

Generic Drawing Packet Instructions

Ascension has pre-prepared this drawing packet for a commonly selected lift configuration. In most situations, this generic drawing packet will be sufficient for the project bidding process. Upon notification that the project was awarded, or upon request, Ascension will closely review the project to determine the exact lift configuration to be ordered and will provide an updated project-specific drawing packet.

To expedite updating the drawing packet, please provide Ascension with all applicable application information available (architectural drawings, photos, etc.). In addition, it is strongly encouraged that the installer markup this generic drawing packet with any desired changes. Typically, most changes will be made to the options configuration table on Sheet 3. However, designated locations on the drawing are provided for required information:

Customer/Installer Required information:

- | | |
|-------------------|-----------|
| 1. Lifting Height | (Sheet 1) |
| 2. Door Handings | (Sheet 2) |

Common Review Notes- Ascension Protégé

Description: Below are notes that Ascension commonly provides during project reviews. Please review the notes and address them where applicable.

See “CLEARANCES” drawing from drawing packet. Manual doors require maneuvering space for users to be able to open them. Automatic doors just require enough space for the user to enter the lift. Automatic doors also typically require remotely mounted operating stations so the user may trigger the automatic door without getting hit by the door as it opens.

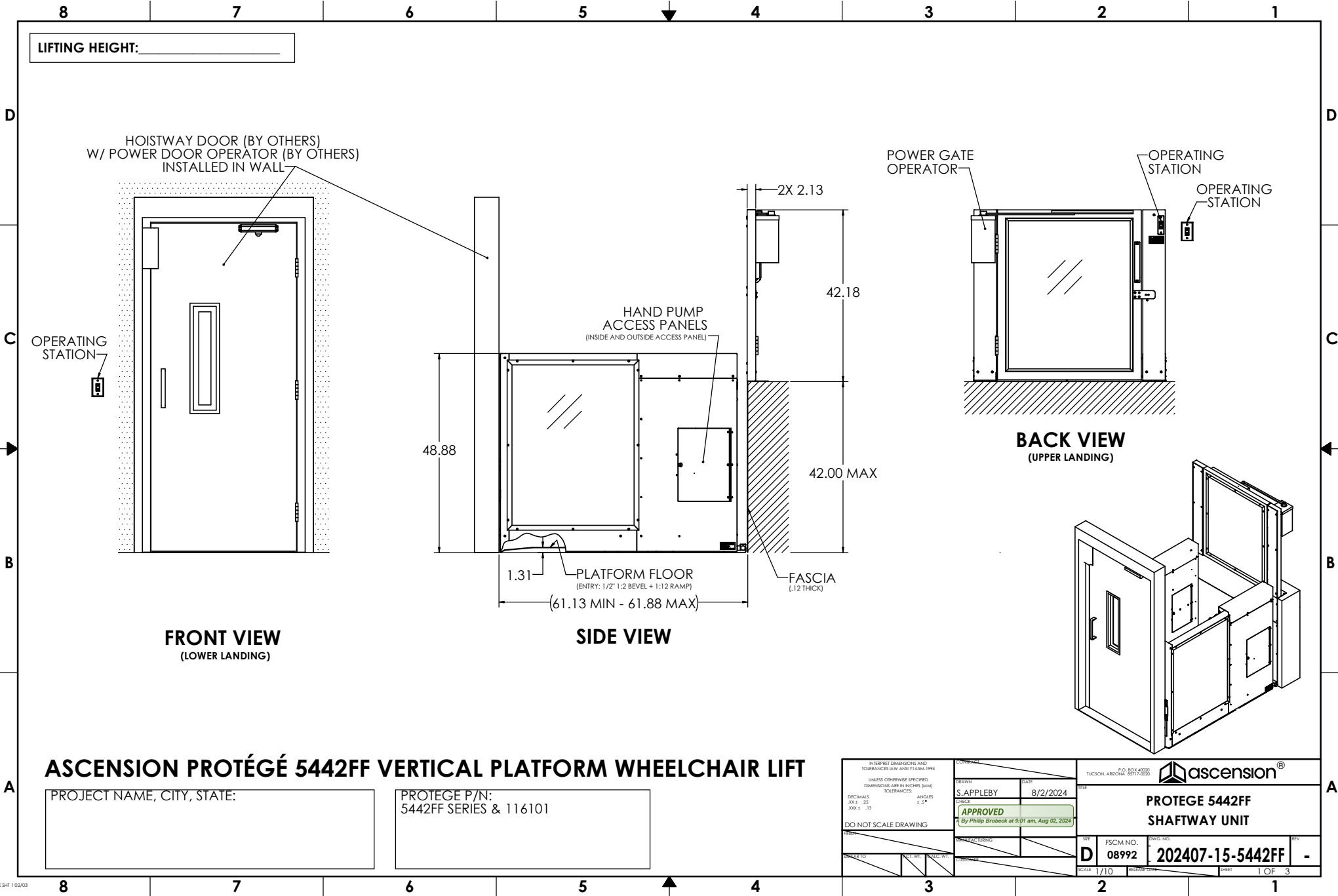
See “CLEARANCES” drawing from the drawing packet. The only objects allowed within 12” of the platform are smooth, unperforated vertical surfaces which do not pose shearing/crushing hazards. Please ensure any adjacent stair railings (or similar) do not pose such a hazard.

