



# 24' Dura-Lok Plank and Support Manual

Owner's Manual

**PNEG-1824** 

Version: 3.0

Date: 10-15-20





## **Contents**

Chapter 1	Introduction	4
Chapter 2	Safety	5
	Safety Guidelines  Cautionary Symbols Definitions  Safety Cautions  Safety Sign-Off Sheet	6 
Chanter 3	Decals	
•	Monorail Installation	
Chapter 4		
	Fan Placement Diagram	
	Tie Bar Detail	
	Tie Strap Detail	
	Assembling Legs to Rail	
	Monorail Splice Detail	
	Outer Perimeter Rail Details	19
Chapter 5	Flooring - Planks	20
	Flashing Installation	20
	Center Well Assembly Details	22
	Intermediate Well Assembly Details	23
Chapter 6	Layouts	24
	24'-17" Rail Spacing Layout	24
	24'-17" Monorail Spacing Layout	
	24'-18" Rail Spacing Layout	26
	24'-18" Monorail Spacing Layout	27
	24'-20" Rail Spacing Layout	
	24'-20" Monorail Spacing Layout	
	24'-22" Rail Spacing Layout	
	24'-22" Monorail Spacing Layout	
	24'-26" Rail Spacing Layout	
	24'-26" Monorail Spacing Layout	
	24' Floor Bundle Layout	
	24' Plank Layout	35
Chapter 7	Warranty	37

#### 1. Introduction

READ THIS MANUAL carefully to learn how to properly use and install equipment. Failure to do so could result in personal injury or equipment damage.

INSPECT the shipment immediately upon arrival. The customer is responsible for ensuring that all quantities are correct. The customer should report and note any damage or shortage on the bill of lading to justify their claim to the transport company.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your equipment and should be easily accessible when needed.

This warranty provides you the assurance that the company will back its products when defects appear within the warranty period. In some circumstances, the company also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the factory specifications, the warranty will become void and field improvements may be denied.

## **Safety Guidelines**

Safety guidelines are general-to-specific safety rules that must be followed at all times. This manual is written to help you understand safe operating procedures and problems that can be encountered by the operator and other personnel when using this equipment. Read and save these instructions.

As owner or operator, you are responsible for understanding the requirements, hazards, and precautions that exist and to inform others as required. Unqualified persons must stay out of the work area at all times.

Alterations must not be made to the equipment. Alterations can produce dangerous situations resulting in SERIOUS INJURY or DEATH.

This equipment must be installed in accordance with the current installation codes and applicable regulations, which must be carefully followed in all cases. Authorities having jurisdiction must be consulted before installations are made.

When necessary, you must consider the installation location relative to electrical, fuel and water utilities.

Personnel operating or working around equipment must read this manual. This manual must be delivered with equipment to its owner. Failure to read this manual and its safety instructions is a misuse of the equipment.

ST-0001-4

## **Cautionary Symbols Definitions**

Cautionary symbols appear in this manual and on product decals. The symbols alert the user of potential safety hazards, prohibited activities and mandatory actions. To help you recognize this information, we use the symbols that are defined below.



This symbol indicates an imminently hazardous situation which, if not avoided, will result in serious injury or death.



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in serious injury or death.** 



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in minor or moderate injury.** 



This symbol is used to address practices not related to personal injury.



This symbol indicates a general hazard.



This symbol indicates a prohibited activity.



This symbol indicates a mandatory action.

ST-0005-2

## **Safety Cautions**

#### **Use Personal Protective Equipment**

Use appropriate personal protective equipment:

Eye Protection



Respiratory Protection



Foot Protection



Hearing Protection



Head Protection



Fall Protection



Hand Protection



- Wear clothing appropriate to the job.
- Remove all jewelry.
- Tie long hair up and back.

ST-0004-1

#### **Follow Safety Instructions**

- Carefully read all safety messages in this manual and safety signs on your machine. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.
- Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.
- If you do not understand any part of this manual or need assistance, contact your dealer.



ST-0002-1

#### **Maintain Equipment and Work Area**

- Understand service procedures before doing work. Keep area clean and dry.
- Never service equipment while it is operating. Keep hands, feet, and clothing away from moving parts.
- Keep your equipment in proper working condition. Replace worn or broken parts immediately.



ST-0003-1

#### **Prevent Roof Damage Due to Vacuum Pressure**

- Roof damage can result from excessive vacuum or internal pressure from fans or other air moving systems. The manufacturer does not warrant this type of roof damage.
- Adequate ventilation or "makeup air" devices must be provided for all powered air handling systems.
- The manufacturer does not recommend the use of downward flow systems (suction).
- Severe roof damage can result from any blockage of air passages.
- Operating fans during high humidity or cold weather conditions can cause air exhaust or intake ports to freeze.



ST-0028-2

#### **Sharp Edge Hazard**

- This product has sharp edges, which can cause serious injury.
- To avoid injury, handle sharp edges with caution and always use proper protective clothing and equipment.



ST-0036-2

## **Safety Sign-Off Sheet**

Below is a sign-off sheet that can be used to verify that all personnel have read and understood the safety instructions. This sign-off sheet is provided for your convenience and personal record keeping.

Date	Employee Name	Supervisor Name

ST-0007

#### 3. Decals

The safety decals on your equipment are safety indicators which must be carefully read and understood by all personnel involved in the installation, operation, service and maintenance of the equipment.

To replace a damaged of missing decal, contact us to receive a free replacement.

#### **GSI Decals**

1004 E. Illinois St. Assumption, IL. 62510 Phone: 1-217-226-4421

Location	Decal #	Decals	Description
Located next to aeration system.	DC-969	CAUTION	Caution Vacuum Pressure
		Excessive vacuum (or pressure) may damage roof. Use positive aeration system. Make sure all roof vents are open and unobstructed. Start roof fans when supply fans are started. Do not operate when conditions exist that may cause roof vent icing.	

Location	Decal #	Decals	Description
On bin door covers	DC-GBC-1A	Rotating flighting could kill or dismember.  Reep clear of all augers. DO NOT ENTER this bin!  If you must enter the bin:  1. Shut off and lock out all power. 2. Use a safety harness and safety line. 3. Station another person outside the bin. 4. Avoid the center of the bin. 5. Wear proper breathing equipment or respirator.  Failure to heed these warnings could result in serious injury or death.	Warning Keep Clear of Augers
On bin door covers	DC-GBC-2A	UNLOADING INSTRUCTIONS:  1. Use CENTER FLOOR OUTLET ONLY until NO grain remains above this outlet.  2. Side floor outlets to be used ONLY when above condition is satisfied.  3. Lock all side floor outlets to avoid accidental premature use.  4. See manufacturers instructions for proper use of factory supplied sidedraw (wall) discharge systems.  Failure to heed these warnings could result in serious injury, death, structural damage or collapse of tank.  BC-GBC-2A	Warning Unload Instructions

## **Fan Placement Diagram**

For uniform air flow, place the fans in relation to the unloading tube as shown in *Figure 4A*. Floor planks should be perpendicular to the unloading tube.

