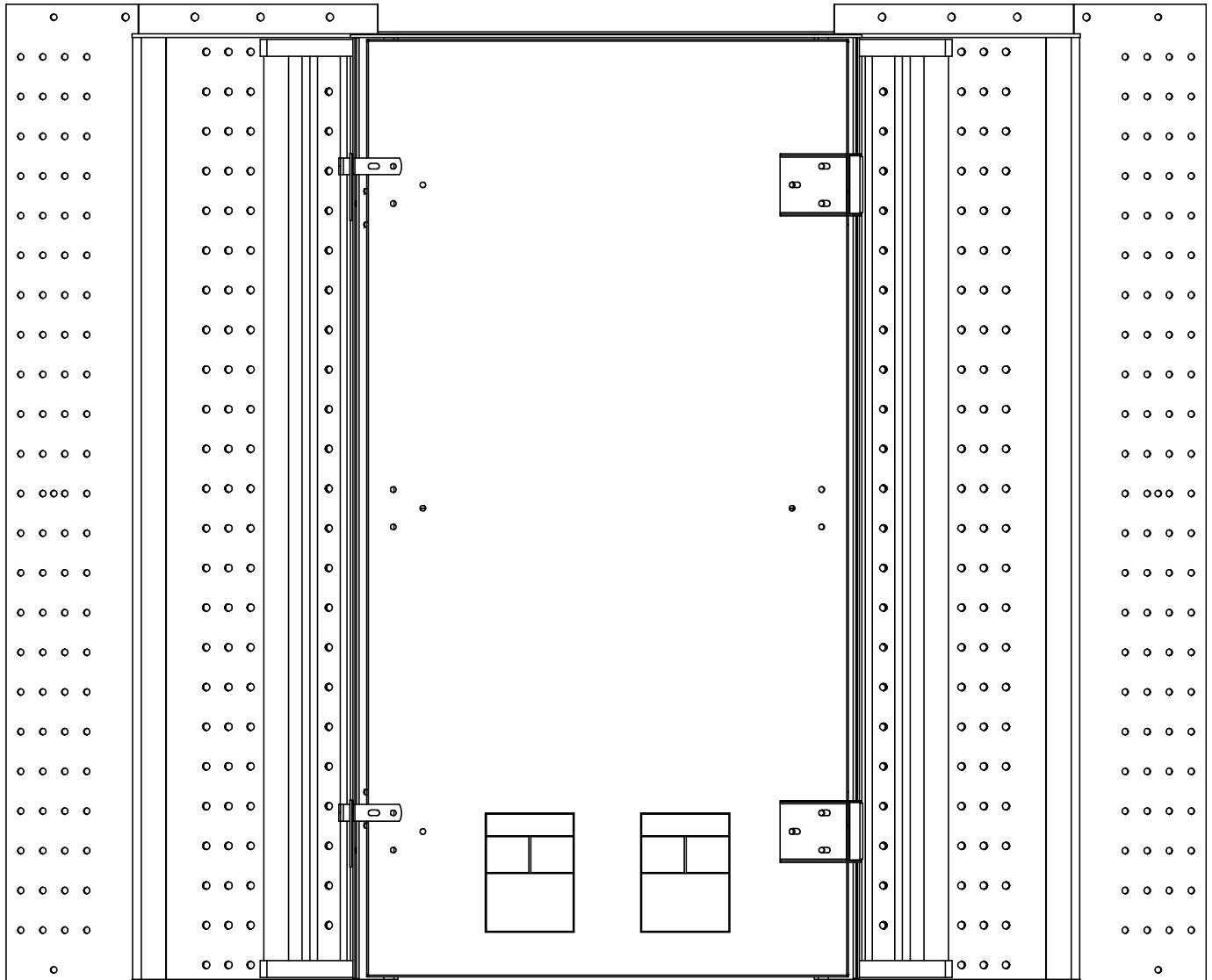


PNEG-1086 42'-60' EXTERNALLY STIFFENED 2 RING DOOR ASSEMBLY INSTRUCTIONS

PRINTED: 5/2002

REVISED: 3/2003



PNEG-1086

SAFETY GUIDELINES

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting **personal safety** and **preventing equipment problems**. It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidelines. To help you recognize this information, we use the symbols that are defined below. Please read the manual and pay attention to these sections. Failure to read this manual and it's safety instructions is a misuse of the equipment and may lead to serious injury or death.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



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



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



NOTE indicates information about the equipment that you should pay special attention to.

General Safety Statement

The GSI Group, Inc.'s, principal concern is your safety and the safety of others associated with grain handling equipment. This manual is to help you understand safe operating procedures and some problems which may be encountered by the operator and other personnel.

As owner and/or operator, it is your responsibility to know what requirements, hazards and precautions exist and inform all personnel associated with the equipment or in the area. Safety precautions may be required from the personnel. Avoid any alterations to the equipment. Such alterations may produce a very dangerous situation, where serious injury or death may occur.

You should consider the location of the bin site relative to power line locations or electrical transmission equipment. We recommend you contact your local power company to review your installation plan or for information concerning required equipment clearance. Clearance of portable equipment that may be taken to the bin site should be reviewed and considered as well. Any electrical control equipment in contact with the bin should be properly grounded and installed in accordance with National Electric Code provisions and other local or national codes.

This product is intended for the use of grain storage only. Any other use is a misuse of the product!



This product has sharp edges! These sharp edges may cause serious injury. To avoid injury, handle sharp edges with caution and use proper protective clothing and equipment at all times.

Sidewall bundles or sheets must be stored in a safe manner. The safest method of storing sidewall bundles is laying horizontally with the arch of the sheet upward or over like a dome. Sidewall sheets stored on edge must be secured in a way that they cannot fall over and cause injury. Care should be taken in the handling and movement of sidewall bundles.

Personnel operating or working around equipment should 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.

Safety

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. 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.

Keep your machinery in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.



PRACTICE SAFE MAINTENANCE

Understand service procedures before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is in operation. Keep hands, feet, and clothing from all rotating parts.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any build up of grease, oil, or debris.

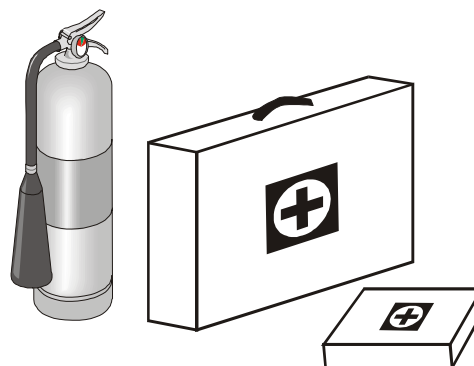


PREPARE FOR EMERGENCIES

Be prepared if fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

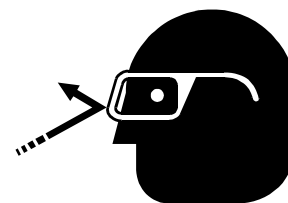
Safety glasses should be worn at all times to protect eyes from debris.