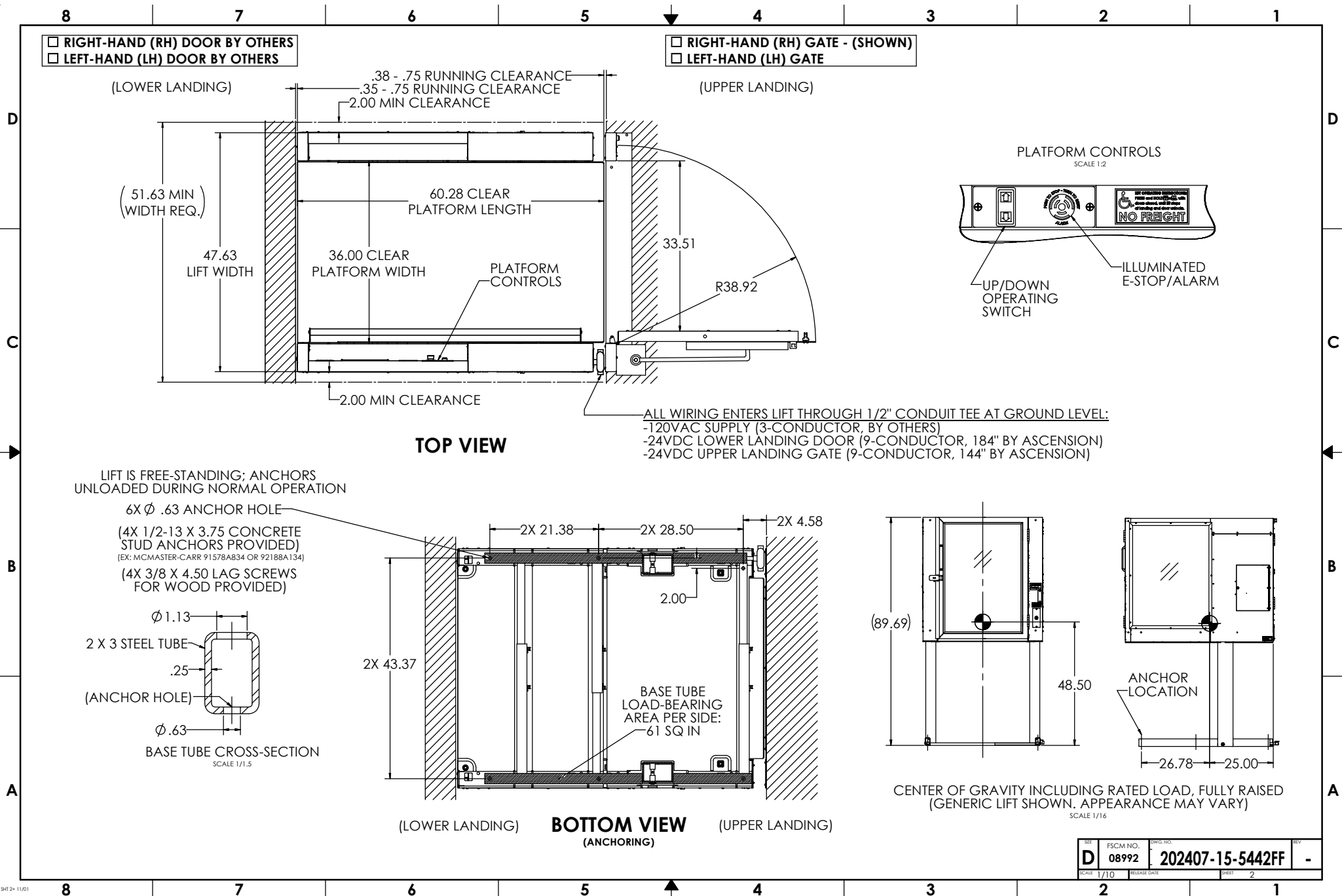
Generally, if the lift location is not normally occupied when the site is in use, two-way communication (hands-free phone) must be provided.

