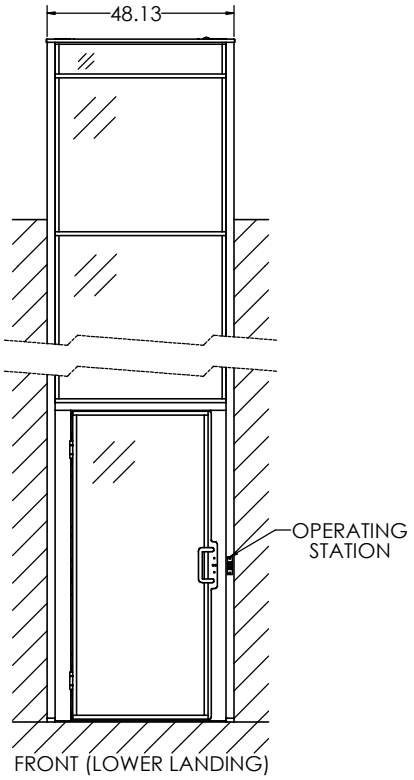
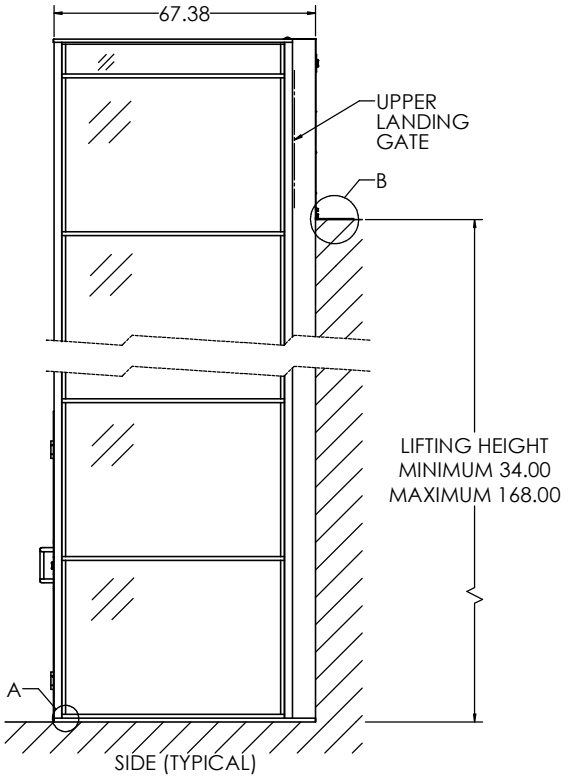
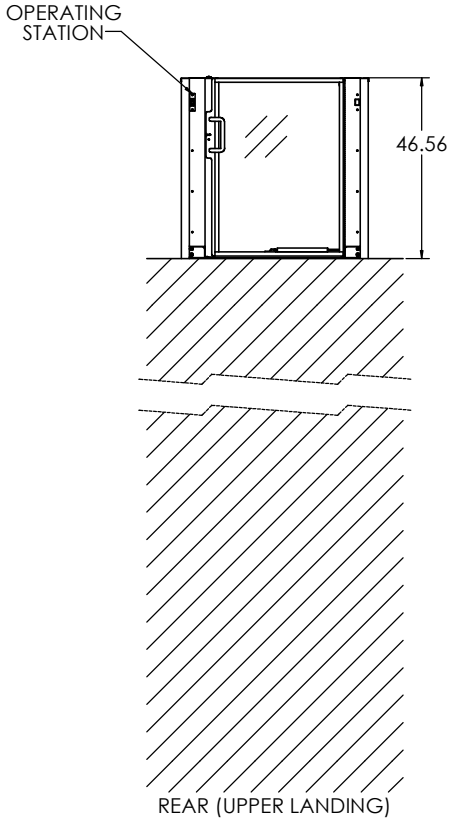
GENERIC DRAWING; CONTACT ASCENSION FOR PROJECT-SPECIFIC DRAWINGS