Wear gloves to protect your hands from sharp edges on plastic or steel parts.

A respirator may be needed to help prevent breathing potentially toxic fumes and dust.

Wear hard hat and steel toe boots to help protect your head and toes from falling debris.

Eye Protection



Gloves



Steel Toe Boots



Respirator

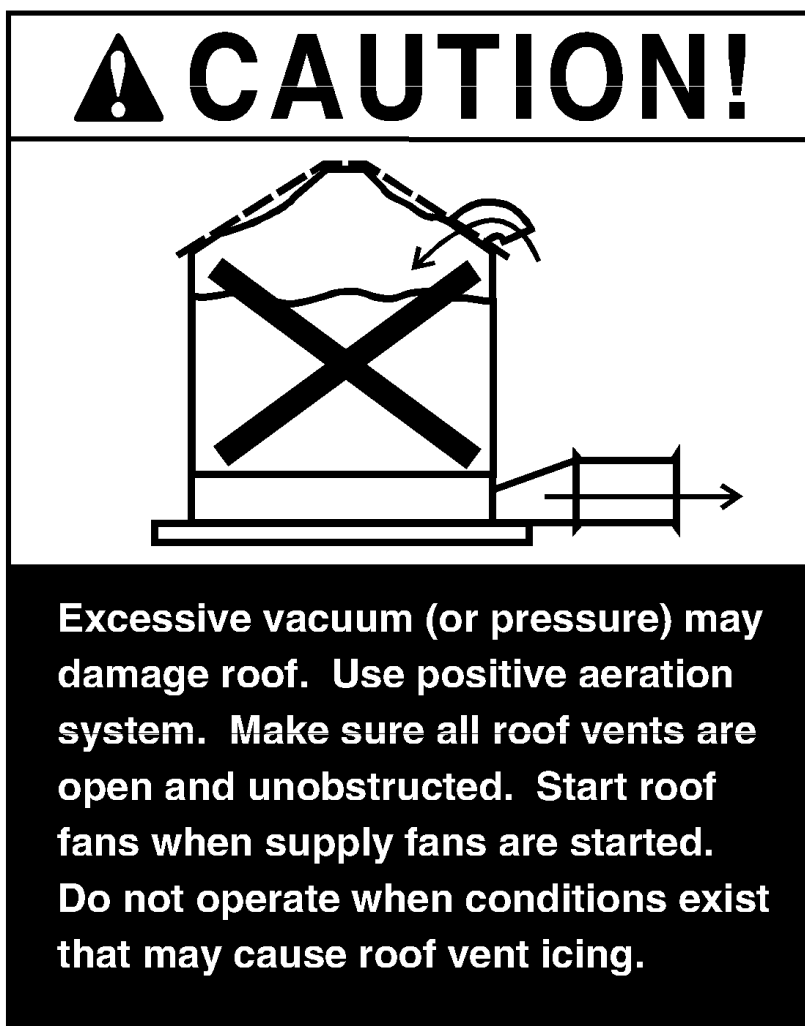


Hard Hat



CAUTION!

GSI DOES NOT WARRANT ANY ROOF DAMAGE CAUSED BY EXCESSIVE VACUUM OR INTERNAL PRESSURE FROM FANS OR OTHER AIR MOVING SYSTEMS. ADEQUATE VENTILATION AND/OR "MAKEUP AIR" DEVICES SHOULD BE PROVIDED FOR ALL POWERED AIR HANDLING SYSTEMS. GSI DOES NOT RECOMMEND THE USE OF DOWNWARD FLOW SYSTEMS (SUCTION). SEVERE ROOF DAMAGE CAN RESULT FROM ANY BLOCKAGE OF AIR PASSAGES. RUNNING FANS DURING HIGH HUMIDITY/COLD WEATHER CONDITIONS CAN CAUSE AIR EXHAUST OR INTAKE PORTS TO FREEZE.



Safety Decal

ATTENTION: The decal shown below should be present on the inside of the door cover of the two ring door, 24" porthole door cover and the roof manway cover. If a decal has been damaged or is missing in any of these locations contact the manufacturer for a free replacement decal.

DECALS
P.O. BOX 20
ASSUMPTION, IL. 62510-0020
(217) 226-4421



DANGER



**Rotating flighting will
kill or dismember.**



**Flowing material will
trap and suffocate.**



**Crusted material will
collapse and suffocate.**

Keep 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 will result in serious injury or death.

DC-GBC-1A

Safety Decal

ATTENTION: The decal shown below should be present on the outside of the door cover on the two ring door, 24" porthole door cover and roof manway cover. If a decal has been damaged or is missing in any of these locations contact the manufacturer for a free replacement decal.

DECALS
P.O. BOX 20
ASSUMPTION, IL. 62510-0020
(217)-226-4421



WARNING



DON'T



DO

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.**

DC-GBC-2A

Safety Sign-Off Sheet

It is necessary for the employer to train the employee in the safe operating and safety procedures for this equipment. We included this sign-off sheet for your convenience and personal record keeping. All unqualified persons are to stay out of the work area at all times. A person who has not read this manual and does not understand all operating and safety instructions is not qualified to operate this equipment.

DATE	EMPLOYER'S SIGNATURE	EMPLOYEE'S SIGNATURE
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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. Report any damage or shortages by recording a detailed description on the Bill of Lading to justify the Customer's claim from the Transport Firm. Our responsibility for damage to the equipment ends with acceptance by the delivering carrier. Save all paperwork and documentation furnished with any of the equipment/components.

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

WARRANTY is provided as part of the company's support program for customers who use and maintain their equipment as described in the manual. The warranty is explained on the warranty page located on the inside back cover of this manual.

This warranty provides you the assurance that the company will back its products where 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.

Properly Store Grain Bin/Silo Materials Prior to Construction to Prevent Wet Storage Stain:

Wet storage stain (rust) will develop when closely packed bundles of galvanized material such as sidewall and roof sheets have moisture present from any source. Roof and sidewall bundles should be inspected on arrival for the presence of moisture. If moisture is present, moisture must not be permitted to remain between the sheets. In the case of moisture presence, sheets or panels should be separated immediately, wiped down, dried and sprayed with a light oil or diesel fuel.

Where possible, sidewall bundles, roof sheets and other closely packed materials should be stored in a dry climate controlled building. Storage inside a dry building should be done if at all possible. Where outdoor storage is unavoidable, the materials should be raised out of contact from the ground or vegetation. Stacking and spacing materials should not be corrosive or wet. Materials must be protected from the weather. Weather protection that permits more air movement around the bundles are best.