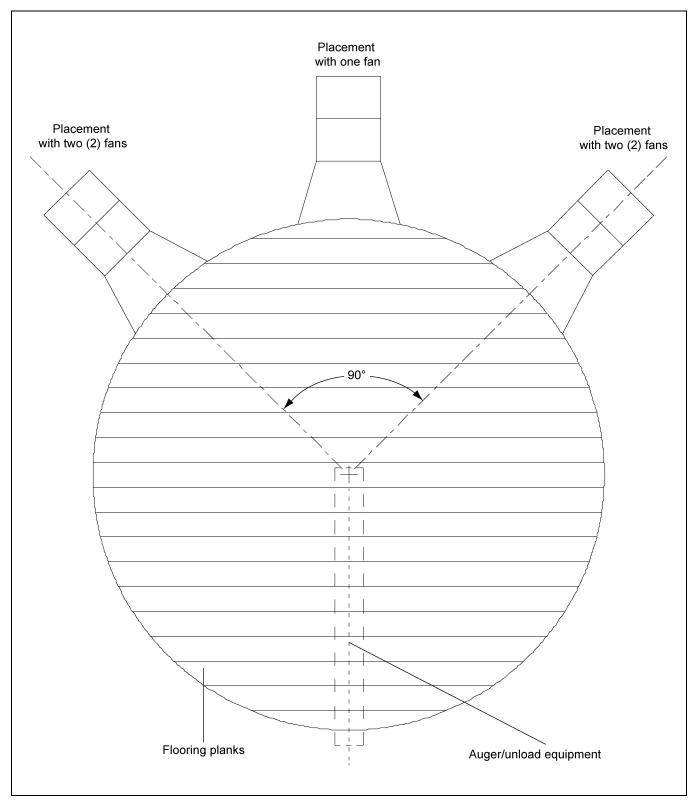


Figure 4A

#### **Tie Bar Detail**

- 1. Locate the tie bars between the rails. (Spaced evenly throughout the system.)
  - **NOTE:** Tie bars are to be placed at the end of monorail, at each splice and in the middle of the rail if it is over 16' long. (Not necessarily evenly spaced.) Rail spacing details on Pages 24-32, detail tie bar placements in each layout.
- 2. A single #10 x 5/8" self-drilling screws may be used to fasten the tie bars at each end to the rails as necessary. (See Figure 4B.)

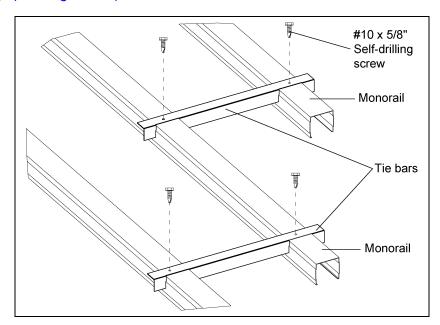


Figure 4B Tie Bar Detail

3. Tie bars should overlap and connect each rail to the next rail. Tie bars should be located along each side of a rail splice and around the perimeter of the bin, no more than 6" from the end of the rail. (See Figure 4C.)

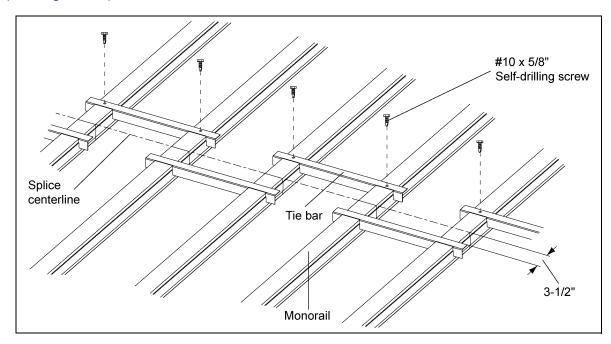


Figure 4C Tie Bar Dimension Detail

#### **Tie Strap Detail**

- 1. Tie straps should be used when a tie bar cannot be used to connect rails together due to special spacing of monorail. Tie strap should be connected to all three rails using self-drilling screws. (See Figure 4D.)
- 2. Tie straps are to be located in the same places as a tie bar would be used.

**NOTE:** Some tie straps will be used to support center well and intermediate well assembly. (See Figure 5D on Page 22 and Figure 5E on Page 23.)

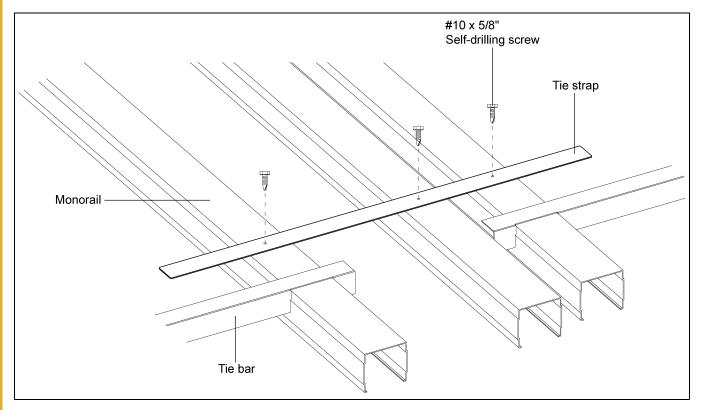


Figure 4D Strap Detail

## **Assembling Legs to Rail**

- 1. Place two corners of the monorail leg into the rails as shown.
- 2. By twisting the leg it will spread the rail enough to get the other corners inside.
- 3. The leg can then be pushed down into the rail until the tabs lock it into place. (See Figure 4E.)

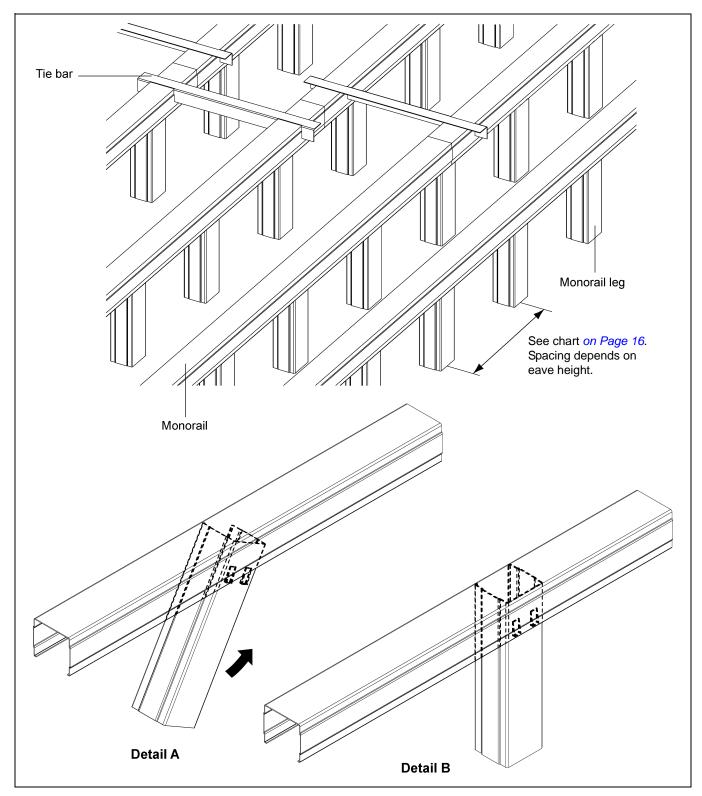


Figure 4E Assembly Leg Rail

#### 4. Monorail Installation

## Monorail "Rail and Leg Spacing"/"Full Floor Leg Quantity" for 24' Bin Diameter

4.00" Ring	2.66" Ring	Eave Height (ft.)	Rail Spacing	Reference Page	Leg Spacing	Leg Qty
3	4	11	26	See Page 32	28	126
4	6	16	26	See Page 32	25	141
5	8	22	26	See Page 32	22	160
7	10	27	26	See Page 32	20	175
9	12	33	22	See Page 30	21	186
10	14	38	22	See Page 30	19	206
11	16	43	22	See Page 30	18	217
13	18	48	20	See Page 28	18	234
14	20	54	20	See Page 28	17	247
16	22	59	18	See Page 26	17	271
17	24	64	18	See Page 26	17	271
19	26	70	18	See Page 26	16	288
20	28	75	17	See Page 24	16	292

## **Monorail Splice Detail**

1. Insert the monorail leg (2) vertically at the joint between the ends of the monorails (1), centering the leg (2) on the splice as shown in *Figure 4F*.

