



LIFT APPLICATION GUIDELINES

ACCESSOR I – MODEL VMW-09
ACCESSOR II – MODEL VMX-07



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GENERAL INFORMATION

PURPOSE

LIFT-U® has prepared this document for the purpose of providing building owners and owner representatives such as architects, contractors, and installers with information specific to design planning, special provisions, installation considerations, and regulatory compliance responsibility relevant to the LIFT-U® Accessor I Model VMW and Accessor II Model VMX Vertical Platform Lifts, hereinafter referred to as VMW and VMX respectively.

The information presented in this document is fairly generic for VMW and VMX lift applications and not intended to address every detail or special conditions that may be encountered on a project.

PRODUCT OVERVIEW

By way of introduction, the VMW and VMX lift models are not conventional Vertical Platform Lifts comprised of a car with platform mounted sidewalls, but rather the VMW and VMX are comprised of a platform that raises and lowers within the confines of stationary millwork walls and the closed entrance/exit doors hingedly attached thereto. Subsequently, the lift layout is customized for each application.

SUITABLE LIFT APPLICATIONS

The VMW and VMX Vertical Platform Lifts are specifically designed for use in courtrooms to facilitate mobility-impaired judges, witnesses, clerks, and jurors, but are also well suited for elevated stage rostrums such as church pulpits and meeting chamber podiums to provide accessibility to mobility-impaired clergy and public speakers.



APPLICATION GUIDELINES

LIFT MODEL SELECTION

Accessor I Model VMW

1. The four (4) screw jack column design permits the lift to be installed directly on the lower landing floor without the need for a pit.
2. The lift screw columns, base frame, and drive train are encased in millwork walls surrounding the lift platform, thus requiring the coordination of other trades.
3. The drive motor and electronics are located under the upper landing.
4. Refer to exemplar Lift Configuration drawing 910-0091 which is included in this document.

Accessor II Model VMX

1. The lever-screw design requires the lift to be installed in a pit or sub-floor at least 6 inches below the lower landing floor; LIFT-U recommends 7 inches.
2. The lift drive mechanism, motor, and electronics are oriented under the upper landing, thus minimizing the influence on millwork walls surrounding the lift platform.
3. Refer to exemplar Lift Configuration drawing 910-0092 which is included in this document.

For graphic illustration of these design differences and the variables to consider when planning for a particular lift application, as well as LIFT-U's recommended interface design principles for the lift and optional equipment, refer to exemplar Lift Configuration drawings 910-0091 and 910-0092 along with the following drawings included near the back portion of this document:

1. 910-0026, VMW Lift / Millwork Interface
2. 910-0042, Roll-up Barrier / Millwork Interface
3. 910-0054, Step Module / Millwork Interface
4. 910-0055, Door Set-up Alternatives
5. 910-0056, Strike Latch / Millwork Interface
6. 910-0085, Operable Step / Millwork Interface
7. 910-0088, Roll-Up Barrier Overview
8. 910-0089, Retractable Step Overview
9. 910-0090, Operable Step Overview
10. 910-0093, Electromagnetic Door Holder / Millwork Interface

To further facilitate the architectural design process, design files such as 2D CAD and Revit 3D RFA models are available online at Autodesk® Seek; <http://seek.autodesk.com/>. Simply type LIFT-U in the search field; then on LIFT-U's product page select either Accessor I or Accessor II. There you will find several design files as well as additional product information that can be downloaded. The design files may be edited to suit each lift application.

PLATFORM SIZE AND DOOR OPENING LIMITATIONS

The advantage of using the VMW or VMX is that the platform size and layout can be customized for each application, as well as orientation and placement of the entrance/exit doors.



Be advised, there are certain limitations to be aware of with respect to minimum and maximum dimensions. The minimum platform size and minimum door opening are contingent upon door orientation, i.e., whether the lift provides straight through access or involves a 90 degree turn for the wheelchair-bound passenger. For illustration of available orientations and preferred minimum dimensions refer to template layout drawings 910-0064 thru 910-0071 for the VMW and 910-0072 thru 910-0078 for the VMX near the back portion of this document.

Further, the maximum platform size is preferably no greater than 25 sq. ft. However, certain applications may be cause for exception and must be evaluated on a case-by case basis.

The best method to prevent exceeding the 25 sq. ft. maximum platform size, particularly for courtroom lift applications where the witness stand or clerk bench footprint may be larger than 25 sq. ft., is to include the LIFT-U® Roll-up Barrier in the witness/clerk landing. Since space in the interior of the witness stand or clerk bench is typically too restrictive for a hinged self-closing door, the LIFT-U® Roll-up Barrier is a practical alternative. The Roll-up Barrier is also practical for non-courtroom lift applications when door swing is an issue. The Roll-up Barrier is illustrated in context on drawing 910-0088, Roll-up Barrier Overview. Additional details are shown on drawing 910-0042, titled Roll-up Barrier/Millwork Interface. Both drawings are included near the back portion of this document.

ACCESSOR SPECIFICATIONS

1. Platform dimensions vary for each application.
2. Lift capacity (maximum operating load):
 - 750 lbs for platforms less than or equal to 18 ft².
 - 1050 lbs for platforms greater than 18 ft².
3. Speed is 10 ft./min. maximum.
4. Maximum vertical travel is limited to 24 inches.
5. Manual lowering device is included.
6. Factory finish for all steel framework is black powder-coat.
7. Power source requirements are 115 VAC, 15 amp, 3 wire, single-phase service.

COMPONENTS SUPPLIED BY LIFT-U®

The lift package as delivered includes the following:

1. Lift Assembly.
2. Threshold Ramp (if applicable).
3. Electrical Control Panel with Lockable Disconnect.
4. Operator Control Stations (call buttons).
5. Electric Strike Latches.
6. Spring-loaded Latch Bolts.
7. Anchor Bolts.
8. Roll-up Barrier Module (if applicable).
9. Retractable Step Module (if applicable).
10. Hinged Riser – VMW (if applicable).
11. Fixed Riser – VMX (if applicable).
12. Battery Back-up / UPS (if applicable).
13. Operable Step (if applicable).
14. Electromagnetic Door Holder (if applicable)



REGULATORY REQUIREMENTS

Vertical Platform Lift design, construction, installation, operation, inspection, testing, maintenance, and repair is specified in Standards developed and published by The American Society of Mechanical Engineers (ASME), entitled ASME A18.1 Safety Standard For Platform Lifts And Stairway Chairlifts. The ASME Standard is intended to serve as the basis for state, municipal, and other jurisdictional authorities in drafting regulations governing Vertical Platform Lifts. With respect to A18.1 effectivity in each jurisdiction, the edition date in effect established by the local jurisdiction may vary; therefore, the local regulations from the authority having jurisdiction (AHJ) must be reviewed prior to each lift installation.

For ASME A18.1 references cited in this document, the latest 2008 edition is used.

Regarding ASME A18.1, Section 2 categories: 1) Refer to Section 2.1.4 for courtroom lift applications; and 2) For non-courtroom lift applications the Accessor can be characterized in part as having a "Runway Enclosure Provided", reference para. 2.1.1. Due to architecturally desired features, certain VMW and VMX applications may not comply "to the letter" with all the requirements specified in the A18.1 Standard. In those cases, a variance must be requested for certain specification deviations from the authority having jurisdiction. Typically a variance application for the VMW and VMX will address items such as platform size, stationary millwork walls, millwork wall height and door height, and intermediate landing guard (if applicable). If a variance is necessary LIFT-U® will, on behalf of the building owner, facilitate expediting the variance application.

The basis for a variance request is expressly permitted by A18.1 para. 1.2, which states:

"The purpose of this Standard is to provide for the safety of life and limb, and to promote the public welfare.

The provisions of this Standard are not intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety to those prescribed by this Standard provided that there is technical documentation to demonstrate the equivalency of the system, method, or device.

The specific requirements of this Standard shall be permitted to be modified by the authority having jurisdiction based upon technical documentation or physical performance verification to allow alternative arrangements that will assure safety equivalent to that which would be provided by conformance to the corresponding requirements of this Standard."

For A18.1 regulations applicable to the other trades involved with either the VMW or VMX lift installation, refer to the section entitled, Regulatory Compliance by Others, on page 8 of this document.



RESPONSIBILITY OF OTHERS

SCOPE OF WORK BY OTHERS

The design, materials, construction, and installation of the following items are the responsibility of others.

1. Lift support structure/foundation.
2. Site preparations, including main electrical power connection to lift power input.
3. Prior to installation, placement of lift must be defined. Chalk lines may be used to outline exact lift location.
4. Building elements and millwork that encase the lift mechanism adjacent to and surrounding the lift platform, including but not limited to structural framing and veneered panel finishes.
5. Doors, including self-closing spring hinges.
6. Installation of lift control panels (supplied by LIFT-U®).
7. Installation of door strike latches (supplied by LIFT-U®).
8. Illumination of lift area.
9. Platform floor covering material.
10. Removable step (if applicable).

INTERFACE REQUIREMENTS

Space and structural provisions shall be provided in building elements and millwork to accommodate the lift assembly, motor, and electronics. As non-limiting examples, the following features shall be included:

1. Adequate clear space is required under the upper landing for the lift drive mechanism, motor, and electronics.
2. A service hatch is required in the upper landing floor approximate to the motor and electronics. The size of the service hatch shall be sufficient for access to the main power disconnect and to facilitate maintenance.
3. Cutout reliefs in the millwork are required for lift frame clearance and operational lift elements.
4. Interior millwork panels adjacent to the lift platform shall be smooth.
5. With respect to the VMW, the interior millwork panels are to be made removable to facilitate lift maintenance.
6. Running clearance between platform edges and adjacent millwork surfaces shall be no less than 0.375 inch nor more than 0.75 inch.

Refer to applicable Lift Configuration drawing for layout, orientation, and controlling dimensions for each project.



REGULATORY COMPLIANCE BY OTHERS

The ASME A18.1 specifies requirements for the design, construction, installation, operation, inspection, testing, maintenance, and repair for Vertical Platform Lifts.

With respect to the VMW and VMX installation, while LIFT-U® is required to certify that the lift complies with the A18.1 Standard and any variance decisions granted by the AHJ, there are certain requirements associated with elements necessary for the installation of a complete lift system that are not provided by LIFT-U®, and therefore require the cooperation of other trades contracted by the building owner. Subsequently, these other trades are responsible for compliance with the A18.1 requirements related to their respective work. These elements are itemized in the Scope of Work by Others noted on page 7 of this document.

LIFT-U® hereby advises the building owner, or owner's designated representative, of the owner's responsibility to communicate the applicable A18.1 requirements to the appropriate trades. To facilitate this effort, LIFT-U® has summarized below the A18.1 requirements that other trades involved with the lift installation must comply with - refer to the A18.1 Standard for complete text.

Applicable to Courtroom Lift Installations

2.1.4.1 Upper Landing Entrance

- A door measuring at least 36 inches high shall guard the entrance. Refer to the Lift Configuration drawing and variance decision for allowable door/guard height deviation.
- Door shall be unperforated.
- Door shall be self-closing.
- Door shall be capable of withstanding 125 lbf applied on any 4 inch by 4 inch area without permanent deformation.
- Door shall be located not more than 3 inches from the platform sill.
LIFT-U® recommends locating the door flush with the upper landing fascia.

2.1.4.4 Vertical Fascia

- A vertical fascia shall be provided from the upper landing sill and any intermediate landing sill to the lower landing and shall guard the full width of the platform.
- If openings are necessary in the fascia for operation, they shall reject a ball 0.5 inch in diameter.
- Fascia shall be capable of withstanding 125 lbf applied on any 4 inch by 4 inch area without permanent deformation.
- Clearance between the fascia and platform edge shall not be less than 0.375 inch nor more than 0.75 inch.

2.1.4.5 Lower Landing Entrance

- A door measuring at least 36 inches high shall guard the entrance. Refer to the Lift Configuration drawing and variance decision for allowable door/guard height deviation.
- Door shall be unperforated.
- Door shall be self-closing.



- Door shall be capable of withstanding 125 lbf applied on any 4 inch by 4 inch area without permanent deformation.
- Clearance between the door and platform edge shall not be less than 0.375 inch nor more than 0.75 inch.

2.1.4.6 Stationary Runway Guards [millwork sidewalls]

- Sides of the platform not used for entrance or exit shall be guarded by stationary millwork walls that extend to a height of at least 36 inches above the lower landing. Refer to the Lift Configuration drawing and variance decision for allowable wall height deviation.
- Millwork walls shall be unperforated.
- Openings necessary for lift operation shall reject a ball 0.5 inch in diameter.
- Clearance between stationary millwork walls and the platform edge shall not be less than 0.375 inch nor more than 0.75 inch.

2.1.4.7 Doors / Guards

- Doors shall be provided with a combination mechanical lock and electric contact. LIFT-U® furnishes the electric strike latches and associated wiring to interface with the lift control system, which are incorporated by other trades.

Applicable to Non-Courtroom Lift Installations

2.1.1.1 Runway Guards

- Millwork wall height shall extend from the lower landing to at least 42 inches above the uppermost landing. Refer to the Lift Configuration drawing and variance decision for allowable wall height deviations.
- Millwork walls shall be capable of withstanding 125 lbf applied on any 4 inch by 4 inch area without permanent deformation.
- Millwork wall interior surfaces on all sides facing the lift platform shall be smooth.

2.1.1.2 Upper Landing Entrance

- A door measuring at least 42 inches high shall guard the entrance. Refer to the Lift Configuration drawing and variance decision for allowable door/guard height deviation.
- Door shall be unperforated.
- Door shall be self-closing.
- Door surface facing the lift platform shall be smooth.
- Door shall be located not more than 3 inches from the platform sill. LIFT-U® recommends locating the door flush with the upper landing fascia.

2.1.1.3 Lower and Intermediate Landing Entrance

- The entrance opening shall be at least 79 inches high. A door shall guard the entire opening except for space necessary for operation. Space necessary for operation shall reject a 0.5 inch diameter ball. Refer to the Lift Configuration drawing and variance decision for allowable door/guard height deviation.
- Door shall be unperforated.
- Door shall be self-closing.



- Door surface facing the lift platform shall be smooth.
- Door shall be located 0.375 inch to 0.75 inch from the edge of the platform floor.

2.1.1.4 Doors

- Doors shall be provided with a combination mechanical lock and electric contact. LIFT-U® furnishes the electric strike latches and associated wiring to interface with the lift control system, which are incorporated by other trades.
- Doors shall be capable of withstanding 125 lbf applied on any 4 inch by 4 inch area without permanent deformation.

Applicable to Both Courtroom and Non-Courtroom Lift Installations

2.1.1.5 Protrusions

- No hardware shall project beyond the vertical line of travel of the platform. For witness stands that may include a desk or counter top positioned within the vertical line of travel of the platform, LIFT-U® recommends desk and counter tops either be mounted to the lift platform and thus move with the lift, or be hinge mounted to the millwork or removable to prevent a potential hazard to the passenger.

2.1.1.6 Platform Running Clearance

- The running clearance between the entrance and exit sides of the platform floor and the interior of the runway enclosure [millwork walls] shall not be less than 0.375 inch nor more than 0.75 inch.

2.1.5 Pipes in Runway Vicinity

- No piping is permitted in the runway [lift footprint].

2.1.8 Structural Support

- The structure on which the equipment is installed shall be capable of safely supporting the loads imposed. LIFT-U® provides the building owner, or owner's representative, with the appropriate load data.

2.1.9 Headroom Clearance

- Headroom clearance throughout the range of travel shall be not less than 79 inches as measured vertically from the platform floor. Refer to the Lift Configuration drawing for lift operational envelope dimensions.

2.2.4.2 Brackets, Fastenings, and Supports

- The guide-rail brackets, their fastenings and supports, such as building beams and walls, shall be capable of resisting the horizontal forces imposed by rated load with a total deflection to the point of support not in excess of 0.125 inch. [Related to millwork walls that encase the VMW screw columns].

2.2.7 Design and Strength of Brackets and Supports

- The building construction forming the supports for the guide rails, and the guide-rail brackets, shall be designed to safely withstand the application of the platform when



stopping the platform and its rated load; and withstand the forces specified in para. 2.2.4.2 within the deflection limits specified.

Where necessary, the building construction shall be reinforced to provide adequate support for the guide rails. *[Related to millwork walls that encase the VMW screw columns].*

2.3.6 Guiding Member Enclosures

- The guiding members shall be guarded to prevent accidental contact. Any openings necessary in guards for operation, they shall reject a ball 0.75 inch in diameter. *[Related to millwork walls that encase the VMW screw columns].*

2.5.8 Guarding

- All suspension means shall be guarded against accidental contact. Suspension means, which operate within a guide or track and travel at the same speed and in the same direction as the platform shall be considered suitably guarded. *[Related to millwork walls that encase the VMW screw columns or VMX mechanism].*

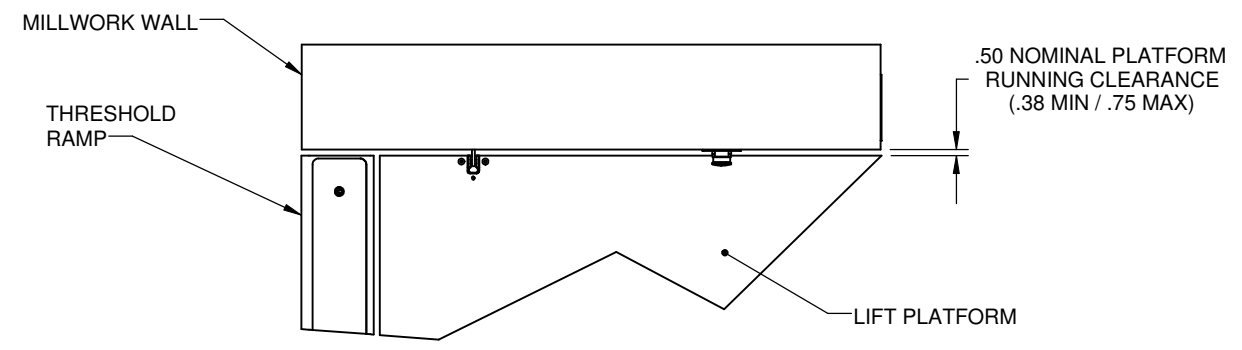
2.6.6 Illumination

- 2.6.6.1** At the threshold of the floor, with the landing door open, the minimum illumination shall be not less than 5 ftc (50 lx).
- 2.6.6.2** During operation, the minimum illumination on the floor and controls shall be not less than 5 ftc (50 lx).
- 2.6.6.3** An auxiliary illumination source to provide general illumination of not less than 0.2 ftc (2.2 lx) on the floor and controls shall be provided. The auxiliary system shall be automatically activated when normal illumination power fails and shall be capable of maintaining the above illumination intensity for a period of not less than 4 hr and shall use no fewer than two lamps of approximately equal wattage.

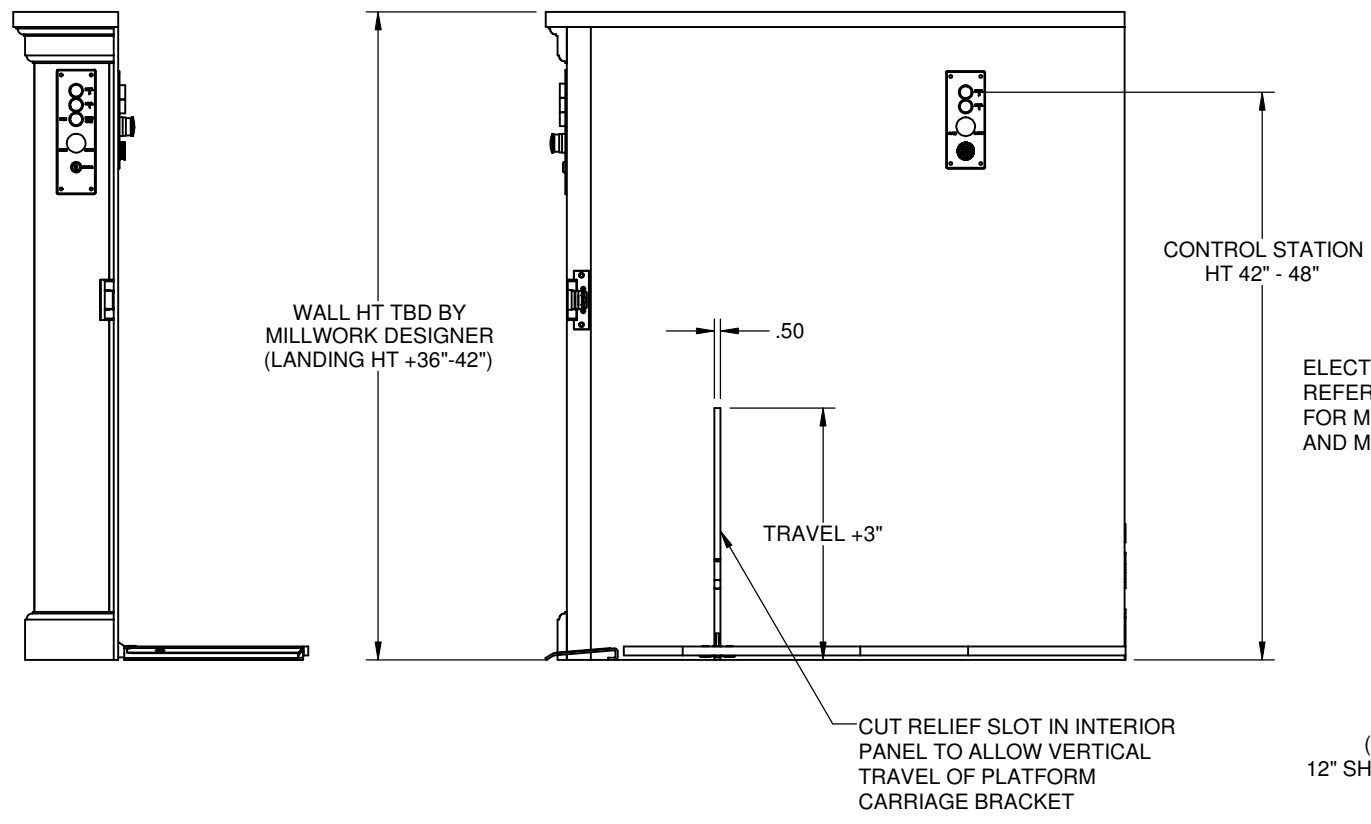
2.10.1 Operator Control Stations

- Controls shall be located between 48 inches maximum and 15 inches minimum above the platform floor or facility floor or ground level.

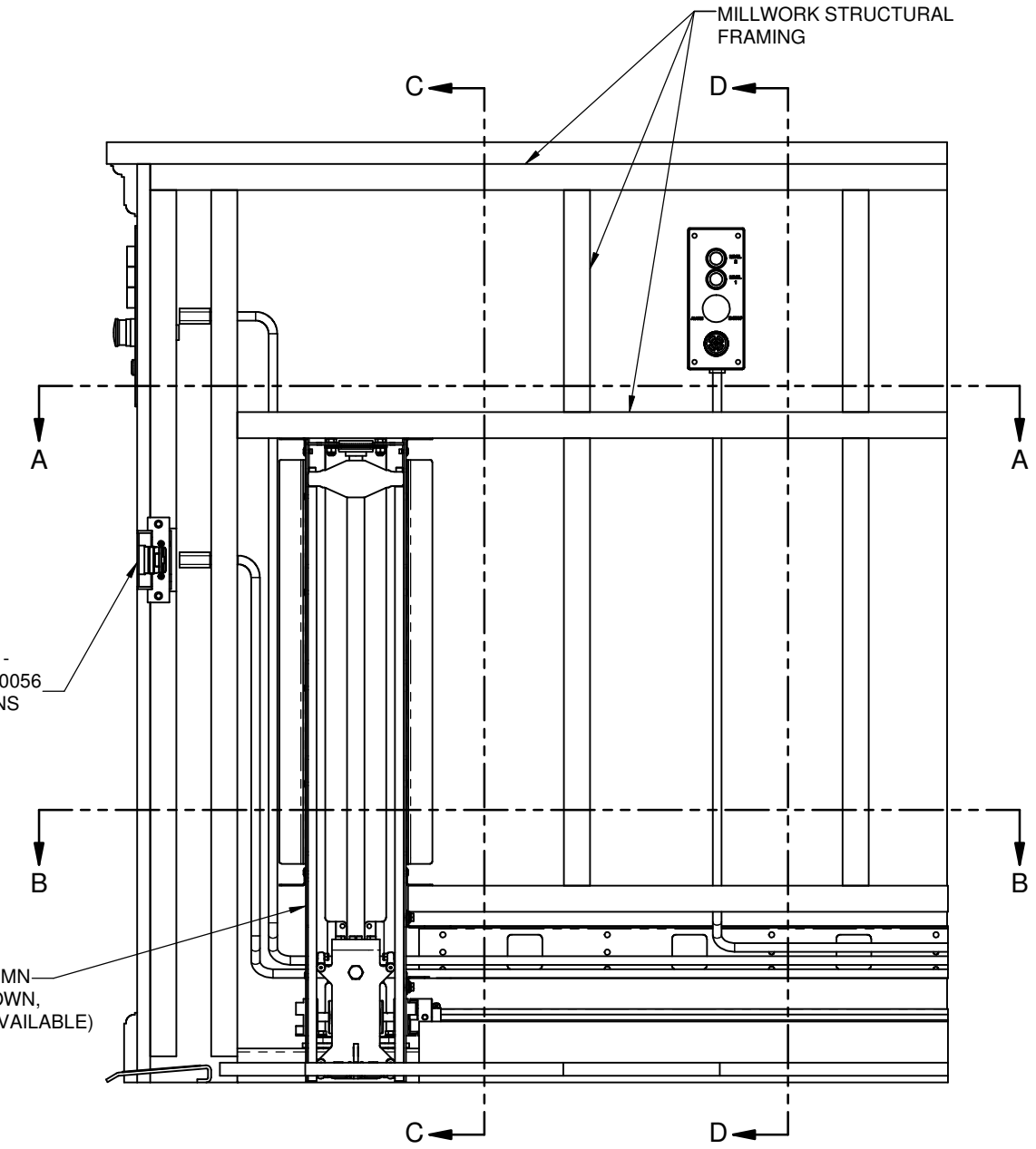
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B				REVISED STRIKE LATCH NOTE ON SHT 1	CAL	9/7/2007		
C				UPDATED MODEL PER CURRENT DESIGN	BRB	9/21/2011		



WALL SEGMENT PLAN VIEW



WALL SEGMENT ELEVATION VIEW



ENLARGED VIEW OF WALL SEGMENT WITH INTERIOR PANEL REMOVED (SEE SHEETS 2-4 FOR SECTIONS AND DETAILS)

NOTES:

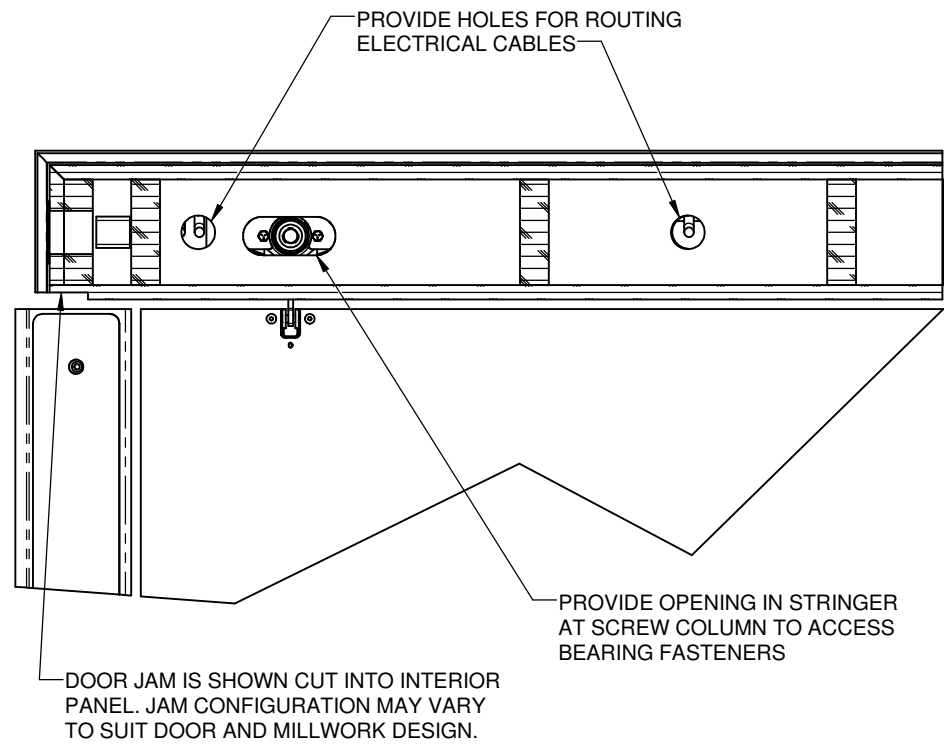
THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED LIFT / MILLWORK INTERFACE. FOR EACH PROJECT APPLICATION REFER TO ITS CORRESPONDING LIFT CONFIGURATION DRAWING FOR GENERAL ARRANGEMENT LAYOUT AND LIFT ENVELOPE DIMENSIONS.

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT ARE FURNISHED AND INSTALLED BY OTHERS.

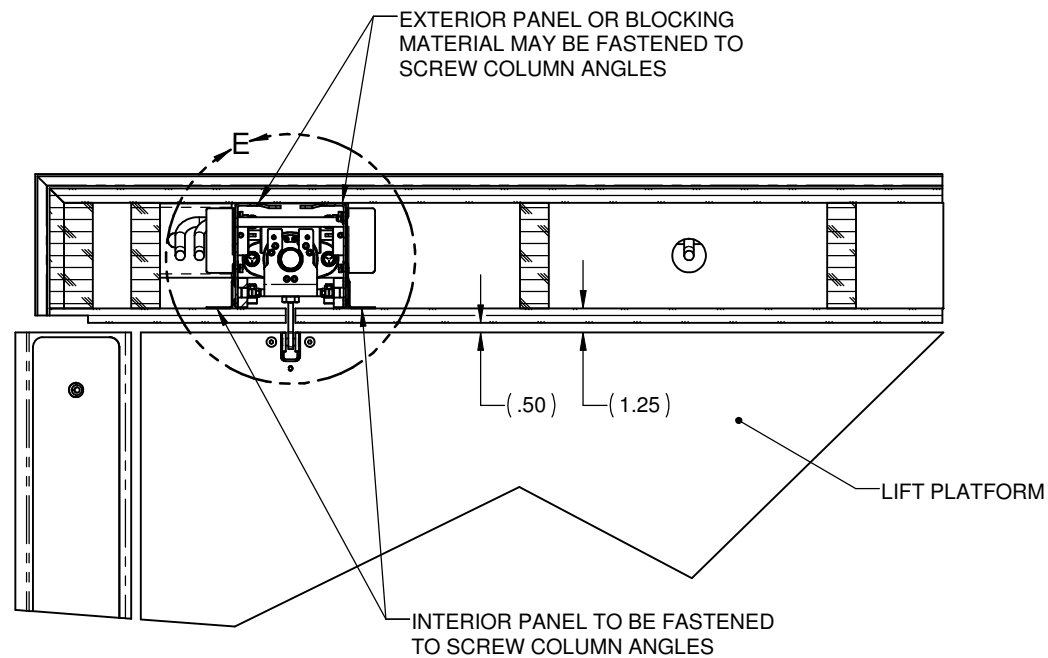
THE VMW LIFT MECHANISM (i.e., SCREW COLUMNS, BASE FRAME, AND DRIVE TRAIN) IS ENCASED IN MILLWORK WALLS SURROUNDING A LIFT PLATFORM THAT TRAVELS UP AND DOWN. SINCE THE MILLWORK IS FURNISHED AND INSTALLED BY OTHERS THE INTERFACE OF THE MILLWORK TO THE LIFT IS CRITICAL TO A SUCCESSFUL INSTALLATION, WHEREIN THE MILLWORK WALL SYSTEM IS NOT ONLY STRUCTURALLY SOUND AND AESTHETICALLY APPEALING, BUT JUST AS IMPORTANT SPECIFIC PROVISIONS AND CLEARANCES TO ACCOMMODATE CERTAIN LIFT ELEMENTS ARE ALSO INCLUDED IN THE MILLWORK TO ENSURE PROPER LIFT OPERATION AND SERVICABILITY.

ONLY A SMALL SEGMENT OF MILLWORK WALL AND ONE SCREW COLUMN IS SHOWN ON THIS DRAWING. THE SAME DESIGN PRINCIPLES CAN BE APPLIED TO THE OTHER WALLS BORDERING THE LIFT.

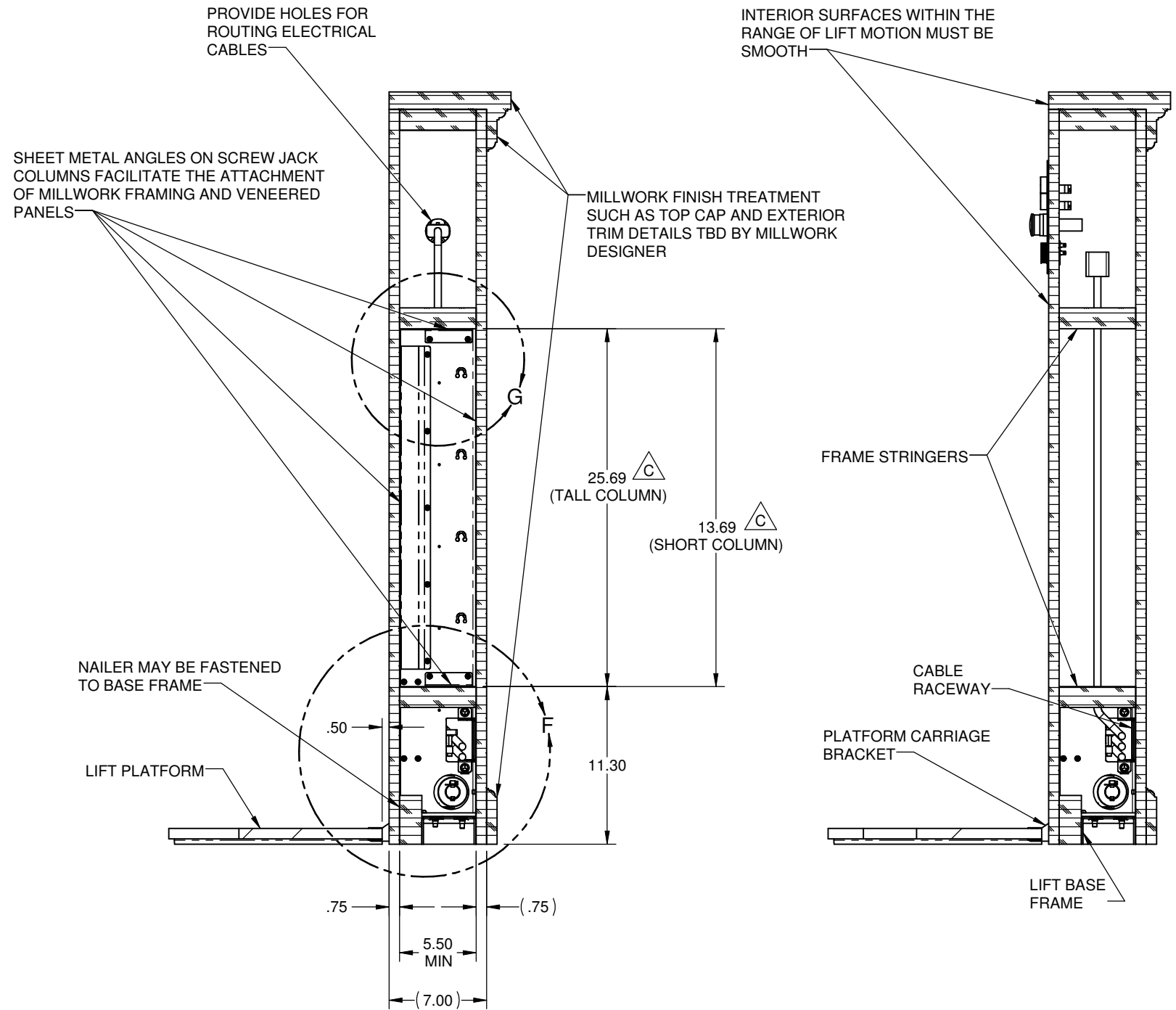
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SECTION A-A




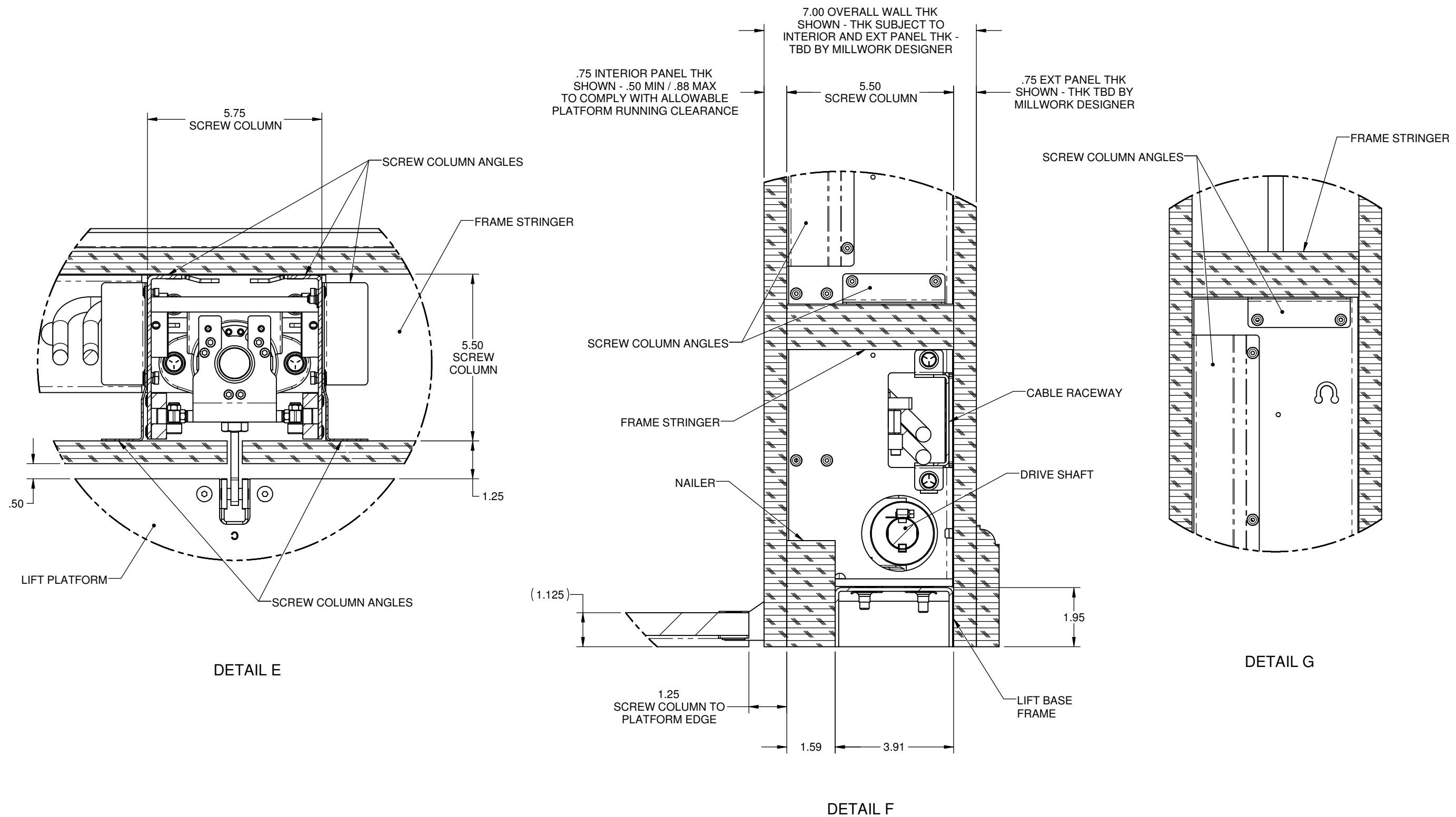
SECTION B-B



SECTION C-C

SECTION D-D


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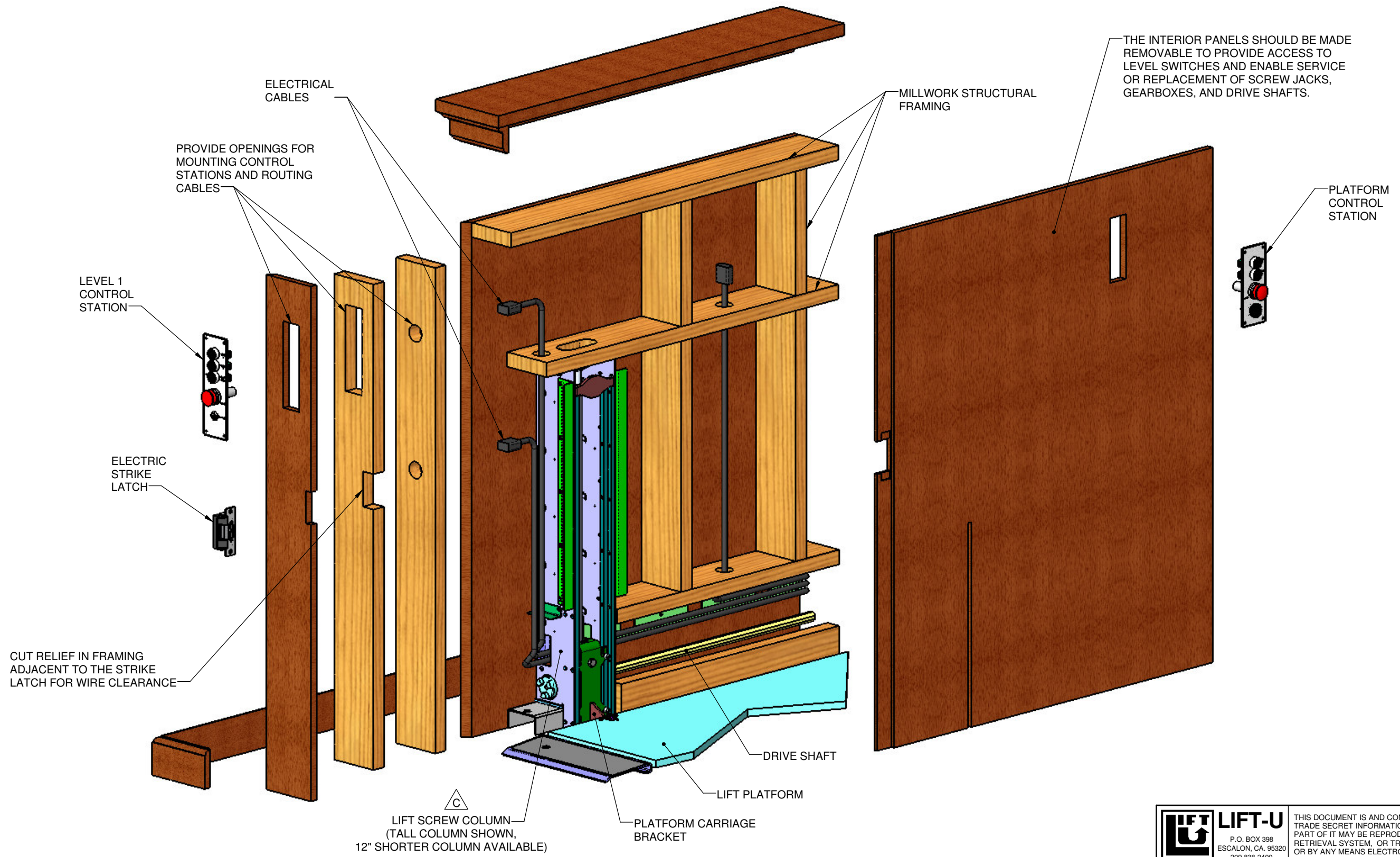


DETAIL E


DETAIL F

DETAIL G

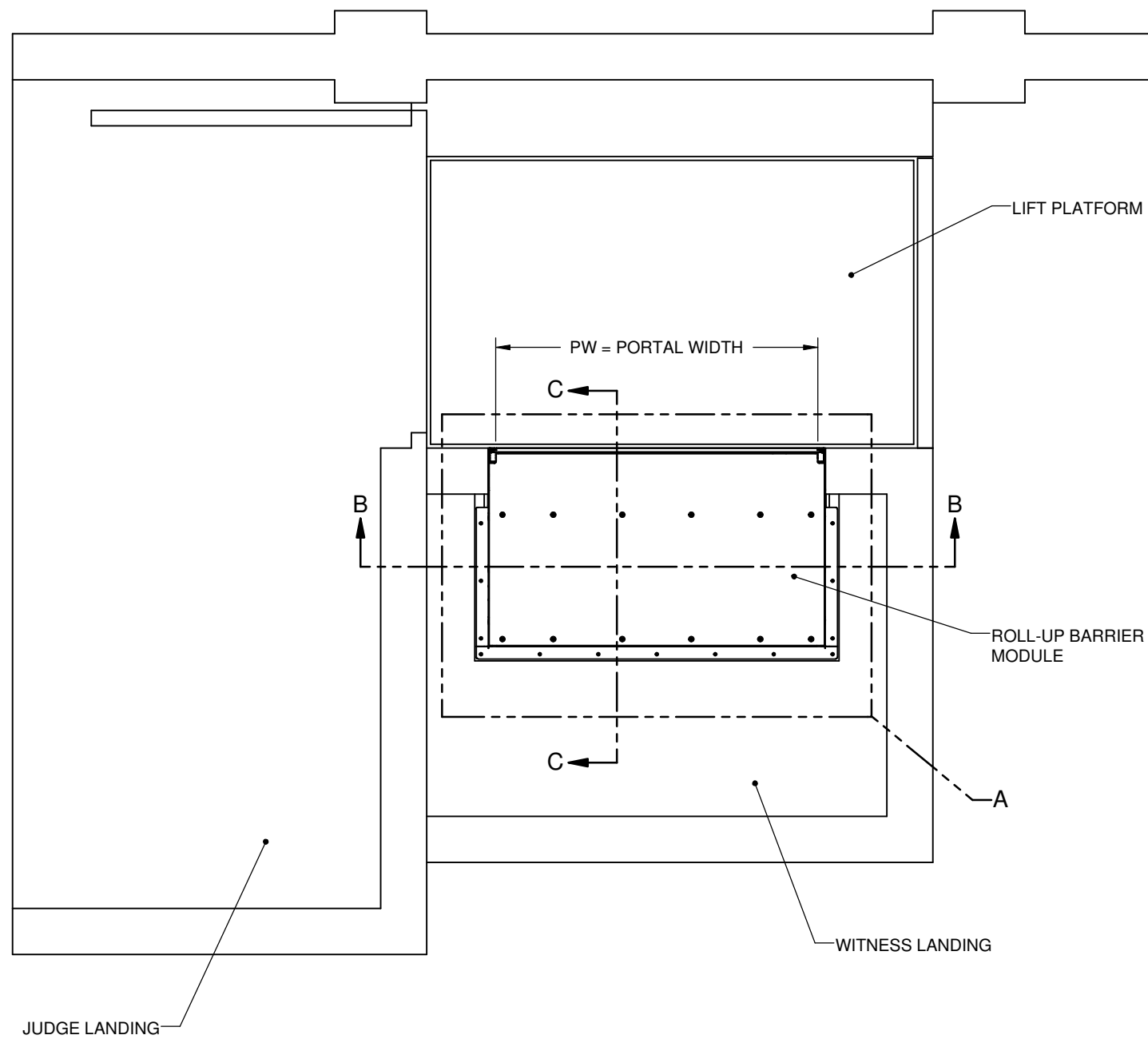
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DOCUMENT NO. 910-0026	SHEET NO. 3 OF 4	REVISION C



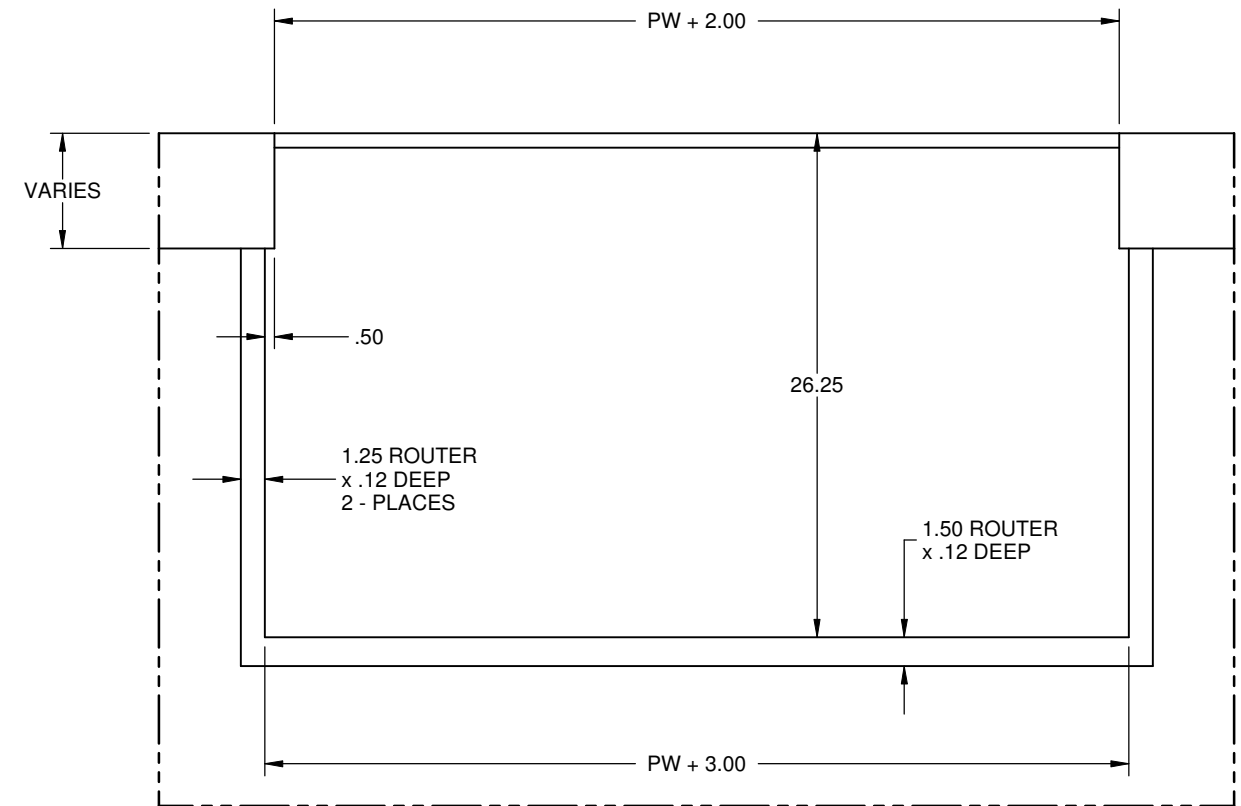
PERSPECTIVE VIEW OF WALL SEGMENT

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REVISION C	

REVISIONS									
LTR	ECO	APPD	DATE	DESCRIPTION	DFTR	DATE	CHKR	DATE	
A				RELEASED	CAL	7/7/2006			
B				UPDATED PER CURRENT DESIGN	WAC	10/14/2011			



PLAN VIEW



DETAIL A
FLOOR OPENING AND PREP TO
ACCOMMODATE ROLL-UP BARRIER MODULE

NOTES:

THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED ROLL-UP BARRIER / MILLWORK INTERFACE.

THE ROLL-UP BARRIER PORTAL WIDTH, VERTICAL GUIDES, AND EXTENDED BARRIER HEIGHT WILL VARY FOR EACH APPLICATION. THEREFORE, FOR EACH PROJECT APPLICATION REFER TO ITS CORRESPONDING LIFT CONFIGURATION DRAWING FOR GENERAL ARRANGEMENT LAYOUT, LIFT ENVELOPE DIMENSIONS, AND ROLL-UP BARRIER MODULE DIMENSIONS.

