



herkules™

OWNER'S MANUAL



INSTRUCTIONS

This manual contains important information concerning the installation and operation of the equipment listed below.
Read manual thoroughly and keep for future reference

T0018 PIT BOSS

herkules equipment corporation

Herkules Equipment Corporation is the leading manufacturer of high-capacity, air-operated lifts. For more than 25 years Herkules lifts have been recognized worldwide for lifting capacity, durability, flexibility and ease of use.

Lifts powered by Herkules' proprietary Air-Bag™ technology are clean, environmentally friendly, and virtually maintenance free. Used in a variety of industrial and vehicle service applications, air bag lifts are hydraulic free and require only a compressed air connection. The heavy duty air bags are built for rugged daily use, giving your facility a lifetime of trouble-free operation.

In manufacturing plants, vehicle service shops and government facilities, Herkules air-bag lifts surpass all others for lift capacity, low cost of operation and absence of potential environmental hazards.

M0798 (T0018 Tandem Air Lift System).xlsx

Herkules Equipment Corporation
248-960-7100
website: www.herkules.us

2760 Ridgeway Court
800-444-4351

Walled Lake, MI 48390-1662 USA
Fax 248 960-7109

e-mail: info@herkules.us

Table of Contents

Cautions & Warnings	3-4
Installation:	5
Operation:	6
Maintainance:	6
Replacement Parts	7
Drawings	8-9

Limited Liability Warranty

The limited liability warranty applies to the pneumatic chambers of our Herkules lifts and to the initial user against defective materials for a period of five years from the proof of purchase date. The limited liability warranty applies to other components of our Herkules lifts to the initial user against defective materials for a period of one year from the proof of purchase date.

This warranty does not apply to equipment damaged from accident, abuse, overload, misuse, negligence, improper installation, abrasive or corrosive materials, or shipping damage.

In the event of failure, the defective item must be returned, freight prepaid, to the Herkules manufacturing plant for repair or replacement. If repairs are required Herkules will not be liable for these repairs to take place in the field regardless of the application. Proof of purchase and date of purchase must be confirmed. An RGA number (Return Goods Authorization) and written approval from Herkules must be obtained before any goods can be shipped to Herkules. We reserve the right to determine whether the cause of failure is due to defective material, normal wear, and/or other causes.

This warranty is the only warranty that will apply. The lift system is sold “as is” and “with all faults” and there is no implied warranty; and the buyer has examined a sample and or as many of the lifts as desired and there is no implied warranty with regards to defects of the lift systems which the examination would have revealed if desired by the buyer; and after the two year period as mentioned above no implied warranty applies.

There are no warranties which extend beyon warranty of merchantability or fitness for a particular purpose in connection with the Buyer’s purchase of any Product under this agreement. Damages are limited to the sales price of the Herkules system.

The terms and conditions herein represent the entire agreement between Herkules and the Buyer. Any prior / future representations do not apply.

Warning:

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions

Caution:

This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

I. Tag - Operating Instructions (P/N 1006355) Front

1. The equipment is designed solely in accordance with buyer's specifications and technical operating parameters. By using the equipment, buyer acknowledges and agrees that it has inspected the equipment, is satisfied that the equipment is of the size, design, capacity, description and manufacture selected by buyer, compliant with buyer's specifications and technical operating parameters, and solely fit for its intended purposes. Buyer acknowledges and agrees that the manufacturer shall not be liable to buyer, or any operator, for any injury, loss, damage, or expense of any kind or nature caused, directly or indirectly, by the use, operation or maintenance of the equipment which has been modified or is otherwise not in compliance with the equipment specifications and technical operating parameters, and buyer agrees to indemnify and hold the manufacturer harmless from any such claims.
2. Read and understand all warnings, cautions, and instructions in the manual before operating equipment.
3. Inspect equipment prior to use; repair or replace damaged or broken components. Keep system lubricated for proper function.
4. This lift is designed and engineered to be exclusively center loaded unless otherwise specifically specified on the Herkules approval drawing.
5. Secure loads to lift in order to prevent moving or tipping of load.
6. Install lift system only on flat, level surfaces as noted in the installation instructions. If improperly installed, lift system is subject to excessive wear, reduced life span, and lift failure.
7. Do not operate lift until unit has been correctly installed and adjusted as described in the manual.
8. Ensure proper function of safety and maintenance devices regularly.
9. See manual for proper use of maintenance stops.
10. It is the responsibility of the owner/operator to maintain legibility of all safety and instruction labels.
11. Herkules is not responsible for any personal injury or property damage resulting from owner/operator failure to follow instructions, cautions, and warnings.

