



# FLOATING CEILING

MODEL:  
WHISTLER  
WASHINGTON  
LAKE LOUISE  
CASTLE

## INSTALLATION INSTRUCTIONS



## TOOLS REQUIRED

- Measuring Tape
- Drill
- Ladder
- 3" Paint Brush and latex paint for painting the canopy ( If required)
- Mechanical lifter (such as a Gennie Super Hoist) **Recommended**

## SECTION 1: UNPACKING

- 1.1. When your new Floating Ceiling arrives, transport it near to the cab you will be renovating and organize the crates so that they will be easily accessible.

The crates contents are itemized on its surface.

- 1.2. Carefully un-crate the ceiling package, making sure that none of the components are damaged.
- 1.3. Check the colours, features, and dimensions of the components against your order before you begin removing the existing elevator interior.

If you have any questions at this point, contact ECR before going ahead with any part of the installation.

For technical support on the Floating Ceiling installation, please contact us at:

**Elevator Cab Renovations**  
**Office: (613) 745-4870**  
**Toll Free: 1-877-745-4870**  
[ecr@elevatorcabs.ca](mailto:ecr@elevatorcabs.ca)

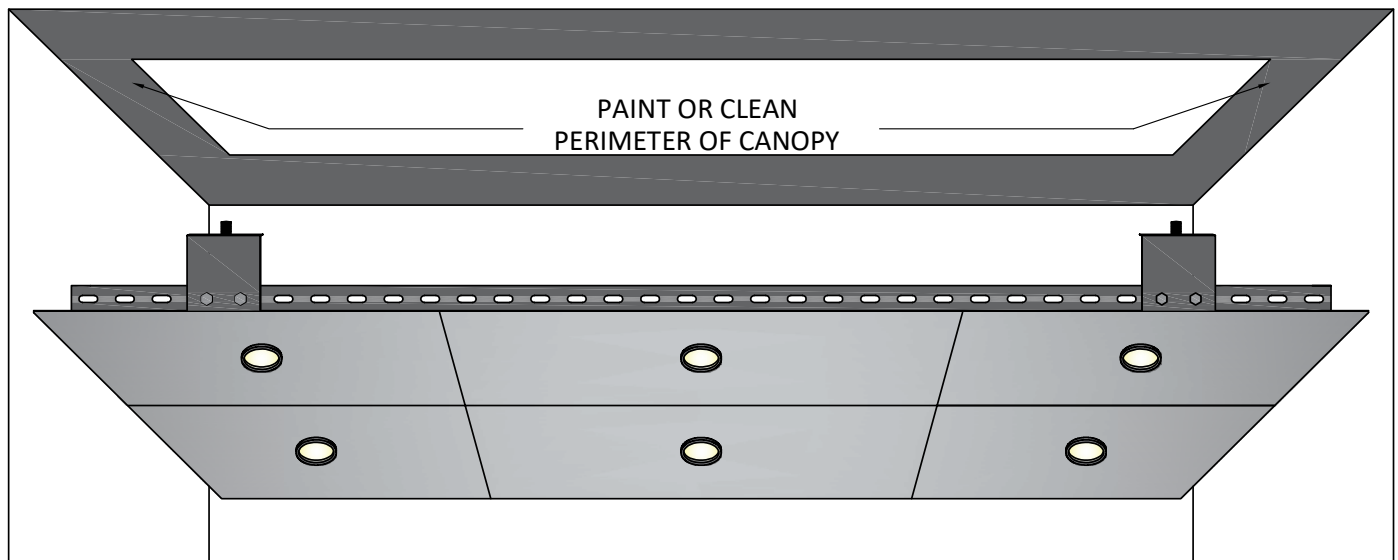
Office Hours : 6:30 AM to 3:30 PM Eastern Standard Time

## SECTION 2: PREPARE CANOPY

- 2.1. Unless specified otherwise, your new floating ceiling will be inset from the shell walls by 2" on all sides. Please consult drawings accompanying ceiling.
- 2.2. Prepare canopy to accept new Floating Ceiling by completing one of the following options:
  - a) Sand, clean and re-paint the perimeter of the canopy with a desired color. Black or white are typical for this type of application (Dia 1.)
  - b) If the canopy is in good condition, a simple cleaning may be all that is required.



Note: It is suggested that for both options a or b, a minimum of 6" of the perimeter of the canopy should be addressed by the process chosen.



