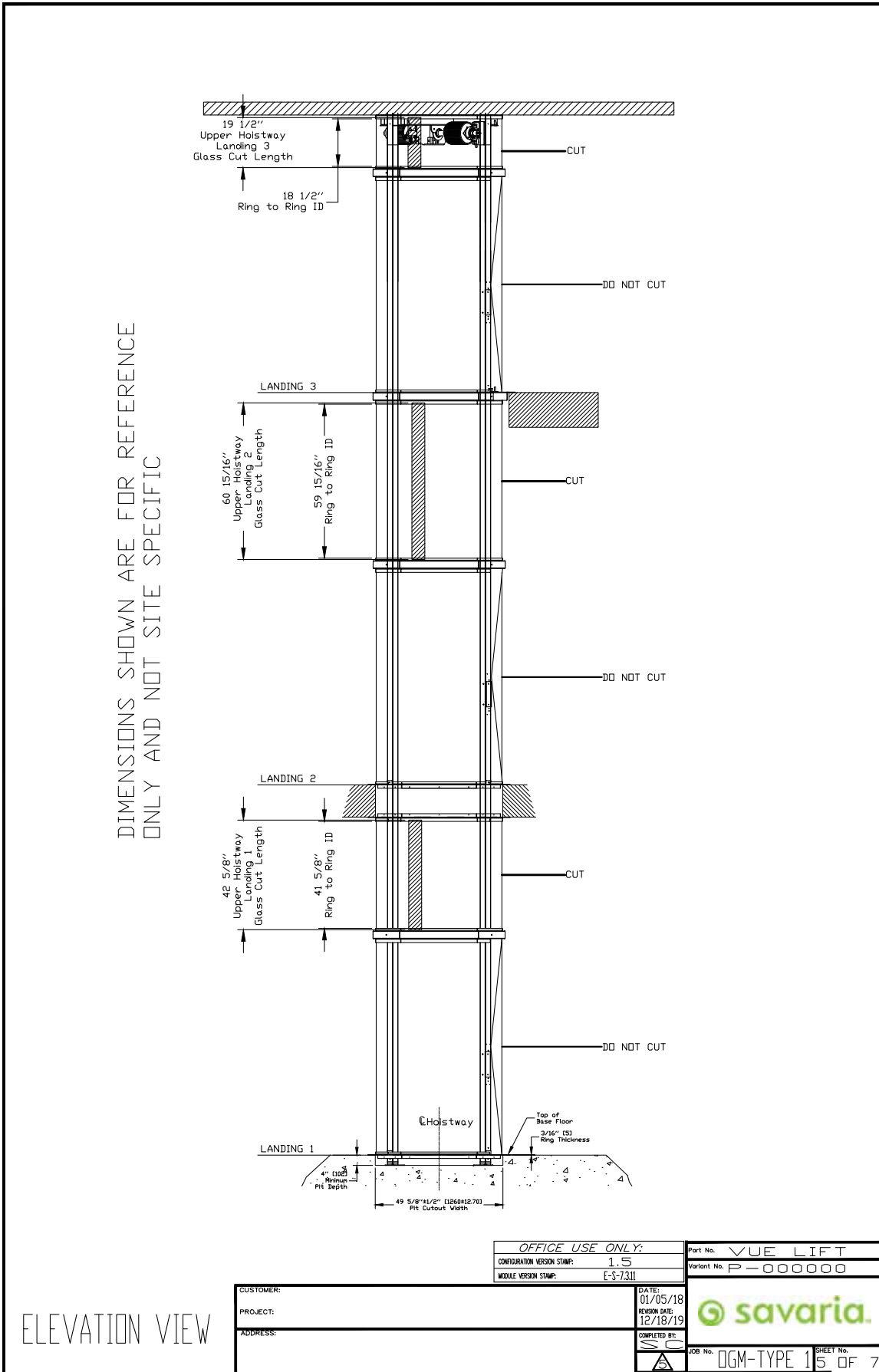


Figure 28: Elevation view - octagonal glass (OGM) type 1- extra header rings if floor-to-floor height > 14 ft

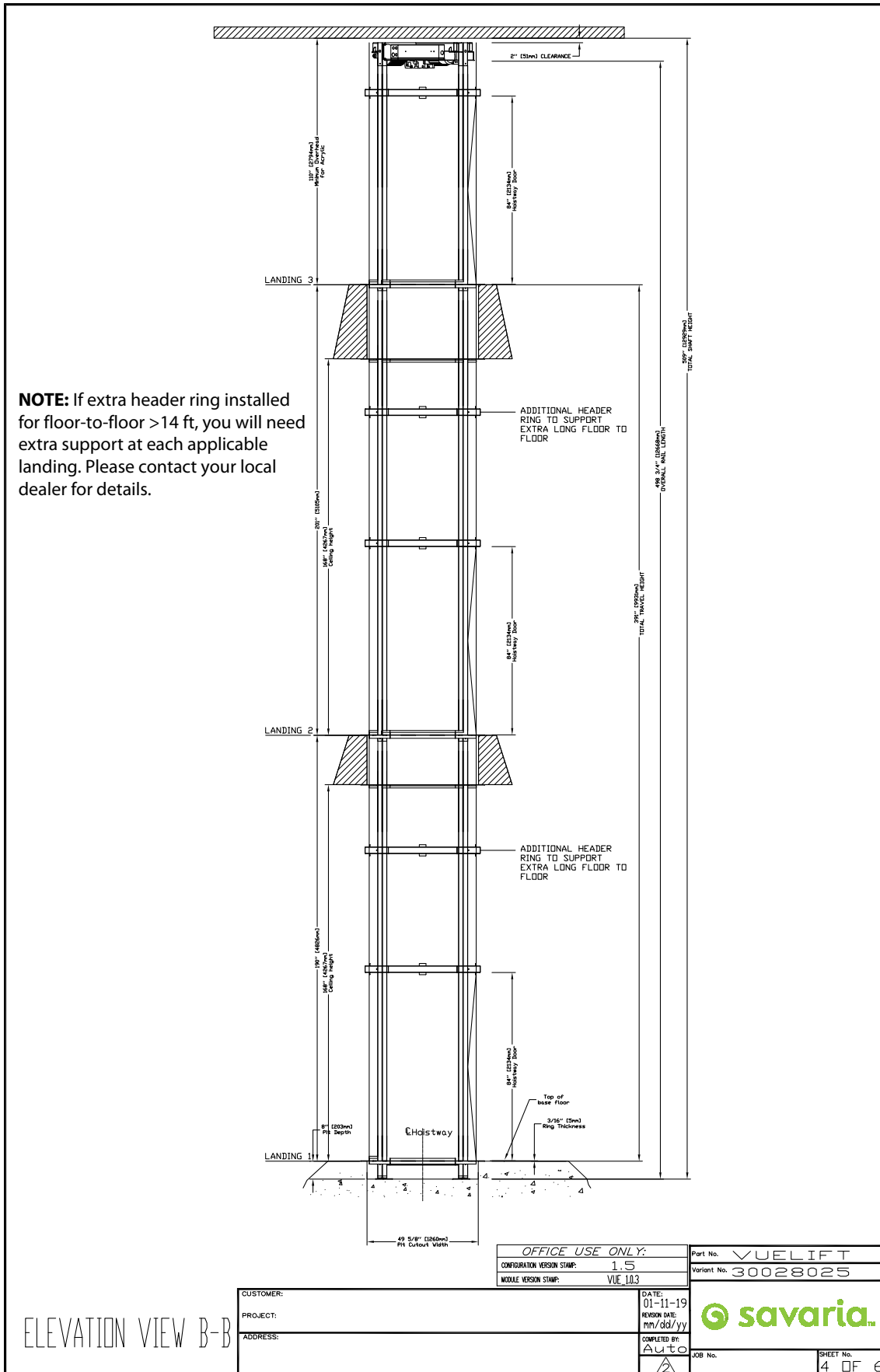


Figure 29: Datasheet - octagonal glass (OGM) type 1

PROVISIONS BY OTHERS

GENERAL
 CONSTRUCTION SITE DOWNGRANT TO PROVIDE ALL MASONRY, CARPENTRY AND
 FINISHES. ALL WORK AS REQUIRED PRIOR TO BE IN FINISHED STATE PRIOR TO
 INSTALLATION OF UNIT.
 DIMENSIONS CONFORM TO CUSTOMER TO VERIFY ALL
 DIMENSIONS PRIOR TO UNIT DELIVERY.

STRUCTURAL
 LOCAL ENGINEER TO ASSURE THAT BUILDING WILL SAFELY
 SUPPORT ALL LOADS IMPROSED BY THE EQUIPMENT. REFER TO TABLES ON THIS
 DRAWING FOR PIT/FLOOR LOADS IMPROSED BY THE EQUIPMENT.
 NOTE: PER ASME A17.1-2016
 THE LANDING STRUCTURE MUST BE RIGIDLY CONNECTED TO THE HOISTWAY FLOOR
 FACE OF THE LANDING DOOR OR GATE AND THE CAR DOOR OR GATE SHALL NOT EXCEED
 5MM.

ELECTRICAL
 POWER SUPPLY (SEE SPECIFICATIONS BELOW) LOCKABLE FUSED DISCONNECTS
 INSTALLED IN COMPLIANCE WITH ELECTRICAL CODE TO BE PROVIDED PRIOR TO
 INSTALLATION OF UNIT. ELECTRICAL CODE MAY BE PROVIDED TO LOCAL
 ELECTRICAL OFFICE PRIOR TO INSTALLATION.
 ELECTRICAL GFCI OUTLET IN HOISTWAY PIT.
 PERMANENT POWER BEFORE INSTALLATION CAN BEGIN. PERMANENT POWER MUST BE
 SUPPLIED.

MEN/RANCES
 HANDRAILS ALL BALCONY LEVELS REQUIRE HANDRAILS TO BE INSTALLED PER LOCAL
 CODES. PER LOCAL ELECTRICAL CODES, ALL HANDRAILS AND INSTALLATION TO BE
 PROVIDED PRIOR TO INSTALLATION OF UNIT. LOCAL ELECTRICAL INSTALLATION ARE
 NOT RESPONSIBLE FOR HANDRAIL INSTALLATION OR MATERIALS.

POWER SUPPLY SPECIFICATIONS	DISCONNECT SIZE	FUSE SIZE	VOLTS	PHASE	AMPERAGE
MOTOR & EQUIP	30 AMPS	30 AMPS	230	SINGLE	202 AMPS
CAB LIGHTS	15 AMPS	15 AMPS	115	SINGLE	-
PIT LIGHT	15 AMPS	15 AMPS	115	SINGLE	-

IF A TRIPPING CIRCUIT IS REQUIRED, OPTION FOR ELEVATOR WORK IS REQUIRED
 AND INSTALLED BY OTHERS. THIS CIRCUIT SHALL BE BRUGHT TO LOCATION NEXT TO THE
 CONTROLLER AND BE AVAILABLE TO CONNECT AND TEST UPON ELEVATOR INSTALLATION.

SCOPE OF WORK
 INSTALLATION OF A VUELIFT ELEVATOR BY A LICENSED LEVEL LICENSED CONVEYANCE
 MECHANIC AND MEETS OR EXCEEDS THE APPLICABLE REGULATIONS OF ALL GOVERNING
 AGENCIES AND IS IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE MOST CURRENT
 EDITION OF THE FOLLOWING CODES AND STANDARDS:
 ASME A17.1 SECTION 5.3 - SAFETY CODE FOR ELEVATORS AND ESCALATORS;
 PRIVATE RESIDENCE ELEVATORS;
 NFPA 70-2008 THE NATIONAL ELECTRICAL CODE;
 CSA B44/ASME A17.5 ELEVATOR AND ESCALATOR ELECTRICAL EQUIPMENT;
 LOCAL CODES AND REGULATIONS, AS APPLICABLE.
 AFTER INSTALLATION THE UNIT WILL BE INSPECTED BY AN INSPECTOR AS REQUIRED
 BY LOCAL LAWS.

