

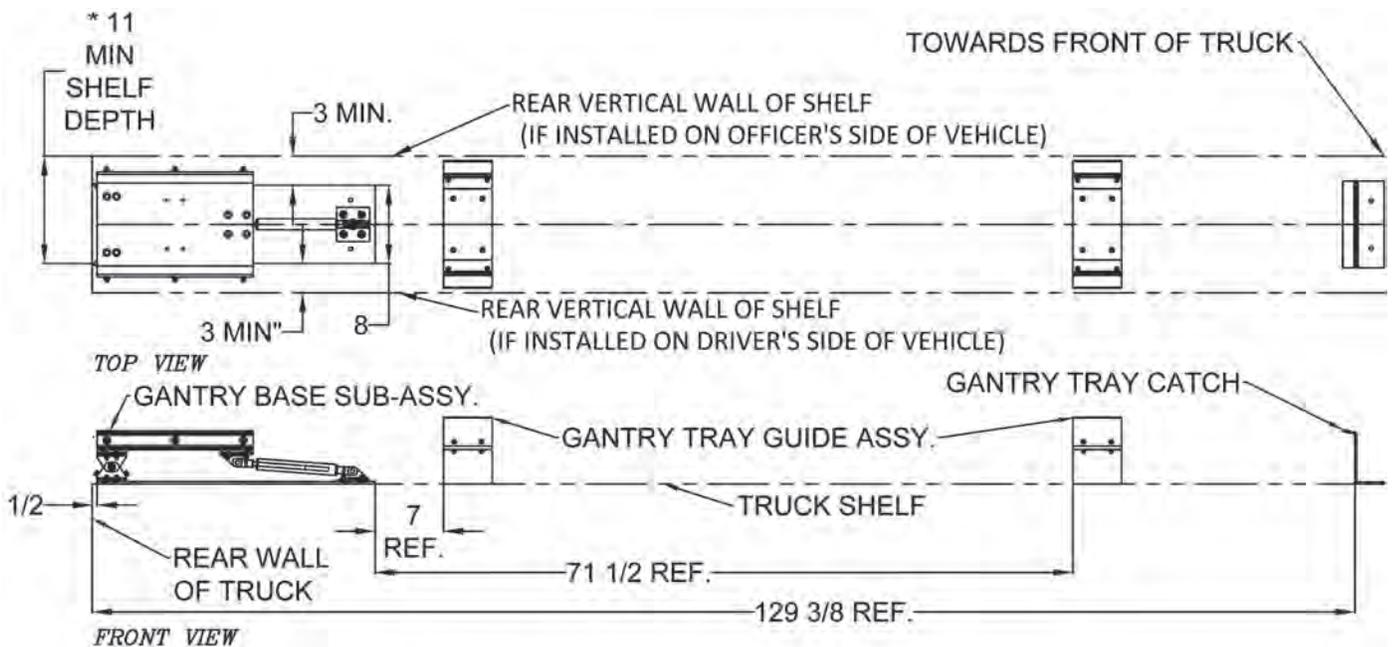
**HARD SLEEVE GANTRY SYSTEM
MODEL HSG-1
PARTS AND INSTRUCTION MANUAL**



Features:

- Makes hard sleeve retrieval a one-person operation--no climbing & no dropped sleeves
- Sleeve slides out and tilts down for easy removal with reduced risk of injury to personnel
- Maximum load: 100 lbs.

| MODEL | DESCRIPTION | WT./@ IN LBS. |
|------------|--|------------------|
| HSG-1-O-10 | Complete unit for 10' hard sleeve - officer's side | 93.0 |
| HSG-1-D-10 | Complete unit for 10' hard sleeve - driver's side | 93.0 |
| HSG-LB-C | Circular light base | 3.40 |
| HSG-LB-R | Rectangular light base | 4.35 |



* AT MIN. SHELF DEPTH, THERE WILL BE A MAX. 2 1/2 OVERHANG OF THE GANTRY TRAY GUIDE.