SEE OTHER CLARITY LIFT MODELS (16C, 16D, 16S, ETC.) FOR OTHER ENTRY/EXIT AND ENCLOSED/SHAFTWAY OPTIONS

SEE OPTIONS BROCHURE AND/OR SHEET 3 FOR VARIOUS CONFIGURATION OPTIONS







ASCENSION CLARITY 16E VERTICAL PLATFORM WHEELCHAIR LIFT FOR PERMANENT LIFT APPLICATIONS

INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1994

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

DECIMALS .XX ± .25 .XXX ± .13

ANGLES ± .5°

DO NOT SCALE DRAWING

FINISH

DEBURR AND BREAK SHARP EDGES

MATERIAL

NEXT ASSY

USED ON

APPLICATION

DRAWN S.APPLEBY 8/5/2024

CHECK

APPROVED By Philip Brobeck at 1:59 pm, Aug 05, 2024

CONTRACT

CUSTOMER

ascension®

P.O. BOX 40020 TUCSON, ARIZONA 85717-0020

TITLE

CLARITY 16E

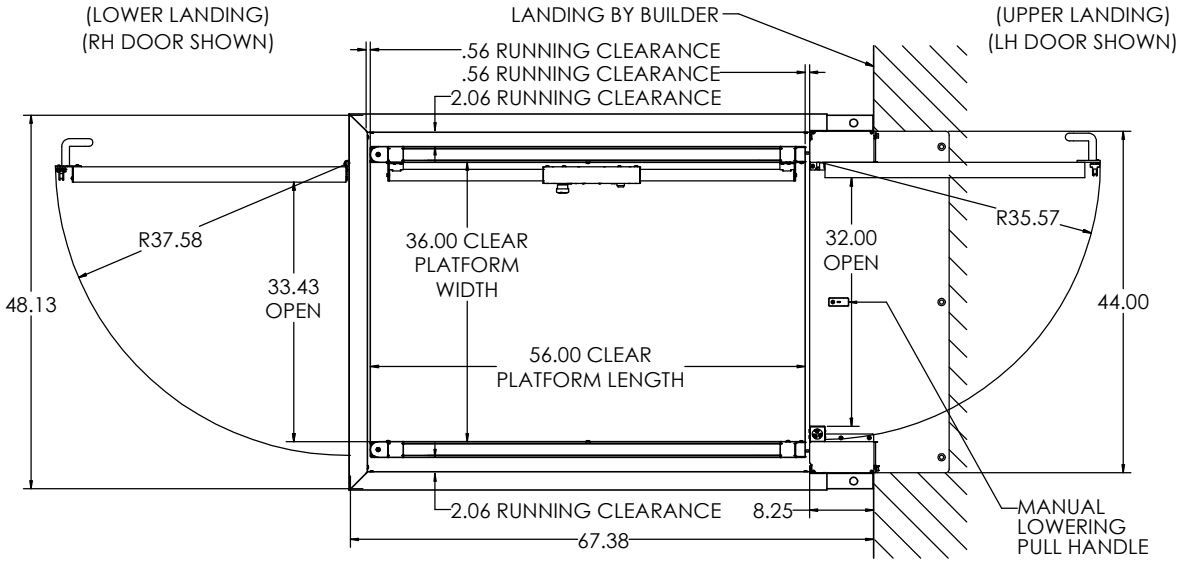
ENCLOSED, STRAIGHT-THROUGH

SIZE D | FSCM NO. 08992 | DWG. NO. CLARITY 16E | REV E

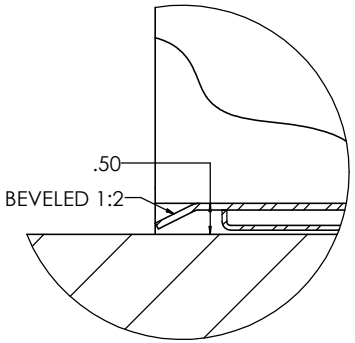
SCALE 1/16 | RELEASE DATE | SHEET 1 OF 3

D SIZE SHT 1 02/03

FILE \Solidworks01\Ascension\CLARITY 16E.SLDDRW



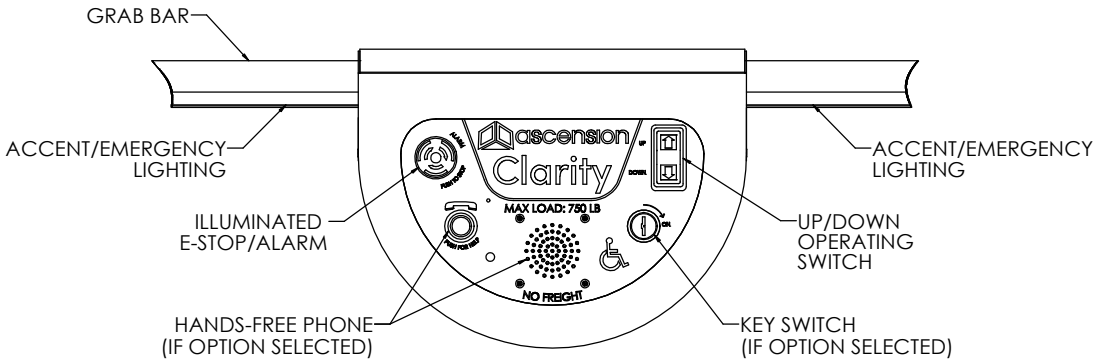
TOP VIEW



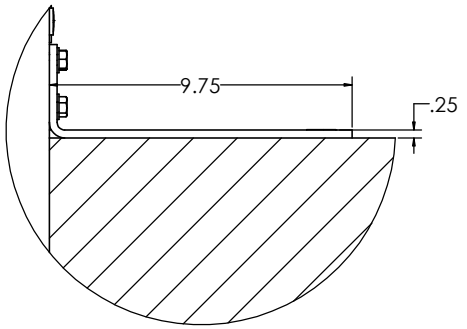
DESIGNED FOR PITLESS INSTALLATION ON TOP OF FINISHED FLOOR.

LOW-PROFILE PLATFORM WITH ENTRY THRESHOLD IAW ADAAG 404.2.5.

