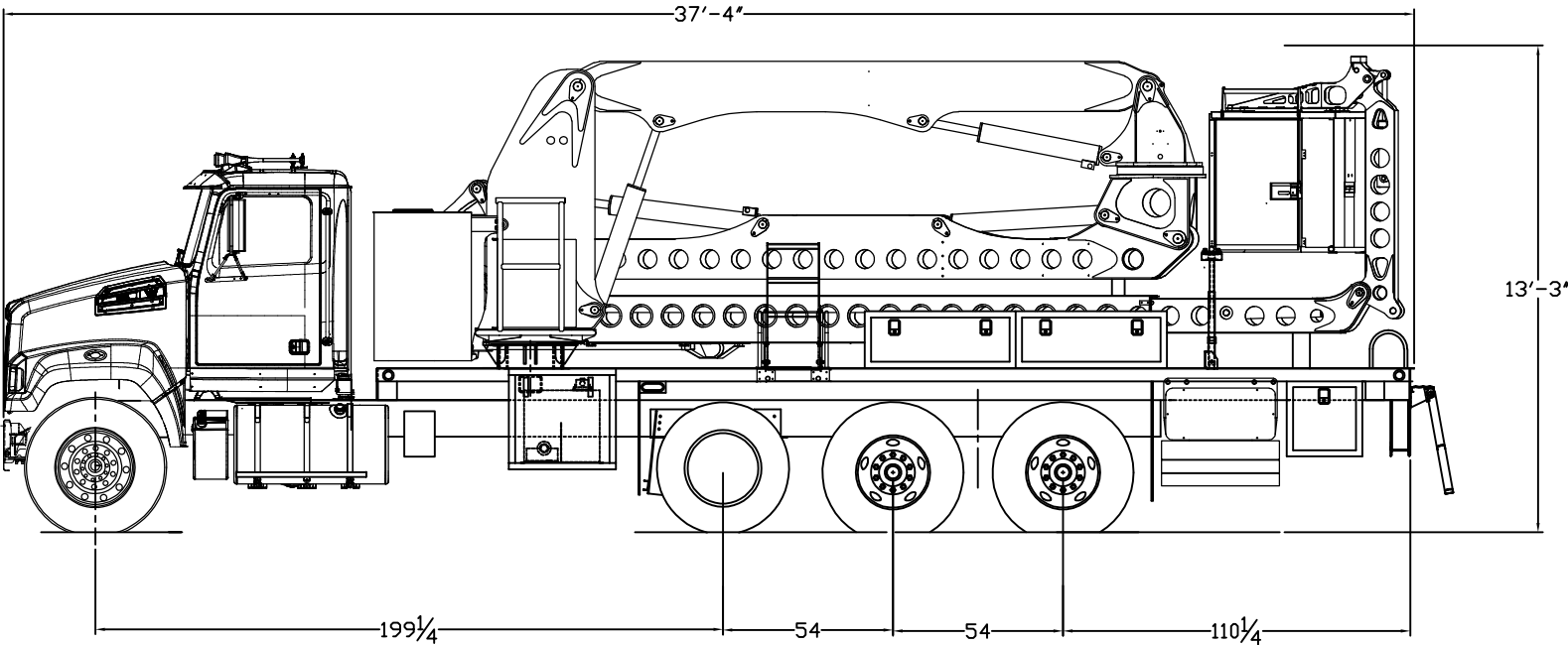


VEHICLE: 2022 WESTERN STAR 4700 SF
VIN: 5KKMAVDV6NPNC9205
ASPEN S/N : 10378



FRONT STEER
WEIGHT
15,520 LB

TIRE
(2) 425/65R22.5

SECOND STEER
WEIGHT
11,280 LB

TIRE
(4) 11R22.5H

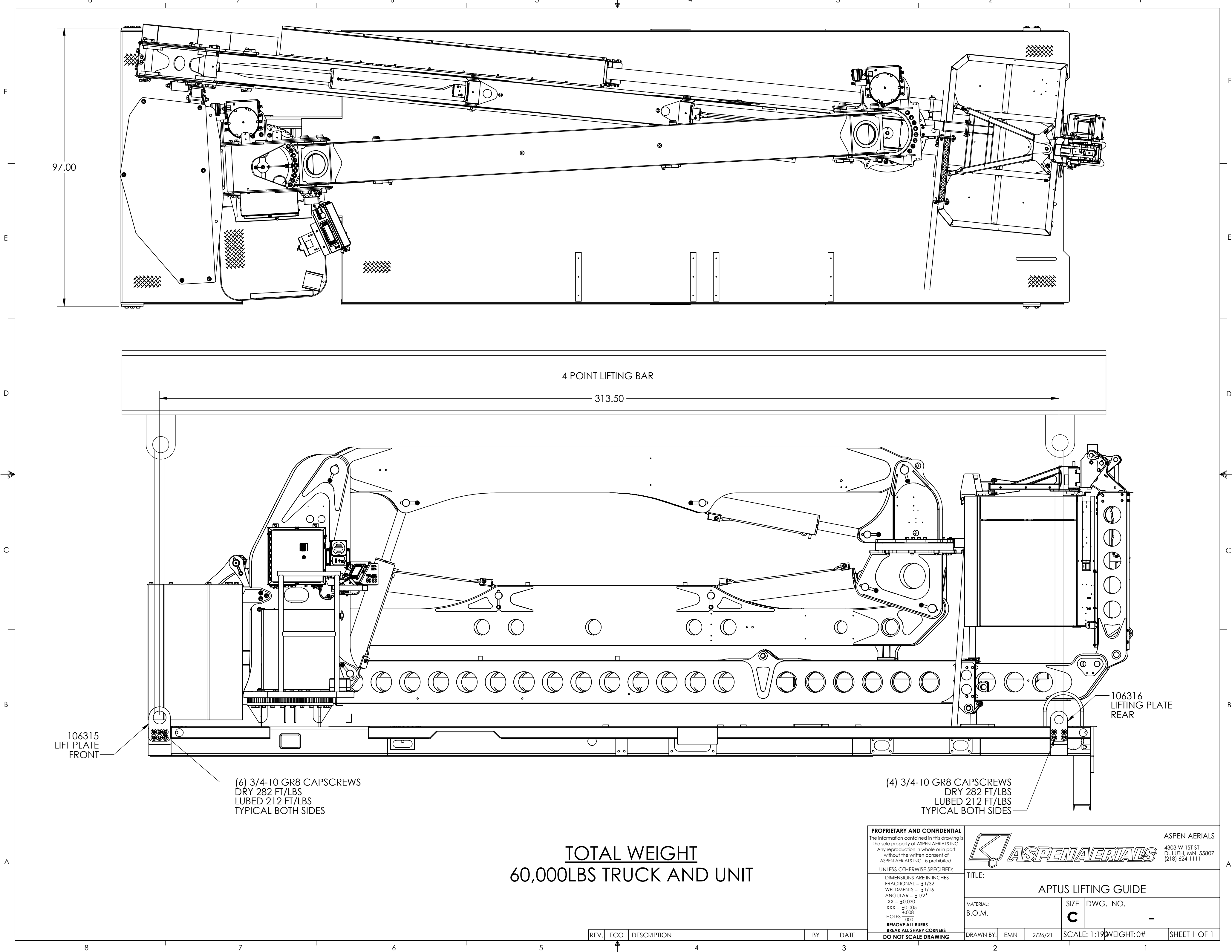
TANDEM AXLE
WEIGHT
32,100 LB

TIRE
(8) 11R22.5H

TOTA WEIGHT
58,900 LB

INDIVIDUAL AXLE WEIGHTS MAY VARY +/- 2% OF FIGURE SHOWN

DO NOT SCALE THIS DRAWING				ASPEN AERIALS INC. 4000 10TH AVE. S.W. - SUITE 100 - DENVER, CO 80202			