Figure 1

Gantry Overall Dimensions

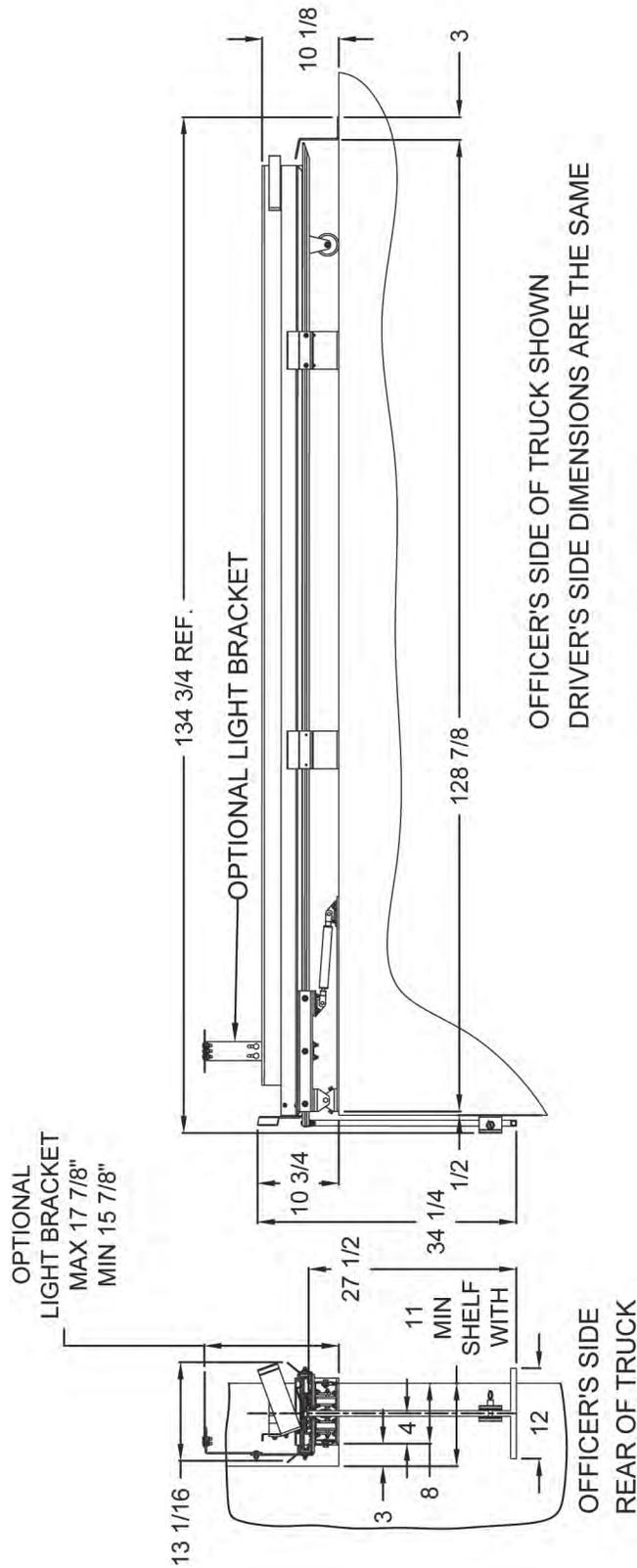


Figure 2