The storage method of the roof bundles and sidewall sheets may also help minimize moisture presence. Roof bundles should be stored inclined. The bundles should be stored and secured in a stable safe manner. Turning the bundles over and storing with the center of the dome “up” like a arch is a option. Sidewall bundles may be stored on edge, **however these bundles should be secured in such as way as they cannot fall over and cause injury.**

Should “white rust” or “wet storage stain” occur, contact GSI immediately concerning methods to minimize the adverse effect upon the galvanized coating.

IMPORTANT NOTE:

This GSI Commercial Two Ring Door is designed for use in the 2.66" corrugation NCL series of tanks manufactured after 1991 utilizing the "universal" or hat shaped stiffener. This door is intended for use with a tank specifically structured for the installation of the two ring door. Special sidewall sheets are provided as part the tank sidewall bundles. You must consult with GSI concerning retrofitting into any existing GSI manufactured tank.

The door package NCWT0108 is designed for use in 42' – 60' (12.81 –18.29 meter) diameter tanks with a maximum eave height = 90'-10" / 27.69 meters and external stiffeners.

You should not attempt to install this door in any 2.66"corrugation GSI "Z" stiffener tank (pre 1991 series).

This door should not be installed in any GSI 4" corrugation series tank..

Consult with GSI concerning retrofitting into any existing GSI manufactured tank to determine compatibility of the door package with the existing sidewall and stiffener configuration.

This door should not be installed in any tank not manufactured by GSI.

WRITTEN INSTRUCTIONS

Written Instructions for Installation of a NCWT0108 (42' - 60' Diameter Bin / Silo) Two Ring Door Package in a Externally Stiffened Tank

- 1.) The commercial two ring door is installed in the bottom two rings.
- 2.) The door should normally be placed in line with the conveyor. A intermediate discharge well should be located near the wall to clear grain from the area of the access door (as with any access door).
- 3.) The door has an inside frame weldment and an external frame weldment / assembly. If the tank has not been erected the internal frame weldment should be placed inside the tank before erection. If the tank has been erected or erection has begun, it will be necessary to remove sidewall and stiffeners in the door placement area to place the inside frame weldment.

The external door frame stiffener will mount at the standard externally stiffened tank anchor bolt location (ref. page 8 of 11). If bolts have been pre-placed then place the frame and stiffeners over the pre-placed bolts. If drill in anchors are to be used it is recommended the holes be predrilled at the proper location.

- 4.) The stiffeners are mounted in the frame directly under the tank stiffener columns (ref. page 9 of 11). For the case of the externally stiffened tank these stiffeners will be mounted in the external frame. The frame should have the stiffeners already in place with two bolts to hold them in location. These bolts will need to be removed to install the door, however the stiffeners may be left in position in the frame. The stiffeners will mount in the frame such that the tank stiffener will bear directly above it. Should the stiffeners not be so placed, they should be placed in that location. Standard base stiffener weldments mount above the frame stiffeners.
- 5.) Left and Right hand jamb plates (NCWT0091L & R) are provided for attachment of the sidewall sheets to the door frame. The jamb plate will mount between the internal and external frame. Place the jamb plate between the internal and external frame and bolt the frame, plate and stiffener together utilizing 7/16" diameter bolts. Utilize 7/16" x 1.1/2" bolts (ref. page 10 of 11) for the plate to jamb connection utilize 7/16" x 2" bolt for stiffener to jamb to plate connection. At the jamb plate to frame connection install the bolts with the head and sealing washer on the outside of the tank. At the stiffener to frame to plate connection install the bolts with the head and sealing washer on the inside of the tank.

The internal door panel hinges will mount utilizing stiffener to frame bolts (on the inside of the tank). Place an additional sealing washer under the hinge at those bolt locations before bolting it in place. Reference page 6 of 11. Shim as necessary with 7/16" flat washers to obtain proper alignment with door panel hinges.

- 6.) The sidewall sheets to the left and right of the door will mount to the outside of the jamb plate. Two special short sidewall sheets (44") and two standard length (119"), special punched sheets are provided. Attach the sidewall to the jamb plate utilizing 3/8" diameter x 1.1/2" long bolts (ref. page 10 of 11). Corrugated sealing strip, CWT-0053 is provided. This may be mounted at the outer edge and inner edge of the jamb plate to sidewall interface. Caulk around the seal strip as well. A flat washer may be required under the nut for certain gage thickness'.

Bolt head / sealing washer should be on the the outside of the tanks for this connection.

Note: For tanks that utilize 13 gage or thinner material 3/8" x 1" bolts may be used to attach the sidewall to the jamb plate.

The horizontal seam of the sidewall sheet above the door header will bolt to the jamb plate where it extends above the door frame. The sidewall will be on the exterior of the plate. Install base angle (B-6753) at the area the plate does not extend above. Utilize silicon caulk as necessary to seal this location.

WRITTEN INSTRUCTIONS

Written Instructions for Installation of a NCWT0108 (42' - 60' Diameter Bin / Silo) Two Ring Door Package in a Externally Stiffened Tank

Standard base stiffeners will mount directly above the frame stiffener. Shim as necessary for firm support and bolt the stiffeners together using a 3/4" x 5" bolt, 3/4" nut and 3/4" washers.

- 7.) Bearing pins, WD-6224 (8), are mounted to the inside frame flange at the 8 large / .65" x .75" slots. Use S-2741, 5/16" x 1.1/2" bolts and attach the bearing pins at these 8 locations by inserting the grooved pin into the hole and running the 5/16" bolt to the inside (ref. page 5 of 11). Use 5/16" washer (S-845) and 5/16" flange head nut (S-3611) to secure bearing pin.
- 8.) Assemble the door handle reinforcement angles, door handles, latches and hinges to the top and bottom inner door panels as shown in the assembly sketches (ref. Pages 3-4 of 11). Install the 1/2" x 1.1/2" bolts in the outer door frame at four locations and thread the door latch bar holder (WD-6234) onto the bolt. The door handle will mount over these holders when installed. Utilize washers if necessary to adjust the latch bar holder position (ref. Page 5 of 11). Mount the door panel onto the 4 bearing pins and lock the latches over the latch bar holder. Center the bearing pins in the door panel holes and tighten. Then attach the door panel hinges to the frame hinges. Be sure door panels open smoothly and the latch bars lock completely. Apply 1/2" x 1" seal strip to the inner frame weldment to seal around the inner panels.
- 9.) Bolt the outer cover attachment angles onto the outer frame weldment with 5/16" x 1 1/4" bolts. Use a 5/16" flat washer on all slotted connections. Reference page 2 of 11 for details.
- 10.) Attach the outer cover hinge weldment (NCWT0165) and the latch brackets (NCWT0166) to the outer cover angles with 5/16" x 1 1/4" bolts. Bolt head should be on the inside for all outer cover angle connections. Use a 5/16" flat washer on all slotted connections. Reference page 2 of 11 for details.
- 11.) Assemble the exterior cover as shown in the assembly sketch (ref. Page 11 of 11). Install the retaining brackets (WD-033), outer cover hinges (NCWT0170), and reinforcement channels to the outer cover as shown. Use 5/16" x 3/4" bolts for all outer cover reinforcement channel connections only. Use 5/16" x 1 1/4" bolts for all retaining bracket and hinge connections. The bolt head with sealing washer should be on the outside of the door cover for these connections. Attach the outer cover assembly to the outer cover hinge weldments with 3/8" x 4 1/2" bolts and nuts. Adjust hinges until outer cover opens and closes smoothly. Apply 1/2" x 1" foam seal strip to the outer frame weldment to seal outer cover. Fill all unused bolt holes with 3/8" x 1" bin bolts. Check to insure that the unloading decals (DC-GBC-2A and DC-GBC-2S) are installed on the outside of the outer door cover. Check to insure that the danger decals (DC-GBC-1A and DC-GBC-1S) are installed on the inside of the outer door cover. Please contact GSI immediately if decals are missing or damaged.
- 12.) Caulk as necessary at the top and bottom juncture of the door frame and the sidewall and foundation