**NOTE**: Lock the monorail leg (2) securely into the monorails (1) using the locking tabs (5).

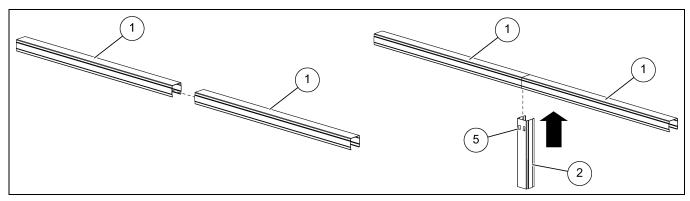


Figure 4F Installing the Monorail Leg

Ref#	Part #	Description
1	FL-403-1	Rails for Monorail Per Foot
2*	FL-403-X	Monorail Leg

Ref #	Description	
5	Leg Locking Tabs	

2. Use the four self-tapping screws (3) to secure the monorails (1) to the monorail leg (2) as shown in *Figure 4G*. (**NOTE**: See the orientation of the monorail leg (2) in *Figure 4G*.)

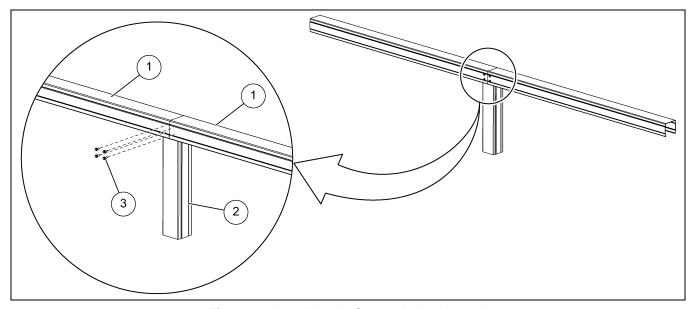


Figure 4G Installing the Screws in the Monorail

Ref #	Part #	Description
1	FL-403-1	Rails for Monorail Per Foot
2*	FL-403-X	Monorail Leg
3	S-280	Screw, SDS #10-16 x 5/8" HWH ZN

<sup>\*</sup> NOTE: "X" denotes the monorail leg part number extension.

## **Monorail Splice Detail (Continued)**

3. Use the four self-tapping screws (3) and the monorail splice plate (4) on the other side of the monorail joint as shown in *Figure 4H*. (**NOTE**: See the orientation of the monorail leg (2) in *Figure 4H*.)

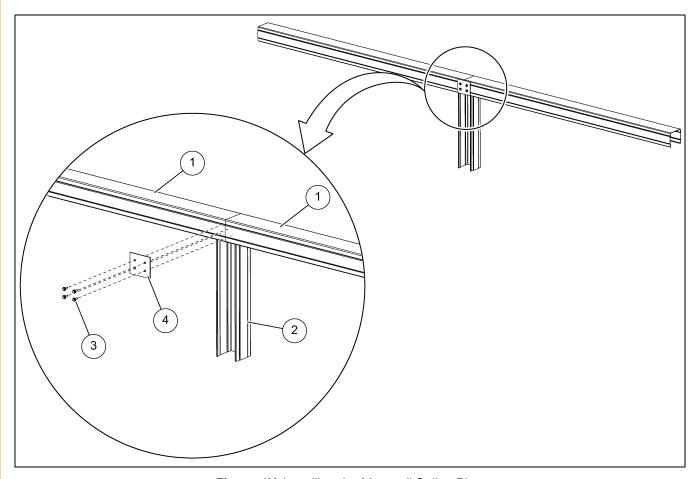


Figure 4H Installing the Monorail Splice Plate

Ref #	Part #	Description
1	FL-403-1	Rails for Monorail Per Foot
2*	FL-403-X	Monorail Leg
3	S-280	Screw, SDS #10-16 x 5/8" HWH ZN
4	FL-7415	Monorail Splice Plate

<sup>\*</sup> NOTE: "X" denotes the monorail leg part number extension.

#### **Outer Perimeter Rail Details**

3' Sections of monorail should be placed around the perimeter of the bin. Monorail legs for perimeter rails should be spaced 16" apart on center. (See Figure 4I.)

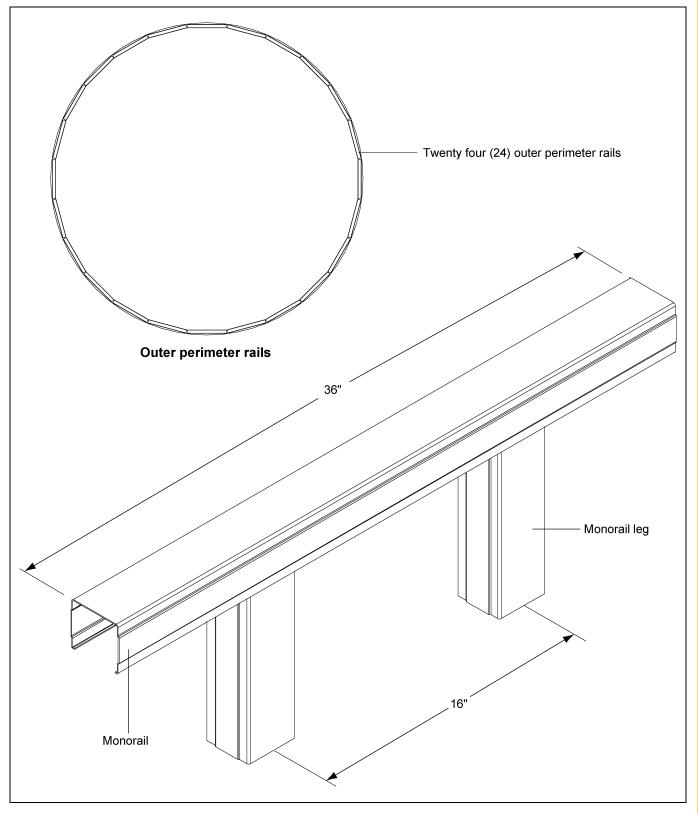


Figure 4I

## **Flashing Installation**

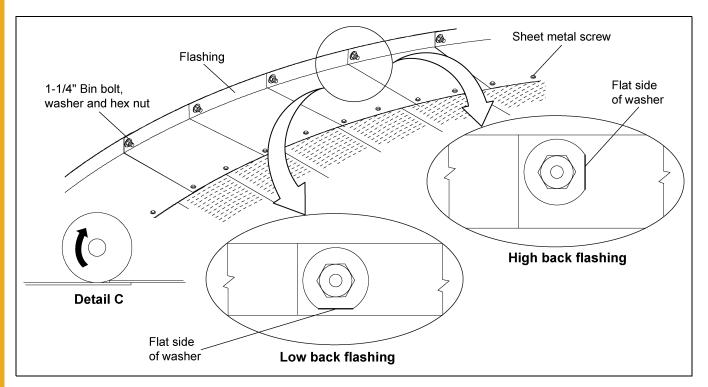


Figure 5A

#### Formed Flashing Installation

If bin sweep auger is to be used, overlap flashing such that rotation (usually clockwise) of the sweep will climb up on the next flashing section. (See detail C in *Figure 5A*.) This will prevent the rotating/slipping outer wheel of the sweep from catching on the flashing edges.