Where provided, the battery backup option is NOT rated for outdoor installation. Backup unit must be located indoors even when supplying a lift that is outdoors.

Protégé 5442FE/5442FF: *For typical Protégé 5442FE and 5442FF installations, manual operation (hand pump or front lowering valve) will not be accessible, so battery backup is required. Note that ASME A18.1-2020 and newer requires access to manual operation regardless of whether battery backup is provided or not.*

PRELIMINARY DRAWING: EXACT OPTIONS QUOTED MAY DIFFER FROM COMMON CONFIGURATION SHOWN; REFER TO QUOTE MARKUP DRAWING (SHEETS 1-3) WITH ANY DESIRED CHANGES AND UPDATED DRAWING WILL BE PROVIDED UPON ORDER OR REQUEST





REV	DESCRIPTION	DATE	BY	CHKD
D	08992	202407-15-5442FF	-	-
SCALE	1/10	RELEASE DATE	SHEET	2

CONFIGURATION

TOTAL TRAVEL	UP TO 42.00"
ENTRY/EXIT CONFIG.	STRAIGHT THROUGH
ENCLOSURE PROVIDED	NONE (BY OTHERS)

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ZONELITEREVISIONSDESCRIPTIONDATEAPPROVED

1. DESCRIPTION:
SPECIFICATIONS FOR DOOR AND INTERLOCK (BY OTHERS) FOR USE WITH
ASCENSION WHEELCHAIR LIFTS (16S, 16C, & CERTAIN 5442F SERIES LIFTS).

2. CODE REQUIREMENTS:
DOOR AND INTERLOCK TO COMPLY WITH ALL APPLICABLE CODES AND
REQUIREMENTS, INCLUDING ASME A18.1.
GENERAL REQUIREMENTS FOR REFERENCE ONLY:

- DOOR MUST BE SELF-CLOSING
- INSIDE OF DOOR MUST FORM SMOOTH, UNPERFORATED SURFACE FLUSH WITH
SURROUNDING FACES OF ENCLOSURE/HOISTWAY
- DOOR AND INTERLOCK MUST WITHSTAND A 125 LBF APPLIED FORCE
- DOOR MUST BE FIRE-RATED (IF APPLICABLE)

3. INTERLOCK SPECIFICATIONS:
INTERLOCK TO INCLUDE TWO (2) PARALLEL (SEPARATE) CONTACTS FOR LIFT'S
DOOR CLOSED AND DOOR LOCKED SIGNAL CIRCUITS. CONTACTS TO BE CLOSED
WHEN DOOR SHUT AND LOCKED.
INTERLOCK TO BE FAIL-SECURE, 24VDC, 0.5A MAX CURRENT DRAW.
(1.0A MAX CURRENT DRAW FOR PROTÉGÉ 5442F SERIES)

RECOMMENDED INTERLOCK MODELS:

- IDEC HS5L (HS5L-XD44M-G OR SIMILAR)
 - AVAILABLE FROM ASCENSION
- ATLAS ATLOCK (ATLOCK-LP5 (LH), ATLOCK-RP5 (RH), OR SIMILAR)
- HONEYWELL CDI (CDILBP1W (LH), CDIRBP1W (RH), OR SIMILAR)

4. RECOMMENDED HOISTWAY DOOR MANUFACTURER & MODEL:
BELCO DOORS
P/N: COM-316 (CONTACT BELCO DOORS OR ASCENSION FOR SPEC DRAWING)

STANDARD FEATURES:

- 1.5 HOUR FIRE RATING
- VISION PANEL
- PRIMED AND READY FOR PAINT

OPTIONS:

- "RH" OR "LH" HANDING
- CONCEALED POWER DOOR OPERATOR (PDO)
- OUTDOOR WEATHER PACKAGE

FIRE-RATED WOODEN DOOR OPTIONS AVAILABLE; CONTACT BELCO DOORS FOR MORE DETAILS.