**Dia. 1**

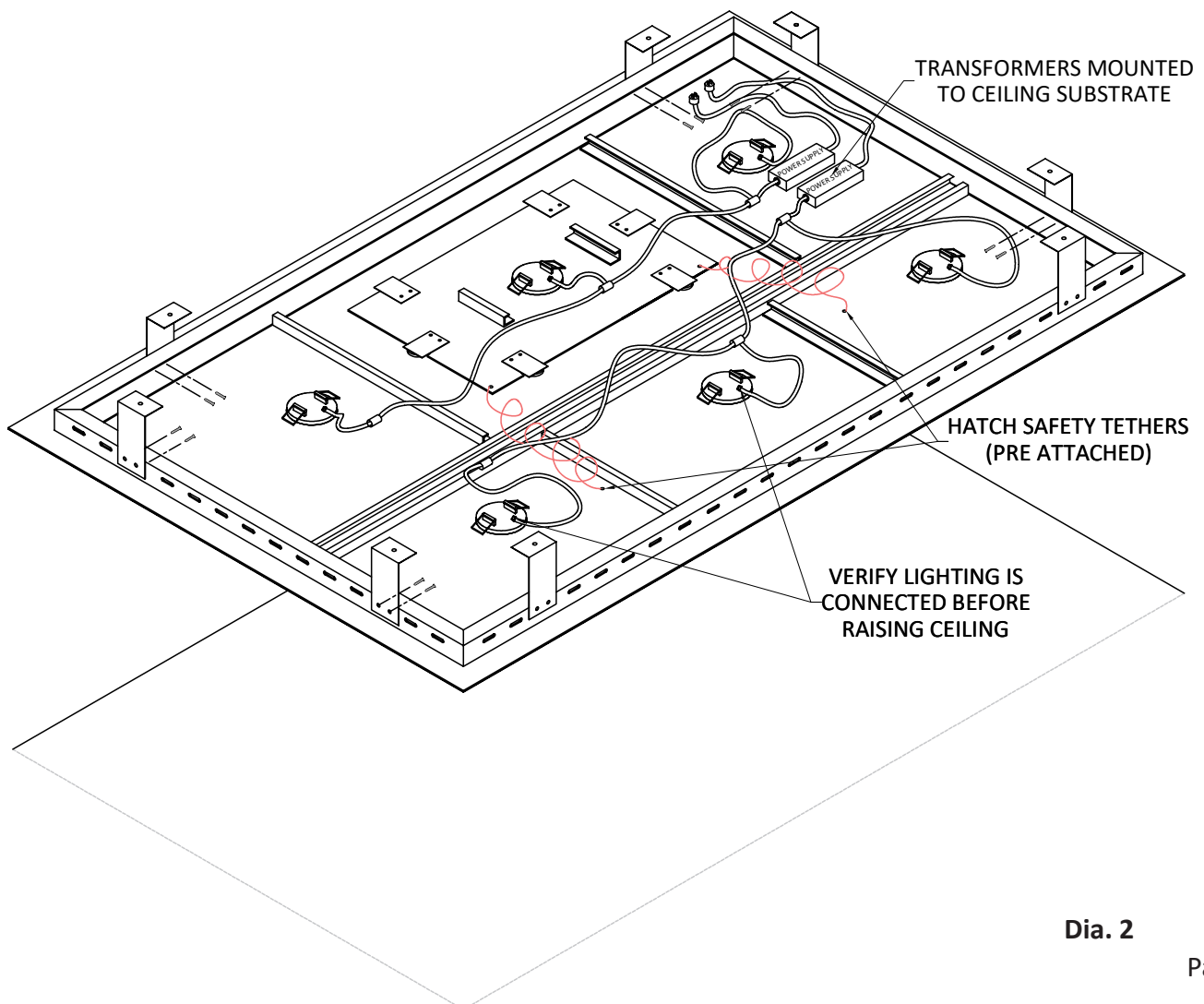
Floating ceiling preparations.



Note: Before raising the ceiling into position, plug in the power supplies to ensure that all the connections are secure and the lights are fully operational.