WEIGHT AND DIMENSIONS AS2 APTUS				NAME OF CLARK 6-8-21			
REV. NO. 1/1				B 10378			
NEW RELEASE AUTHORIZATION				DATE 6-8-21			
REVISED BY				DATE			
REVISED BY				DATE			



REV.	ECO	DESCRIPTION	BY	DATE

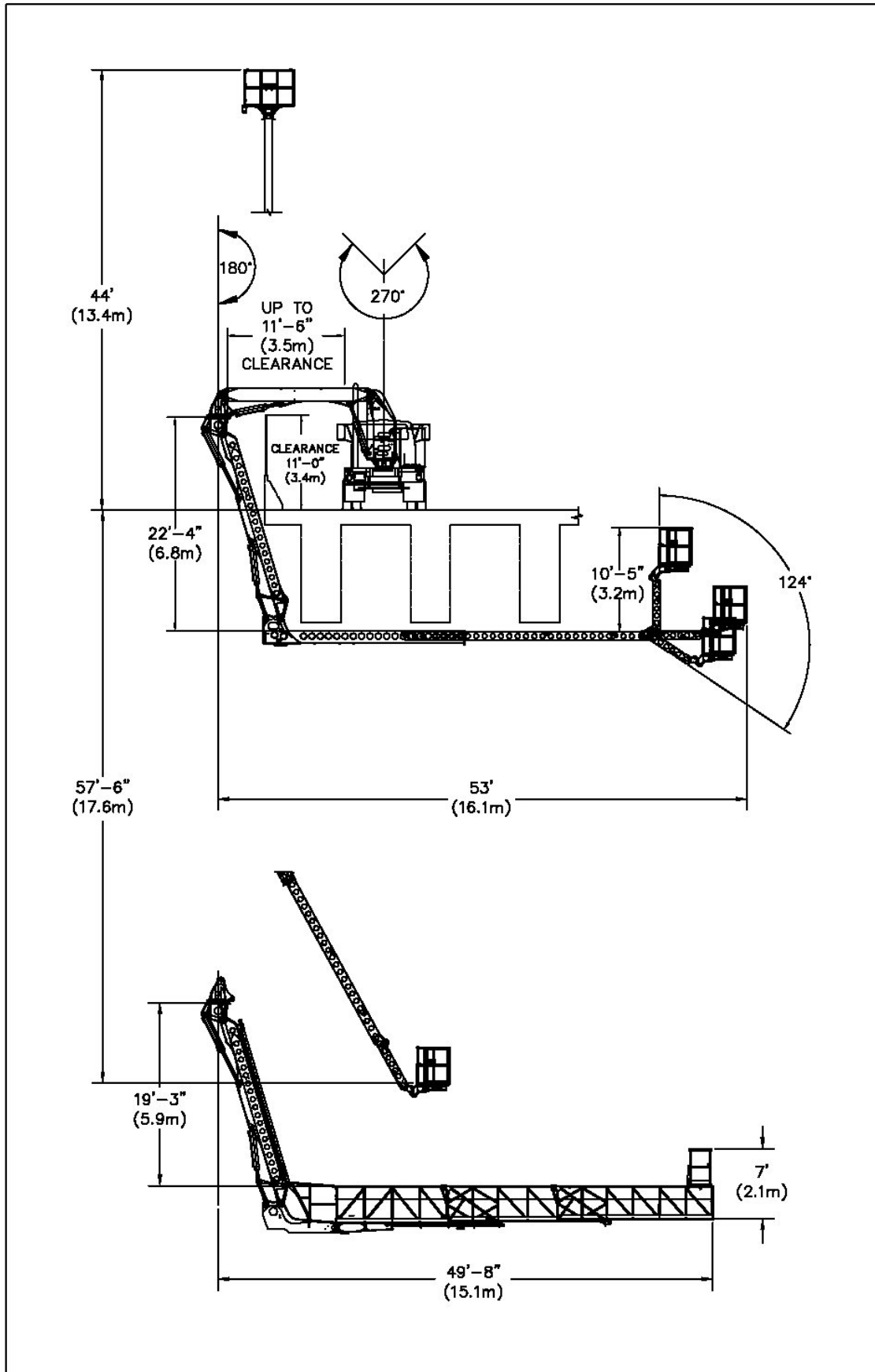
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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
FRACTIONAL = $\pm 1/32$
WELDMENTS = $\pm 1/16$
ANGULAR = $\pm 1/2^\circ$
.XX = ± 0.030
.XXX = ± 0.005
+ .008
HOLES $\pm .000$
REMOVE ALL BURRS
BREAK ALL SHARP CORNERS
DO NOT SCALE DRAWING