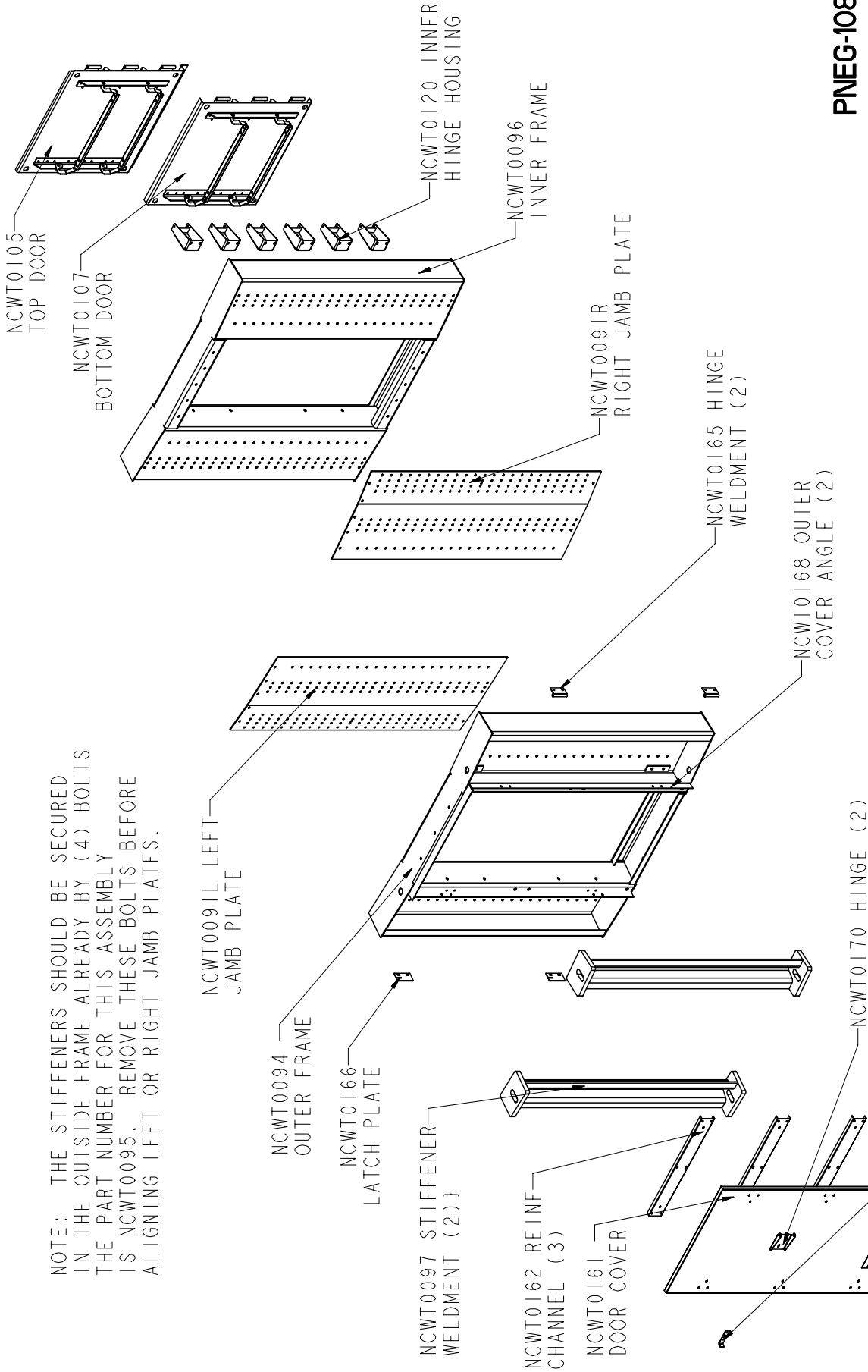
The diagram illustrates the layout of a bin, showing the arrangement of standard and special sidewall sheets. The bin is divided into two main sections: the "LEFT" section and the "RIGHT" section. The "LEFT" section is labeled "OUTSIDE OF BIN" and contains a "STANDARD SIDEWALL SHEET" and a "SPECIAL SIDEWALL SHORT SHEET". The "RIGHT" section is labeled "INSIDE OF BIN" and contains a "SPECIAL SIDEWALL SHEET" and a "SPECIAL SIDEWALL SHORT SHEET". The diagram also shows the "LEFT" and "RIGHT" ends of the bin, with the "LEFT" end labeled "LEFT" and the "RIGHT" end labeled "RIGHT".