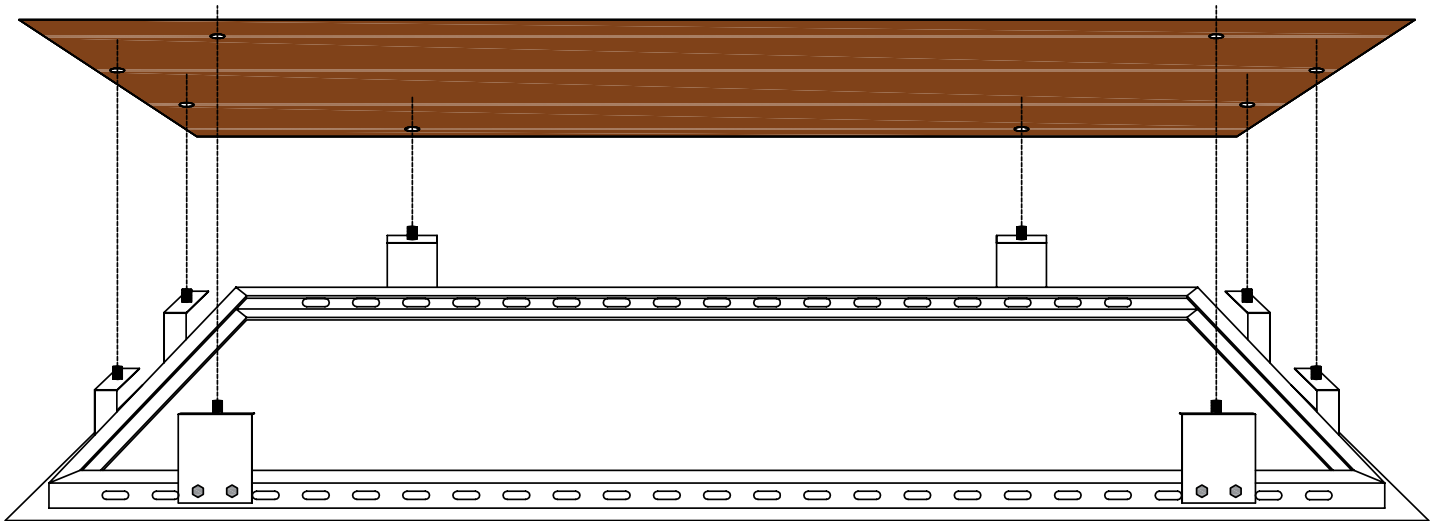
## SECTION 3: PREPARE FLOATING CEILING

- 3.1. Your floating ceiling will be shipped assembled with light kits installed. Support brackets will be packed separately.
- 3.2. The perimeter frame comes pre-fabricated with slots to install the support brackets. Determine safe locations on the car top where the brackets can be installed so that fasteners are not obstructed by ribs, car top equipment, etc. Space and install the brackets to the frame using the 1/4 - 20 x 3/4 bolts provided (Dia. 2).



## SECTION 3: PREPARE FLOATING CEILING (CONTINUED)

- 3.3. Your ceiling includes a mounting template. This will be used to transfer hole locations from the support brackets to the canopy of the cab.
- 3.4. Place the template on top of the ceiling brackets and align it with the edge of the ceiling support frame. Once positioned, mark the mounting holes on the template and drill them out to at least 1/8" (Dia. 3).



**Dia. 3**

Floating Ceiling with mounting template.