Gantry Mounted Dimensions

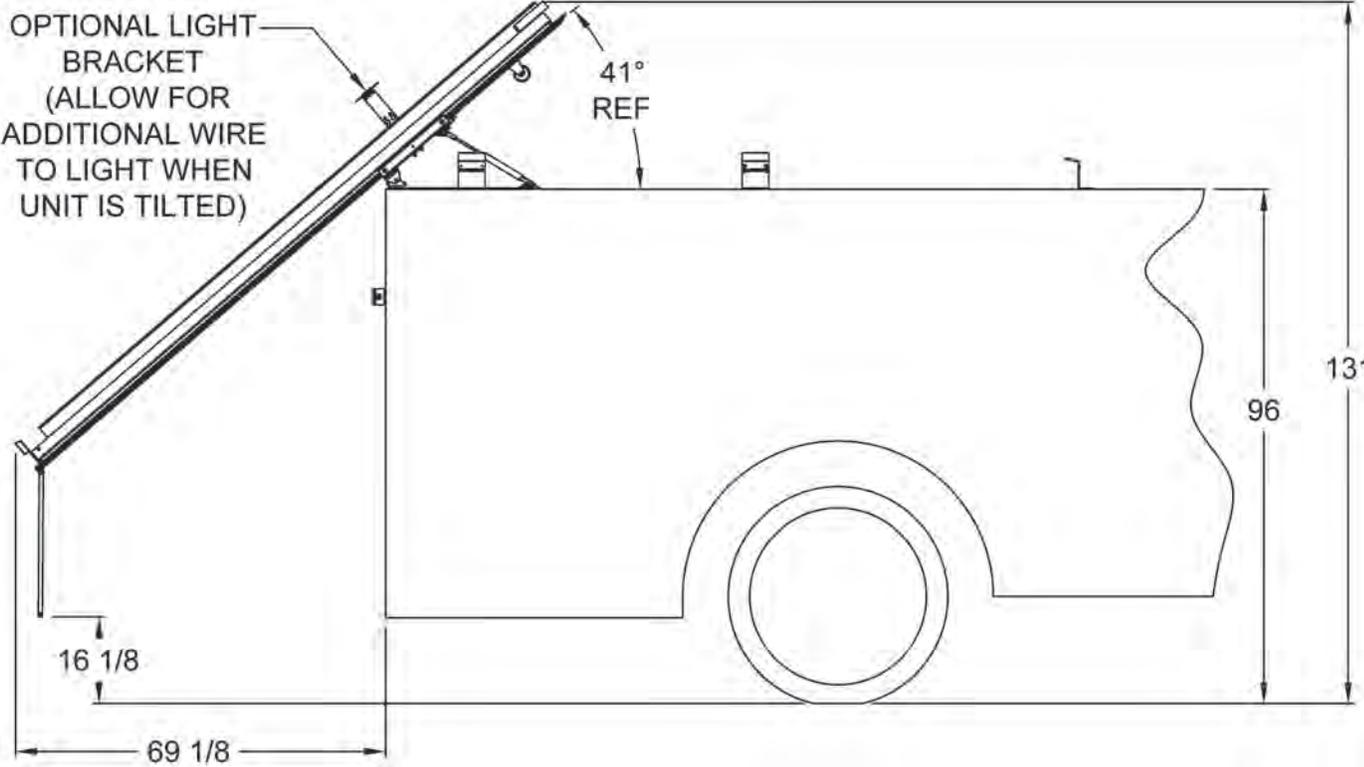
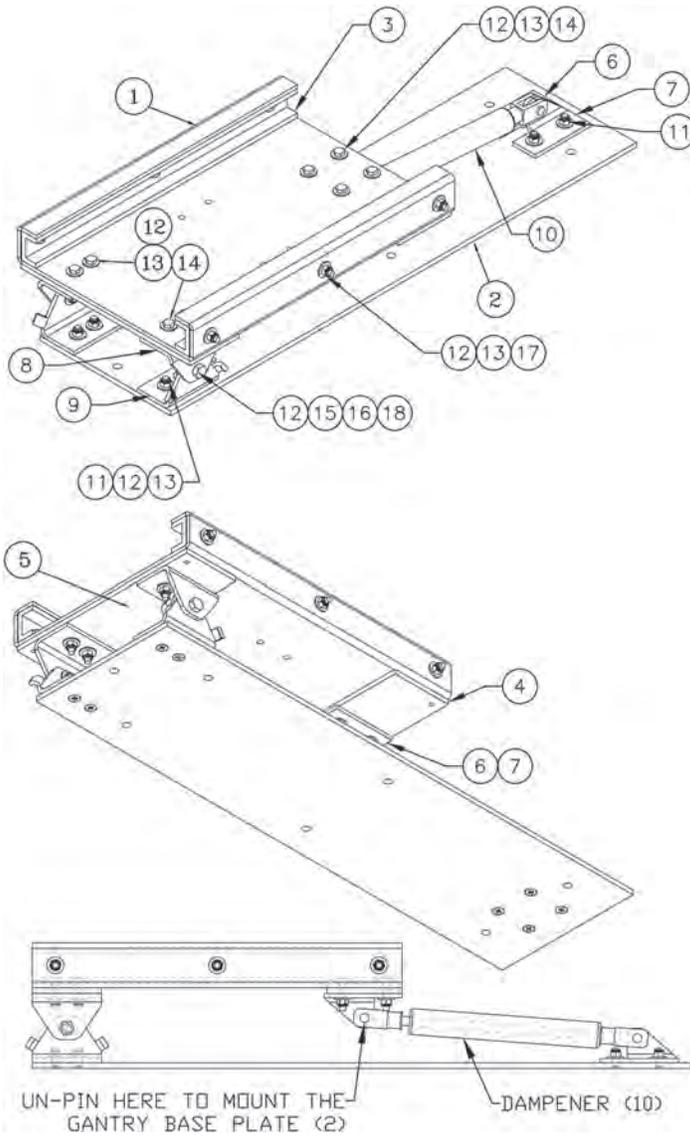