SIDEWALL LAYOUT

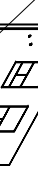

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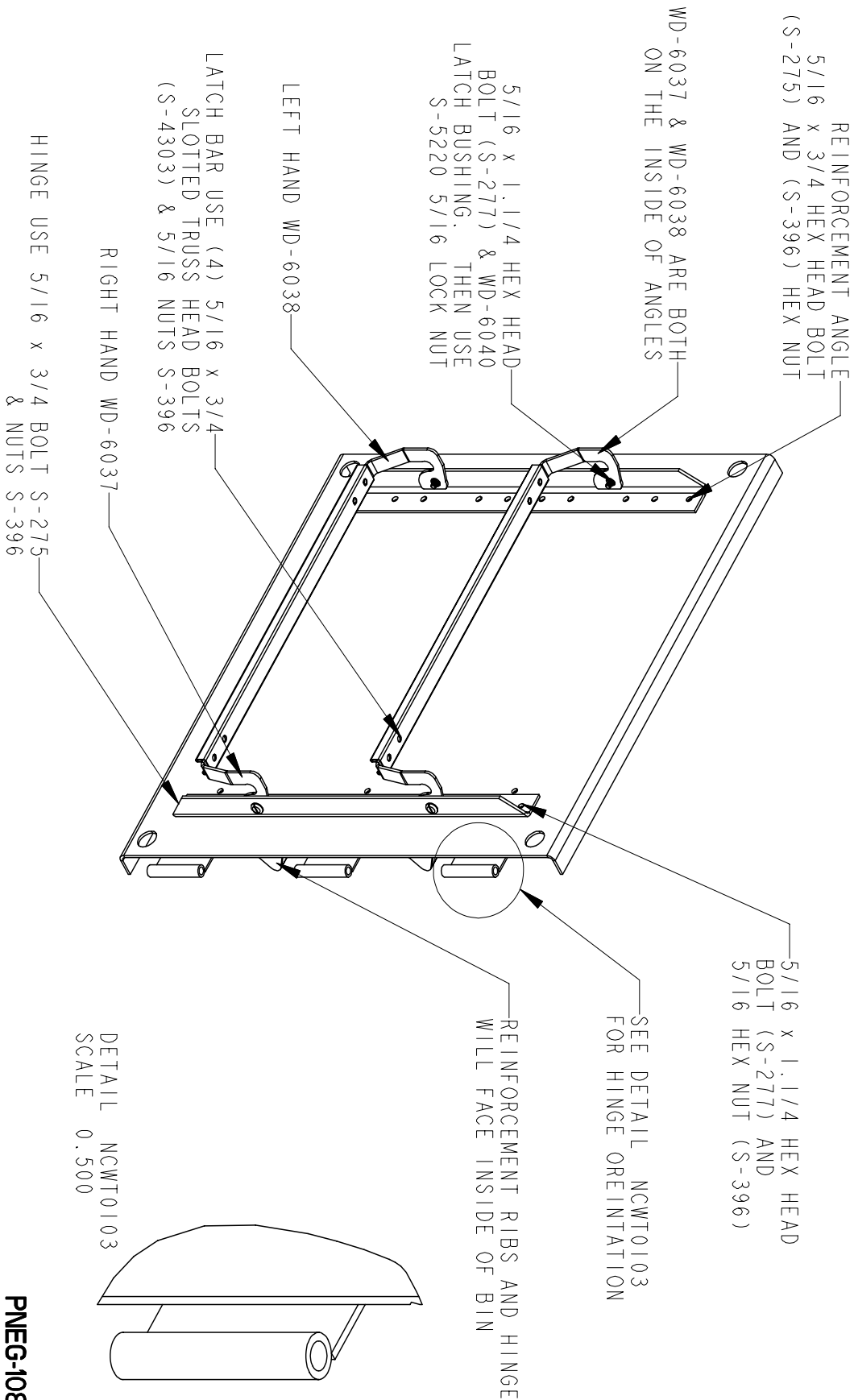
NOTE: THE STIFFENERS SHOULD BE SECURED IN THE OUTSIDE FRAME ALREADY BY (4) BOLTS THE PART NUMBER FOR THIS ASSEMBLY IS NCWT0095. REMOVE THESE BOLTS BEFORE ALIGNING LEFT OR RIGHT JAMB PLATES.



PNEG-1086

<div><div>WD-033 RETAINING BRACKET (2)</div></div>																			
						THE CSI GROUP													
						Assumption, IL													
		REVISED OUTER DOOR COVER		3/25/03		TJH													
2		4729																	
		REVISED DOOR PANEL ASSEMBLY		10/15/02		TJH													
1																			
		Revision Description		Date By															
No.		ECN																	

ITEM	PART #	QTY	DESCRIPTION
1	NCWT0107-ASB	1	BOTTOM INNER DOOR ASSEMBLY



BOTTOM INNER PANEL

SCALE 0.130

PNEG-1086

THE GSI GROUP Assumption, IL		42-60 NCWT DOOR		TOLERANCES (Unless Noted) Fractions +/- 1/32" Decimals +/- .031 Angles +/- 1.00		Sheet 1 of 2		INCH N/A		Drawing No.	
1	REVISED DOOR PANEL ASSEMBLY	10/15/02 TJH	Engineering Division	GRAIN SYSTEMS	EXTERNALLY STIFFENED	Weight N/A	Net Wt. N/A	Net Wt. N/A	Net Wt. N/A	Net Wt. N/A	
No.	ECN	Revision Description	Date	By		Material N/A	By KG	Check KG	Net 00-00-00	Net 00-00-00	Work to Dimensions Do Not Scale

ITM

PART #

QTY

DESCRIPTION

1

NCWT0105-ASB

1

TOP INNER DOOR ASSEMBLY

5/16 x 1.1/4 HEX HEAD BOLT (S-277) AND 5/16 HEX NUT (S-396)

REINFORCEMENT ANGLE 5/16 x 3/4 HEX HEAD BOLT (S-275) & (S-396) HEX NUT

WD-6037 & WD-6038 ARE BOTH ON THE INSIDE OF ANGLES

5/16 x 1.1/4 HEX HEAD BOLT (S-277) & WD-6040 LATCH BUSHING. THEN USE (S-5220) LOCK NUT

LEFT HAND WD-6038

LATCH BAR USE (4) 5/16 x 3/4 SLOTTED TRUSS HEAD BOLTS (S-4303) & 5/16 NUTS (S-396)

RIGHT HAND WD-6037

HINGE USE 5/16 x 3/4 BOLTS (S-275) & 5/16 NUTS (S-396)

SEE DETAIL

DETAIL NCWT0103

REINFORCEMENT RIBS & HINGE WILL FACE INSIDE OF BIN

DETAIL NCWT0103

SCALE 0.500

PNEG-1086

Stock Size

N/A

Material

N/A

Sheet 1 of 2

N/A

Weight

N/A

Ship

89.338

Drawn

01-Aug-01

Checked

00-00-00

By

Do Not Scale

TOLERANCES (Unless Noted)

Fractions +/- 1/32"

Decimals +/- .031

Angles +/- 1.00

THE GSI GROUP

Assumption, IL

Engineering Division

GRAIN SYSTEMS

No.

ECN

Revision Description

Date

By

42-60 NCWT DOOR

EXTERNALLY STIFFENED

Drawing No.