SPECIFICATIONS FOR DOORS BY OTHERS
(FOR USE WITH ASCENSION LIFTS)

DOOR APPEARANCE FOR REFERENCE ONLY
("LH" HANDING SHOWN)

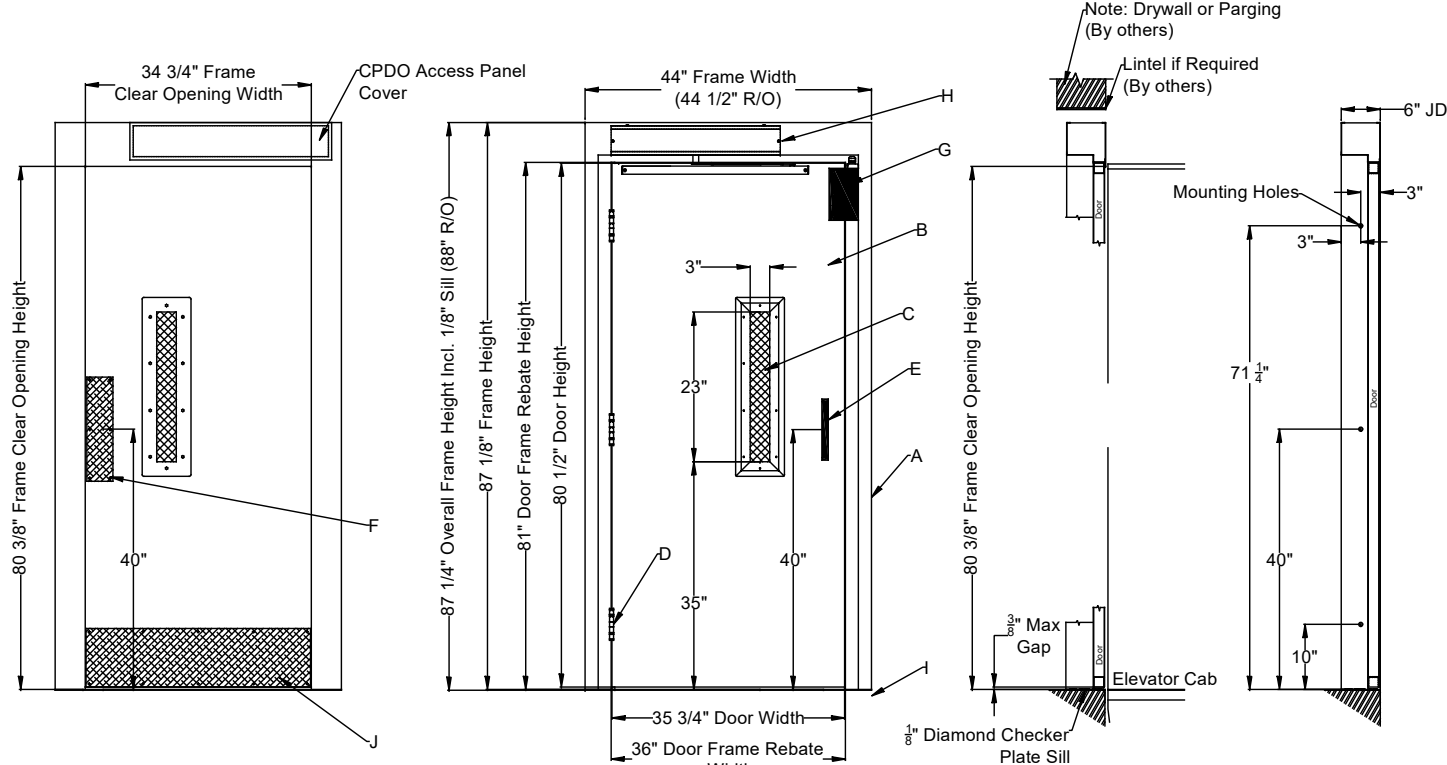
INTERPRET DIMENSIONS AND TOLERANCES (AWI 500.1)				DATE 11-8-22		P.O. BOX 40020 TUCSON, ARIZONA 85711-0020		ascension®	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES				DRAWN S. APPLEBY		SPECIFICATIONS FOR DOORS BY OTHERS			
DO NOT SCALE DRAWING				CHECKED APPROVED By Philip Brobeck at 12:00 pm, Nov 21, 2022		FSCM NO. 08992		DWG. NO. 16S DOOR	
PART DASH NO.				SCALE 1/8"		SHEET 1 OF 1		REV A	

D SIZE SH1 1 02/03

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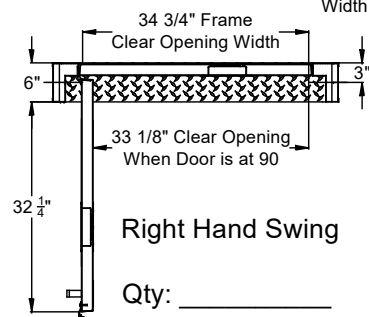
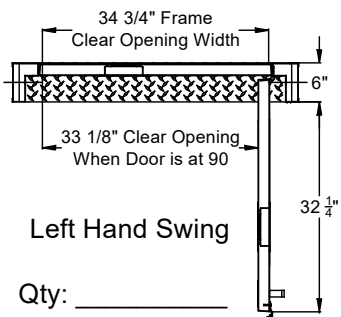
FILE: \\solidworks01\\Ascension\\16S DOOR.SLDRAW