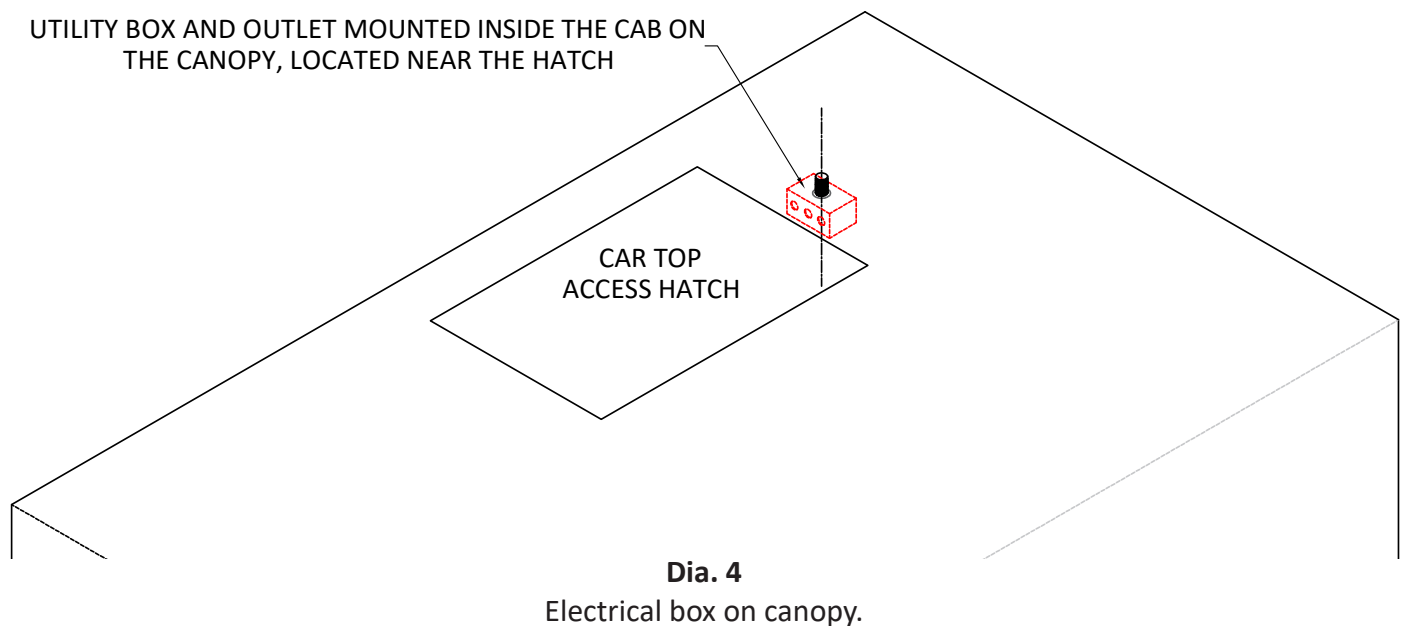
- 3.5. Position the template against the canopy of the cab in the desired location (typically centered side to side; verify drawings accompanying ceiling) and temporarily secure into place with screws or tape. Copy the mounting holes to the canopy by marking through the template holes. Remove the template from the canopy.
- 3.6. Progressively drill holes up to 1/2" diameter in the canopy.



Note: Before drilling through the canopy, ensure that there are no encumbrances. If required; the brackets can be moved and re-installed to suit the site conditions.

## SECTION 4: PREPARE ELECTRICAL CONNECTIONS

- 4.1. Before raising the ceiling into position, the necessary electrical components should be installed. The ceiling will be supplied pre-wired, but verify the lighting connections as access will become difficult once the ceiling is raised in place.
- 4.2. The lighting system runs on 110 V AC through two low voltage power supplies; the installer must provide 110 V to the lighting system.
- 4.3. Mount an electrical utility box (provided) inside the cab on the canopy near the hatch. The low voltage power supplies will be plugged into the receptacle providing power to the disk lights (Dia. 4).



## SECTION 5: INSTALL FLOATING CEILING



All floating ceilings should be raised into position using a mechanical lifter (such as a Genie Super hoist) rated with enough capacity. Lifting the ceiling into position without proper equipment can result in damage to the ceiling, the surrounding wall finishes and/or personal injury.



**Dia. 5**  
Genie ceiling lift.

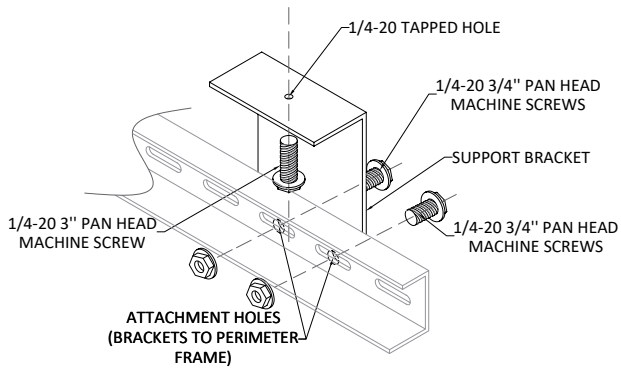


Protect any exposed wall finishes prior to raising the floating ceiling into position.