PAGE 4 OF 11

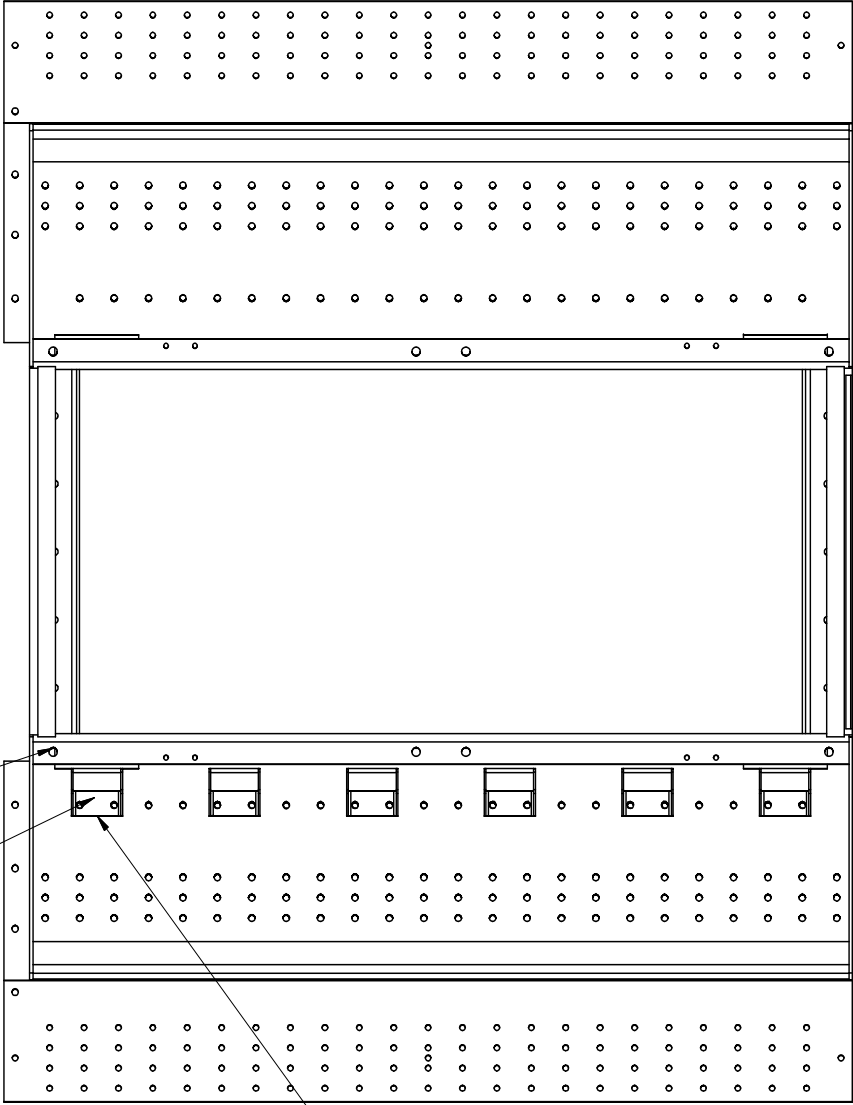
TOP INNER PANEL
SCALE 0.130

ITEM	PART #	QTY	DESCRIPTION
1	NCWT0096	1	INSIDE FRAME
2	NCWT0091L	1	SIDEWALL CONNECTOR PLATE
3	NCWT0095	1	OUTER FRAME ASSEMBLY
4	NCWT0092	6	INNER DOOR HINGE HOUSING
5	NCWT0107_ASB	1	BOTTOM INNER DOOR ASSEMBLY
6	NCWT0105_ASB	1	TOP INNER DOOR ASSEMBLY
7	NCWT0091R	1	SIDEWALL CONNECTOR PLATE
8	NCWT0168	2	OUTER COVER SEAL ANGLE
9	NCWT0165	2	OUTER COVER HINGE WELDMENT
10	NCWT0166	2	LATCH PLATE
11	NCWT0161_ASSY	1	OUTER COVER ASSEMBLY W/ DECALS

REVISED 3/31/03

WD-6224 BEARING
PIN (8)

NCWT0120 HINGE
WELDMENT (6)

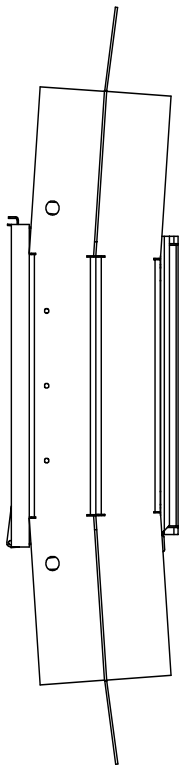


THE HINGES START AT THE TOP
TWO HOLES IN THE SAME LINE AS
THE STIFFENER. SKIP TWO HOLES
THEN PLACE ANOTHER HINGE.
PROCEED DOWN THE ROW AS SHOWN.

AS SEEN FROM INSIDE OF BIN
SCALE } 0.080

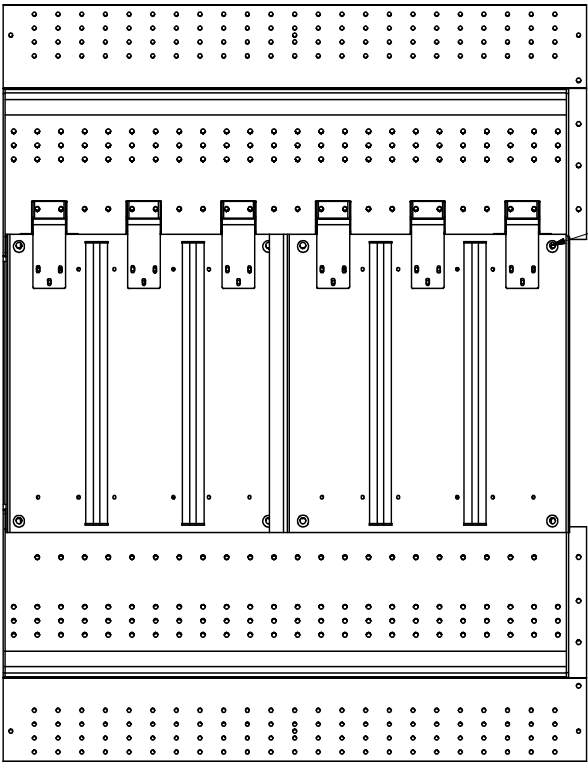
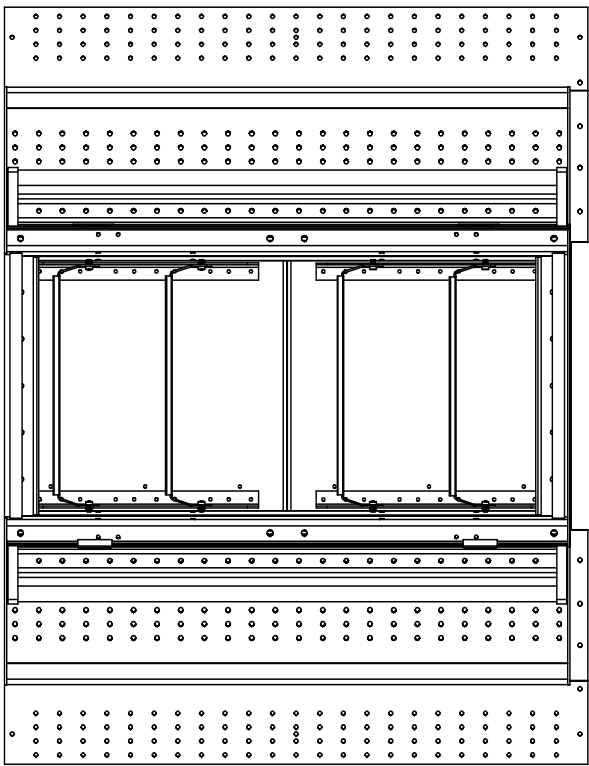
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TOP VIEW