DETAIL A
SCALE 1 : 1
PLATFORM FLOOR
(ENCLOSURE HIDDEN)



PLATFORM CONTROLS
SCALE 1: 2



DETAIL B
SCALE 1 : 2
UPPER LANDING PLATE

SIZE	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY 16E	E
SCALE 1/16	RELEASE DATE	SHEET 2	

D SIZE SHT 2+ 11/01

FILE \Solidworks01\Ascension\CLARITY 16E.SLDDRW

CONFIGURATION

TOTAL TRAVEL	34" TO 168"
ENTRY/EXIT CONFIG.	STRAIGHT THROUGH
ENCLOSURE PROVIDED	FULL
DOME & VENTILATION	YES/NO

LOWER LANDING	
DOOR TYPE	80" DOOR
HANDING	RH/LH
DOOR OPERATOR	YES/NO
CALL STATION TYPE	WALL/FRAME MOUNT
CALL STATION KEYED	YES/NO

UPPER LANDING	
DOOR TYPE	46.5" GATE/ 80" DOOR
HANDING	RH/LH
DOOR OPERATOR	YES/NO
CALL STATION TYPE	WALL/FRAME MOUNT
CALL STATION KEYED	YES/NO

PLATFORM	
KEY SWITCH	YES/NO
HANDS-FREE PHONE	YES/NO
PLATFORM LIGHTING	STANDARD
SLIP-RESISTANT FLOOR	STANDARD

OUTDOORS	YES/NO
HOLLOW LANDING	YES/NO
PIT SWITCH	STANDARD
MANUAL LOWERING	STANDARD
AUDIBLE ALARM	STANDARD
BATTERY BACKUP	STANDARD

SPECIFICATIONS

DESCRIPTION	ENCLOSED VERTICAL PLATFORM WHEELCHAIR LIFT
CODE COMPLIANCE	ASME A18.1, ASME A17.5, NFPA 70 (NEC), ANSI A117.1, ADASAD (ADAAG)
APPLIED VERSION	ASME A18.1-2023
MODEL	CLARITY 16E
RATED LOAD	750 LB
RATED SPEED	20 FT/MIN
DUTY CYCLE	168 CYCLE-FT/HR (12 CYCLES/HR MINIMUM)
PLATFORM SIZE	36" X 56"
POWER SUPPLY	27VDC, 500W (18.5A)
BATTERIES	12V, 35A-h AGM SLA (2X)
CONTROL SYS.	24VDC
MOTOR	24VDC, 3 HP
DRIVING MEANS	2:1 CHAIN-HYDRAULIC

PLUNGER (2X)	1.25" SOLID
CYL. I.D. (2X)	2.00"
CYL. O.D. (2X)	2.38"
STROKE (2X)	(VARIES)

WORKING PSI	400 PSI
RELIEF PSI	600 PSI (1.5 X WP)

CHAIN TYPE	4X ANSI #50 ROLLER CHAIN
CHAIN STRENGTH	5045 LBF EACH
SAFETIES	2X TYPE A

DOOR LOCKS	IDEC HS5L

CONFIGURATION: FINISHES

LIFT COLOR (POWDER COAT)	☐ SILVER (STANDARD) ☐ BLACK ☐ CUSTOM:_____
HARDWARE COLOR	☐ SILVER (STANDARD) ☐ BLACK ☐ BRASS ☐ OIL RUBBED BRONZE
WINDOWS	☐ CLEAR PLEXIGLAS (STANDARD) ☐ TINTED PLEXIGLAS (30%) ☐ FROSTED PLEXIGLAS ☐ POWDER COATED STEEL
WINDOW ART	☐ NONE (STANDARD) ☐ CUSTOM LOGO/IMAGE

PROVISIONS BY OTHERS

GENERAL

HOISTWAY: HOISTWAY MUST BE SQUARE AND PLUMB WITHIN 1/4" TO ENSURE PROPER LIFT OPERATION. WHERE PROVIDED BY OTHERS, ENCLOSURE MUST BE DESIGNED AND BUILT IN ACCORDANCE WITH ASME A18.1 AND ALL APPLICABLE STATE AND LOCAL CODES.

REAR CABINET CLOSURE: VERTICAL SURFACE BEHIND MACHINE CABINET SHALL HAVE STRENGTH AND STIFFNESS EQUIVALENT TO 14GA (.08) SHEET STEEL. (PROVIDED BY ASCENSION IF OPTIONAL HOLLOW LANDING PACKAGE SELECTED).

DIMENSIONS: TOTAL TRAVEL HEIGHT MUST BE WITHIN ±3/8" OF NOMINAL. VERIFY ALL DIMENSIONS AND IMMEDIATELY REPORT ANY DISCREPANCIES.

FLOOR: FLOOR BENEATH UNIT AND DOOR SWINGS MUST BE FLAT AND LEVEL WITHIN 1/8". OUTDOORS, DRAINAGE SHALL NOT FLOW THROUGH OR INTO UNIT.

PIT/RAMP: DO NOT PROVIDE PIT OR RAMP. LIFT DESIGNED WITH LOW-PROFILE PLATFORM FLOOR FOR DIRECT ENTRY IAW ADAAG 404.2.5.

OVERHEAD CLEARANCE: MUST COMPLY WITH ALL APPLICABLE CODES.

CONSTRUCTION COORDINATION: OWNER/AGENT RESPONSIBLE FOR ALL MASONRY, CARPENTRY, DRYWALL, PATCHING, AND FINISHING WORK NEEDED PRIOR TO AND FOLLOWING LIFT INSTALLATION.