Figure 3

Parts Diagram/Breakdown - Gantry Base Sub-Assembly



| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|--------------|--|------|
| 1 | 3093-400-121 | Gantry Tray Receiver | 1 |
| 2 | 3093-400-123 | Gantry Base Plate | 1 |
| 3 | 3093-400-125 | Gantry Tray Wear Channel | 2 |
| 4 | 3093-400-127 | Gantry Tray Stiffener Upper | 1 |
| 5 | 3093-400-129 | Gantry Tray Stiffener Lower | 1 |
| 6 | 3093-400-131 | Gantry Dampener Bracket Right | 2 |
| 7 | 3093-400-133 | Gantry Dampener Bracket Left | 2 |
| 8 | 3093-400-135 | Gantry Tray Pivot | 2 |
| 9 | 3093-400-137 | Gantry Tray Pivot with Tabs | 2 |
| 10 | 3093-400-139 | Dampener, 60lb | 1 |
| 11 | 9010-162514 | 1/4-20 x 7/8 Flat Head ZPS | 8 |
| 12 | 9014-112500 | 1/4 Flat Washer | 32 |
| 13 | 9013-172500 | 1/4-20 Nyloc Nut | 22 |
| 14 | 9010-102520 | 1/4-20 x 1 1/4 Hex Head ZPS | 8 |
| 15 | 9010-313708 | 3/8 x 1/2 Shoulder Bolt, 1/4-20 Thread ZPS | 2 |
| 16 | 9013-172501 | 1/4-20 Nyloc Nut/Low Profile | 2 |
| 17 | 9010-162516 | 1/4-20 x 1 Flat Head ZPS | 6 |
| 18 | 3093-400-153 | Nylon Washer, 3/8 ID | 2 |

Figure 4

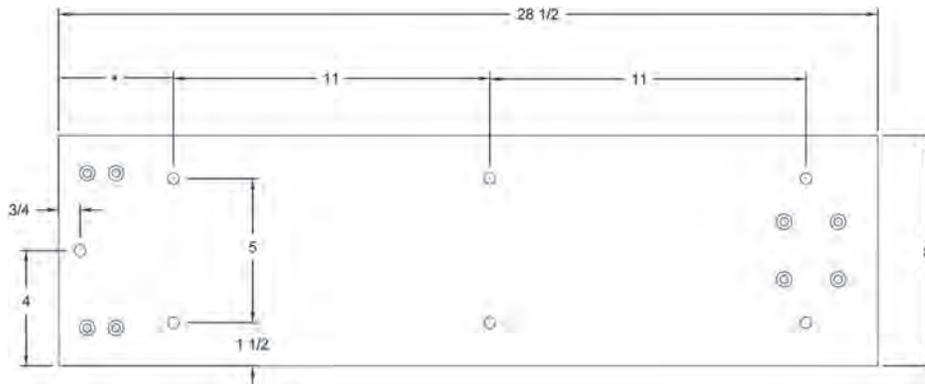


Figure 5 Gantry Base Plate (1/4" Thick)