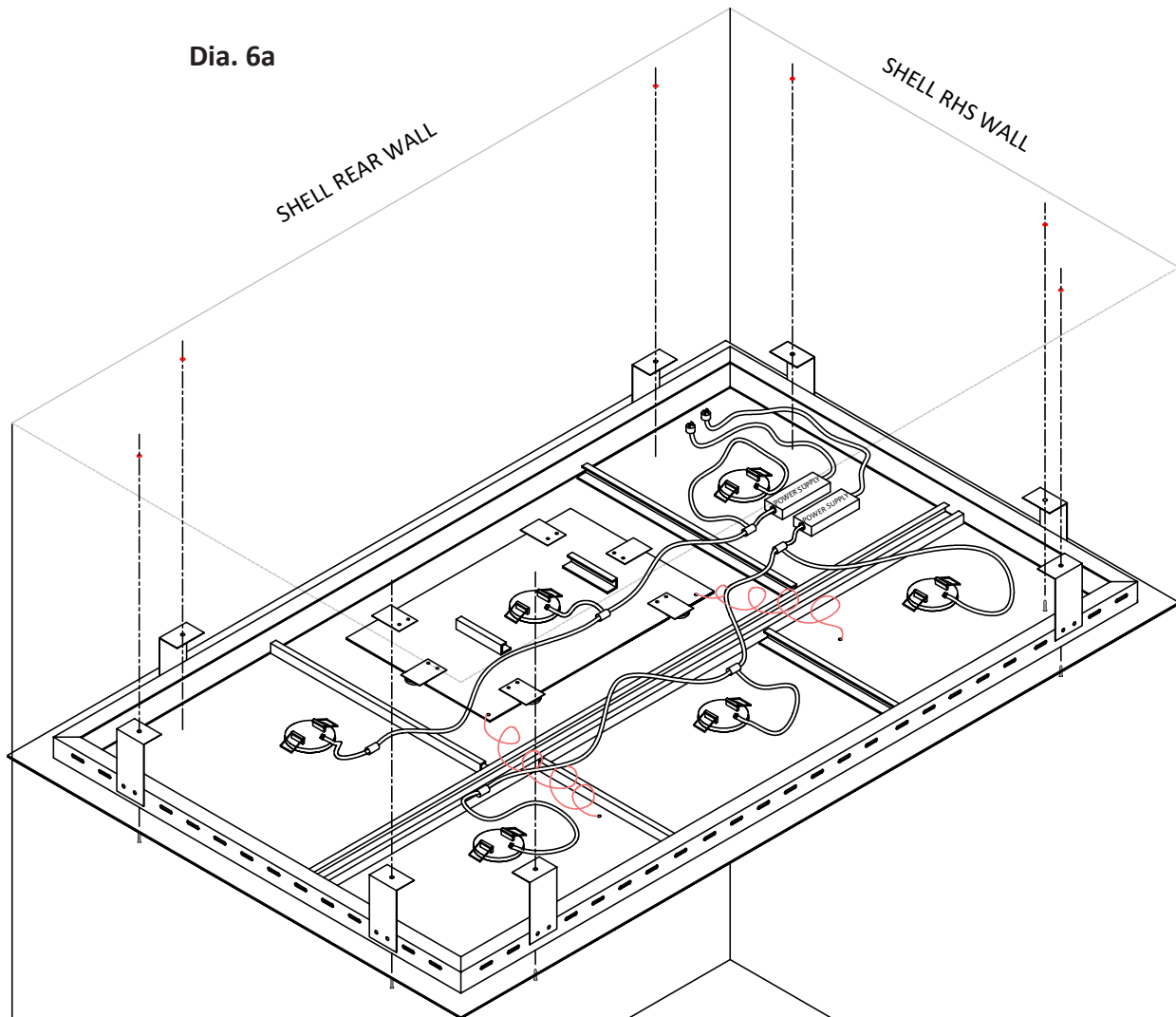
- 5.1. Ensure the platform of the lifter will not damage the ceiling during use. This can be accomplished using plywood covered with foam, or another non-marking material. If possible, it is preferable to leave the hatch area un-obstructed.
- 5.2. Open the hatch on the canopy.
- 5.3. Place the ceiling on the lifter with the good side facing down. Remove the ceiling hatch portion and place it within the floating ceiling where it can be reached from the escape hatch in the canopy once the ceiling is installed.
- 5.4. Slowly raise the ceiling into place. This is best done with a person at the hatch looking between the ceiling and the canopy and making any adjustments necessary to align the studs with the holes in the canopy.