STRUCTURAL: SUPPORTING STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED TO SAFELY SUPPORT APPLIED LOADS IN ACCORDANCE WITH "CLARITY LOADING" DIAGRAM.

ELECTRICAL

GENERAL: ALL WIRING SHALL COMPLY WITH NFPA 70 (NEC).

POWER: 120VAC, 60HZ, 6A, 1PH CIRCUIT WITH DISCONNECT (SEE BELOW).

CONCEALED REAR ACCESS: CLEAR SPACE 7.25" X 7.50" (W x H) BEHIND LIFT AVAILABLE FOR WIRE ENTRY. SPACE CENTERED 10.88" RIGHT OF LIFT CENTERLINE AND NOMINALLY 6.88" ABOVE LOWER LANDING FLOOR.

SIDE ACCESS: TWO 1/2-14 NPSM THREADED HOLES ARE PROVIDED ON BOTH SIDES OF THE MACHINE CABINET. HOLES ARE NOMINALLY 2.25" AND 3.50" ABOVE LOWER FLOOR AND 1.00" FROM REAR VERTICAL WALL.

MAIN DISCONNECT SWITCH: OTHERS SHALL PROVIDE LOCKABLE FUSED DISCONNECT SWITCH IAW NFPA 70. SWITCH TO INCLUDE ADDITIONAL POLE OR CONTACT FOR DISCONNECTION OF CONTROLLER FROM 24V BACKUP SUPPLY.

LIGHTING: 54 LX MIN. AT PLATFORM AND LANDINGS.

ADDITIONAL AC CONNECTIONS: ADDITIONAL AC CONNECTIONS REQUIRED FOR:

VENTILATION SYSTEM (IF EQUIPPED), 120VAC 1.3A 60HZ 1PH.

DOOR OPERATOR(S) (IF BY OTHERS), POWER REQ. PER MANUFACTURER

PHONE: STANDARD PHONE CABLE WITH RJ11 PLUG CONNECTOR REQUIRED FOR OPTIONAL (ANALOG) HANDS-FREE PHONE, WHERE PROVIDED.

SIZE	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY 16E	E
SCALE 1/16	RELEASE DATE	SHEET 3	

D SIZE SHT 2+ 11/01

FILE \Solidworks01\Ascension\CLARITY 16E.SLDDRW

CLARITY LOADING - OPPOSING ENTRY & EXIT (16E, 16S)

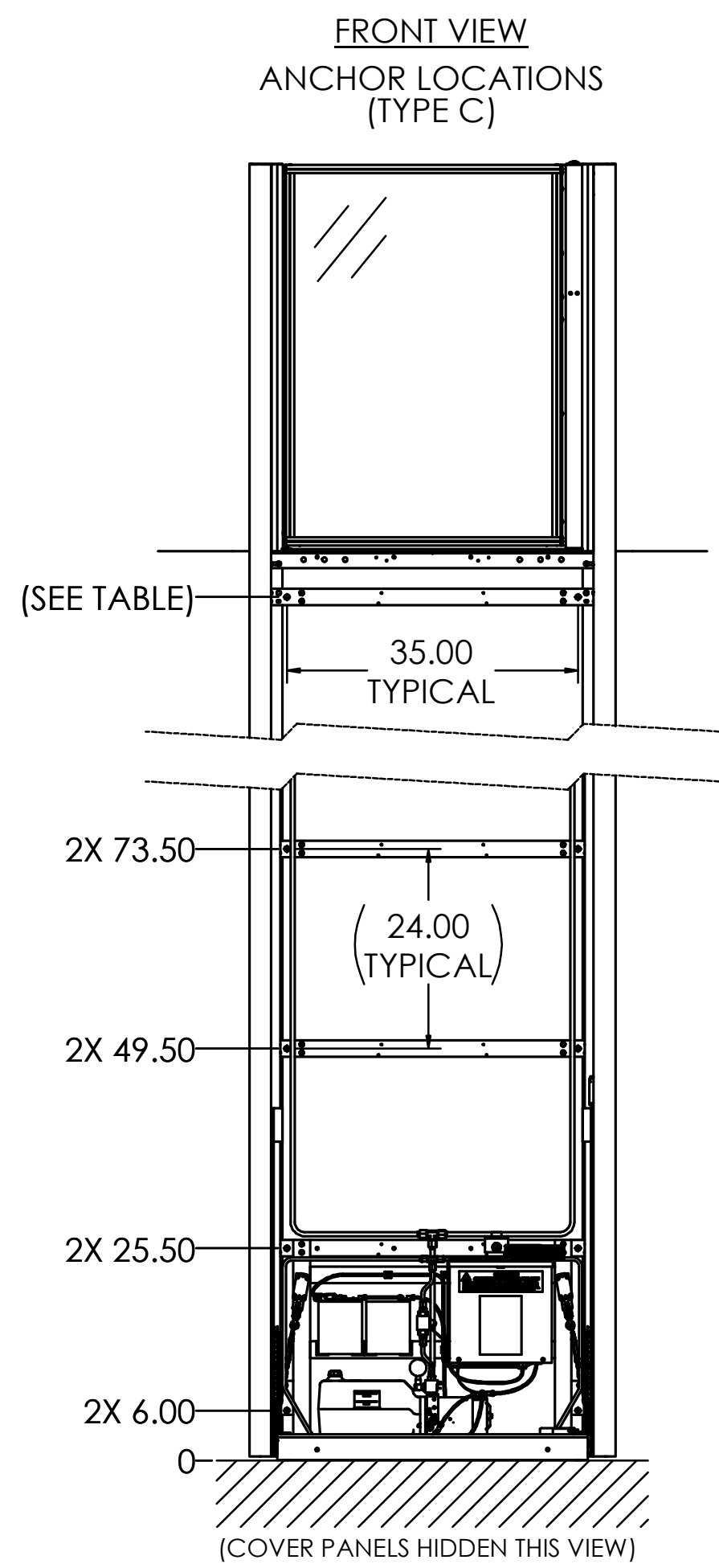
(GENERIC APPLICATION DEPICTED; ENCLOSURE NOT SHOWN)