CENTER BEARING PIN IN DOOR
PANEL HOLE AND TIGHTEN



OUTSIDE OF BIN
SCALE 0.055

INSIDE OF BIN
SCALE 0.055

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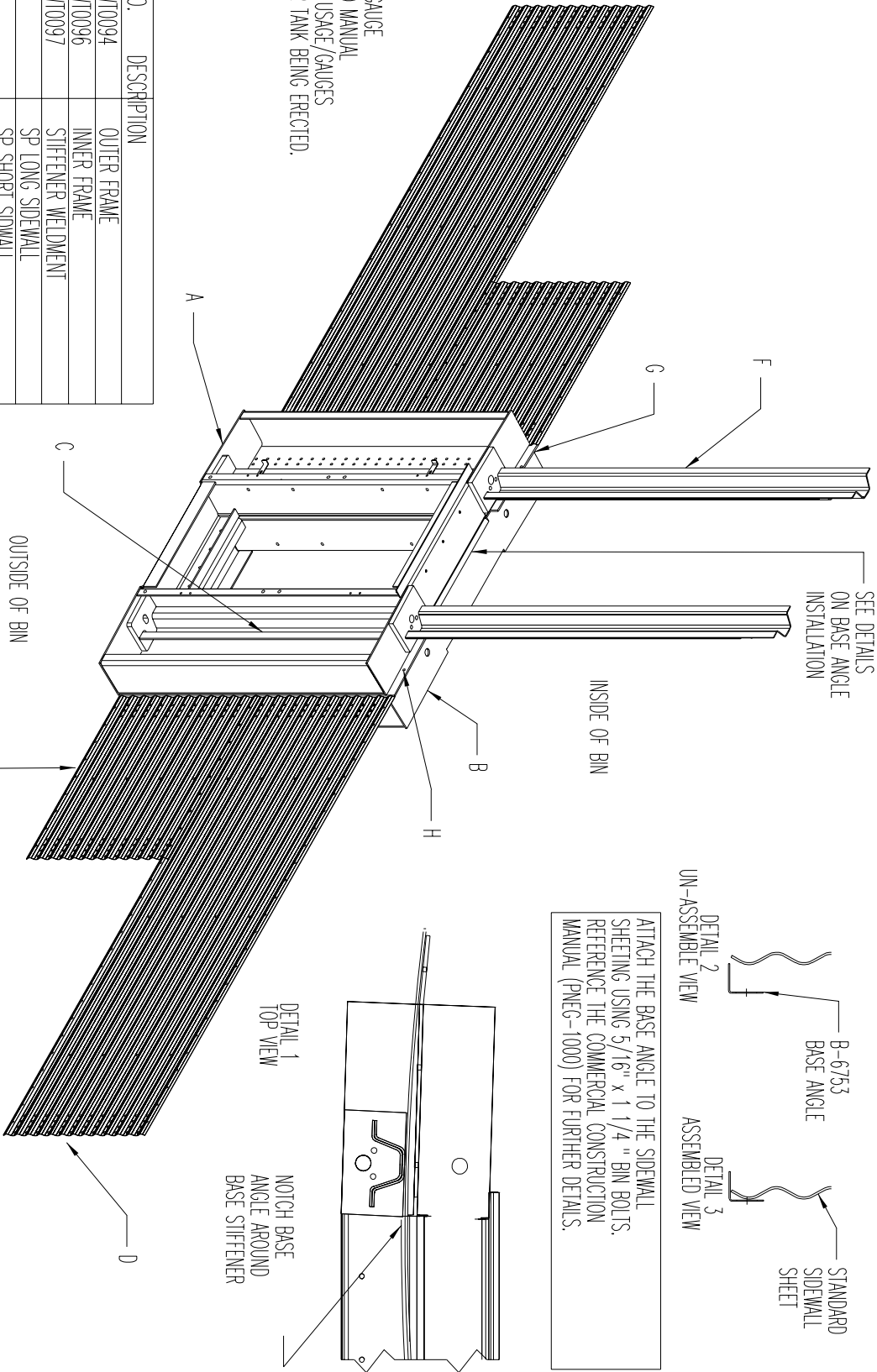
ITEM	PART #	QTY	DESCRIPTION
1	NCWT0096	1	INSIDE FRAME
2	NCWT0091L	1	SIDEWALL CONNECTOR PLATE
3	NCWT0095	1	OUTER FRAME ASSEMBLY
4	NCWT0092	6	INNER DOOR HINGE HOUSING
5	NCWT0107-ASB	1	BOTTOM INNER DOOR ASSEMBLY
6	NCWT0105-ASB	1	TOP INNER DOOR ASSEMBLY
7	NCWT0091R	1	SIDEWALL CONNECTOR PLATE
8	NCWT0168	2	OUTER COVER SEAL ANGLE
9	NCWT0165	2	OUTER COVER HINGE WELDMENT
10	NCWT0166	2	LATCH PLATE
11	NCWT0161-ASSY	1	OUTER COVER ASSEMBLY W/ DECALS

REVISED 3/31/03

2	4729	REVISED OUTER COVER		3/25/03	TJH	Engineering Division		42-60 NCWT DOOR		TOLERANCES (Unless Noted) Fractions +/- 1/32" Decimals +/- .031 Angles +/- 1.00	
No.	ECN	Revision Description		Date	By	GRAIN SYSTEMS		EXTERNALLY STIFFENED		Sheet 1 of 1	

NOTE:
REFERENCE THE GAUGE
SHEET ATTACHED TO MANUAL
FOR ACTUAL SHEET USAGE/GAUGES
ON THE PARTICULAR TANK BEING ERRECTED.