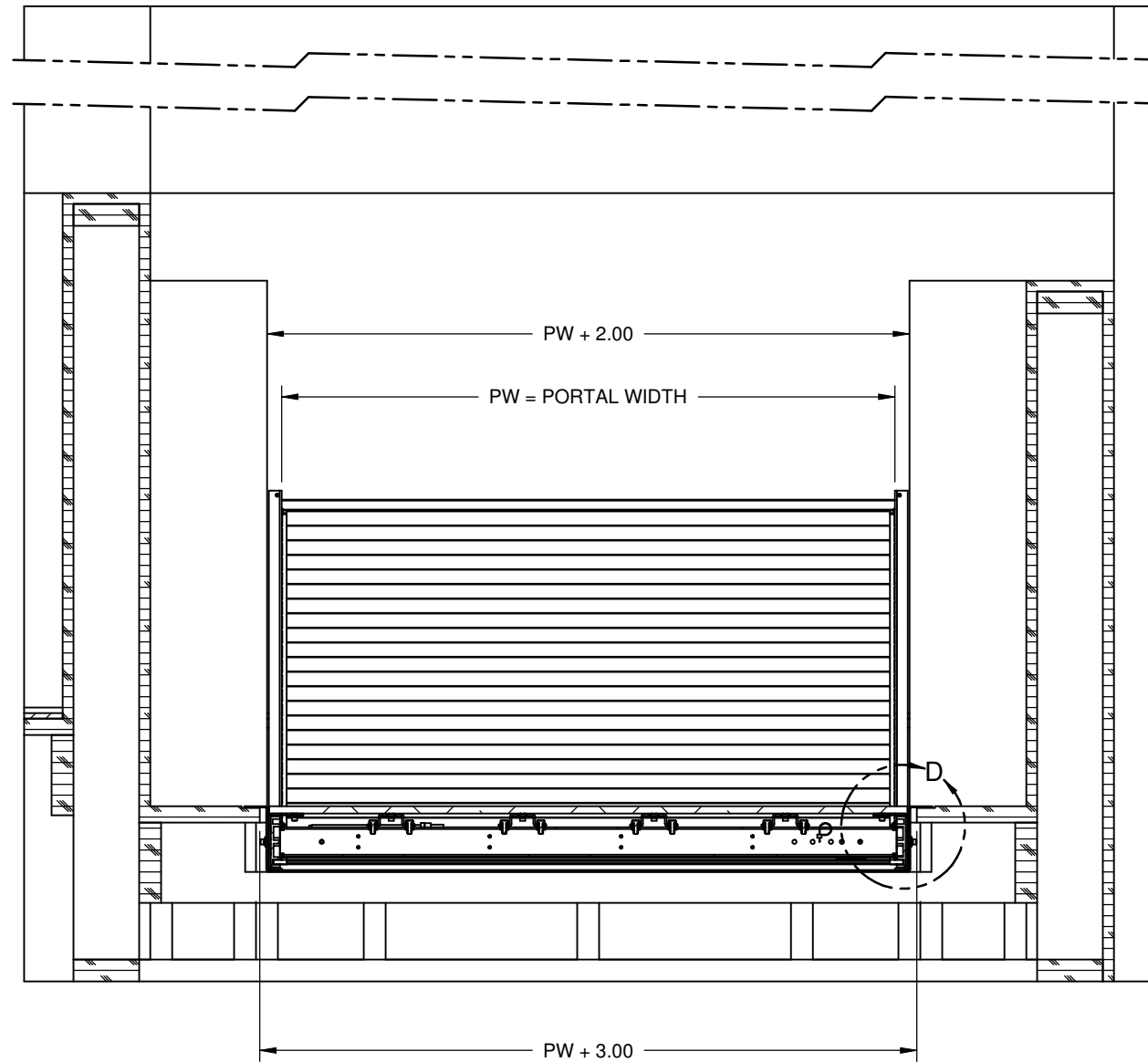
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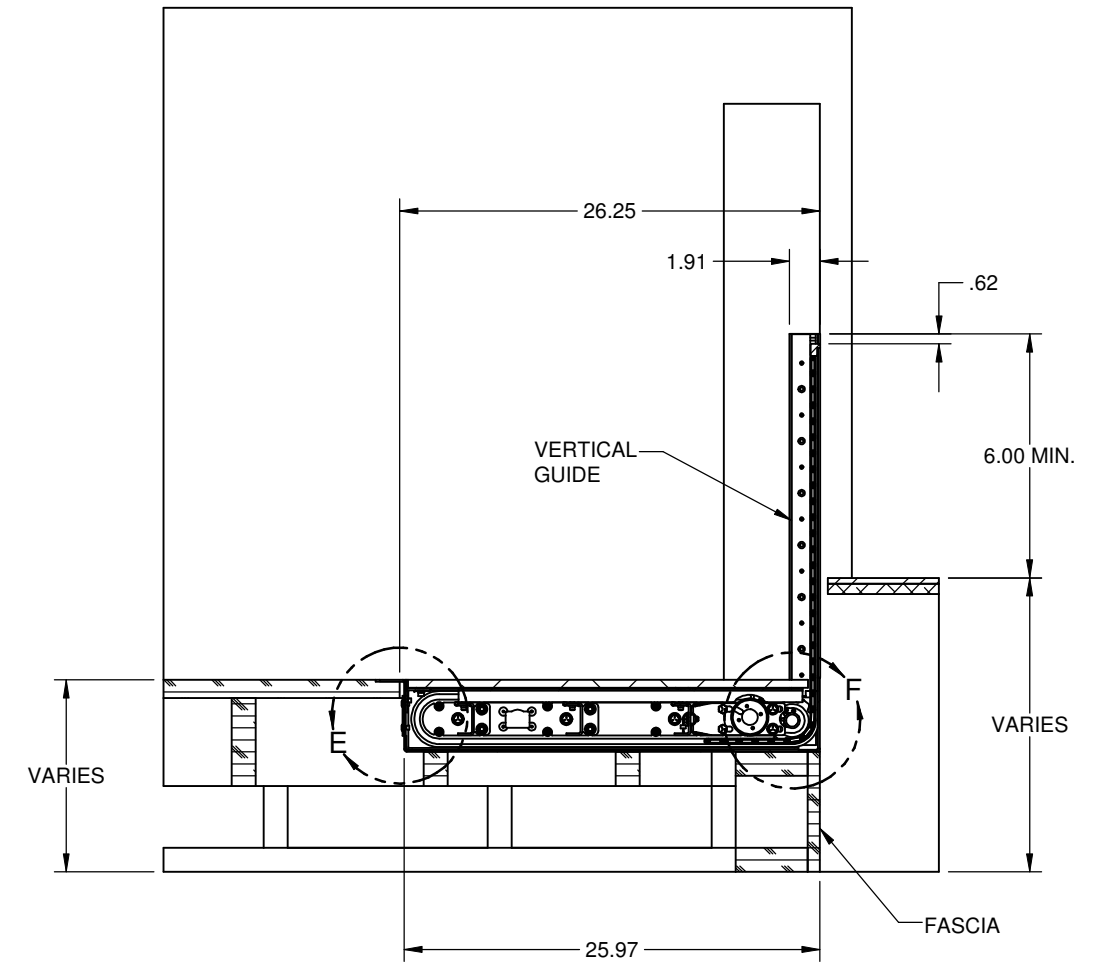
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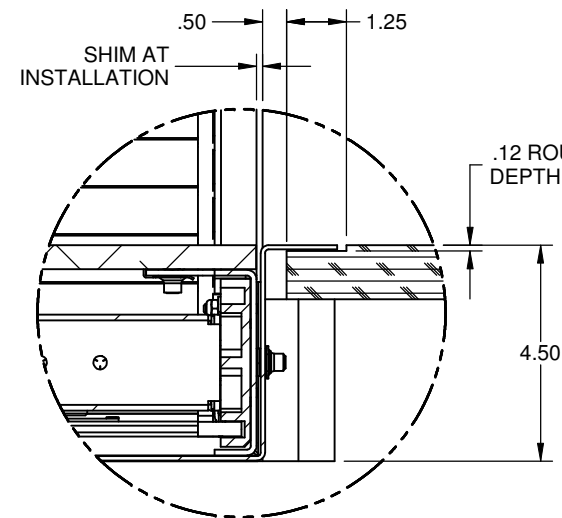
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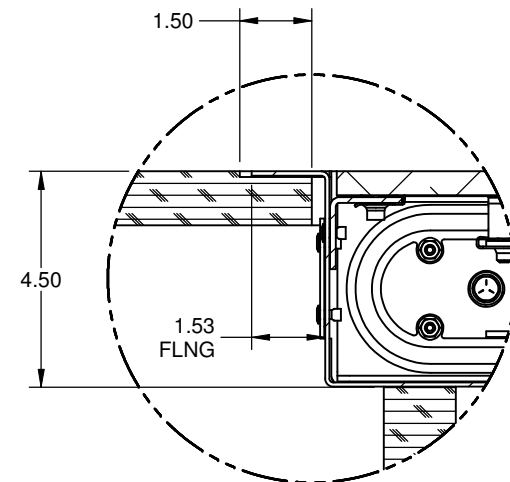
SECTION B-B



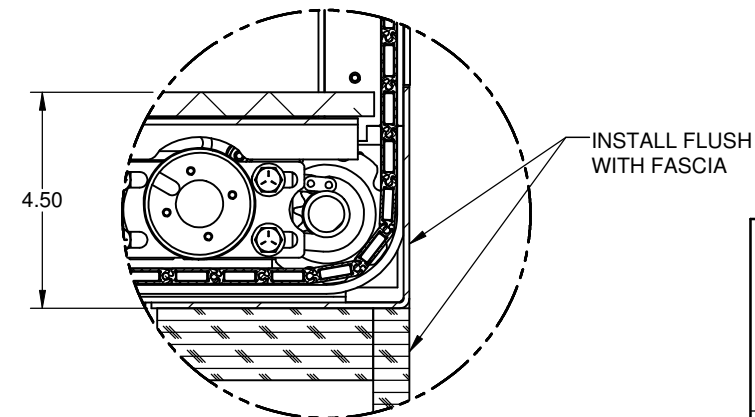
SECTION C-C



DETAIL D



DETAIL E



DETAIL F



A DIVISION OF
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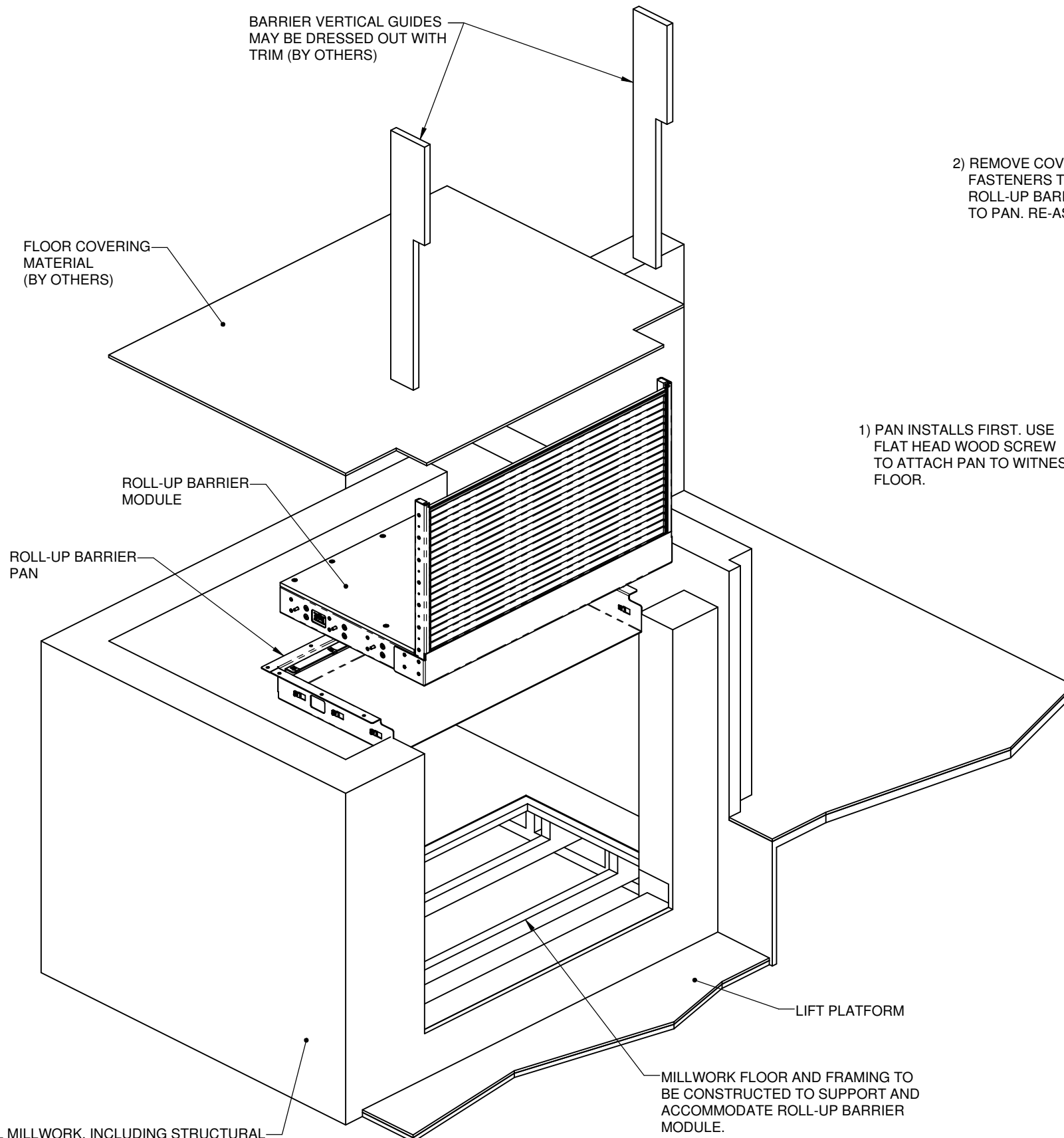
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TITLE **ROLL-UP BARRIER / MILLWORK INTERFACE**

DOCUMENT NO. **910-0042**

SHEET NO. **2 OF 3**

REVISION **B**

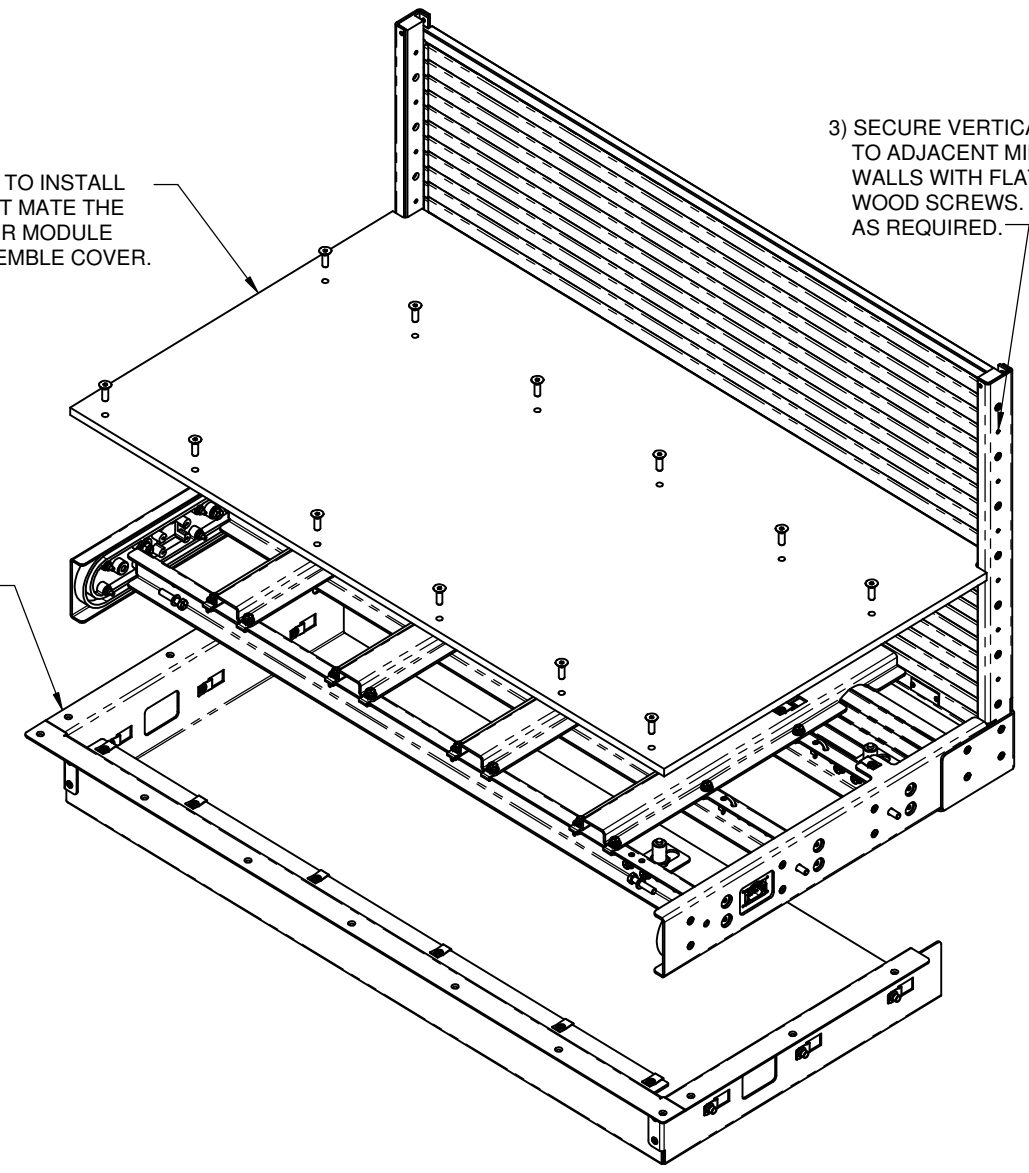


ALL MILLWORK, INCLUDING STRUCTURAL FRAMING AND VENEERED PANEL FINISHES, ARE BY OTHERS.

PERSPECTIVE VIEW

2) REMOVE COVER TO INSTALL FASTENERS THAT MATE THE ROLL-UP BARRIER MODULE TO PAN. RE-ASSEMBLE COVER.

1) PAN INSTALLS FIRST. USE FLAT HEAD WOOD SCREW TO ATTACH PAN TO WITNESS FLOOR.



ROLL-UP BARRIER MODULE INSTALLATION SEQUENCE



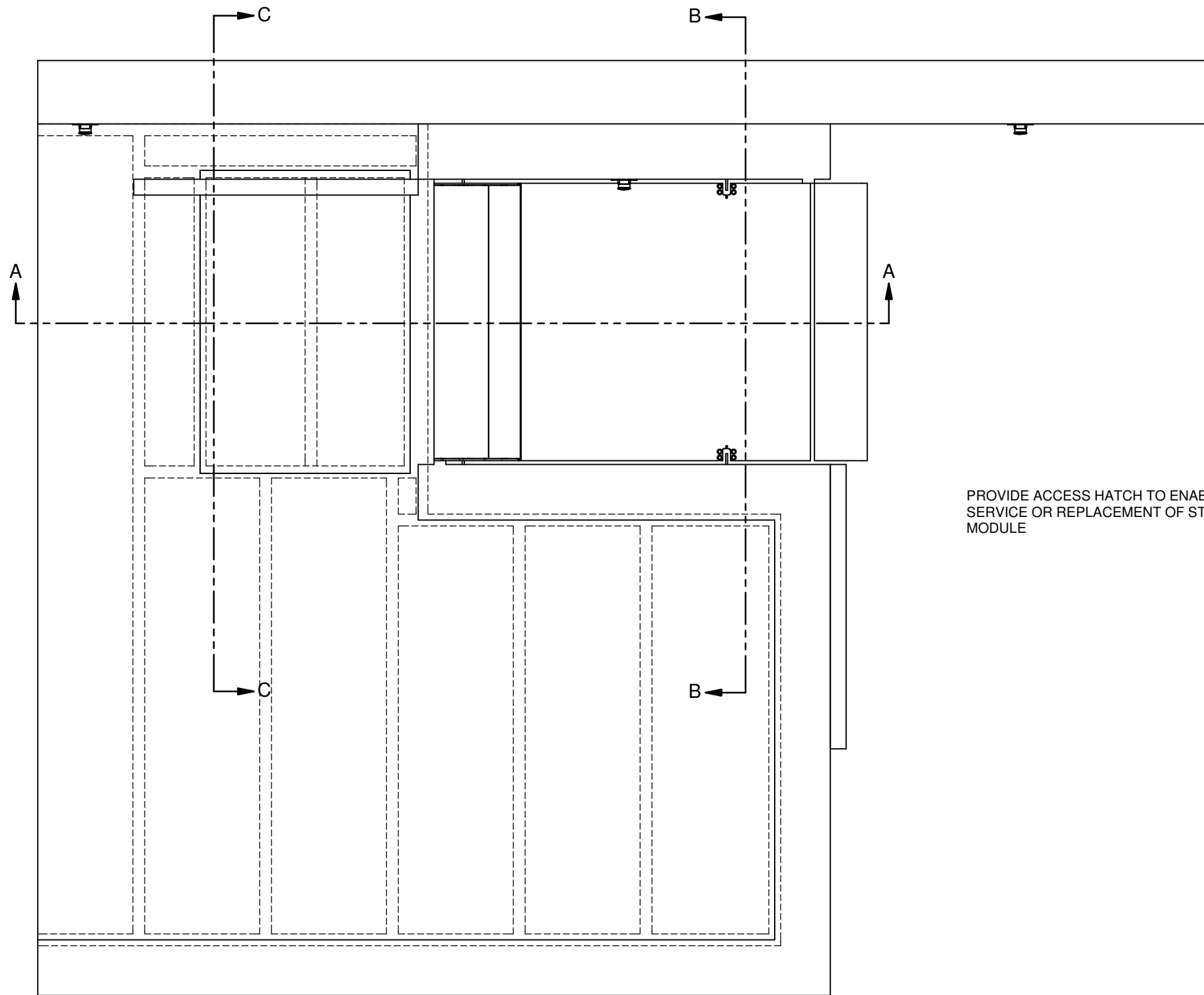
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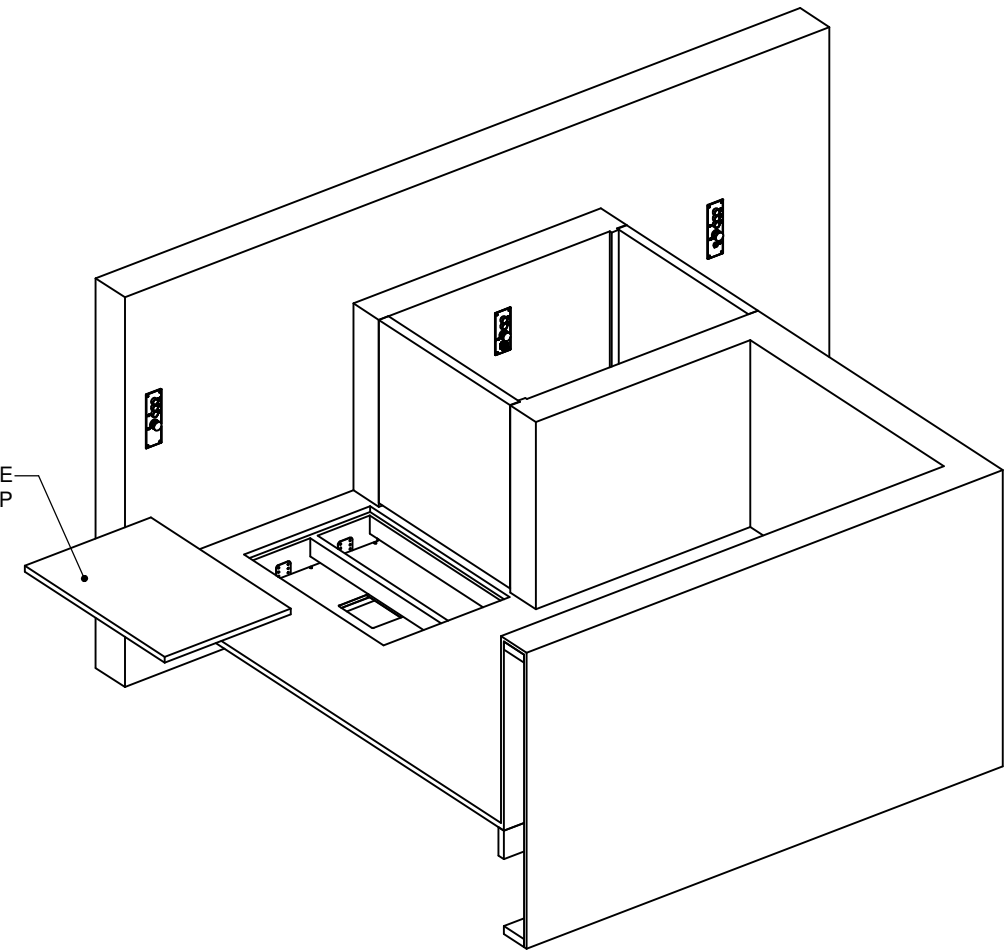
TITLE ROLL-UP BARRIER / MILLWORK INTERFACE

DOCUMENT NO.	910-0042	SHEET NO.	3 OF 3	REVISION	B
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REVISIONS									
LTR	ECO	APPD	DATE	DESCRIPTION	DFTR	DATE	CHKR	DATE	
A				RELEASED	CAL	8/28/2007			
B				UPDATED PER CURRENT STEP DESIGN	BSA	9/20/2011			



PLAN VIEW



PERSPECTIVE VIEW

NOTES:

THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED RETRACTABLE STEP MODULE / MILLWORK INTERFACE.

THE RETRACTABLE STEP MODULE HEIGHT AND WIDTH WILL VARY FOR EACH APPLICATION. THEREFORE, FOR EACH PROJECT REFER TO ITS CORRESPONDING LIFT CONFIGURATION DRAWING FOR GENERAL ARRANGEMENT LAYOUT, LIFT ENVELOPE DIMENSIONS, AND STEP MODULE DIMENSIONS.

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT, AND FLOOR JOIST FRAMING USED TO FASTEN AND SUPPORT THE STEP MODULE ARE FURNISHED AND INSTALLED BY OTHERS.



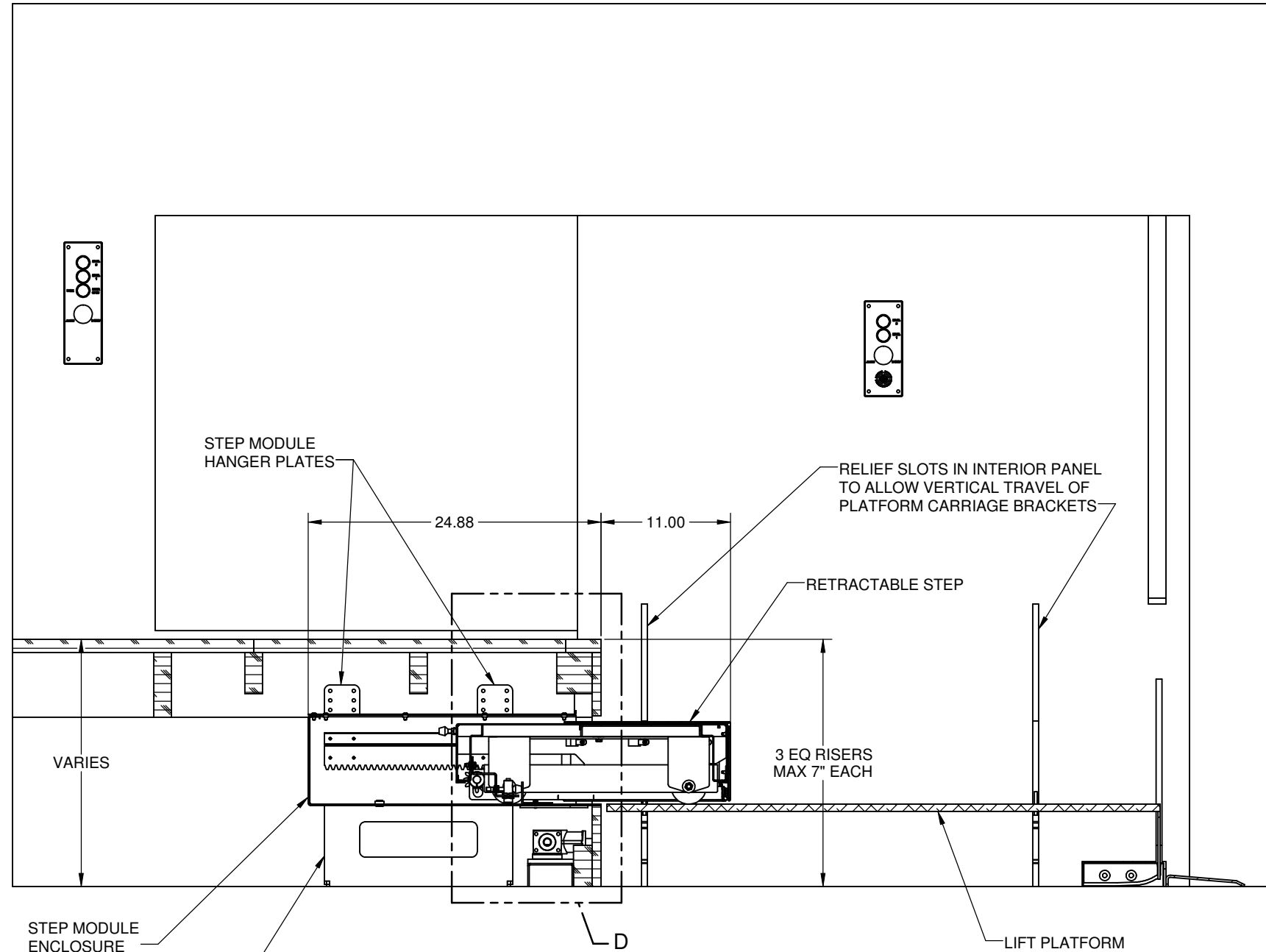
LIFT-U
 P.O. BOX 398
 ESCALON, CA. 95320
 209-838-2400

A DIVISION OF
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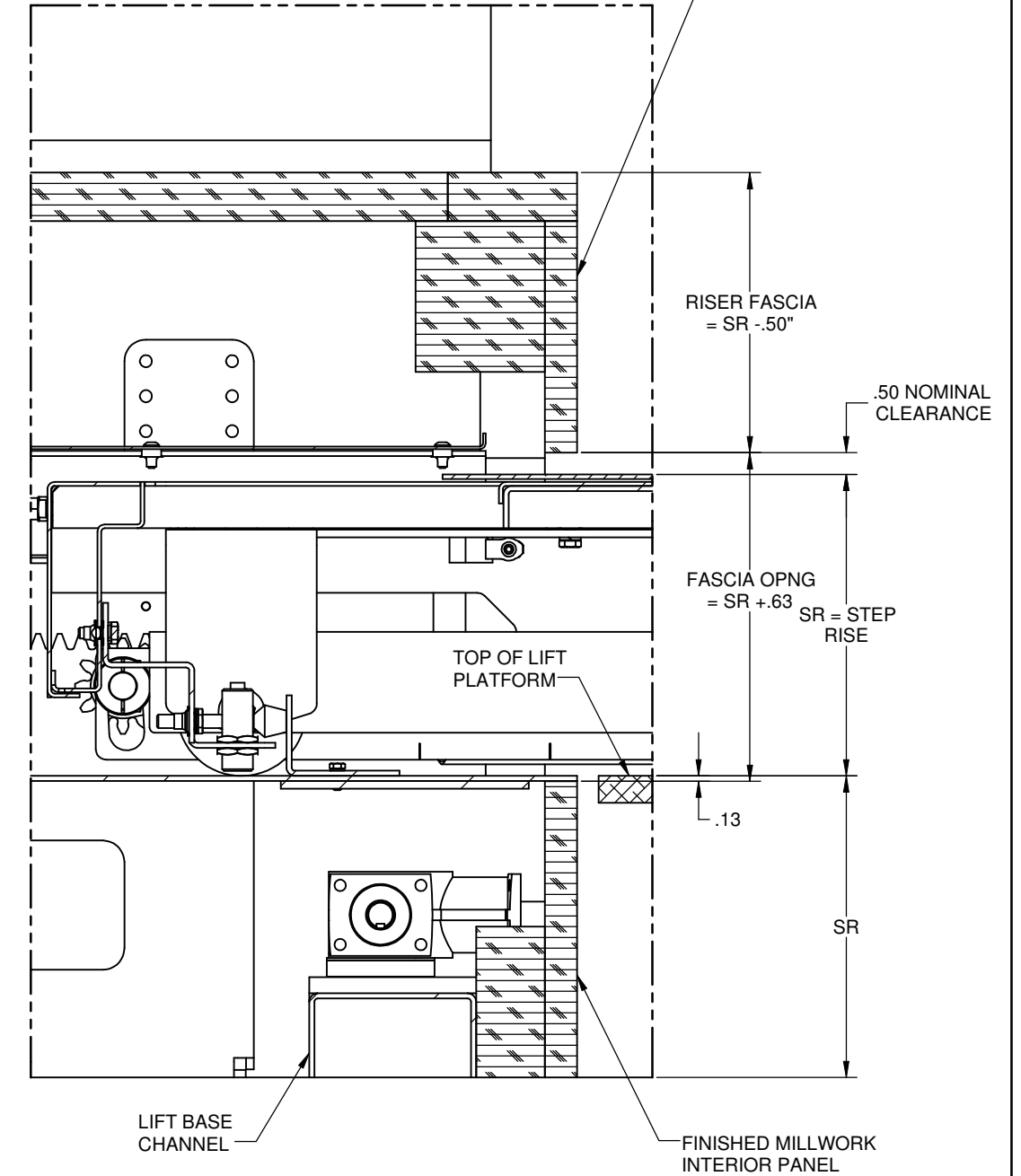
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TITLE STEP MODULE / MILLWORK INTERFACE			
DOCUMENT NO.	910-0054	SHEET NO.	1 OF 4
		REVISION	B

RISER FASCIA SHOULD BE MADE
REMOVABLE TO ENABLE SERVICE
OR REPLACEMENT OF STEP MODULE



SECTION A-A



DETAIL D

STEP MODULE ENCLOSURE
STEP MODULE SUPPORT BRACKET (IF APPLICABLE)

STEP MODULE HANGER PLATES

24.88

11.00

RELIEF SLOTS IN INTERIOR PANEL TO ALLOW VERTICAL TRAVEL OF PLATFORM CARRIAGE BRACKETS

RETRACTABLE STEP

3 EQ RISERS MAX 7" EACH

VARIES

LIFT PLATFORM

RISER FASCIA = SR - .50"

.50 NOMINAL CLEARANCE

FASCIA OPNG = SR + .63
SR = STEP RISE

TOP OF LIFT PLATFORM

.13

SR

LIFT BASE CHANNEL

FINISHED MILLWORK INTERIOR PANEL

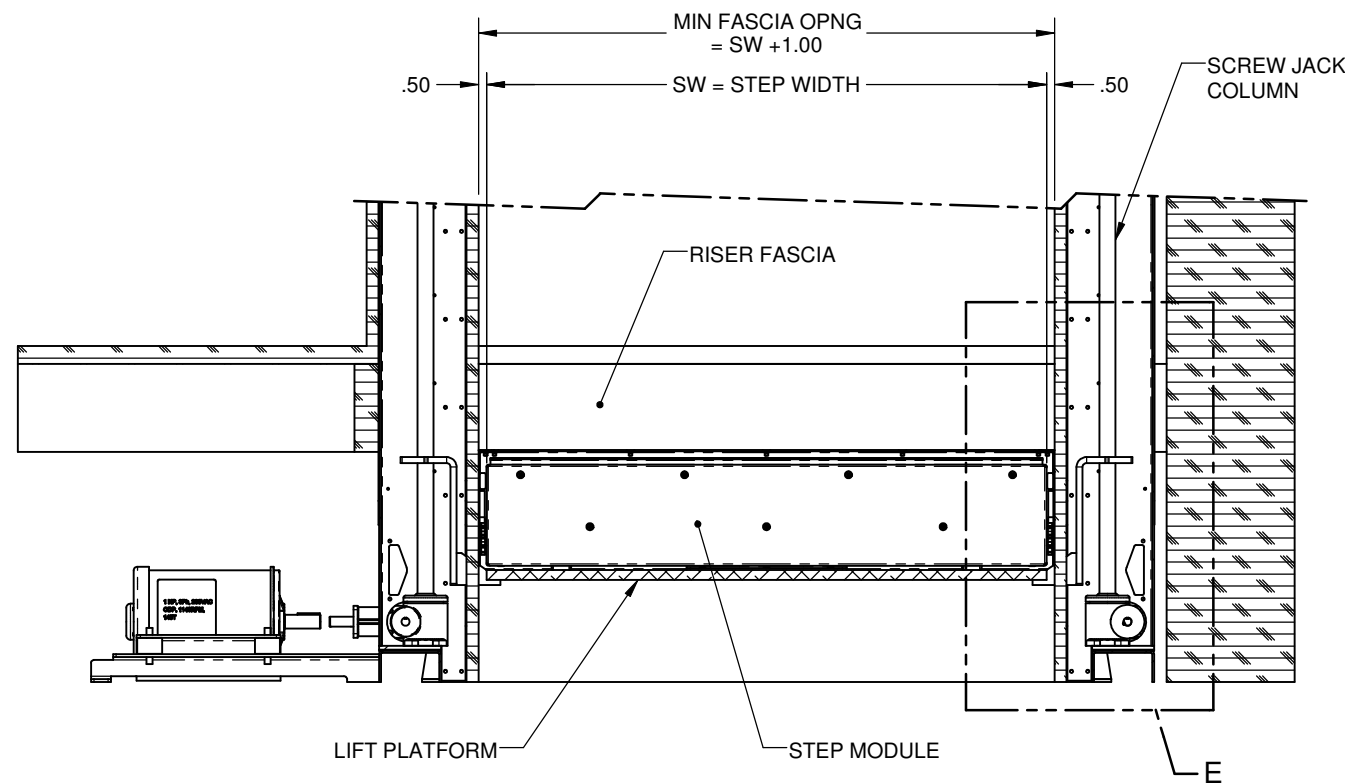


A DIVISION OF
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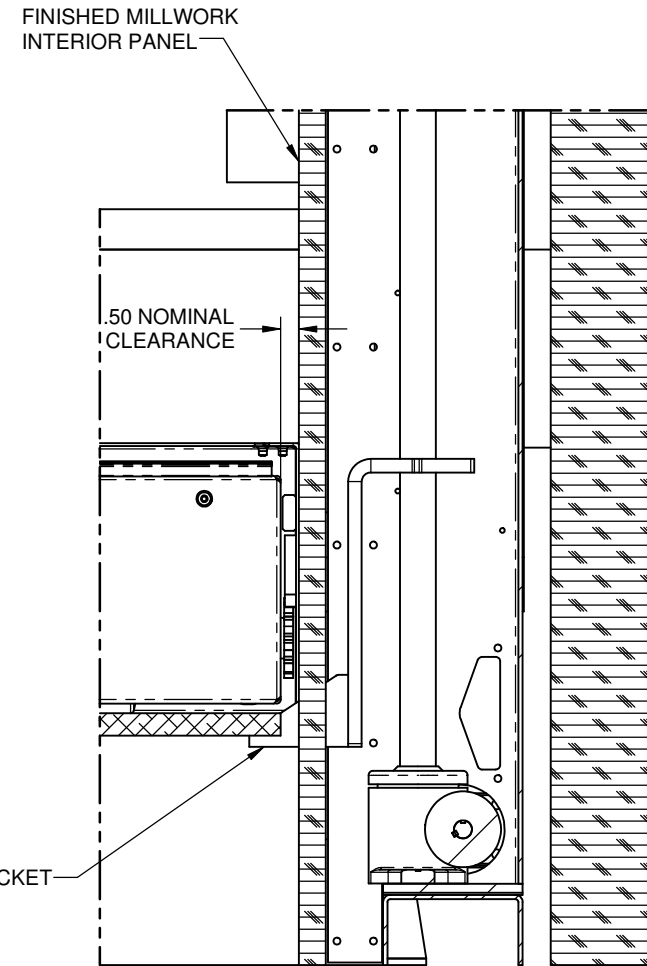
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TITLE STEP MODULE / MILLWORK INTERFACE

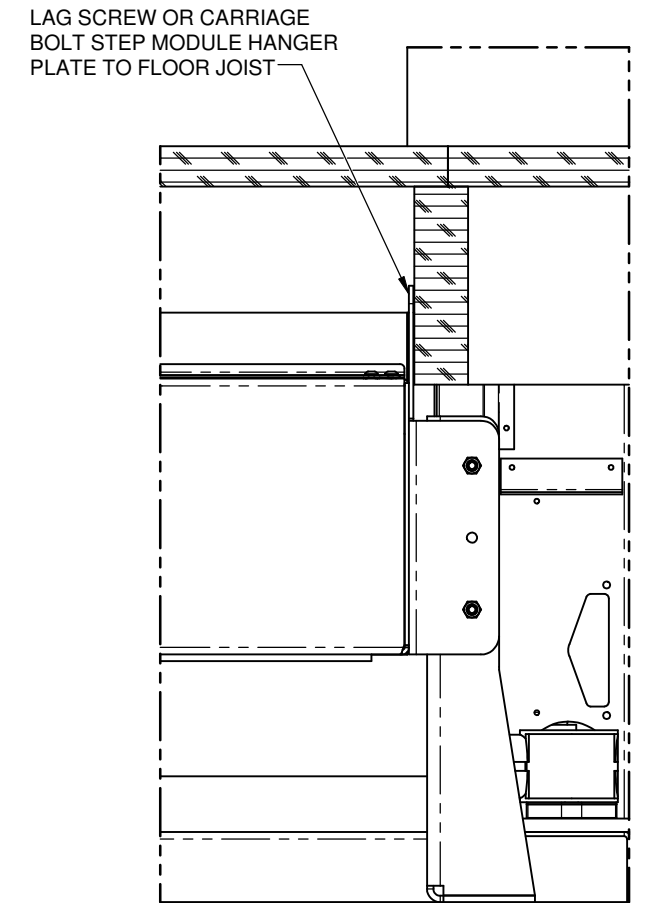
DOCUMENT NO.	910-0054	SHEET NO.	2 OF 4	REVISION	B
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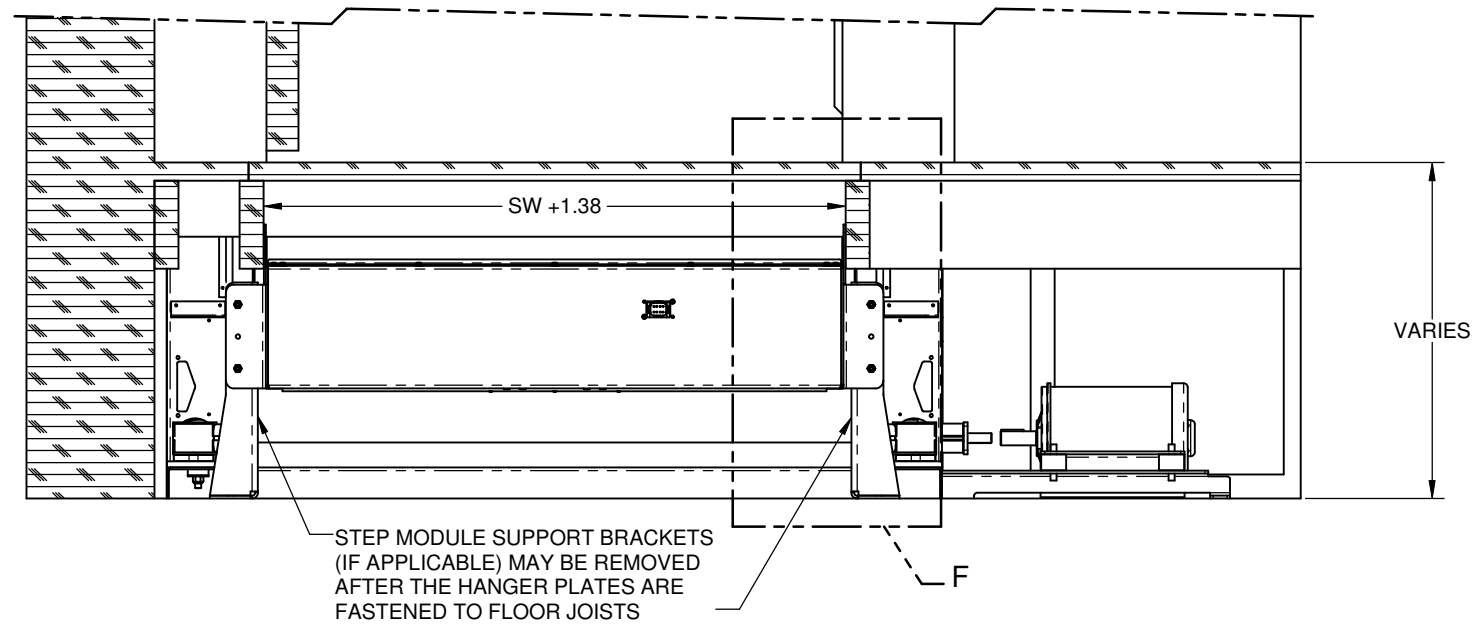
SECTION B-B




DETAIL E

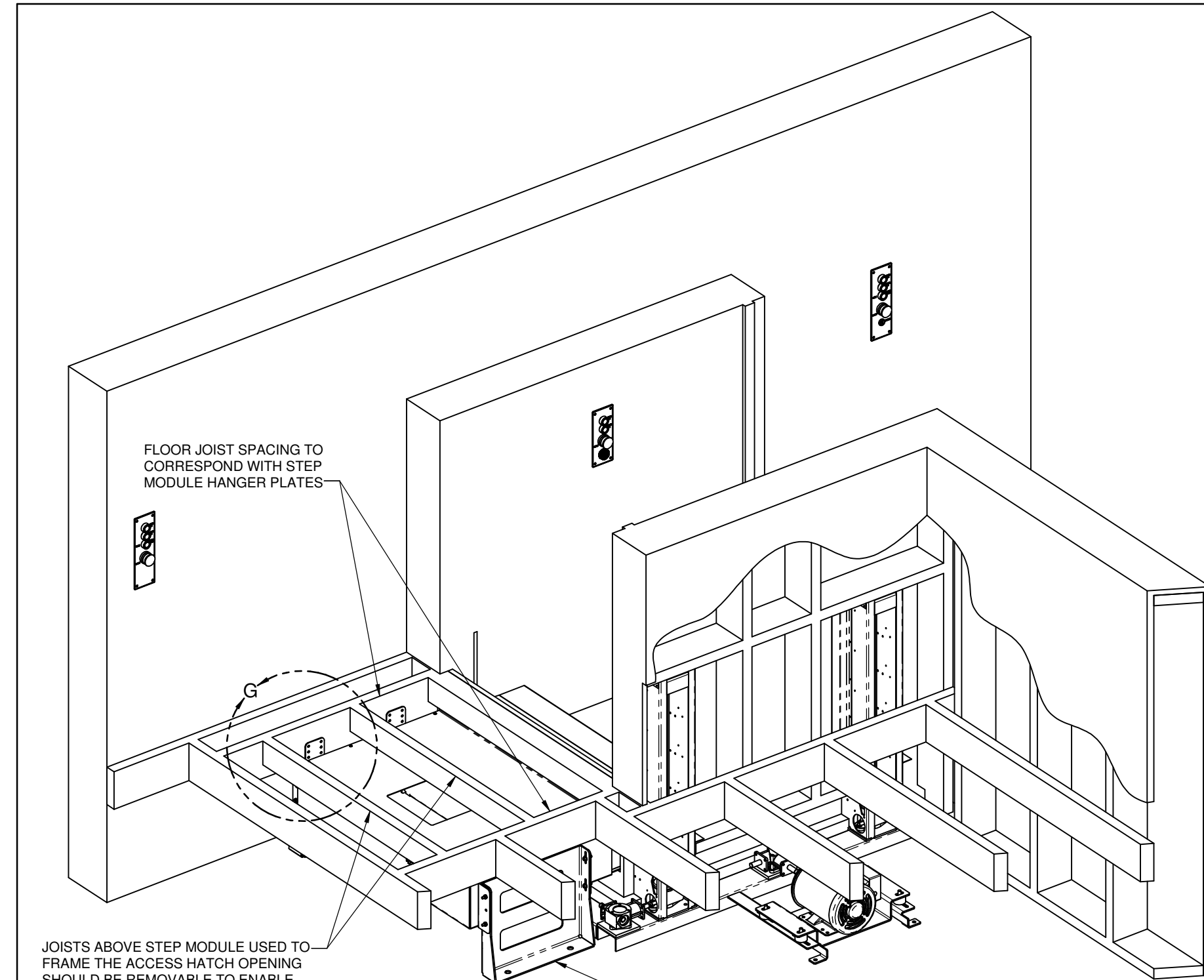


DETAIL F



SECTION C-C

 LIFT-U P.O. BOX 398 ESCALON, CA. 95320 209-838-2400	THIS DOCUMENT IS AND CONTAINS CONFIDENTIAL TRADE SECRET INFORMATION OF THE COMPANY. NO PART OF IT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONICALLY, PHOTOCOPYING, RECORDING OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF HOGAN MFG., INC. THIS DOCUMENT IS LOANED FOR THE LIMITED PURPOSES STATED HEREIN ONLY, AND REMAINS THE PROPERTY OF THE COMPANY.
	A DIVISION OF HOGAN MFG., INC.
TITLE STEP MODULE / MILLWORK INTERFACE	
DOCUMENT NO. 910-0054	SHEET NO. 3 OF 4
	REVISION B

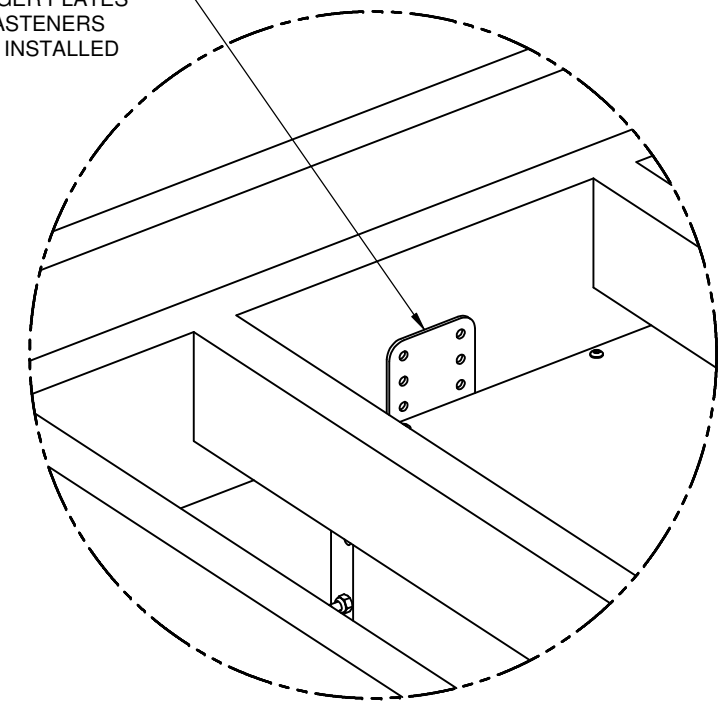


FLOOR JOIST SPACING TO CORRESPOND WITH STEP MODULE HANGER PLATES

JOISTS ABOVE STEP MODULE USED TO FRAME THE ACCESS HATCH OPENING SHOULD BE REMOVABLE TO ENABLE SERVICE AND REPLACEMENT OF STEP MODULE


THE STEP MODULE IS SUSPENDED BELOW THE UPPER LANDING FLOOR BY FASTENING THE HANGER PLATES (INCLUDED WITH THE STEP MODULE) TO FLOOR JOISTS. ALTERNATIVELY, SUPPORT BRACKETS (INCLUDED WITH MOST APPLICATIONS), WHICH ARE INTENDED TO FACILITATE INSTALLATION OF THE STEP MODULE BEFORE THE MILLWORK IS COMPLETE, MAY BE MADE PERMANENT BY ANCHORING TO THE FLOOR, BUT MUST ALSO BE SECURED Laterally FOR STABILITY; i.e., BRACE TO ADJACENT STRUCTURE OR UTILIZE HANGER CONNECTION TO FLOOR JOISTS. LIFT-U FURNISHES THE ANCHOR BOLTS TO EXERCISE THIS OPTION.

PREFERRED ATTACHMENT: LAG SCREW OR CARRIAGE BOLT STEP MODULE HANGER PLATES TO FLOOR JOIST. FASTENERS ARE SUPPLIED AND INSTALLED BY OTHERS.