I. Tag - Operating Instructions (P/N 1006355) Back

Caution:

- 1 Keep clear of lift while in motion.
- 2 Do not operate lift while person(s) are on lift, unless it is a Herkules-engineered operator lift.
- 3 Use only manufacturer-provided replacement parts.
- 4 Maintenance stops are used for external lubrication maintenance only, lift must be unloaded.
- 5 Do not exceed rated load capacity.
- 6 This lift system was designed for a specified application. Personal injury and/or property damage may result if used outside of the original specification.
- 7 If this lift system is used outside the specification, it may not include all appropriate safety devices for your application. Compliance with all Federal, State, OSHA and local laws or codes are the responsibility of the end user.

I. Tag - Operating Instructions (P/N 1006355) Back

 **Warning:**

- 1 Lift can fail if damaged, misused, or overloaded. Use only if trained.
- 2 Death or injury can occur from improper use or care.
- 3 Inspect before use and observe rated load to avoid death or personal injury.
- 4 Always keep lift system free of all obstructions and debris.
- 5 Non-portable systems must be anchored to the ground with proper lag bolts; failure to do so could cause system to tip or fall, resulting in serious injury, property damage, or death.
- 6 Never, for any reason, put limbs or other body parts inside the lift unless safety/maintenance stops are properly engaged and overhead rigging is used.
- 7 Do not alter or modify any part of equipment.
- 8 Never use a damaged lift. Immediately remove damaged lifts from service until repairs are made.

II. Tag - Operating Instructions - Air (P/N 1006356)

 **Caution:**

- 1 Do not use an air supply with pressure exceeding 120 PSI.
- 2 Do not continue to push control lever after lift is fully raised, even though safety valve will prevent over-inflation of air bag.
- 3 Always use a clean, dry air supply that is properly filtered and regulated.

II. Tag - Operating Instructions - Air (P/N 1006356)

 **Warning:**

- 1 Do not modify the pressure relief valve system.
- 2 Replace the pressure relief valve with a Herkules-supplied valve annually.
- 3 Regularly inspect air bags and valves for damage. Damaged components could cause sudden failure of the lift system. Worn or damaged components should be replaced immediately with manufacturer-provided parts.

Installation:

- 1 Locate lift on a level surface. If lift is not level shim lift table to a level position.
Note: It is recommended that grout or some other solid material be placed under the lifts to ensure that no bending or warping takes place between shims.
- 2 Anchor each lift to floor using 1/2" bolts from anchor kit (6 bolts per lift)
See Instruction Sheet P/N 1004985 that comes with anchor kit for installation instruction.
- 3 Each bolt should receive a 4" x 4" x 1/4" plate to be used as a washer between the nut and concrete or corrugated portion of the basement ceiling.
- 4 Anchor each ramp to floor using 1/2" bolts from anchor kit (6 bolts per lift)
See Instruction Sheet P/N 1004985 that comes with anchor kit for installation instruction.
- 5 Place control pedestal in desired location and anchor to floor. (Floor hardware not included)
- 6 Assemble the Pressure Relief Tee, use pipe tape at all connections. (See Fig. 1)
*Note: A steel nipple will need to be secured to the bottom lift plate this must be 1/2-NPT
A length of hose along with the supplied hose barb may be substituted if desired.*
- 7 The Pressure Relief Tee must not be more than 18" away from the air bag.
Note: Exceeding the 18" distance may result in injury to operator and/or equipment damage
- 8 Connect 1/2" air hose from each lift to the 1/2" hose barbs on the bottom of the control valves and secure using the hose clamps provided in parts box.
Note: If hoses are to be trimmed, equal amounts of hose will need to be trimmed from each lift.
- 9 Always allow the same distance of hose to each lift; this will keep the lifts running in tandem.
Note: Loop hoses in remote location to keep same length of hose if necessary.
- 10 Connect main air supply to the control pedestal.
- 11 Engine of vehicle must be placed over the air bag portion of the lift.