After the floor is in place, lay the flashing pieces on top of the floor place over the 1-1/4" bin bolts. See Figure 5B and Figure 5C on Page 21 to determine the correct sequence for placing the nuts and washers. Finger tighten the nuts. While holding flashing flat, fasten the flashing to the floor with sheet metal screws. Now tighten flashing nuts.

# Flashing Installation (Continued)

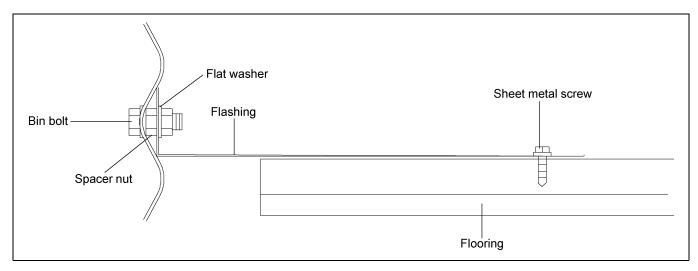


Figure 5B 2.66" Corrugation

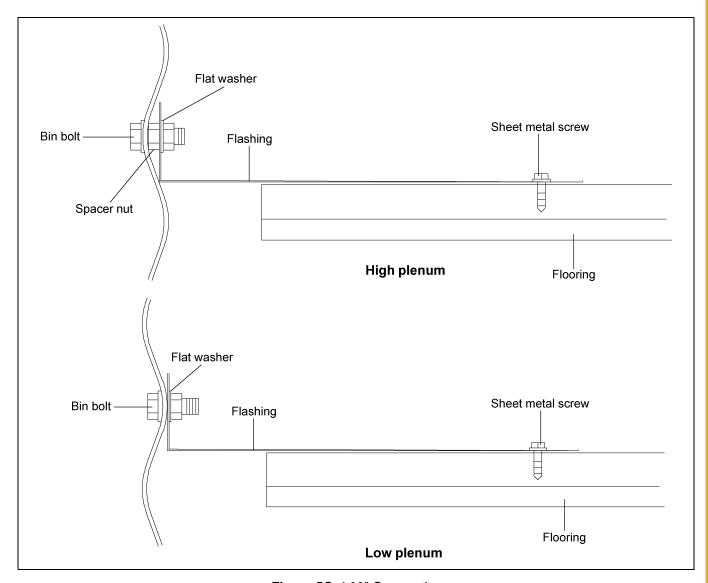


Figure 5C 4.00" Corrugation

## **Center Well Assembly Details**

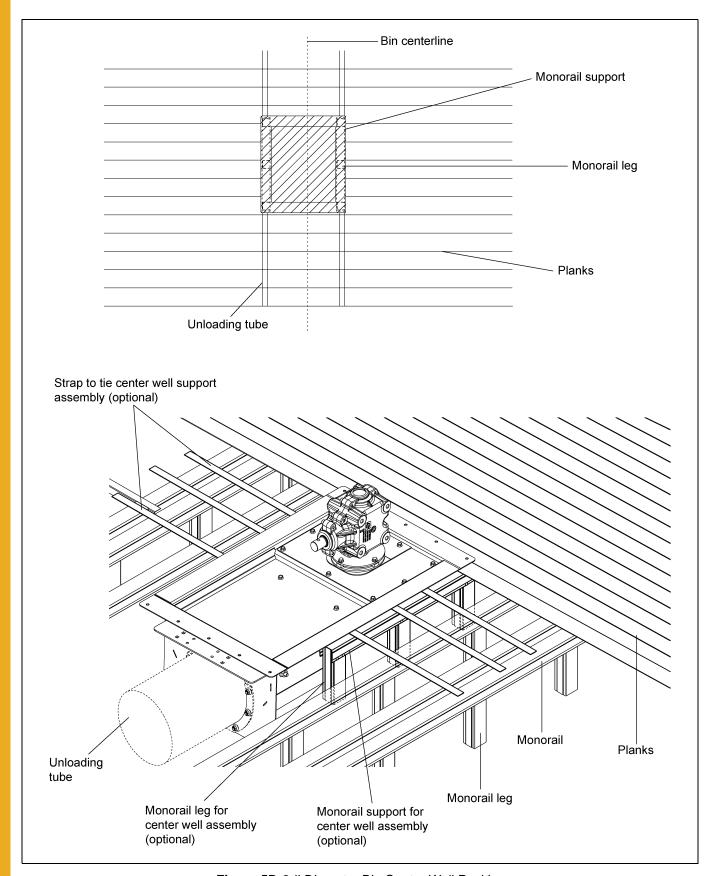


Figure 5D 24' Diameter Bin Center Well Position

## **Intermediate Well Assembly Details**

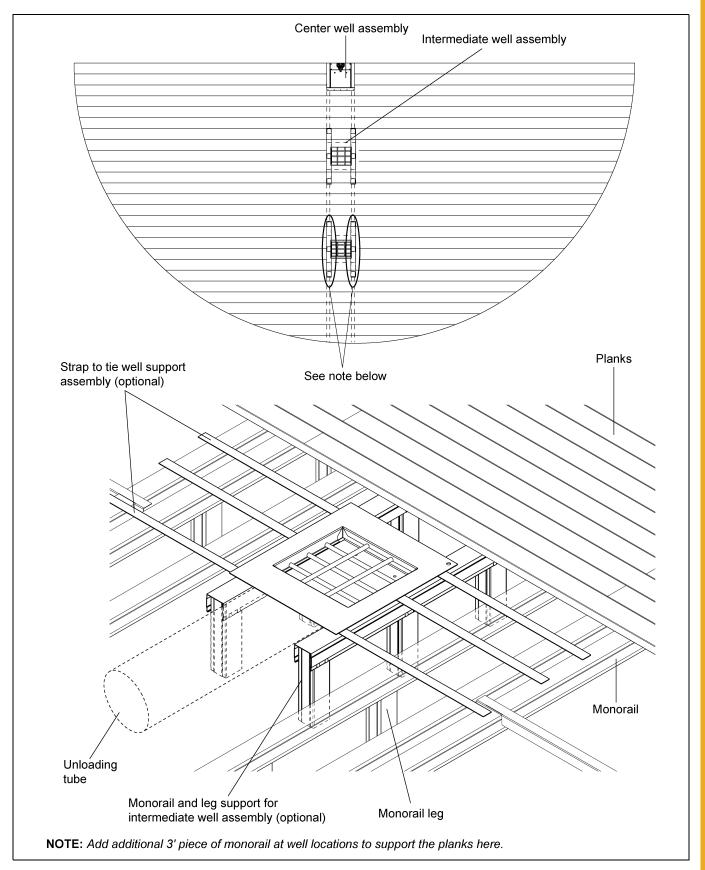


Figure 5E 24' Diameter Bin Intermediate Well Position

# 24'-17" Rail Spacing Layout

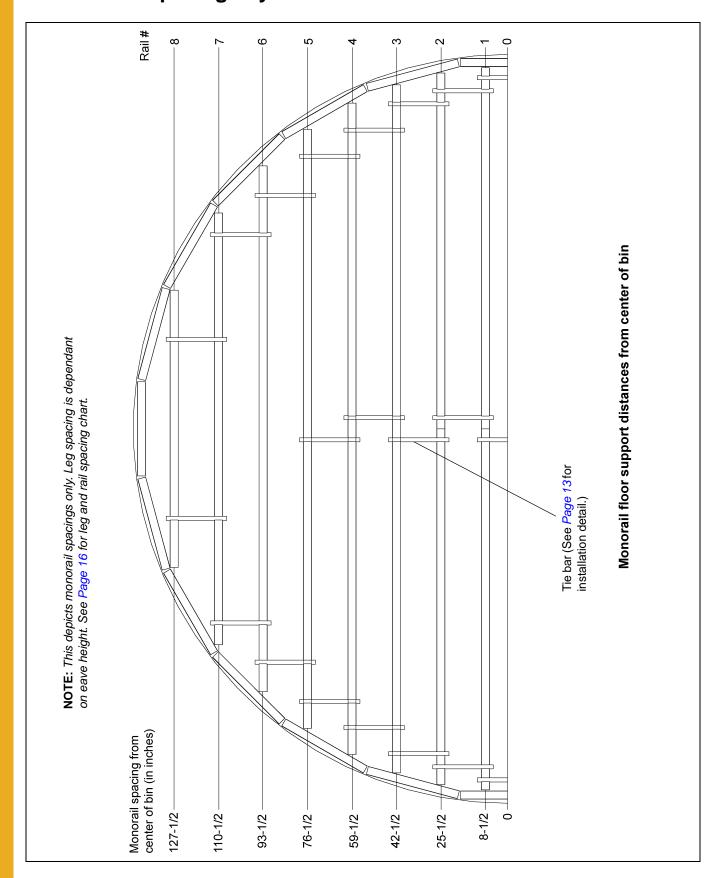
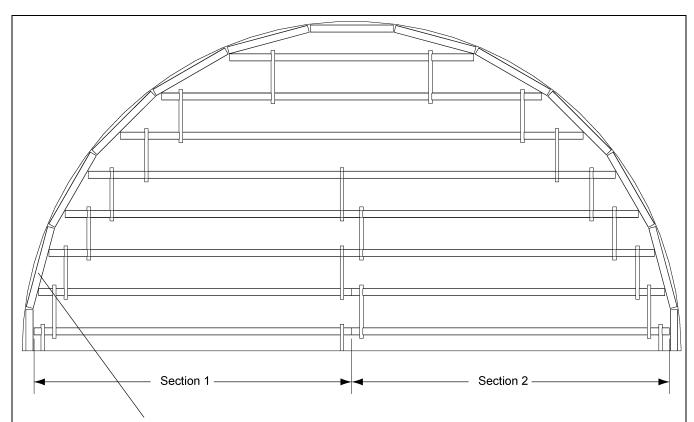


Figure 6A 24' Diameter 17" Rail Spacing

# 24'-17" Monorail Spacing Layout



**NOTE:** Twenty four (24) total outer perimeter 3' monorail pieces. See Page 15 for leg support details.

Part #	Description	Qty
FL-404-17	17" Monorail Tie Bar	50