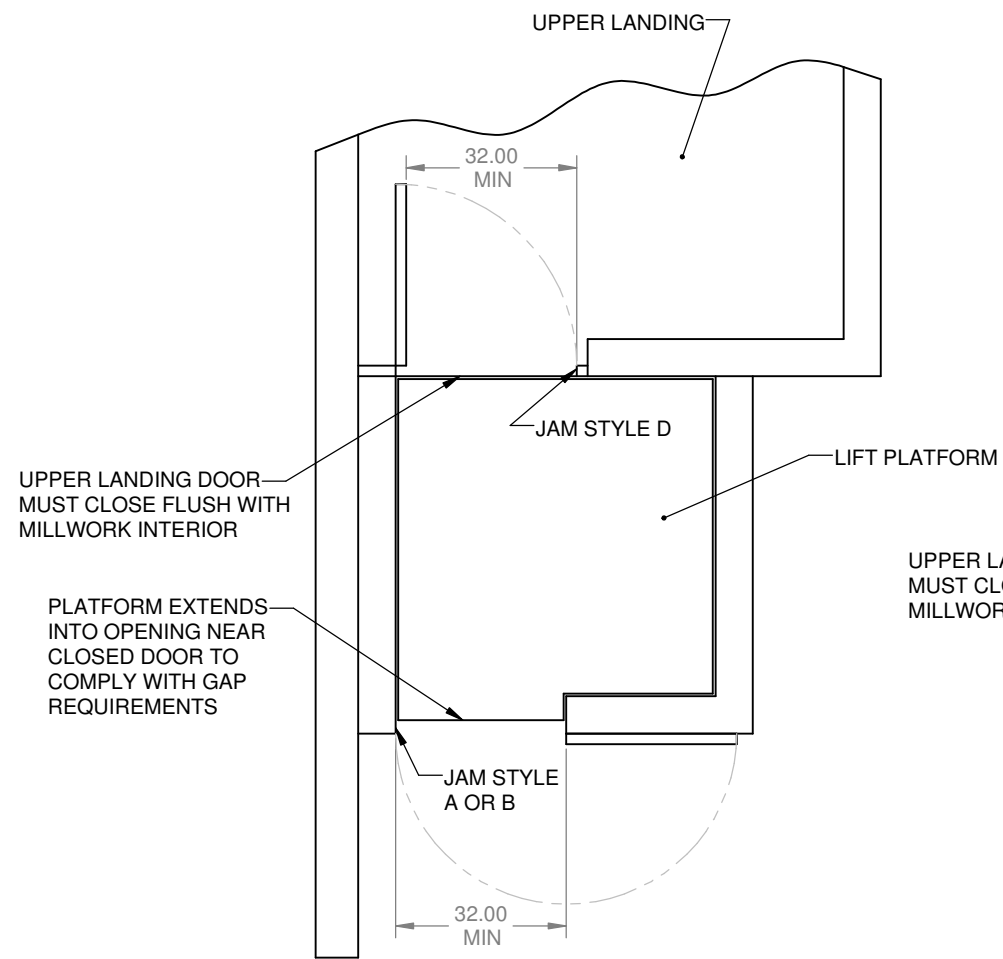


DETAIL G

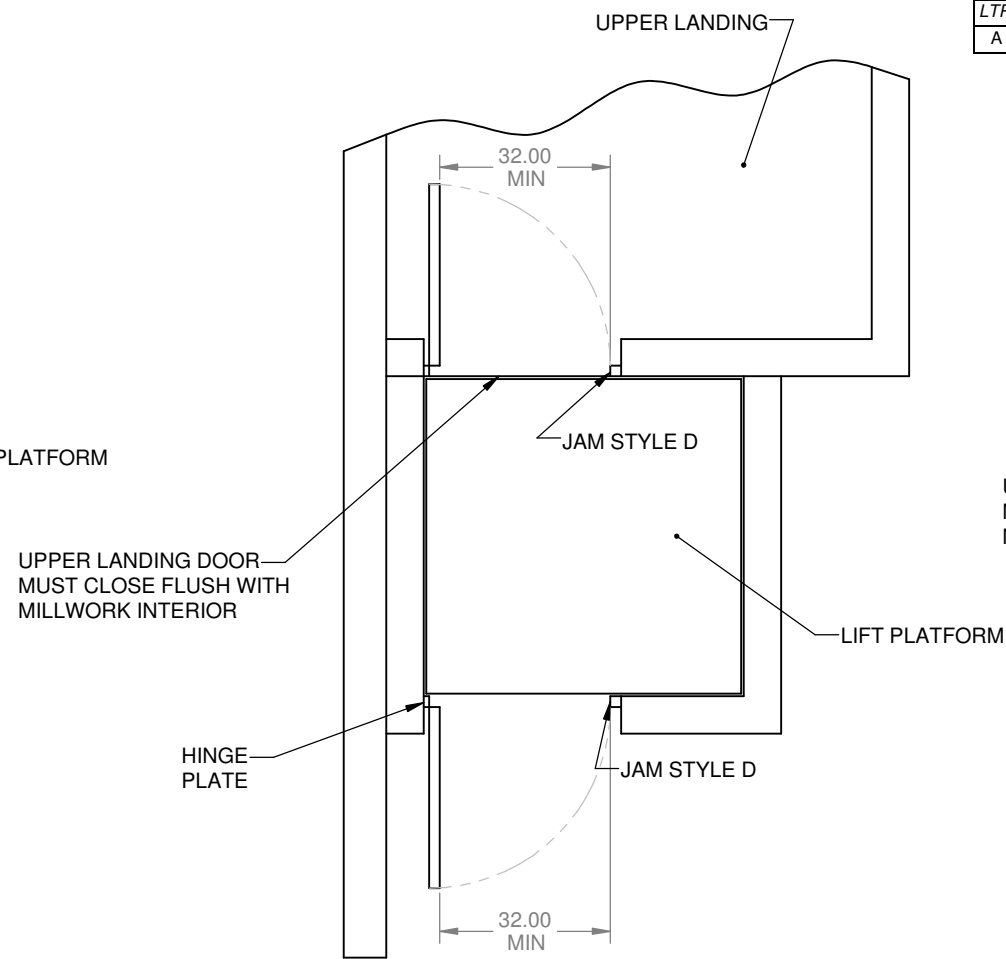
PARTIAL PERSPECTIVE VIEW
w/ MILLWORK CUT AWAY AND SUB-FLOOR HIDDEN TO ILLUSTRATE FRAMING CONCEPT

 LIFT-U P.O. BOX 398 ESCALON, CA. 95320 209-838-2400	THIS DOCUMENT IS AND CONTAINS CONFIDENTIAL TRADE SECRET INFORMATION OF THE COMPANY. NO PART OF IT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONICALLY, PHOTOCOPYING, RECORDING OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF HOGAN MFG., INC. THIS DOCUMENT IS LOANED FOR THE LIMITED PURPOSES STATED HEREIN ONLY, AND REMAINS THE PROPERTY OF THE COMPANY.
	A DIVISION OF HOGAN MFG., INC.
TITLE STEP MODULE / MILLWORK INTERFACE	
DOCUMENT NO. 910-0054	SHEET NO. 4 OF 4
REVISION B	

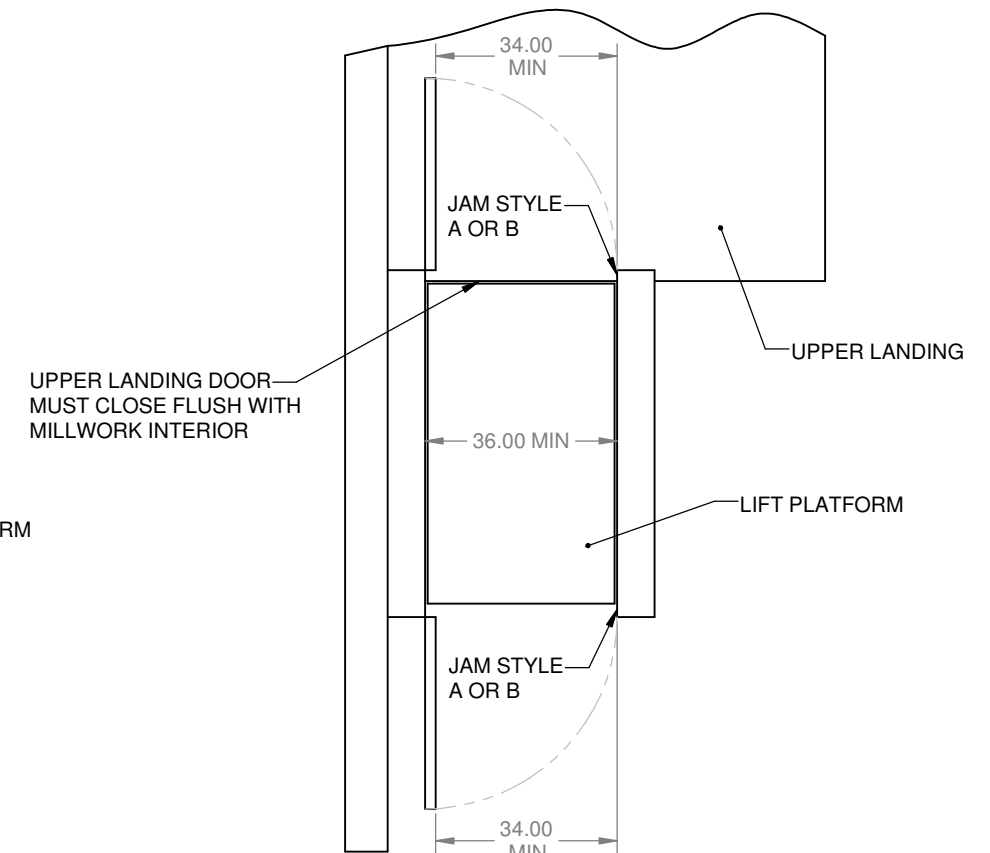
REVISIONS								
LTR	ECO	APPD	DATE	DESCRIPTION	DFTR	DATE	CHKR	DATE
A				RELEASED	CAL	9/5/2007		



LOWER LANDING DOOR CLOSSES FLUSH WITH MILLWORK EXTERIOR - HINGES 180°



LOWER LANDING DOOR CLOSSES FLUSH WITH MILLWORK INTERIOR - HINGES 90°



LOWER LANDING DOOR CLOSSES FLUSH WITH MILLWORK EXTERIOR - HINGES 90°

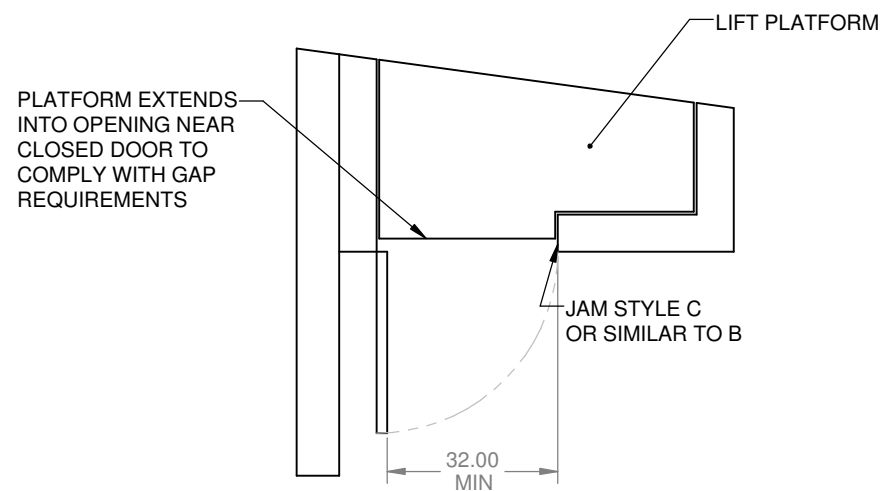
NOTES:

THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED DOOR / MILLWORK INTERFACE ALTERNATIVES. FOR EACH PROJECT APPLICATION REFER TO ITS CORRESPONDING LIFT CONFIGURATION DRAWING FOR GENERAL ARRANGEMENT AND LIFT ENVELOPE DIMENSIONS.

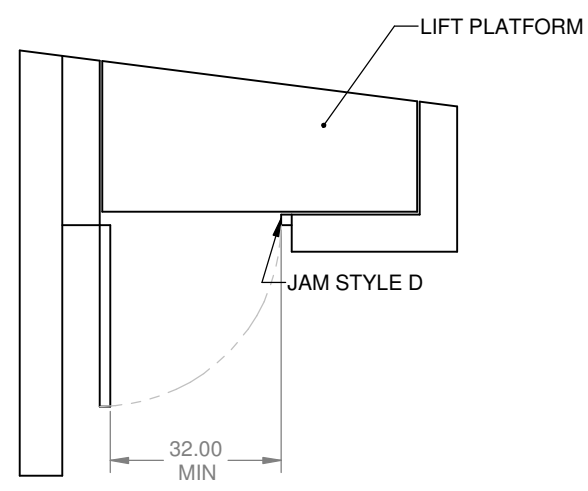
REFER TO DRAWING 910-0056 FOR THE RECOMMENDED JAM STYLES NOTED ON THIS DRAWING, AND FOR STRIKE LATCH / MILLWORK INTERFACE.

THE LIFT PLATFORM REQUIRES 3/8" MINIMUM TO 3/4" MAXIMUM RUNNING CLEARANCE WITH ALL ADJACENT SURFACES; i.e., CLOSED DOORS AND MILLWORK FINISHED SURFACES.

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT, AS WELL AS DOORS / GATES AND JAMS ARE FURNISHED AND INSTALLED BY OTHERS.



LOWER LANDING DOOR CLOSSES FLUSH WITH MILLWORK EXTERIOR - HINGES 90°



LOWER LANDING DOOR CLOSSES FLUSH WITH MILLWORK INTERIOR - HINGES 90°

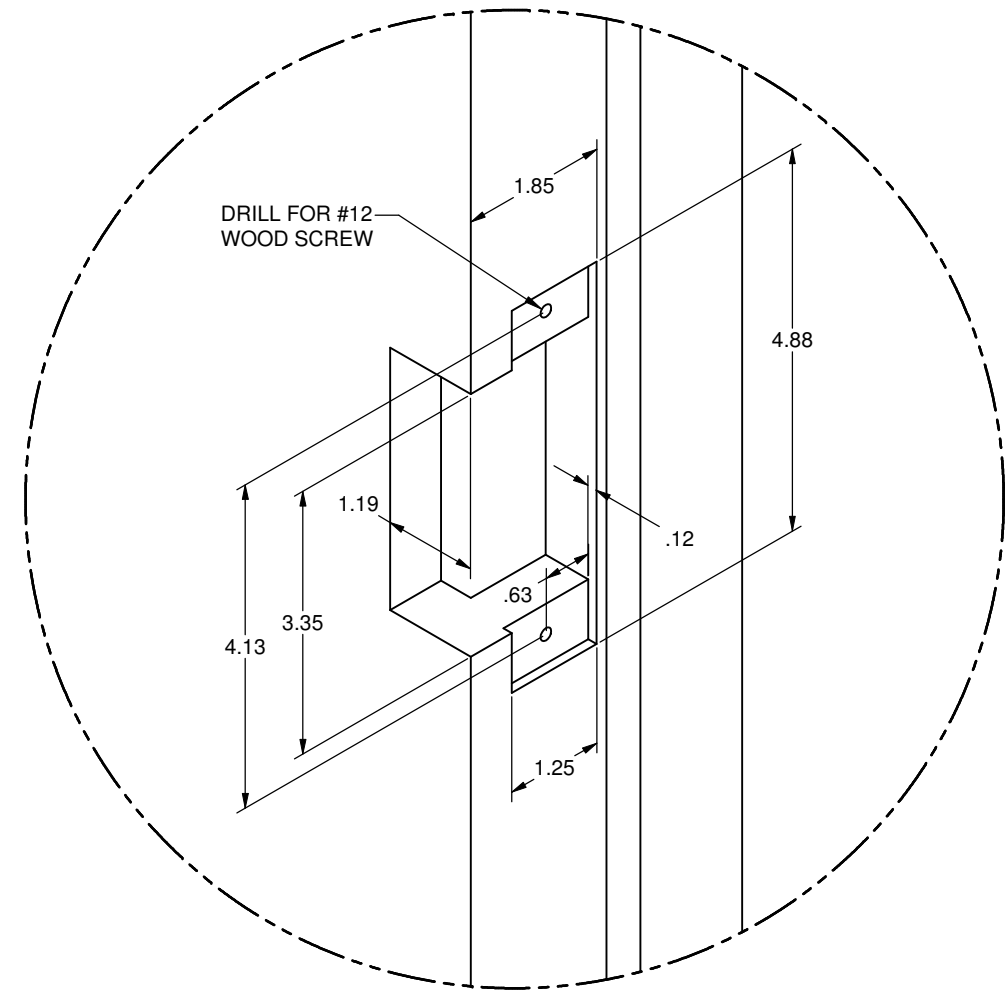
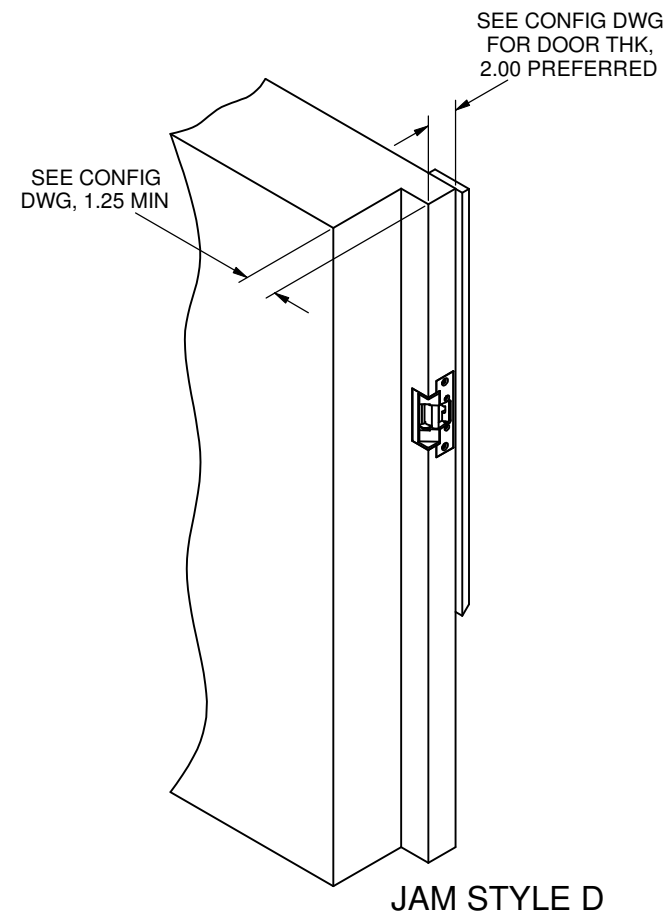
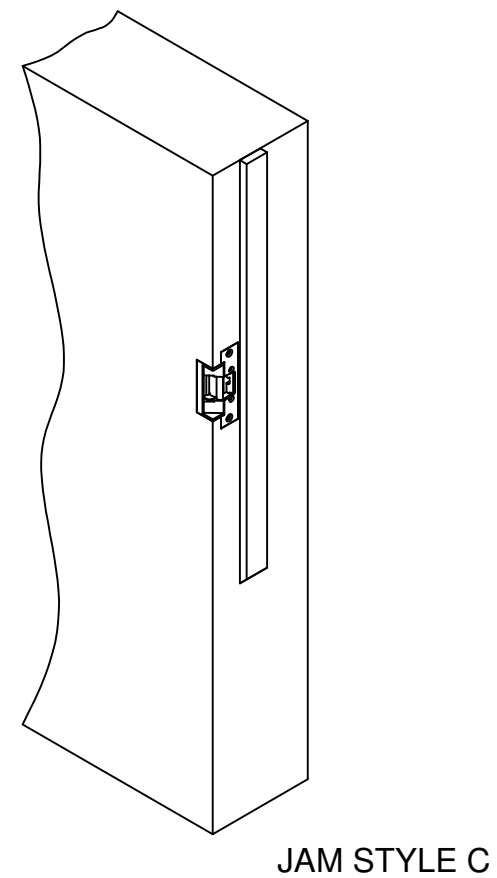
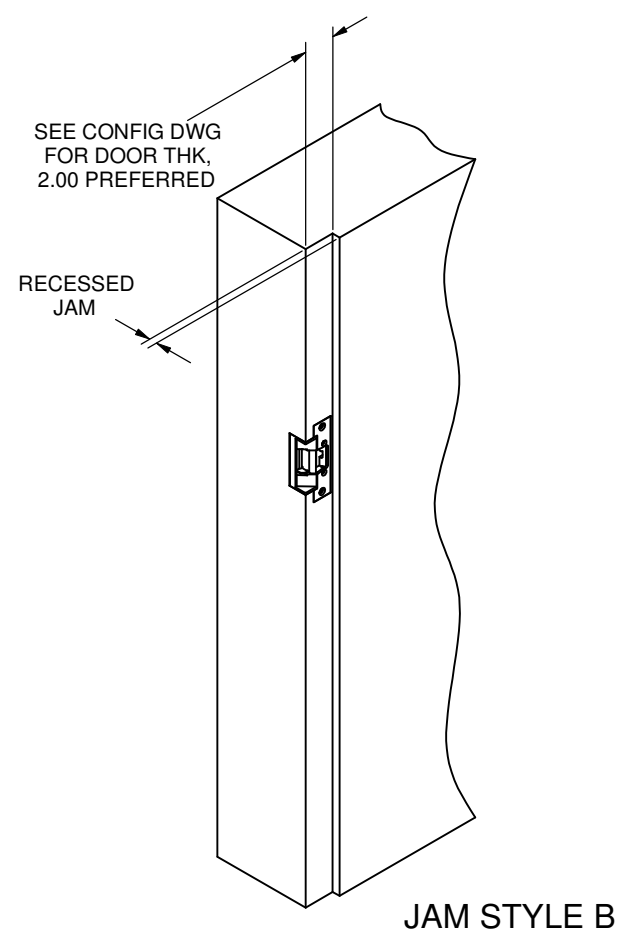
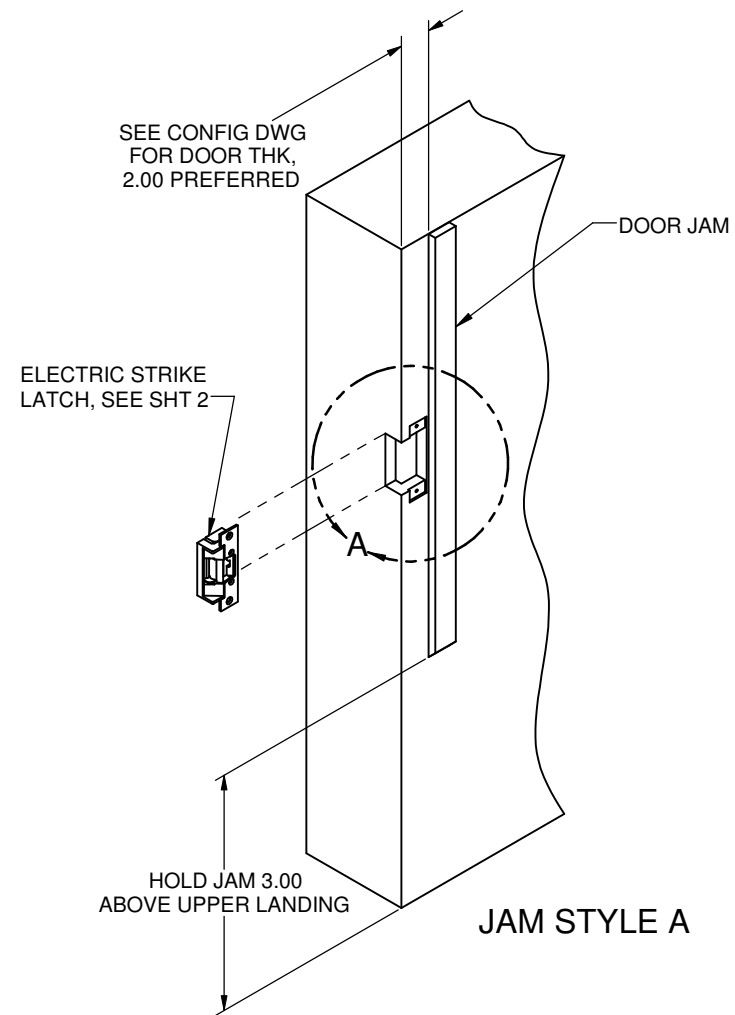


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TITLE	DOOR SET-UP ALTERNATIVES		
DOCUMENT NO.	910-0055	SHEET NO.	1 OF 1
		REVISION	A

REVISIONS								
LTR	ECO	APPD	DATE	DESCRIPTION	DFTR	DATE	CHKR	DATE
A				RELEASED	CAL	9/6/2007		
B				ADDED STRIKE LATCH DIMENSIONS ON SHEET 2	BSA	11/15/2011		



NOTES:

THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED JAM STYLES AND STRIKE LATCH / MILLWORK INTERFACE.

CLEARANCE AND/OR OPENINGS INSIDE THE MILLWORK WALLS MUST BE PROVIDED FOR ROUTING OF ELECTRIC STRIKE LATCH WIRING.

REFER TO DRAWING 910-0026 FOR ADDITIONAL RECOMMENDED MILLWORK WALL INTERFACE DESIGN PRINCIPLES.

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT, AS WELL AS DOORS / GATES AND JAMS ARE FURNISHED AND INSTALLED BY OTHERS.

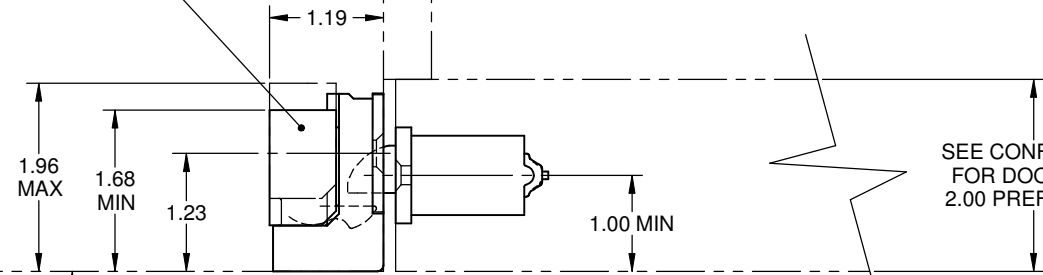


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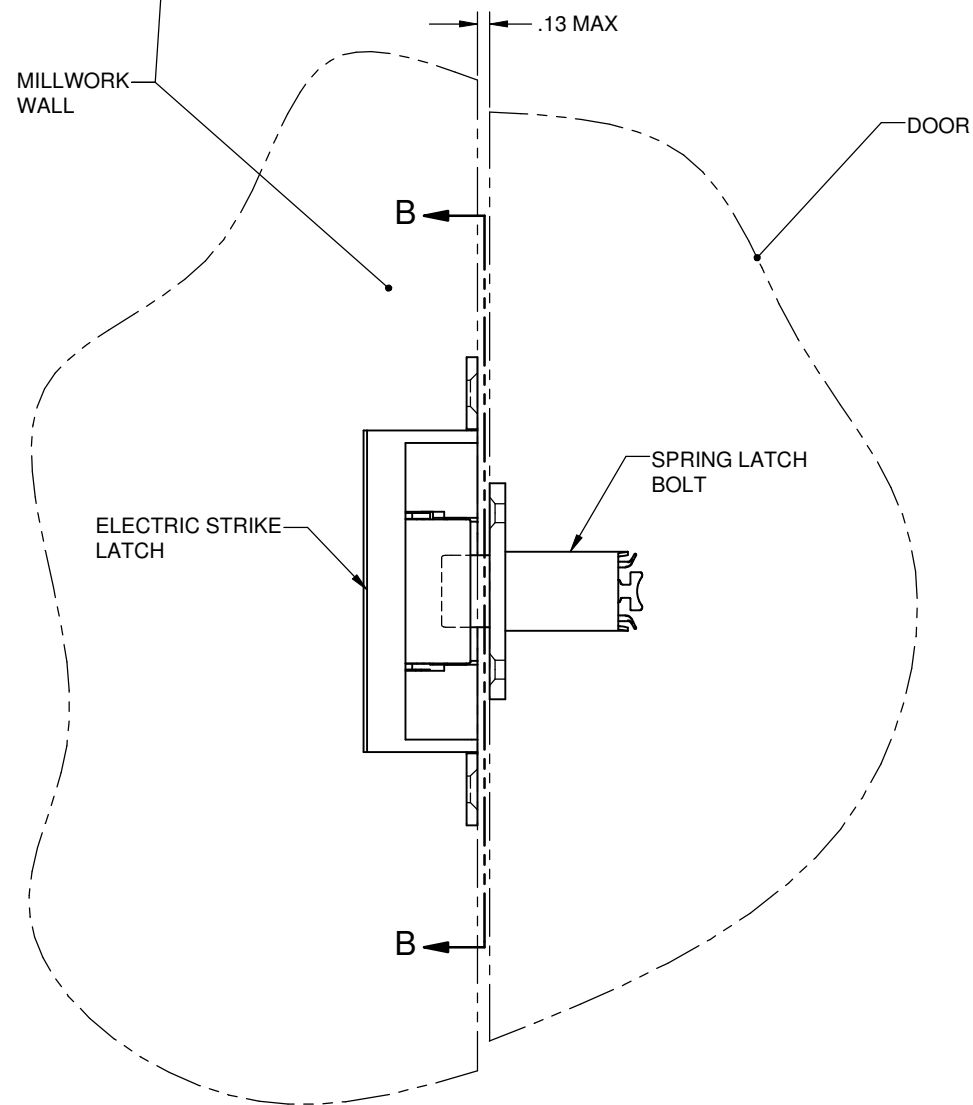
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TITLE STRIKE LATCH / MILLWORK INTERFACE			
DOCUMENT NO.	910-0056	SHEET NO.	REVISION
		1 OF 2	B

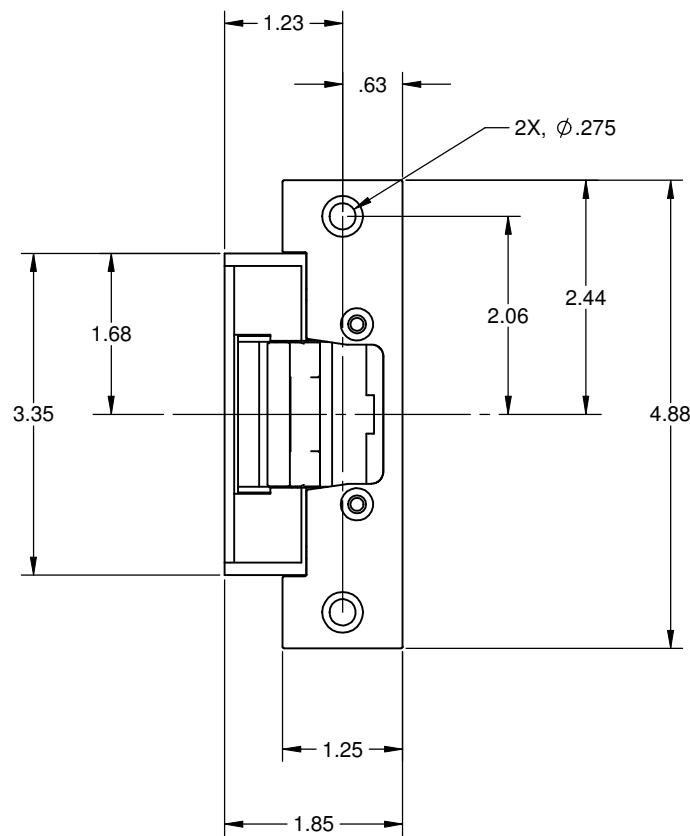
STRIKE INSERT MAY BE ADJUSTED FOR PROPER ALIGNMENT WITH SPRING LATCH BOLT



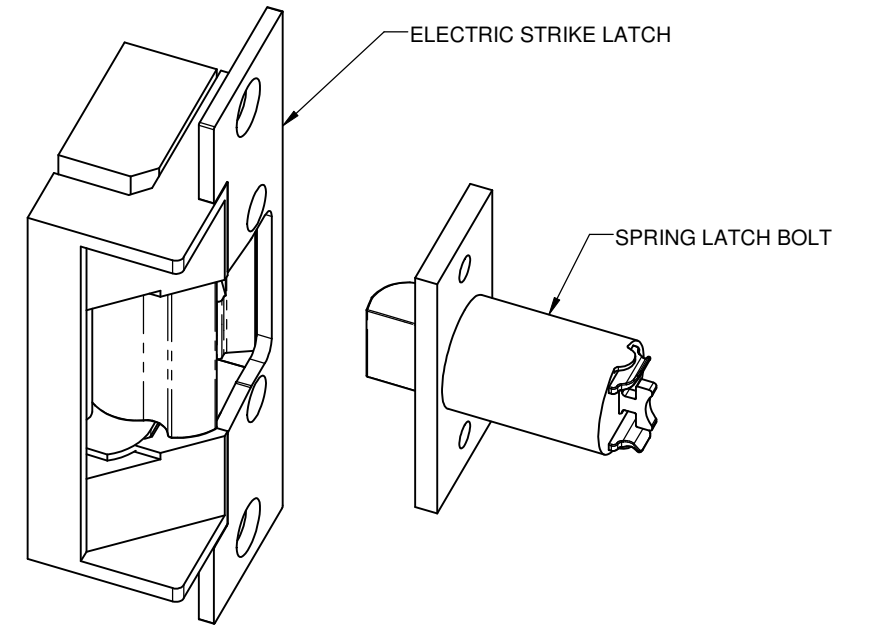
MILLWORK WALL



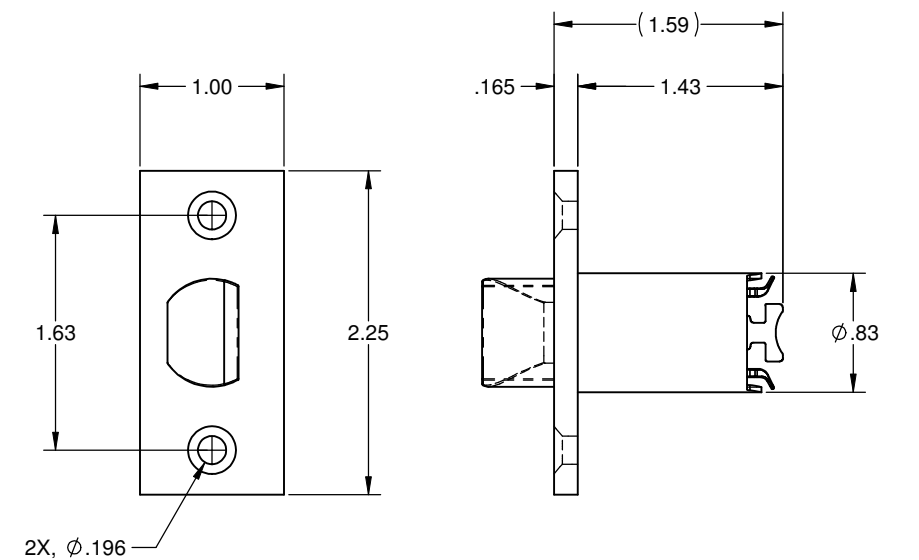
ELEVATION VIEW OF LOCKSET INTERFACE



SECTION B-B



PERSPECTIVE VIEW OF LOCKSET



STRIKE LATCH DIMENSIONS

B

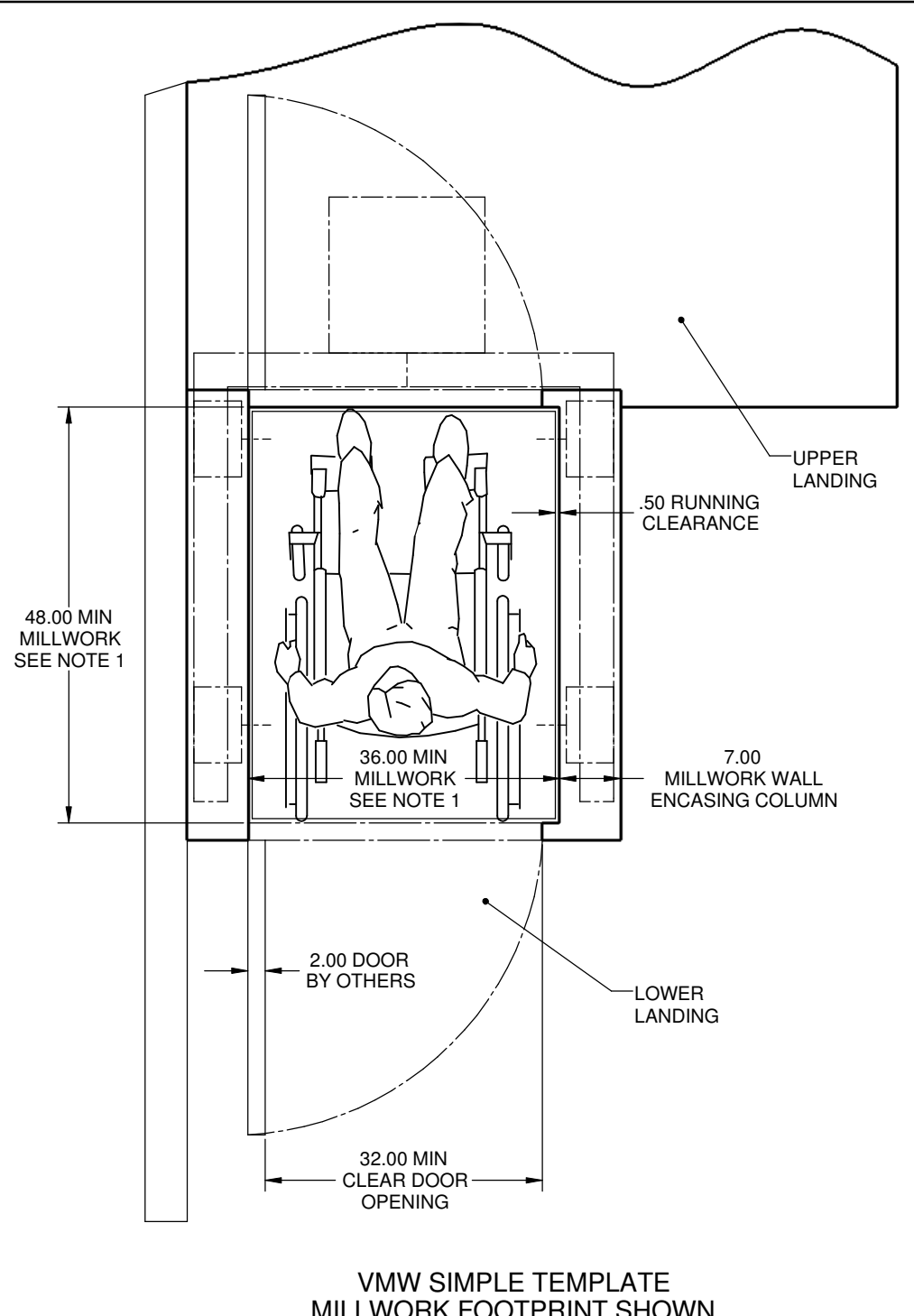


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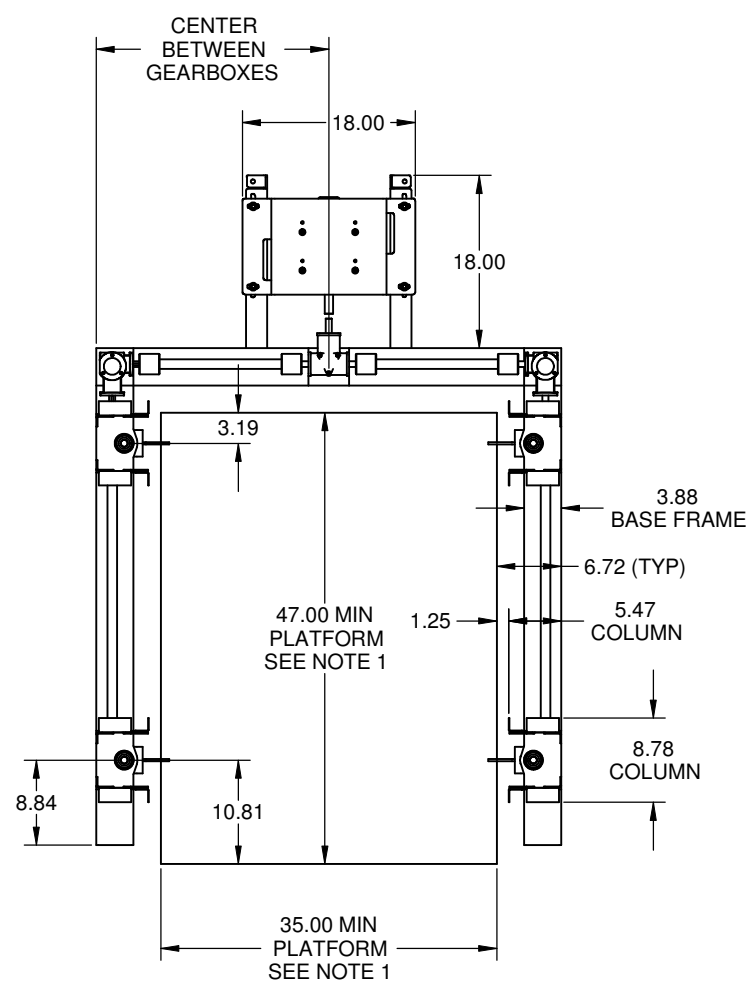
TITLE STRIKE LATCH / MILLWORK INTERFACE		
DOCUMENT NO.	910-0056	SHEET NO. 2 OF 2
		REVISION B

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		

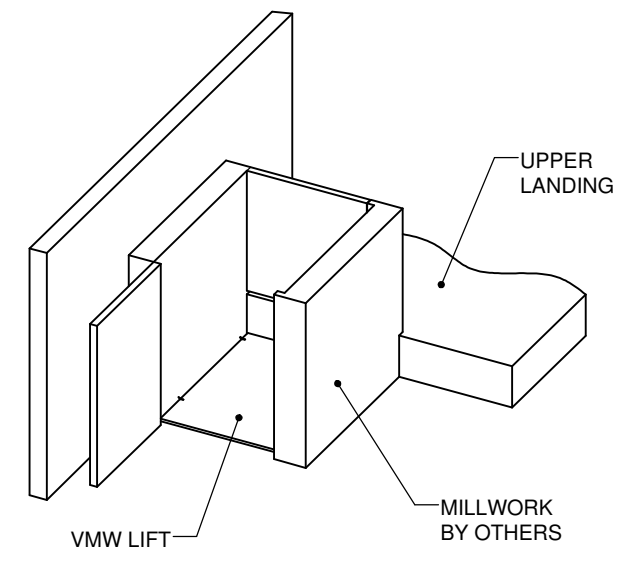


VMW SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN

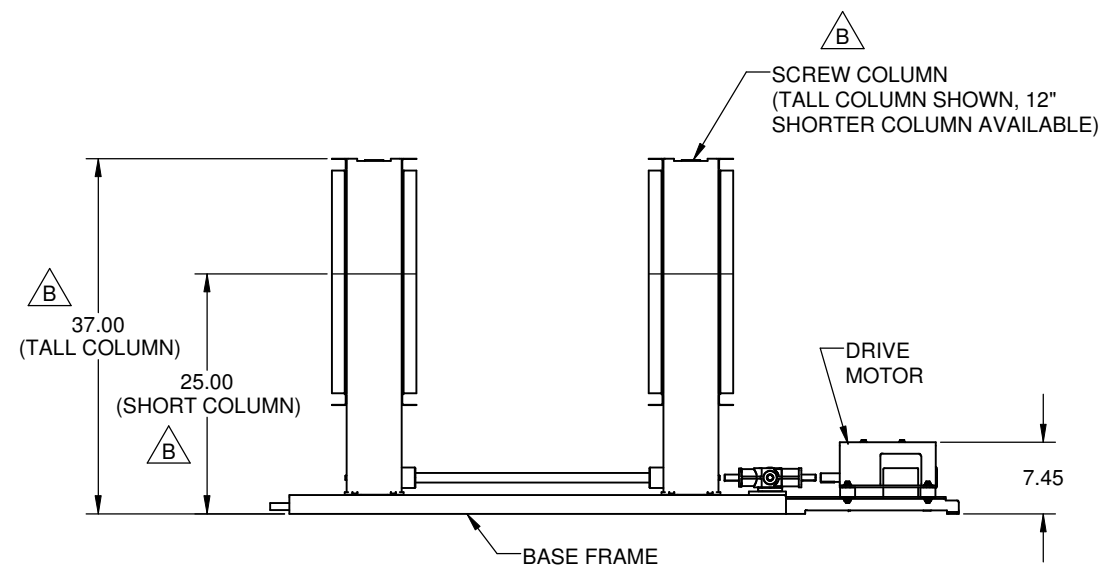
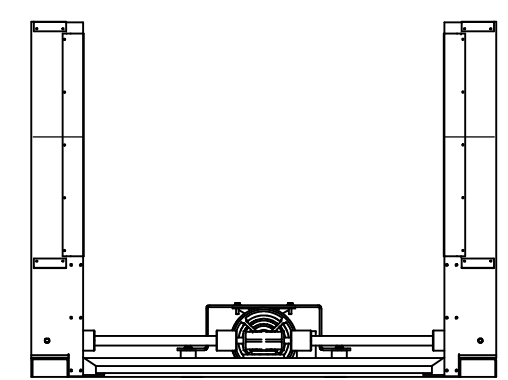
- NOTES:
1. MINIMUM PLATFORM DIMENSIONS ARE SHOWN. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 74" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMW.
 2. MAXIMUM VERTICAL TRAVEL IS 24".
 3. FOR LIFT APPLICATIONS THAT DO NOT CORRESPOND WITH LIFT-U'S STANDARD TEMPLATES, CONTACT LIFT-U FOR EVALUATION.
 4. FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMW LIFT APPLICATION GUIDELINES.



VMW DETAILED LIFT TEMPLATE



PERSPECTIVE VIEW

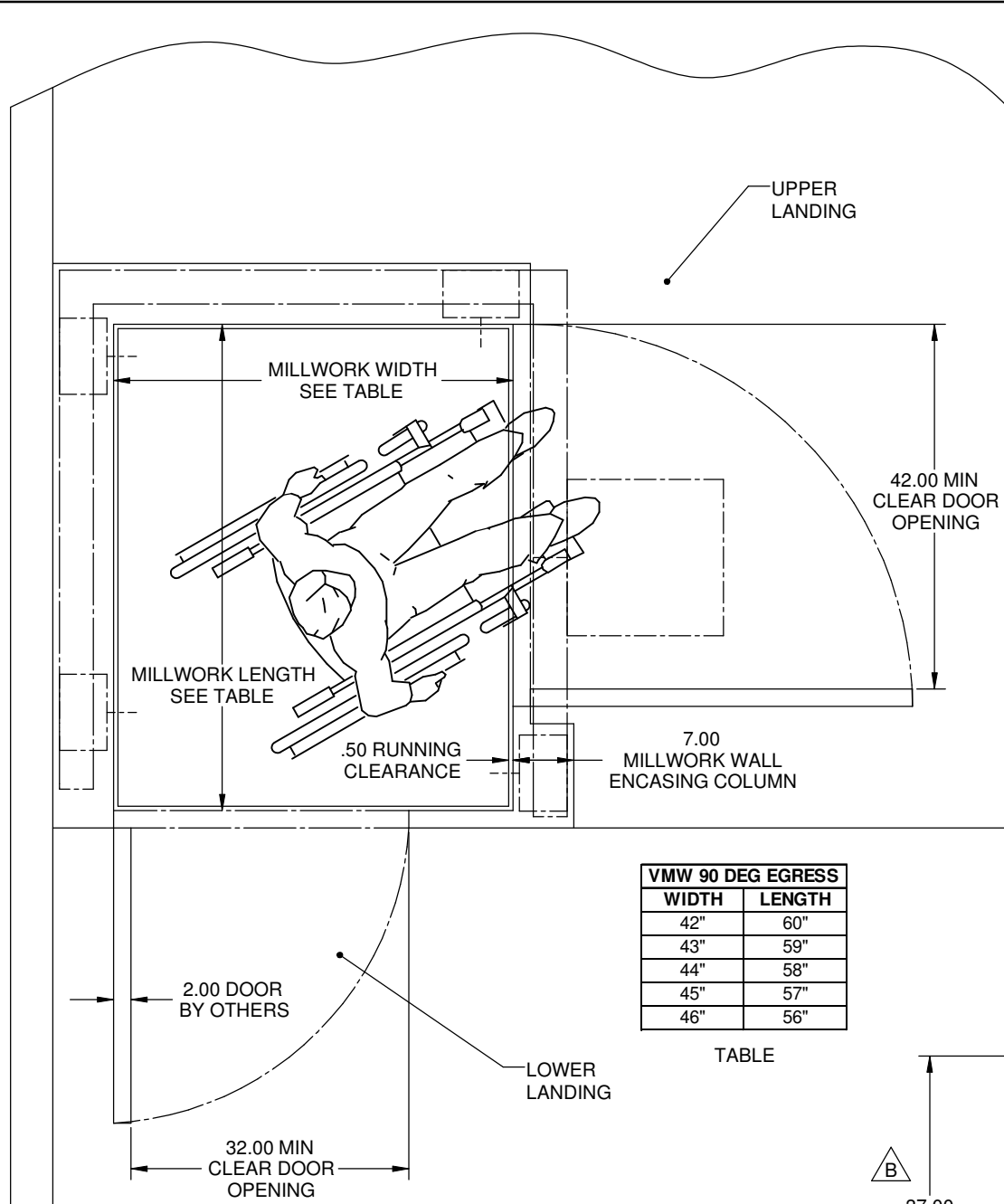


LIFT-U
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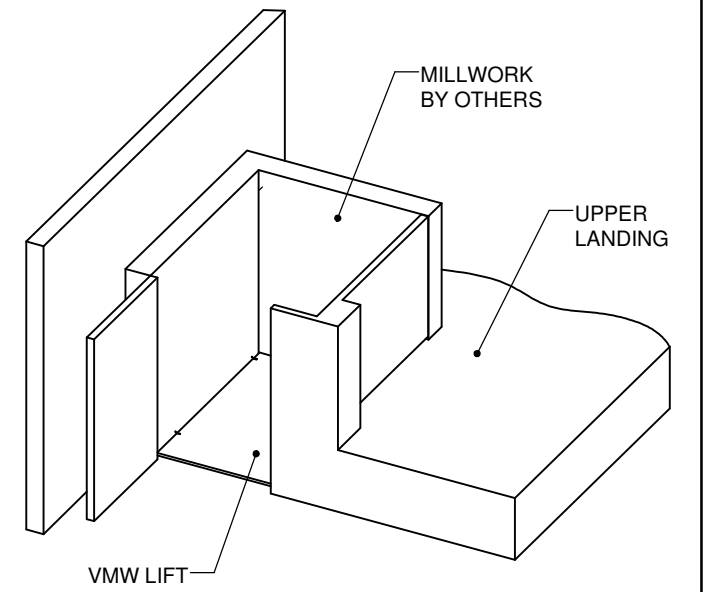
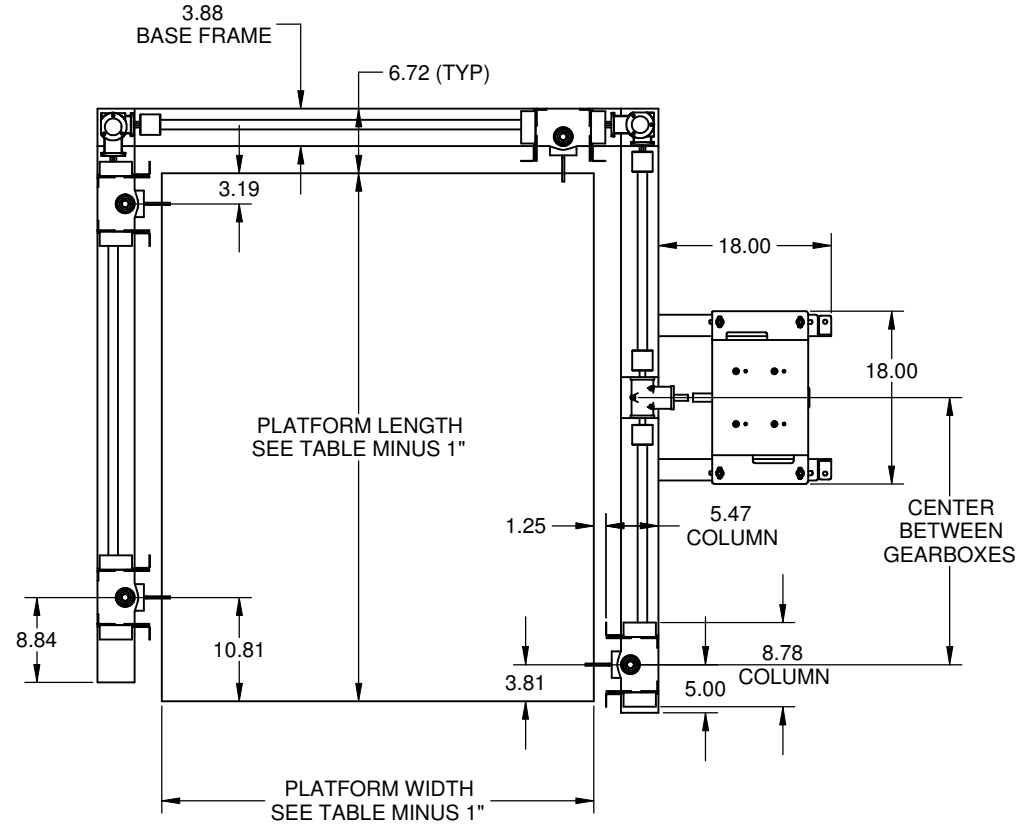
TITLE	VMW TEMPLATE, LAYOUT A		
DOCUMENT NO.	910-0064	SHEET NO.	1 OF 1
		REVISION	B

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		

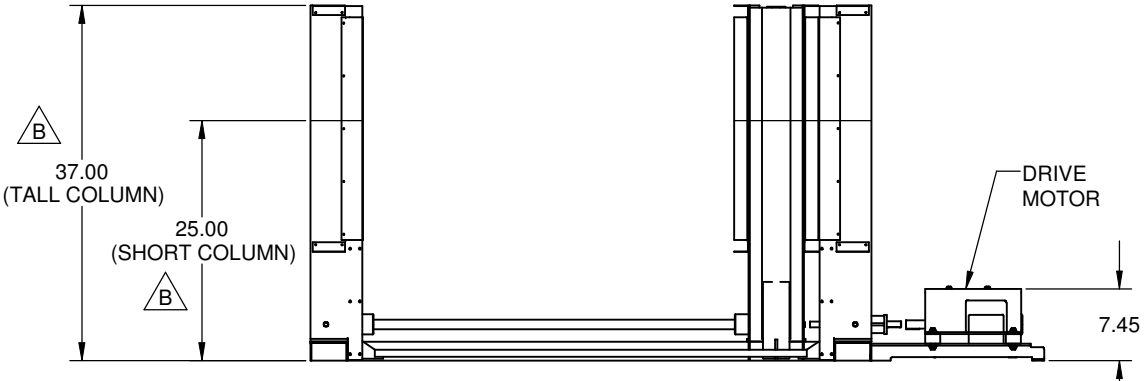


VMW 90 DEG EGRESS	
WIDTH	LENGTH
42"	60"
43"	59"
44"	58"
45"	57"
46"	56"

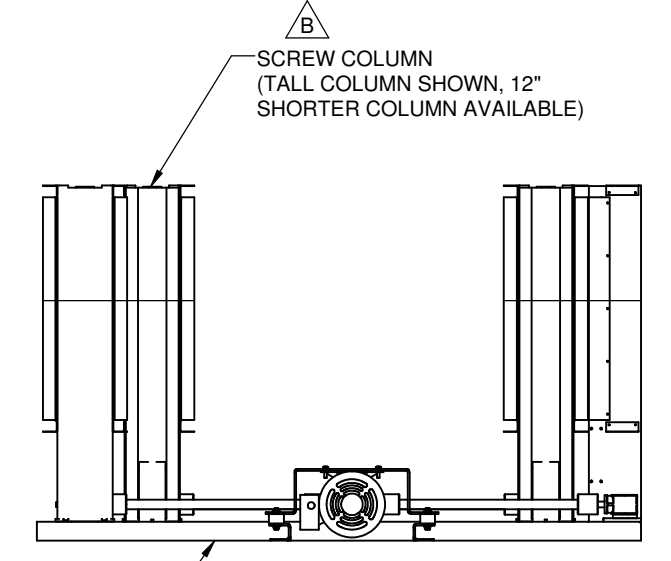
TABLE



PERSPECTIVE VIEW



VMW DETAILED LIFT TEMPLATE



BASE FRAME

- NOTES:
- SPECIFIC TO THIS CONFIGURATION, THE MINIMUM PLATFORM WIDTH CORRESPONDS TO THE MINIMUM PLATFORM LENGTH - REFER TO TABLE. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 74" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMW.
 - MAXIMUM VERTICAL TRAVEL IS 24".
 - FOR LIFT APPLICATIONS THAT DO NOT CORRESPOND WITH LIFT-U'S STANDARD TEMPLATES, CONTACT LIFT-U FOR EVALUATION.
 - FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMW LIFT APPLICATION GUIDELINES.