Installer supplied components:

DESCRIPTION	QTY.	UNITS.
QUANTITY GIVEN FOR 1 SYSTEM		
PLATE 4 X 4 X 1/4 HRS	12	EA

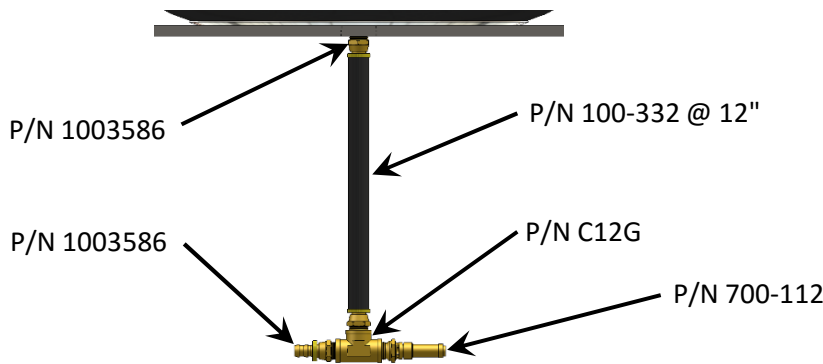
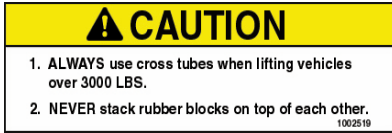


Fig. 1

Operation:

- 1 Herkules recommends using cross tubes in every lifting application. However vehicles weighing less than 3000 LBS can be lifted without the use of the cross tubes
- 2 Once vehicle is over lift, slide cross tube into position between both lifts. 2-4 rubber lifting blocks need to be placed on cross tubes at the preferred lifting positions of the vehicle.
 - a) ALWAYS use cross tubes when lifting vehicles over 3000 LBS
 - b) DO NOT stack rubber blocks on top of each other.



- 3 If operator cannot align lifting blocks to the vehicle frame, due to a large gap between cross tubes and vehicle. Raise the lift slightly to decrease the gap then align the rubber blocks.
- 4 Raise the lift by pressing both levers on the control pedestal to the up position. Release the levers once the vehicle is at the desired height.

Note: Both levers need to be pressed together for both lifts to go up in tandem. By pressing only one lever, only the corresponding lift will go up.
- 5 To lower the lift pull both levers to on the control pedestal to the down position.

Note: Both levers need to be pressed together for both lifts to go down in tandem. By pressing only one lever, only the corresponding lift will go down.

Maintenance:

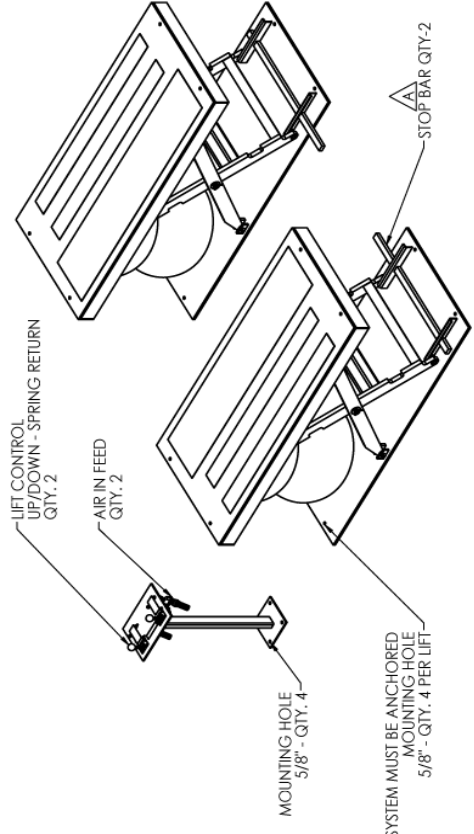
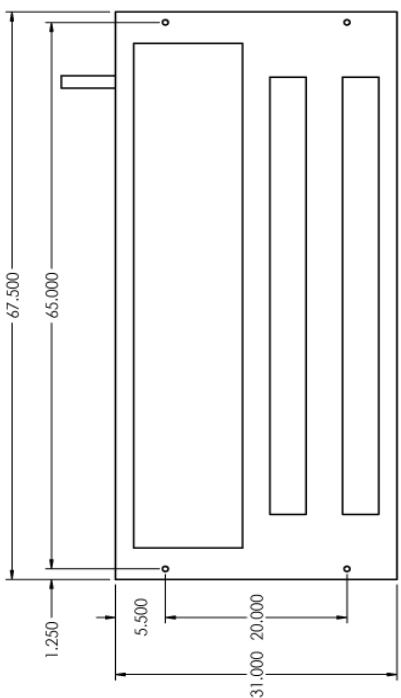
- 1 Check clamps and hose connections periodically for tightness to prevent air leakage.
- 2 Make sure all moving parts are clean and unobstructed of foreign objects.
- 3 Clean filter element every 3 months if applicable
- 4 Grease and oil pivot points once every 3 months.
Lubricate daily if lift is in high cycle application
- 5 Use 90-weight gear lube (SAE 85W 140 EP) to lubricate the pivots and shafts once every 3 months or as needed.
- 6 Grease the upper and lower wheel channels.
- 7 Lubricate lock mechanism pivot points.
- 8 Use overhead rigging when anything beyond external lubrication is required