Parts Diagram/Breakdown - Gantry Tray Guide Assembly

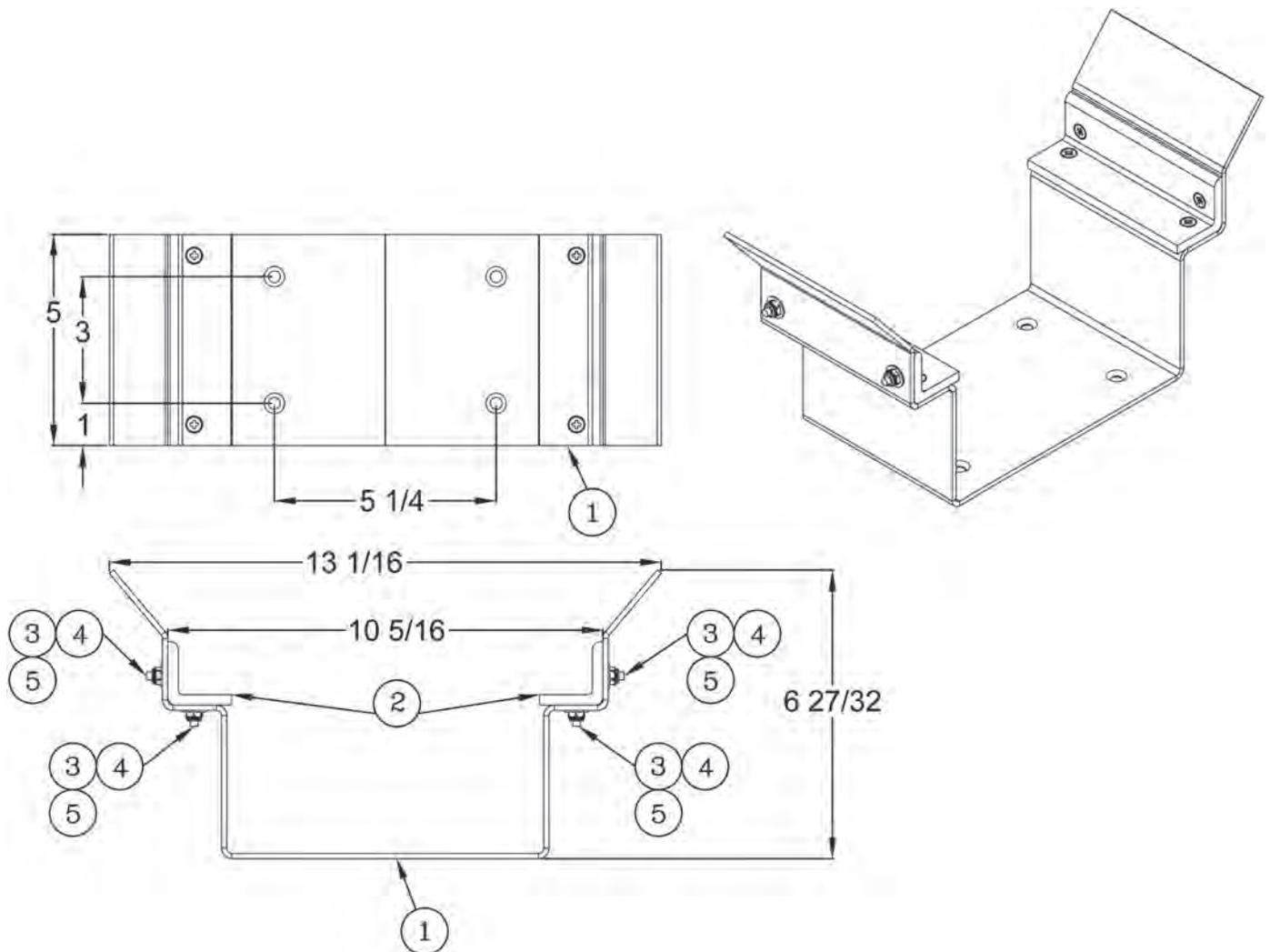


Figure 6

| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|--------------|------------------------------|------|
| 1 | 3093-400-117 | Gantry Tray Guide | 1 |
| 2 | 3093-400-119 | Gantry Tray Wear Angle | 2 |
| 3 | 9010-162012 | #10-32 x 3/4 Flat Head ZPS | 8 |
| 4 | 9014-112000 | #10 Washer | 16 |
| 5 | 9013-172000 | #10-32 Nyloc Nut/Low Profile | 8 |

Parts Diagram/Breakdown - Gantry Tray Assembly (Officer's Side)

| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|--------------|---|------|
| 1 | 3093-400-101 | Gantry Main Rail | 1 |
| 2 | 3093-400-103 | Hard Suction Tray for Gantry, Officer Side | 1 |
| 4 | 3093-400-107 | Gantry Wheel Bracket for 3" Wheels | 1 |
| 6 | 3093-400-111 | Gantry Hose Catch | 1 |
| 7 | 3093-400-113 | Black 3" Wheel 3/8" Axle | 2 |
| 8 | 3093-400-115 | Gantry Hose Stop | 1 |
| 9 | 9110-362514 | Screw, 1/4-20 x 7/8 Flat Socket Head, SS | 16 |
| 12 | 9114-112500 | Washer 1/4" Nom. SS | 18 |
| 13 | 9113-172500 | Lock Nut, 1/4-20, SS | 18 |
| 14 | 9010-623726 | 3/8 x 1-5/8 Shoulder Bolt, 1/4-20 x 3/4 Thd | 2 |
| 15 | 3093-400-147 | Gantry Tray Stop Bracket | 1 |
| 16 | 9010-573125 | Full Threaded Stud 5/16-18 x 1 1/2" ZPS | 2 |
| 17 | 9014-203100 | 5/16 Lock Washer ZPS | 2 |
| 18 | 1027-105-133 | Red Cylinder Stop, 5/16-18 | 2 |
| 19 | 9012-113100 | 5/16 Nut ZPS | 2 |
| 21 | 3093-400-151 | Pad with Tape | 1 |
| 22 | 3099-850-105 | Strap, Variable, SAHS-VS25-11 | 2 |
| 23 | 3099-000-013 | Footman's Loop, 2" | 4 |
| 24 | 9110-162010 | Screw, #10-32 x 5/8 FH PHIL., SS | 8 |
| 25 | 9113-172000 | Lock Nut, #10-32, SS | 8 |