S-280	#10-16 x 5/8" Zinc Self-Drilling Screw	220
FL-7411	Monorail Strap 1-1/2" x 30" x 0.061"	30

#### **Bill of Materials**

Part #	Length	Qty
A-21.92MONO	263	2
A-20.75MONO	249	2
A-19.08MONO	229	2
A-16.75MONO	201	2
A-13.75MONO	165	2
A-11.5MONO	138	4
A-11.3MONO	136	4
A-8.8MONO	106	2
A-3MONO	36	34

24' Diameter 17" Spacing

Measurement in Inches				
Rail #	Section 1	Section 2		
1	138	138		
2	136	136		
3	263	0		
4	249	0		
5	229	0		
6	201	0		
7	165	0		
8	106	0		

7.3 m Diameter 43.18 cm Spacing

Measurement in Centimeters		
Rail #	Section 1	Section 2
1	350.52	350.52
2	345.44	345.44
3	668.02	0
4	632.46	0
5	581.66	0
6	510.54	0
7	419.1	0
8	269.24	0

Figure 6B 24' Diameter Bin with 17" Monorail Spacing

# 24'-18" Rail Spacing Layout

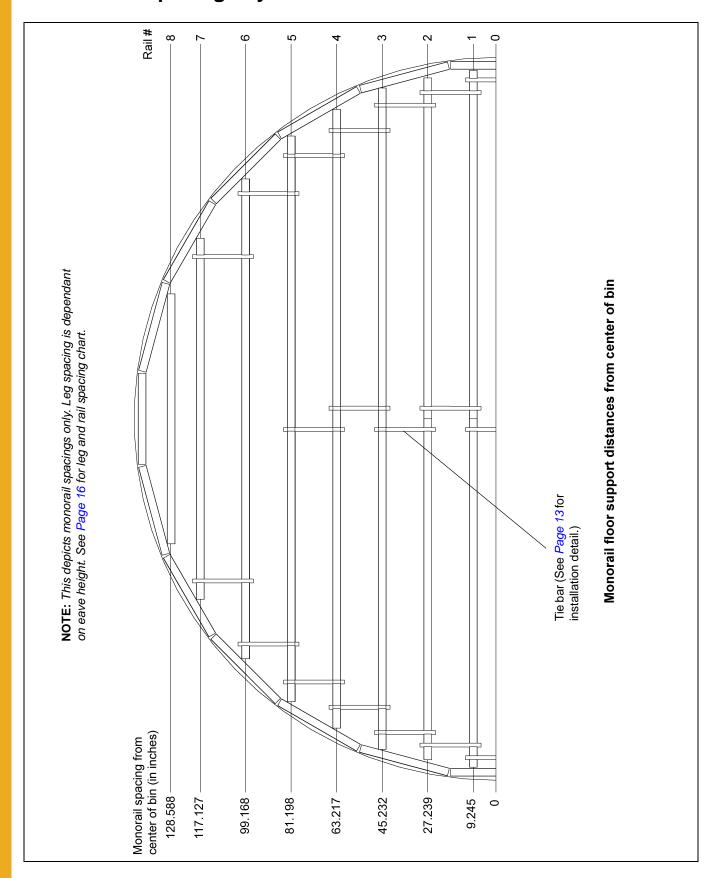
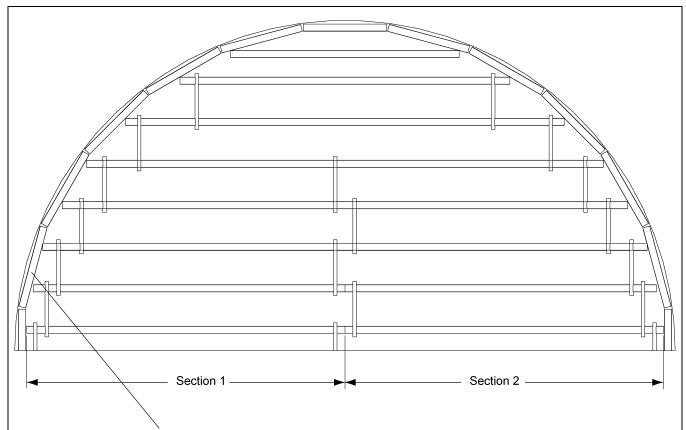


Figure 6C 24' Diameter 18" Rail Spacing

# 24'-18" Monorail Spacing Layout



**NOTE:** Twenty four (24) total outer perimeter 3' monorail pieces. See Page 15 for leg support details.

Part #	Description	Qty
FL-404-18	18" Monorail Tie Bar	50
S-280	#10-16 x 5/8" Zinc Self-Drilling Screw	220
FL-7411	Monorail Strap 1-1/2" x 30" x 0.061"	30