## SECTION 5: INSTALL FLOATING CEILING (CONTINUED)

- 5.5. Fasten the floating ceiling to the canopy using the 1/4-20 x 3" bolts provided (Dia. 6). Loctite can be applied to the nut/bolt assembly (Loctite is not included).
- 5.6. The support bracket has a 1/4-20 tapped hole on the upper flange. Insert the 1/4-20 x 3" pan-head bolts provided (Dia. 6a).



**Dia. 6a**

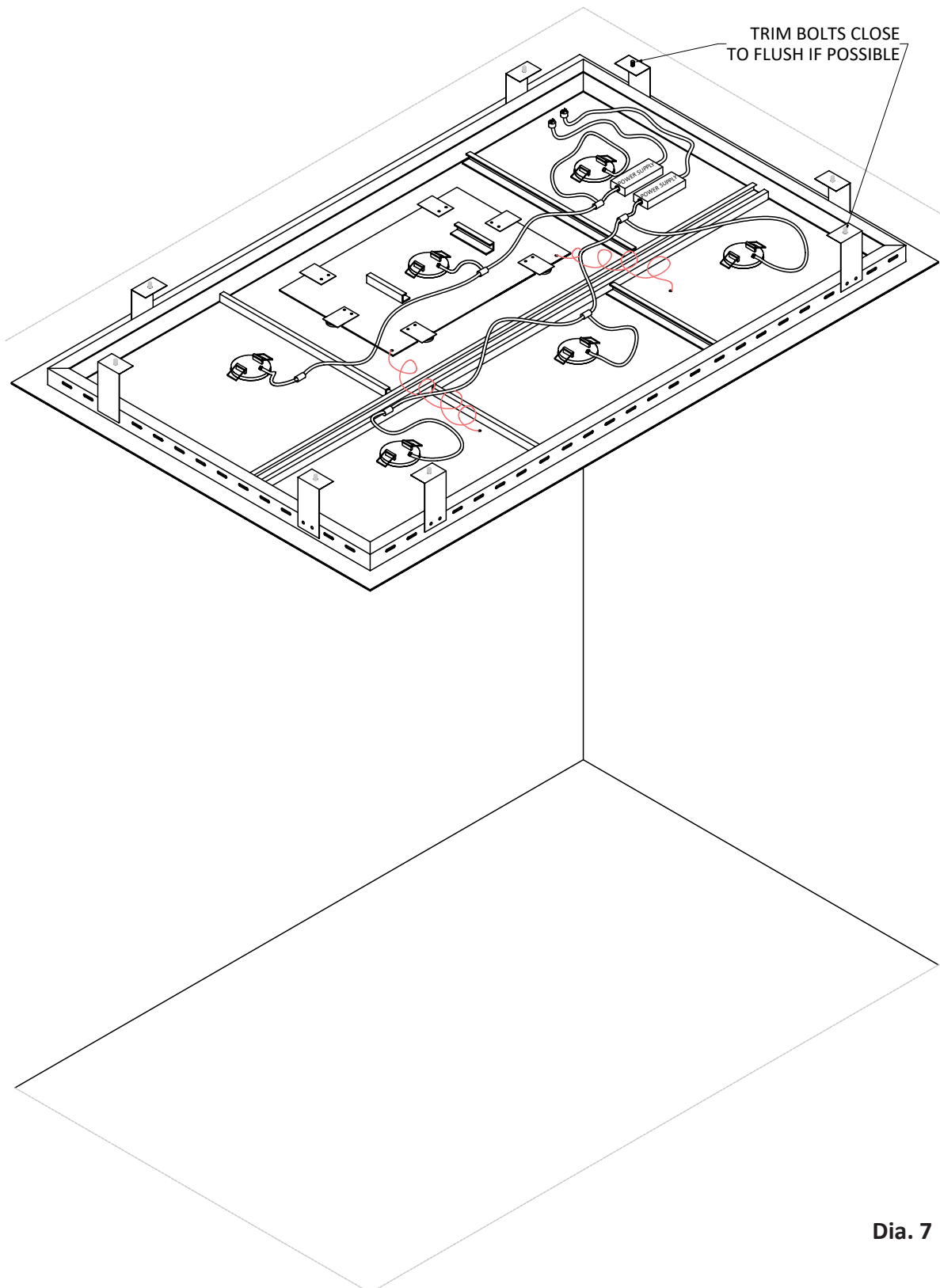


**Dia. 6**



## SECTION 5: INSTALL FLOATING CEILING (CONTINUED)

- 5.7. Once the ceiling is secured in place, trim the studs protruding from the canopy as flush as possible to remove any potential trip hazards (Dia. 7).
- 5.8. Carefully lower the mechanical lifter and remove it from the cab