KEY	PART NO.	DESCRIPTION
A	NCMT0094	OUTER FRAME
B	NCMT0096	INNER FRAME
C	NCMT0097	STIFFENER WELDMENT
D		SP LONG SIDEWALL
E		SP SHORT SIDEWALL
F		STANDARD BASE STIFFENER
G	NCMT0091L	LEFT JAMB/SDW PLATE
H	NCMT0091R	RIGHT JAMB/SDW PLATE



OUTSIDE OF BIN
ASSEMBLED VIEW

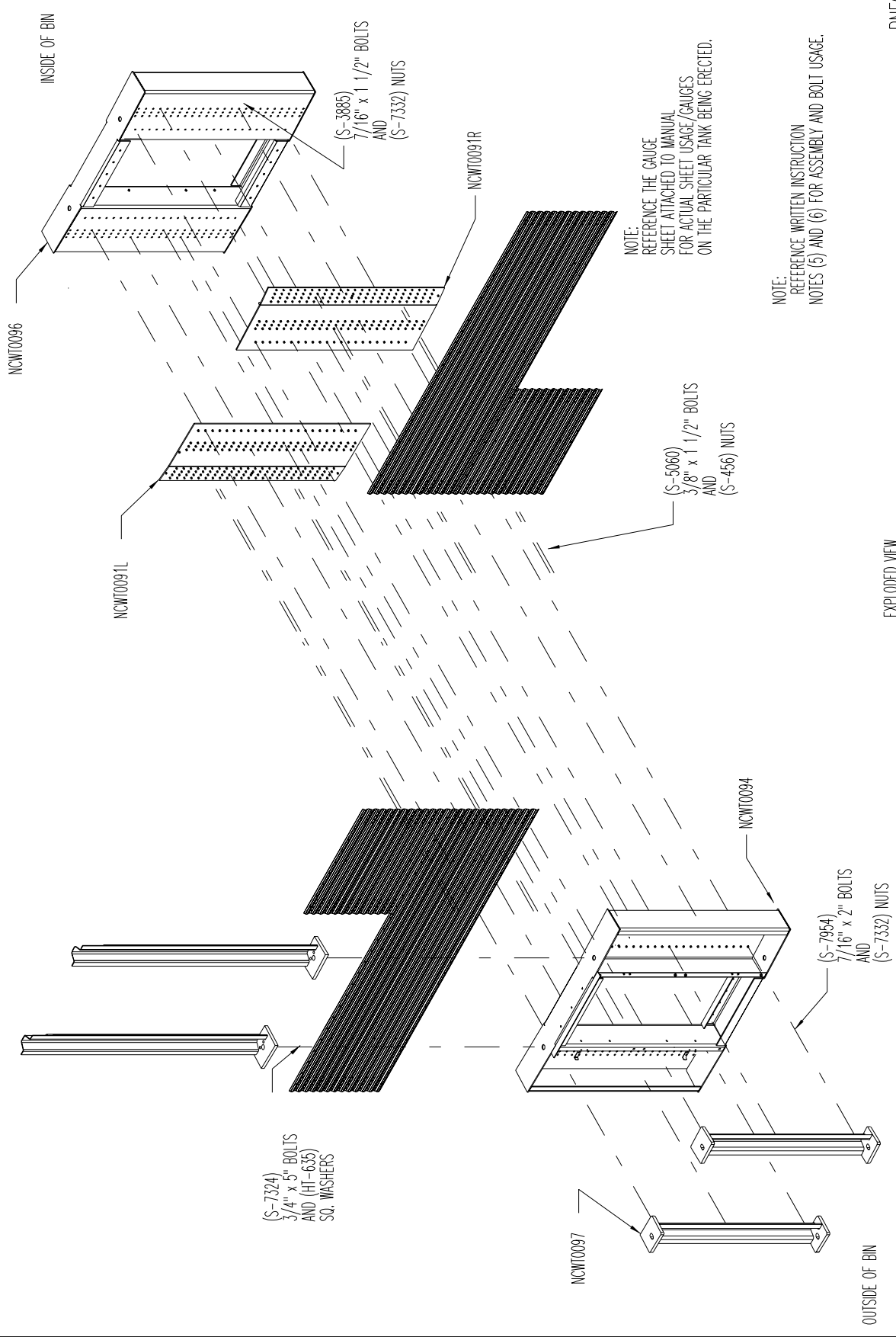
SEE PAGE 10 OF 12
FOR HARDWARE SPECIFICATIONS

DETAIL 1
TOP VIEW
NOTCH BASE
ANGLE AROUND
BASE STIFFENER

DETAIL 2
UN-ASSEMBLED VIEW
B-6/753
BASE ANGLE
STANDARD
SIDEWALL
SHEET
DETAIL 3
ASSEMBLED VIEW

ATTACH THE BASE ANGLE TO THE SIDEWALL
SHEETING USING 5/16" x 1 1/4" BIN BOLTS.
REFERENCE THE COMMERCIAL CONSTRUCTION
MANUAL (PNEC-1000) FOR FURTHER DETAILS.

No.	ECN	Revision Description	Date	By	A DIVISION OF THE GSI GROUP, INC. Assumption, IL 62510 217/226-4421				42-60 NCMT DOOR EXTERNALLY STIFFENED				TOLERANCES (Unless Noted) Fractions +/- 1/32" Decimals +/- .031" Angles +/-				Length 3/16" 3/8" 1/2" 5/8" 3/4" 1" 1 1/4" 1 3/4" 2" 2 1/2" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2" 9" 9 1/2" 10" 10 1/2" 11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 15 1/2" 16" 16 1/2" 17" 17 1/2" 18" 18 1/2" 19" 19 1/2" 20" 20 1/2" 21" 21 1/2" 22" 22 1/2" 23" 23 1/2" 24" 24 1/2" 25" 25 1/2" 26" 26 1/2" 27" 27 1/2" 28" 28 1/2" 29" 29 1/2" 30" 30 1/2" 31" 31 1/2" 32" 32 1/2" 33" 33 1/2" 34" 34 1/2" 35" 35 1/2" 36" 36 1/2" 37" 37 1/2" 38" 38 1/2" 39" 39 1/2" 40" 40 1/2" 41" 41 1/2" 42" 42 1/2" 43" 43 1/2" 44" 44 1/2" 45" 45 1/2" 46" 46 1/2" 47" 47 1/2" 48" 48 1/2" 49" 49 1/2" 50" 50 1/2" 51" 51 1/2" 52" 52 1/2" 53" 53 1/2" 54" 54 1/2" 55" 55 1/2" 56" 56 1/2" 57" 57 1/2" 58" 58 1/2" 59" 59 1/2" 60" 60 1/2" 61" 61 1/2" 62" 62 1/2" 63" 63 1/2" 64" 64 1/2" 65" 65 1/2" 66" 66 1/2" 67" 67 1/2" 68" 68 1/2" 69" 69 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NOTE:
REFERENCE THE GAUGE
SHEET ATTACHED TO MANUAL
FOR ACTUAL SHEET USAGE/GAUGES
ON THE PARTICULAR TANK BEING ERRECTED.

NOTE:
REFERENCE WRITTEN INSTRUCTION
NOTES (5) AND (6) FOR ASSEMBLY AND BOLT USAGE.

EXPLODED VIEW

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