GENERAL
 CLASSIFICATION: Residential Building
 APPLIED CODE: ASME 171-2016 SEC. 5.3
 NEC 2008
 Full Clear Laminated Safety Glass-Complies with ANSI Z97.1

WALLS: _____
 NUMBER OF FLOORS: 2
 MODEL: Octagonal Glass
 CAPACITY: 950 lbs. (4321 kg)
 NOMINAL SPEED: 40 Fpm. (10156 m/s)
 CAB FLOOR AREA: 11.91 Square Feet (1.11 sqmeters)
 CAB INT HEIGHT: 84 Inches (2133 mm)
 CAB WEIGHT: 1000 lbs. (453 kg)
 TOTAL TRAVEL: 296 5/8 Inches
 PIT DEPTH (OPTIO): 4 Inches (102-905mm)
 POWER SUPPLY: 50/60Hz Single Phase 230V
 SAFETIES: 2 Type A Instantaneous Safeties in compliance with
 ASME A17.1 Sections 217.81 & 117.51
 Mfg: Savaria P/N: VL481001-01

SUSPENSION:
 TYPE: Galvanized Aircraft Cable 2x3/8" dia
 CONSTRUCTION: 1/4WC 7 x 19 RHRL
 NOMINAL STRENGTH: 14,400 lbs. (6531 kg)
 WT. OF ROPES: 0.243 lbs/ft (13616 g/cm)
 TRAVEL CABLE WT: 0.228 lbs/ft (13,393 g/cm)

DRIVE/TRAIN:
 TYPE: Winding Drum
 MOTOR: 3 hp
 TRANSMISSION: Ultra-Low/Viscous 3-Stage Right Angle Helical-Bevel Drive
 MOTOR CONTROL: Pre-Programmed Variable-Freq. Drive
 DOOR INTERLOCKS: Honeywell RDI-G-1.5B certified in compliance with
 ASME A17.1 Sections 212.4.3
 PIT/FLOOR LOAD: (ft of Hoistway*9480) + # of Floors*650) + 2130 Dead Load (lbs)

PIT FLOOR TO SUPPORT LOAD OF: 2150 kg (4700 lbs)
 IMPACT LOAD: 55540 (lbs)

LANDING CHART

LANDING CHART	LANDING 1	LANDING 2	LANDING 3
DOOR TYPE	SWING	DOOR/SWING	DOOR/SWING
ENTRANCE SIDE	C	C	C
DOOR SWING	RI SWING	RI SWING	RI SWING
LOCK TYPE	HONEYWELL	HONEYWELL	HONEYWELL
FLOOR MARKING	NO	NO	NO
FLOOR MARKING	NO	NO	NO
LANDING CONFIGURATION	PIT	THRU-FLOOR	BALCONY

OPTIONS:
 BUFFER SPRING: No
 COLOR: Texture Block (std) PK622N365

DATA SHEET

ENTRANCE SIDE LEGEND

OFFICE USE ONLY:	Part No. VUELIFT
CONSTRUCTION VERSION: 1.5	Version No. P-0000000
MODEL VERSION: 13/21	
DATE: 01/08/18	
COMPLETED BY: 12/18/19	
JOB No. OGM-TYPE 16	SHEET No. 7

Figure 30: Pit cutout/thru-floor cutout - octagonal glass (OGM) type 1

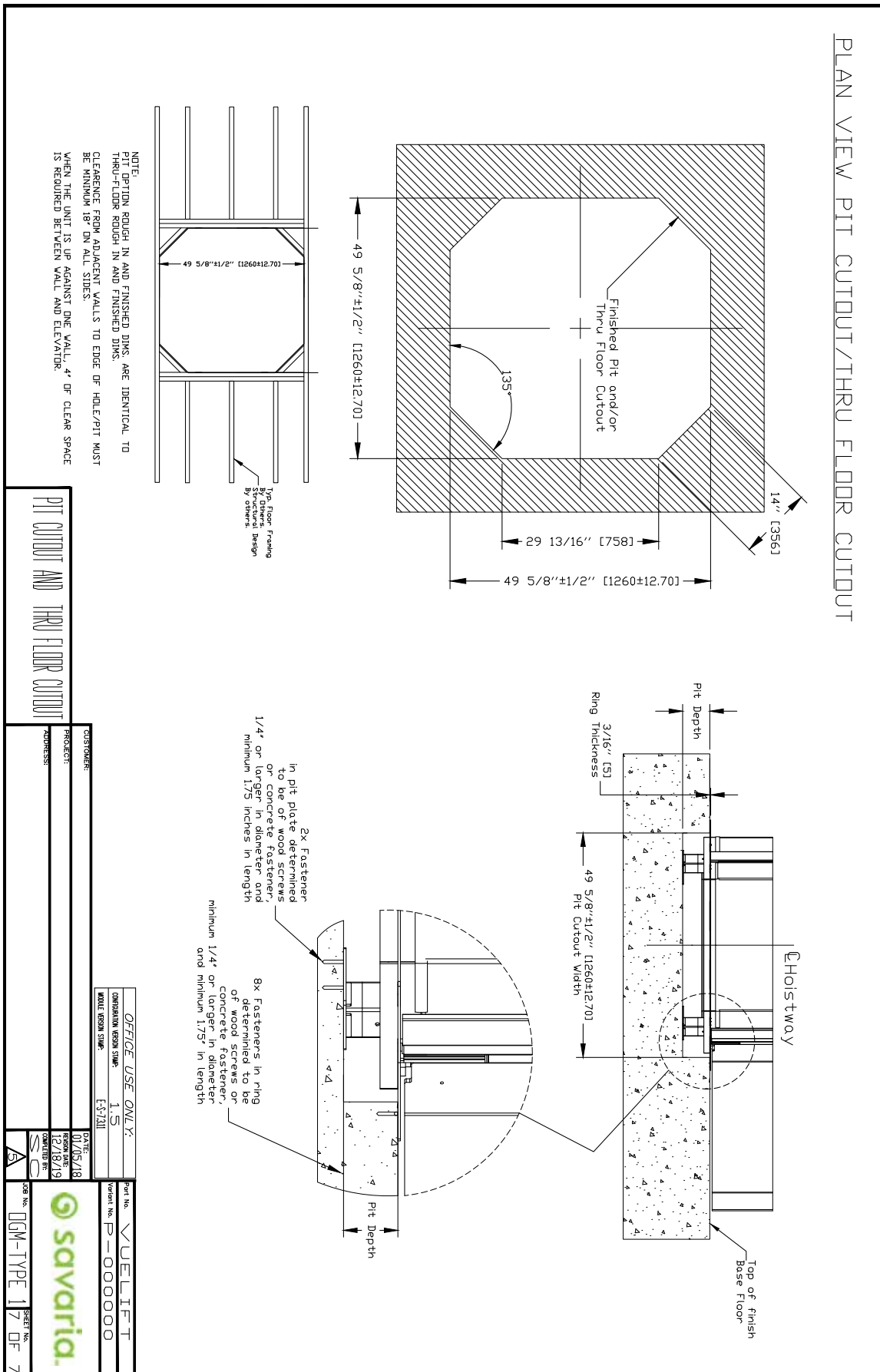
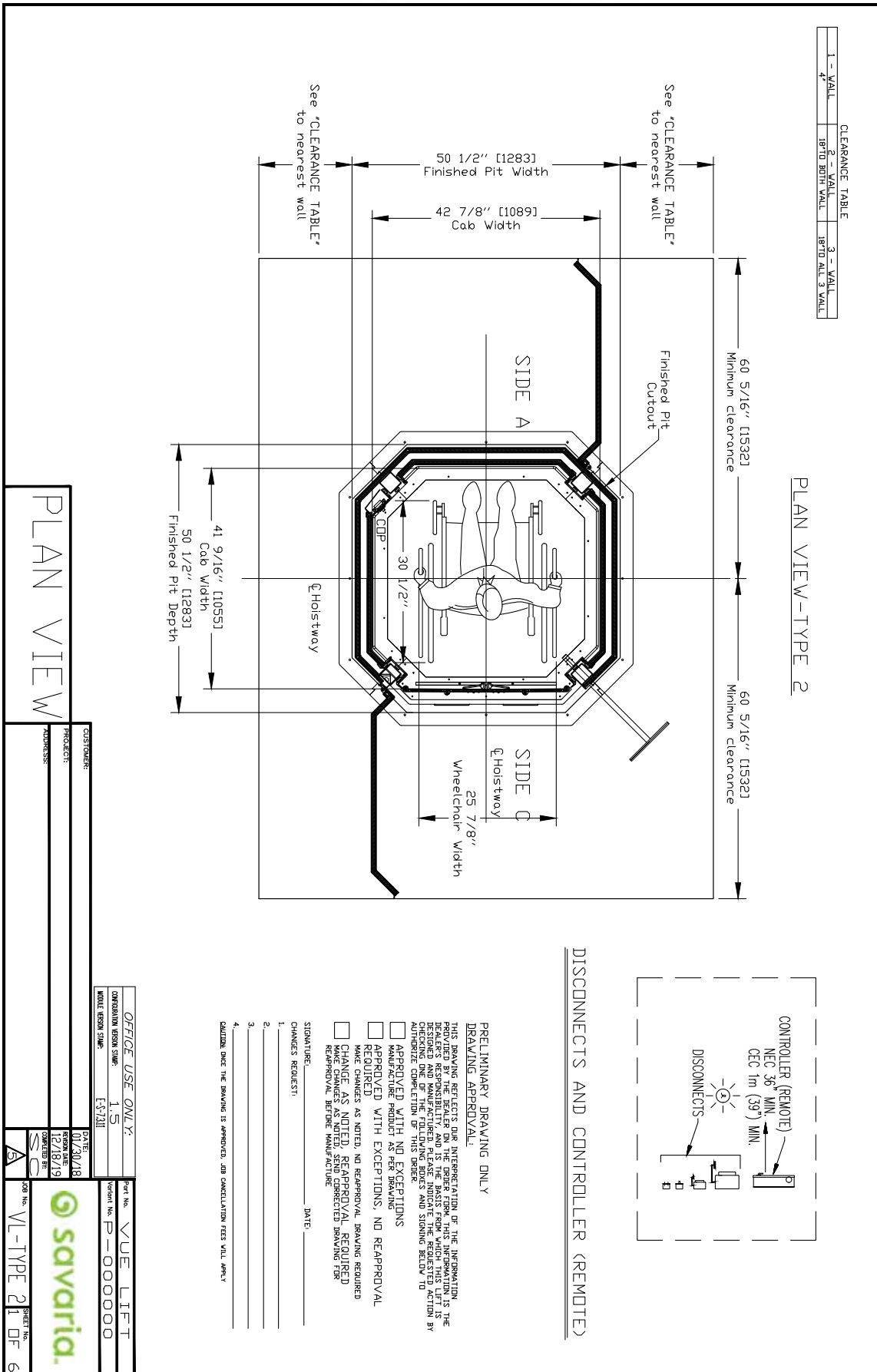


Figure 31: Plan view - octagonal glass (OGM) type 2



PLAN VIEW

<p>CUSTOMER: _____</p> <p>PROJECT: _____</p> <p>ADDRESS: _____</p>	<p>DATE: 01/20/18</p> <p>CONTRACT NO.: 12/18/19</p> <p>CONTRACTOR: _____</p>
<p>OFFICE USE ONLY:</p> <p>OPERATION DESIGN SHEET: 1.5</p> <p>MODEL DESIGN SHEET: [3/21]</p>	
<p>Part No. VUE LIFT</p> <p>Variant No. P-0000000</p>	
<p>JOB NO. VI-TYPE 2 SHEET NO. 1 OF 6</p>	

Figure 34: Balcony plate and handrail information octagonal glass (OGM) type 2



The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft should be between 2" (51 mm) and 3" (76 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

NOTE: Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 35: Elevation view octagonal glass (OGM) type 2