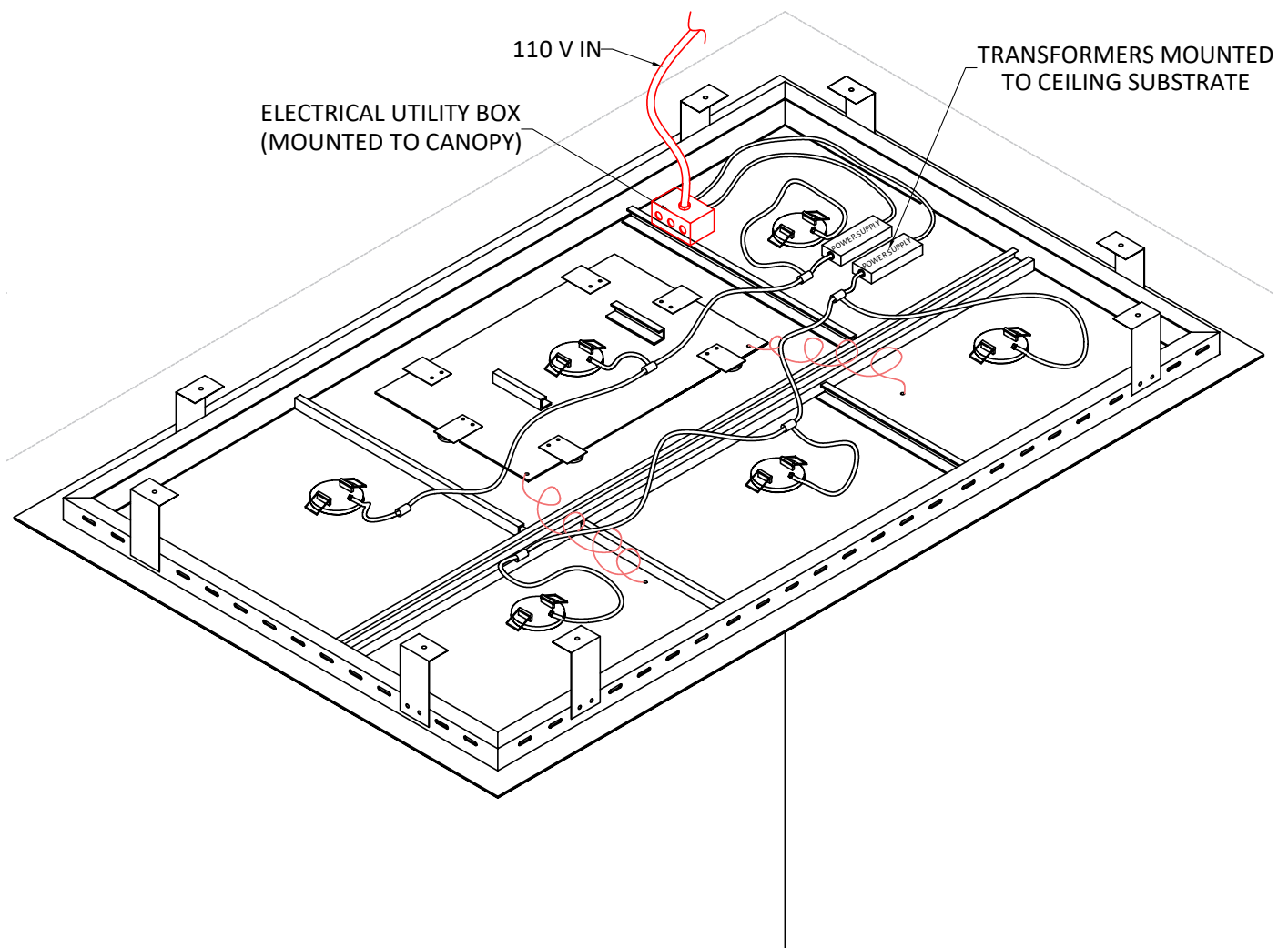


**Dia. 7**

## SECTION 6: ELECTRICAL CONNECTIONS

- 6.1. Plug the low voltage power supplies into the utility box previously mounted to the canopy to complete the electrical connections.
- 6.2. If a dimmer was purchased, the intensity can be adjusted by accessing the dimmer through the open hatch. The in-line dimmer can be installed (plug and play) onto the low voltage side of the power supply.
- 6.3. Set the required light level for you jurisdiction (ASME A17.1-2013/ CSA B44-13):
  - a) 50 lux for passenger elevators\*
  - b) 25 lux for freight elevators\*

\*Appendix E 100X for passenger



## GLOSSARY

### Canopy:

The roof of the cab.