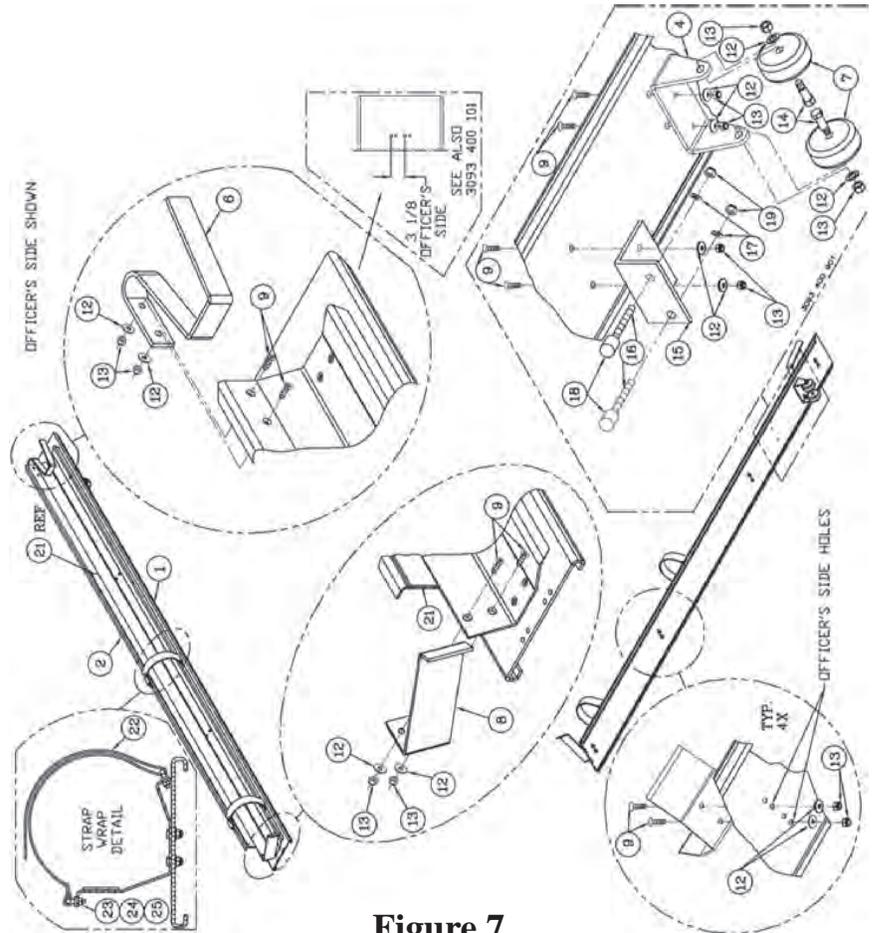


Figure 7

Parts Diagram/Breakdown - Gantry Tray Assembly (Driver's Side)

| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|--------------|---|------|
| 1 | 3093-400-101 | Gantry Main Rail | 1 |
| 2 | 3093-405-103 | Hard Suction Tray for Gantry, Driver's Side | 1 |
| 4 | 3093-400-107 | Gantry Wheel Bracket for 3" Wheels | 1 |
| 6 | 3093-400-111 | Gantry Hose Catch | 1 |
| 7 | 3093-400-113 | Black 3" Wheel 3/8" Axle | 2 |
| 8 | 3093-400-115 | Gantry Hose Stop | 1 |
| 9 | 9110-362514 | Screw, 1/4-20 x 7/8 Flat Socket Hd, SS | 16 |
| 12 | 9114-112500 | Washer 1/4" Nom. SS | 18 |
| 13 | 9113-172500 | Lock Nut, 1/4-20, SS | 18 |
| 14 | 9010-623726 | 3/8 x 1-5/8 Shoulder Bolt, 1/4-20 x 3/4 Thd | 2 |
| 15 | 3093-400-147 | Gantry Tray Stop Bracket | 1 |
| 16 | 9010-573125 | Full Threaded Stud 1/40-20 x 1 1/2" ZPS | 2 |
| 17 | 9014-203100 | 5/16 Lock Washer ZPS | 2 |
| 18 | 1027-105-133 | Red Cylinder Stop, 5/16-18 | 2 |
| 19 | 9012-113100 | 5/16 Nut ZPS | 2 |
| 21 | 3093-400-151 | Pad with Tape | 1 |
| 22 | 3099-850-105 | Strap, Variable, SAHS-VS25-11 | 2 |
| 23 | 3099-000-013 | Footman's Loop, 2" | 4 |
| 24 | 9110-162010 | Screw, #10-32 x 5/8 FH PHIL., SS | 8 |
| 25 | 9113-172000 | Lock Nut, #10-32, SS | 8 |