ASPEN AERIALS
4303 W 1ST ST
DULUTH, MN 55807
(218) 624-1111

TITLE: APTUS LIFTING GUIDE			
MATERIAL: B.O.M.		SIZE C	DWG. NO. -
DRAWN BY:	EMN	2/26/21	SCALE: 1:192WEIGHT:0#
			SHEET 1 OF 1



UNIT IDENTIFICATION PLATE

SERIAL NUMBER: **10378**
YEAR OF MANUFACTURE: **6-2021** MODEL NUMBER: **A52**
SYSTEM HYDRAULIC PRESSURE: **281 KG/CM² 4,000 PSI**
LEVELING SYSTEM PRESSURE: **211 KG/CM² 3,000 PSI**
SYSTEM VOLTAGE: **12V DC**
STOWED HEIGHT: **4.08M 13'-05"**
PLATFORM CAPACITY: **3 PERSONS OR 272 KG 600 LB.**
WALKWAY CAPACITY RETRACTED **3 PERSONS OR 750 LB 340 KG**
WALKWAY CAPACITY EXTENDED **5 PERSONS OR 1500 LB 680 KG**
WALKWAY CAPACITY PER SECTION **2 PERSONS OR 500 LB 227 KG**
MAXIMUM ALLOWABLE WIND SPEED: **16 M/SEC 35 MPH**
MAXIMUM MANUAL FORCE: **400 N 90 LB**
PLATFORM UNDERBRIDGE REACH: **15.8 M 52 FT**
WALKWAY UNDERBRIDGE REACH: **15.8 M 52 FT**
PLATFORM VERTICAL REACH: **14.32 M 47.0 FEET**
MAXIMUM WORKING GRADE: **3°**
MAXIMUM WORKING SUPER ELEVATION: **5°**
CAPACITY RATING IS BASED ON THE UNIT BEING MOUNTED IN ACCORDANCE
WITH FACTORY INSTRUCTIONS ON A VEHICLE APPROVED BY FACTORY, WITH
FACTORY RECOMMENDED STABILIZERS, HYDRAULIC SPRING LOCKOUTS.

FRONT COUNTERWEIGHT INSTALLED: **3,628 KG 8,000 LB**
REAR COUNTERWEIGHT INSTALLED: **3,282 KG 7,235 LB**

NOTE: THIS UNIT HAS NO DIELECTRIC RATING!

**WARNING: DO NOT ATTEMPT TO OPERATE THIS MACHINE
UNLESS YOU ARE FULLY TRAINED IN SAFE AND
PROPER OPERATING PROCEDURES AS WRITTEN
IN THE MANUFACTURE'S OPERATION MANUAL.**

**THE OWNER OR OPERATOR OF THIS UNIT MUST PERFORM DAILY,
FREQUENT AND ANNUAL INSPECTIONS AS DESCRIBED IN
SECTION 1 OF THE "SERVICE, PARTS AND OPERATORS MANUAL"
PROVIDED WITH THIS UNIT.**

CLASSIFICATION RATING: ANSI A92.20

MANUFACTURED BY:
ASPEN AERIALS INC. - 4303 WEST FIRST STREET - DULUTH, MN


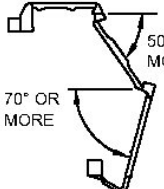


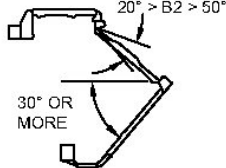
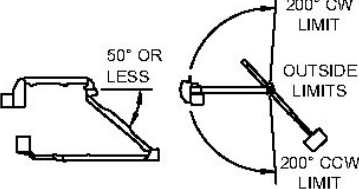
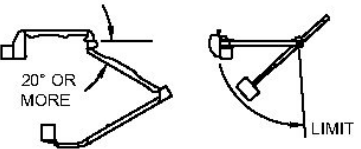
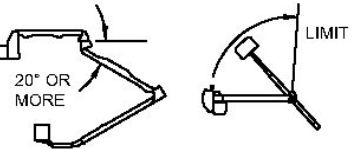
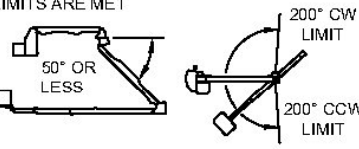
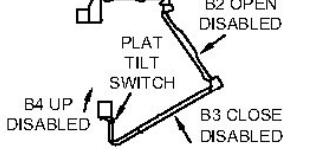
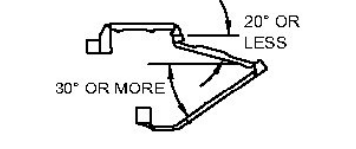
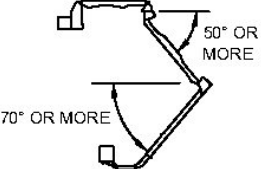
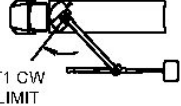
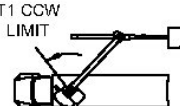
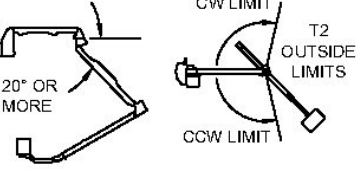



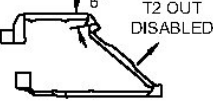
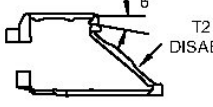


MFD. BY: **Aspen Aerials**
Duluth, MN 55807
DATE OF MFR:
MO. **06** YR: **2021**
INC. VEH. MFD. BY:
DIAMLER TRUCKS N.A. LLC
DATE OF INC. VEH. MFR.
MO. **03** YR: **2021**
GVWR:
38,556 KG **85,000** LB
GAWR-FRONT
9,072 KG **20,000** LB
GAWR-PUSHER LIFT AXLE
8,618 KG **19,000** LB
GAWR DRIVE AXLE (1)
10,433 KG **23,000** LB
GAWR DRIVE AXLE (2)
10,433 KG **23,000** LB
THIS VEHICLE CONFORMS
TO ALL APPLICABLE USA
FEDERAL MOTOR VEHICLE
SAFETY STANDARDS IN
EFFECT IN:
MO. **06** YR. **2021**
VEHICLE ID. NO:
5KKMAVDV6NPNC9205
VEHICLE TYPE:
TRUCK