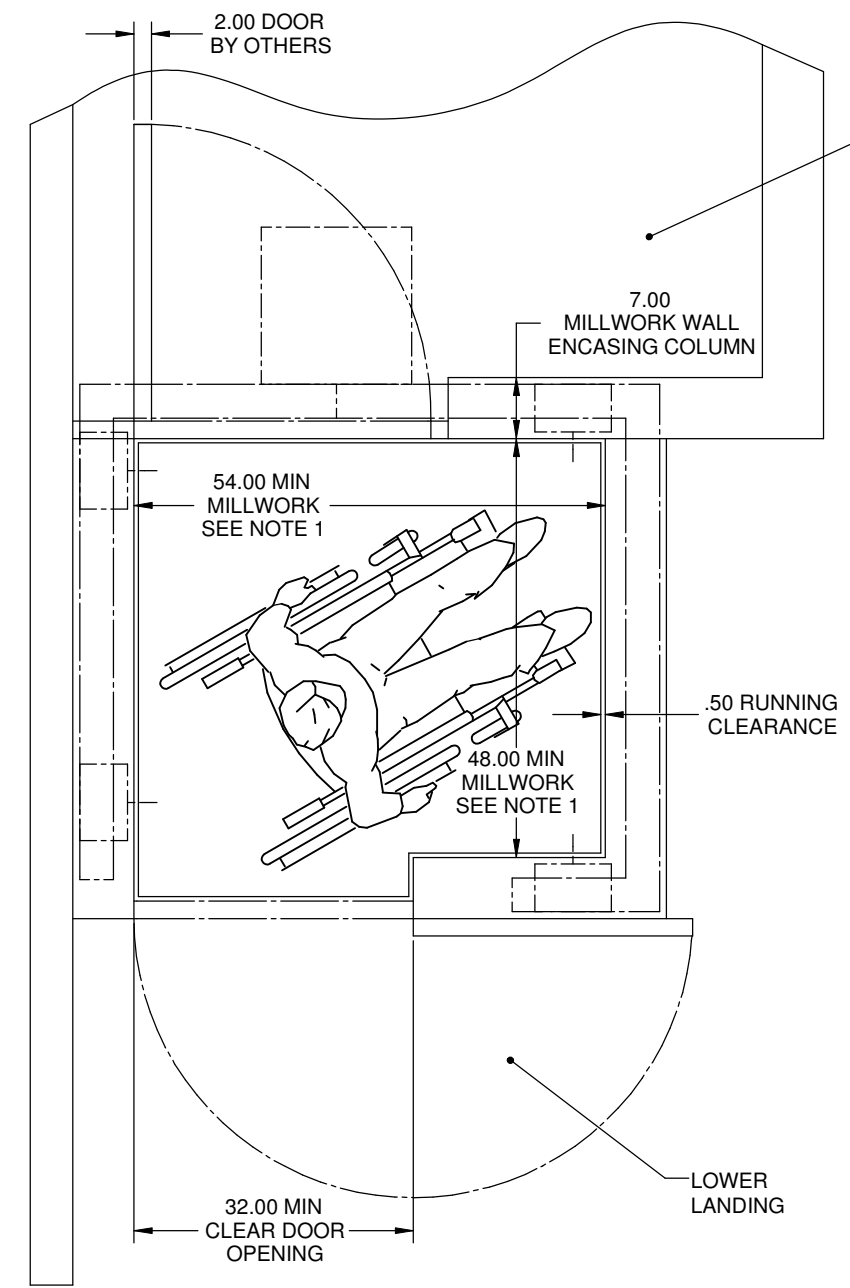
LIFT-U
P.O. BOX 398
ESCALON, CA. 95320
209-838-2400

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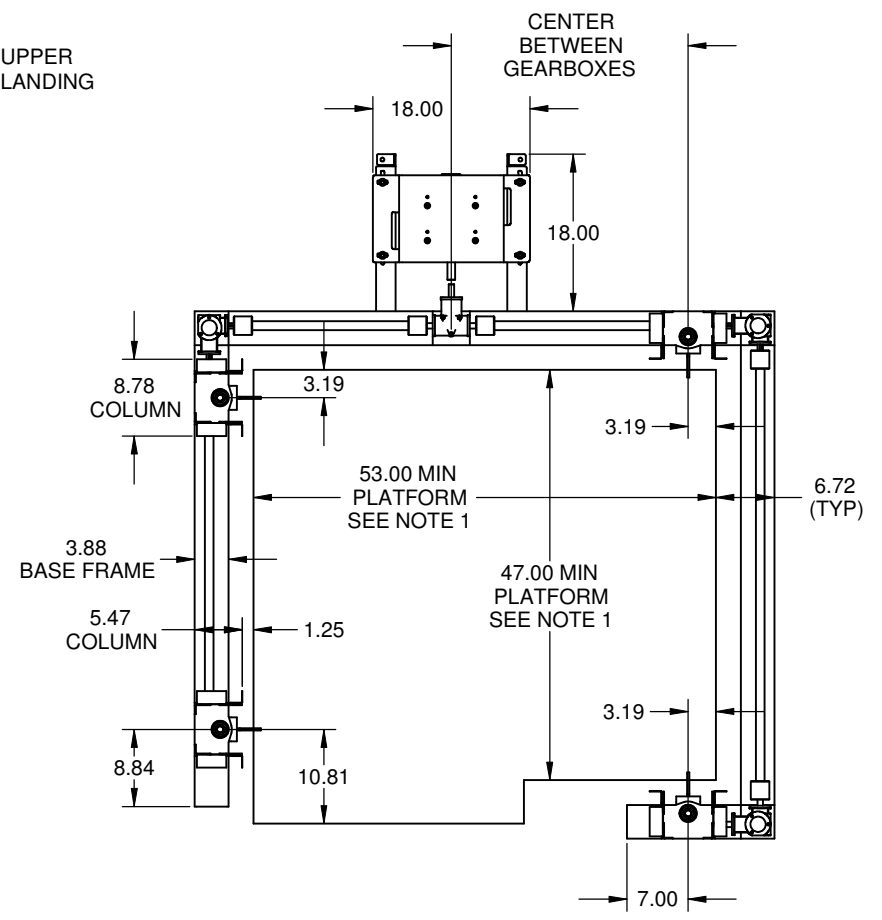
TITLE	VMW TEMPLATE, LAYOUT B		
DOCUMENT NO.	910-0065	SHEET NO.	1 OF 1
		REVISION	B

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		

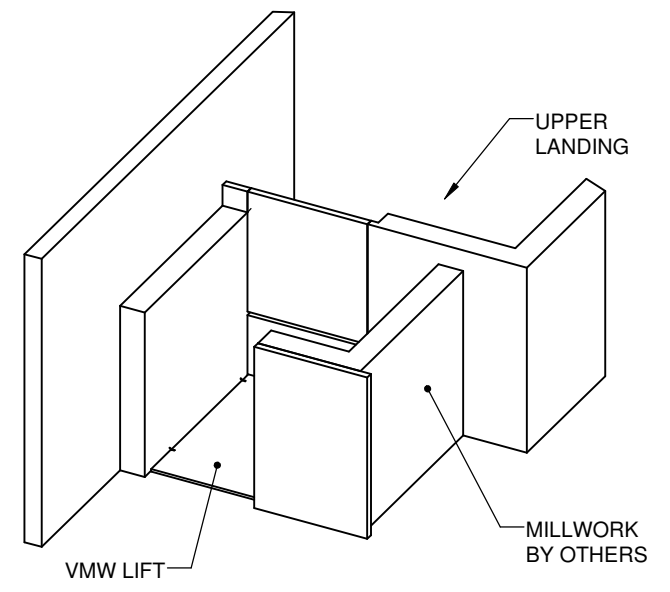


VMW SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN

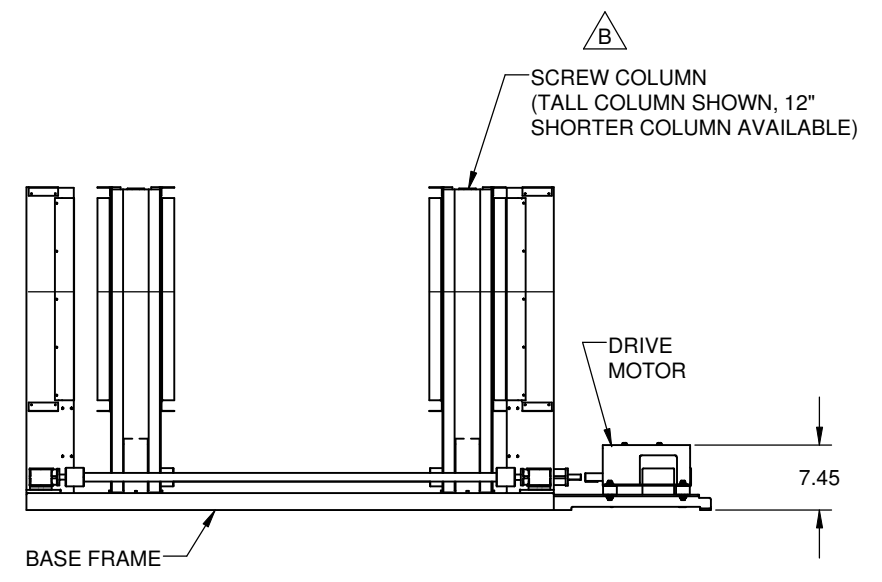
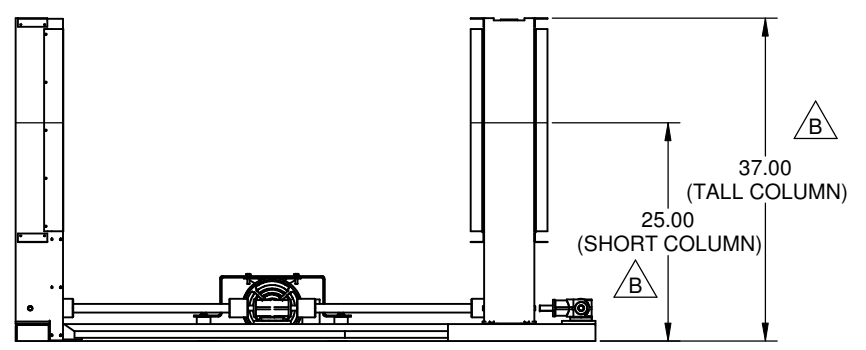
- NOTES:
1. MINIMUM PLATFORM DIMENSIONS ARE SHOWN. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 74" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMW.
 2. MAXIMUM VERTICAL TRAVEL IS 24".
 3. FOR LIFT APPLICATIONS THAT DO NOT CORRESPOND WITH LIFT-U'S STANDARD TEMPLATES, CONTACT LIFT-U FOR EVALUATION.
 4. FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMW LIFT APPLICATION GUIDELINES.



VMW DETAILED LIFT TEMPLATE



PERSPECTIVE VIEW

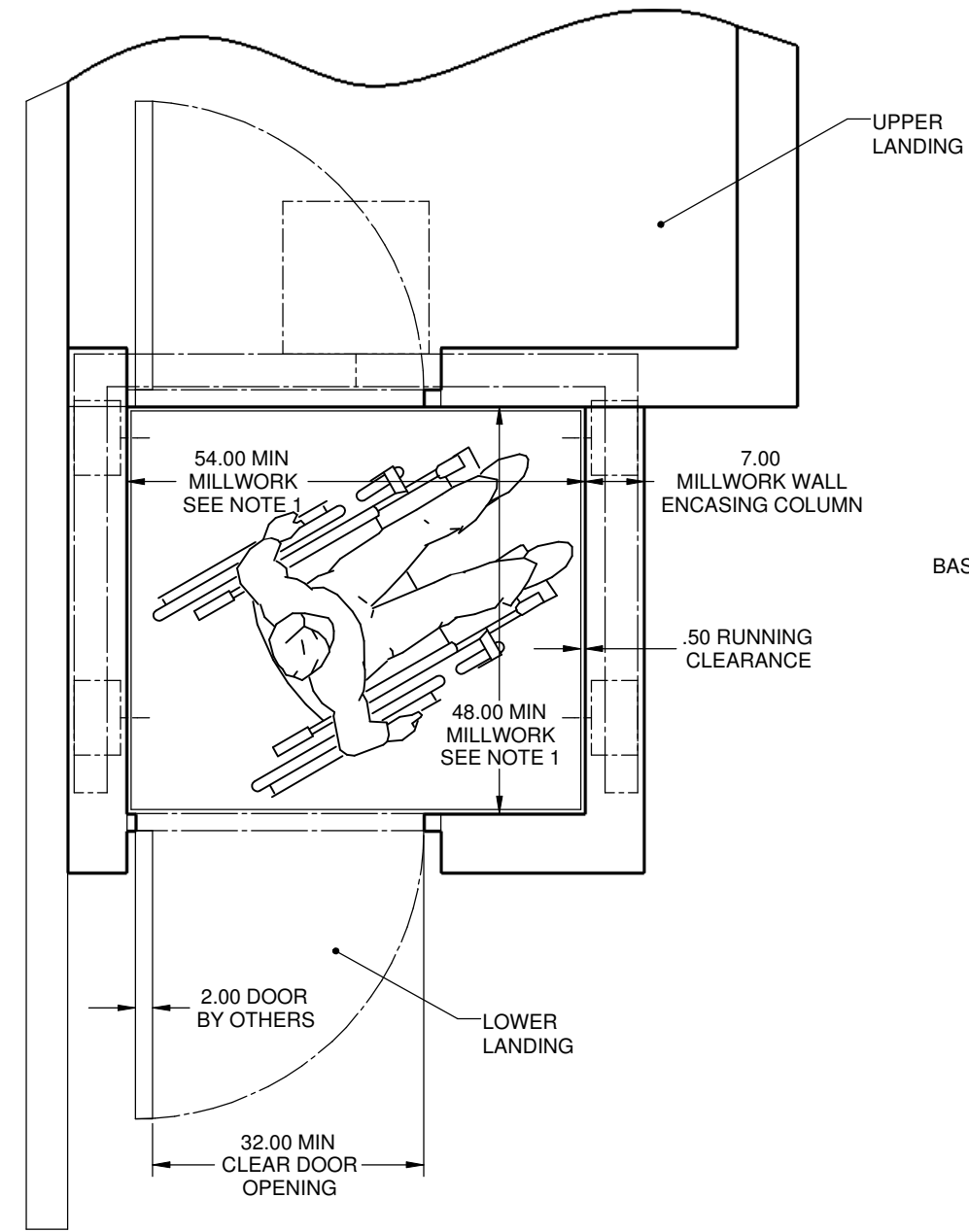


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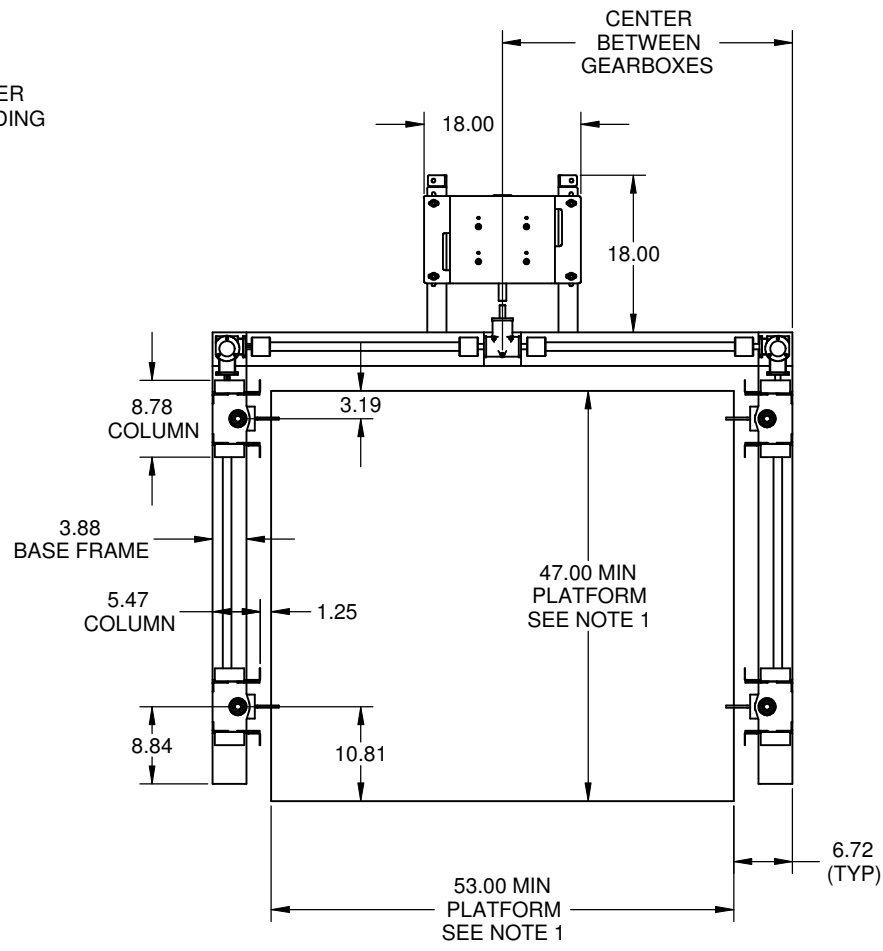
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TITLE	VMW TEMPLATE, LAYOUT C		
DOCUMENT NO.	910-0066	SHEET NO.	1 OF 1
		REVISION	B

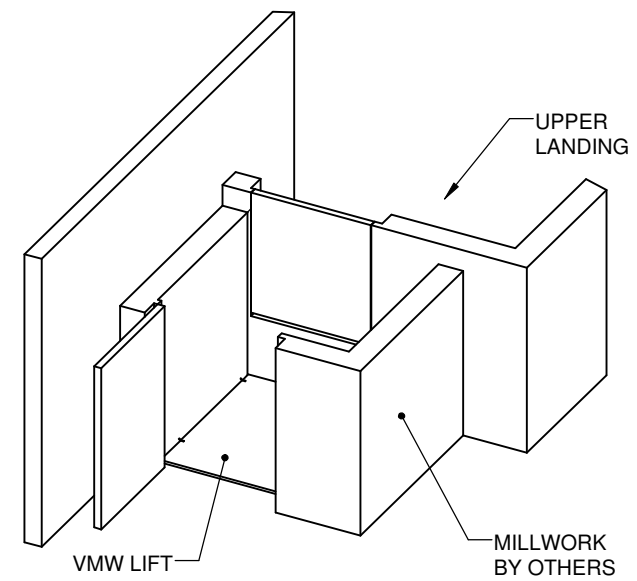
REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		



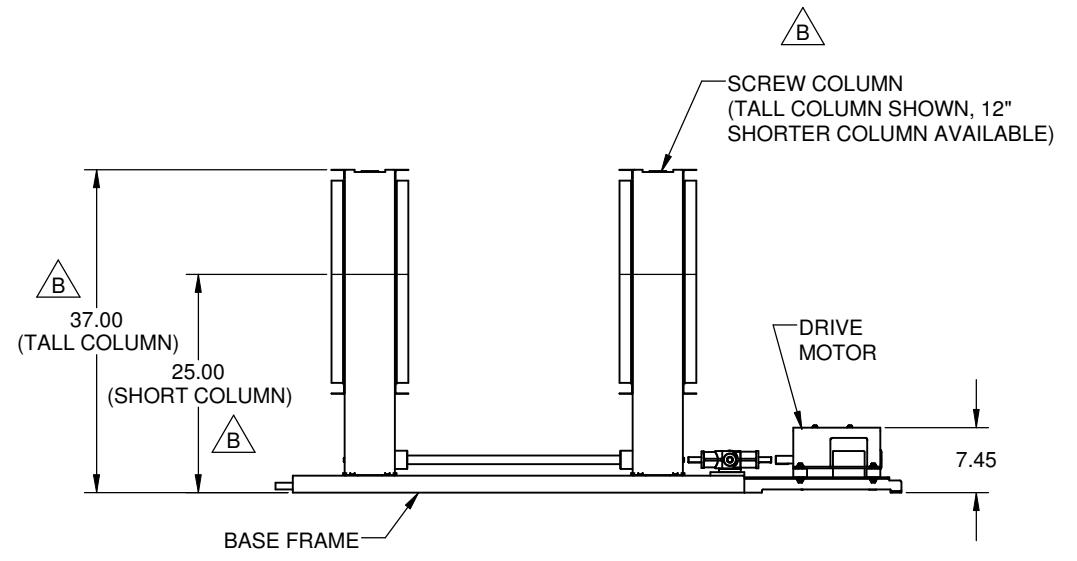
VMW SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN



VMW DETAILED LIFT TEMPLATE



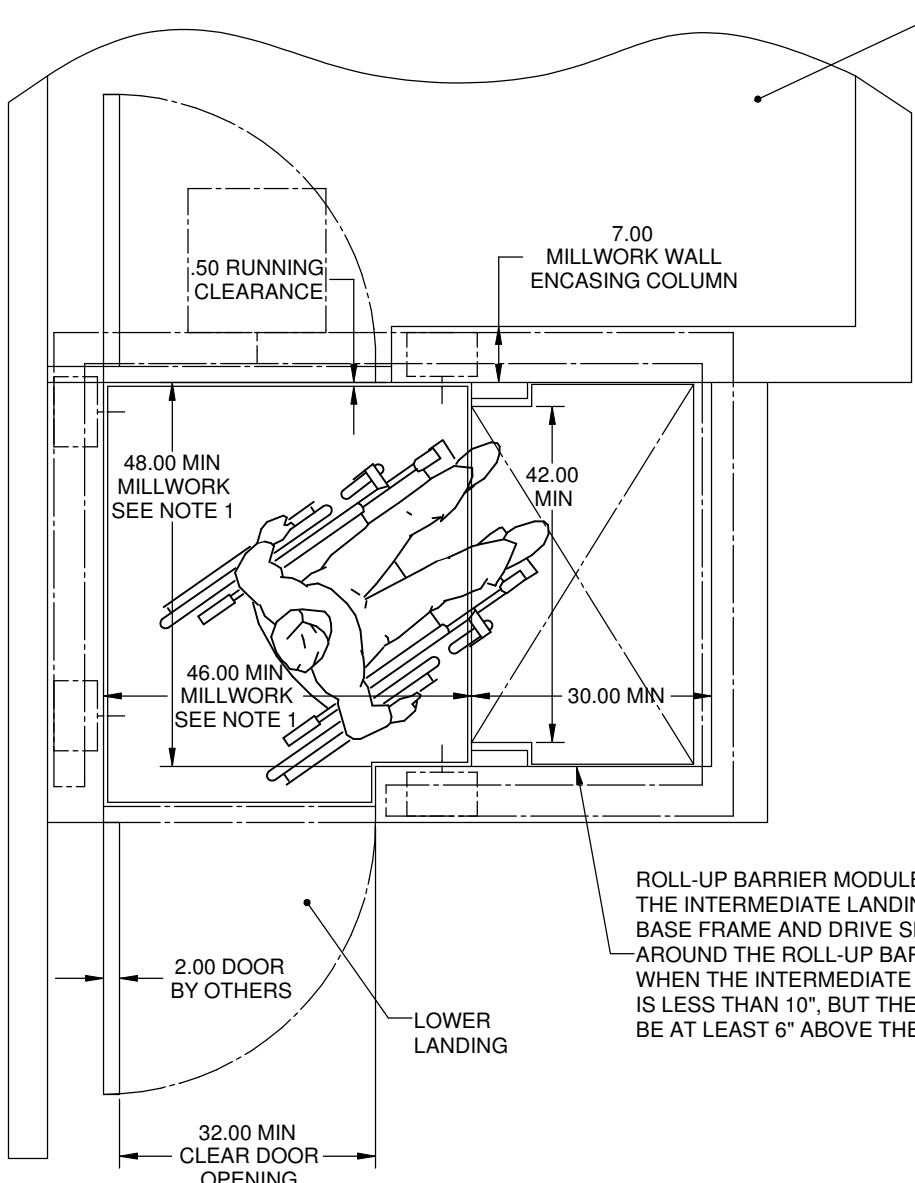
PERSPECTIVE VIEW



- NOTES:
1. MINIMUM PLATFORM DIMENSIONS ARE SHOWN. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 74" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMW.
 2. MAXIMUM VERTICAL TRAVEL IS 24".
 3. FOR LIFT APPLICATIONS THAT DO NOT CORRESPOND WITH LIFT-U'S STANDARD TEMPLATES, CONTACT LIFT-U FOR EVALUATION.
 4. FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMW LIFT APPLICATION GUIDELINES.

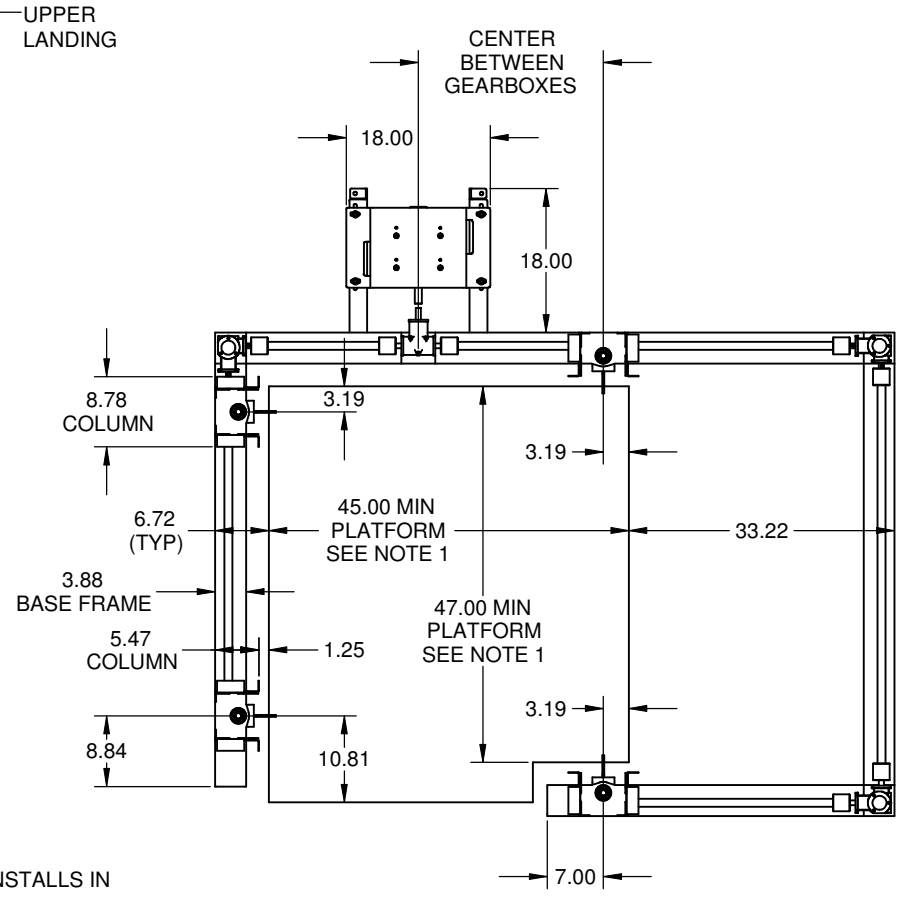
<p>LIFT-U P.O. BOX 398 ESCALON, CA. 95320 209-838-2400</p> <p>A DIVISION OF HOGAN MFG., INC.</p>	<p>THIS DOCUMENT IS AND CONTAINS CONFIDENTIAL TRADE SECRET INFORMATION OF THE COMPANY. NO PART OF IT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONICALLY, PHOTOCOPIING, RECORDING OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF HOGAN MFG, INC. THIS DOCUMENT IS LOANED FOR THE LIMITED PURPOSES STATED HEREIN ONLY, AND REMAINS THE PROPERTY OF THE COMPANY.</p>	
	<p>TITLE VMW TEMPLATE, LAYOUT D</p>	
DOCUMENT NO. 910-0067	SHEET NO. 1 OF 1	REVISION B

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		

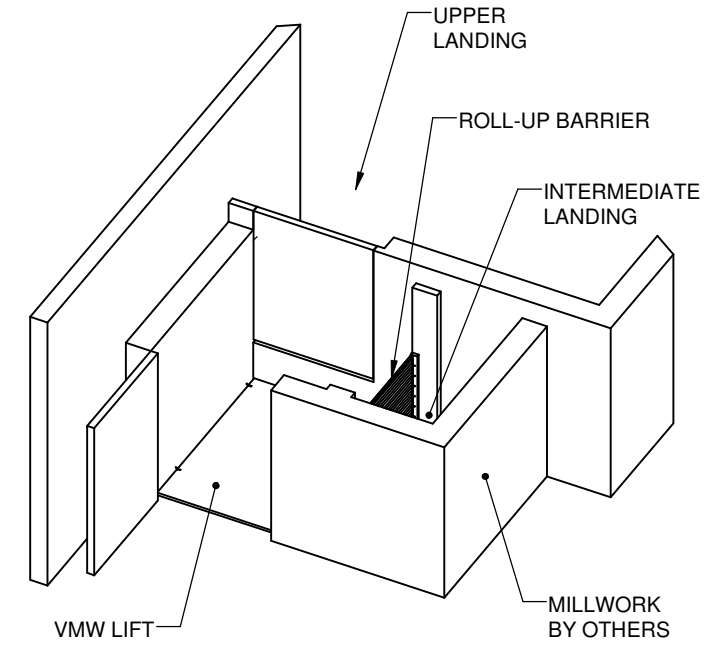


VMW SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN

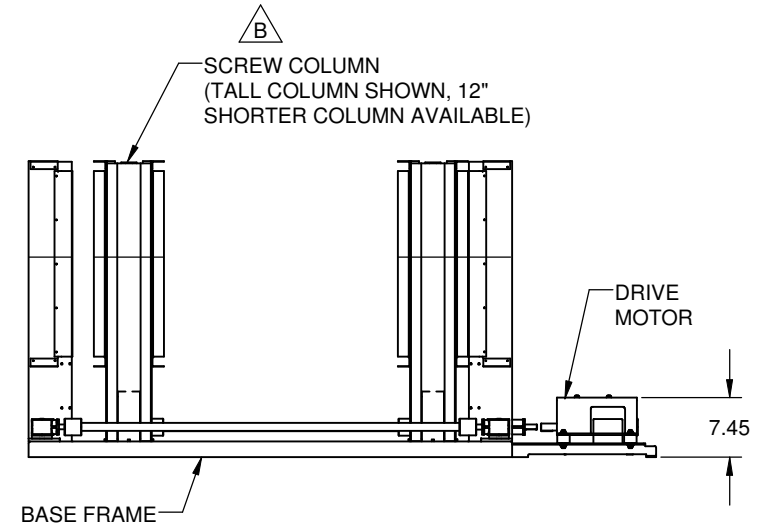
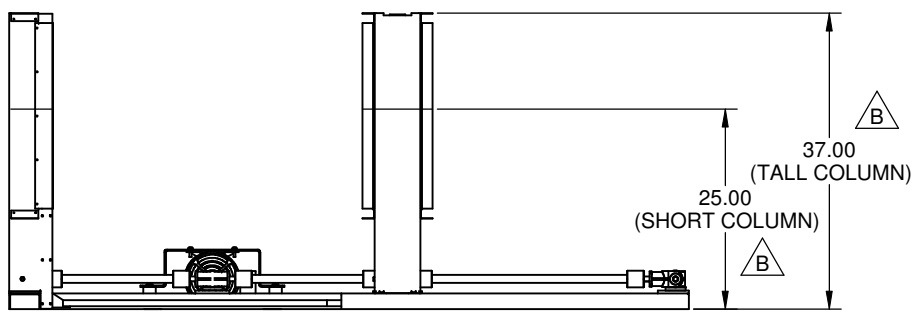
- NOTES:
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 4. FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMW LIFT APPLICATION GUIDELINES.




VMW DETAILED LIFT TEMPLATE



PERSPECTIVE VIEW





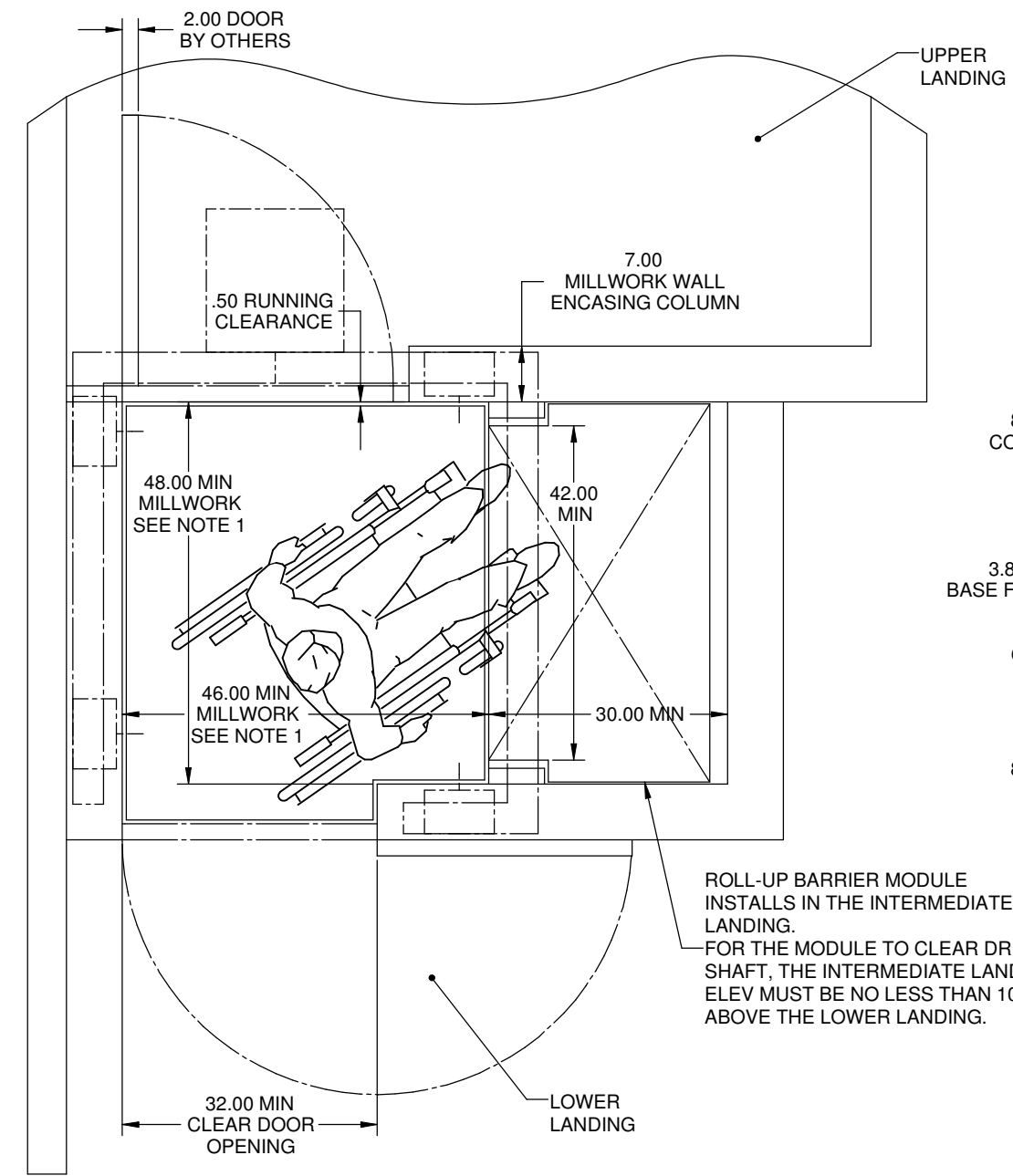
LIFT-U
P.O. BOX 398
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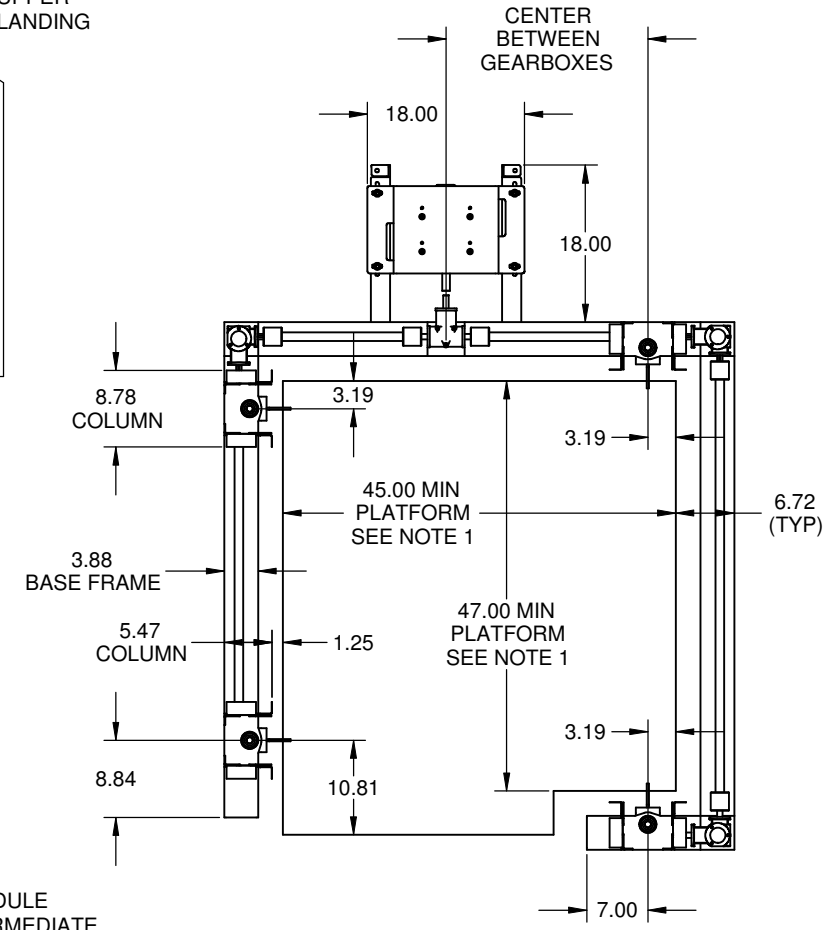
TITLE		VMW TEMPLATE, LAYOUT E	
DOCUMENT NO.	910-0068	SHEET NO.	1 OF 1
			REVISION
			B

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		

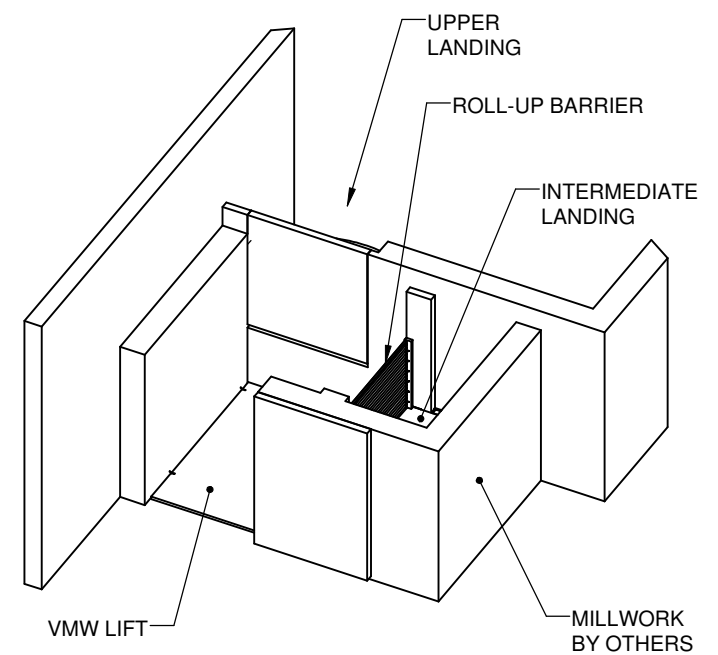


VMW SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN

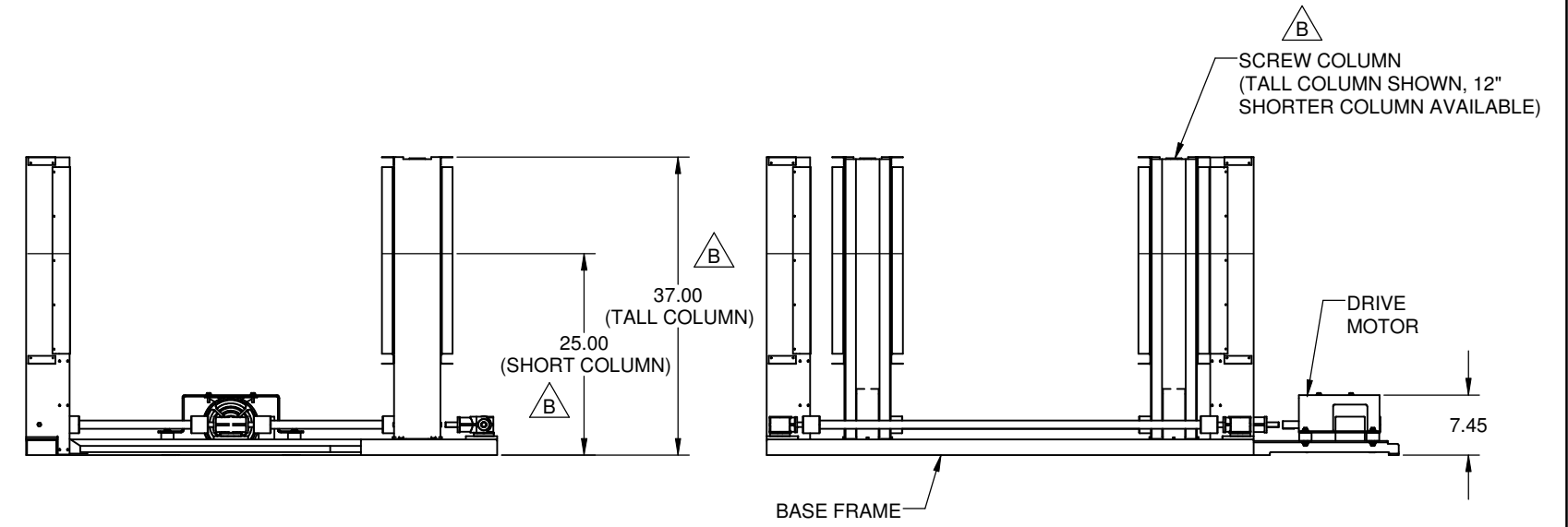
- NOTES:
1. MINIMUM PLATFORM DIMENSIONS CORRESPOND WITH MINIMUM DOOR OPENINGS AND SCREW COLUMN ORIENTATION. SUBSEQUENTLY, INCREASING THE DOOR OPENINGS ALSO INCREASES THE MINIMUM PLATFORM DIMENSIONS. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 74" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMW.
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 4. FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMW LIFT APPLICATION GUIDELINES.




VMW DETAILED LIFT TEMPLATE



PERSPECTIVE VIEW





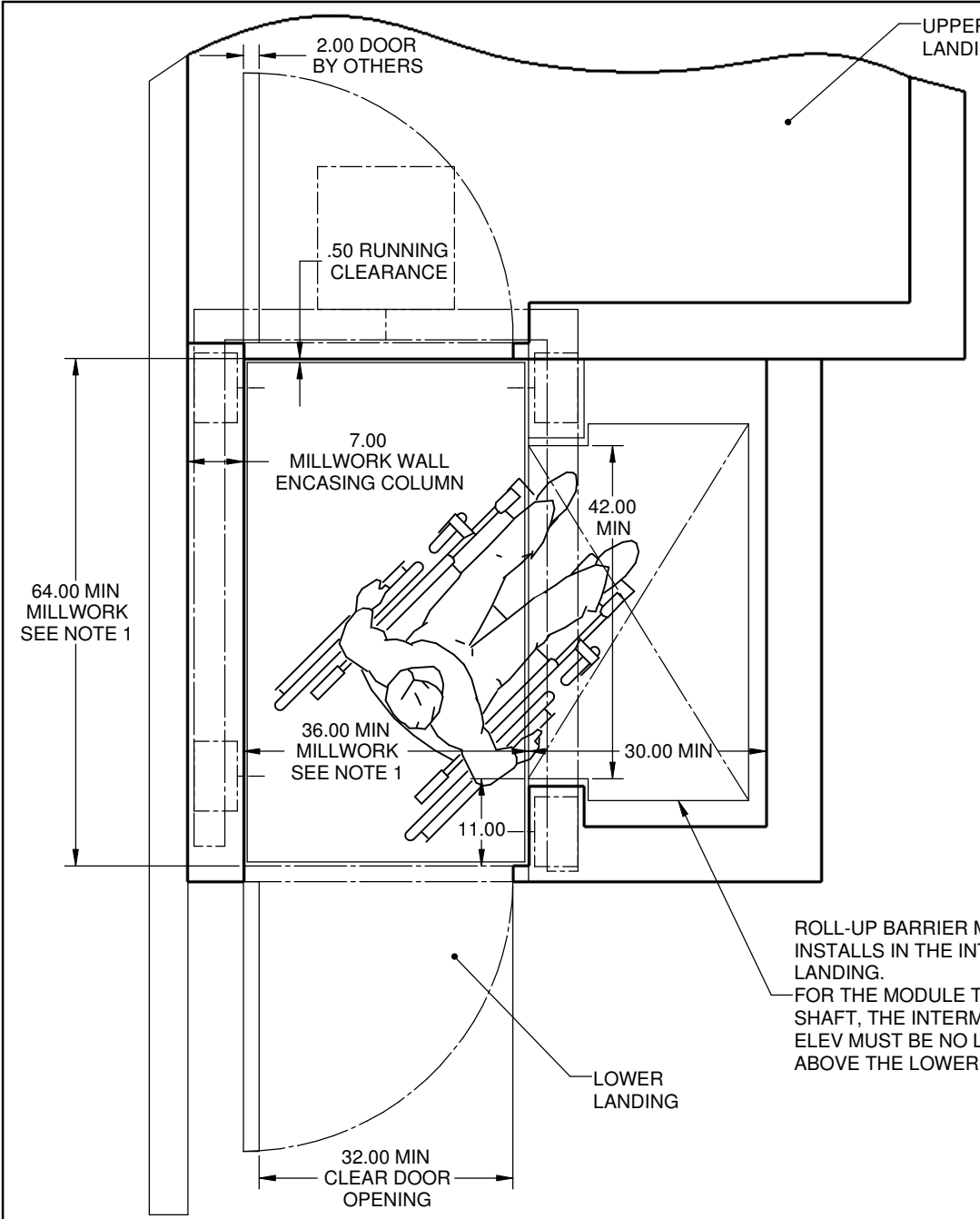
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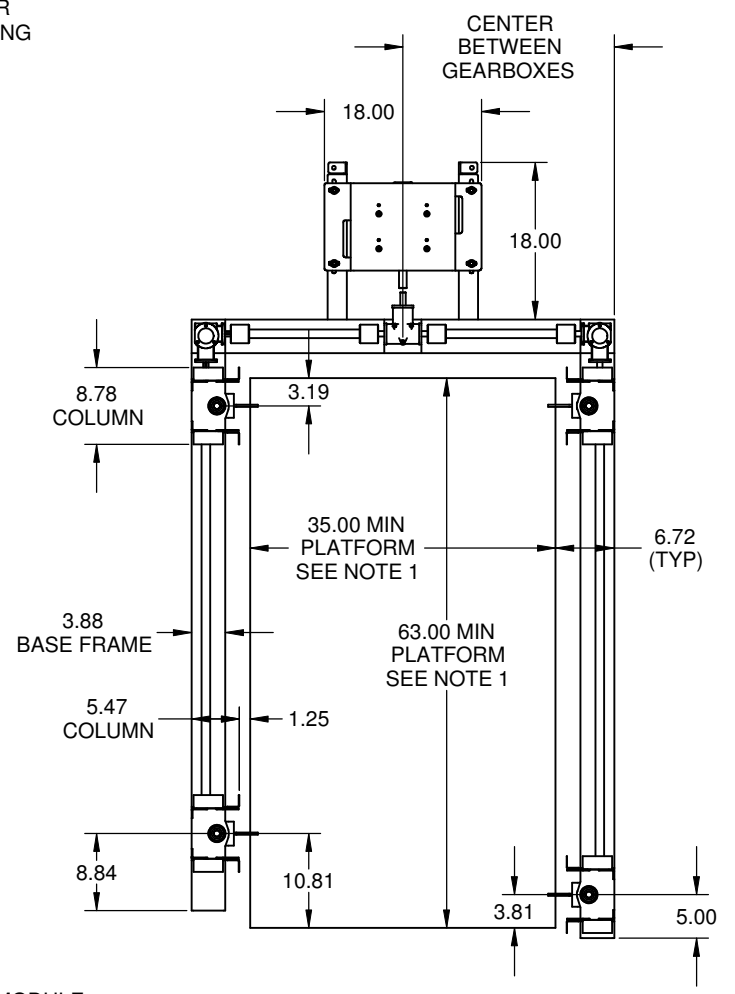
TITLE		VMW TEMPLATE, LAYOUT F	
DOCUMENT NO.	910-0069	SHEET NO.	1 OF 1
		REVISION	B

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		

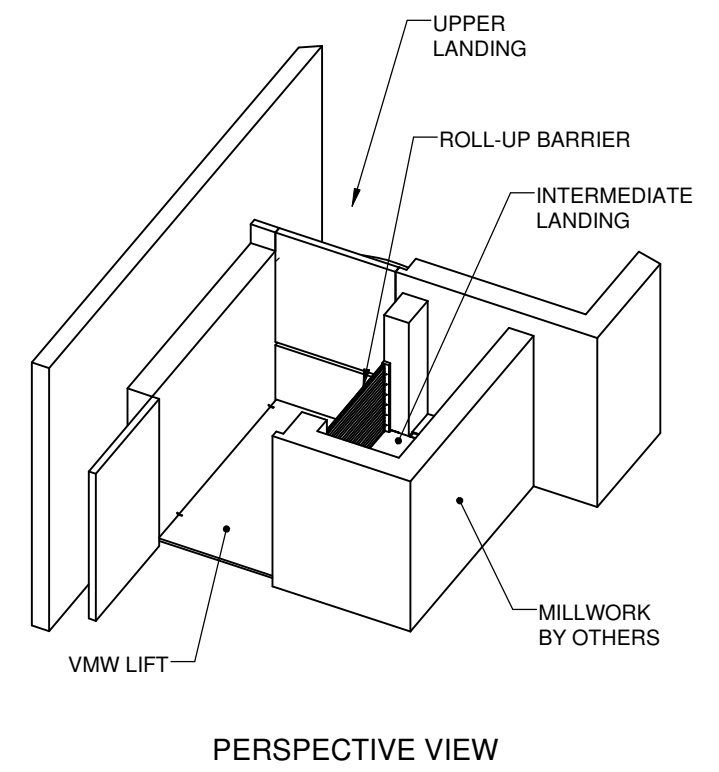


VMW SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN

- NOTES:
1. MINIMUM PLATFORM DIMENSIONS CORRESPOND WITH MINIMUM DOOR OPENINGS AND SCREW COLUMN ORIENTATION. SUBSEQUENTLY, INCREASING THE DOOR OPENINGS ALSO INCREASES THE MINIMUM PLATFORM DIMENSIONS. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 74" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMW.
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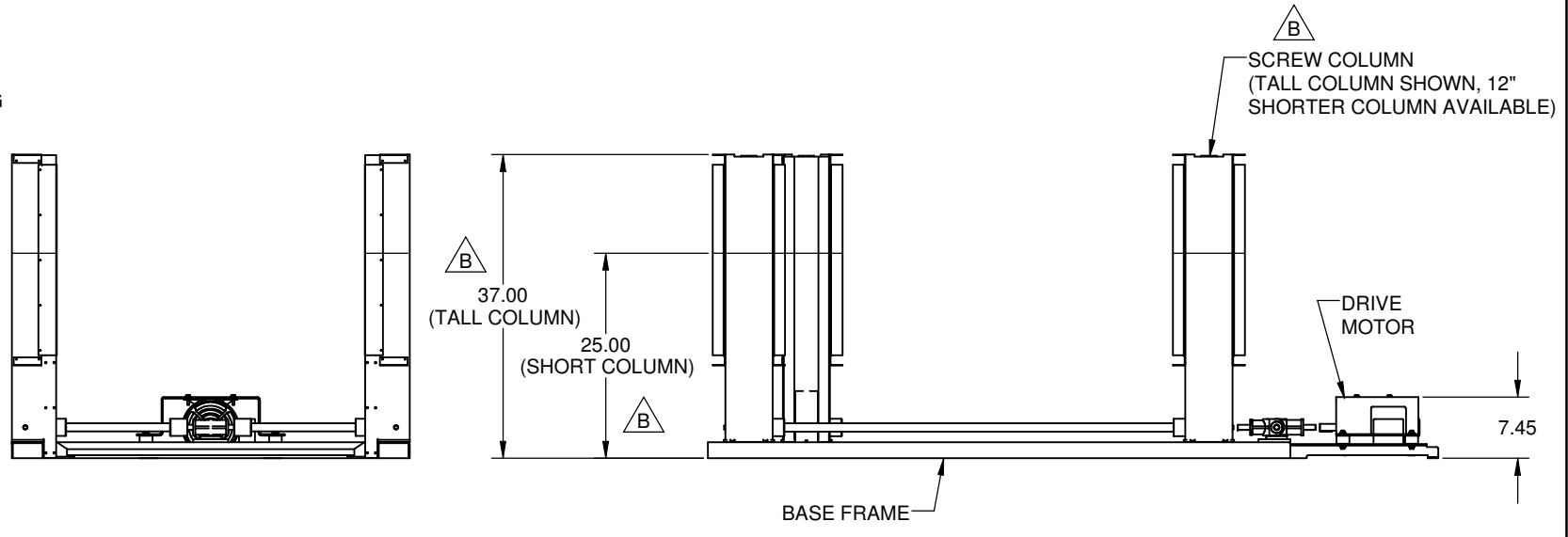


VMW DETAILED LIFT TEMPLATE



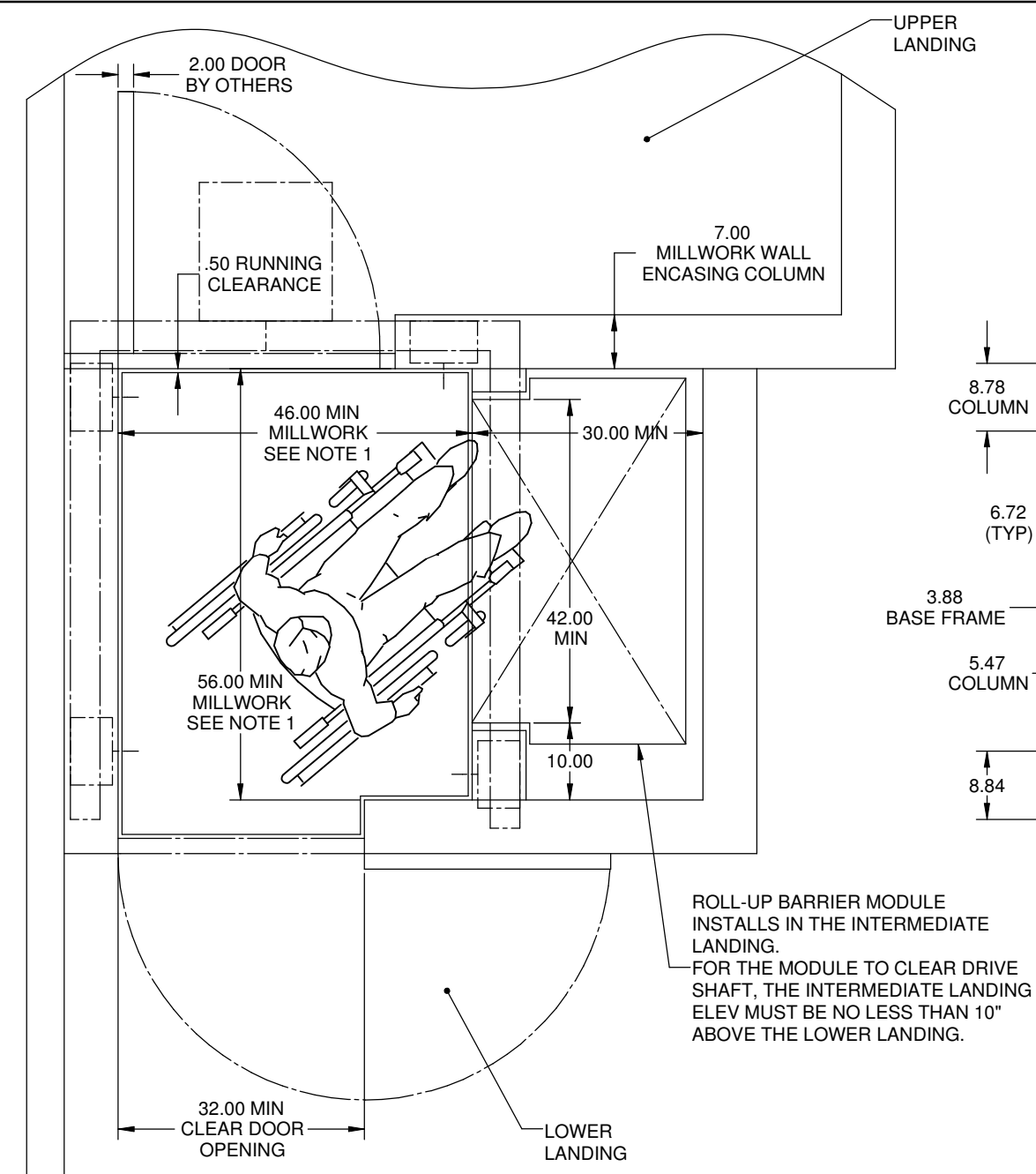
PERSPECTIVE VIEW

ROLL-UP BARRIER MODULE
INSTALLS IN THE INTERMEDIATE
LANDING.
FOR THE MODULE TO CLEAR DRIVE
SHAFT, THE INTERMEDIATE
ELEV MUST BE NO LESS THAN 10"
ABOVE THE LOWER LANDING.