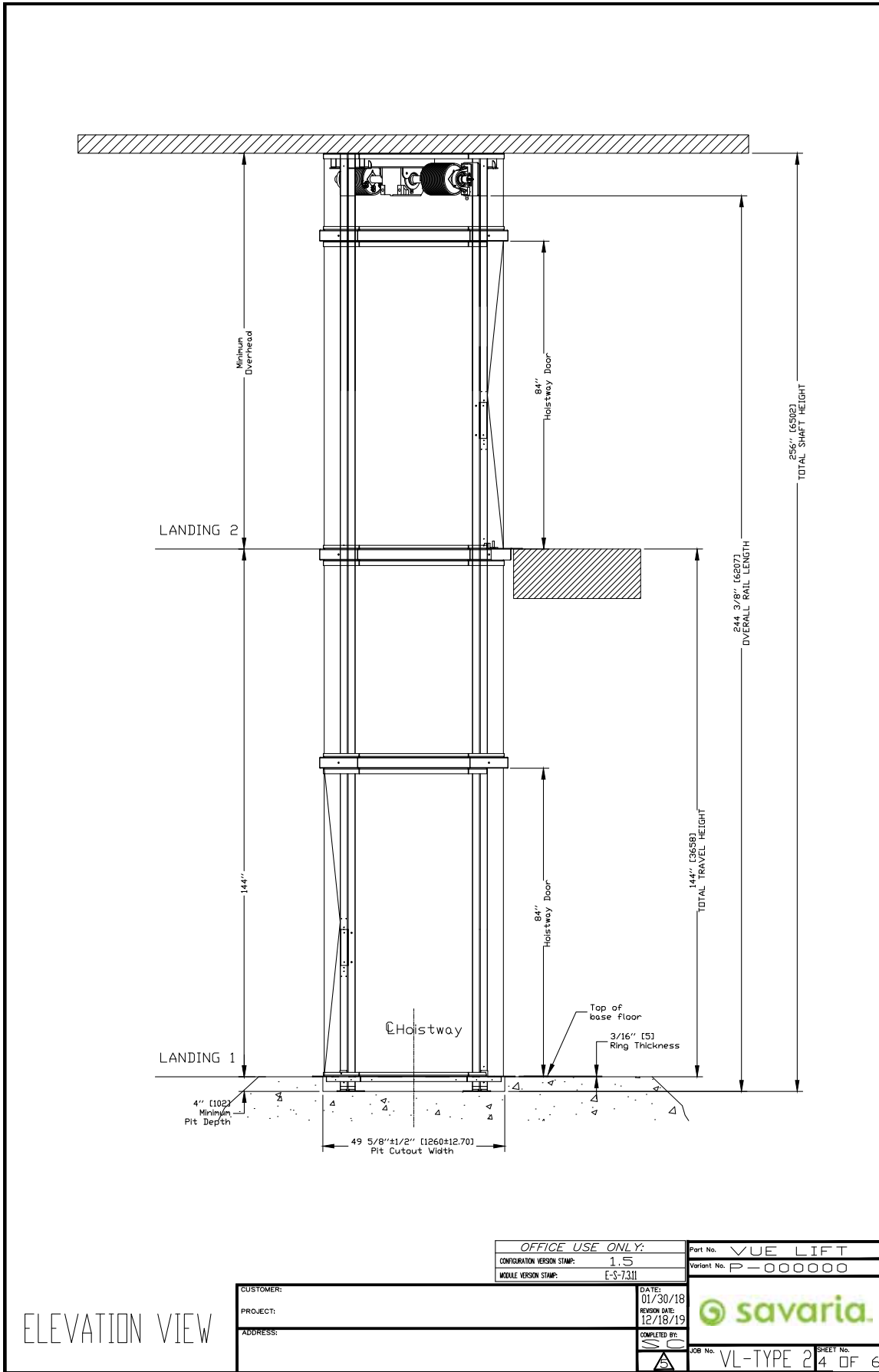
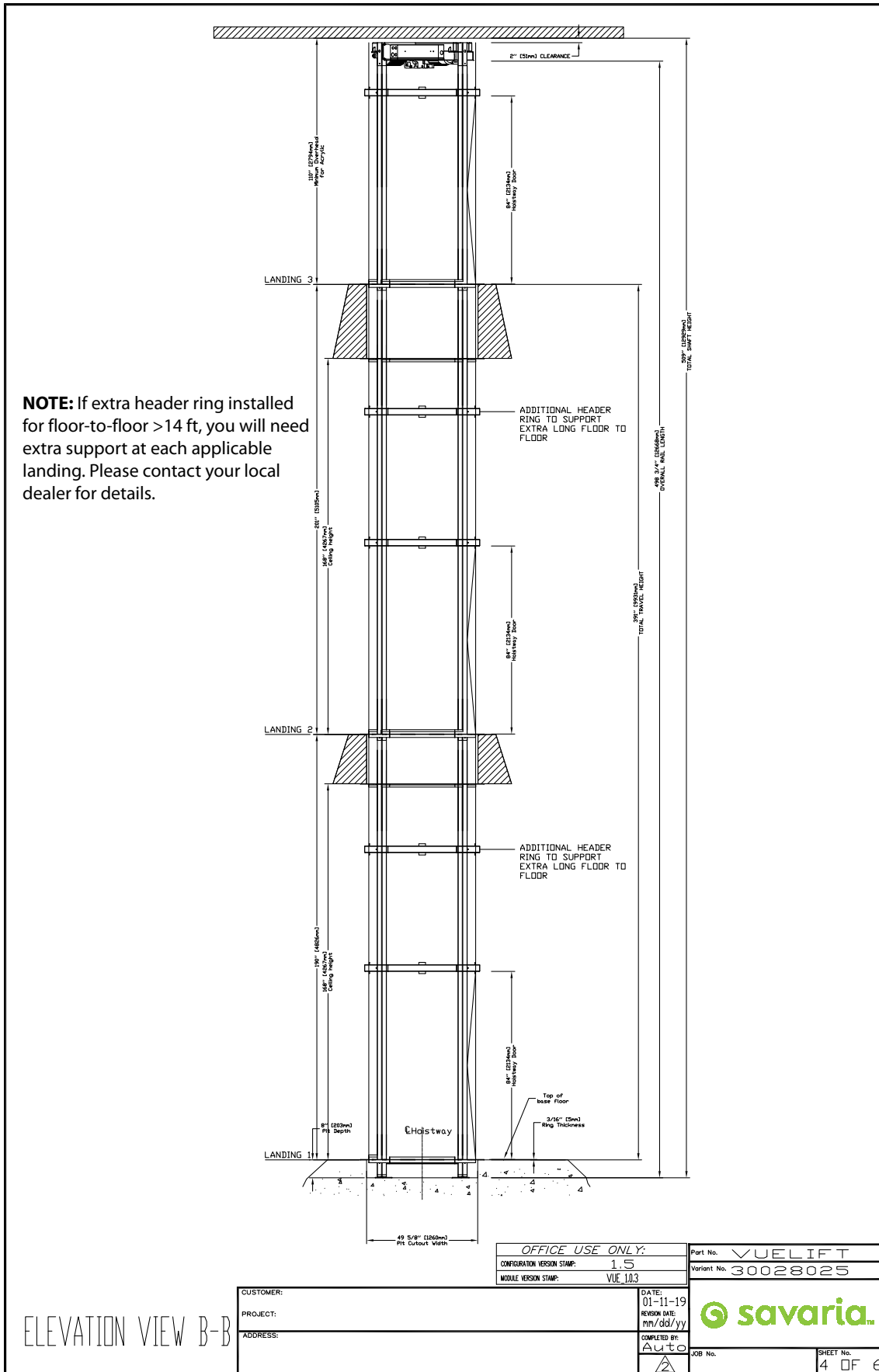


Figure 36: Elevation view octagonal glass (OGM) type 2 - extra header rings if floor-to-floor height > 14 ft



ELEVATION VIEW B-B

OFFICE USE ONLY:
 CONFIGURATION VERSION STAMP: 1.5
 MODEL VERSION STAMP: VUE 1.0.3

Part No. VUELIFT
 Variant No. 30028025

CUSTOMER:
 PROJECT:
 ADDRESS:

DATE: 01-11-19
 REVISION DATE: mm/dd/yy
 COMPLETED BY: Auto

savaria
 JOB No.
 SHEET No. 4 OF 6

Figure 38: Pit cutout/thru-floor cutout octagonal glass (OGM) type 2

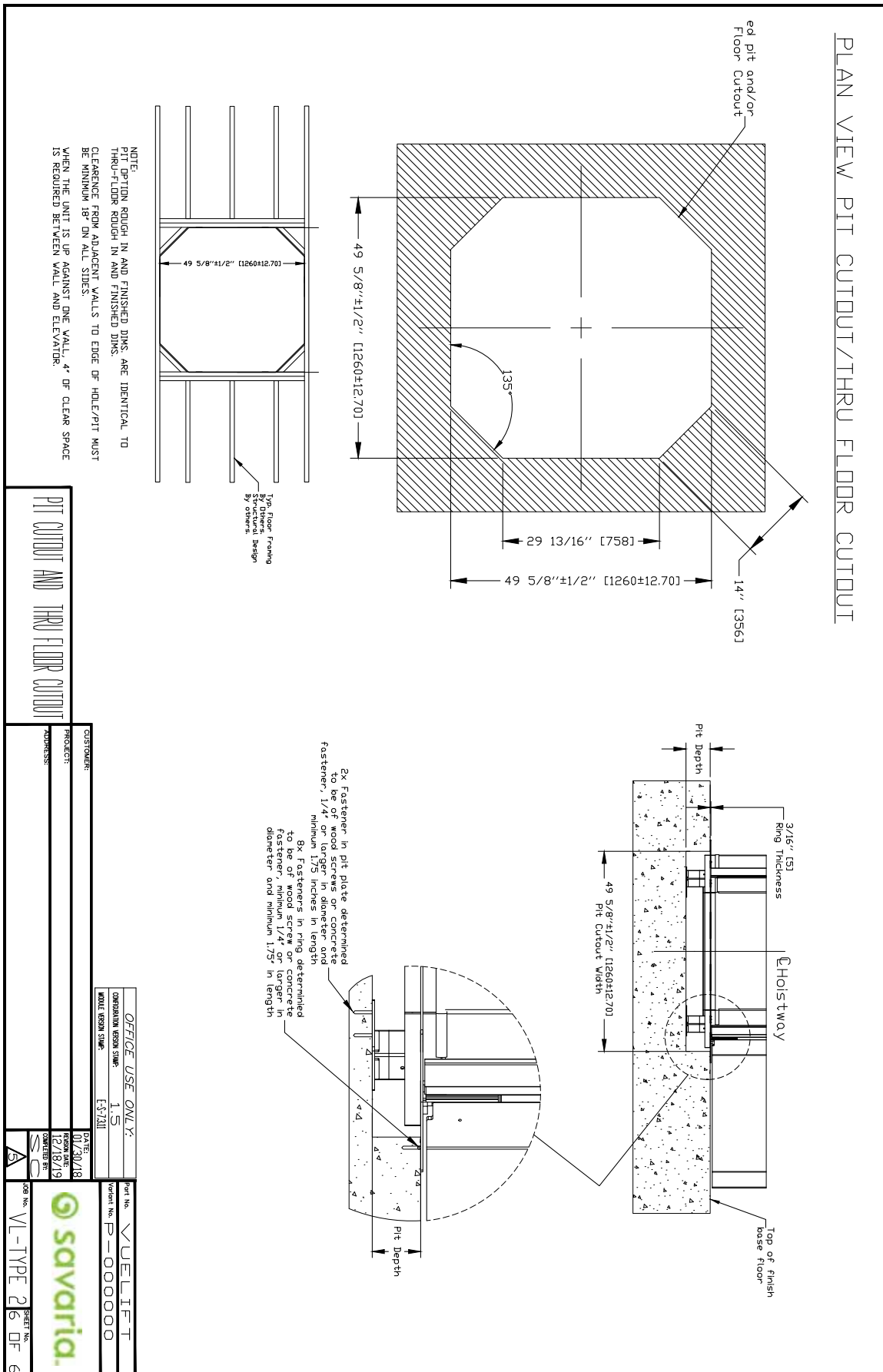
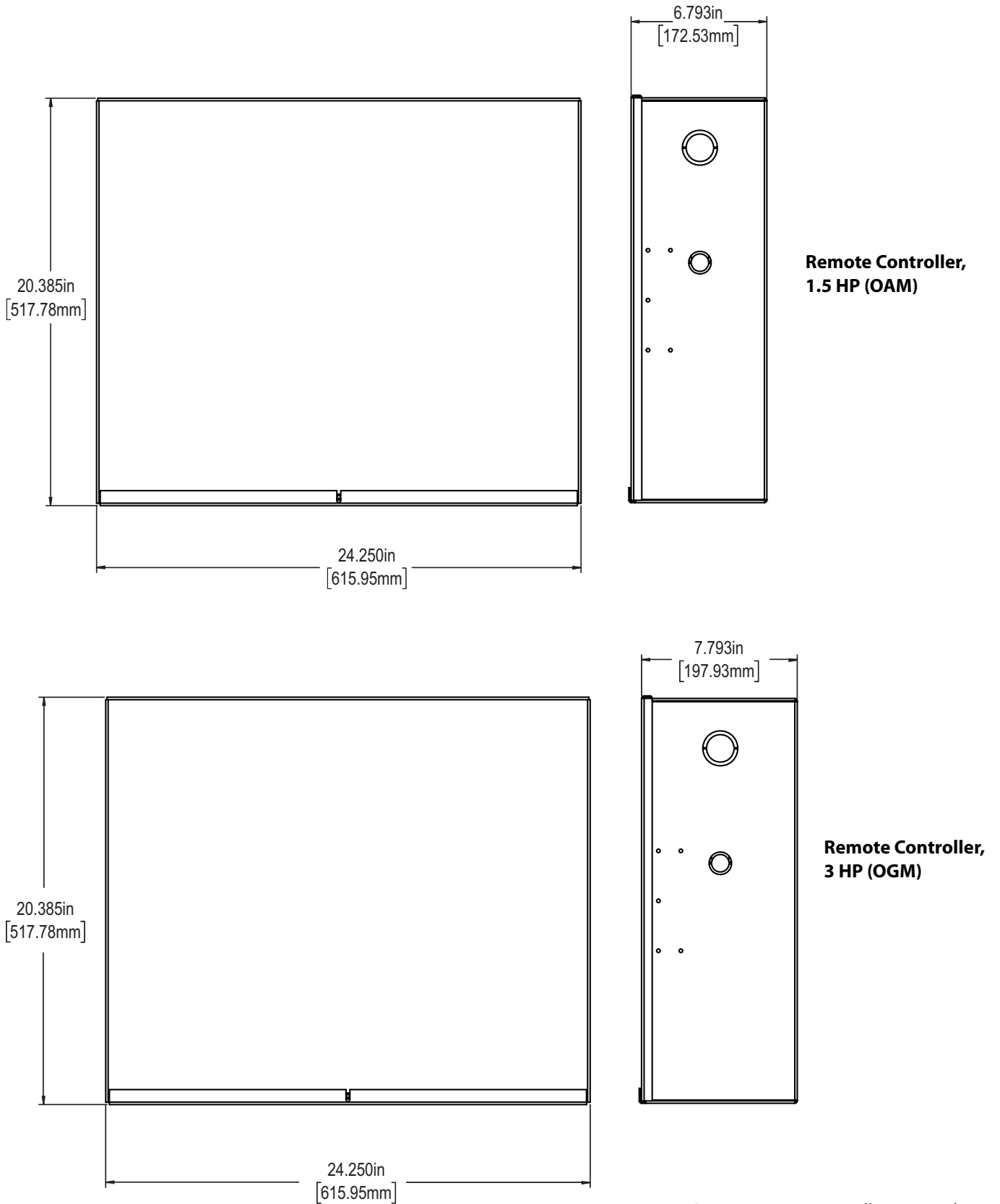


Figure 40: Controller box dimensions - octagonal acrylic & octagonal glass (OAM & OGM)



NOTE: A remote controller cannot be more than 50 ft (15.24 m) from the top of the unit for the cable to reach.

Chapter 3: Round+ Glass (RGL) & Octagonal+ Glass (OGL)



Specifications - Round+ Glass & Octagonal+ Glass (RGL & OGL)

Specification	Specification Data
Load capacity	950 lb (432 kg)
Maximum travel	55 ft (16.76 m)
Travel speed	40 ft/min (0.20 m/s)
Noise level (for typical installation)	65 dB
Daily cycle	Normal: 40 Heavy: 80 Excessive: 150 Maximum starts in 1 hour on standard installation: 20 NOTE: Please consult your Sales Representative if there a chance you may exceed these amounts.
Maximum levels serviced	6
Minimum overhead	108" (2.74 m)
Cab	Cab interior height RGL: 84 in (2.13 m) Cab interior height OGL: 84 in (2.13 m) Cab floor area RGL: 15.00 sq ft (1.4 sq m) Cab floor area OGL: 14.00 sq ft (1.31 m) Cab weight RGL: 850 lb (386 kg) Cab weight OGL: 1200 lb (544 kg)
Floor by others (in cab)	3/4" (19 mm) maximum
Footprint	Round+ glass: 57.56" (1.46 m) diameter Octagonal+ glass: 62" x 62" (1.6 m x 1.6 m)
Power supply	30A, 230V, single-phase, 50/60 Hz
Cab lighting	15A, 115V, single-phase, 50/60 Hz
Suspension	Type: Galvanized aircraft cable (2 x 3/8" diameter) Construction: IWRC 7 x 19 RHRL Nominal strength: 14,400 lb (6,545 kg) Weight of ropes: 0.243 lb/ft (3.616 g/cm) Travel cable weight: 0.228 lb/ft (3.393 g/cm)
Drive train	Type: Winding drum Motor: 3.0 HP with integrated brake Transmission: Ultra-low vibration, 3-stage, right-angle, helical-bevel drive Motor control: Preprogrammed variable frequency drive Door interlocks: Xtronics
Pit/floor load	Refer to the section "Load Calculations"
Distance between 2 landings	93" (2362 mm) minimum
Pit depth	4" - 12" (102 mm - 305 mm)
Temperature operating range (environment)	- 10°C to + 40°C / 14°F to 104°F NOTE: For optimal running conditions, each landing of the unit should be in a climate-controlled environment.