SUITABLE TIRE-RIM CHOICE
FRONT: **425/65R22.5L** TIRES
22.5 X 12.25 RIMS, @
120 PSI COLD SINGLE
PUSHER LIFT AXLE
11R22.5H TIRES
22.5 X 8.25 RIMS, @
120 PSI COLD DUAL
DRIVE AXLE (1):
11R22.5H TIRES
22.5 X 8.25 RIMS, @
120 PSI COLD DUAL
DRIVE AXLE (2):
11R22.5H TIRES
22.5 X 8.25 RIMS, @
120 PSI COLD DUAL

10378

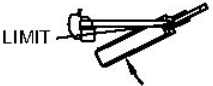

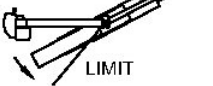
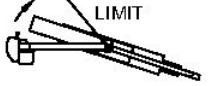
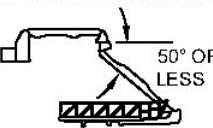
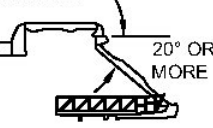
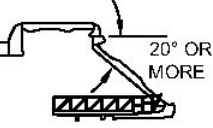
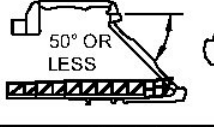
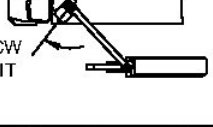

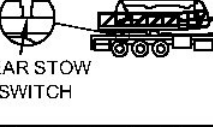
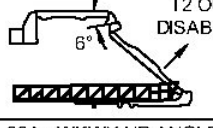
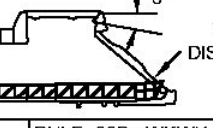
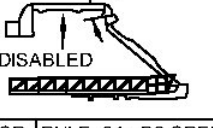
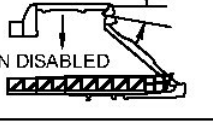

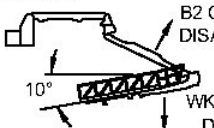
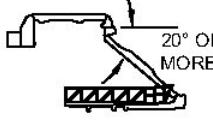
Operation

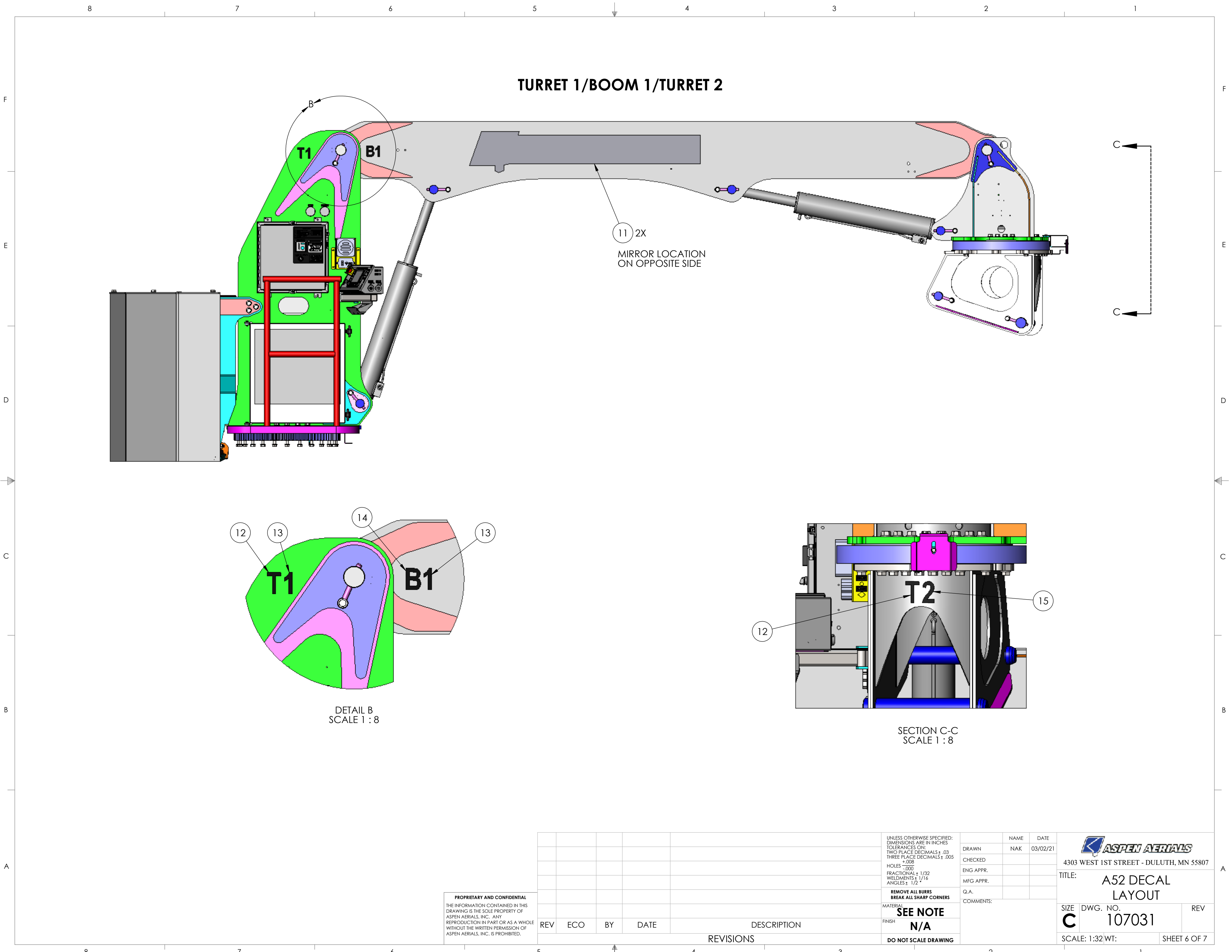
Operating rules when the boom and 3-person platform is installed.