Replacement Parts:

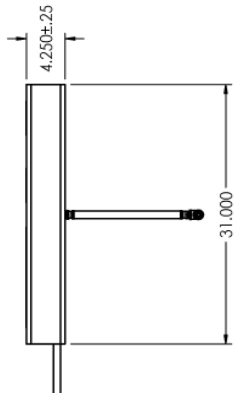
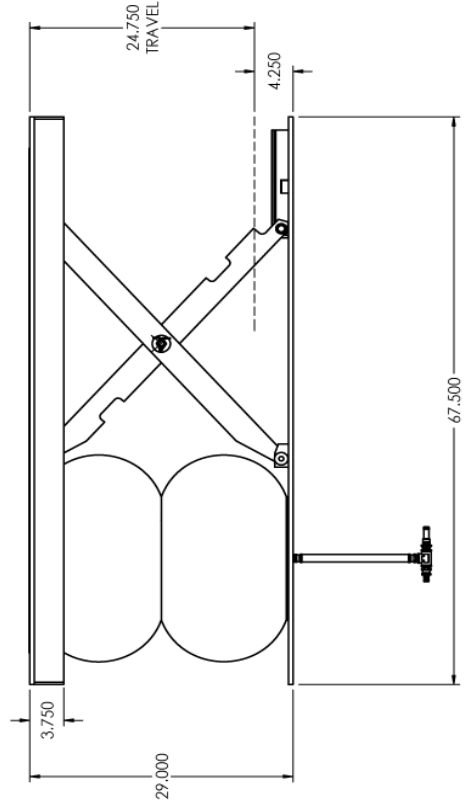
Part No.	Description	Quantity	
16312	PLATE BOTTOM WELDMENT 31 X 67-1/2	2	EA
16315	SCISSOR INNER WELDMENT 26 X 39	2	EA
16314	SCISSOR OUTER WELDMENT 29 X 39	2	EA
16313	PLATE TOP WELDMENT 31 X 67-1/2	2	EA
1002627	PIN .750 OD X 2.125 CRS	8	EA
1006520	WASHER SHIM .75ID X 1.12OD X .02	8	EA
001-705	WASHER FLAT 1/4 USS	8	EA
1000116	BOLT HEX 1/4-20 X 5/8 GD 5 Z	8	EA
009-125	WASHER 2 OD X .8125 ID Z 3/4 USS Z	8	EA
1002473	WASHER FLAT 3 OD X 1.313 ID X .1 Z	4	EA
12125	BOLT ASSY DRILLED FOR V-960	4	EA
1001480	NUT SLOTTED HEX 5/8-11 Z	4	EA
1001481	COTTER PIN 5/32 X 1.25 ZINC	4	EA
1002626	TUBE 1.248 OD X .75 ID X 2.10 CRS	4	EA
16316	WHEEL ASSY 1.565 OD X .87 ST	8	EA
300-001	AIR BAG - K-900	2	EA
1003586	HOSE BARB PTL 1/2 X 1/2 NPT	6	EA
100-332	HOSE 1/2" PUSH TO LOK	12	IN
100-332	HOSE 1/2" PUSH TO LOK	12	IN
C12G	TEE 1/2 NPT BRASS	2	EA
700-112	VALVE PRES RELIEF 1/2 NPT 3.5 BAR	2	EA
1002882	STICKER DANGER NO HAND/LEG UNDERTOP	4	EA
1004676	STICKER PITBOSS/CAPACITY/WARNING	4	EA
1000070	DECAL HERKULES 1.1875 X 7	4	EA
16318	CONTROL MOUNT ASSY VERT 2X LIFT W/EXH	1	EA
100-332	HOSE 1/2" PUSH TO LOK	144	IN
100-332	HOSE 1/2" PUSH TO LOK	144	IN
1006355	TAG OPERATING INSTRUCTIONS (GENERAL)	1	EA
1006356	TAG OPERATING INSTRUCTIONS (AIR)	1	EA
1004743	CROSS TUBE WELDMENT ALUMINUM	2	EA
15020	HEIGHT EXTENDER WLDMT 4 X 6 X 6 ST	4	EA
1006207	BLOCK RUBBER 3-3/4 X 4-3/4 X 6-3/16	4	EA
1006958	RAMP 17-1/4 X 31 X 4-1/4 ST	4	EA
16339	SAFETY BAR 3/4 X 1-1/2 X 36 ST	2	EA
16547	KIT ANCHOR WEDGE FOR LSA29 TANDEM LIFT	1	EA
1006323	STICKER BOX LIFT MODEL & SERIAL	1	EA
1002205	TAPE 4" NON-SLIP	52	IN
1002205	TAPE 4" NON-SLIP	52	IN
1002205	TAPE 4" NON-SLIP	52	IN
1002205	TAPE 4" NON-SLIP	52	IN
1002534	TAPE 12" NON-SLIP BLACK AND YELLOW	60	IN
1002534	TAPE 12" NON-SLIP BLACK AND YELLOW	60	IN