#### **Bill of Materials**

Part #	Length	Qty
A-21.83MONO	262	2
A-20.42MONO	245	2
A-18.67MONO	224	2
A-15.83MONO	190	2
A-11.92MONO	143	2
A-11.5MONO	138	4
A-11.25MONO	135	4
A-8.25MONO	99	2
A-3MONO	36	34

24' Diameter 18" Spacing

Measurement in Inches		
Rail #	Section 1	Section 2
1	138	138
2	135	135
3	262	0
4	245	0
5	224	0
6	190	0
7	143	0
8	99	0

7.3 m Diameter 45.72 cm Spacing

Measurement in Centimeters		
Rail #	Section 1	Section 2
1	350.52	350.52
2	342.9	342.9
3	665.48	0
4	622.3	0
5	568.96	0
6	482.6	0
7	363.22	0
8	251.46	0

Figure 6D 24' Diameter Bin with 18" Monorail Spacing

# 24'-20" Rail Spacing Layout

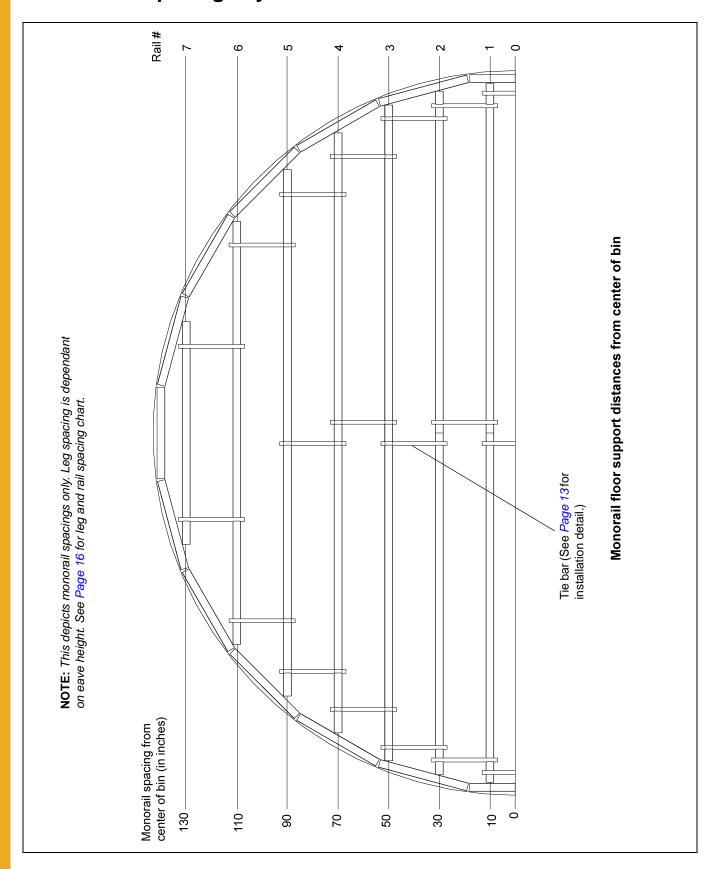
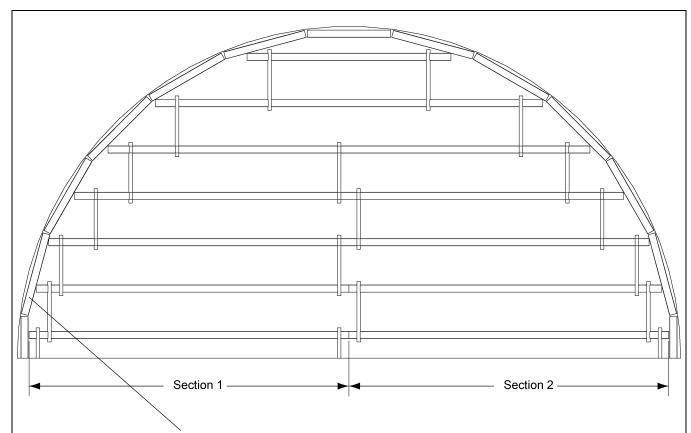


Figure 6E 24' Diameter 20" Rail Spacing

# 24'-20" Monorail Spacing Layout



**NOTE:** Twenty four (24) total outer perimeter 3' monorail pieces. See Page 15 for leg support details.

Part #	Description	Qty
FL-404-1	20" Monorail Tie Bar	40
S-280	#10-16 x 5/8" Zinc Self-Drilling Screw	200
FL-7411	Monorail Strap 1-1/2" x 30" x 0.061"	30

#### **Bill of Materials**

Part #	Length	Qty
A-21.58MONO	259	2
A-19.75MONO	237	2
A-17.3MONO	208	2
A-13.91MONO	167	2
A-11.5MONO	138	4
A-11.25MONO	135	4
A-7.33MONO	88	2
A-3MONO	36	34

24' Diameter 20" Spacing

Measurement in Inches		
Rail #	Section 1	Section 2
1	138	138
2	135	135
3	259	0
4	237	0
5	208	0
6	167	0
7	88	0

7.3 m Diameter 50.8 cm Spacing

Measurement in Centimeters		
Rail #	Section 1	Section 2
1	350.52	350.52
2	342.9	342.9
3	657.86	0
4	601.98	0
5	528.32	0
6	424.18	0
7	223.52	0

Figure 6F 24' Diameter Bin with 20" Monorail Spacing

# 24'-22" Rail Spacing Layout

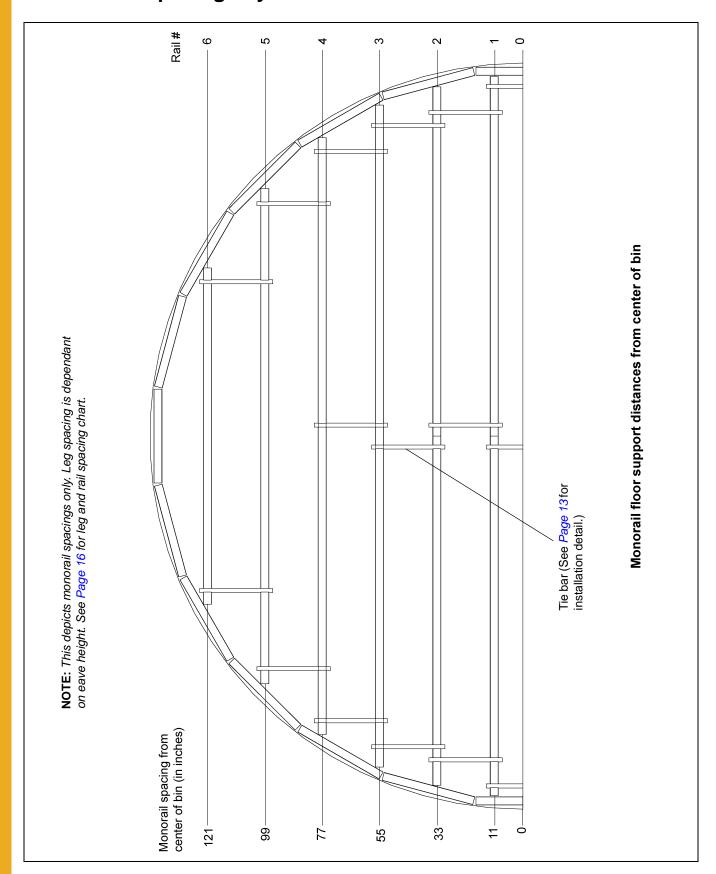
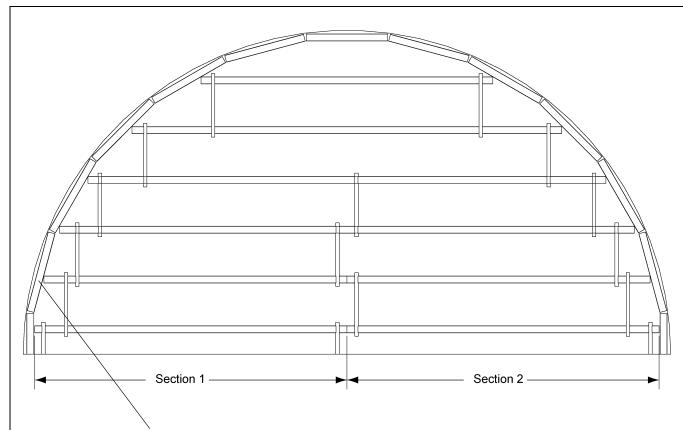