A52 FLIGHT PLAN - BOOM AND PLATFORM			#107015
RULE 1 - BOOM 2 50° DISABLES B3 TELE EXTEND UNTIL BOOM 2 IS OPEN BEYOND 50° 	RULE 2 - BOOM 2 50° DISABLE B2 CLOSE, B3 OPEN, AND B4 DOWN WHEN B2 IS OPEN PAST 50° AND B3 IS OPEN PAST 70° 	RULE 3A - T2 360° CW DISABLES T2 CW ROTATION WHEN T2 CW LIMIT ANGLE IS REACHED  RULE 3B - T2 360° CCW DISABLES T2 CCW ROTATION WHEN T2 CCW LIMIT ANGLE IS REACHED 	RULE 4 - B2 20° - 50°, B3 30° DISABLES B2 CLOSE AND B3 OPEN WHEN B2 IS BETWEEN 20° AND 50° AND B3 IS OPEN BEYOND 30° 
RULE 6A - B3 TELE EXTEND DISABLES B3 TELE EXTEND WHEN B2 IS LESS THAN 50° AND T2 ROTATE IS OUTSIDE 200° OF ROTATION 	RULE 7A - T2 200° CCW DISABLES T2 CCW WHEN B2 IS OPEN BEYOND 20° AND T2 200° CCW LIMIT IS REACHED 	RULE 7B - T2 200° CW DISABLES T2 CW WHEN B2 IS OPEN BEYOND 20° AND T2 200° CW LIMIT IS REACHED 	
RULE 8A - T2 200°, B2 < 50°, B3 TELE EXT DISABLES B2 CLOSE AND B3 TELE EXTEND WHEN B2 IS OPEN LESS THAN 50°, B3 TELE IS EXTENDED, AND T2 200° CW AND CCW LIMITS ARE MET 	RULE 9 - PLATFORM TILT LIMIT DISABLES B2 OPEN, B3 CLOSE, AND B4 UP WHEN PLATFORM TILT SWITCH IS ACTIVE 	RULE 10 - B3 30° OPEN DISABLES B2 CLOSE, B3 OPEN, AND B4 DOWN WHEN B2 IS LESS THAN 20° AND B3 OPEN BEYOND 30° 	
RULE 11 - B3 70° OPEN DISABLES B2 CLOSE AND B3 OPEN WHEN B2 IS OPEN BEYOND 50° AND B3 IS OPEN BEYOND 70° 	RULE 12A - T1 CW LIMIT DISABLES T1 CW ROTATION WHEN LIMIT IS REACHED 	RULE 12B - T1 CCW LIMIT DISABLES T1 CCW ROTATION WHEN LIMIT IS REACHED 	RULE 14 - B2 OPEN DISABLES B2 OPEN WHEN B2 IS OPEN BEYOND 20° AND T2 200° CW AND CCW LIMITS ARE NOT MET 
RULE 12C - NO LEFT SIDE DEPLOYMENT T1 WILL NOT ROTATE CW PAST THE B1 STOW POSITION WHEN THE CTWT IS ON THE LEFT SIDE OF THE TRUCK 	RULE 12D - NO RIGHT SIDE DEPLOYMENT T1 WILL NOT ROTATE CCW PAST THE B1 STOW POSITION WHEN THE CTWT IS ON THE RIGHT SIDE OF THE TRUCK 	RULE 21 - T2 OUT DISABLED DISABLES T2 OUT WHEN B3 IS STOWED IN THE B3 REST 	
RULE 23A - BM LEVELING OUT DISABLES T2 OUT WHEN T2 ANGLE EXCEEDS 6° 	RULE 23B - BM LEVELING IN DISABLES T2 IN WHEN T2 ANGLE EXCEEDS 6° 	RULE 26A - BOOM 1 UP DISABLES B1 UP WHEN T2 ANGLE EXCEEDS 6° 	RULE 26B - BOOM 1 DOWN DISABLES B1 DOWN WHEN T2 ANGLE EXCEEDS 6° 

Operation

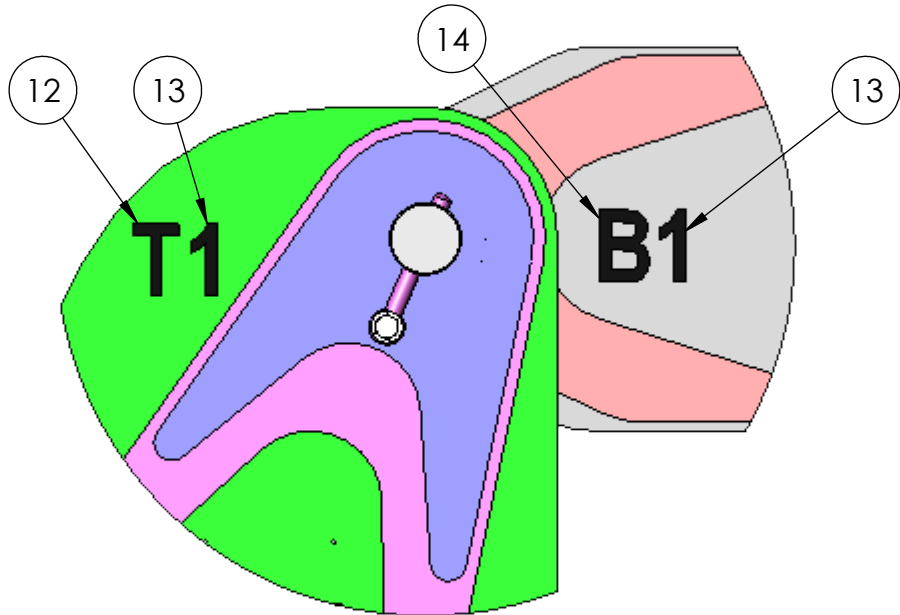
Operating rules when the walkway is installed.