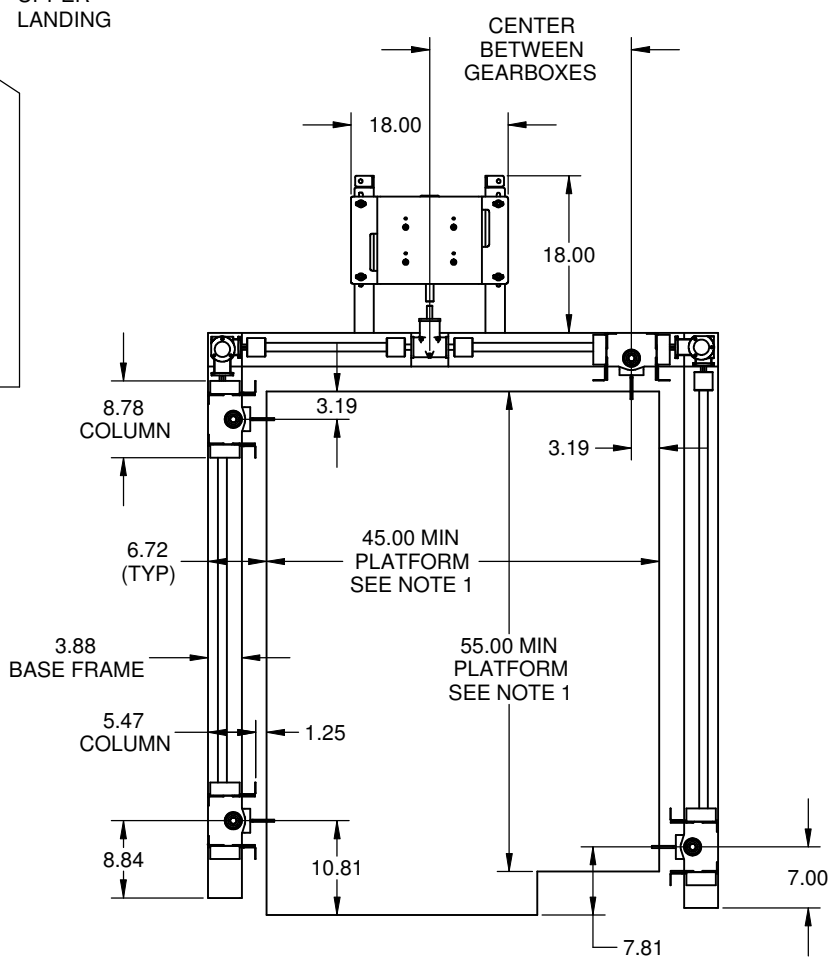
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TITLE VMW TEMPLATE, LAYOUT G		
DOCUMENT NO. 910-0070	SHEET NO. 1 OF 1	REVISION B

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		
B		UPDATED PER CURRENT DESIGNS	WAC	10-18-11		

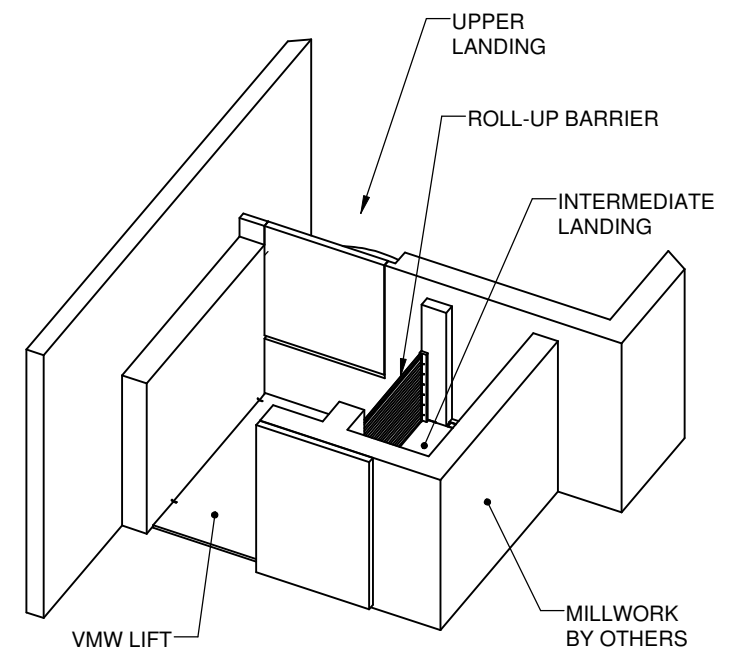


VMW SIMPLE TEMPLATE
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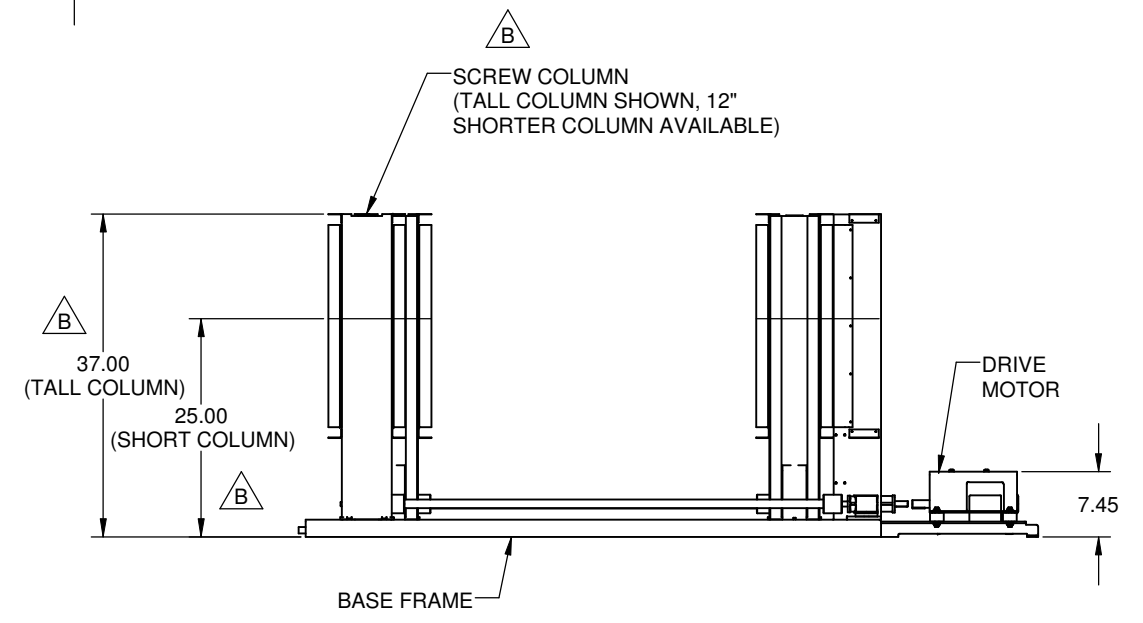
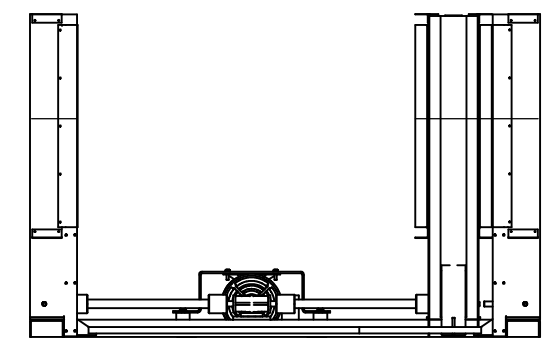
- NOTES:
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VMW DETAILED LIFT TEMPLATE



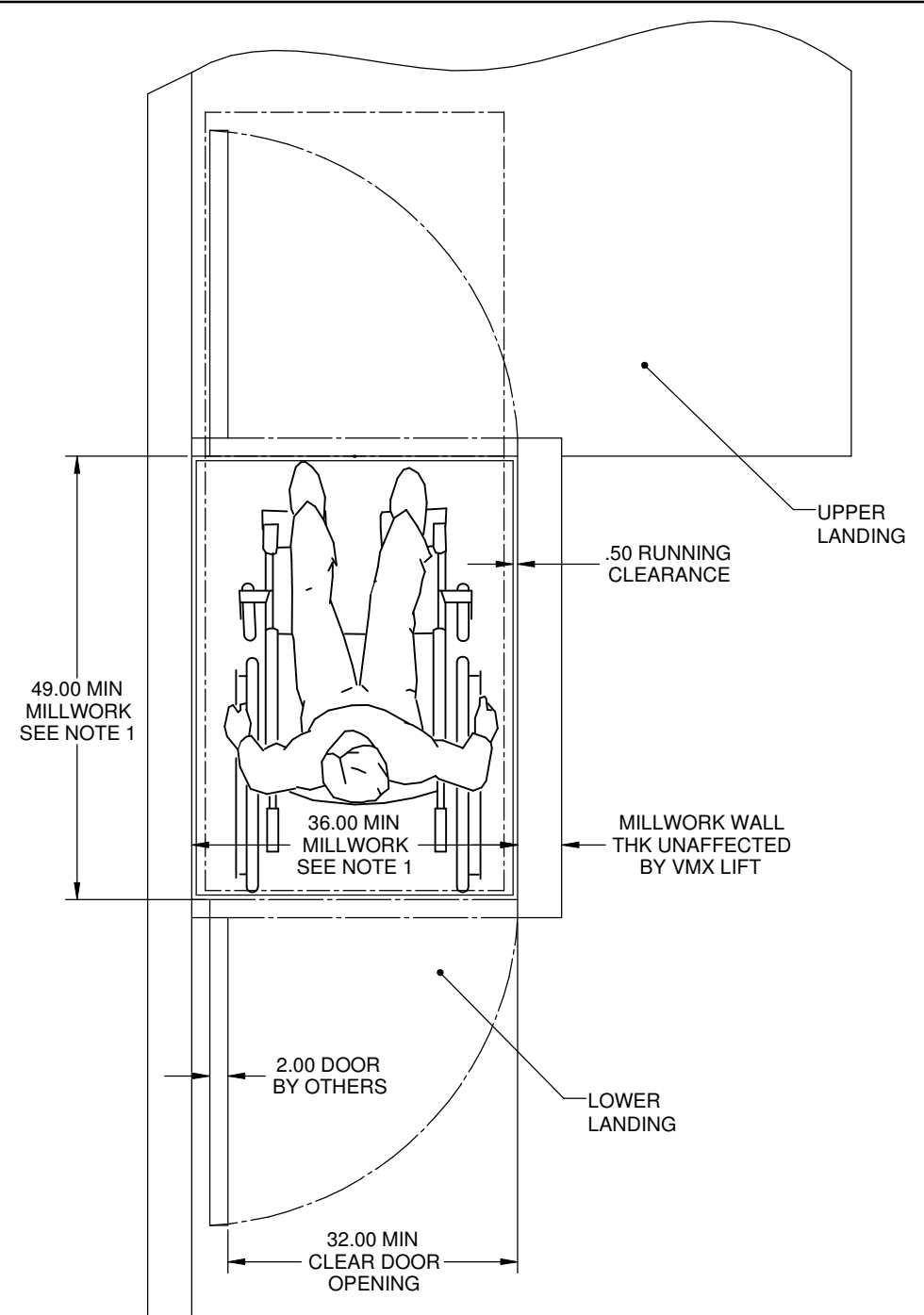
PERSPECTIVE VIEW



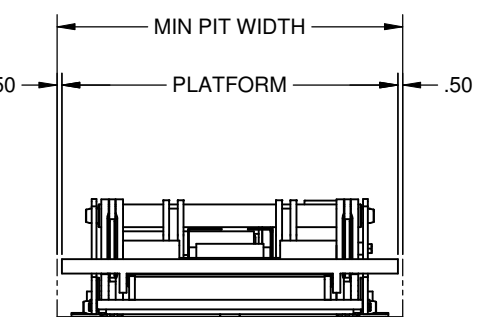
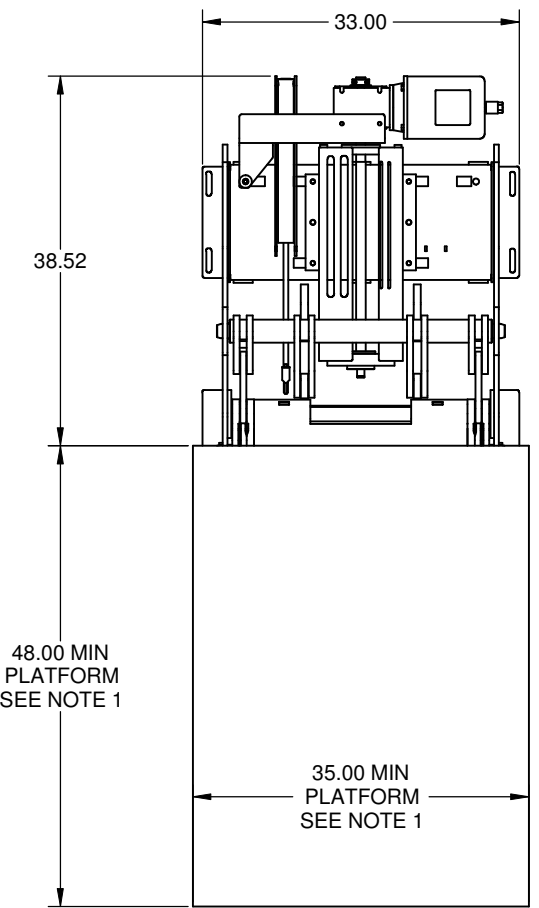
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DOCUMENT NO. 910-0071	SHEET NO. 1 OF 1	REVISION B	

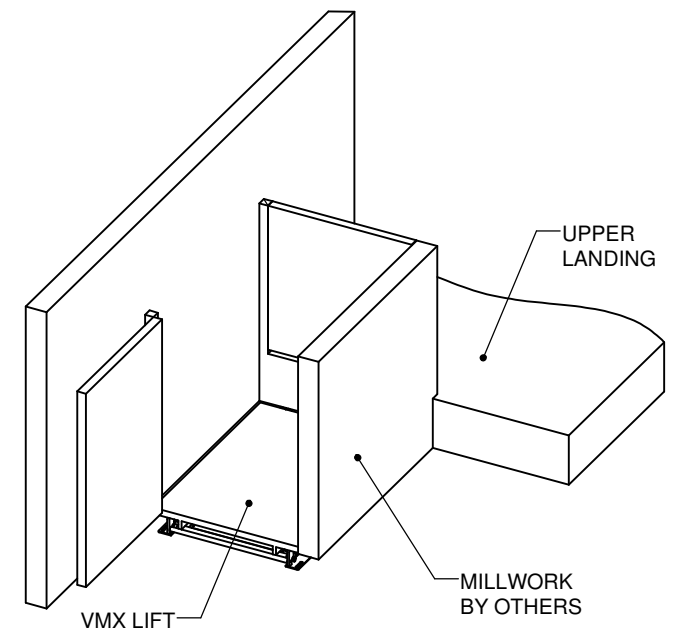
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REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		



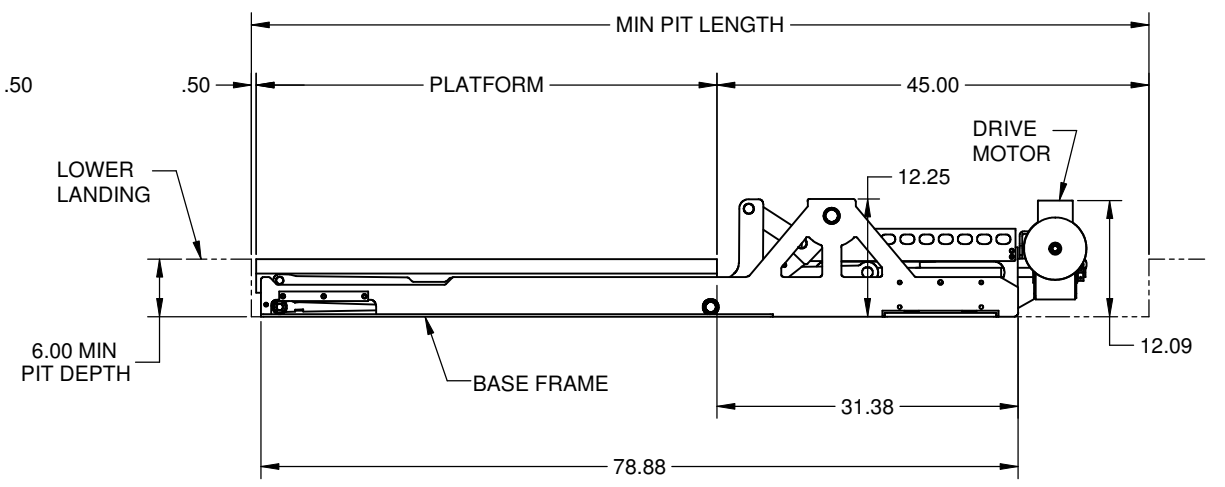
**VMX SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN**




VMX DETAILED LIFT TEMPLATE



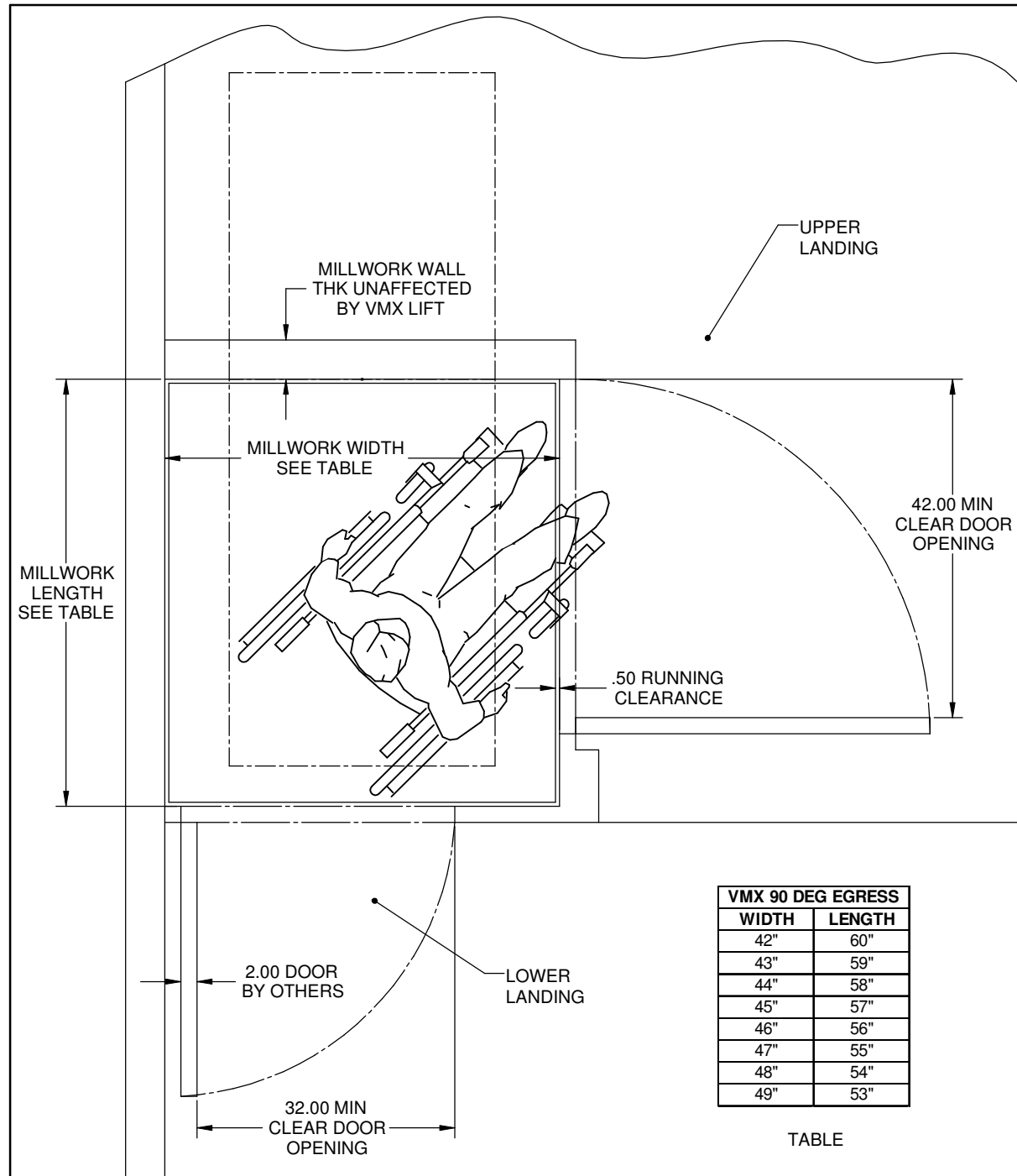
PERSPECTIVE VIEW



- NOTES:
1. MINIMUM PLATFORM DIMENSIONS ARE SHOWN. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 72" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMX.
 2. MAXIMUM VERTICAL TRAVEL IS 24".
 3. FOR LIFT APPLICATIONS THAT DO NOT CORRESPOND WITH LIFT-U'S STANDARD TEMPLATES, CONTACT LIFT-U FOR EVALUATION.
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	A DIVISION OF HOGAN MFG., INC.	
TITLE VMX TEMPLATE, LAYOUT A		
DOCUMENT NO. 910-0072	SHEET NO. 1 OF 1	REVISION A

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		



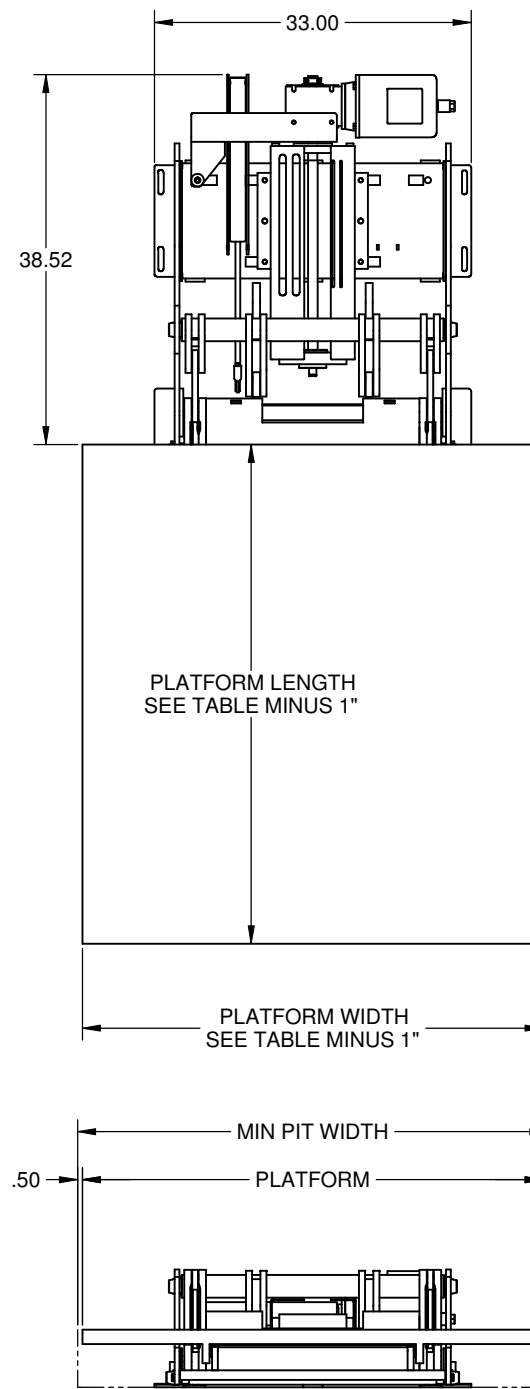
VMX 90 DEG EGRESS	
WIDTH	LENGTH
42"	60"
43"	59"
44"	58"
45"	57"
46"	56"
47"	55"
48"	54"
49"	53"

TABLE

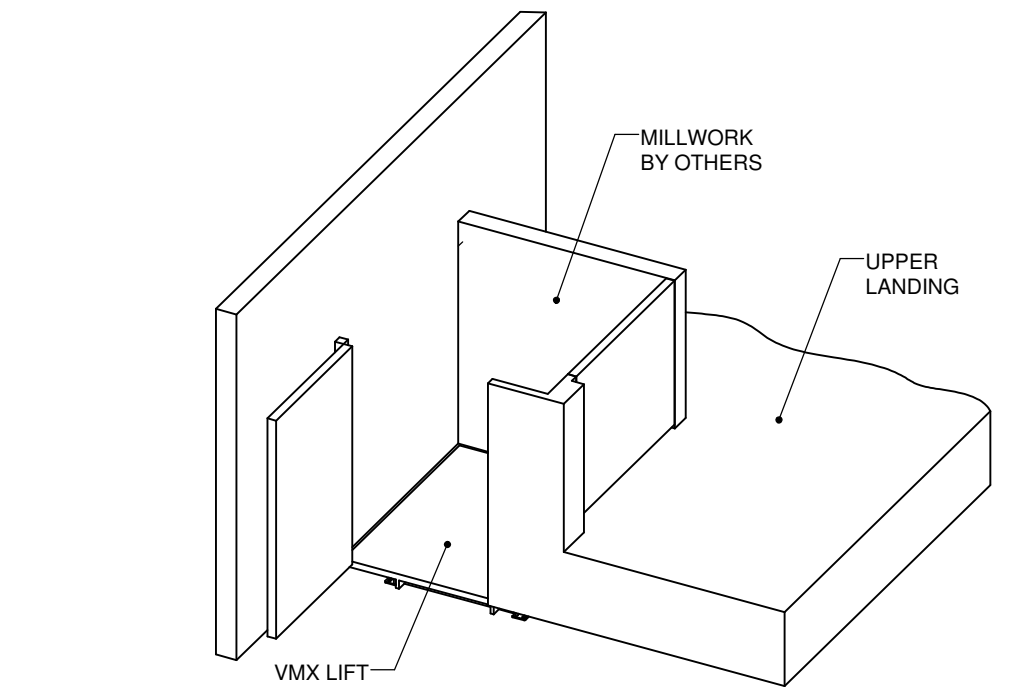
VMX SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN

NOTES:

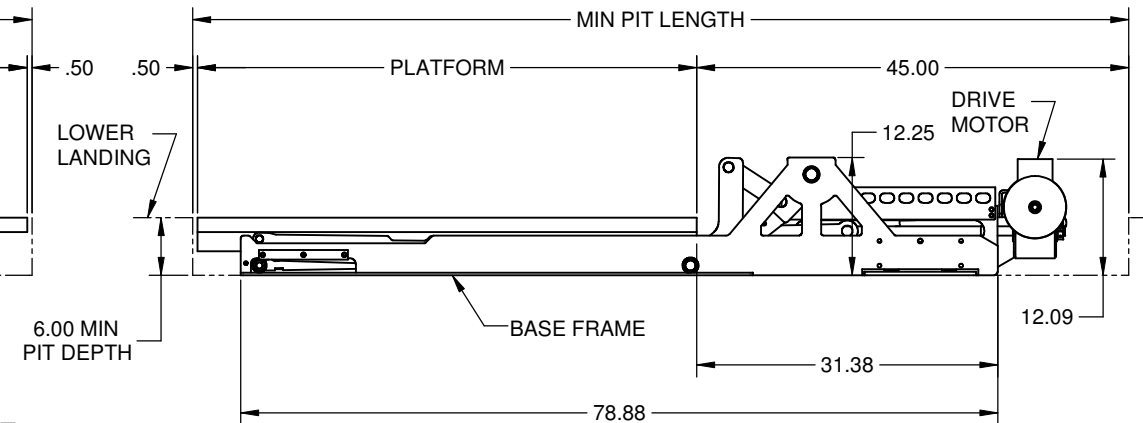
- SPECIFIC TO THIS CONFIGURATION, THE MINIMUM PLATFORM WIDTH CORRESPONDS TO THE MINIMUM PLATFORM LENGTH - REFER TO TABLE. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 72" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMX.
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VMX DETAILED LIFT TEMPLATE



PERSPECTIVE VIEW

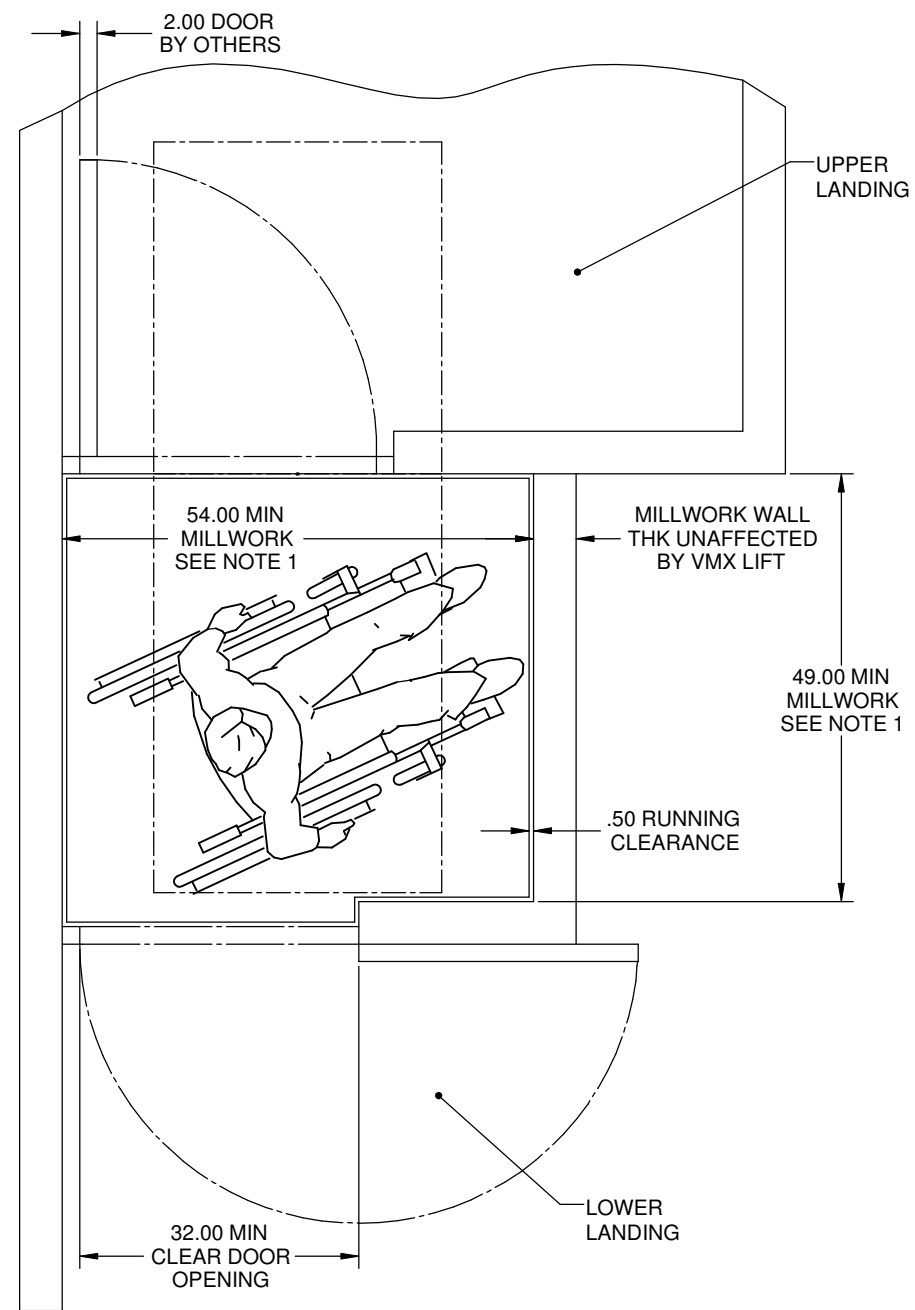


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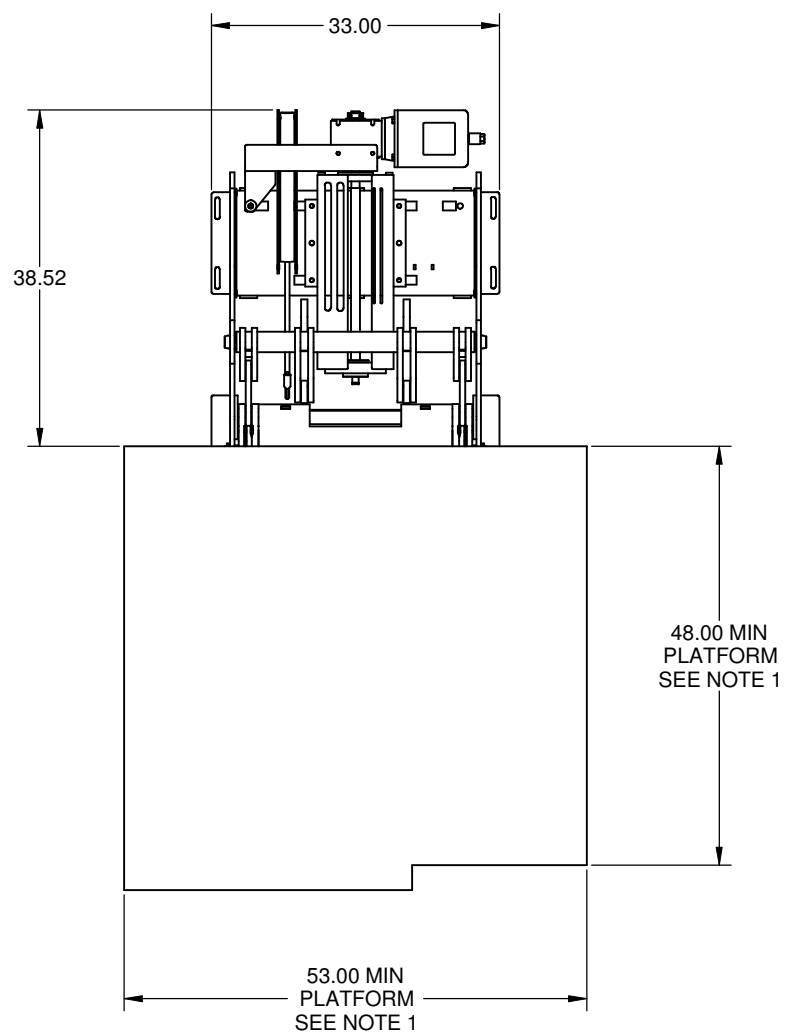
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TITLE	VMX TEMPLATE, LAYOUT B		
DOCUMENT NO.	910-0073	SHEET NO.	1 OF 1
		REVISION	A

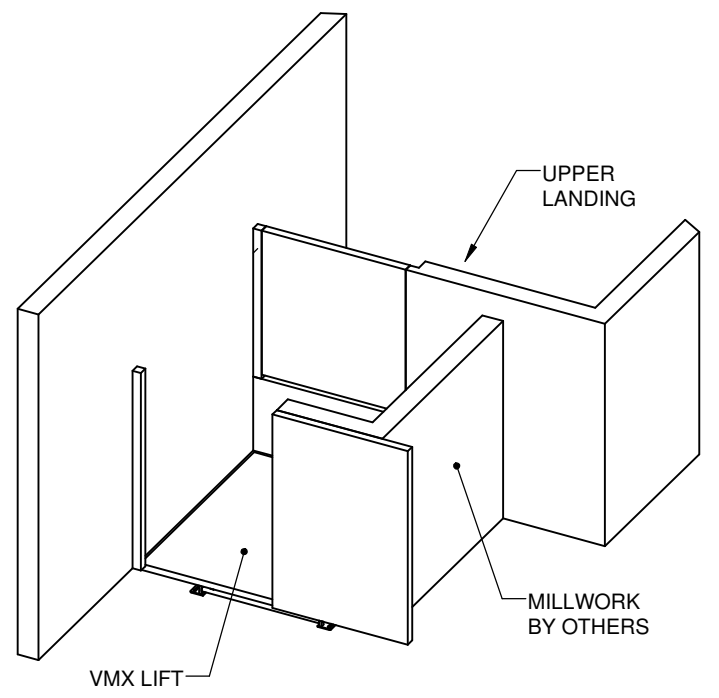
REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		



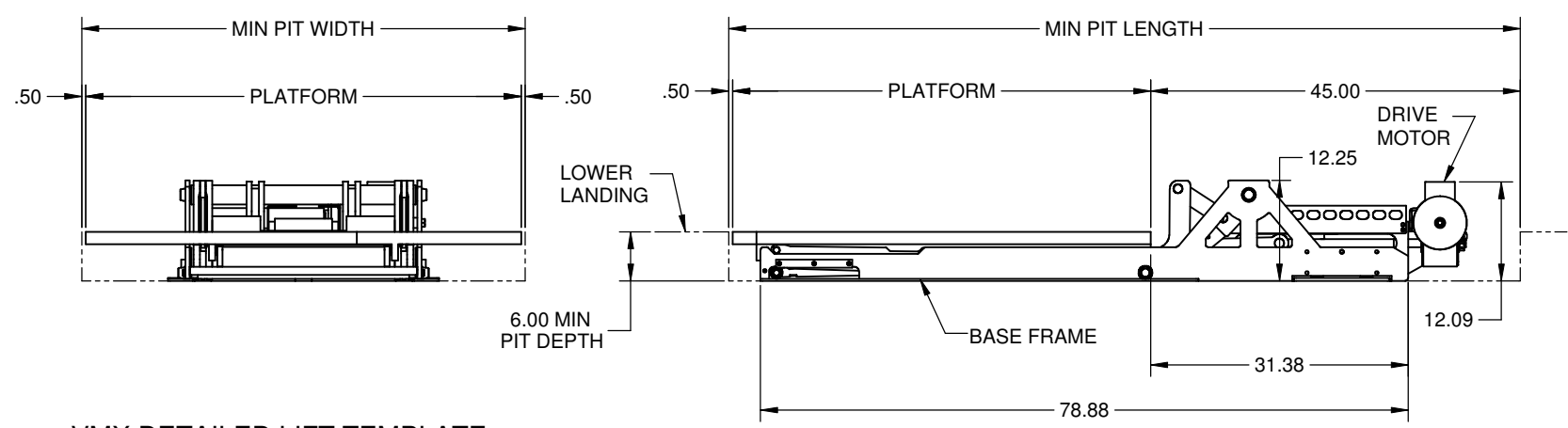
VMX SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN



VMX DETAILED LIFT TEMPLATE



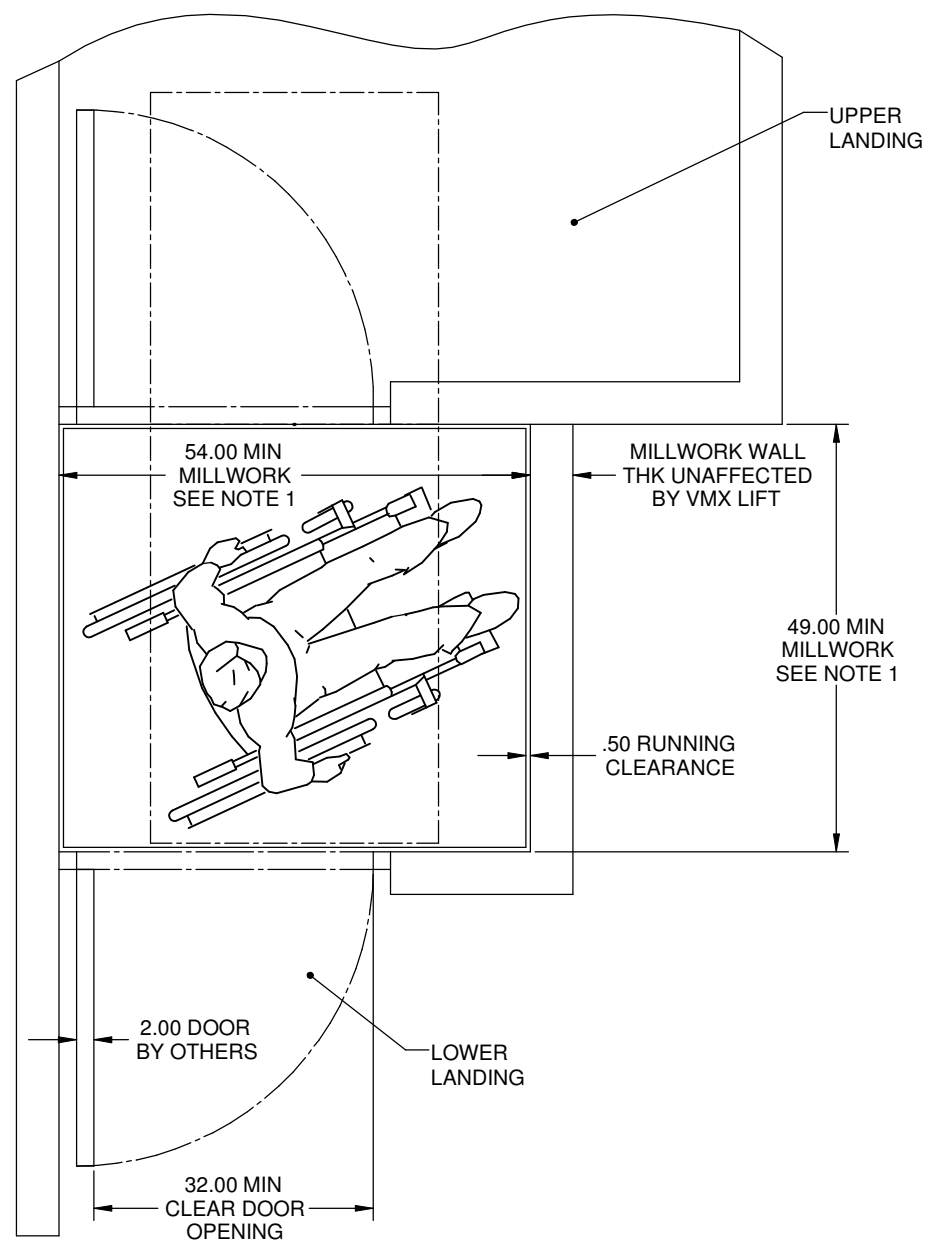
PERSPECTIVE VIEW



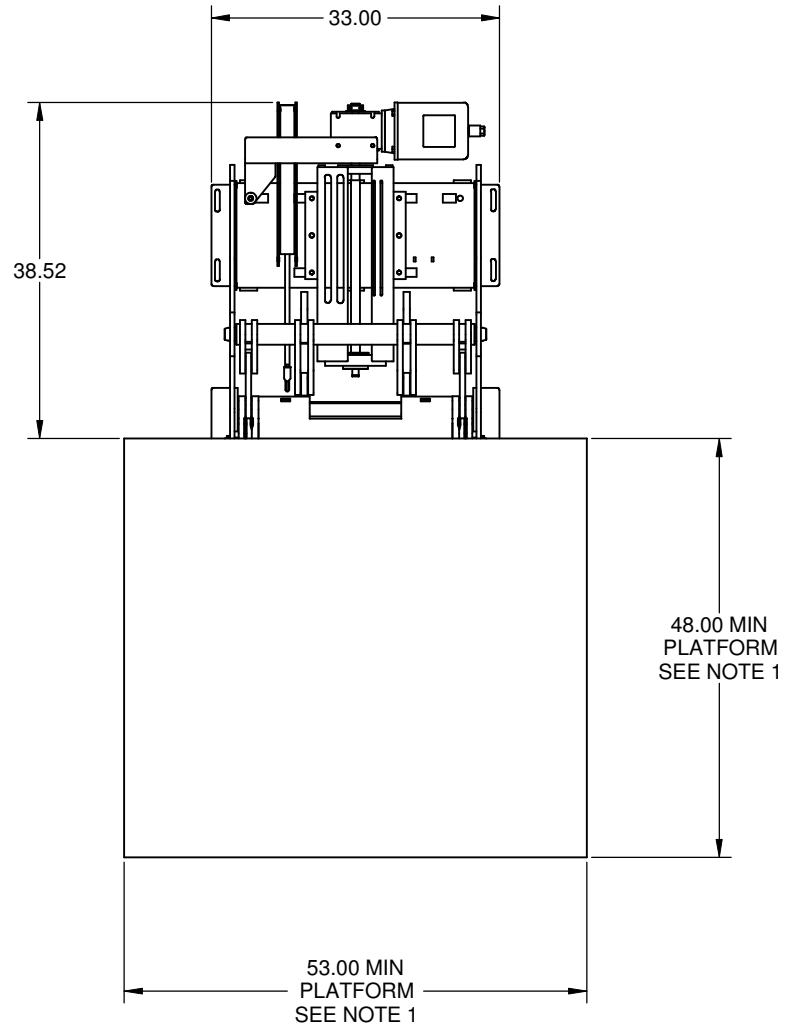
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 3. FOR LIFT APPLICATIONS THAT DO NOT CORRESPOND WITH LIFT-U'S STANDARD TEMPLATES, CONTACT LIFT-U FOR EVALUATION.
 4. FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMX LIFT APPLICATION GUIDELINES.