Specification	Specification Data
Safety features	Pit run/stop switch and car top run/stop switch Emergency stop switch Safety brakes Electrical circuit overspeed Manual lowering Emergency battery back-up for cab lighting and lowering
Options	Optional configurations: Type 1, 2, 3 Optional colors: <ul style="list-style-type: none"> • White (Texture White PX521W859) • Silver (Texture Silver PX521S343) • Custom powder-coat frame Note that Black is the standard color (Texture Black PX622N365) Other options: Up to 6 stops, balcony attachment Savaria Link remote monitoring (Vuelift Micro-6 only)

Safety First - Round+ Glass & Octagonal+ Glass (RGL & OGL)

3/4 & 4 Rule (Code 2016 and After)

The ASME A17.1-2016/CSA B44-16 Safety Code for Elevators and Escalators **(2016 AND AFTER)** mandates the following maximum hoistway door clearances (see drawing on next page):

- Clearance between the hoistway door and the hoistway edge of the landing sill shall not exceed 0.75" (19 mm).
- Distance between the hoistway face of the landing door and the car door shall not exceed 4" (102 mm).
- Vuelift Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

Electrical Requirements - Round+ Glass & Octagonal+ Glass (RGL & OGL)

Your electrician and phone installer must supply the following connections:

- Main Disconnect - One 230V single-phase, 30 Amp fused disconnect box with 20 Amp fuse/breaker. If voltage is not 230V minimum, a buck-boost transformer is required.
- Lighting Disconnect - One 120V, 15 Amp fused disconnect or circuit breaker for cab lighting.
- Telephone Line - One telephone line jack in close proximity to the controller.
- Electrical Outlet - One 15A GFCI outlet shall be installed near the pit or base ring.

NOTE: Savaria does not provide power cable to main disconnect.

Recommended Manufacturers for Fused Disconnect

Square D

- Main disconnect: 230V single-phase disconnect model # H221N.
240V, 30 Amp with Interlock Kit - ELK031 Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

Siemens

- Main disconnect: 230V single-phase disconnect model #HF221N.
240V, 30 Amp with Interlock Kit-HA 161234 Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

G.E.

- Main disconnect: 230V single-phase disconnect model # TH3221.
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect - 120V, 15 Amp fused disconnect or circuit breaker.

Cutler Hammer

- Main disconnect: 230V single-phase disconnect model # DH221NGK.
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).
In addition, two each - 250V, 20 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel itself): Square D or Siemens only.

Provisions By Others - Round+ Glass & Octagonal+ Glass (RGL & OGL)

General Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

Dimensions

The contractor/customer must verify all clearance dimensions prior to delivery of the unit.

Structural Floor Loads

A structural engineer is required to ensure that the building will safely support all loads imposed by the lift equipment. Refer to the tables on the installation drawings (shop drawings) for pit/floor loads imposed by the equipment. Refer to the section, Load Calculations.

Electrical Power Supply

See the following table. Lockable fused disconnects must be installed in compliance with electrical code and are to be provided prior to installation of the unit. Roughed in power to the lift must be provided to the head assembly location prior to installation of the unit.

Power Supply Specifications	Disconnect Size	Time Delay Fuse Size	Volts	Phase
Motor and equipment	30 Amps	30 Amps	230 Volts	Single
Cab lights	15 Amps	15 Amps	115 Volts	Single
Pit light	15 Amps	15 Amps	115 Volts	Single

Telephone

If a telephone circuit is required, the jack is to be provided and installed by others. This circuit shall be brought to a location next to the controller and be available to connect and test upon elevator installation.

Electrical Outlet

One 15-Amp GFCI outlet shall be installed near the pit or base ring.

Permanent Power

Before installation can begin, permanent power must be supplied.

Entrances Handrails

All balcony levels require handrails to be installed per local codes after installation is completed. The handrail and installation is to be provided by the contractor/customer. Savaria Concord Lifts Inc. and/or local installer are not responsible for handrail installation or materials.

Savaria Link Option (Vuelift Micro-6 Only)

If you have the Savaria Link Ethernet remote monitoring option, ensure that you have an Ethernet connection with Internet capability in the vicinity of the unit's controller.

If you have the Savaria Link Wireless remote monitoring option, ensure that you have a wireless signal with Internet capability in the vicinity of the unit's controller.

Site Preparation - Round+ Glass & Octagonal+ Glass (RGL & OGL)

The following items MUST be completed prior to installation of the elevator.

Finished Floors

- Finished floors be installed at all landing levels.

230V Power (with Switched Disconnect)

- Permanent 230V, single-phase, 30-Ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted in a location within line of sight of the elevator or controller.
- 230V source must be run from the disconnect switch to a junction box in a discrete location at the top of the elevator hoistway location.
- Disconnect must be installed according to all applicable local codes.

110V Power (with Switched Disconnect) - 2 are required

- Permanent 110V, single-phase, 15-Ampere dedicated power to a lockable, fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted near the 230V disconnect switch.

Telephone Works

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your local installer or building contractor for code requirements.

Electrical Outlet

- One 15-Amp GFCI outlet shall be installed near the pit or base ring.

Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting Savaria.

Floor and Pit Cutouts Complete

- If a pit is to be used, a smooth, level surface of at least 4" must be provided. For pit depths greater than 12", contact Savaria to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed.
- Hole in floor, or modified balcony rail as directed by drawings.

Check Floor to Floor Maximum and Minimum Distances

- 106" (2692 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration.
- 96" (2438 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for modified short cab configuration.
- 108" (2743 mm) minimum overhead distance from upper floor level to the underside of the finished ceiling for silica glass model.

Drywall and Painting

- All drywall and painting must be complete.

Load Calculations - Round+ Glass (RGL)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Each middle floor carries a separate Mid Floor Load supporting only that floor's metal floor rings, while the main cab/hoistway load (Lower Floor Total Load) is transferred fully to the bottom floor.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, the figures below DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

$$\text{Lower Floor Dead Load (lbf)} = (107.1 \times \text{feet of hoistway}) + (276 \times \text{number of floors}) + 3020$$

$$\text{Lower Floor Impact Load (lbf)} = 7845$$

$$\text{Lower Floor Total Load (lbf)} = \text{Dead Load} + \text{Impact Load}$$

$$\text{Mid Floor Load (lbf)} = 318$$

$$\text{Shipping Weight (lb)} = (1226 \times \text{number of floors}) + 2040$$

Note: Shipping weight includes all actual part weights for lower and mid floor loads using 12' per floor, plus shipping packaging weight.

Example

2 stop with 19' hoistway min

Lower Floor Dead Load	5,605
Lower Floor Impact Load	<u>7,845</u>
Lower Floor Total Load	13,450

Total Load is distributed as follows:

- At any point in time, two opposing columns may have up to 12,000 lbf (6000 lbf/column)
- However, the max load carried by all four column combined will not exceed 16,759 lbf before addition of factor of safety required by local building code.

Mid Floor Loads (on each mid floor)	318
Shipping Weight	4,492

Load Calculations - Octagonal+ Glass (OGL)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Each middle floor carries a separate Mid Floor Load supporting only that floor's metal floor rings, while the main cab/hoistway load (Lower Floor Total Load) is transferred fully to the bottom floor.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, the figures below DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

Lower Floor Dead Load (lbf) = (107.1 x feet of hoistway) + (276 x number of floors) + 3020

Lower Floor Impact Load (lbf) = 7845

Lower Floor Total Load (lbf) = Dead Load + Impact Load

Mid Floor Load (lbf) = 318

Shipping Weight (lb) = (1226 x number of floors) + 2040

Note: Shipping weight includes all actual part weights for lower and mid floor loads using 12' per floor, plus shipping packaging weight.

Example

2 stop with 19' hoistway min

Lower Floor Dead Load	5,605
Lower Floor Impact Load	<u>7,845</u>
Lower Floor Total Load	13,450

Total Load is distributed as follows:

- At any point in time, two opposing columns may have up to 12,000 lbf (6000 lbf/column)
- However, the max load carried by all four column combined will not exceed 16,759 lbf before addition of factor of safety required by local building code.

Mid Floor Loads (on each mid floor) 318

Shipping Weight 4,492

Drawings - Round+ Glass & Octagonal+ Glass (RGL & OGL)

Round+ Glass (RGL)

- Plan view
- Pit/bottom floor/thru-floor view
- Balcony details
- Balcony plate and handrail information
- Thru-floor details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Provisions by others
- Pit cutout/thru-floor cutout
- Machine room layout and wire routing

Octagonal+ Glass (OGL), Type 1

- Plan view
- Pit/bottom floor/thru-floor view
- Balcony details
- Balcony plate and handrail information
- Thru-floor details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Provisions by others
- Pit cutout/thru-floor cutout
- Machine room layout and wire routing

Controller box dimensions

Model Specifications – Round+

Round+ (Glass)

- Capacity: 432kg (950 lb)
- Cab Size: 1.4 sqm (15 sq. ft.)
- Clear Cab Size: 1397mm (54 in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
 - **Glass:** 1474mm (58 in.)
 - Pit/Thru Floor Cutout: 1502mm (59 ¹/₈ in.)
 - **Balcony/Header Ring:** 1543mm (60 ³/₄ in.)
 - **Pit/Thru Floor Ring:** 1654mm (65 ¹/₈ in.)
- Minimum Overhead Clearance: 2743mm (108 in.)

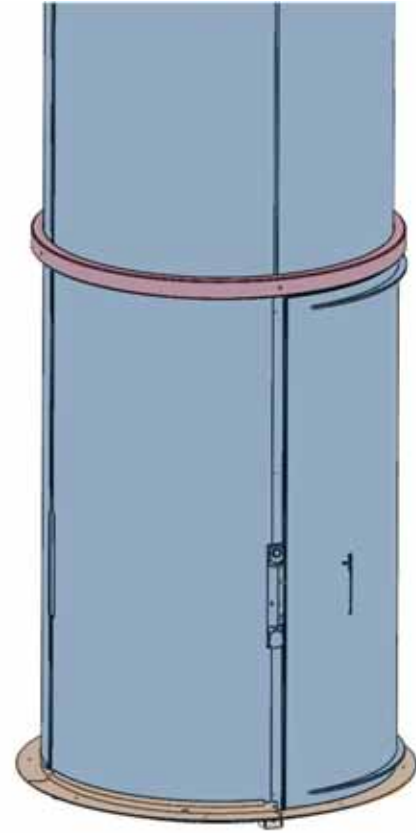


Figure 41: Plan view - round+ glass (RGL)