REF: T0018

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	STOP BARS ADDED	5/21/2015	LPD



SYSTEM MUST BE ANCHORED TO MOUNTING HOLE 5/8" - QTY. 4 PER LIFT



LIFT SPECIFICATIONS

- SYSTEM: 10,000 LBS. LIFT: 5,000 LBS
- CAPACITY: HAND
- CONTROLLER: PEDESTAL
- CONTROLLER MOUNT: NONE
- INTERNAL VALVE: 1/2" MINIMUM
- AIR FEED LINE: 12 FEET
- CONTROLLER HOSE: NONE
- SKIRT: RED
- COLOR: LIFT: RED, PEDESTAL: RED
- SAFETY FEATURES: MAINTENANCE STOP BOLT - QTY. 2

NOTE: ADD SEVEN INCHES TO BASE MODULE DIMENSIONS FOR BELLOWS SKIRTING

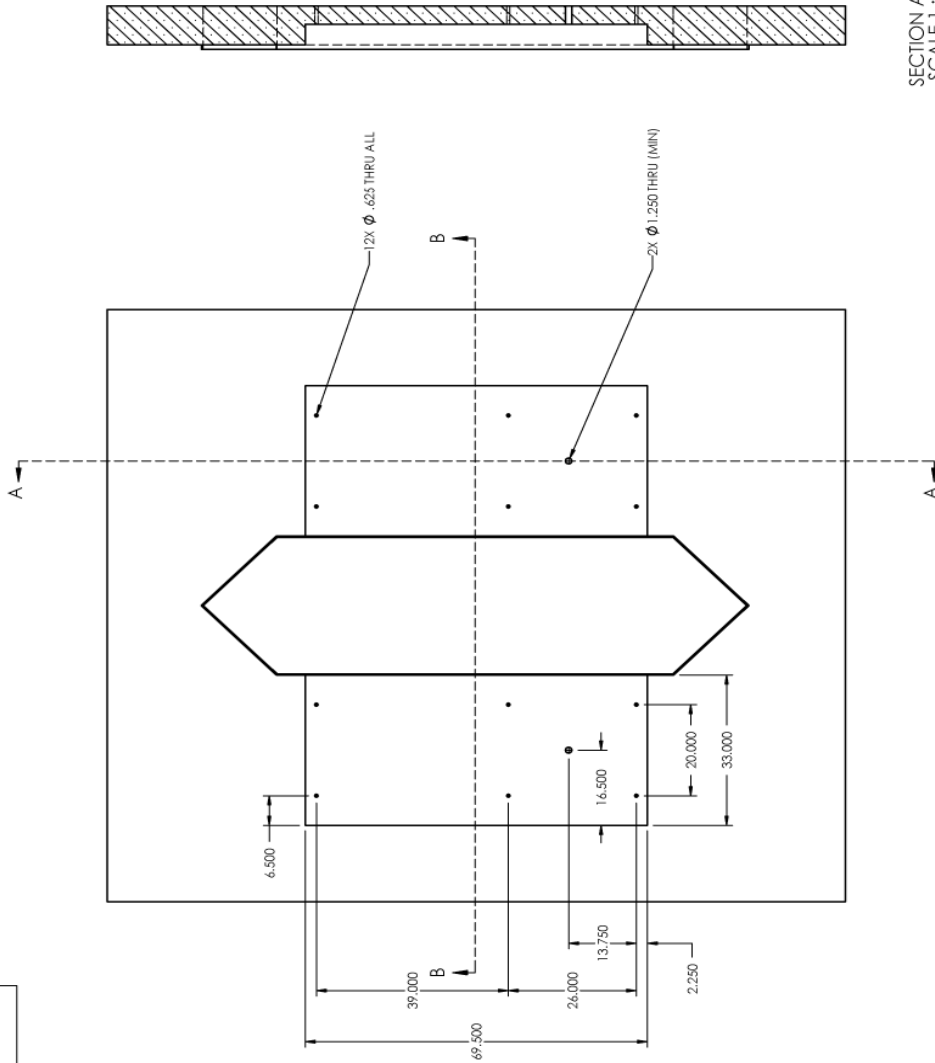
hercules
 2740 RIDGEWAY COURT • WAUWATONA, WI 53095
 TEL: USA 29-100-29-3168-2