<p>LIFT-U P.O. BOX 398 ESCALON, CA. 95320 209-838-2400</p>	<p>THIS DOCUMENT IS AND CONTAINS CONFIDENTIAL TRADE SECRET INFORMATION OF THE COMPANY. NO PART OF IT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONICALLY, PHOTOCOPYING, RECORDING OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF HOGAN MFG, INC. THIS DOCUMENT IS LOANED FOR THE LIMITED PURPOSES STATED HEREIN ONLY, AND REMAINS THE PROPERTY OF THE COMPANY.</p>	
	<p>A DIVISION OF HOGAN MFG., INC.</p>	
<p>TITLE VMX TEMPLATE, LAYOUT C</p>		
<p>DOCUMENT NO. 910-0074</p>	<p>SHEET NO. 1 OF 1</p>	<p>REVISION A</p>

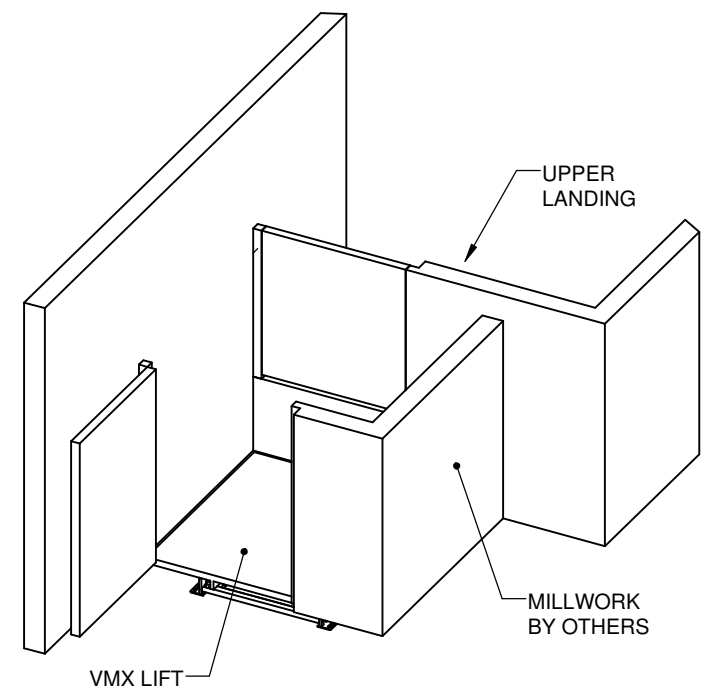
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REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	CAL	3/4/09		



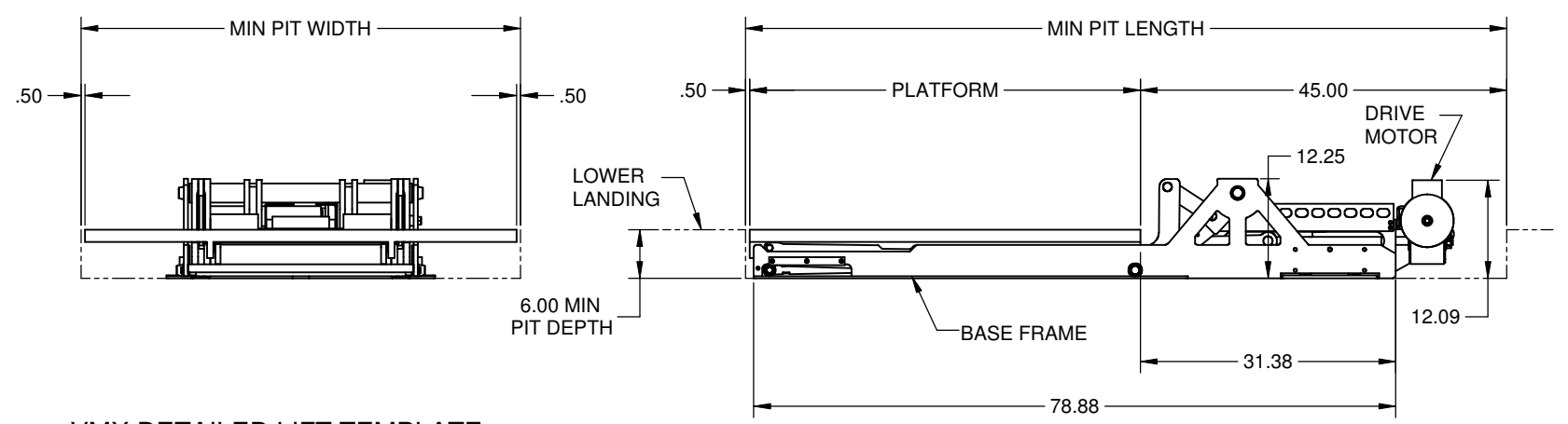
VMX SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN




VMX DETAILED LIFT TEMPLATE



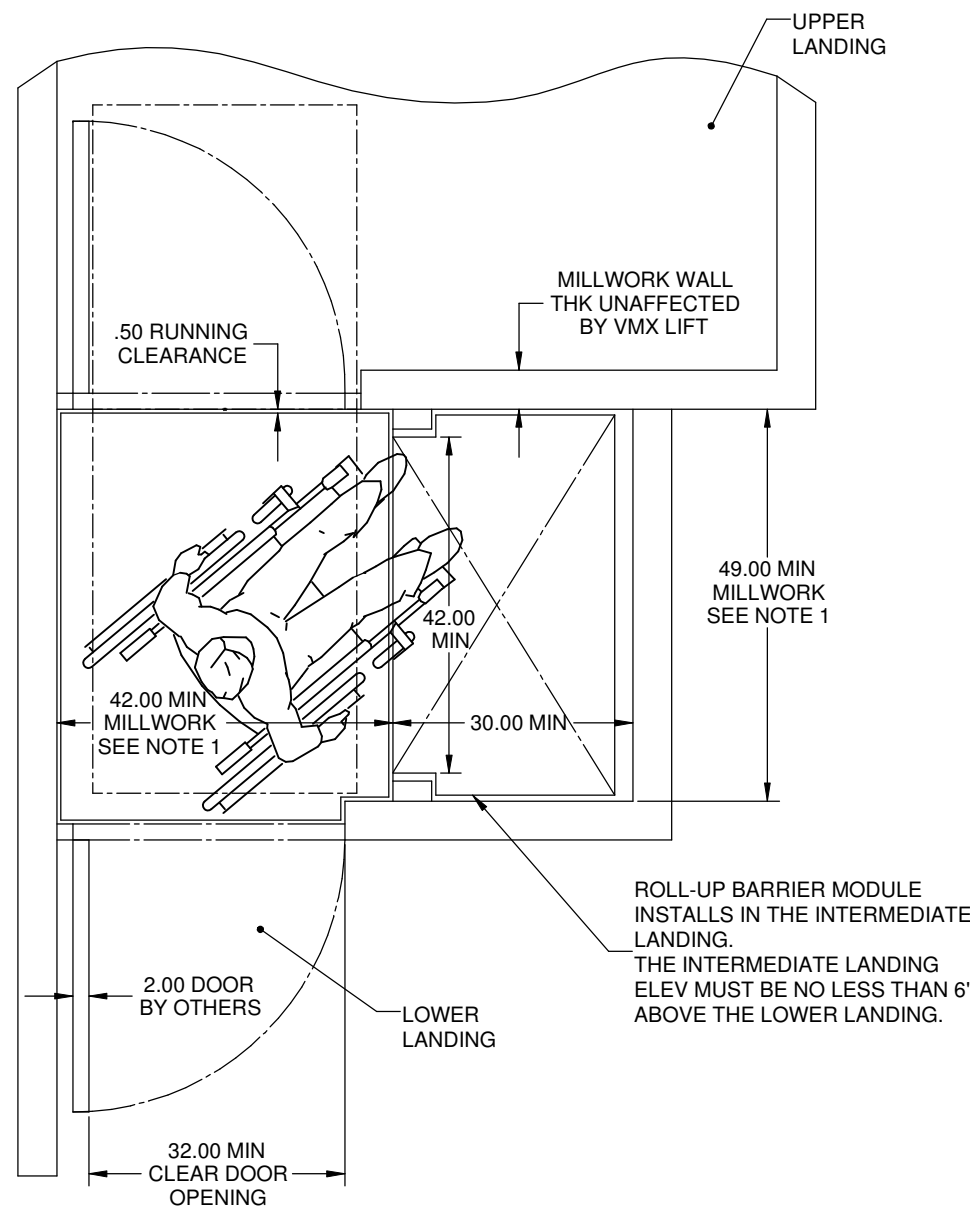
PERSPECTIVE VIEW



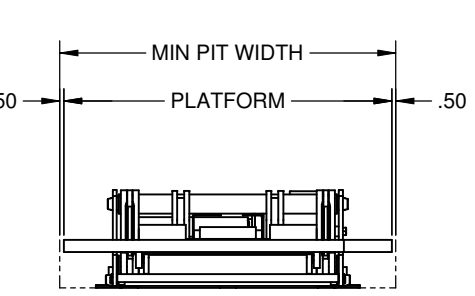
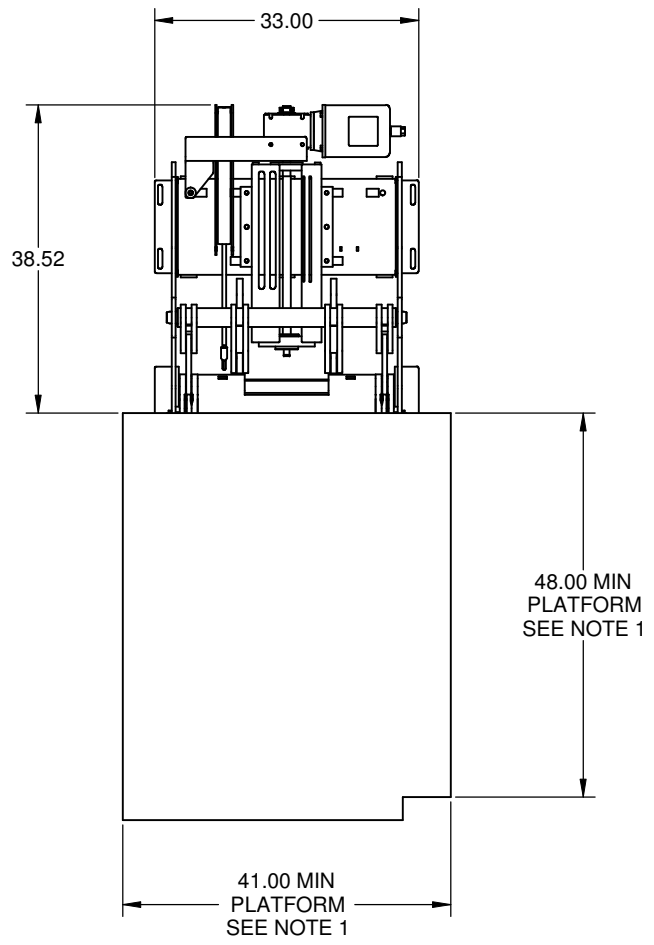
- NOTES:
1. MINIMUM PLATFORM DIMENSIONS ARE SHOWN. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 72" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMX.
 2. MAXIMUM VERTICAL TRAVEL IS 24".
 3. FOR LIFT APPLICATIONS THAT DO NOT CORRESPOND WITH LIFT-U'S STANDARD TEMPLATES, CONTACT LIFT-U FOR EVALUATION.
 4. FOR ADDITIONAL INFORMATION, INCLUDING MILLWORK INTERFACE DETAILS, REFER TO VMX LIFT APPLICATION GUIDELINES.

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	A DIVISION OF HOGAN MFG., INC.		
TITLE VMX TEMPLATE, LAYOUT D		SHEET NO. 1 OF 1	REVISION A
DOCUMENT NO. 910-0075			

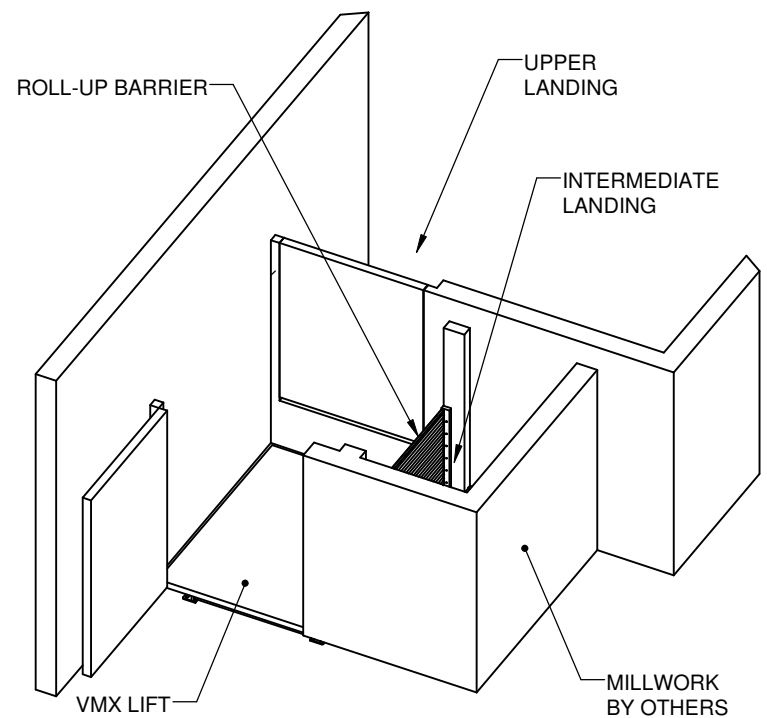
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A		RELEASED	CAL	3/4/09		



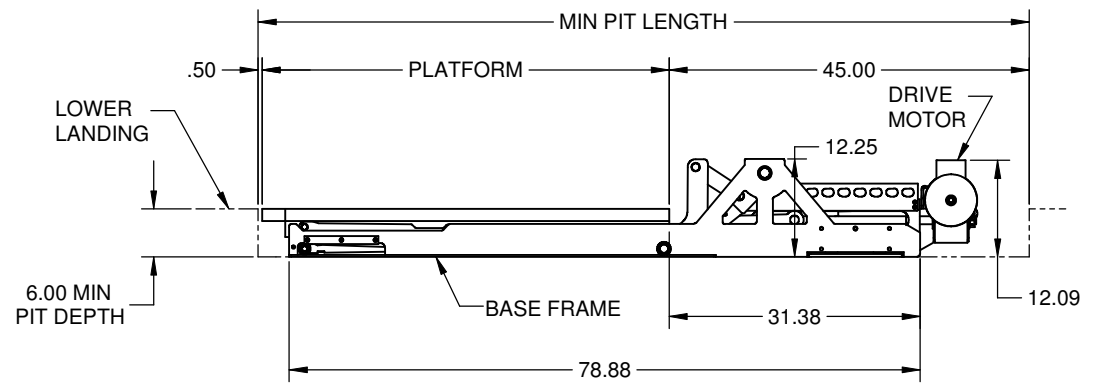
VMX SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN




VMX DETAILED LIFT TEMPLATE



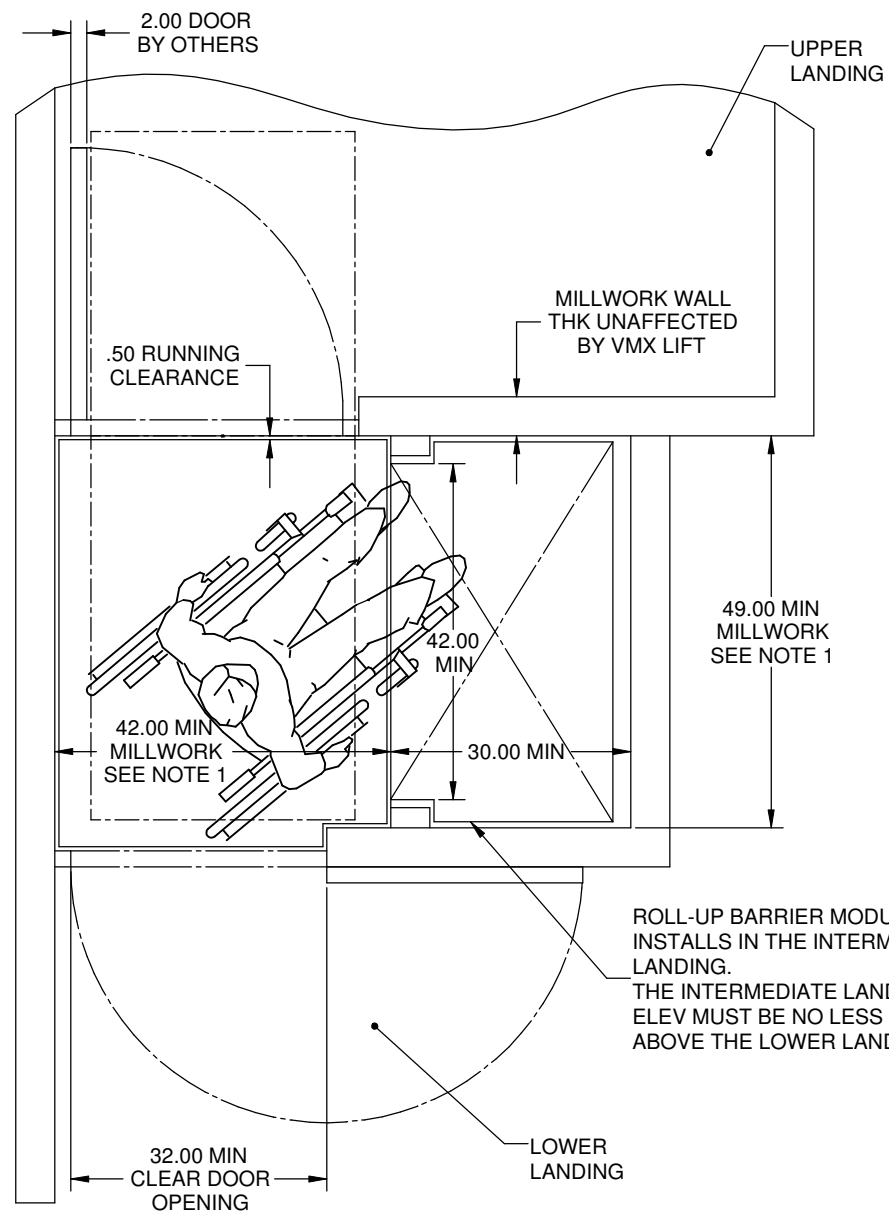
PERSPECTIVE VIEW



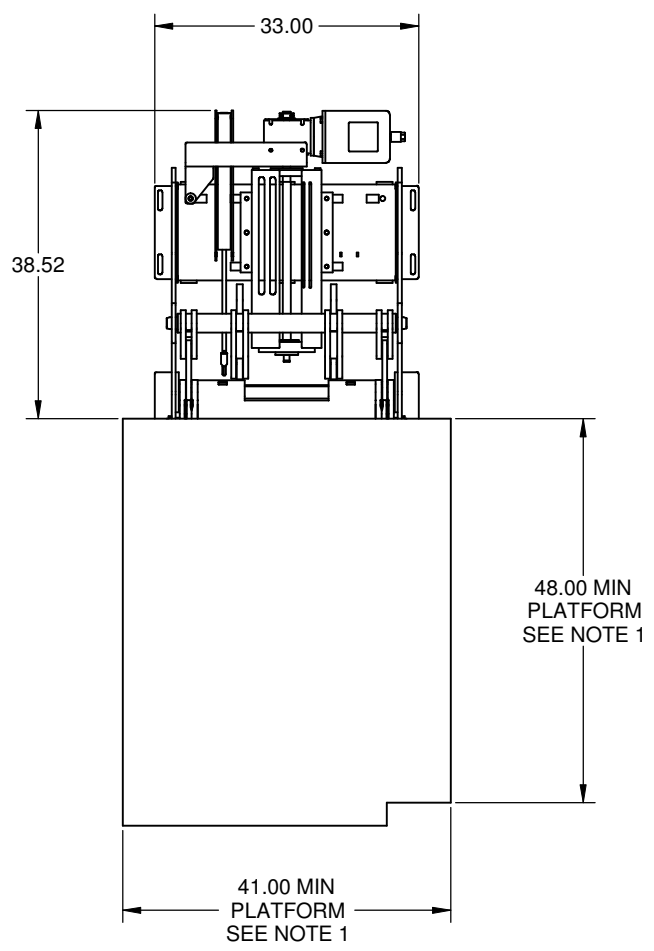
- NOTES:
1. MINIMUM PLATFORM DIMENSIONS ARE SHOWN. PLATFORMS MEASURING AT LEAST 18 SQ. FT. ARE PREFERRED; BUT SHOULD NOT EXCEED 25 SQ. FT. BE ADVISED, 72" IN THE LONG DIRECTION IS LIFT-U'S ABSOLUTE "DO NOT EXCEED" DIMENSION FOR THE VMX.
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	TITLE VMX TEMPLATE, LAYOUT E	
DOCUMENT NO. 910-0076	SHEET NO. 1 OF 1	REVISION A

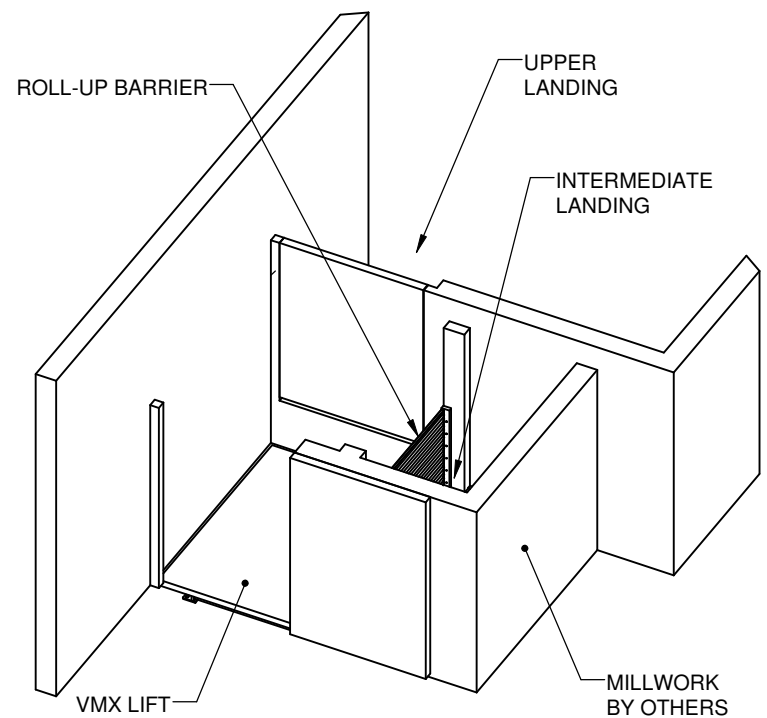
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A		RELEASED	CAL	3/4/09		



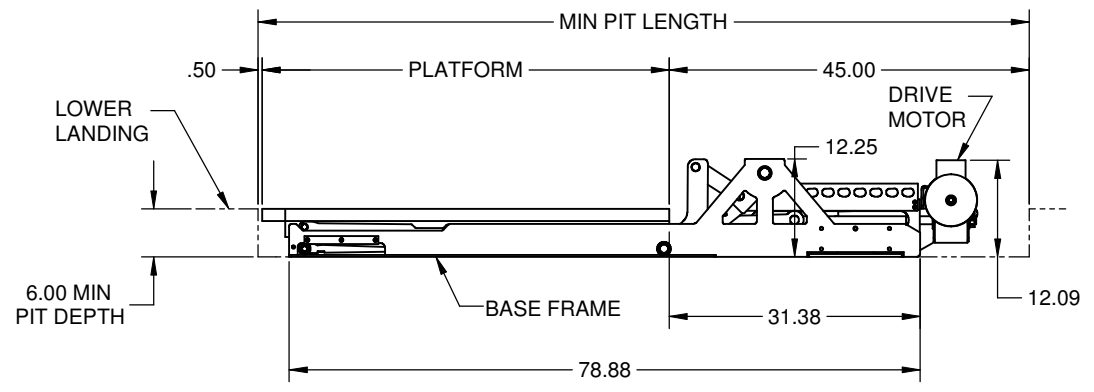
VMX SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN




VMX DETAILED LIFT TEMPLATE



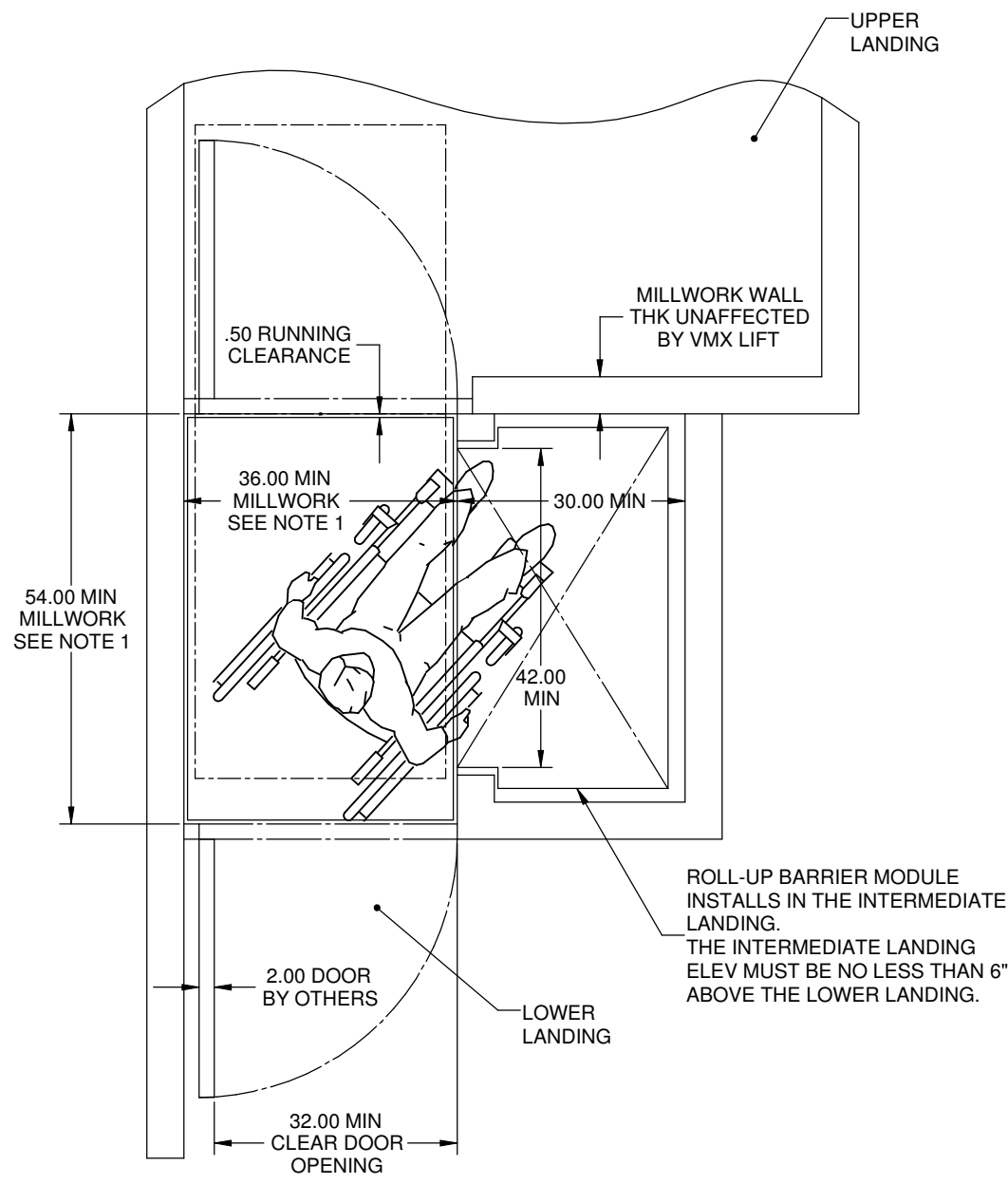
PERSPECTIVE VIEW



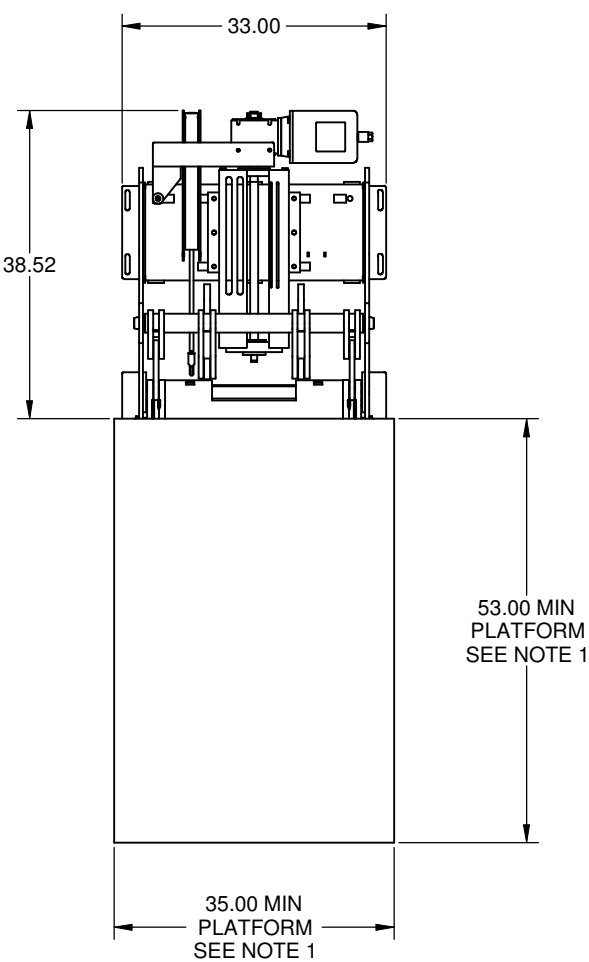
- NOTES:
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	A DIVISION OF HOGAN MFG., INC.	
TITLE VMX TEMPLATE, LAYOUT F		
DOCUMENT NO. 910-0077	SHEET NO. 1 OF 1	REVISION A

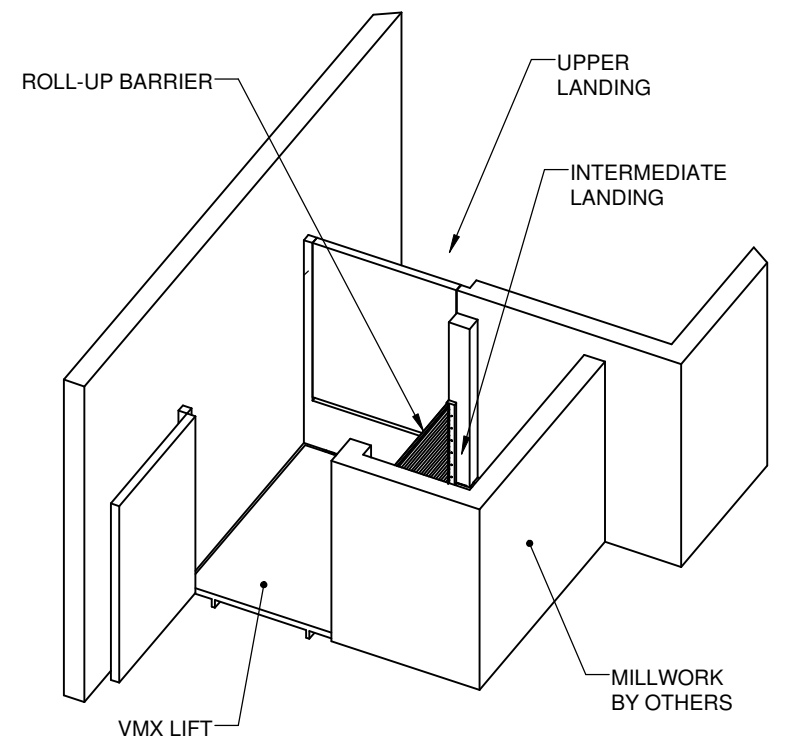
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A		RELEASED	CAL	3/4/09		



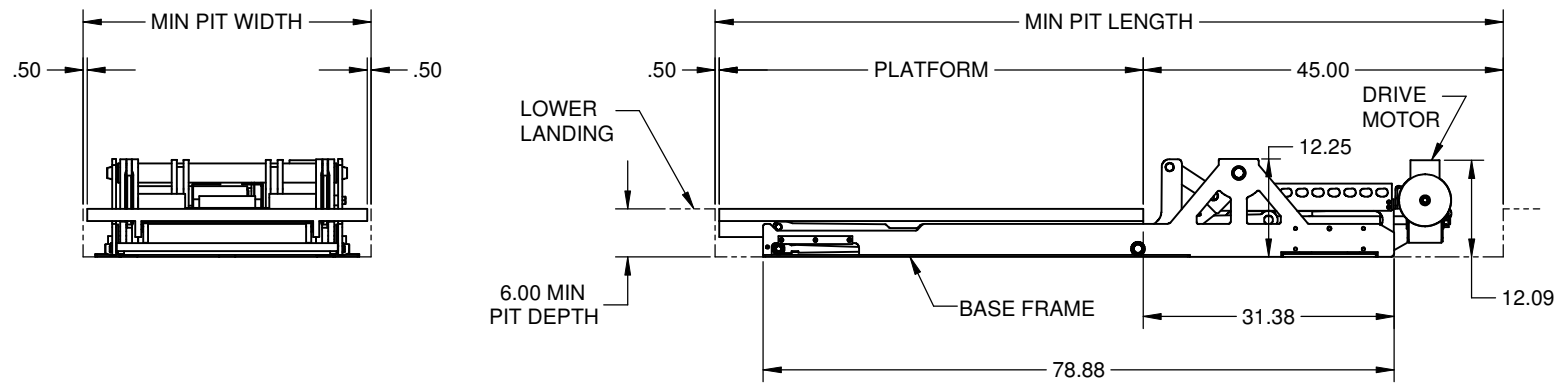
VMX SIMPLE TEMPLATE
MILLWORK FOOTPRINT SHOWN




VMX DETAILED LIFT TEMPLATE



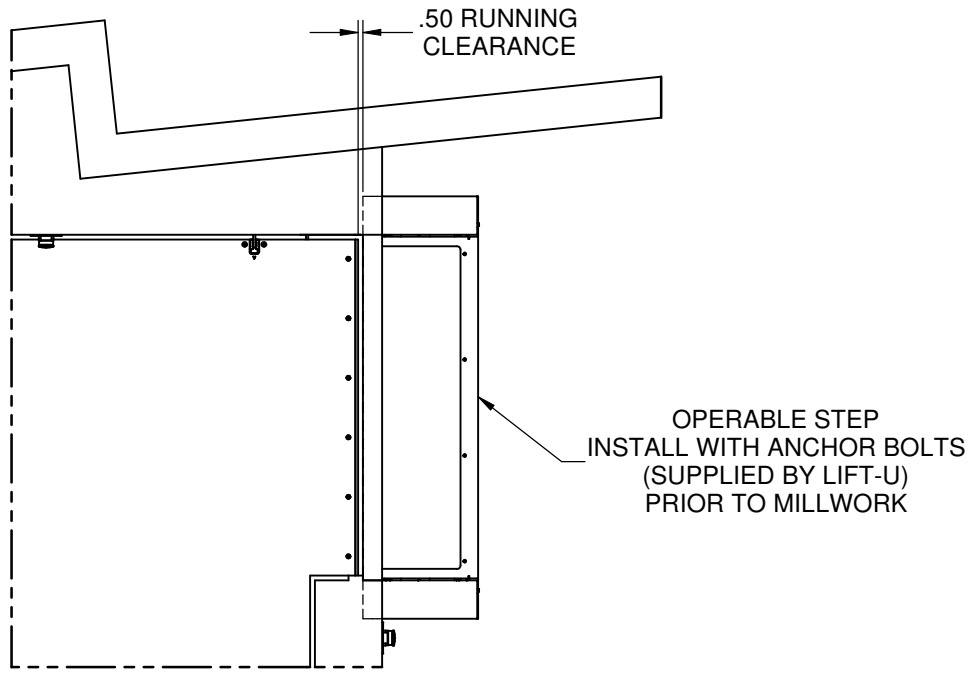
PERSPECTIVE VIEW



- NOTES:
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	TITLE VMX TEMPLATE, LAYOUT G	
DOCUMENT NO. 910-0078	SHEET NO. 1 OF 1	REVISION A

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED				



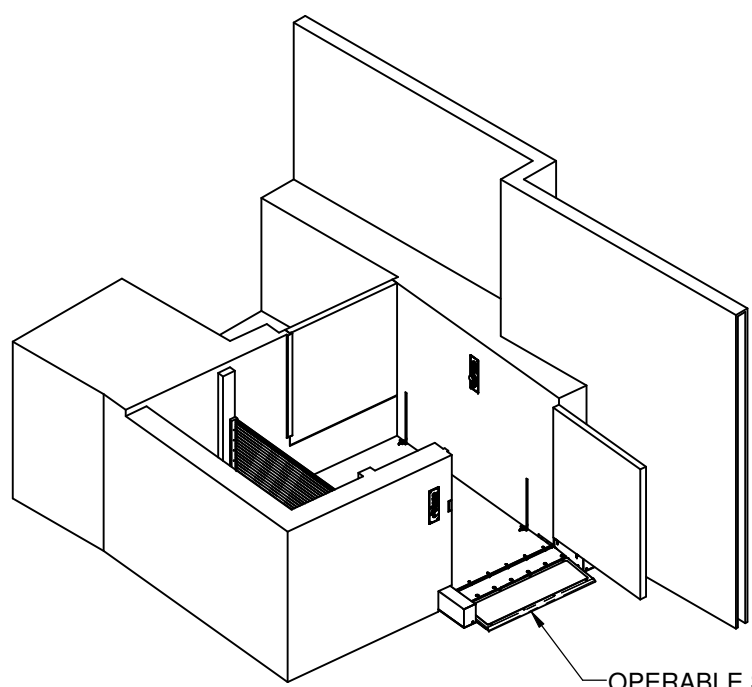
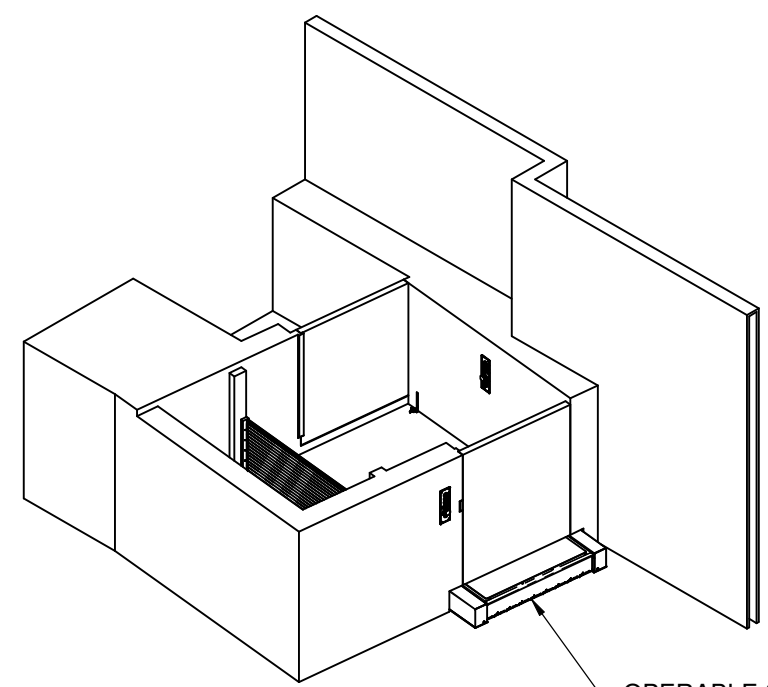
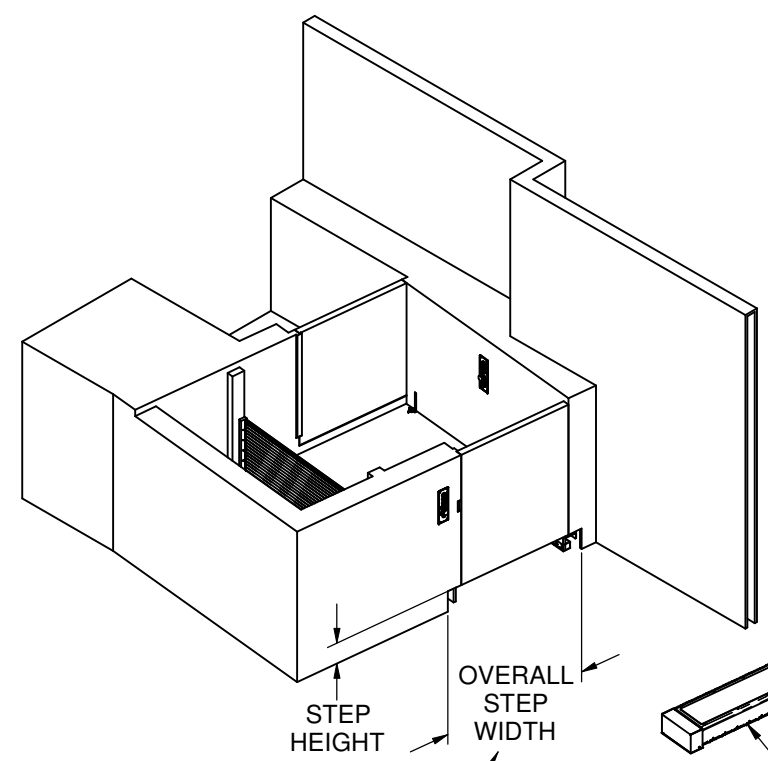
PLAN VIEW WITH OPERABLE STEP IN "STEP" POSITION

NOTES:

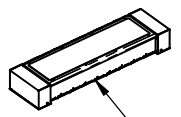
THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED OPERABLE STEP / MILLWORK INTERFACE.

THE OPERABLE STEP HEIGHT AND WIDTH WILL VARY FOR EACH APPLICATION. THEREFORE, FOR EACH PROJECT APPLICATION REFER TO ITS CORRESPONDING LIFT CONFIGURATION DRAWING FOR GENERAL ARRANGEMENT LAYOUT, LIFT ENVELOPE DIMENSIONS, AND OPERABLE STEP MODULE DIMENSIONS.

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT ARE FURNISHED AND INSTALLED BY OTHERS.



CUT MILLWORK FOR 1/4" TO 1/2" CLEARANCE ALL-AROUND



OPERABLE STEP

OPERABLE STEP IN "STEP" POSITION

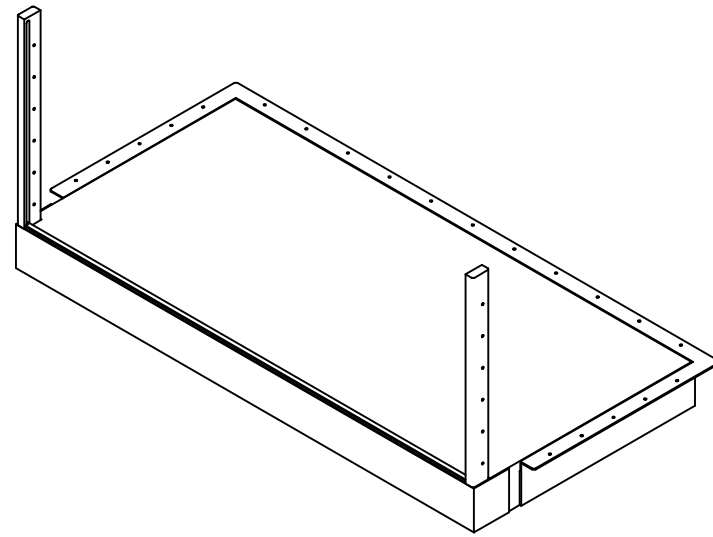
OPERABLE STEP IN "RAMP" POSITION



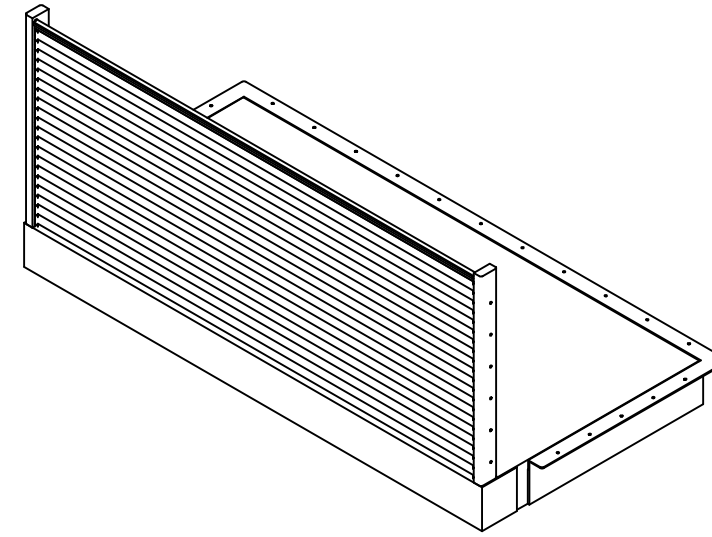
LIFT-U[®]
 P.O. BOX 398
 ESCALON, CA. 95320
 209-838-2400
 A DIVISION OF
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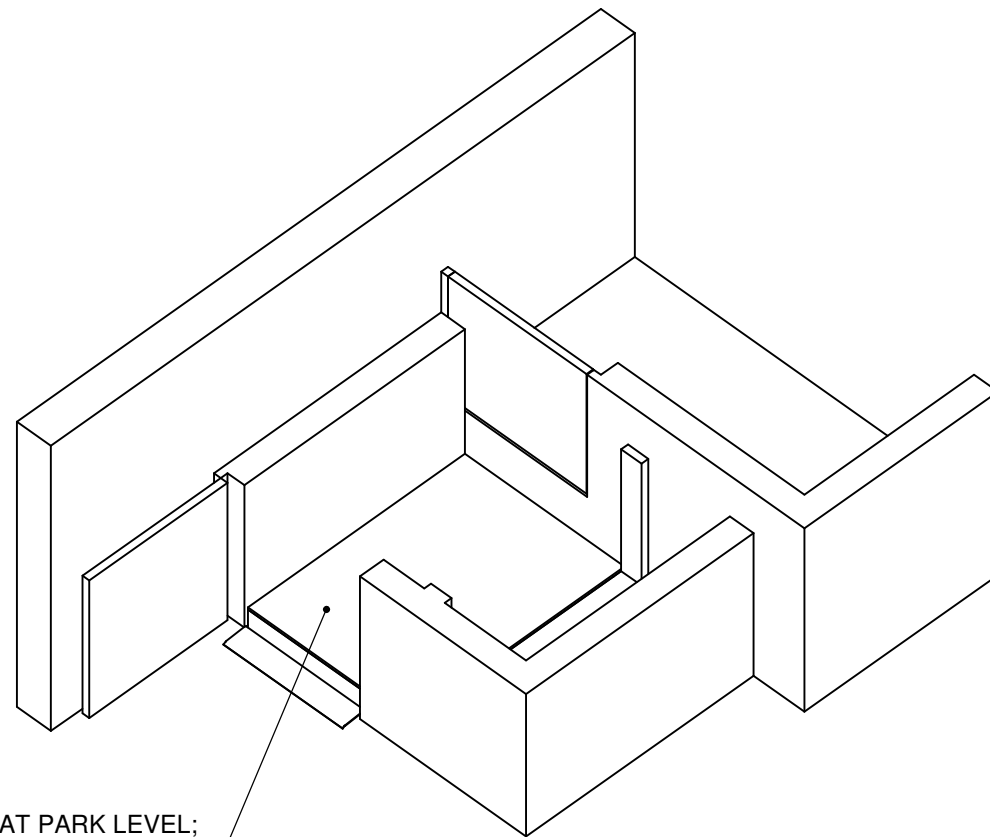
TITLE		OPERABLE STEP / MILLWORK INTERFACE	
DOCUMENT NO.	910-0085	SHEET NO.	1 OF 1
		REVISION	A



ROLL-UP BARRIER (STOWED)

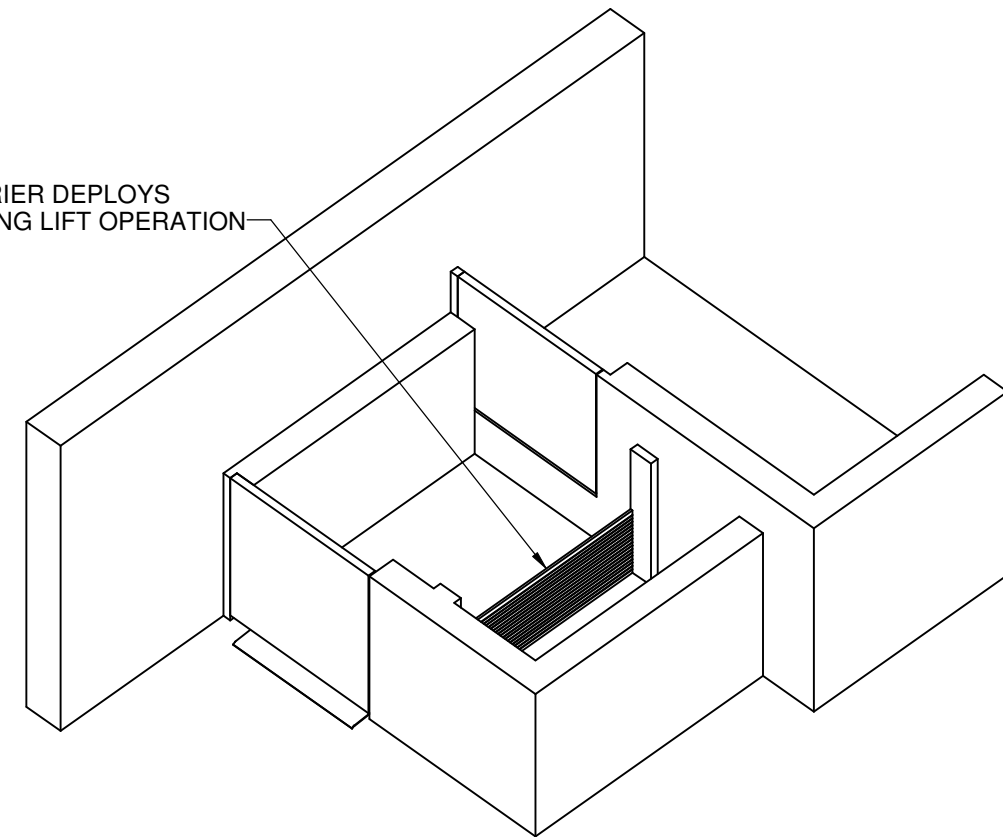


ROLL-UP BARRIER (DEPLOYED)



LIFT AT PARK LEVEL;
BARRIER IS STOWED

BARRIER DEPLOYS
DURING LIFT OPERATION



ACCESSOR LIFT WITH ROLL-UP BARRIER



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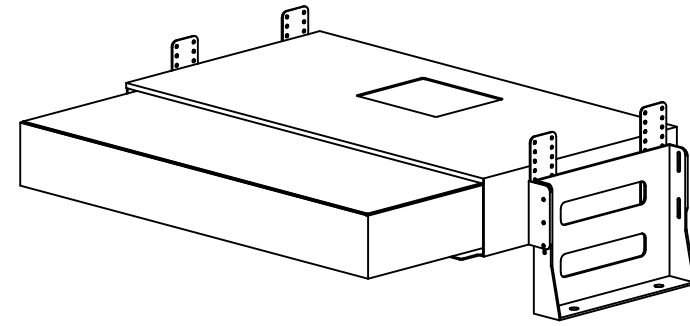
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THE PROPERTY OF THE COMPANY.