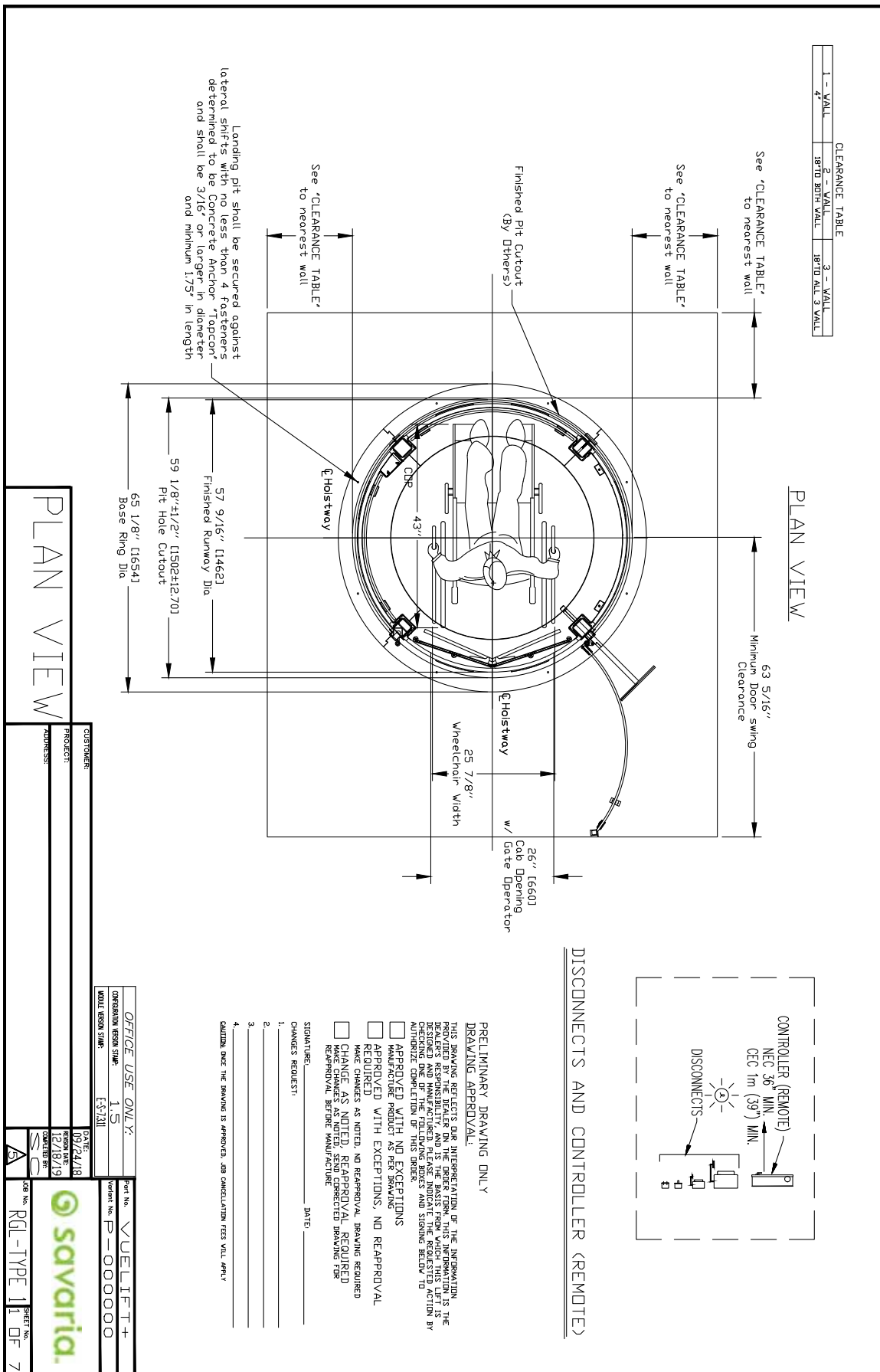
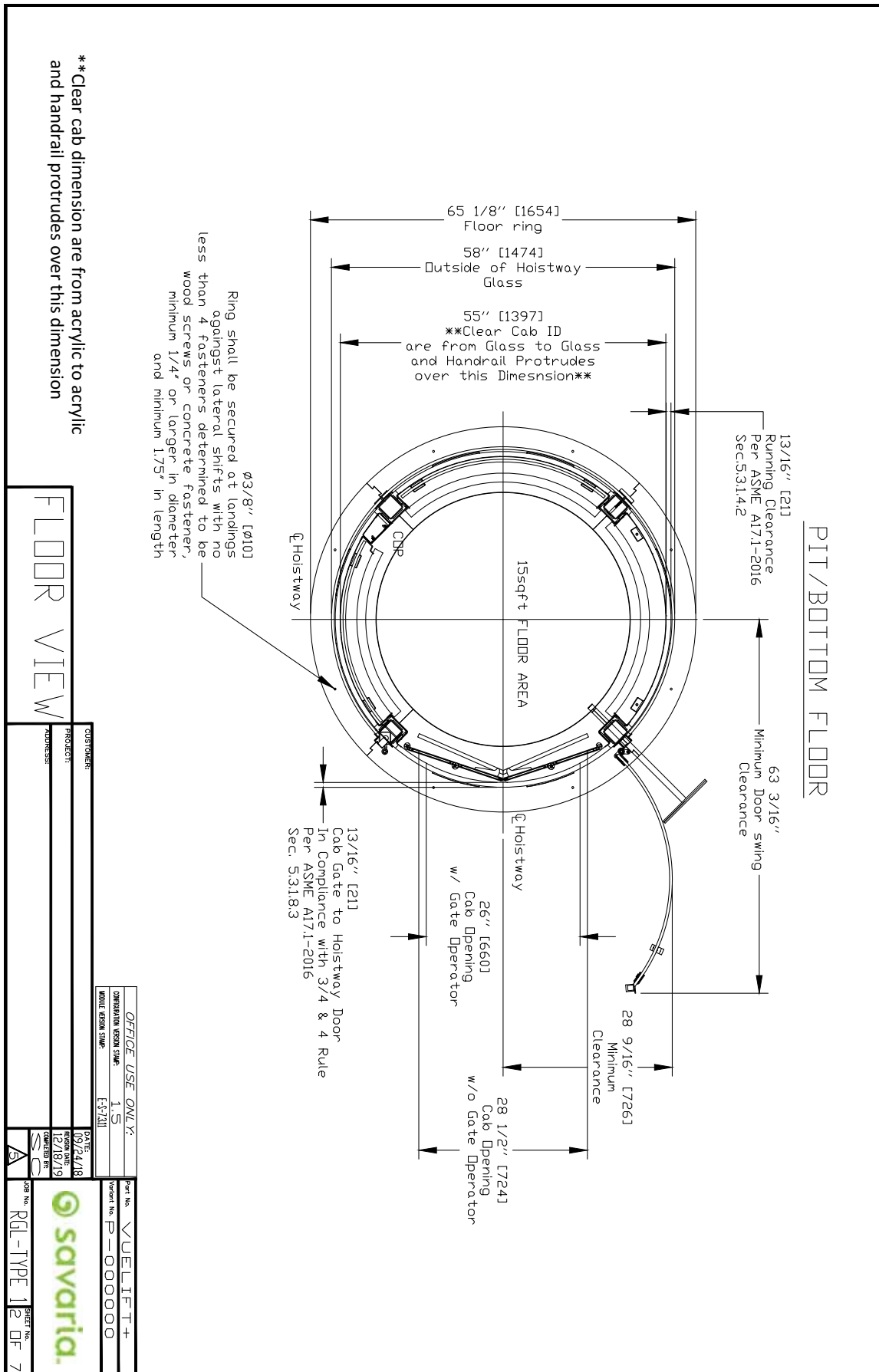


Figure 42: Pit/bottom floor/thru-floor view - round+ glass (RGL)



**Clear cab dimension are from acrylic to acrylic and handrail protrudes over this dimension

Figure 43: Balcony detail - round+ glass (RGL)

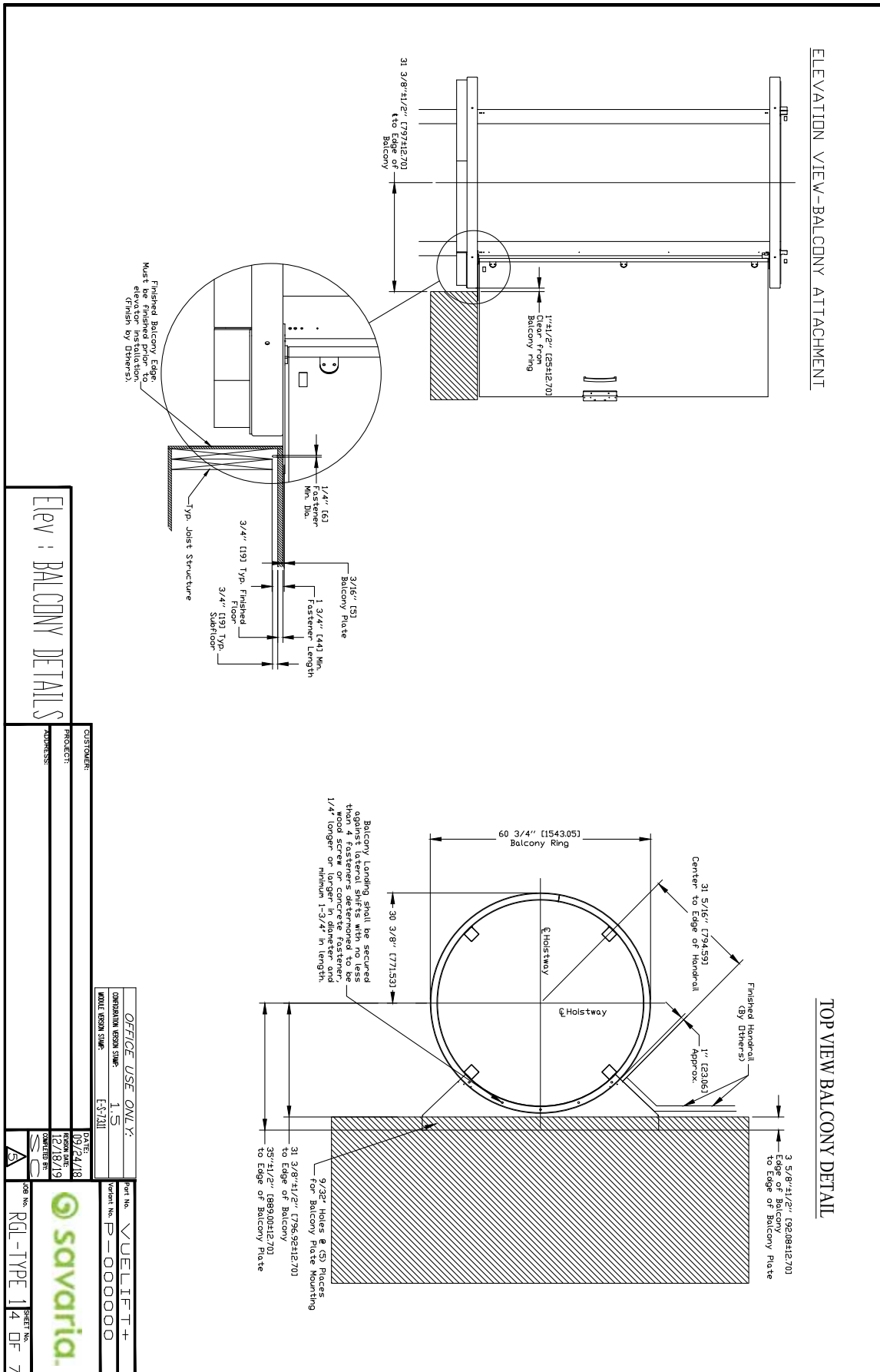


Figure 44: Balcony plate and handrail information - round+ glass (RGL)

The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft should be between 2" (51 mm) and 3" (76 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

NOTE: Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 46: Elevation view - round+ glass (RGL)

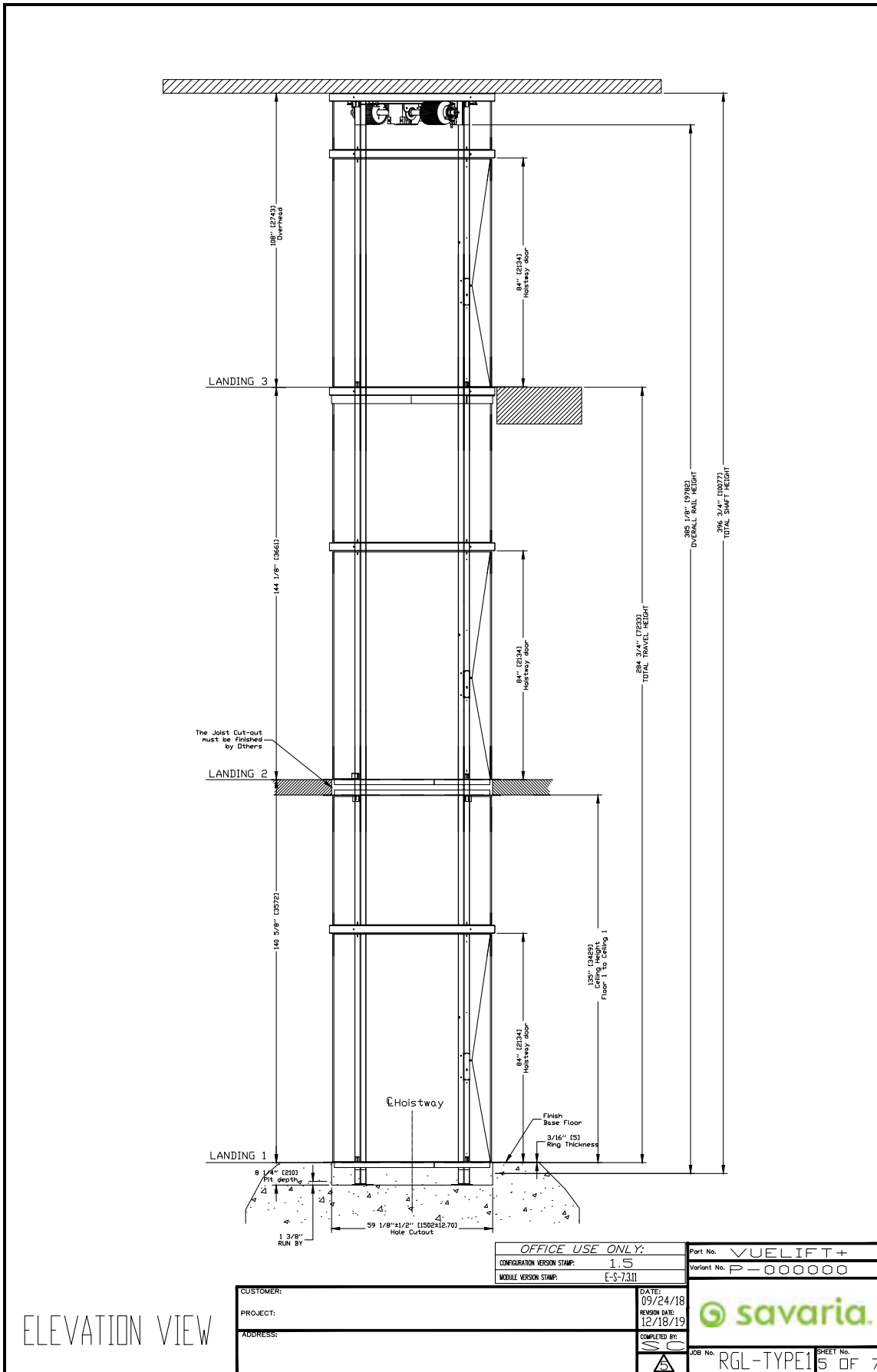


Figure 47: Elevation view - round+ glass (RGL) - extra header rings if floor-to-floor height > 14 ft