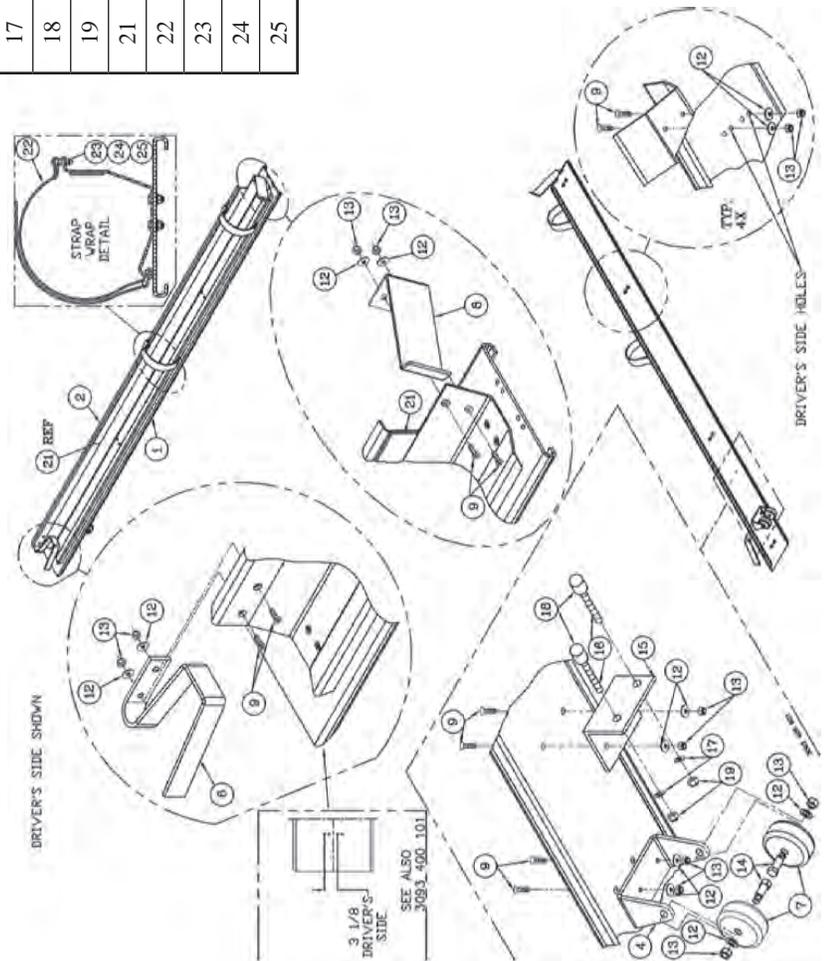
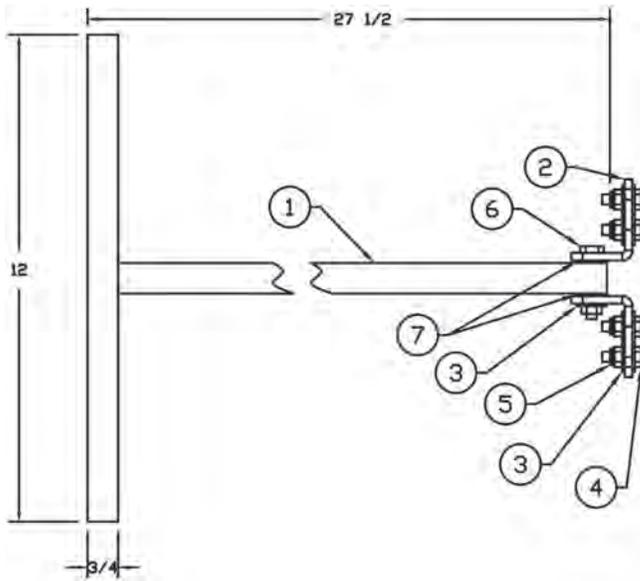


Figure 7A

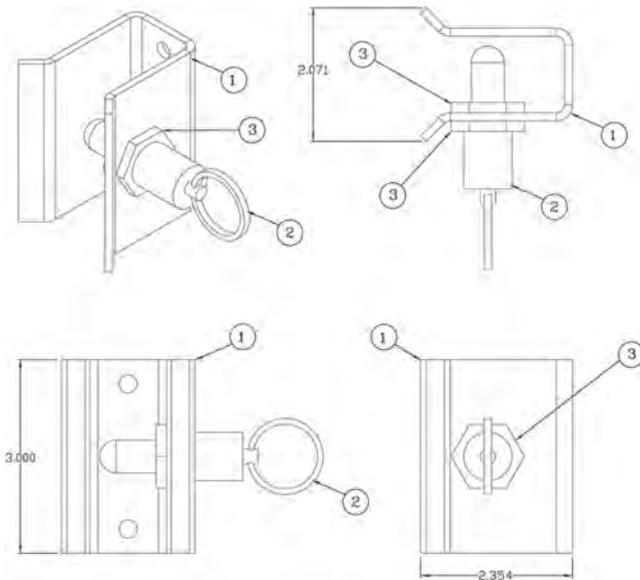
Parts Diagram/Breakdown - Gantry Handle Sub-Assembly



| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|--------------|---|------|
| 1 | 3093-400-109 | Gantry Pull Handle | 1 |
| 2 | 3093-400-105 | Gantry Pull Bracket | 2 |
| 3 | 9014-112500 | Washer 1/4" Nom. | 5 |
| 4 | 9010-102516 | 1/4-20 x 1 Hex Head ZPS | 4 |
| 5 | 9013-172500 | 1/4-20 Nylock Nut | 5 |
| 6 | 9010-313120 | 5/16 x 1-1/4 Shoulder Bolt, 1/4-20 x 3/4 Thd | 1 |
| 7 | 3093-400-153 | Nylon Washer, 3/8 ID | 2 |