TITLE **ROLL-UP BARRIER OVERVIEW**

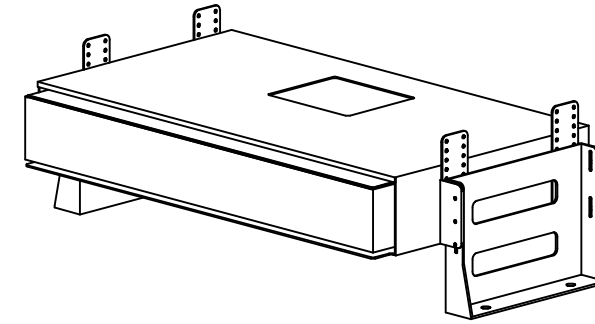
DOCUMENT NO. **910-0088**

SHEET NO.
1 OF 1

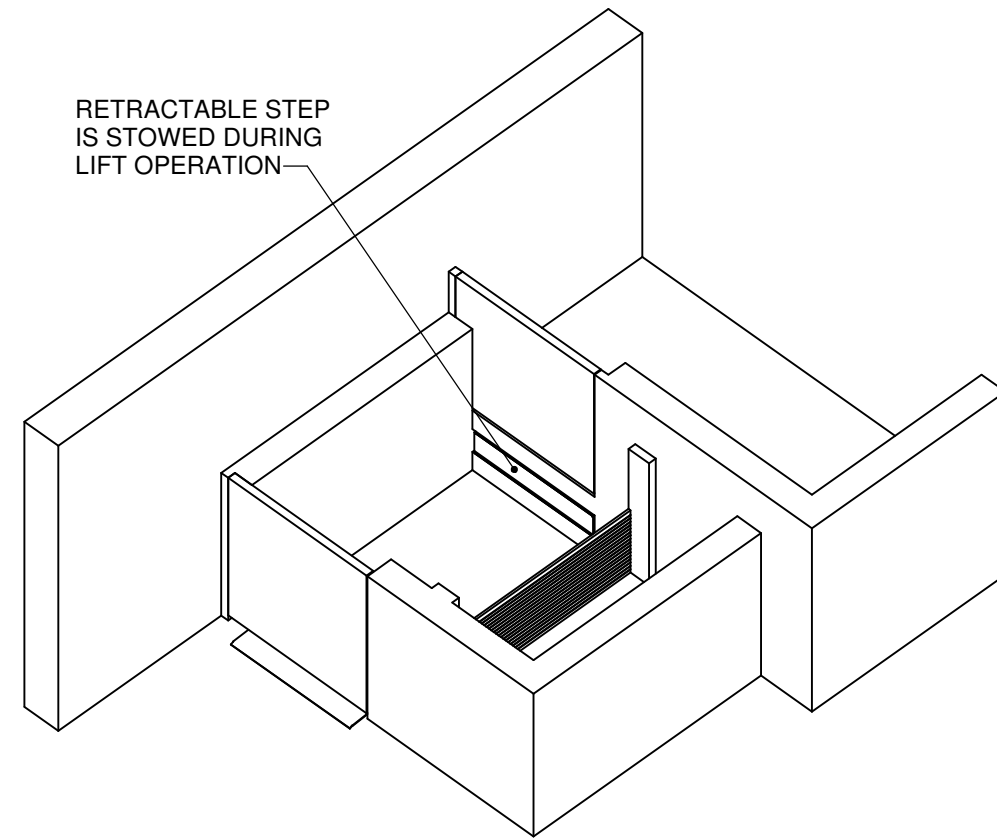
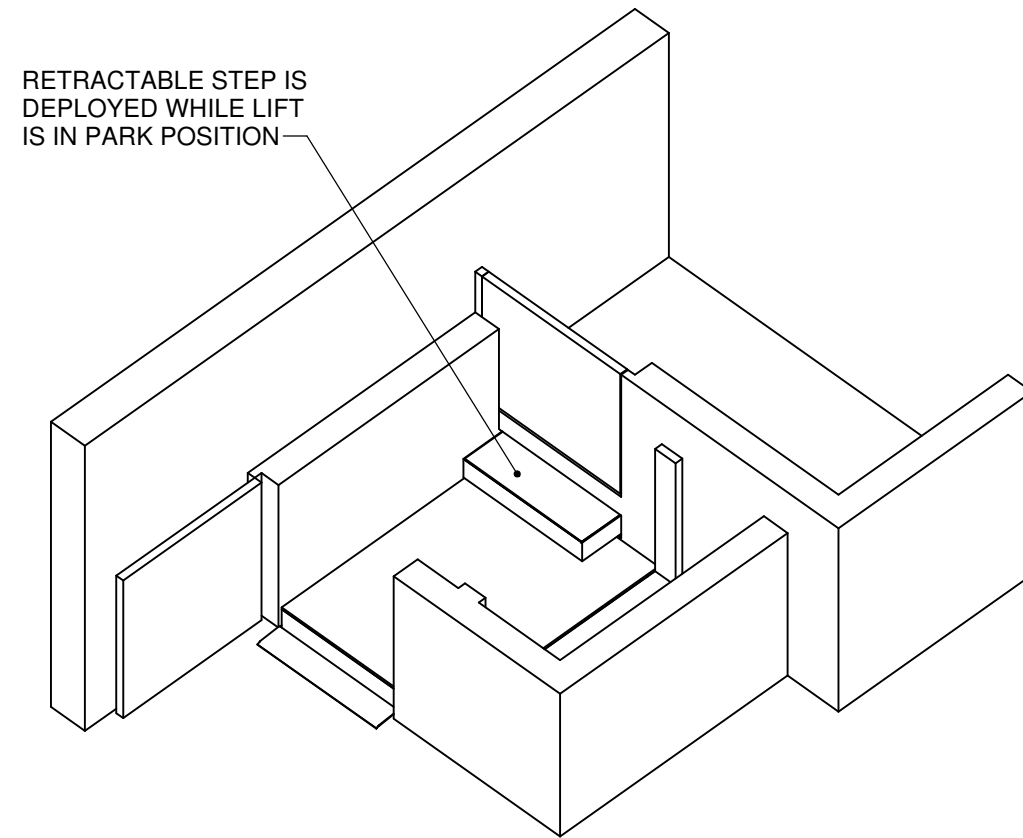
REVISION
A



RETRACTABLE STEP (DEPLOYED)



RETRACTABLE STEP (STOWED)



ACCESSOR LIFT WITH RETRACTABLE STEP



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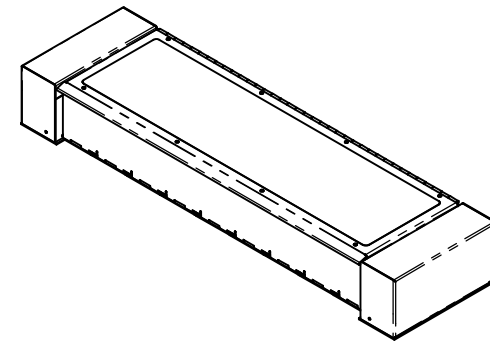
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TITLE **RETRACTABLE STEP OVERVIEW**

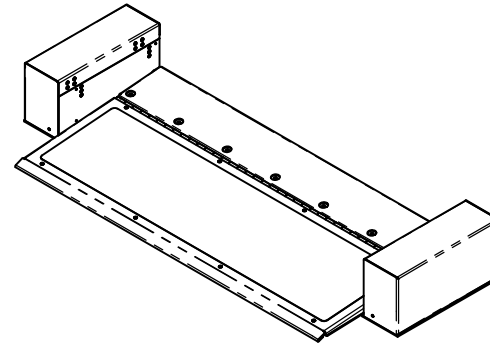
DOCUMENT NO. **910-0089**

SHEET NO. **1 OF 1**

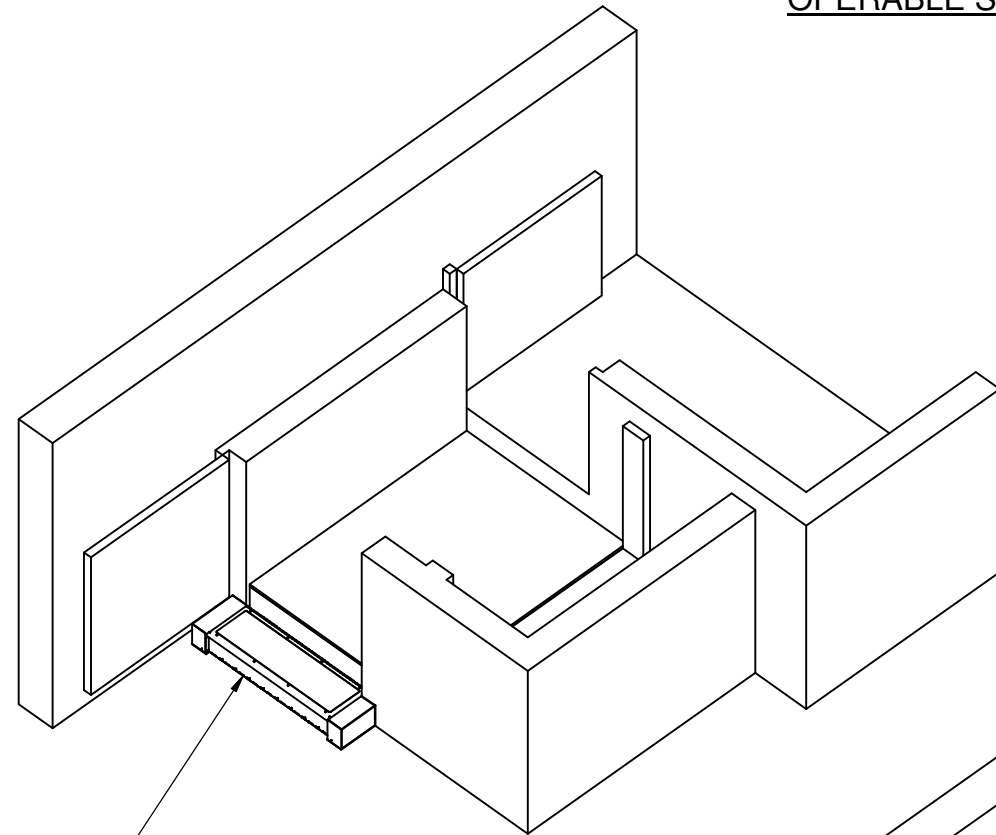
REVISION **A**



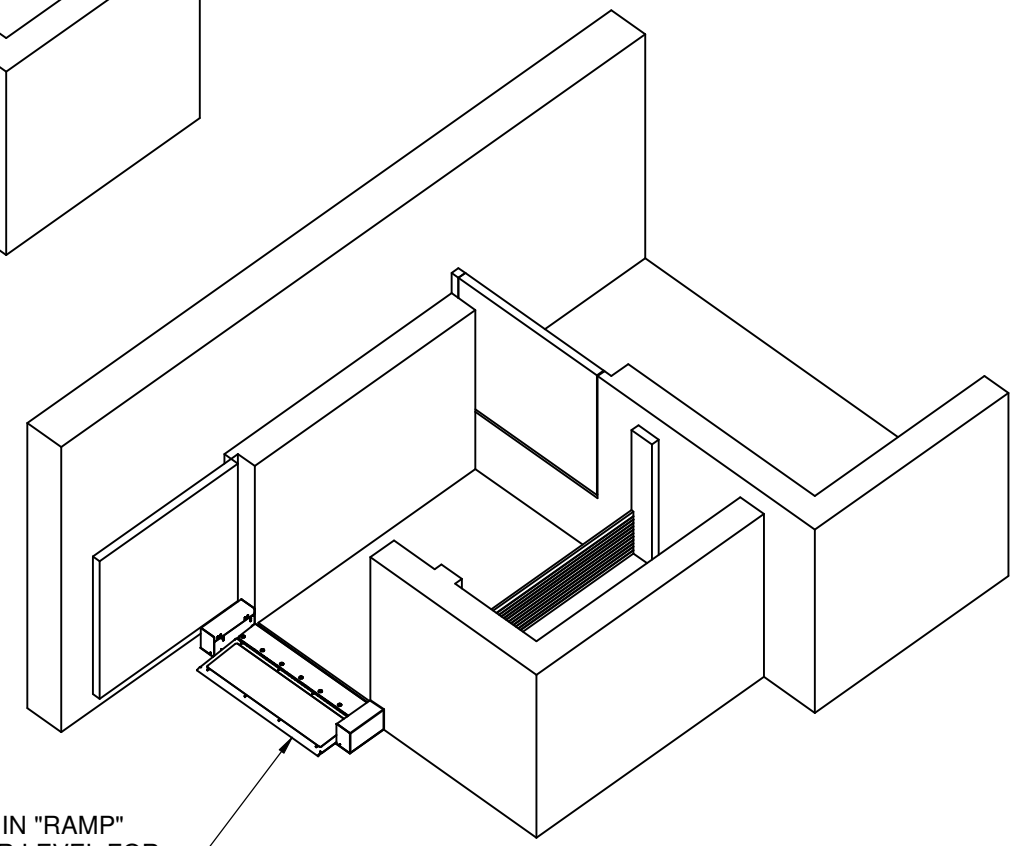
OPERABLE STEP (STEP POSITION)



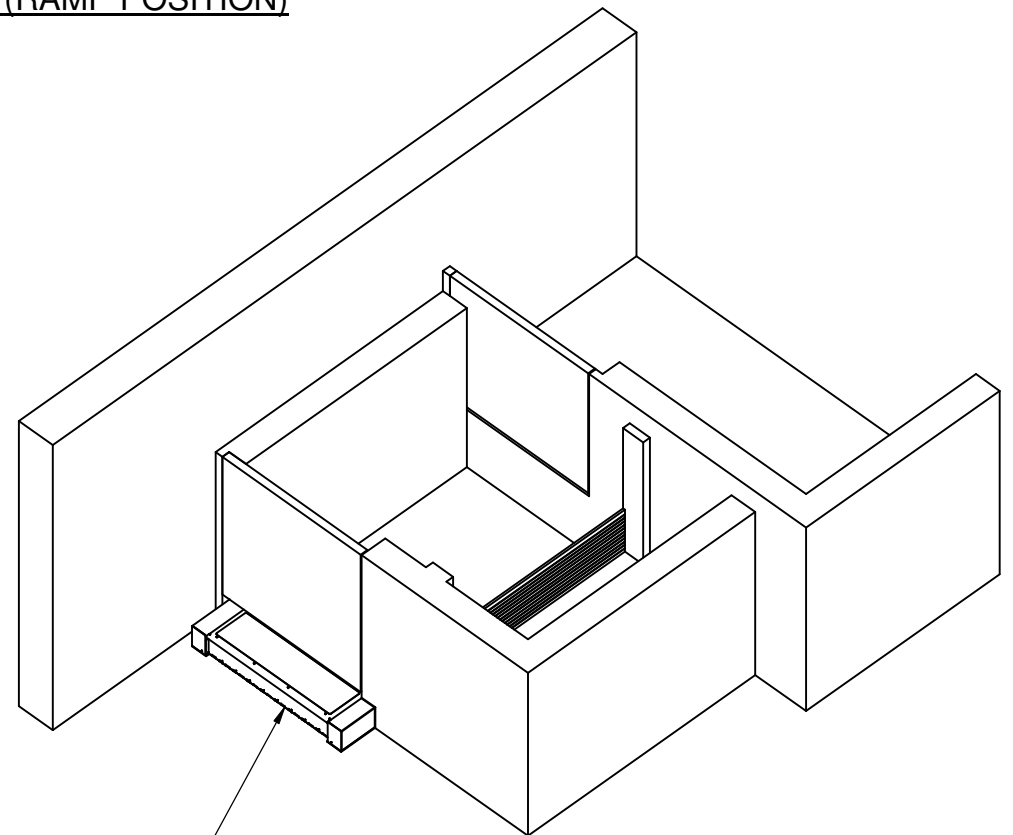
OPERABLE STEP (RAMP POSITION)



OPERABLE STEP IS IN "STEP" POSITION WHILE LIFT IS PARKED




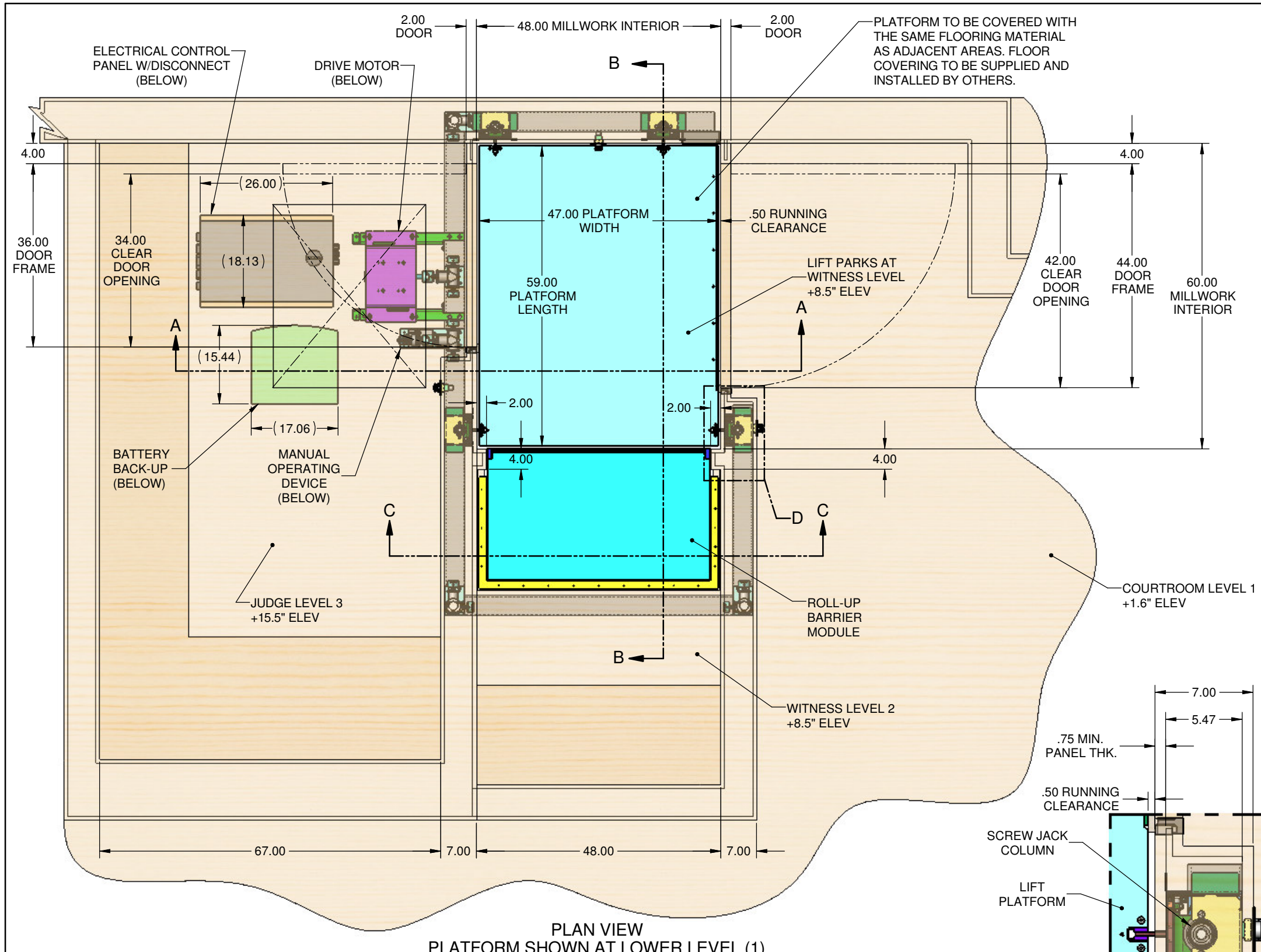
OPERABLE STEP IS IN "RAMP" POSITION AT LOWER LEVEL FOR PASSENGER INGRESS/EGRESS



OPERABLE STEP IS IN "STEP" POSITION DURING LIFT OPERATION

ACCESSOR LIFT WITH OPERABLE STEP

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TITLE OPERABLE STEP OVERVIEW		
DOCUMENT NO. 910-0090	SHEET NO. 1 OF 1	REVISION A



THIS DRAWING ILLUSTRATES A LIFT PLATFORM AND OPERATING MECHANISM WITHIN THE PARAMETERS OF MILLWORK WALLS. THE LIFT PLATFORM REQUIRES 3/8" MINIMUM TO 3/4" MAXIMUM RUNNING CLEARANCE WITH ADJACENT MILLWORK FINISHED SURFACES. THE MILLWORK SHOWN IS FOR ILLUSTRATIVE REFERENCE ONLY. DIMENSIONAL EXTENTS OF THE MILLWORK IS THE RESPONSIBILITY OF OTHERS.

MILLWORK WALLS ARE SHOWN IN SHADED / TRANSPARENT MODE ON SHEET 1 OF 5 TO VIEW ENCASED LIFT ASSEMBLY.

POWER NOTE:
BUILDING POWER TO BE SUPPLIED AND ROUTED TO ELECTRICAL CONTROL PANEL BY OTHERS. FURNISH 115 VAC, 3 WIRE, 15 AMP, SINGLE PHASE SOURCE POWER.

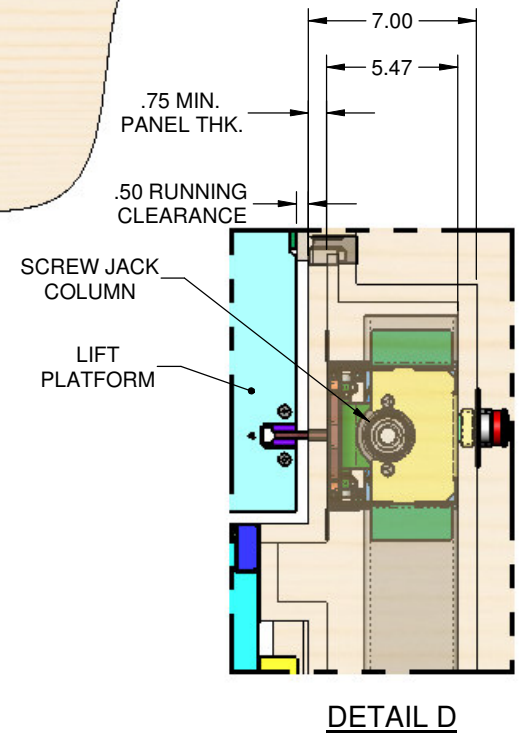
- ADVISORY NOTES:**
1. THIS DRAWING IS SUBJECT TO CHANGE PENDING APPLICABLE STATE AND LOCAL CODES, AND CUSTOMER APPROVAL.
 2. CUSTOMER MUST PROVIDE APPLICABLE STATE AND LOCAL CODES TO LIFT-U PRIOR TO DESIGN.
 3. PRIOR TO INSTALLATION, THE CUSTOMER MAY BE REQUIRED TO OBTAIN A VAIRANCE FROM THE PRESIDING AUTHORITY FOR NON-COMPLIANT FEATURES.
 4. DRAWING MUST BE SIGNED BY CUSTOMER AND RETURNED TO LIFT-U PRIOR TO PRODUCTION RELEASE. CUSTOMER APPROVAL SIGNIFIES THAT ALL DIMENSIONS ARE CORRECT TO THEIR SPECIFICATIONS.
 5. SEE SHEET 5 OF 5 FOR LIFT SPECIFICATIONS.

NOTES:


THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED VMW LIFT / MILLWORK INTERFACE.

THE DIMENSIONS AND DETAILS WILL VARY FOR EACH APPLICATION. THEREFORE, FOR EACH PROJECT APPLICATION REFER TO ITS CORRESPONDING LIFT CONFIGURATION DRAWING FOR GENERAL ARRANGEMENT LAYOUT AND LIFT ENVELOPE DIMENSIONS.

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT ARE FURNISHED AND INSTALLED BY OTHERS.



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TITLE LIFT CONFIGURATION, 7"-14" RISE		
DOCUMENT NO. 910-0091	SHEET NO. 1 OF 5	REVISION A

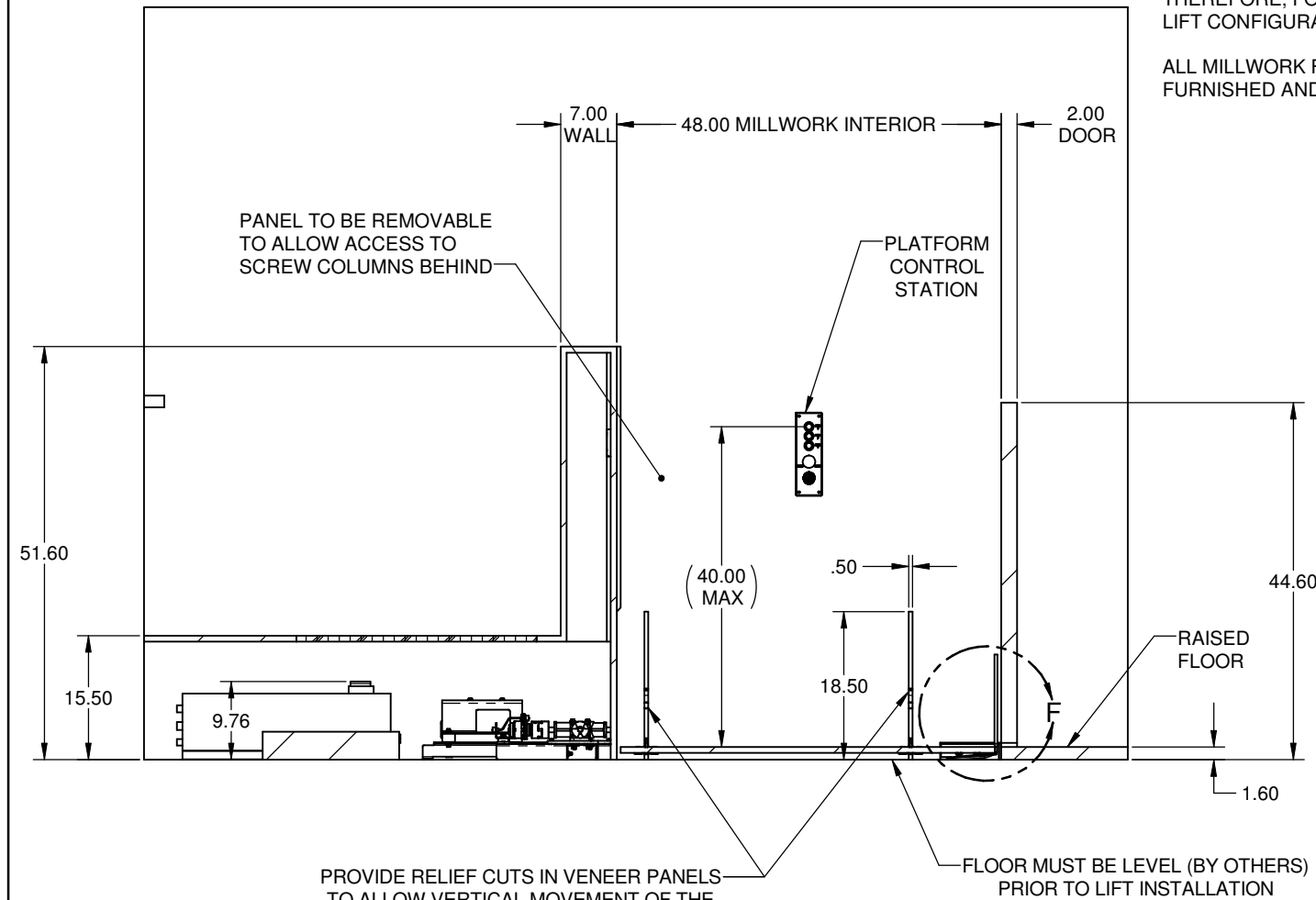
NOTES:

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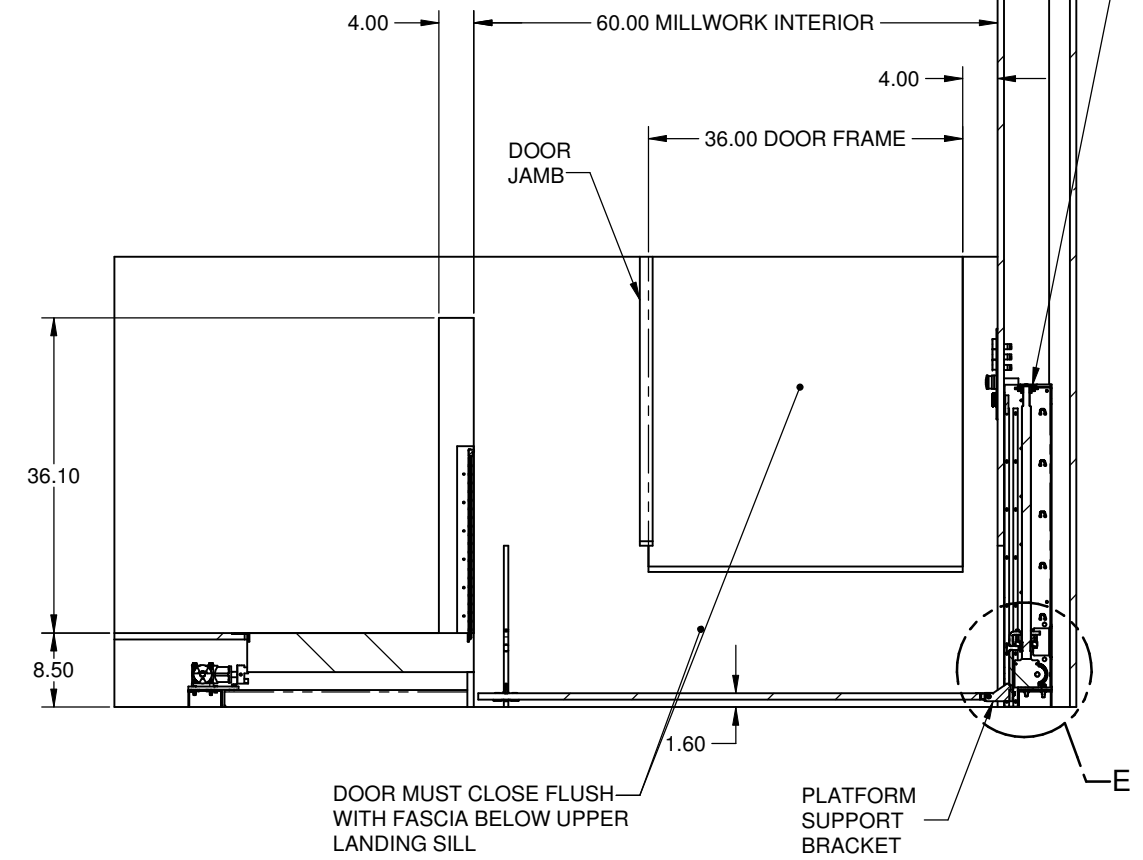
LIFT SCREW JACK COLUMNS TO BE ENCASED IN MILLWORK. MILLWORK IS SUPPLIED AND INSTALLED BY OTHERS. SIDES FACING THE PLATFORM TO BE COMPLETED AFTER THE LIFT IS INSTALLED.



PROVIDE RELIEF CUTS IN VENEER PANELS TO ALLOW VERTICAL MOVEMENT OF THE LIFT PLATFORM SUPPORT BRACKETS.

FLOOR MUST BE LEVEL (BY OTHERS) PRIOR TO LIFT INSTALLATION

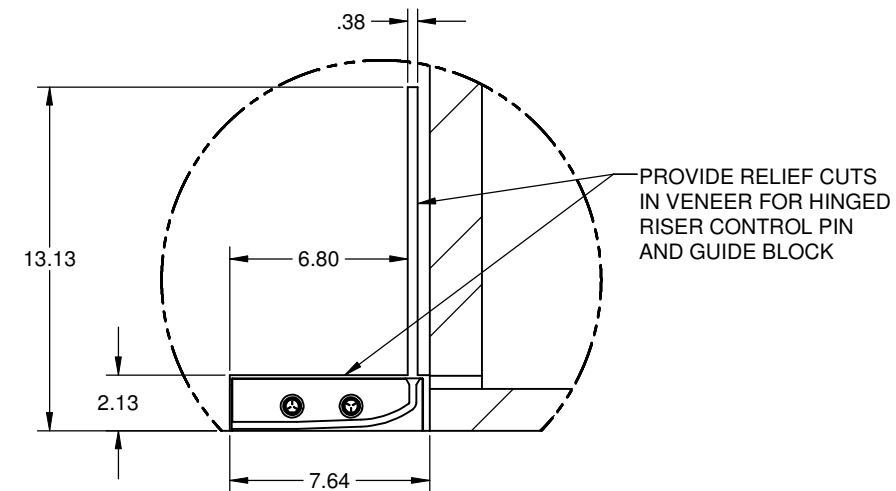
SECTION A-A



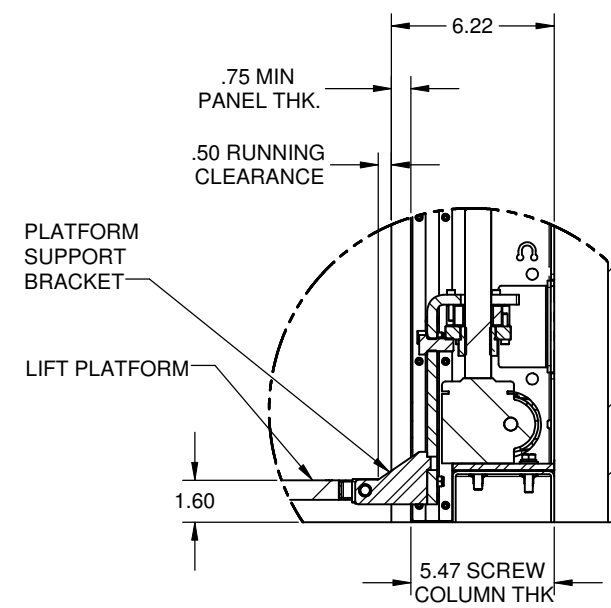
DOOR MUST CLOSE FLUSH WITH FASCIA BELOW UPPER LANDING SILL

PLATFORM SUPPORT BRACKET

SECTION B-B



DETAIL F



DETAIL E

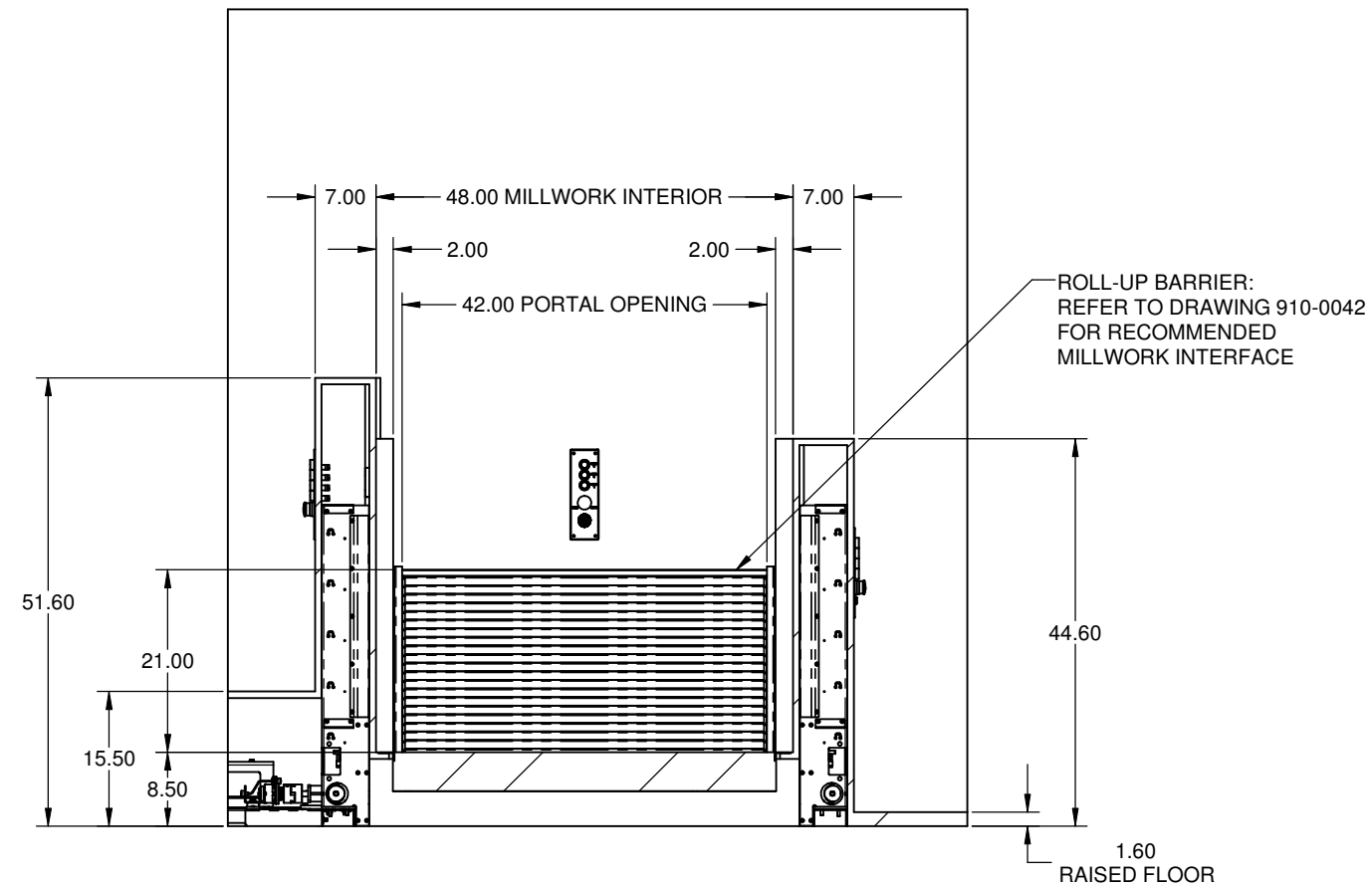
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TITLE	LIFT CONFIGURATION, 7"-14" RISE		
DOCUMENT NO.	910-0091	SHEET NO.	2 OF 5
		REVISION	A



SECTION C-C


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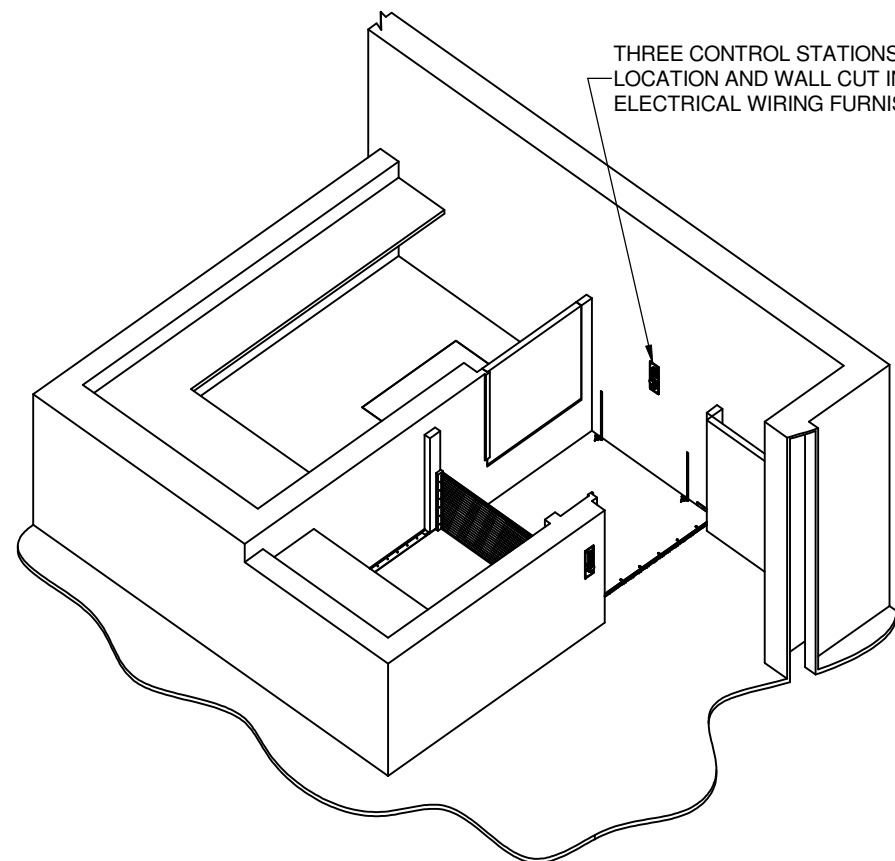
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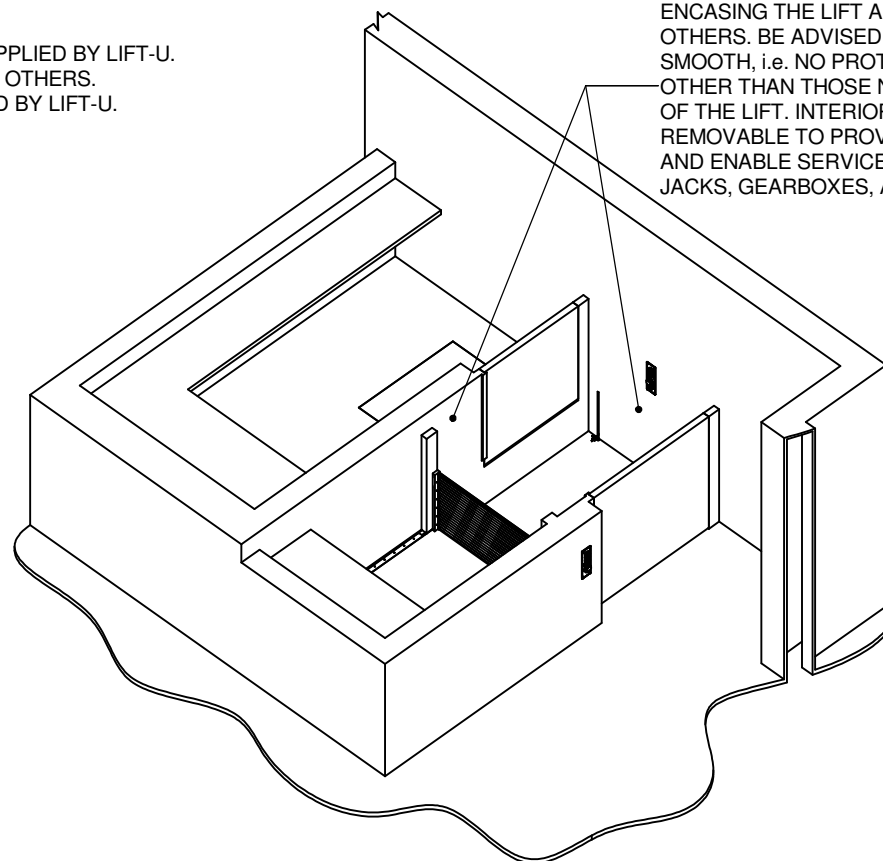
ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT ARE FURNISHED AND INSTALLED BY OTHERS.

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	TITLE LIFT CONFIGURATION, 7"-14" RISE	
DOCUMENT NO. 910-0091	SHEET NO. 3 OF 5	REVISION A



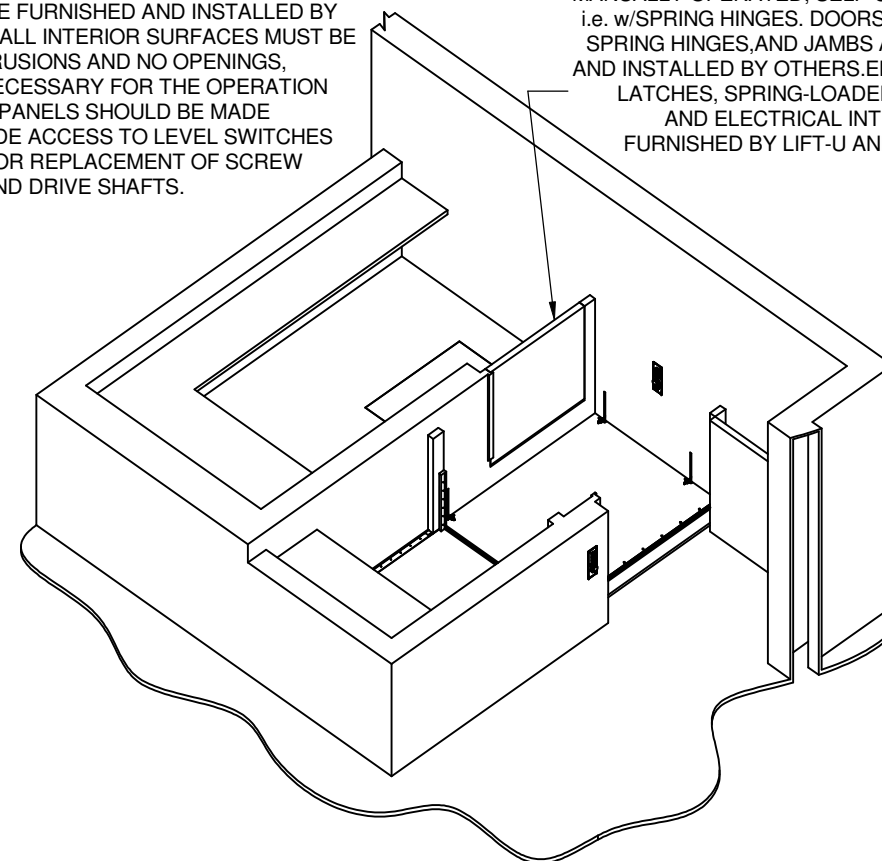
PLATFORM SHOWN AT LOWER LEVEL (1)
READY FOR PASSENGER INGRESS OR EGRESS

THREE CONTROL STATIONS SUPPLIED BY LIFT-U.
LOCATION AND WALL CUT IN BY OTHERS.
ELECTRICAL WIRING FURNISHED BY LIFT-U.



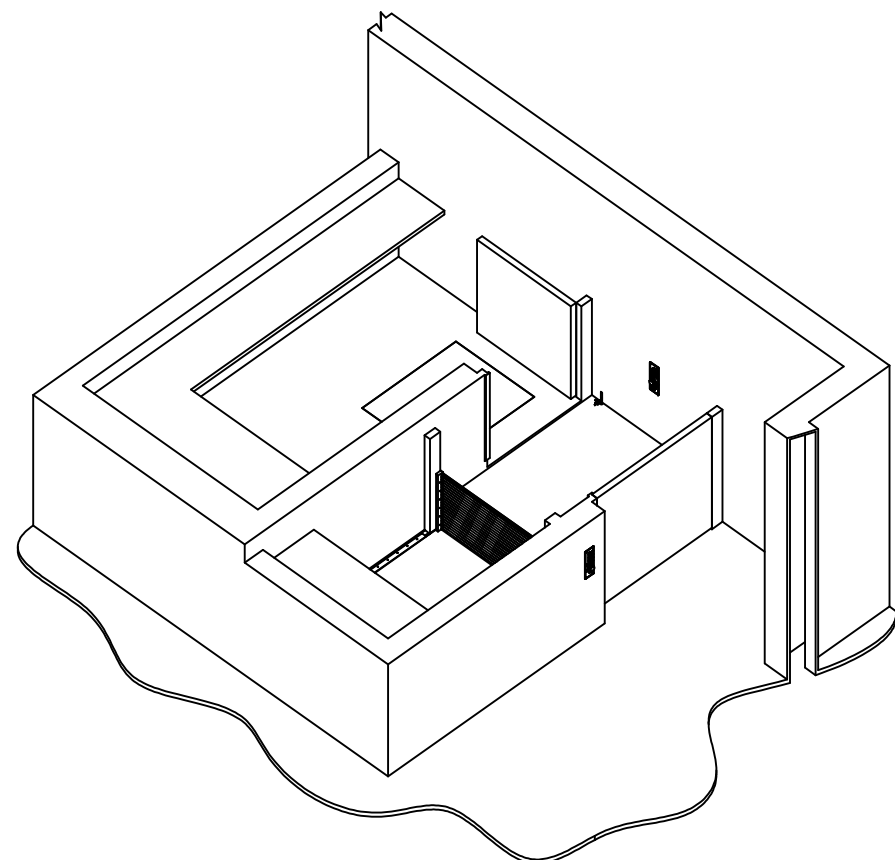
DOORS ARE CLOSED AND LOCKED WHEN
PLATFORM RAISES AND LOWERS

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES
ENCASING THE LIFT ARE FURNISHED AND INSTALLED BY
OTHERS. BE ADVISED - ALL INTERIOR SURFACES MUST BE
SMOOTH, i.e. NO PROTRUSIONS AND NO OPENINGS,
OTHER THAN THOSE NECESSARY FOR THE OPERATION
OF THE LIFT. INTERIOR PANELS SHOULD BE MADE
REMOVABLE TO PROVIDE ACCESS TO LEVEL SWITCHES
AND ENABLE SERVICE OR REPLACEMENT OF SCREW
JACKS, GEARBOXES, AND DRIVE SHAFTS.



PLATFORM SHOWN PARKED AT WITNESS
LEVEL (2) FOR USE BY ABLE-BODIED PERSONS

MANUALLY OPERATED, SELF-CLOSING DOORS
i.e. w/SPRING HINGES. DOORS, SELF-CLOSING
SPRING HINGES, AND JAMBS ARE FURNISHED
AND INSTALLED BY OTHERS. ELECTRIC STRIKE
LATCHES, SPRING-LOADED LATCH BOLTS,
AND ELECTRICAL INTERLOCK WIRING
FURNISHED BY LIFT-U AND INSTALLED BY
OTHERS.



PLATFORM SHOWN AT UPPER LEVEL (3)
READY FOR PASSENGER INGRESS OR EGRESS

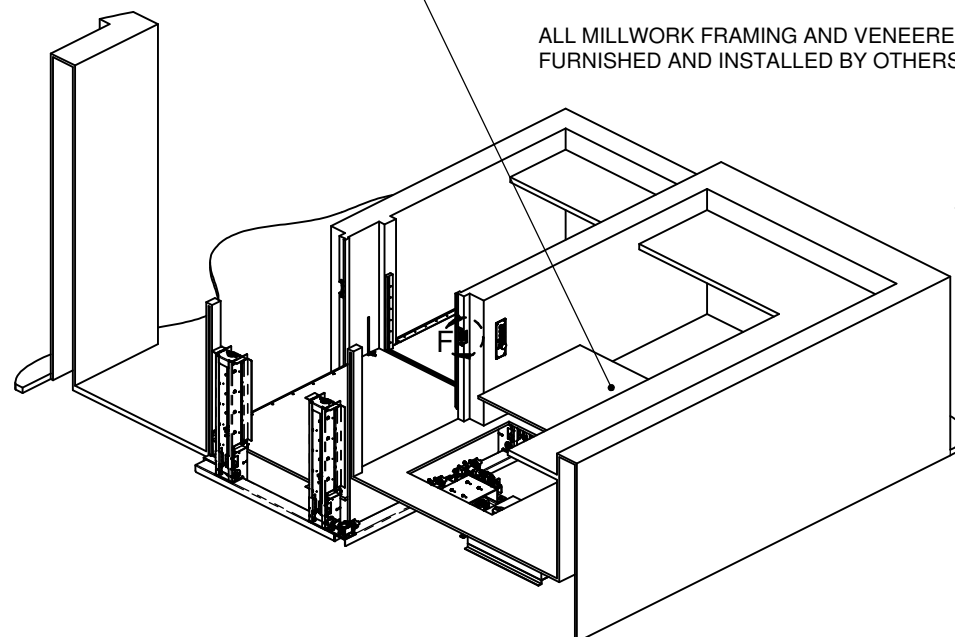
PROVIDE AN ACCESS HATCH TO ENABLE
SERVICE ON MOTOR AND ELECTRONICS
LOCATED BELOW UPPER LANDING.
HATCH SHOULD BE NO LESS THAN 30" x 36".
A REMOVABLE JOIST WITHIN THE FRAMED
HATCH OPENING SHOULD BE POSITIONED
TO REINFORCE THE HATCH COVER.

NOTES:

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LIFT CONFIGURATION DRAWING FOR GENERAL ARRANGEMENT LAYOUT AND LIFT ENVELOPE DIMENSIONS.

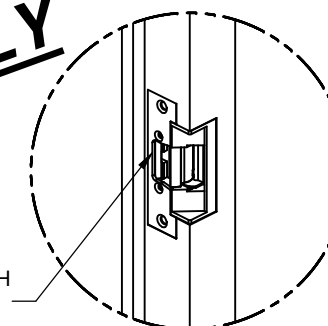
ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT ARE
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REVERSE ISOMETRIC VIEW
BACK WALL AND DOORS NOT SHOWN FOR CLARITY

REFERENCE ONLY

ELECTRIC STRICK LATCH
CUT INTO DOOR JAMB



DETAIL F
TYPICAL 2 PLACES



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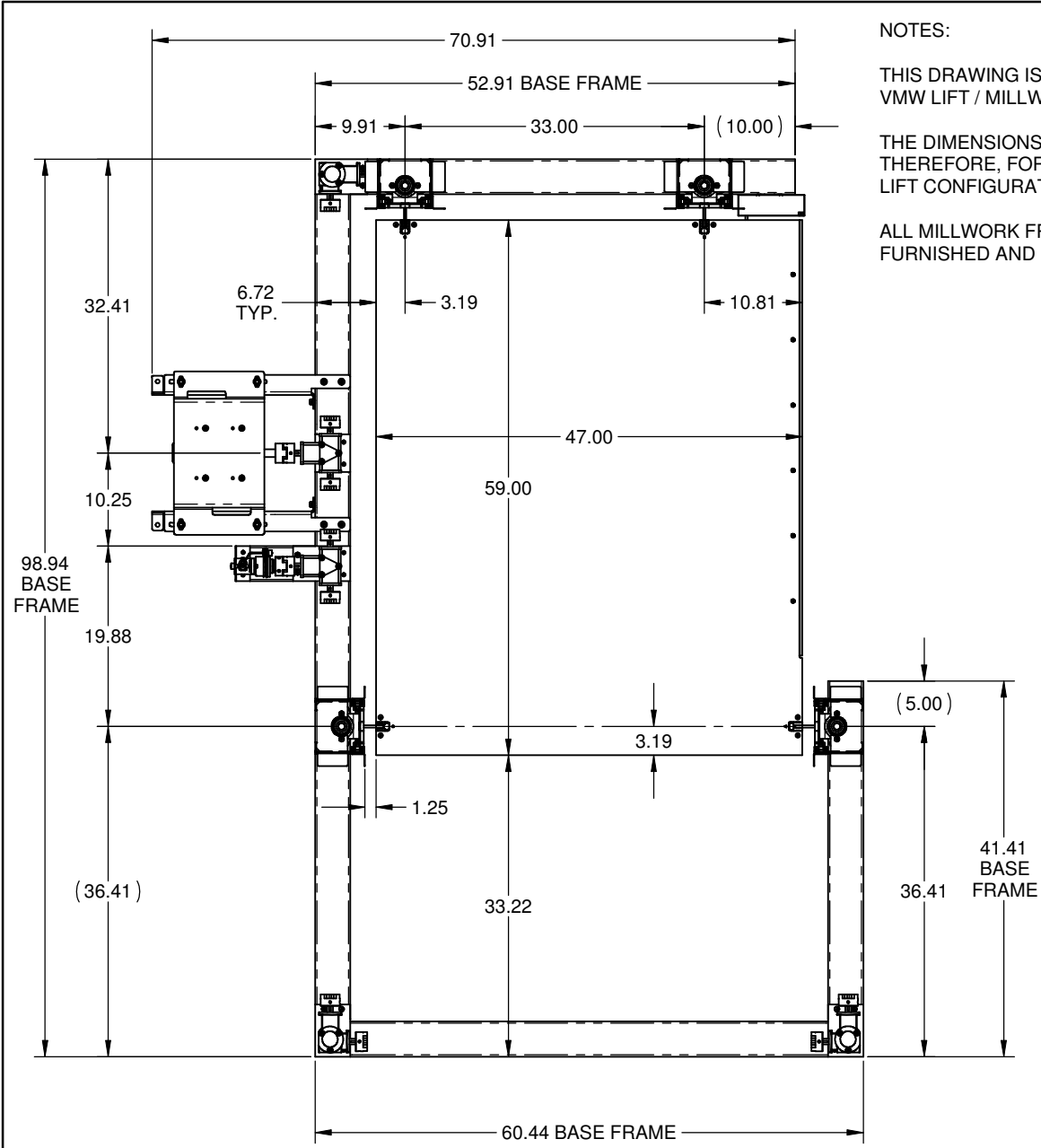
TITLE LIFT CONFIGURATION, 7"-14" RISE

DOCUMENT NO.