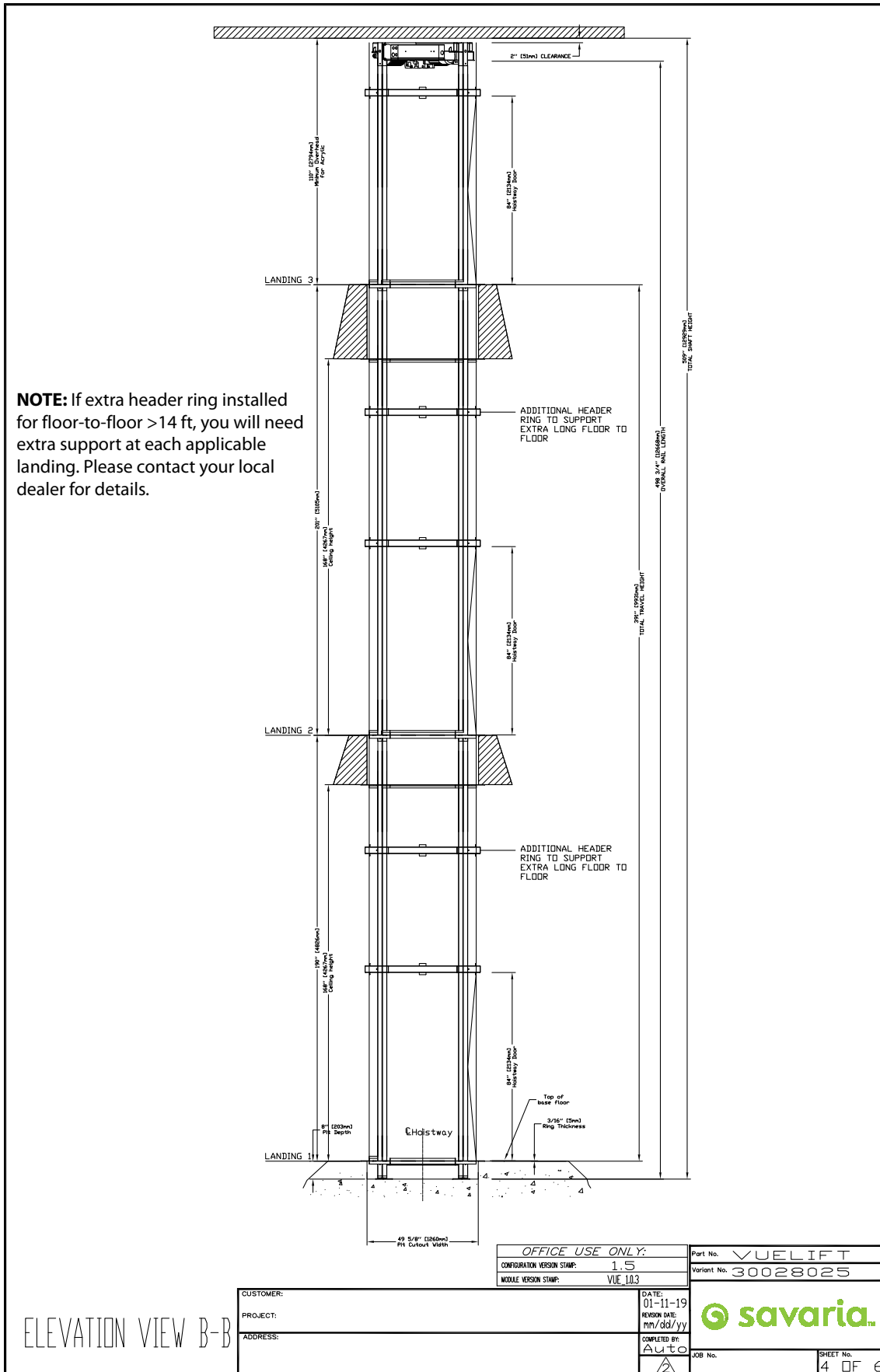


Figure 49: Pit cutout/thru-floor cutout - round+ glass (RGL)

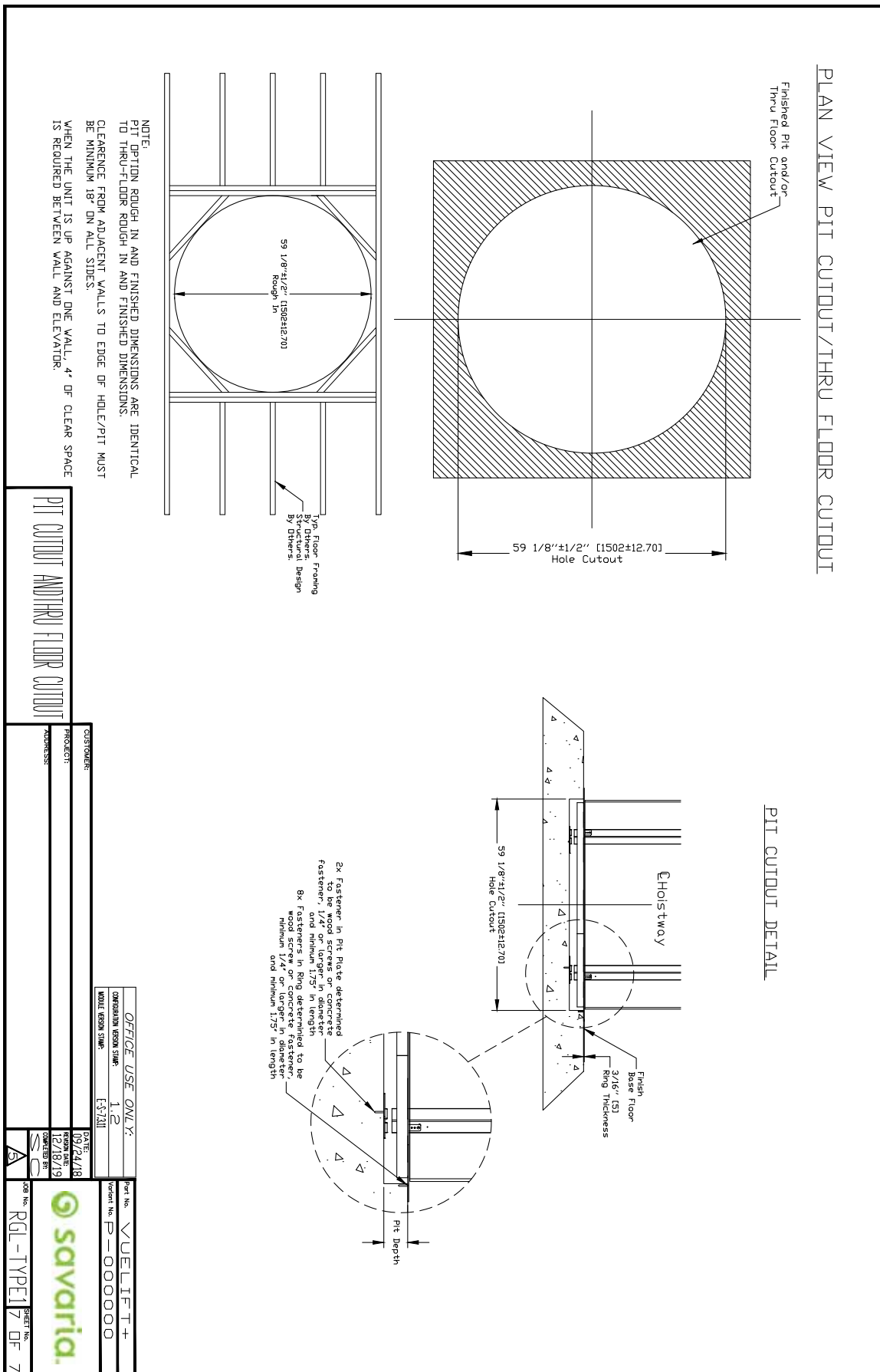
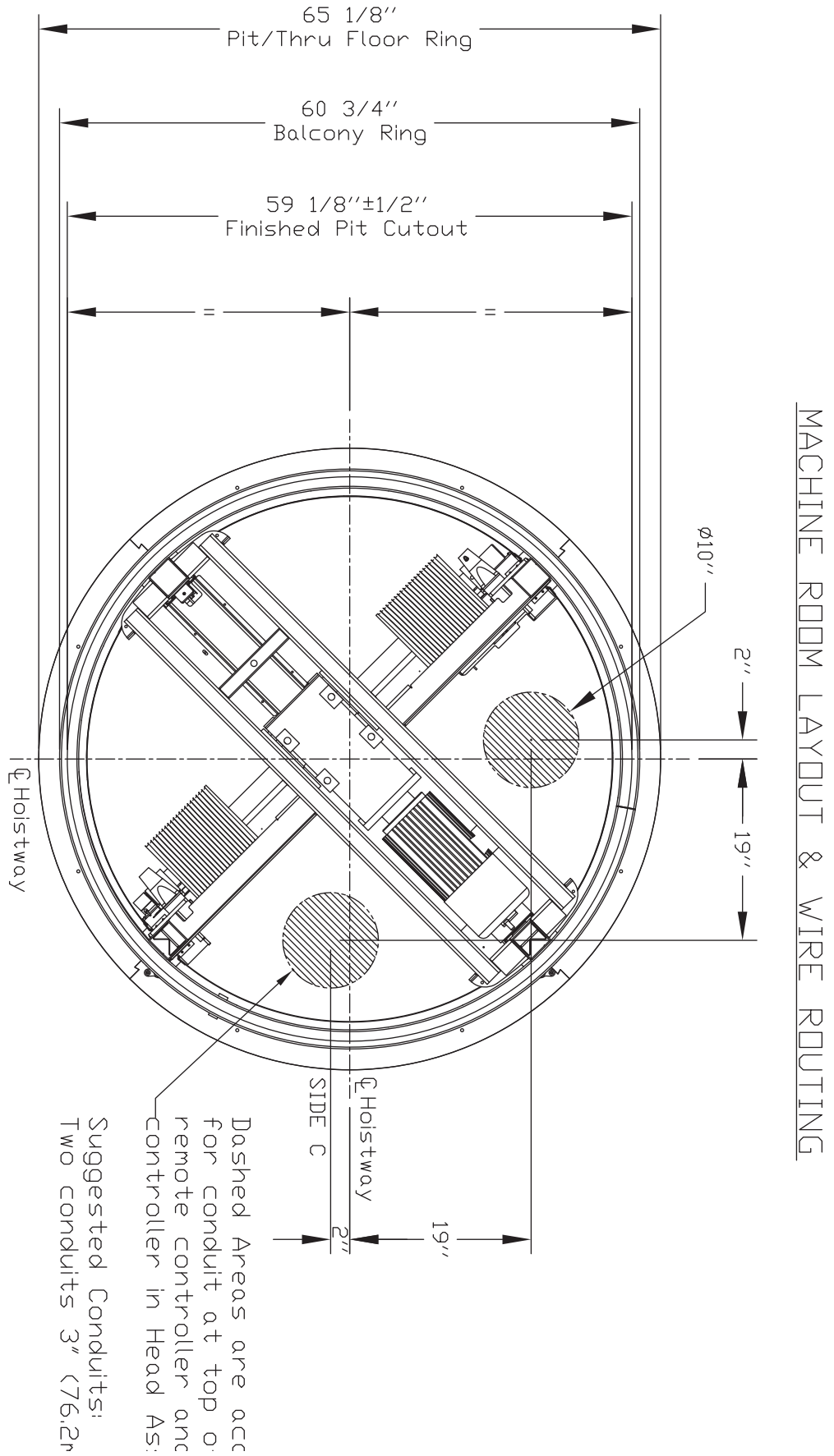


Figure 50: Machine room layout and wire routing - round+ glass (RGL)



Model Specifications – Octagonal+

Octagonal+ (Glass)

- Capacity: 432kg (950 lb)
- Cab Size: 1.31 sqm (14 sq. ft.)
- Clear Cab Size: 1156w x 1253d (45¹/₂ x 49⁵/₁₆ in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
 - **Glass:** 1421 x 1421mm (56 x 56 in.)
 - Pit/Thru Floor Cutout: 1432x 1432mm (56³/₈ x 56³/₈ in.)
 - **Balcony/Header Ring:** 1473 x 1473mm (58 x 58in.)
 - **Pit/Thru Floor Ring:** 1574 x 1574mm (62 x 62 in.)
- Minimum Overhead Clearance: 2743mm (108 in.)