Figure 6G 24' Diameter 22" Rail Spacing

# 24'-22" Monorail Spacing Layout



**NOTE:** Twenty four (24) total outer perimeter 3' monorail pieces. See Page 15 for leg support details.

Part #	Description	Qty
FL-404-22	22" Monorail Tie Bar	30
S-280	#10-16 x 5/8" Zinc Self-Drilling Screw	180
FL-7411	Monorail Strap 1-1/2" x 30" x 0.061"	30

#### **Bill of Materials**

Part #	Length	Qty
A-21.16MONO	254	2
A-19.08MONO	229	2
A-15.83MONO	190	2
A-11.5MONO	138	4
A-11.17MONO	134	4
A-10.75MONO	129	2
A-3MONO	36	34

24' Diameter 22" Spacing

Measurement in Inches		
Rail #	Section 1	Section 2
1	138	138
2	134	134
3	254	0
4	229	0
5	190	0
6	129	0

7.3 m Diameter 55.88 cm Spacing

Measurement in Centimeters		
Rail #	Section 1	Section 2
1	350.52	350.52
2	340.36	340.36
3	645.16	0
4	581.66	0
5	482.6	0
6	327.66	0

Figure 6H 24' Diameter Bin with 22" Monorail Spacing

# 24'-26" Rail Spacing Layout

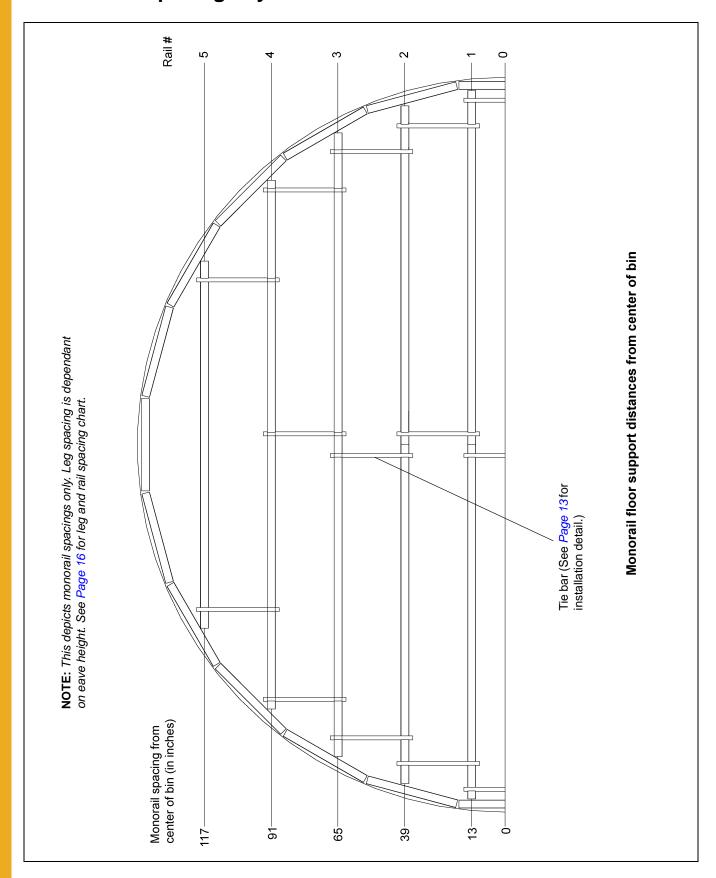
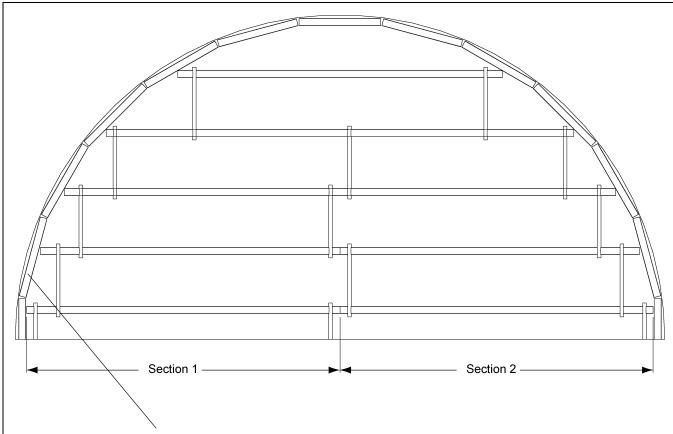


Figure 6I 24' Diameter 26" Rail Spacing

# 24'-26" Monorail Spacing Layout



**NOTE:** Twenty four (24) total outer perimeter 3' monorail pieces. See Page 15 for leg support details.

Part #	Description	Qty
FL-404-26	26" Monorail Tie Bar	30
S-280	#10-16 x 5/8" Zinc Self-Drilling Screw	180
FL-7411	Monorail Strap 1-1/2" x 30" x 0.061"	30

#### **Bill of Materials**

Part #	Length	Qty
A-21.75MONO	261	2
A-20.2MONO	242	2
A-17MONO	204	2
A-11.5MONO	138	2
A-11.3MONO	136	4
A-3MONO	36	34

24' Diameter 26" Spacing

Measurement in Inches		
Section 1 Section		
138	138	
132	132	
243	0	
206	0	
143	0	
	Section 1  138  132  243  206	

7.3 m Diameter 66.04 cm Spacing

Measurement in Centimeters		
Rail #	Section 1	Section 2
1	350.52	350.52
2	335.28	335.28
3	617.22	0
4	523.24	0
5	363.22	0