BELCO DOORS COM-316 ORDER FORM

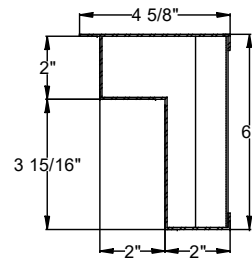


1-1/2 Hour Elevator Approved "B" Fire Label

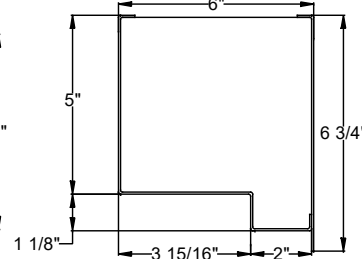
- A. 16ga. Frame (Galvanneal & Paint Ready)
- B. 18ga. Steel Door (Honeycomb Core, Galvanneal & Paint Ready)
- C. 3" x 23" Vision Panel (1/4" Wired Glass)
- D. (3) 4 1/2" NRP BB Hinges (US26D Finish)
- E. D-Handle (Brushed Aluminum)
- F. Push Plate (Brushed Aluminum)
- G. EMI Interlock (Atlas Atlock)
- H. Concealed PDO-110V (Optional)
- I. Flat Diamond Zinc Plated Sill with Sill Pins
- J. Kick Plate (Brushed Aluminum)



Side Jamb Profile



Head Jamb Profile

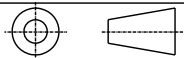


Standard Entrances are provided with a Manual Door Closer, if Power Door Operation is Required - Please Check Box Below

☐ Power Door Operation is Required

Standard Entrances are for Interior use, if Exterior Application Pkg. is Required - Please Check Box Below

☐ Exterior Application Pkg. Required



NIAGARA BELCO DOORS LTD. IS NOT RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE BUILDING AND ITS ABILITY TO SUPPORT THE ENTRANCE.

REV NO.	REVISION DESCRIPTION	DATE	BY
0	INITIAL RELEASE	2NOV22	JPH

AGM Container COM-316-3681-CPDO Size 36" x 81"			
SCALE:			
DRAWN BY:	DATE LAST MODIFIED:	DRAWING NO.	REV SHEET NO.
JPH	NOV 15 2022	COM-316-3681-CPDO	0 1 OF 1

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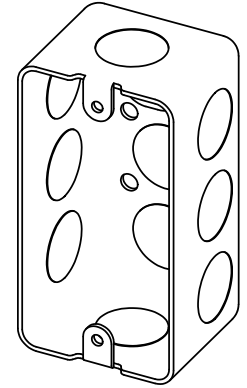
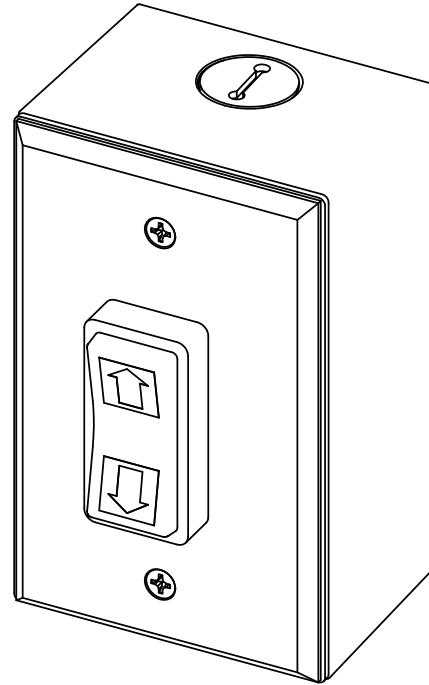
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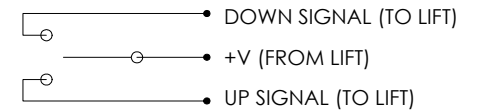
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NOTES UNLESS OTHERWISE SPECIFIED:

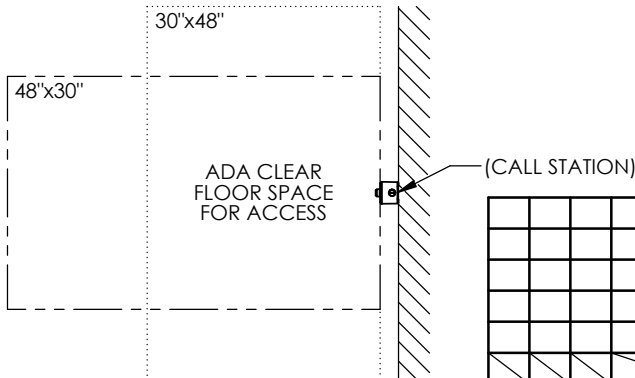
1. DESCRIPTION: REMOTELY LOCATED CALL STATION FOR ASCENSION VERTICAL PLATFORM WHEELCHAIR LIFT.
2. CHARACTERISTICS:
 - 2.1 COVER PLATE: STANDARD SIZE WALL PLATE (4.5" X 2.75"), BRUSHED STAINLESS STEEL.
 - 2.2 SWITCH: 3 POSITION ROCKER, REQUIRES CONSTANT PRESSURE TO ACTUATE.
 - 2.3 MOUNTING BOX: SURFACE MOUNT SINGLE GANG HANDY BOX, 2.00" DEEP.
 - 2.4 WEATHER RATING: SUITABLE FOR OUTDOOR USE.
3. ADA REQUIREMENTS:
 - 3.1 MOUNT BETWEEN 15" AND 48" ABOVE FLOOR.
IAW ADAAG 308.2 OR 308.3
 - 3.2 PROVIDE 30"x48" OR 48"x30" CLEAR FLOOR SPACE FOR ACCESSING CALL STATION.
IAW ADAAG 309.2 & 305

NOTE: CLEAR FLOOR SPACE MUST BE OUTSIDE SWING OF AUTOMATIC DOORS AND GATES.COVER PLATE COMPATIBLE WITH
1-GANG BOX FOR FLUSH WALL MOUNT
(BOX SHOWN NOT PROVIDED)

WIRING:



(3) 1/4" QUICK-DISCONNECT TERMINALS (PROVIDED)



				INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1994				CONTRACT NO.			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				DRAWN			
				TOLERANCES:				S.APPLEBY			
				DECIMALS .XX ± N/A .XXX ± N/A				CHECK			
				ANGLES ± N/A				DATE			
				DO NOT SCALE DRAWING				9-16-22			
				FINISH				APPROVED			
				PART DASH NO.				By Philip Brobeck at 12:47 pm, Oct 04, 2022			
				QTY. REQ'D PER ASSY.				MANUFACTURING			
				APPLICATION				CUSTOMER			
				SIMILAR TO							
				ACT. WT.							
				CALC. WT.							

αGM CONTAINER CONTROLS, INC.			
P.O. BOX 40020 - TUCSON, ARIZONA 85717-0020			
TITLE			
OPERATING STATION (CALL BOX) WALL MOUNTED			
SIZE	FSCM NO.	DWG. NO.	REV.
B	08992	115712	D
SCALE	1/1	RELEASE DATE	SHEET 1 OF 1

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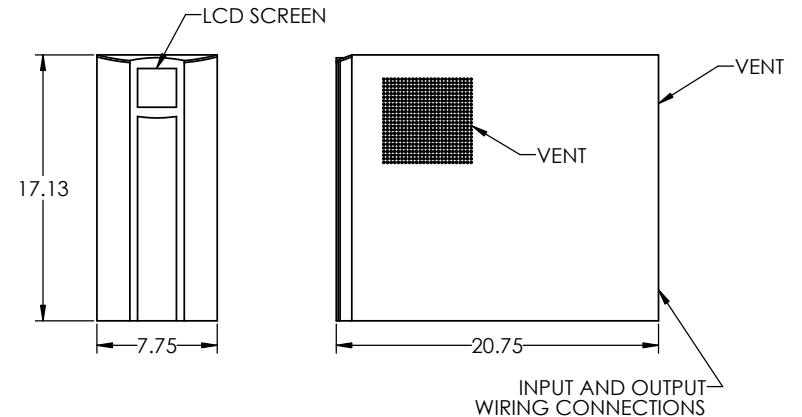
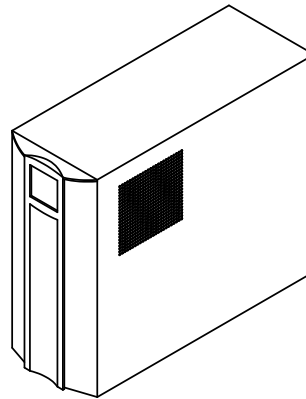
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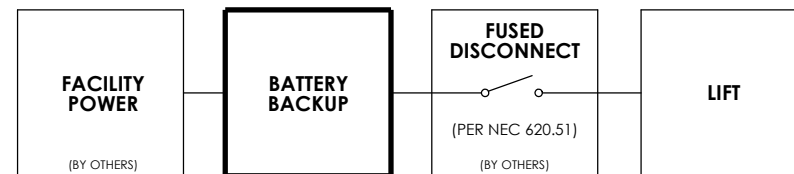
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NOTES UNLESS OTHERWISE SPECIFIED:

1. DESCRIPTION: BATTERY BACKUP FOR ASCENSION LIFTS.
2. OPERATION:
 - 2.1 FOR USE WITH ASCENSION VIRTUOSO AND PROTÉGÉ MODEL WHEELCHAIR LIFTS.
 - 2.2 PROVIDES STANDBY POWER FOR MINIMUM OF 5 FULL LIFTING CYCLES CARRYING LIFT'S RATED LOAD.
 - 2.3 FOR INDOOR USE ONLY.
3. PHYSICAL CHARACTERISTICS:
 - 3.1 MATERIAL: STEEL ENCLOSURE WITH PLASTIC TRIM
 - 3.2 FINISH: POWDER COATED, BLACK
 - 3.3 WEIGHT: 112 LBS
4. SPECIFICATIONS:
 - 4.1 INPUT: 120VAC, 20A, HARDWIRED (FROM FACILITY)
 - 4.2 OUTPUT: 120VAC, 20A, HARDWIRED (TO LIFT)
 - 4.3 BATTERY: SEALED LEAD ACID
5. MAIN DISCONNECT SWITCH SHALL ELECTRICALLY ISOLATE LIFT FROM BACKUP UNIT. SEE DIAGRAM.
6. BACKUP UNIT MAY BE LOCATED REMOTELY FROM LIFT PROVIDED VOLTAGE SUPPLIED AT LIFT IS 120VAC \pm 6VAC.
EX: MAX ALLOWABLE CIRCUIT (TO LIFT AND BACK) OF 125 FT OF 12 AWG COPPER WIRE.
7. INSTALLATION SHALL ALLOW BACKUP UNIT'S INTERNAL FAN TO DISSIPATE HEAT GENERATED BY UNIT. ASCENSION RECOMMENDS NO LESS THAN 20 SQ. IN. OPEN VENT AREA FOR INSTALLATIONS IN CONFINED SPACES. UNIT MAY BE INSTALLED ON ITS SIDE (WITH SIDE VENT FACING UP).
8. TO PREVENT PREMATURE FAILURE OF INTERNAL BATTERIES, BACKUP UNIT MUST BE SETUP OR OTHERWISE CHARGED WITHIN THREE (3) WEEKS OF RECEIPT OF THE UNIT.



WIRING DIAGRAM WITH BATTERY BACKUP



<small>INTERPRET DIMENSIONS AND TOLERANCES (ANSI Y14.5M-1994)</small> <small>UNLESS OTHERWISE SPECIFIED</small> <small>DIMENSIONS ARE IN INCHES (MM)</small> <small>TOLERANCES</small> <small>DECIMALS</small> <small>XXX.X - .25</small> <small>XXX.X - .125</small>		<small>DRAWN</small> S. APPLEBY	<small>DATE</small> 10-26-22	<small>FILE</small> ASCENSION BATTERY BACKUP WITH HARDWIRE KIT	
<small>DO NOT SCALE DRAWING</small>		<small>APPROVED</small> <i>By Philip Brobeck at 8:48 am, Nov 10, 2022</i>		<small>SCALE</small> 1/4"	
<small>REVISIONS</small>		<small>REVISIONS</small>		<small>REV</small> B	
<small>DATE</small> 10-26-22		<small>BY</small> D		<small>FILE NO.</small> 08992	
<small>DATE</small> 10-26-22		<small>BY</small> D		<small>FILE NO.</small> 116101	
<small>DATE</small> 10-26-22		<small>BY</small> D		<small>FILE NO.</small> 116101	

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NOTES UNLESS OTHERWISE SPECIFIED:

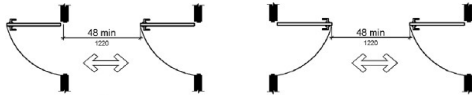
1. THIS DOCUMENT IS INTENDED TO ASSIST IN SITE PLANNING TO ENSURE REQUIRED CLEARANCES FOR LIFT AND REQUIRED ADA ENTRY CLEARANCES ARE PROVIDED.

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).