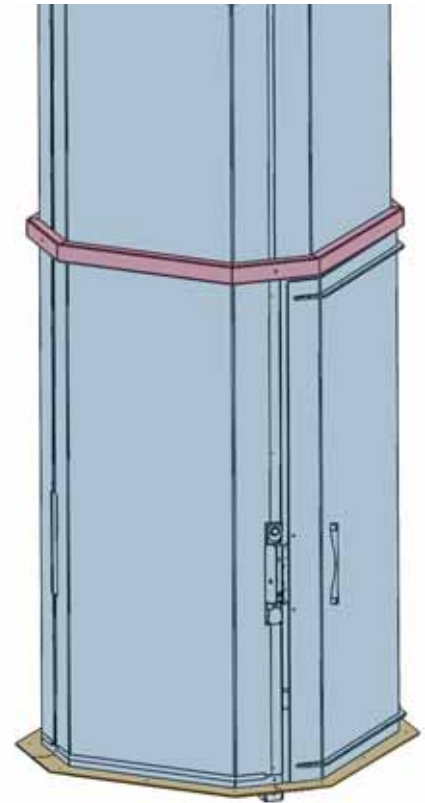
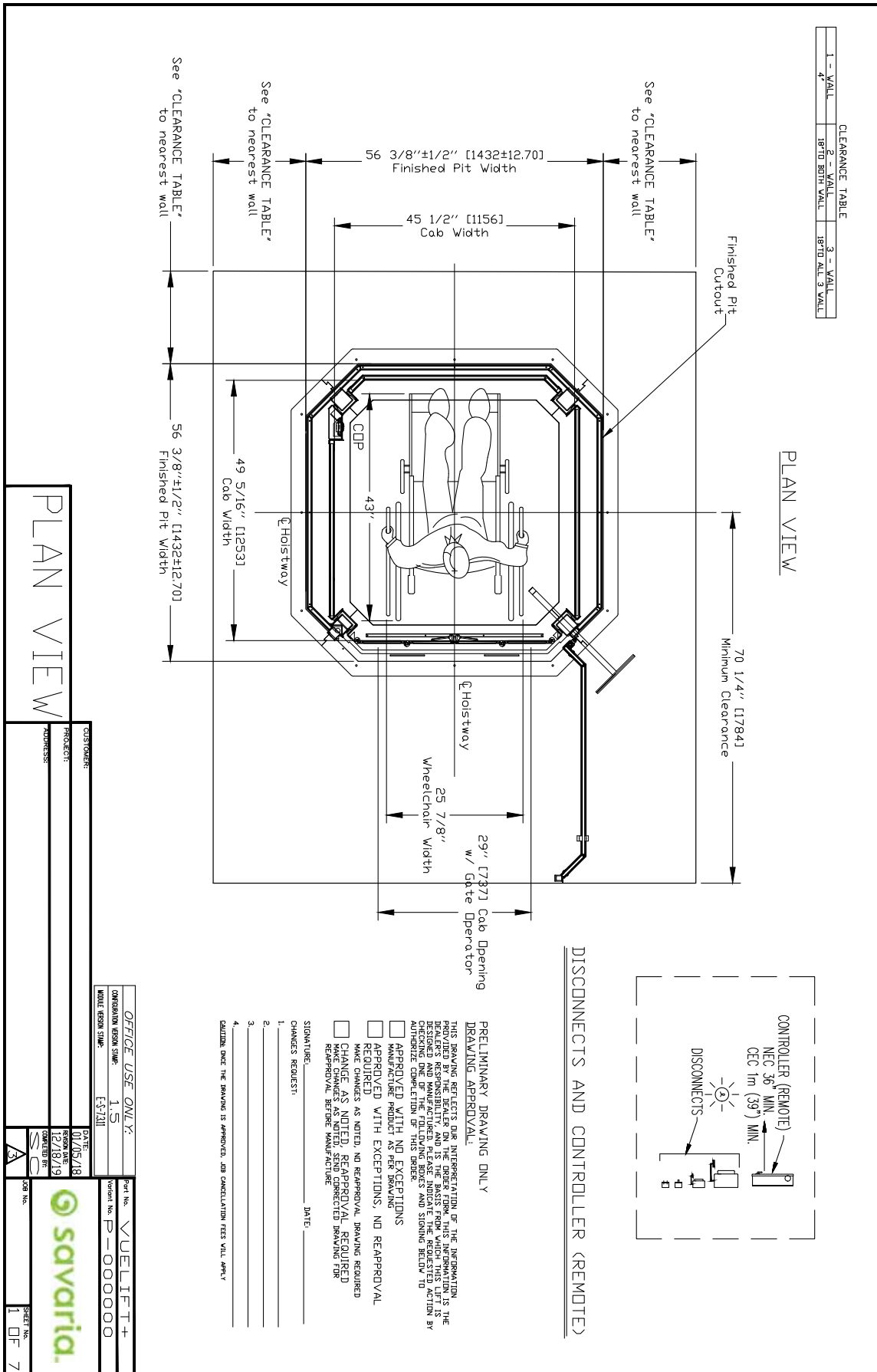


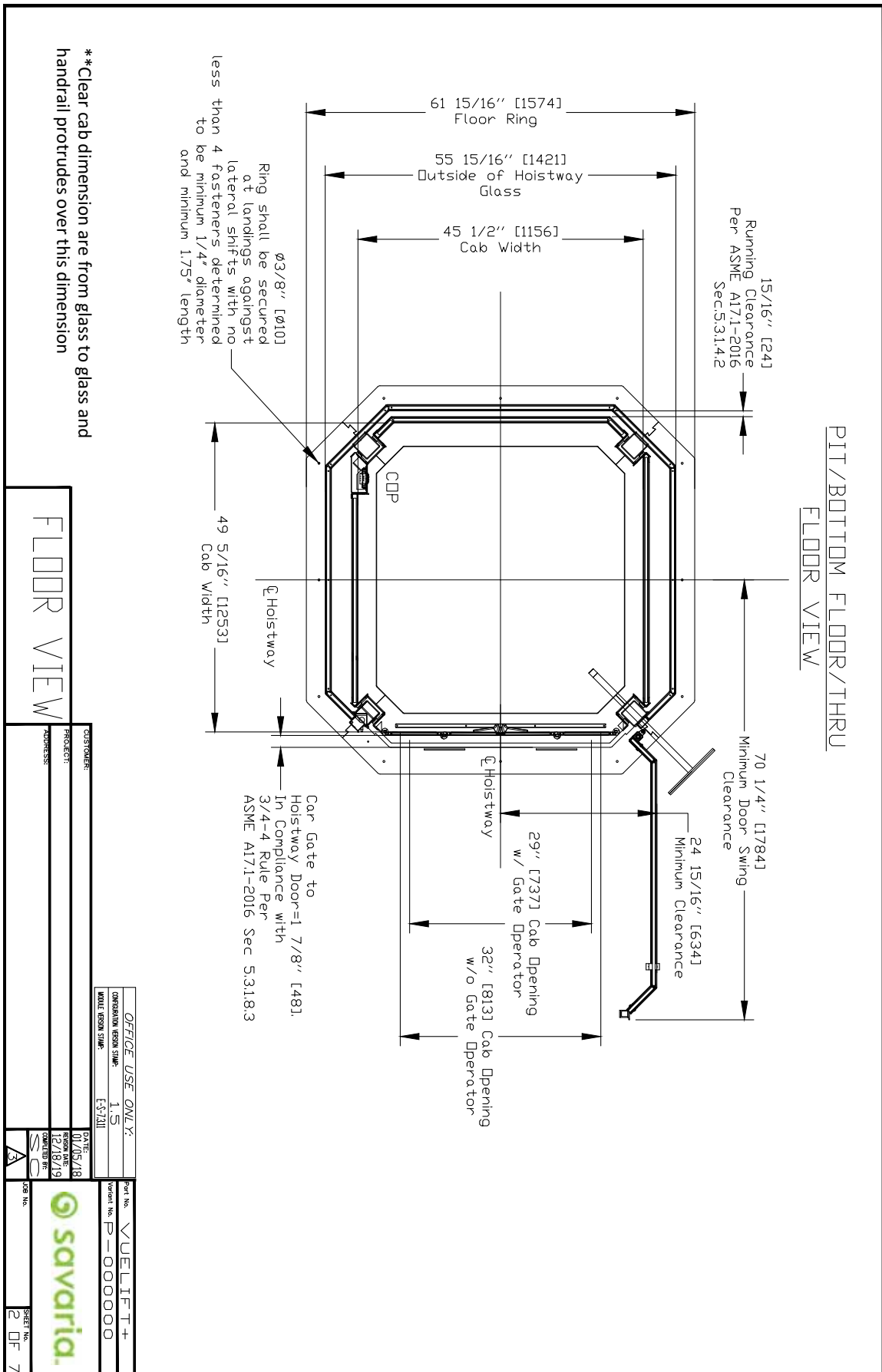
Figure 51: Plan view - octagonal+ glass (OGL) type 1



PLAN VIEW

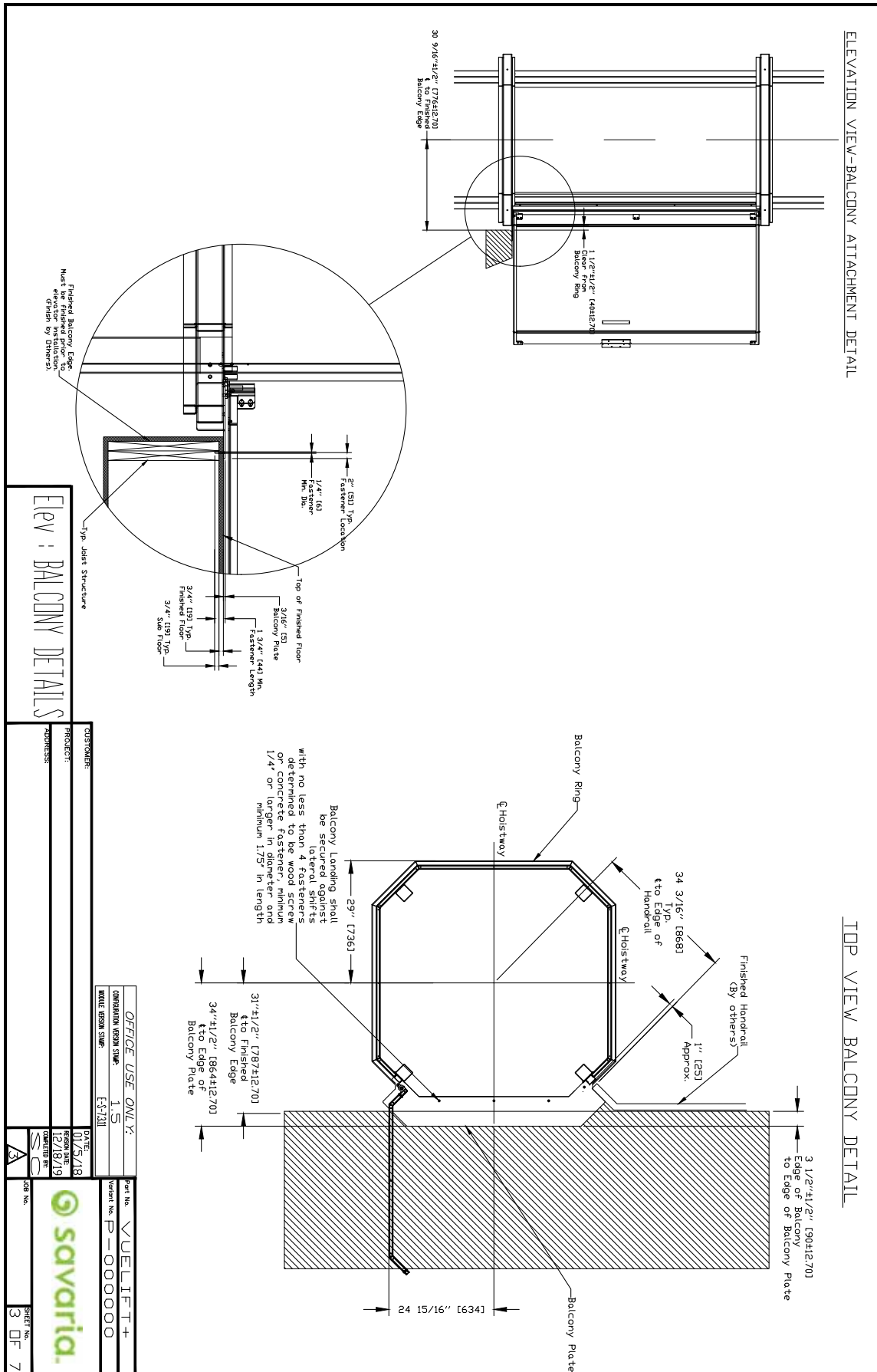
CUSTOMER:		OFFICE USE ONLY:	
PROJECT:	ADDRESS:	ORDINATION VERSION SHIP:	1.5
DATE:	DATE:	MODEL VERSION SHIP:	[5/21]
01/05/18	12/18/19	Part No.:	VUELIFT+
COMPLETED BY:	DATE:	Project No.:	P-0000000
		Sheet No.:	1 OF 7
		Part No.:	

Figure 52: Pit/bottom floor/thru-floor view - octagonal+ glass (OGL) type 1



**Clear cab dimension are from glass to glass and handrail protrudes over this dimension

Figure 53: Balcony detail - octagonal+ glass (OGL) type 1



Elev : BALCONY DETAILS

CUSTOMER: _____
 PROJECT: _____
 ADDRESS: _____

OFFICE USE ONLY:
 OPERATIONAL ROOM SIZE: I.S
 DATE: 01/5/18
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

Part No. VUELIFT+
 Variant No. P-000000
 savaria.
 SHEET No. 3 OF 7

Figure 54: Balcony plate and handrail information - octagonal+ glass (OGL) type 1



The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft should be between 2" (51 mm) and 3" (76 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

NOTE: Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 57: Elevation view - octagonal+ glass (OGL) type 1 - extra header rings if floor-to-floor height > 14 ft