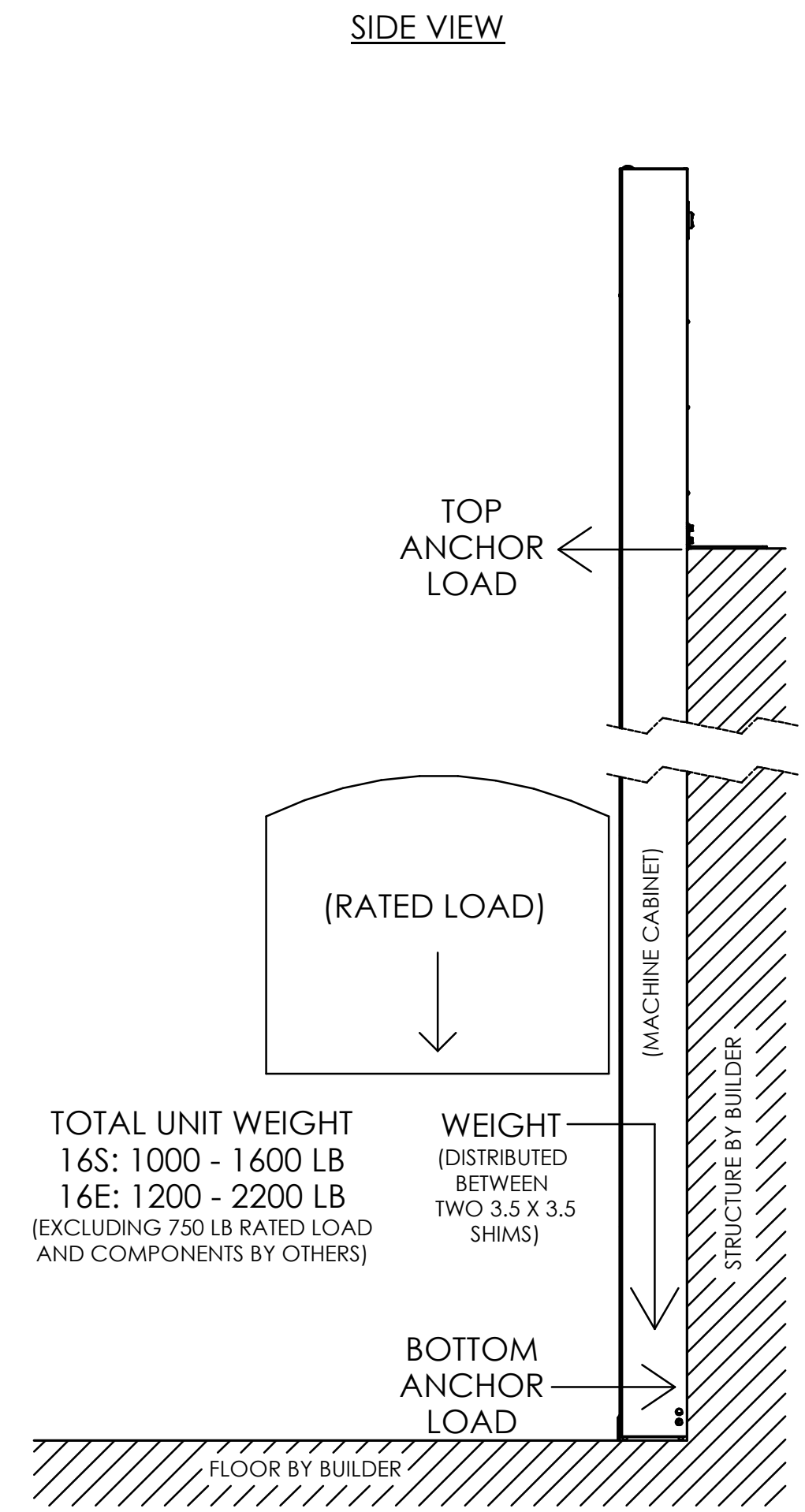
MACHINE CABINET ANCHORS				
ANCHORING REQUIREMENT	**ANCHOR LOCATION* (±.38) [IN]**	**# OF ANCHORS**	**TYPE (NEXT SHEETS)**	**APPLICABILITY**
ANCHOR AT ONE OF TOP LOCATIONS.	UPPER F.F.	3	A	CONCRETE LANDING
	1" BELOW	6	B	WOOD LANDING
OPTIONAL (USE OF OPTIONAL ANCHORS RECOMMENDED FOR MAXIMUM RIGIDITY)	145.50	2	C	TRAVEL > 148.5"
	121.50			TRAVEL > 124.5"
	97.50			TRAVEL > 100.5"
	73.50			TRAVEL > 76.5"
	49.50			TRAVEL > 52.5"
	25.50			ALL LIFTS
ANCHOR AT ONE OF BOTTOM LOCATIONS	6.00	2	C	ALL LIFTS
	LOWER F.F.	2	D	H.L. PKG ONLY
ENCLOSURE ANCHORS (16E MODEL ONLY)				
REQUIRED IF PRESENT	LOWER F.F.	2	F	16E ONLY