The top structural component of the shell.

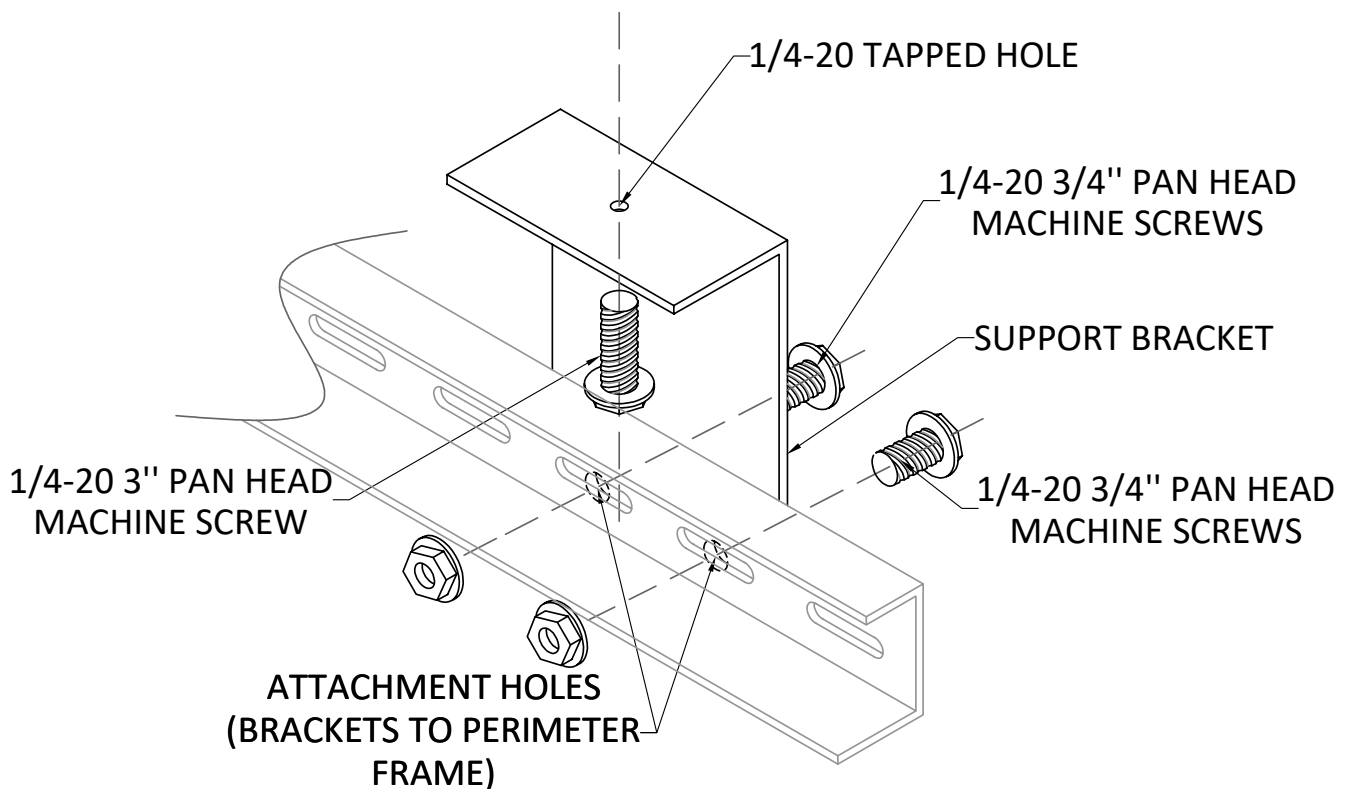
The canopy houses the emergency hatch.

The canopy may have various electrical and mechanical components attached to its surfaces, both interior and exterior.

### Ceiling Brackets:

Ceiling brackets are "L-shaped" constructed of 1/16" thick steel.

Brackets are manufactured with mounting holes for 1/4-20 bolts for fast and easy installation.



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