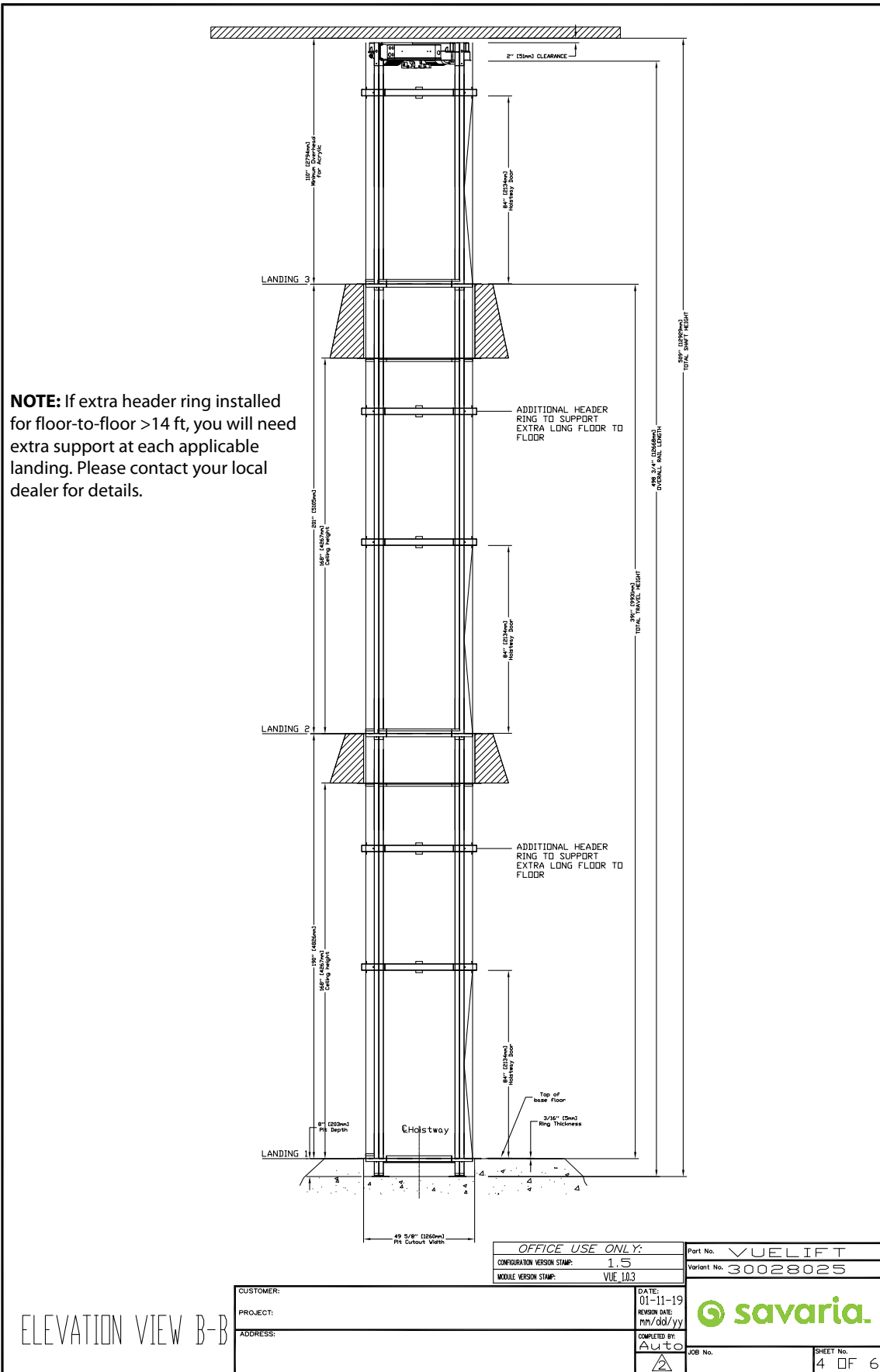


Figure 58: Datasheet - octagonal+ glass (OGL) type 1

PROVISIONS BY OTHERS

GENERAL
 CONSTRUCTION SITE OWNER/AGENT TO PROVIDE ALL MASONRY, CARPENTRY AND
 BRICKLAYER WORK AS REQUIRED. FLOORS SHALL BE IN FINISHED STATE PRIOR TO
 THE INSTALLATION OF SHIT.
 DIMENSIONS: CONFORM TO CUSTOMER TO VERIFY ALL
 DIMENSIONS CONFORM TO UNIT DELIVERY.

STRUCTURAL
 FLOOR LOADS: STRUCTURAL ENGINEER TO ASSURE THAT BUILDING WILL SAFELY
 SUPPORT ALL LOADS IMPOSED BY THE LIFT EQUIPMENT REFER TO TABLES ON THIS
 DRAWING FOR PIT/FLOOR LOADS IMPOSED BY THE EQUIPMENT.
 NOTE PER ASME A171-2016
 THE HOISTWAY DOORS OR GATES AND THE HOISTWAY EDGE
 OF THE LANDING SHALL NOT EXCEED 3IN. THE DISTANCE BETWEEN THE HOISTWAY
 FACE OF THE LANDING DOOR OR GATE AND THE CAR DOOR OR GATE SHALL NOT EXCEED
 3IN.

ELECTRICAL
 POWER SUPPLY: SEE SPECIFICATIONS BELOW. LOCKABLE FUSED DISCONNECTS
 SHALL BE PROVIDED FOR EACH ELECTRICAL CIRCUIT TO BE PROVIDED PRIOR TO
 INSTALLATION. QUALIFIED ELECTRICAL CONTRACTOR MUST BE PROVIDED TO IDENTIFY
 ASSEMBLY LOCATION PRIOR TO INSTALLATION.
 ELECTRICAL GFCI OUTLET IN HOISTWAY PIT.
 PERMANENT POWER BEFORE INSTALLATION CAN BEGIN. PERMANENT POWER MUST BE
 SUPPLIED.

ENTRANCES
 HANDRAILS: ALL BALCONY LEVELS REQUIRE HANDRAILS TO BE INSTALLED PER LOCAL
 CODES. PER LOCAL CODES, HANDRAILS AND INSTALLATION TO BE
 PROVIDED FOR PIT/FLOOR LOADS IMPOSED BY THE EQUIPMENT. INSTALLER IS
 NOT RESPONSIBLE FOR HANDRAIL INSTALLATION OR MATERIALS.

POWER SUPPLY SPECIFICATIONS	DISCONNECT SIZE	WIRE SIZE	VOLTS	PHASE	AMPERAGE
MONITOR & EQUIP	30 AMPS	30 AMPS	230	SINGLE	20.2 AMPS
CAR LIGHTS	15 AMPS	15 AMPS	115	SINGLE	-
PIT LIGHT	15 AMPS	15 AMPS	115	SINGLE	-

IF A TELEPHONE CIRCUIT IS REQUIRED OPTION FOR ELECTRICALS, USE IT PROVIDED
 AND INSTALLED BY OTHERS. THIS CIRCUIT SHALL BE BROUGHT TO A LOCATION NEXT TO THE
 CONTROLLER AND BE AVAILABLE TO CONNECT AND TEST UPON ELEVATOR INSTALLATION.

SCOPE OF WORK
 INSTALLATION OF A VUELIFT ELEVATOR BY A MASONRY LEVEL LICENSED CONCRETE
 CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CUSTOMER. THE CONTRACTOR SHALL
 BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL
 AGENCIES AND IS IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE MOST CURRENT
 EDITION OF THE FOLLOWING CODES AND STANDARDS:
 ASME A171-2016 SAFETY CODE FOR ELEVATORS AND ESCALATORS;
 PRIVATE RESIDENCE ELEVATORS CODE FOR ELEVATORS AND ESCALATORS;
 ASME A171-2016 THE NATIONAL ELECTRICAL CODE;
 NATIONAL ELECTRICAL CODE FOR ELEVATORS AND ESCALATORS;
 LOCAL CODES AND REGULATIONS, AS APPLICABLE.
 AFTER INSTALLATION THE UNIT WILL BE INSPECTED BY AN INSPECTOR AS REQUIRED
 BY LOCAL LAWS.

GENERAL
 CLASSIFICATION: Residential Building
 APPLIED CODE: ASME 1711-2016 SEC. 5.3
 NEC 2008
 Full Clear Laminated Safety Glass-Complies with ANSI Z97.1

VALTS: _____
 NUMBER OF FLOORS: 2
 MODEL: Octagonal Glass
 CAPACITY: 950 lbs. (432) kg
 NOMINAL SPEED: 40 fpm. (101526 m/s)
 CAB FLOOR AREA: 14.00 Square Feet (1.31 sqmeters)
 CAB INT HEIGHT: 84 Inches (2133 mm)
 CAB WEIGHT: 1000 lbs. (455 kg)
 TOTAL TRAVEL: 262 5/16 Inches
 PIT DEPTH (OPTIO): 4 Inches (102-305mm)
 POWER SUPPLY: 50/60Hz Single Phase 230V
 SAFETIES: 2 Type A Instantaneous Safeties in compliance with
 ASME A171 Sections 217.81 & 117.51
 Mfg Savaria P/N VL481001-01

SUSPENSION:
 TYPE: Galvanized Aircraft Cable 2x3/8" dia
 CONSTRUCTION: 1WRC 7 x 19 RHRL
 NOMINAL STRENGTH: 14,400 lbs. (6531 kg)
 WT. OF ROPES: 0.243 lbs/ft (3.616 g/cm)
 TRAVEL CABLE WT: 0.228 lbs/ft (3.393 g/cm)

DRIVETRAIN:
 TYPE: Winding Drum
 MOTOR: 3 HP with Integrated Brake
 TRANSMISSION: Ultra-Low/Vibration 3-Stage Right Angle Helical-Bevel Drive
 MOTOR CONTROL: Pre-Programmed Variable Freq. Drive
 DOOR INTERLOCKS: Honeywell RDI-G-LSB certified in compliance with
 ASME A171 Sections 212.4.3
 PIT/FLOOR LOAD: (4# of Hoistway100) + (4# of Floor=4276) + 3020 Dead Load (lbs)

PIT FLOOR TO SUPPORT LOAD OF: 2500 kg
 IMPACT LOAD: 3570 kg (5400) (lbs)
 7845 (lbs)

LANDING CHART

LANDING TYPE	LANDING 1	LANDING 2	LANDING 3
ENTRANCE SIDE	SWING DOOR	SWING DOOR	SWING DOOR
DOOR SWING	LH SWING	LH SWING	LH SWING
HAND CALLER SWITCH	HAND CALLER SWITCH	HAND CALLER SWITCH	HAND CALLER SWITCH
FLOOR MARKING	NO	NO	NO
LANDING CONFIGURATION	PIT	THRU-FLOOR	BALCONY

OPTIONS:
 BUFFER SPRING: No
 COLOR: Texture Black (std) PY622A365

DATA SHEET

OWNER: _____
 PROJECT: _____
 ADDRESS: _____

DATE: 04/06/19
 DESIGNED BY: 12/18/19
 S.C.

OFFICE USE ONLY:
 CONSULTATION VERSION: 1.5
 MODEL: 622A365

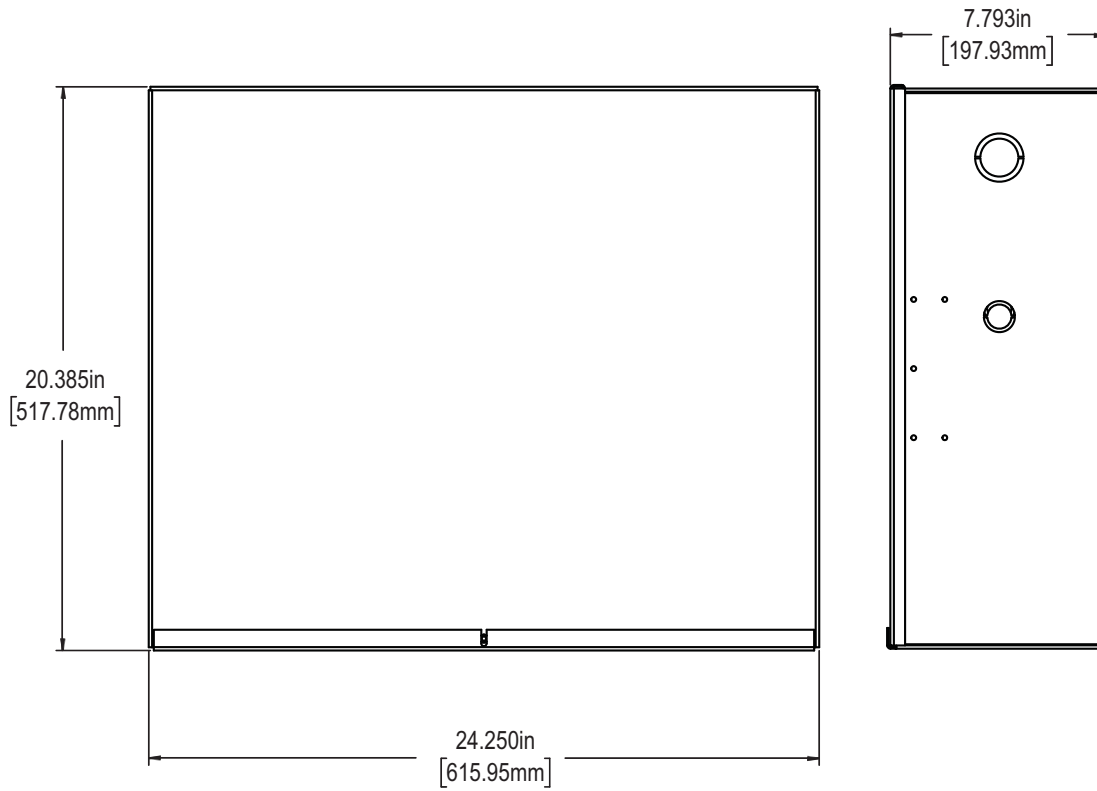
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 Variant No. P-0000000

savaria

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ENTRANCE SIDE LEGEND

Figure 61: Controller box dimensions - round+ glass & octagonal+ glass (RGL & OGL)



Remote Controller, 3 HP (RGL and OGL)

NOTE: A remote controller cannot be more than 50 ft (15.24 m) from the top of the unit for the cable to reach.

Vuelift

Residential Elevator PLANNING GUIDE

Part No. 001123
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Savaria Concord Lifts, Inc.
www.savaria.com

Sales
2 Walker Drive
Brampton, Ontario L6T 5E1
Canada
Tel: (905) 791-5555
Fax: (905) 791-2222
Toll Free: 1-800-661-5112