A52 FLIGHT PLAN - WALKWAY			
RULE 3A - T2 360° CW DISABLES T2 CW ROTATION WHEN T2 CW LIMIT ANGLE IS REACHED 	RULE 3B - T2 360° CCW DISABLES T2 CCW ROTATION WHEN T2 CCW LIMIT ANGLE IS REACHED 	RULE 5A - WKWY TELE, T2 CCW DISABLES T2 CCW WHEN T2 IS ROTATED 50° CCW AND WKWY TELE IS EXTENDED 	RULE 5B - WKWY TELE, T2 CW DISABLES T2 CW WHEN T2 IS ROTATED 50° CW AND WKWY TELE IS EXTENDED 
RULE 6B - WKWY TELE EXTEND DISABLES WKWY TELE EXTEND WHEN B2 IS LESS THAN 50° AND T2 ROTATE IS OUTSIDE 55° CW OR CCW ROTATION 	RULE 7A - T2 200° CCW DISABLES T2 CCW WHEN B2 IS OPEN BEYOND 20° AND T2 200° CCW LIMIT IS REACHED 	RULE 7B - T2 200° CW DISABLES T2 CW WHEN B2 IS OPEN BEYOND 20° AND T2 200° CW LIMIT IS REACHED 	
RULE 8B - T2 200°, B2 < 50°, WKWY TELE EXT DISABLES B2 CLOSE AND WKWY TELE EXTEND WHEN B2 IS OPEN LESS THAN 50°, WKWY TELE IS EXTENDED, AND T2 55° CW AND CCW LIMITS ARE MET 	RULE 12A - T1 CW LIMIT DISABLES T1 CW ROTATION WHEN LIMIT IS REACHED 	RULE 12B - T1 CCW LIMIT DISABLES T1 CCW ROTATION WHEN LIMIT IS REACHED 	RULE 32 - B1 DOWN SHUTOFF DISABLES B1 DOWN WHEN WKWY REAR STOW SWITCH IS IN THE REAR STOW PAD 
RULE 23A - BM LEVELING OUT DISABLES T2 OUT WHEN T2 ANGLE EXCEEDS 6° 	RULE 23B - BM LEVELING IN DISABLES T2 IN WHEN T2 ANGLE EXCEEDS 6° 	RULE 26A - BOOM 1 UP DISABLES B1 UP WHEN T2 ANGLE EXCEEDS 6° 	RULE 26B - BOOM 1 DOWN DISABLES B1 DOWN WHEN T2 ANGLE EXCEEDS 6° 
RULE 33A - WKWY UP ANGLE STOP DISABLES WKWY UP AND B2 OPEN WHEN WKWY ANGLE IS 10° ABOVE HORIZONTAL 	RULE 33B - WKWY DOWN ANGLE STOP DISABLES WKWY DOWN AND B2 CLOSE WHEN WKWY ANGLE IS 10° BELOW HORIZONTAL 	RULE 34 - B2 OPEN DISABLES B2 OPEN WHEN B2 IS OPEN BEYOND 20° AND T2 200° CW AND CCW LIMITS ARE NOT MET 	

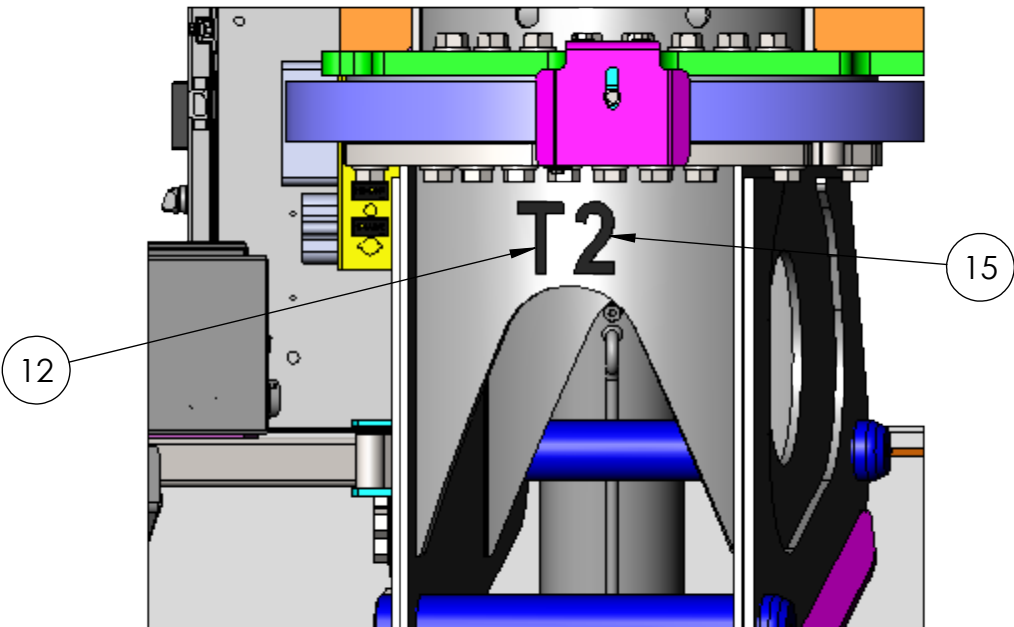


TURRET 1/BOOM 1/TURRET 2

11 2X
MIRROR LOCATION
ON OPPOSITE SIDE



DETAIL B
SCALE 1 : 8




SECTION C-C
SCALE 1 : 8

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REV	ECO	BY	DATE	DESCRIPTION
REVISIONS				
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON: TWO PLACE DECIMALS ± .03 THREE PLACE DECIMALS ± .005 HOLES $\frac{000}{-000}$ FRACTIONAL ± 1/32 WELDMENTS ± 1/16 ANGLES ± 1/2° REMOVE ALL BURRS BREAK ALL SHARP CORNERS MATERIAL: SEE NOTE FINISH: N/A DO NOT SCALE DRAWING				

DRAWN	NAME	DATE
CHECKED	NAK	03/02/21
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