* ACTUAL LOCATIONS OF WALL ANCHORS MAY VARY AS MUCH AS ±3/8" FROM VALUES GIVEN ABOVE. MOUNTING STRUCTURE MUST BE ABLE TO ACCOMODATE THIS VARIABILITY.

MAX LOAD PER ANCHOR BY TRAVEL HEIGHT [LBF]**						MAX TOTAL HORIZONTAL LOAD [LBF]**
	ANCHOR TYPE (SEE TABLE ABOVE)					
TRAVEL	A	B	C	D	F	(FORCE ON STRUCTURE)
34.0 – 52.5	623	SPECIAL†	970	793	200	2050
52.5 – 76.5	375	192	575	508	200	1275
76.5 – 100.5	248	126	377	347	200	875
100.5 – 124.5	185	93	280	263	200	700
124.5 – 148.5	147	74	223	212	200	575
148.5 – 168.0	123	62	185	178	200	500

** LOADS LISTED ASSUME STATIC LOADING AND DO NOT INCLUDE WIND, SEISMIC, OR SAFETY FACTOR.
† WHEN USED, REQUIRES 6X TYPE B ANCHORS WITH 289 LBF MAX LOAD, 2X TYPE C ANCHORS AT 49.50 LOCATION WITH 189 LBF MAX LOAD, AND ANCHORING AT ONE OF THE BOTTOM LOCATIONS.





ADDITIONAL NOTES:

1. ANCHORS PROVIDED BY ASCENSION FOR COMMON MOUNTING APPLICATIONS. PROJECT STRUCTURAL ENGINEER RESPONSIBLE FOR EVALUATING SITE-SPECIFIC STRUCTURAL CONSIDERATIONS AND FINAL ANCHOR SELECTION.

STAINLESS-STEEL CONCRETE ANCHORS PROVIDED FOR OUTDOOR APPLICATIONS.

INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1994
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM] TOLERANCES:
DECIMALS .XX ± .015 .XXX ± .010 ANGLES ± .5°
DO NOT SCALE DRAWING

DRAWN: C.WILLIS DATE: 7-20-26
APPROVED By SAppleby at 12:05 pm, Jul 21, 2026

P.O. BOX 40020 TUCSON, ARIZONA 85717-0020
ascension®

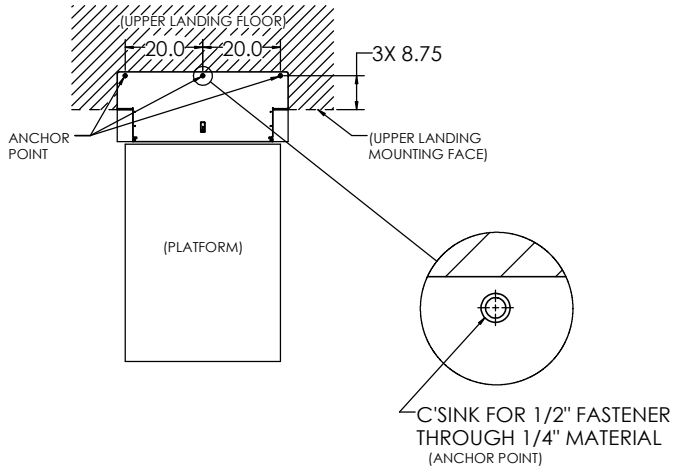
TITLE: CLARITY LOADING STRAIGHT THROUGH

SIZE: D FSCM NO. 08992 DWG. NO. CLARITY LOADING REV: G
SCALE 1/12 SHEET 1 OF 3

ANCHOR LOCATION TYPE: A

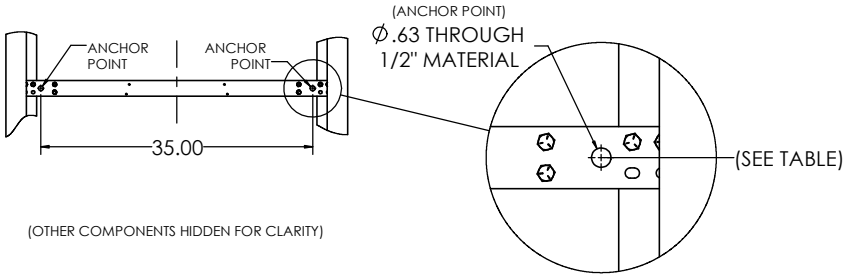
ANCHORS PROVIDED - FOR CONCRETE LANDINGS ONLY:
3X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)
3X 1/2-13 X 1" FLAT HEAD SCREWS