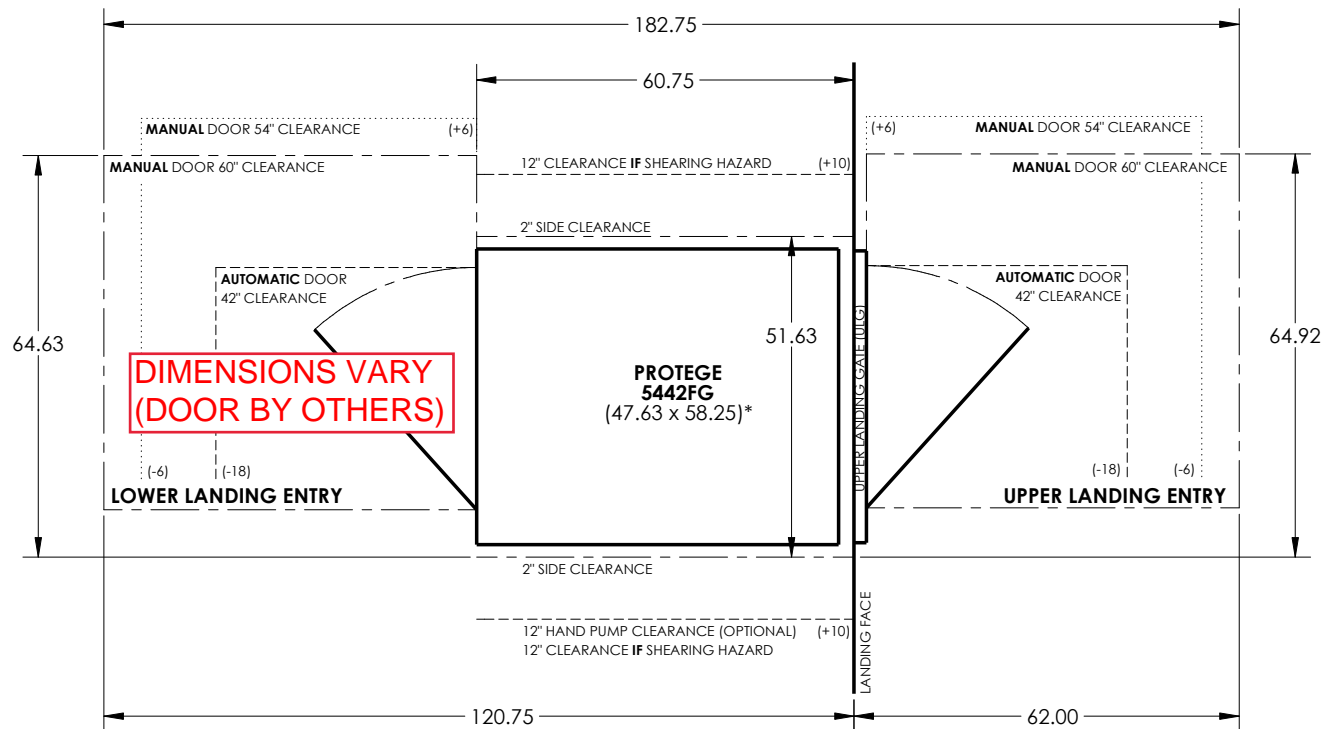
NOTE: ADDITIONAL CLEARANCE REQUIRED FOR DOORS IN SERIES; CLEARANCE OF 48" REQUIRED BETWEEN OPEN DOORS (SO EACH DOOR MAY BE NAVIGATED INDIVIDUALLY).



4. THE ONLY OBJECTS ALLOWED WITHIN 12" OF THE PLATFORM ARE SMOOTH, UNPERFORATED VERTICAL SURFACES WHICH DO NOT POSE SHEARING/CRUSHING HAZARDS. THIS APPLIES THROUGHOUT ENTIRE REQUIRED VERTICAL CLEARANCE (SEE NEXT NOTE).

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

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



*AUTOMATIC DOOR OPERATORS INCREASE OVERALL LIFT/ULG WIDTH (AND REQUIRED WIDTH CLEARANCE) BY 0.69"

				INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1994		CONTRACT NO.		αGM CONTAINER CONTROLS, INC.	
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN S.APPLEBY		P.O. BOX 40020 - TUCSON, ARIZONA 85717-0020	
				TOLERANCES:		DATE 10-1-24		TITLE	
				DECIMALS .XX ± N/A .XXX ± N/A		CHECK APPROVED		REQUIRED CLEARANCES FOR	
				ANGLES ± N/A		By CWillis at 10:39 am, Oct 01, 2024		PROTEGE 5442FG	
				DO NOT SCALE DRAWING		MANUFACTURING		REV.	
				FINISH		CUSTOMER		B	
PART DASH NO.		QTY. REQ'D PER ASSY.	FINAL	NEXT ASSY.	USED ON	SIMILAR TO	ACT. WT.	CALC. WT.	SCALE 1/20
									RELEASE DATE
									SHEET 1 OF 1

SIZE B	FSCM NO. 08992	DWG. NO. PROTEGE 5442FG CLEARANCES	REV. B
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