TOLERANCES UNLESS OTHERWISE NOTED:
 X + .25
 XX + .125
 XXX + 0.050
 XXXX + 0.020
 ANGLE ± 1°

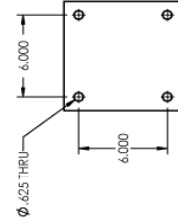
DRN: SW 4/28/2015 (REVISED)
 PART: T0018 (REV. 5/21/2015)
 SHEET: 1 OF 1

CONFIDENTIAL
 THE INFORMATION CONTAINED ON THIS DRAWING IS SOLELY CONFIDENTIAL AND PROPRIETARY TO HERCULES EQUIPMENT CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF HERCULES EQUIPMENT CORPORATION IS PROHIBITED AND MAY BE IN VIOLATION OF APPLICABLE LAWS.

PART #:



SECTION A-A
SCALE 1 : 24



SECTION B-B
SCALE 1 : 24



- NOTES:
1. LOCATE LIFT ON A LEVEL SURFACE.
 2. ANCHOR LIFT TO FLOOR USING 1/2" WEDGE ANCHORS (6 PER LIFT).
 3. THE INSTALLATION DRAWING IS SHOWN USING A 30" PIT WIDTH AS A MODEL.
 4. PLACE CONTROL PEDESTAL IN DESIRED LOCATION AND ANCHOR TO THE FLOOR.
 5. DIMENSIONS FOR PIT INCLUDE A 1" CLEARANCE AROUND THE LIFT MODULE.
 6. THE (QTY. 2) 1-1/4" HOLES ARE USED FOR ROUTING AIR LINES THROUGH THE FLOOR INTO THE BASEMENT FOR EACH LIFT.
 7. IF ANCHOR BOLTS CANNOT BE USED, THE LIFT MUST BE ANCHORED THROUGH THE CONCRETE FLOOR WITH A MINIMUM OF 4" X 4" X 1/4" PLATE USED AS A BACKING PLATE TO THE CONCRETE.
 8. SURFACE MOUNT HAS SAME MOUNTING PATERN.
 9. INSTALLER TO PROVIDE THE FOLLOWING:
 1. NIPPLE 1/2 NPT X (DISTANCE OF CONCRETE) - QTY. 2.
 2. ANY COVER PLATES NEEDED.
 3. LAG HARDWARE FOR PEDESTAL.

herculesTM

230 PROCONWAY COURT WILLEDGE LAKE, IN 46394-1662

THE INFORMATION CONTAINED ON THIS DRAWING IS BOTH CONFIDENTIAL AND PROPRIETARY. IT IS THE SOLE PROPERTY OF HERCULES EQUIPMENT CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF HERCULES EQUIPMENT CORPORATION IS PROHIBITED AND MAY BE UNLAWFUL.

TOOLERANCES UNLESS OTHERWISE NOTED:

X + .250
 XX + .125
 XXX ± 0.030
 XXXX ± 0.020
 ANGLE ± 1°

DATE: SW 10/27/2015 MATERIAL: 10018 PIT MOUNT INSTALLATION LAYOUT

REV #:

CHG NO.:

REV:

SHEET 1 OF 1