(FILLERS FOR ANCHOR HOLES PROVIDED FOR WOOD LANDINGS)



ANCHOR LOCATION TYPE: C

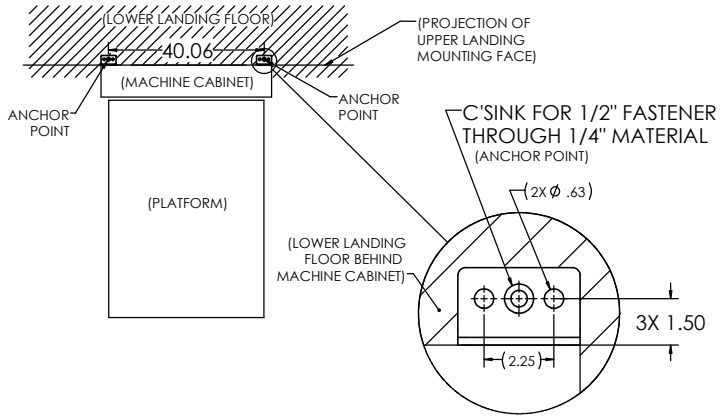
ANCHORS PROVIDED - FOR CONCRETE OR WOOD STRUCTURES:
2X (EACH) 1/2" X 4" CONCRETE ANCHORS
(EX: SIMPSON STRONG-TIE P/N THD50400H, THD50400H6SS, OR THD50400H4SS)
2X (EACH) 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)



ANCHOR LOCATION TYPE: D

(HOLLOW LANDING PACKAGE [H.L. PKG] ONLY)

ANCHORS PROVIDED - FOR NORMAL-WEIGHT CONCRETE FLOOR ONLY:
2X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)
2X 1/2-13 X 1" FLAT HEAD SCREWS

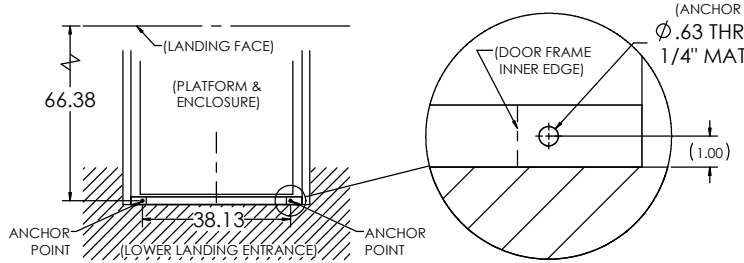


ANCHOR LOCATION TYPE: F

(CLARITY 16E ONLY)

ANCHORS PROVIDED - FOR CONCRETE OR WOOD FLOOR:
2X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)
2X 1/2-13 X 1" SCREWS

2X 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)



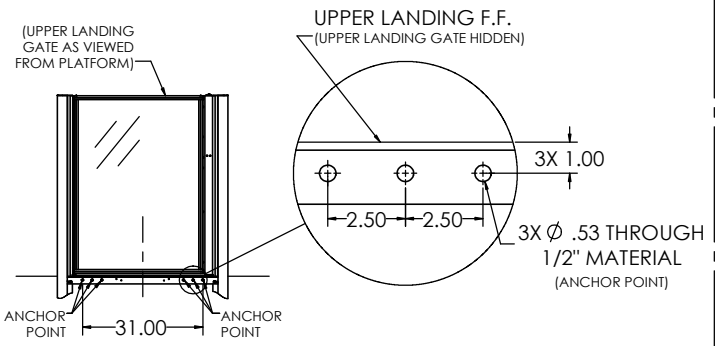
SIZE	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY LOADING	G
SCALE 1/12	RELEASE DATE	SHEET 2	

D SIZE SHT 2+ 11/01

FILE \Solidworks01\Ascension\CLARITY LOADING.SLDDRW

ANCHOR LOCATION TYPE: B

ANCHORS PROVIDED - FOR WOOD STRUCTURES ONLY:
6X 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)



REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED

SIZE	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY LOADING	G

SCALE 1/12 | RELEASE DATE | SHEET 3

D SIZE SHT 2+ 11/01

FILE \Solidworks01\Ascension\CLARITY LOADING.SLDDRW

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVAL

NOTES UNLESS OTHERWISE SPECIFIED:

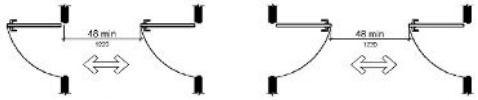
1. THIS DOCUMENT IS INTENDED TO ASSIST IN SITE PLANNING TO ENSURE REQUIRED CLEARANCES FOR LIFT AND REQUIRED ADA ENTRY CLEARANCES ARE PROVIDED.

2. ALL CLEARANCES SHOWN ARE THE **MINIMUM** CLEARANCES REQUIRED. OVERALL DIMENSIONS PROVIDED FOR MOST COMMONLY USED CONFIGURATION.

   NOTE: FOR NON-DIMENSIONED CLEARANCES, THE DIFFERENCE IS PROVIDED IN PARENTHESIS. EX: (+6), (-18), ETC.