Figure 6J 24' Diameter Bin with 26" Monorail Spacing

# 24' Floor Bundle Layout

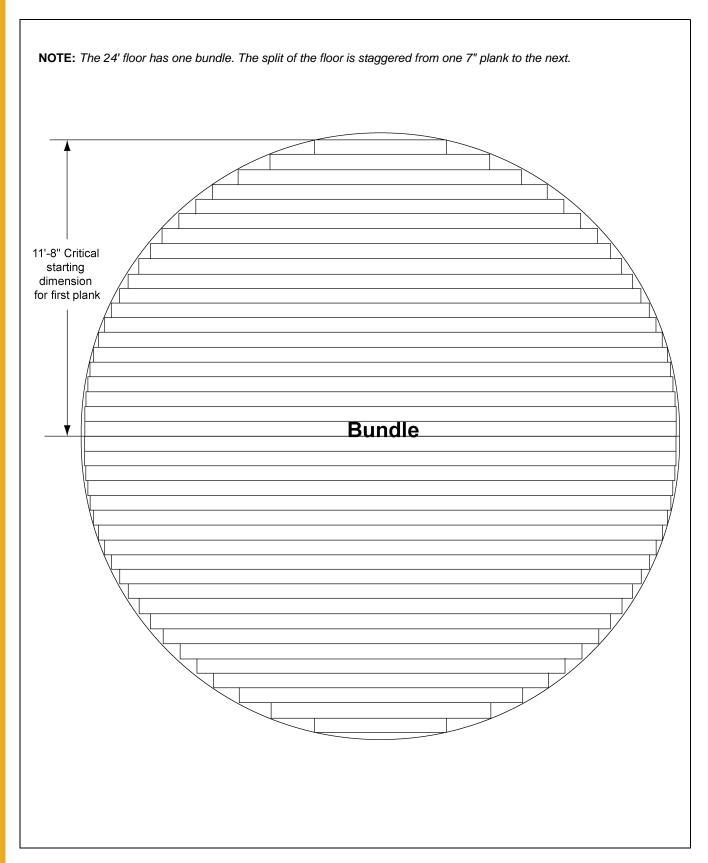


Figure 6K 24' Plank Layout Bundle

# 24' Plank Layout

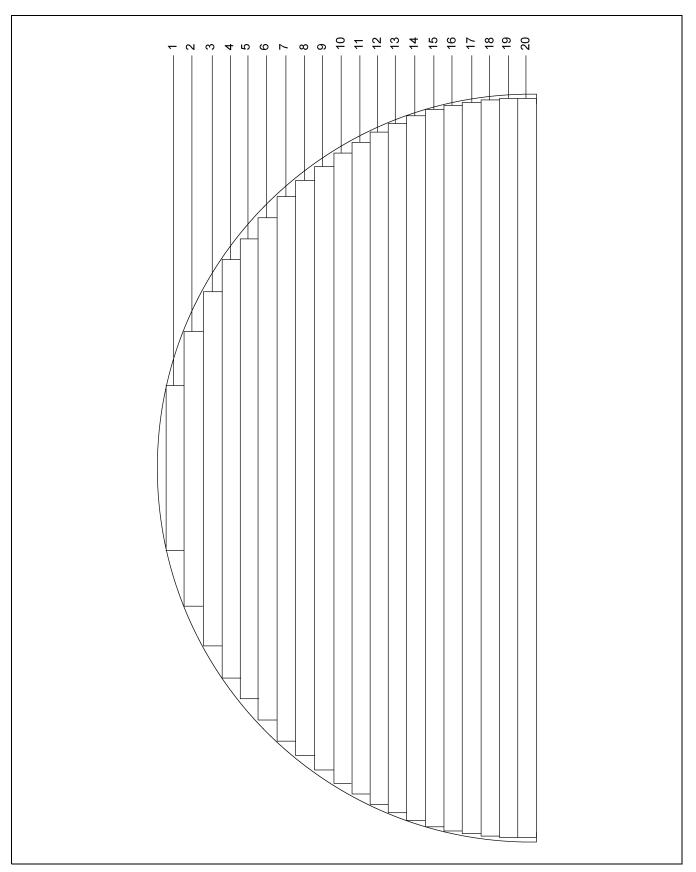


Figure 6L Plank Layout for 24' Diameter Bin

## 24' Plank Layout for Manual

Plank #	Plank Length	In Inch	In Metric
1	5'-6"	66	167.64
2	8'-8"	104	264.16
3	11'-2"	134	340.36
4	13'-2"	158	401.32
5	14'-6"	174	441.96
6	15'-10"	190	482.6
7	17'-1"	205	520.7
8	18'-1"	217	551.18
9	19'-0"	228	579.12
10	19'-10"	238	604.52
11	20'-6"	246	624.84
12	21'-2"	254	645.16
13	21'-8"	260	660.4
14	22'-2"	266	675.64
15	22'-7"	271	688.34
16	22'-10"	274	695.96
17	23'-0"	276	701.04
18	23'-2"	278	706.12
19	23'-3"	279	708.66
20	23'-3"	279	708.66

## **Limited Warranty - N.A. Grain Products**

The GSI Group, LLC. ("GSI") warrants products which it manufactures, to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months from the date of shipment (or, if shipped by vessel, 14 months from the date of arrival at the port of discharge). If, in GSI's sole judgment, a product is found to have a defect in materials and/or workmanship, GSI will, at its own option and expense, repair or replace the product or refund the purchase price. This Limited Warranty is subject to extension and other terms as set forth below.

#### **Warranty Enhancements:**

The warranty period for the following products is enhanced as shown below and is in lieu of (and not in addition to) the above stated warranty period. (Warranty Period is from date of shipment.)

	Product	Warranty Period	
	Grain Bin Structural Design		
Ctanama	Sidewall, roof, doors, platforms and walkarounds	5 Years	
Storage	<ul> <li>Flooring (when installed using GSI specified floor support system for that floor)</li> </ul>		
	Hopper tanks (BFT, GHT, NCHT, and FCHT)		
	Dryer Structural Design - (Tower, Portable and TopDry)	5 Years	
	<ul> <li>Includes (frame, portable dryer screens, ladders, access doors and platforms)</li> </ul>		
Conditioning	All other Dryer parts including:	2 Years	
Conditioning	Electrical (controls, sensors, switches and internal wiring)		
	All Non-PTO Driven Centrifugal and Axial Fans	3 Years	
	Bullseye Controllers	2 Years	
Material Handling	Bucket Elevators Structural Design	5 Years	
	Towers Structural Design	5 Years	
	Catwalks Structural Design	5 Years	
	Accessories (stairs, ladders and platforms) Structural Design	5 Years	

#### **Conditions and Limitations:**

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH HEREIN; SPECIFICALLY, GSI DISCLAIMS ANY AND ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH: (I) ANY PRODUCT MANUFACTURED OR SOLD BY GSI, OR (II) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.

The sole and exclusive remedy for any claimant is set forth in this Limited Warranty and shall not exceed the amount paid for the product purchased. This Warranty only covers the value of the warranted parts and equipment, and does not cover labor charges for removing or installing defective parts, shipping charges with respect to such parts, any applicable sales or other taxes, or any other charges or expenses not specified in this Warranty. GSI shall not be liable for any other direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. Expenses incurred by or on behalf of a claimant without prior written authorization from the GSI warranty department shall not be reimbursed. This warranty is not transferable and applies only to the original end-user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor. Prior to installation, the end-user bears all responsibility to comply with federal, state and local codes which apply to the location and installation of the products.

This Limited Warranty extends solely to products sold by GSI and does not cover any parts, components or materials used in conjunction with the product, that are not sold by GSI. GSI assumes no responsibility for claims resulting from construction defects, unauthorized modifications, corrosion or other cosmetic issues caused by storage, application or environmental conditions. Modifications to products not specifically delineated in the manual accompanying the product at initial sale will void all warranties. This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained.

#### **Notice Procedure:**

In order to make a valid warranty claim a written notice of the claim must be submitted, using the RMA form, within 60 days of discovery of a warrantable nonconformance. The RMA form is found on the OneGSI portal.

#### **Service Parts:**

GSI warrants, subject to all other conditions described in this Warranty, Service Parts which it manufactures for a period of 12 months from the date of purchase unless specified in Enhancements above.

(Limited Warranty - N.A. Grain Products\_ revised 01 October 2020)

This equipment shall be installed in accordance with the current installation codes and applicable regulations, which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.



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