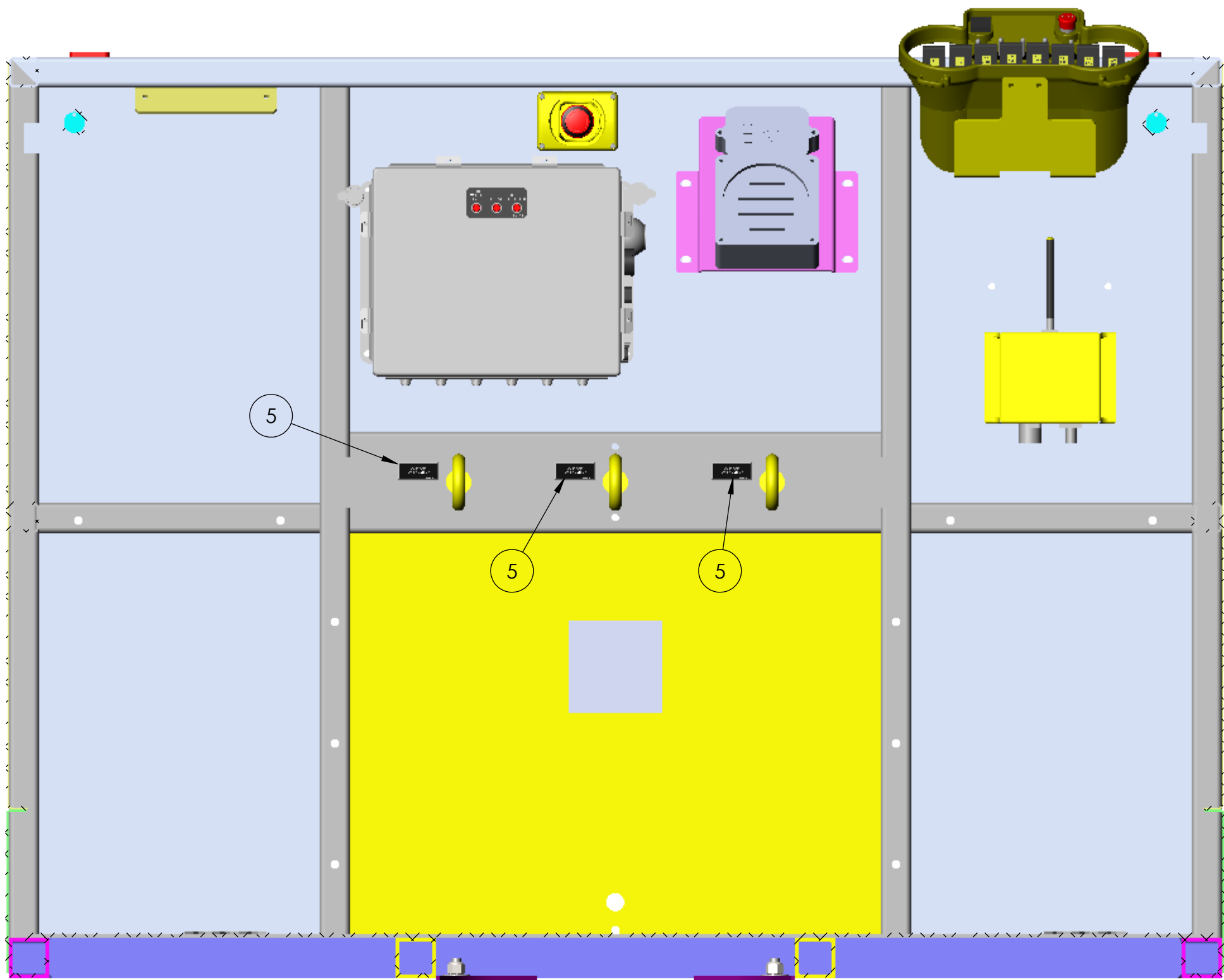


4303 WEST 1ST STREET - DULUTH, MN 55807

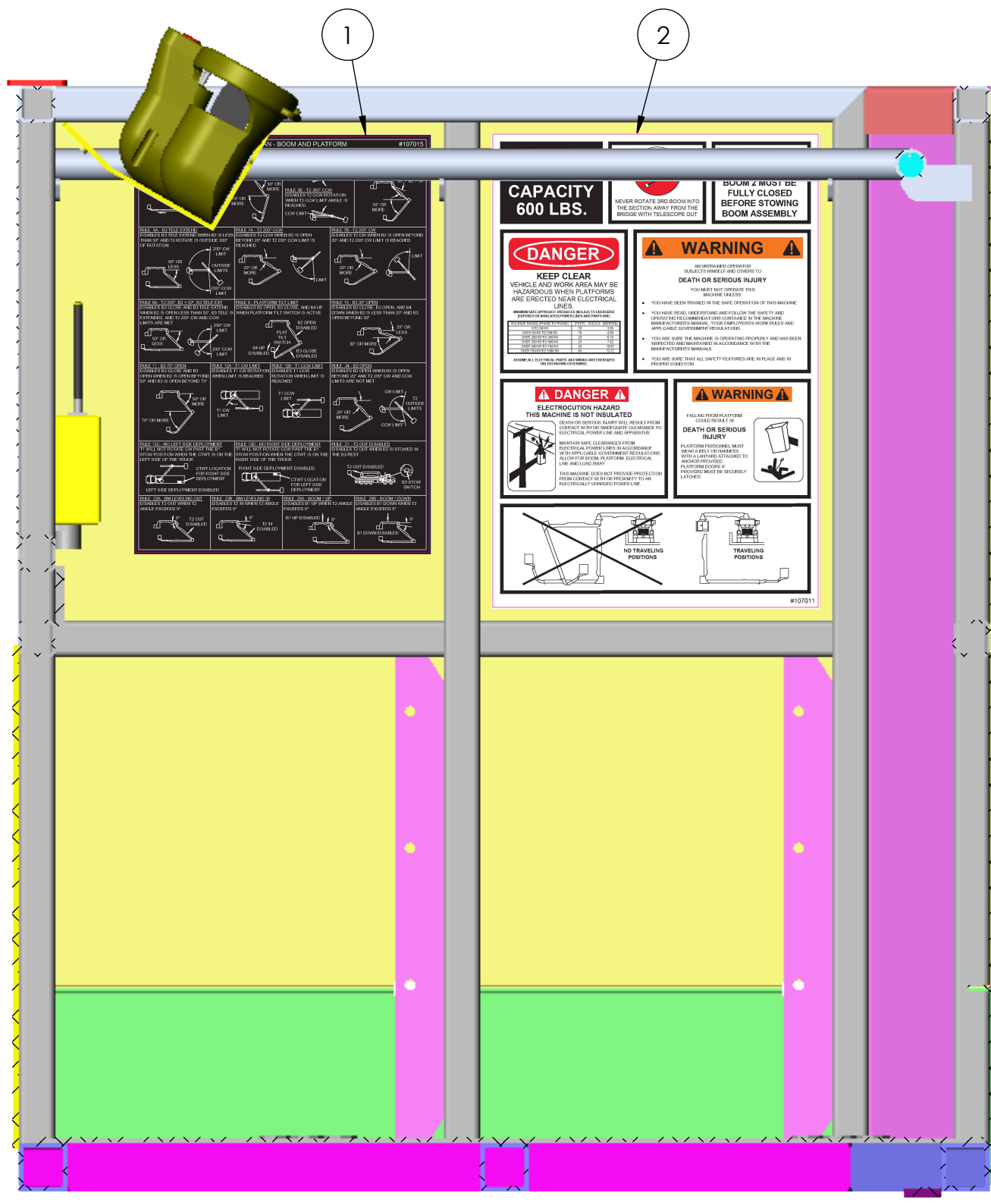
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SIZE	DWG. NO.	REV
C	107031	