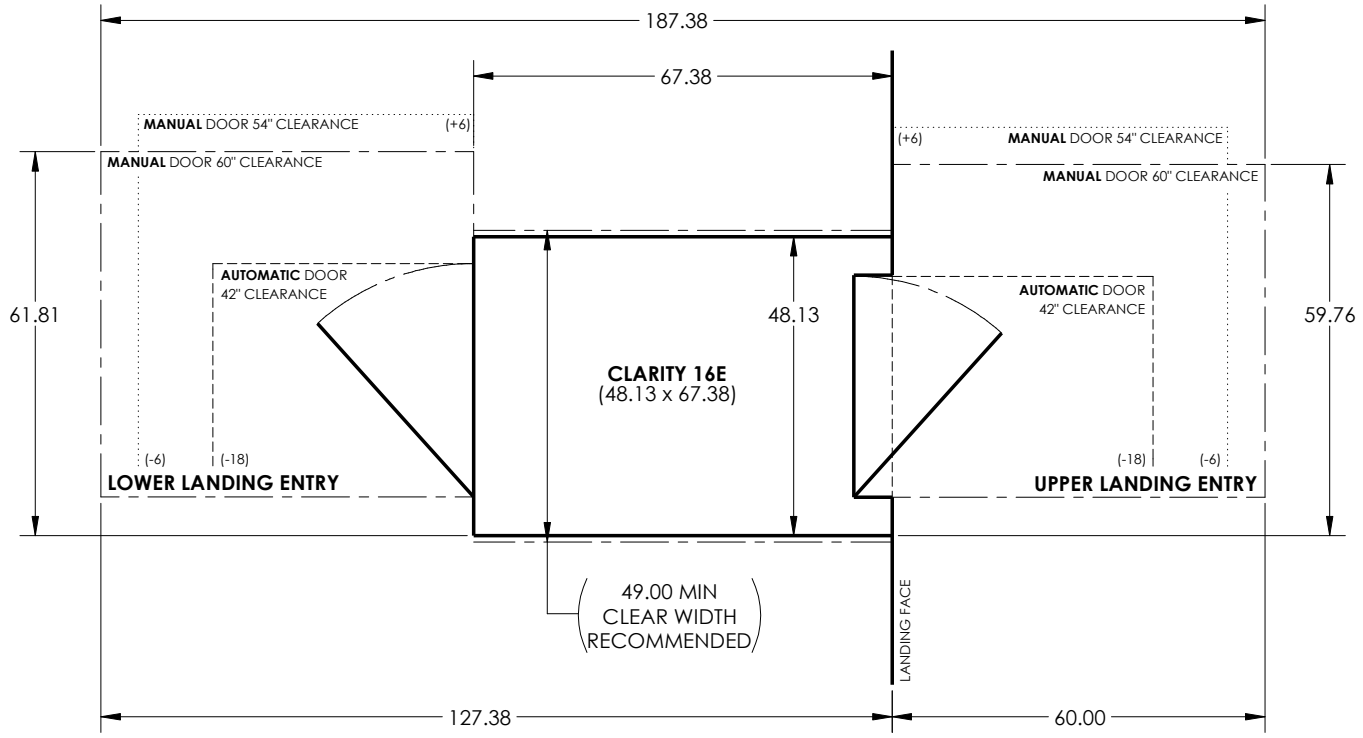
3. ONLY ONE OF THE THREE ADA-REQUIRED ENTRY CLEARANCES SHOWN AT EACH LANDING MUST BE PROVIDED. MIRROR ENTRY CLEARANCE FOR OPPOSITE DOOR SWING. ENTRY CLEARANCE ALLOWED TO BE OFFSET UP TO 8" MAXIMUM FROM THE FACE OF THE DOOR (FOR WHEN DOOR IS RECESSED).

   NOTE: ADDITIONAL CLEARANCE REQUIRED FOR DOORS IN SERIES; CLEARANCE OF 48" REQUIRED BETWEEN OPEN DOORS (SO EACH DOOR MAY BE NAVIGATED INDIVIDUALLY).



4. REQUIRES OVERHEAD CLEARANCE OF 80" ABOVE PLATFORM FLOOR AT UPPER LANDING.

(**GENERIC LIFT SHOWN**. MIRROR GATE SWINGS AND CORRESPONDING DIMENSIONS AS NECESSARY)



INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1994

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES:
DECIMALS .XX ± N/A .XXX ± N/A
ANGLES ± N/A

DO NOT SCALE DRAWING

CONTRACT NO.

DRAWN S.APPLEBY DATE 10-1-24

CHECK

APPROVED
By CWillis at 10:45 am, Oct 01, 2024

FINISH

MANUFACTURING

CUSTOMER

PART DASH NO. | NEXT | FINAL | NEXT ASSY. | USED ON
QTY. REQ'D PER ASSY. | APPLICATION
SIMILAR TO | ACT. WT. | CALC. WT.

agm **CONTAINER CONTROLS, INC.**
P.O. BOX 40020 - TUCSON, ARIZONA 85717-0020

TITLE **REQUIRED CLEARANCES FOR CLARITY 16E**

SIZE	FSCM NO.	DWG. NO.	REV.
B	08992	CLARITY 16E CLEARANCES	B

SCALE 1/20 RELEASE DATE SHEET 1 OF 1

B SIZE SHT 1 02/03

FILE \Solidworks01\Ascension\CLARITY 16E CLEARANCES.SLDDRW