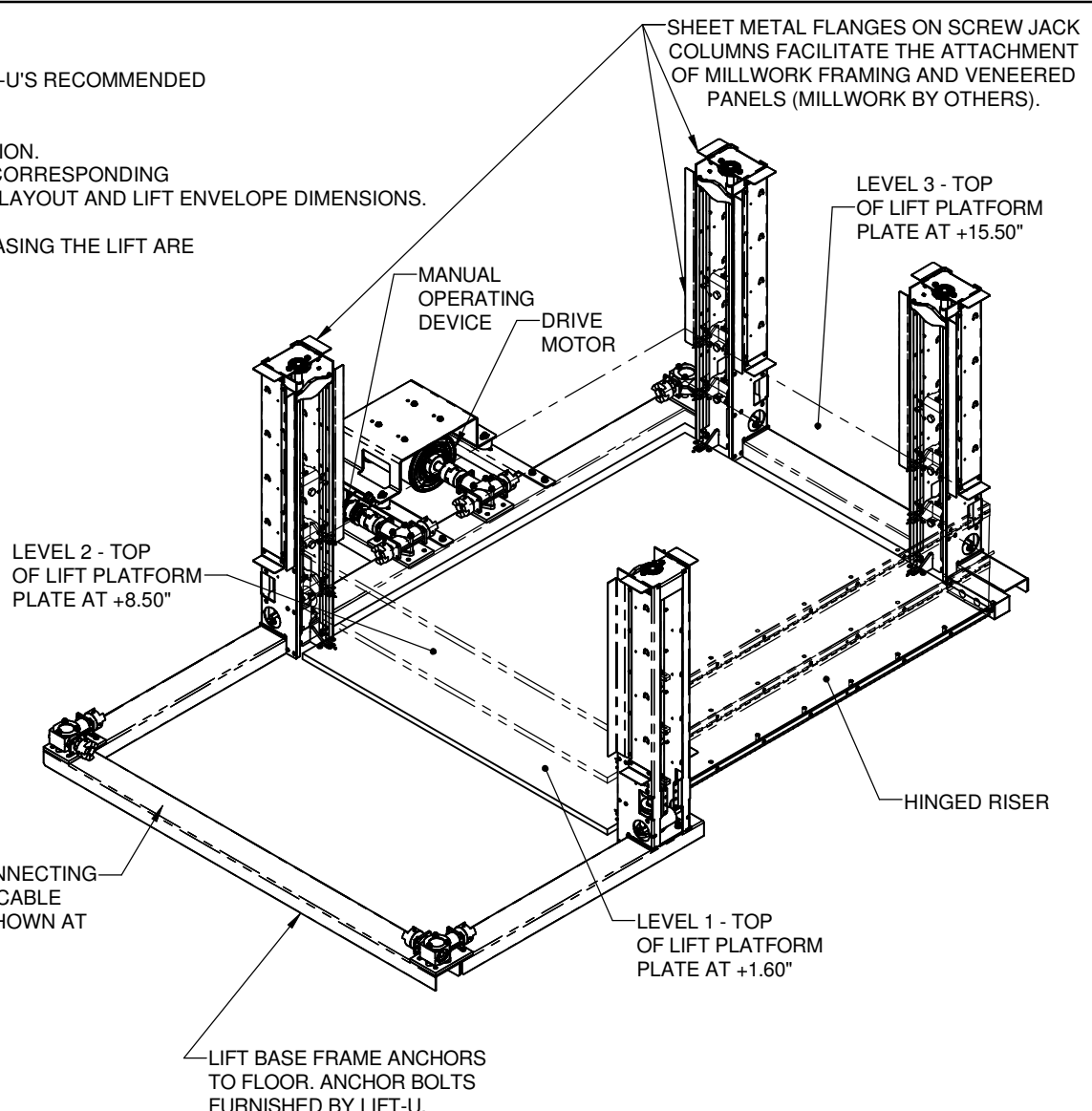
910-0091

SHEET NO.
4 OF 5

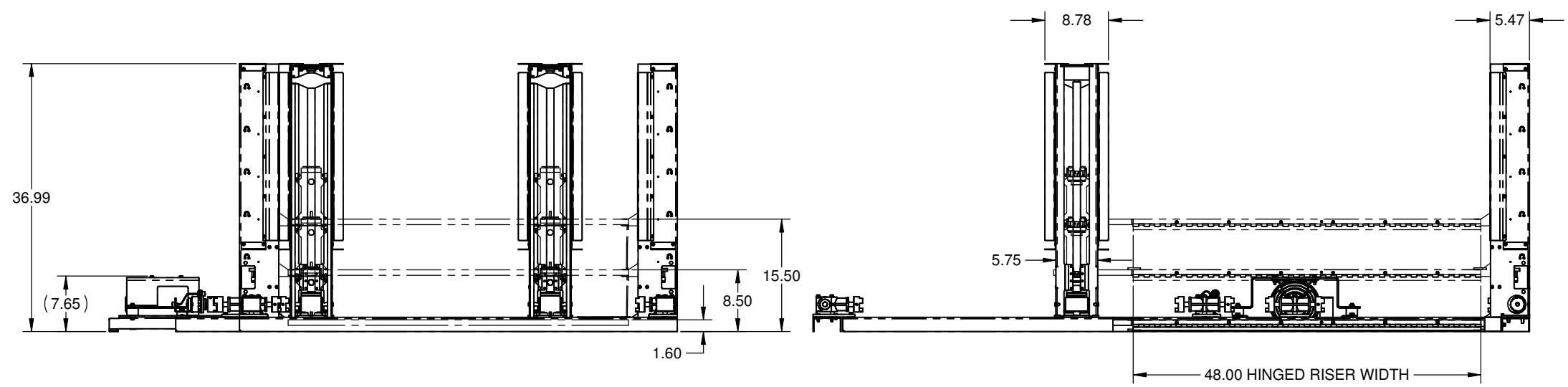
REVISION
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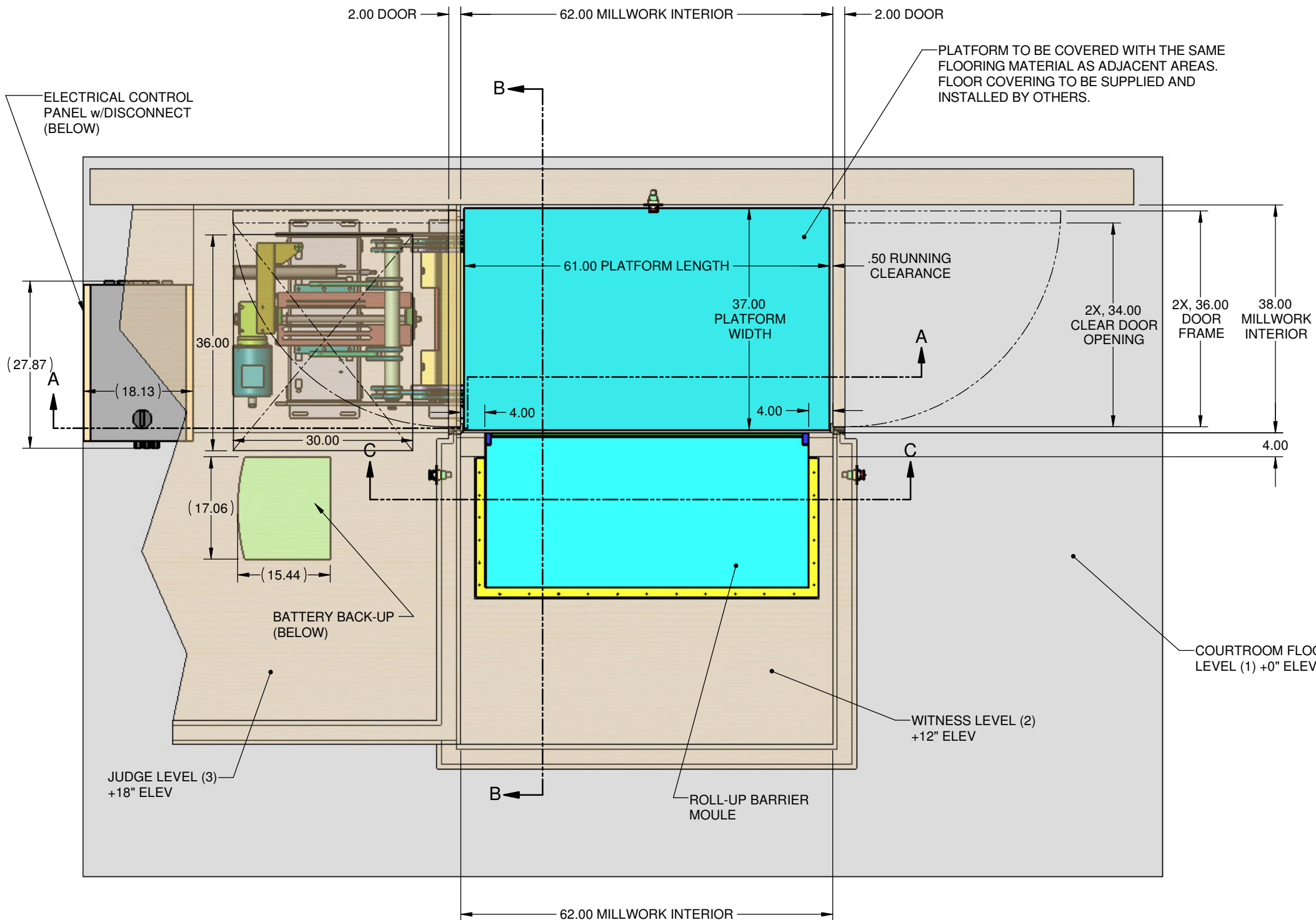
ISOMETRIC VIEW



LIFT ENVELOPE DIMENSIONS

REFERENCE ONLY

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TITLE LIFT CONFIGURATION, 7"-14" RISE		
DOCUMENT NO. 910-0091	SHEET NO. 5 OF 5	REVISION A



THIS DRAWING ILLUSTRATES A LIFT PLATFORM AND OPERATING MECHANISM WITHIN THE PARAMETERS OF MILLWORK WALLS. THE LIFT PLATFORM REQUIRES 3/8" MINIMUM TO 3/4" MAXIMUM RUNNING CLEARANCE WITH ADJACENT MILLWORK FINISHED SURFACES. THE MILLWORK SHOWN IS FOR ILLUSTRATIVE REFERENCE ONLY. DIMENSIONAL EXTENTS OF THE MILLWORK IS THE RESPONSIBILITY OF OTHERS.

MILLWORK WALLS ARE SHOWN IN SHADED / TRANSPARENT MODE ON SHEET 1 OF 5 TO VIEW ENCASED LIFT ASSEMBLY.

POWER NOTE:
BUILDING POWER TO BE SUPPLIED AND ROUTED TO ELECTRICAL CONTROL PANEL BY OTHERS. FURNISH 115 VAC, 3 WIRE, 15 AMP, SINGLE PHASE SOURCE POWER.

- ADVISORY NOTES:**
1. THIS DRAWING IS SUBJECT TO CHANGE PENDING APPLICABLE STATE AND LOCAL CODES, AND CUSTOMER APPROVAL.
 2. CUSTOMER MUST PROVIDE APPLICABLE STATE AND LOCAL CODES TO LIFT-U PRIOR TO DESIGN.
 3. PRIOR TO INSTALLATION, THE CUSTOMER MAY BE REQUIRED TO OBTAIN A VARIANCE FROM THE PRESIDING AUTHORITY FOR NON-COMPLIANT FEATURES.
 4. DRAWING MUST BE SIGNED BY CUSTOMER AND RETURNED TO LIFT-U PRIOR TO PRODUCTION RELEASE. CUSTOMER APPROVAL SIGNIFIES THAT ALL DIMENSIONS ARE CORRECT TO THEIR SPECIFICATIONS.
 5. SEE SHEET 5 OF 5 FOR LIFT SPECIFICATIONS.

PLAN VIEW
PLATFORM SHOWN AT JUDGE LEVEL (3)


NOTES:

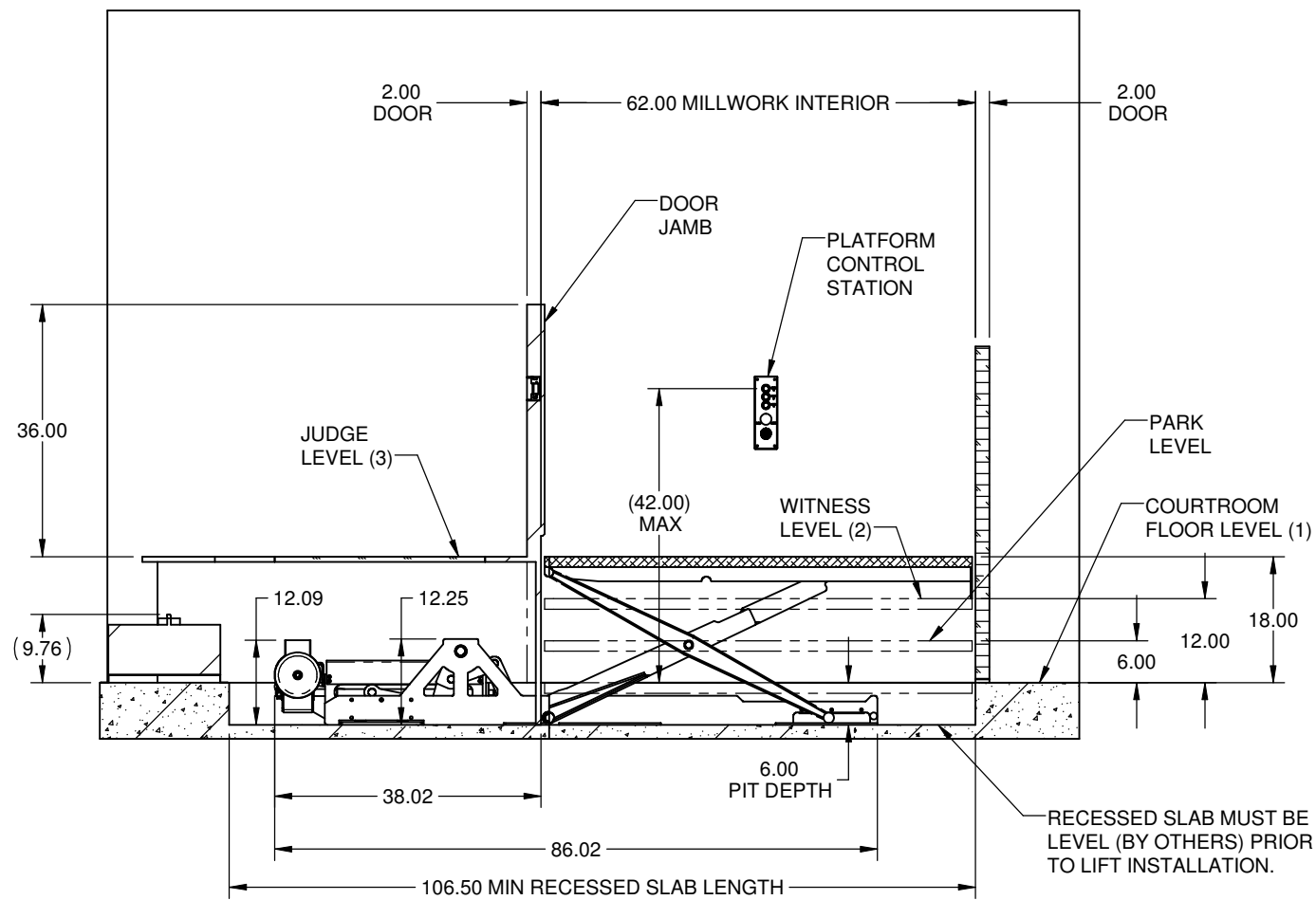
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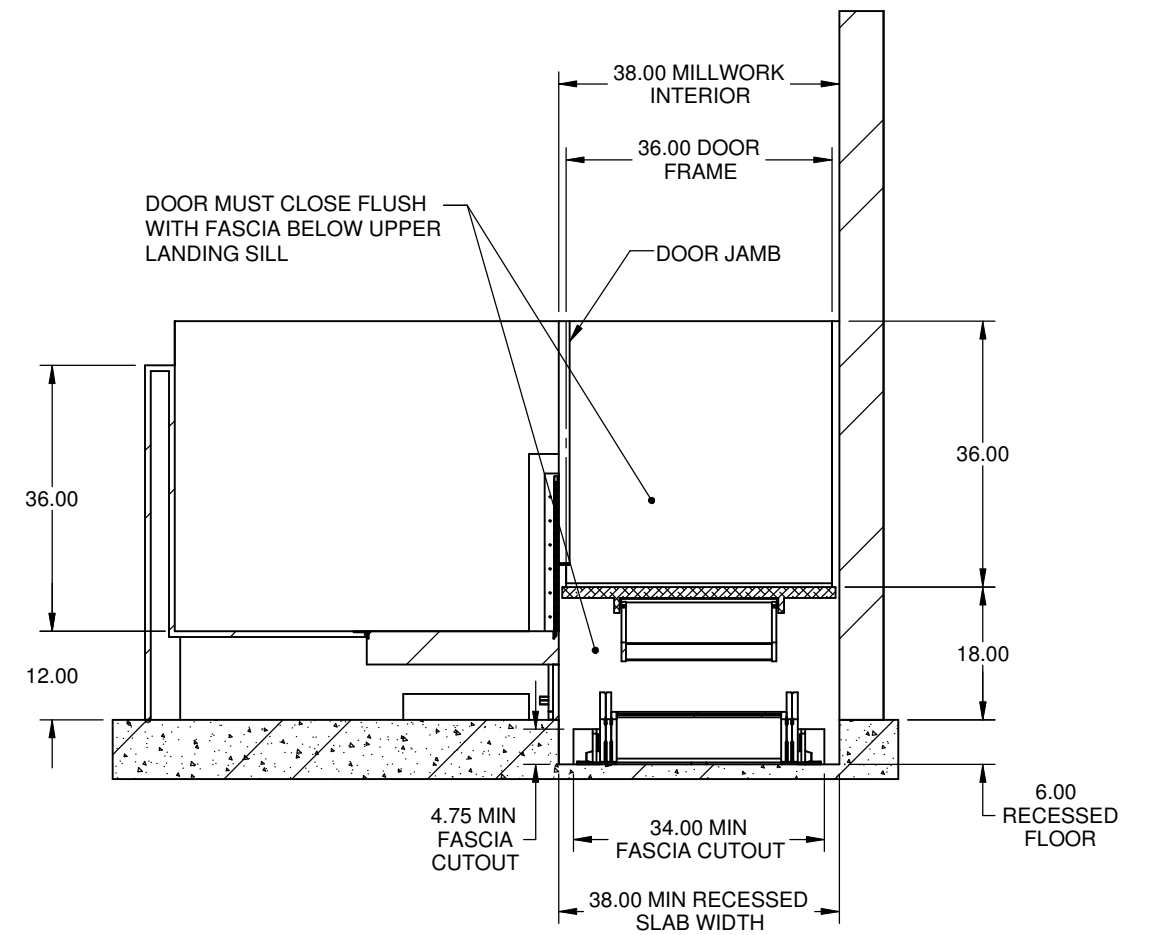
ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASEING THE LIFT ARE FURNISHED AND INSTALLED BY OTHERS.

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TITLE LIFT CONFIGURATION, 6" - 18" RISE		
DOCUMENT NO. 910-0092	SHEET NO. 1 OF 5	REVISION A



SECTION A-A



SECTION B-B


NOTES:

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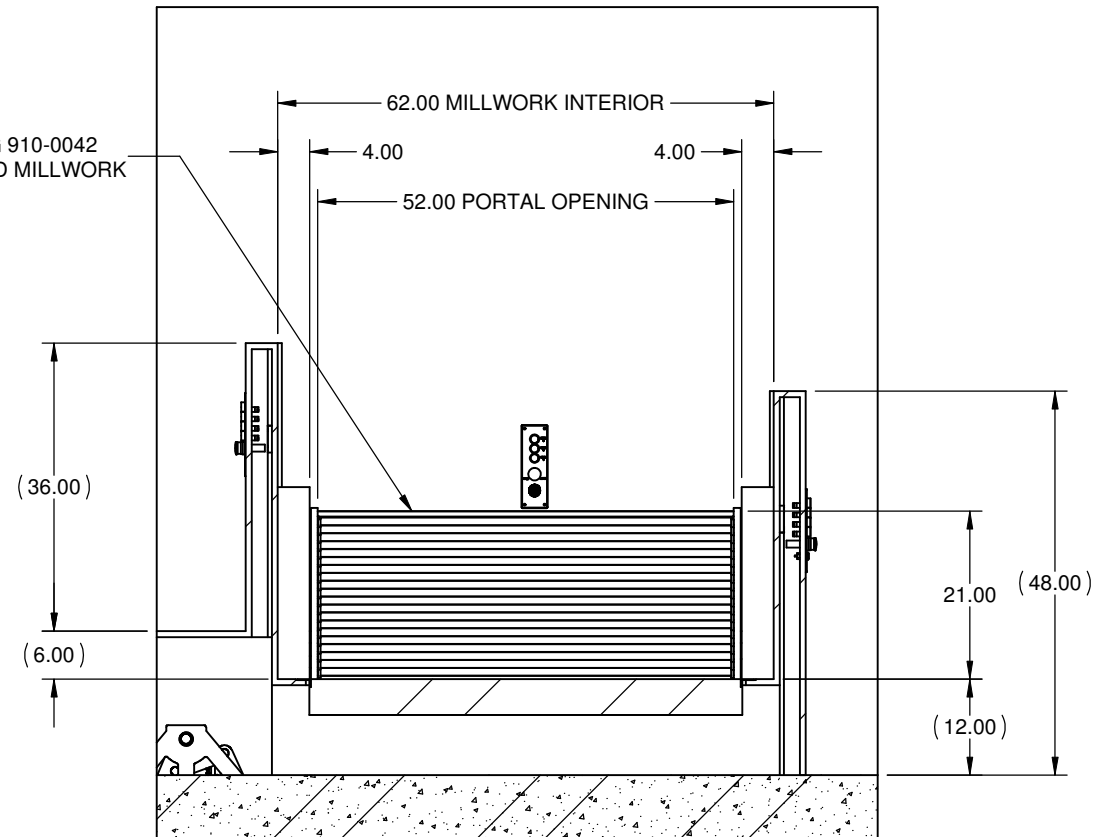
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TITLE LIFT CONFIGURATION, 6" - 18" RISE		
DOCUMENT NO. 910-0092	SHEET NO. 2 OF 5	REVISION A

ROLL-UP BARRIER:
REFER TO DRAWING 910-0042
FOR RECOMMENDED MILLWORK
INTERFACE.



SECTION C-C


REFERENCE ONLY

NOTES:

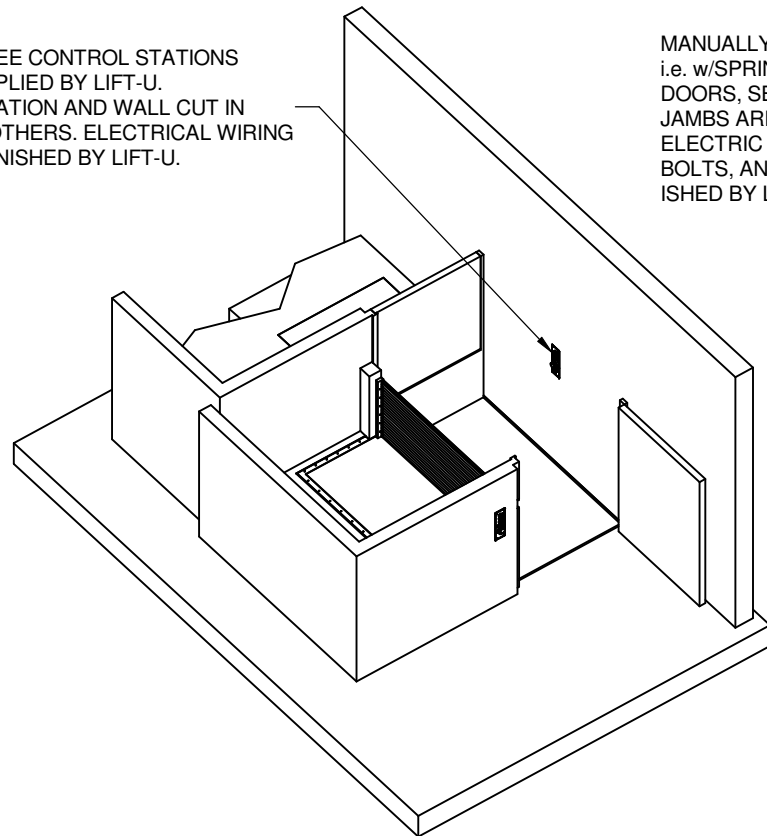
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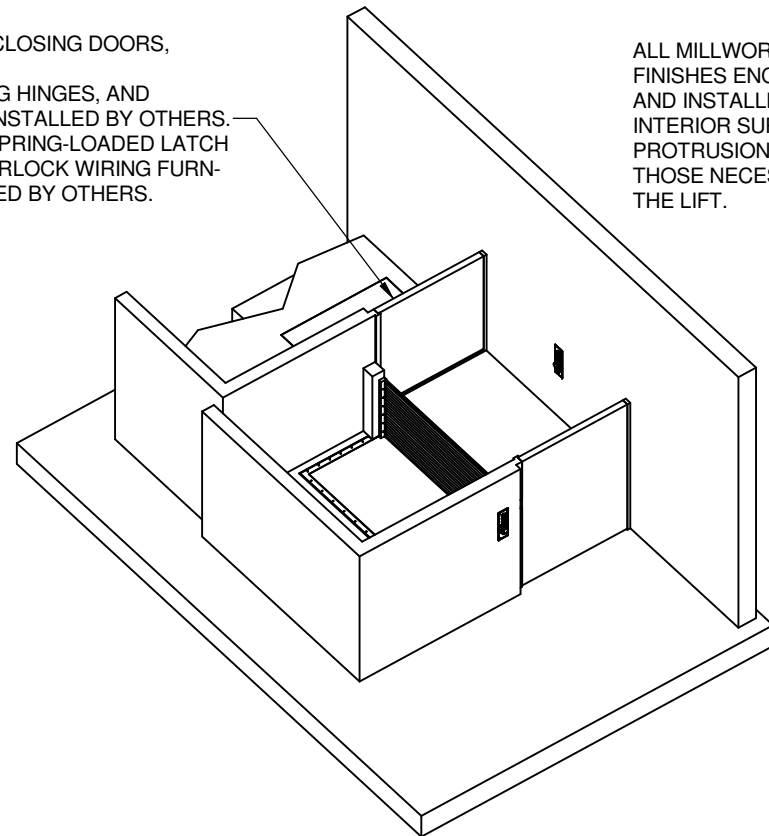
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TITLE LIFT CONFIGURATION, 6" - 18" RISE		
DOCUMENT NO. 910-0092	SHEET NO. 3 OF 5	REVISION A

THREE CONTROL STATIONS SUPPLIED BY LIFT-U. LOCATION AND WALL CUT IN BY OTHERS. ELECTRICAL WIRING FURNISHED BY LIFT-U.



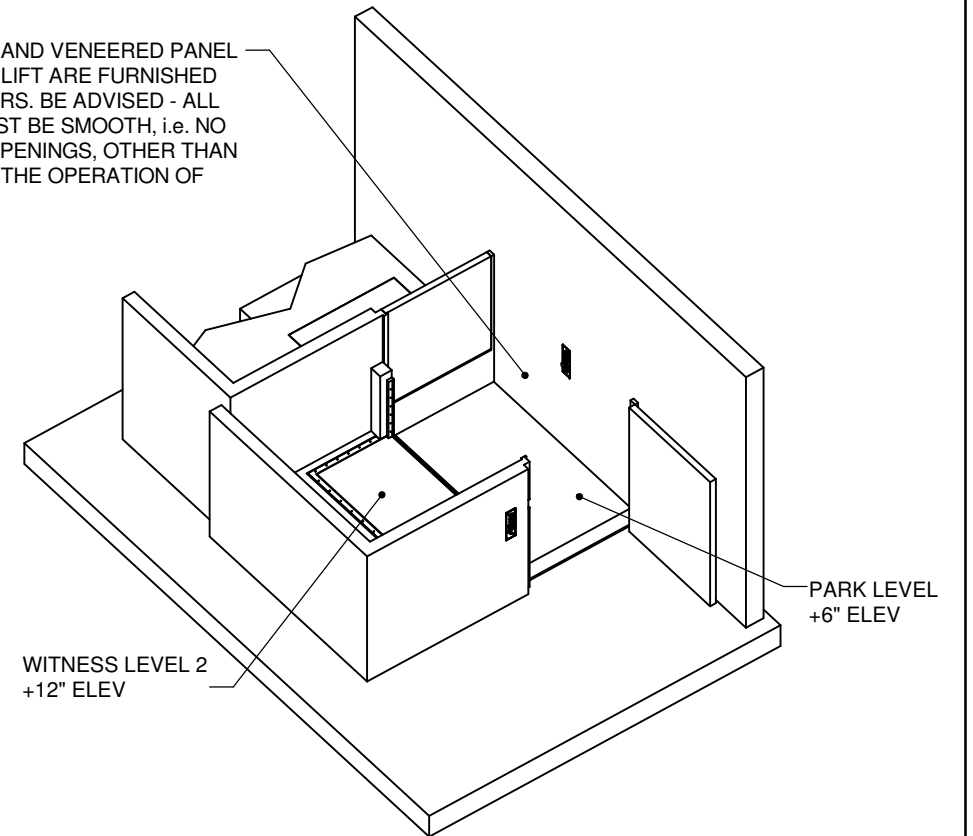
PLATFORM SHOWN AT LOWER LEVEL (1) READY FOR PASSENGER INGRESS OR EGRESS

MANUALLY OPERATED, SELF-CLOSING DOORS, i.e. w/SPRING HINGES. DOORS, SELF-CLOSING SPRING HINGES, AND JAMBS ARE FURNISHED AND INSTALLED BY OTHERS. ELECTRIC STRIKE LATCHES, SPRING-LOADED LATCH BOLTS, AND ELECTRICAL INTERLOCK WIRING FURNISHED BY LIFT-U AND INSTALLED BY OTHERS.



DOORS ARE CLOSED AND LOCKED WHEN PLATFORM RAISES AND LOWERS

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT ARE FURNISHED AND INSTALLED BY OTHERS. BE ADVISED - ALL INTERIOR SURFACES MUST BE SMOOTH, i.e. NO PROTRUSIONS AND NO OPENINGS, OTHER THAN THOSE NECESSARY FOR THE OPERATION OF THE LIFT.



PLATFORM SHOWN AT PARK LEVEL FOR USE BY ABLE-BODIED PERSONS ROLL-UP BARRIER IS STOWED

WITNESS LEVEL 2 +12" ELEV

PARK LEVEL +6" ELEV

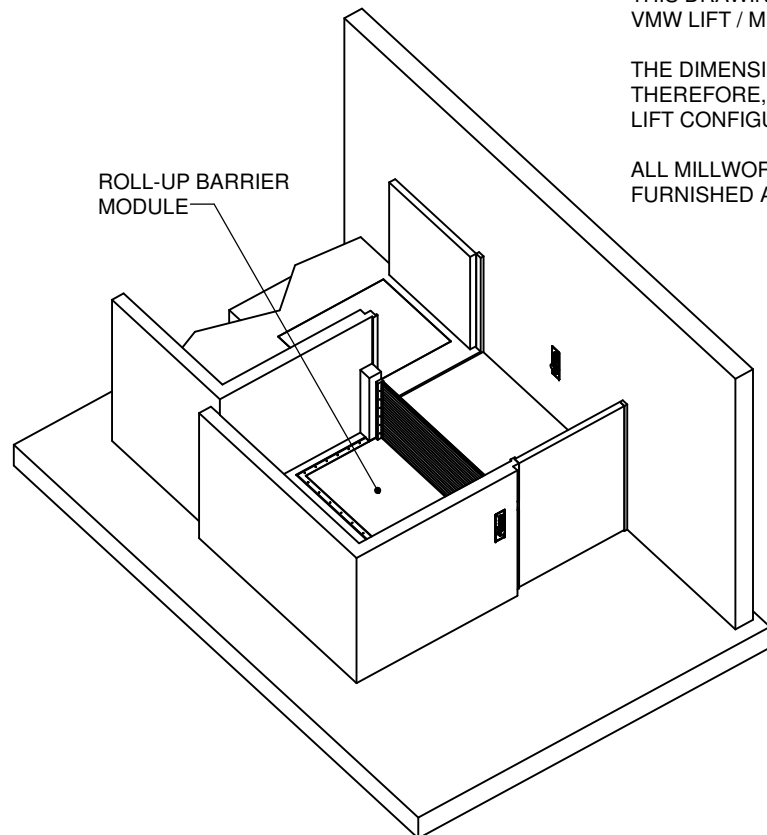
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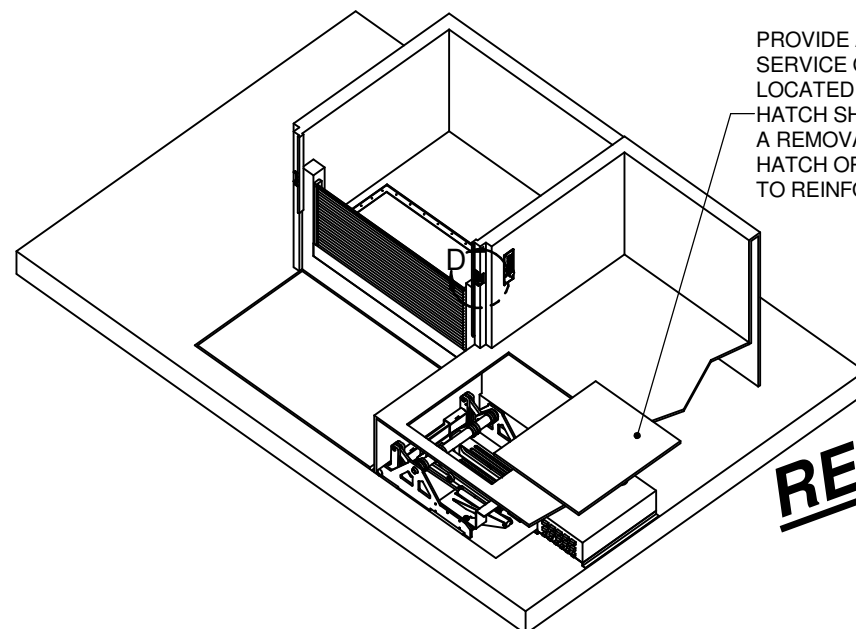
ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT ARE FURNISHED AND INSTALLED BY OTHERS.

ROLL-UP BARRIER MODULE

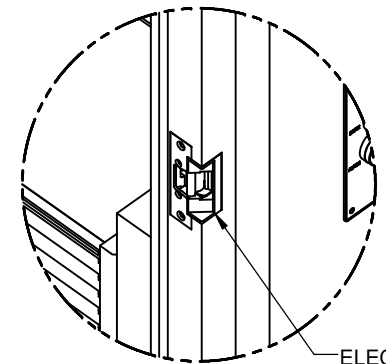


PLATFORM SHOWN AT JUDGE LEVEL (3) READY FOR PASSENGER INGRESS OR EGRESS

PROVIDE AN ACCESS HATCH TO ENABLE SERVICE ON MOTOR AND ELECTRONICS LOCATED BELOW UPPER LANDING. HATCH SHOULD BE NO LESS THAN 30" x 36". A REMOVABLE JOIST WITHIN THE FRAMED HATCH OPENING SHOULD BE POSITIONED TO REINFORCE THE HATCH COVER.



REVERSE ISOMETRIC VIEW BACK WALL AND DOORS NOT SHOWN FOR CLARITY



ELECTRIC STRIKE LATCH CUT INTO DOOR JAMB

DETAIL D 2 PLACES

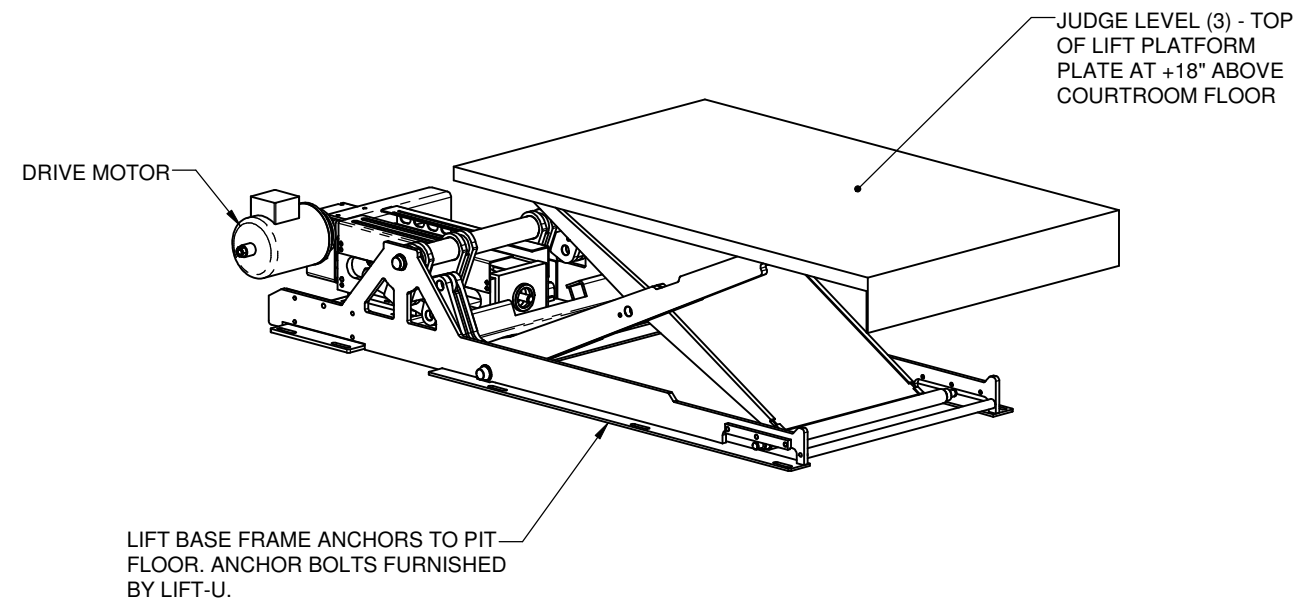
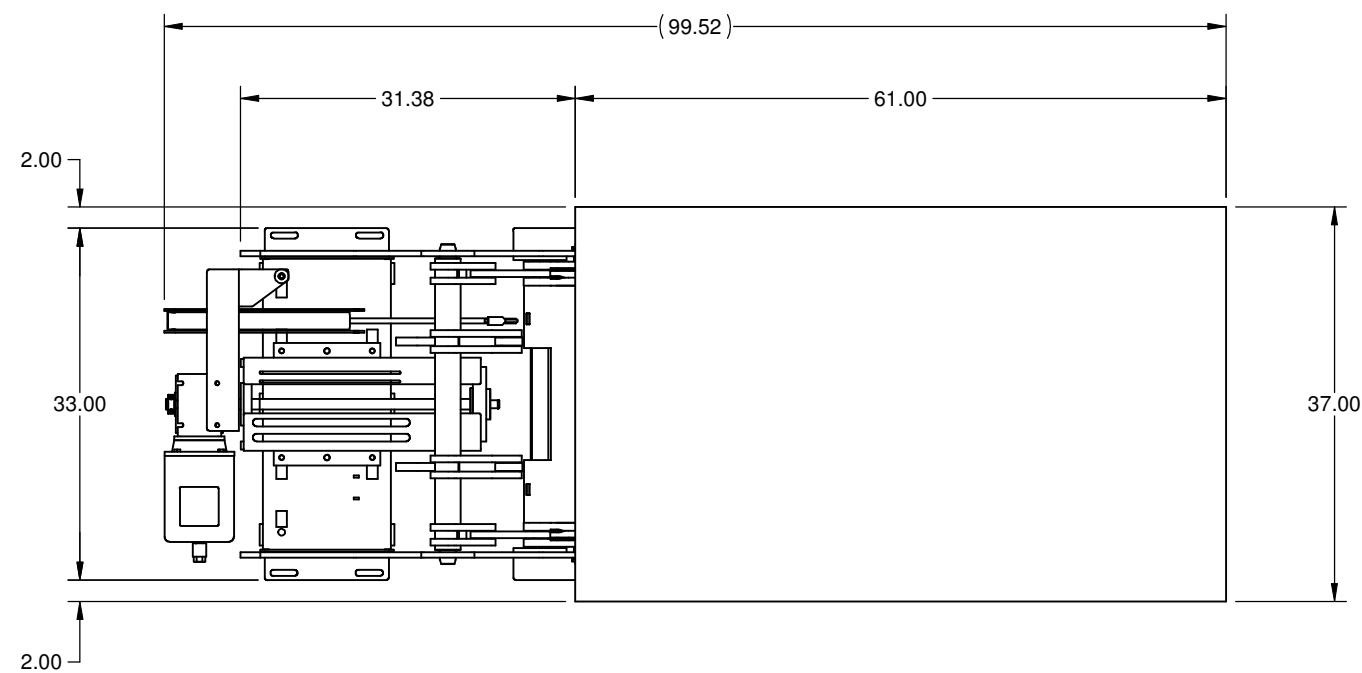
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		REVISION	A



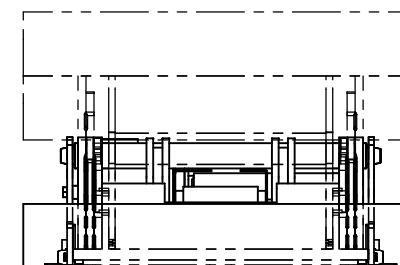
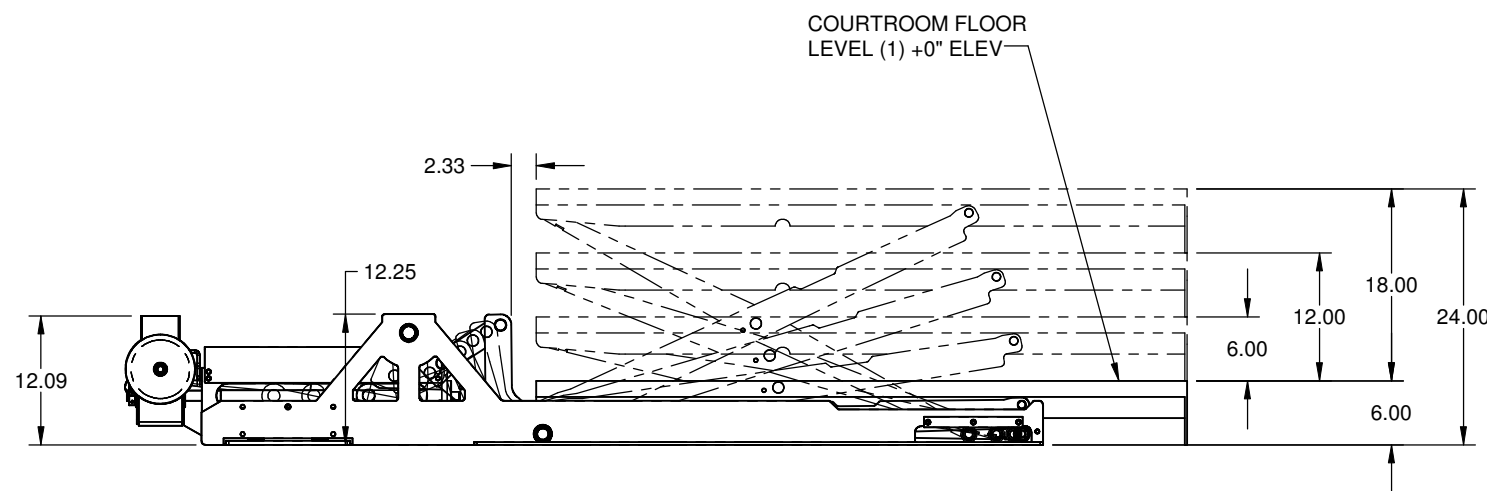
PERSPECTIVE VIEW

NOTES:

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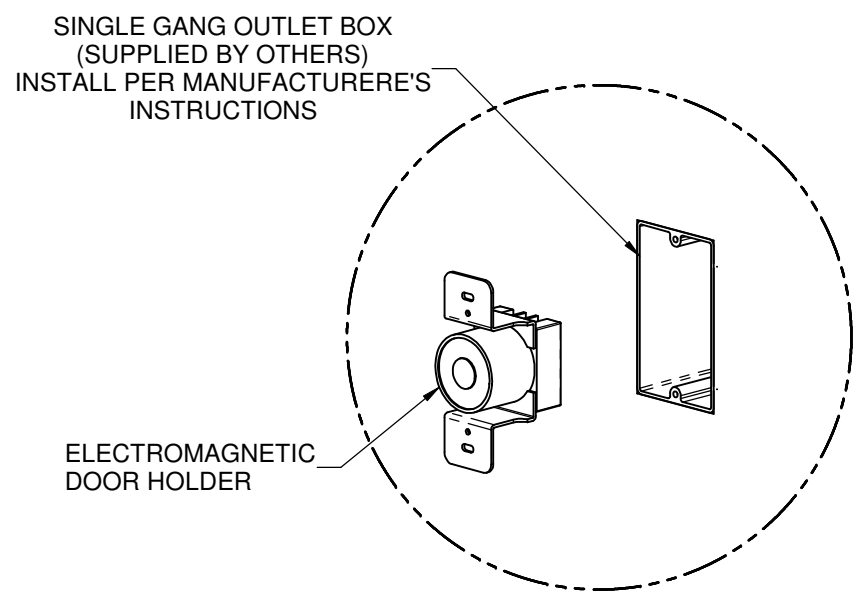
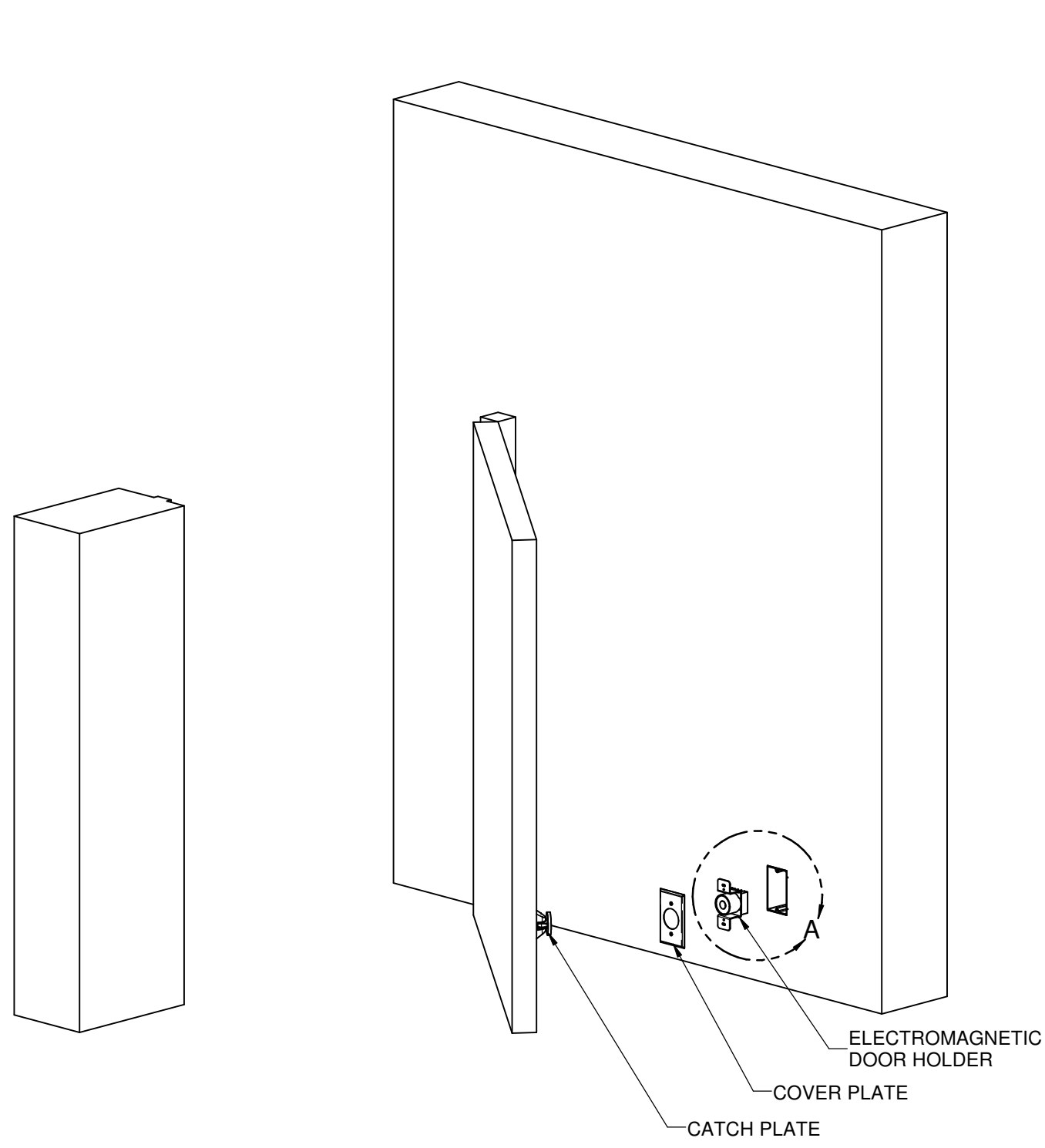


LIFT ENVELOPE DIMENSIONS

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<p>TITLE LIFT CONFIGURATION, 6" - 18" RISE</p>		
DOCUMENT NO.	910-0092	SHEET NO. 5 OF 5 REVISION A

REVISIONS						
REV	ECO	DESCRIPTION	CREATED	DATE	APPROVED	DATE
A		RELEASED	WAC	10-27-11		



DETAIL A

NOTES:

THIS DRAWING IS GENERIC AND PROVIDED TO ILLUSTRATE LIFT-U'S RECOMMENDED ELECTROMAGNETIC DOOR HOLDER / MILLWORK INTERFACE. SEE SHEET 2 AND MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.


THE DIMENSIONS AND DETAILS WILL VARY FOR EACH APPLICATION, REFER TO ITS CORRESPONDING LIFT CONFIGURATION.

CLEARANCE AND/OR OPENINGS INSIDE THE MILLWORK WALLS MUST BE PROVIDED FOR ROUTING OF ELECTROMAGNETIC DOOR HOLDER WIRING.

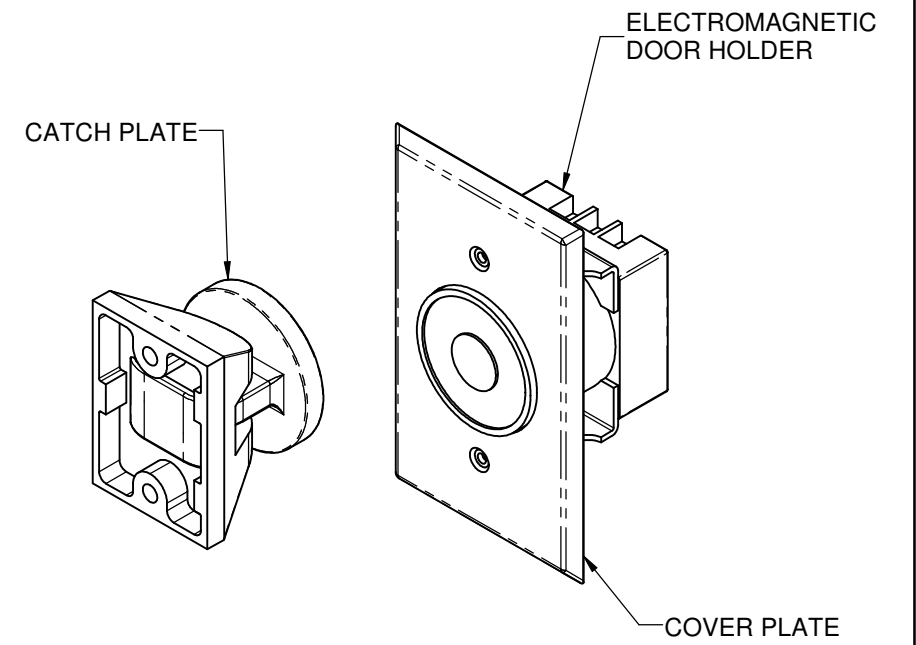
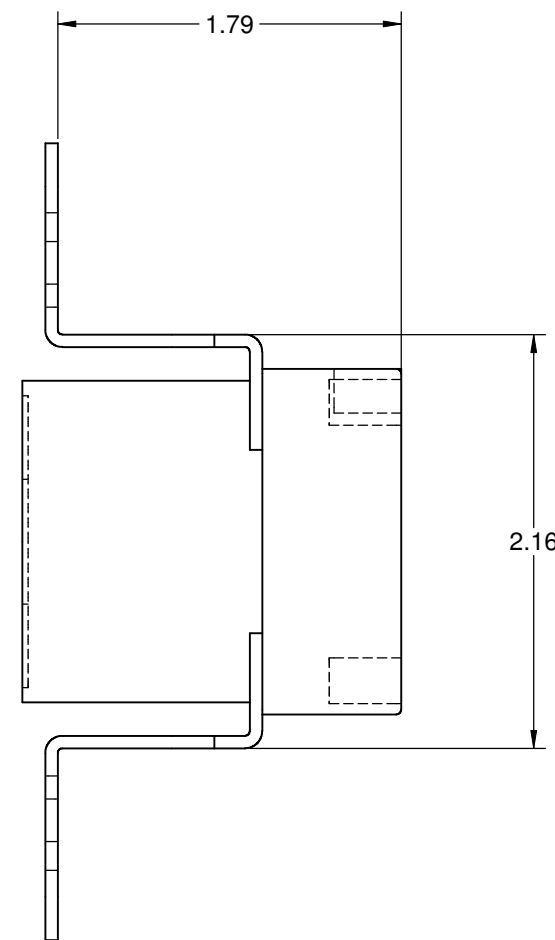
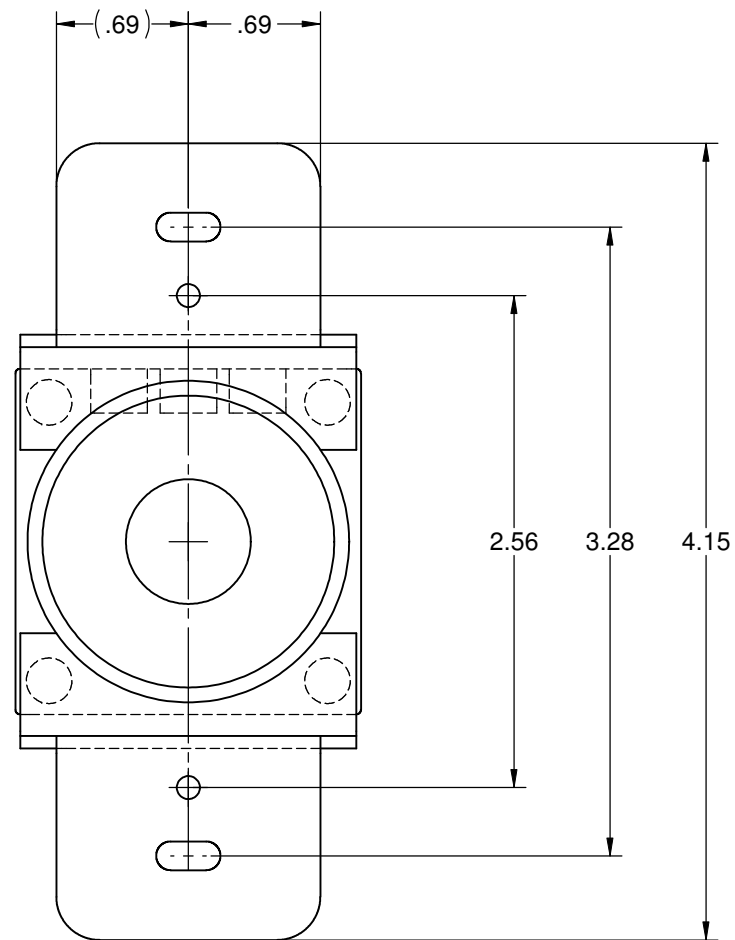
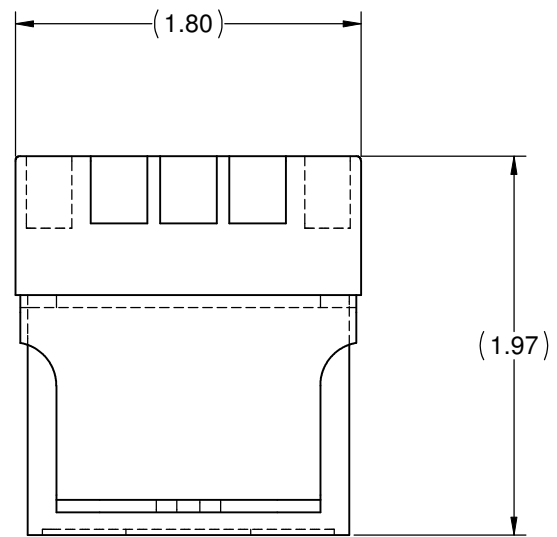
REFER TO DRAWING 910-0026 FOR ADDITIONAL RECOMMENDED MILLWORK WALL INTERFACE DESIGN PRINCIPLES.

ALL MILLWORK FRAMING AND VENEERED PANEL FINISHES ENCASING THE LIFT, AS WELL AS DOORS / GATES AND JAMS ARE FURNISHED AND INSTALLED BY OTHERS.


LOCATION OF DOOR HOLDER IS FOR ILLUSTRATION PURPOSES ONLY.

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TITLE		
DOOR HOLDER / MILLWORK INTERFACE		
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		1 OF 2
		REVISION
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PERSPECTIVE VIEW OF ELECTRIOMAGNETIC DOOR HOLDER

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