SCALE: 1:32 WT: SHEET 6 OF 7

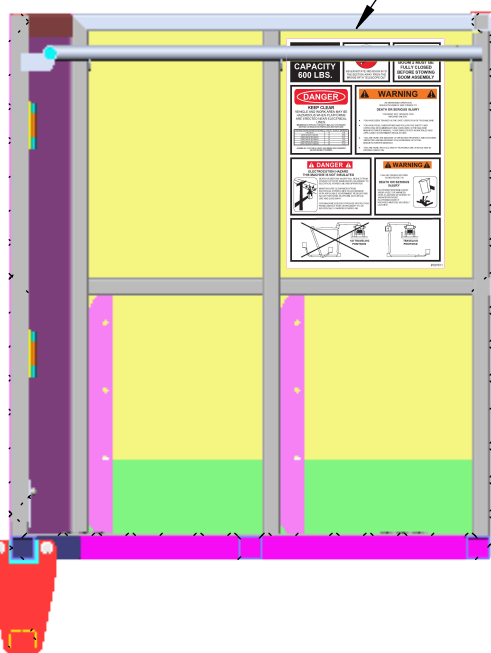


SECTION B-B
SCALE 1 : 6

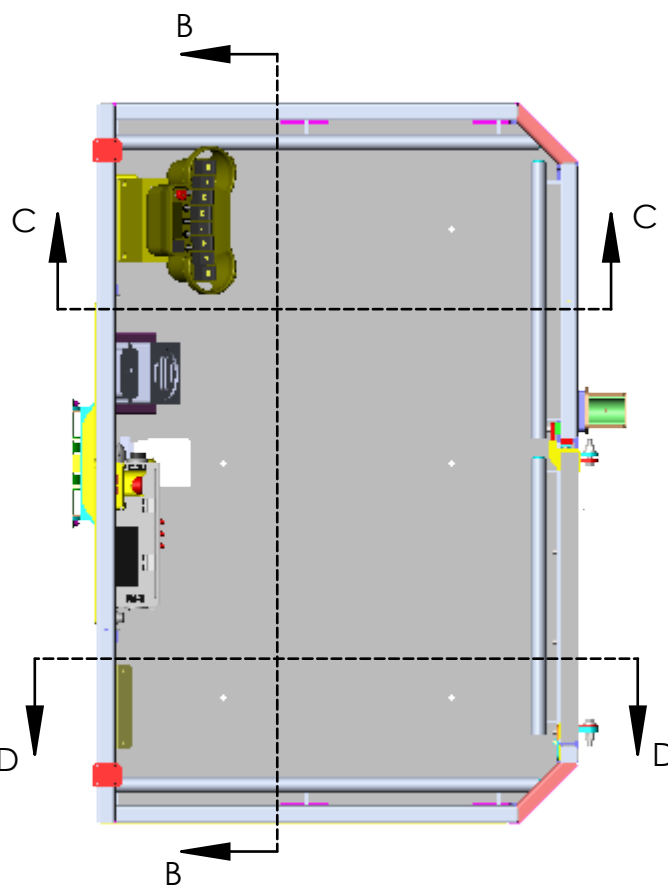


SECTION C-C
SCALE 1 : 6

ALTERNATE LOCATION FOR DECAL
107011 WHEN SEATS ARE INSTALLED



SECTION D-D
SCALE 1 : 16



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REV	ECO	BY	DATE	DESCRIPTION
REVISIONS				

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON:
TWO PLACE DECIMALS ± .03
THREE PLACE DECIMALS ± .005
HOLES — .000
FRACTIONAL ± 1/32
WELDMENTS ± 1/16
ANGLES ± 1/2
REMOVE ALL BURRS
BREAK ALL SHARP CORNERS
MATERIAL **SEE NOTE**
FINISH **N/A**
DO NOT SCALE DRAWING

NAME	DATE
DRAWN	NAK
CHECKED	
ENG APPR.	
MFG APPR.	
Q.A.	
COMMENTS:	

ASPEN AERIALS
4303 WEST 1ST STREET - DULUTH, MN 55807
TITLE: **A52 DECAL LAYOUT
B4 AND PLATFORM**
SIZE DWG. NO. REV
C **107034**
SCALE: 1:96 WT: SHEET 2 OF 2

A

REV	ECO	BY	DATE

 ASPEN AERIALS 4303 WEST 1ST STREET - DULUTH, MN 55807		
TITLE: A52 DECAL LAYOUT WALKWAY		
SIZE C	DWG. NO. 107037	REV
SCALE: 1:48 WT:		SHEET 1 OF 1