Figure 8

Parts Diagram/Breakdown - Gantry Rod-Catch Sub-Assembly



| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|--------------|--|------|
| 1 | 3093-400-141 | Gantry Rod Catch | 1 |
| 2 | 3093-400-143 | Spring Loaded Latch Stainless Steel | 1 |
| 3 | 9012-107500 | Nut 3/4-16, Ultra Low Profile | 2 |

Figure 9

Dimensions - Gantry Tray Catch, P/N 3093-400-145

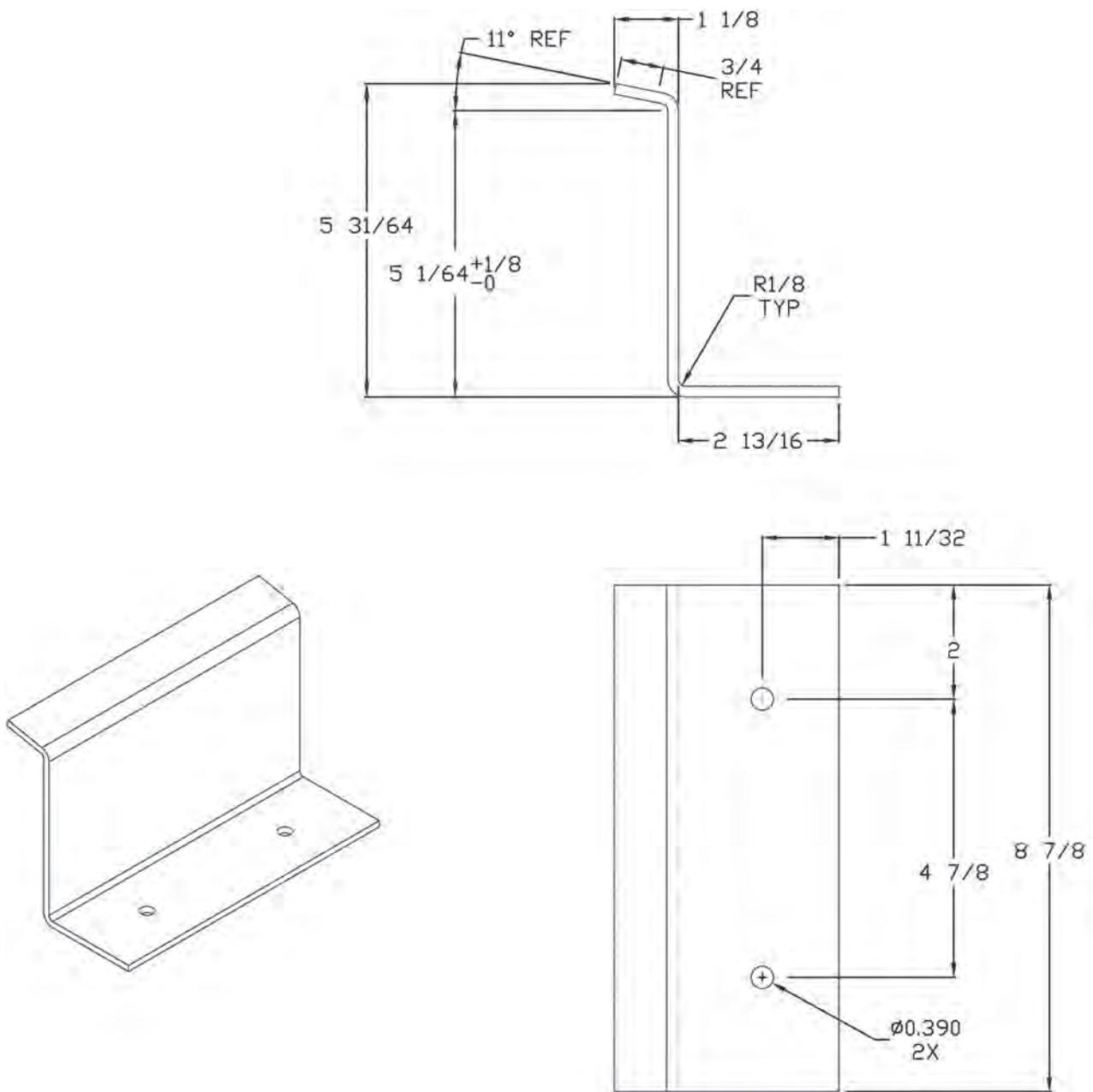


Figure 10

Parts Diagram/Breakdown - Optional Light Brackets

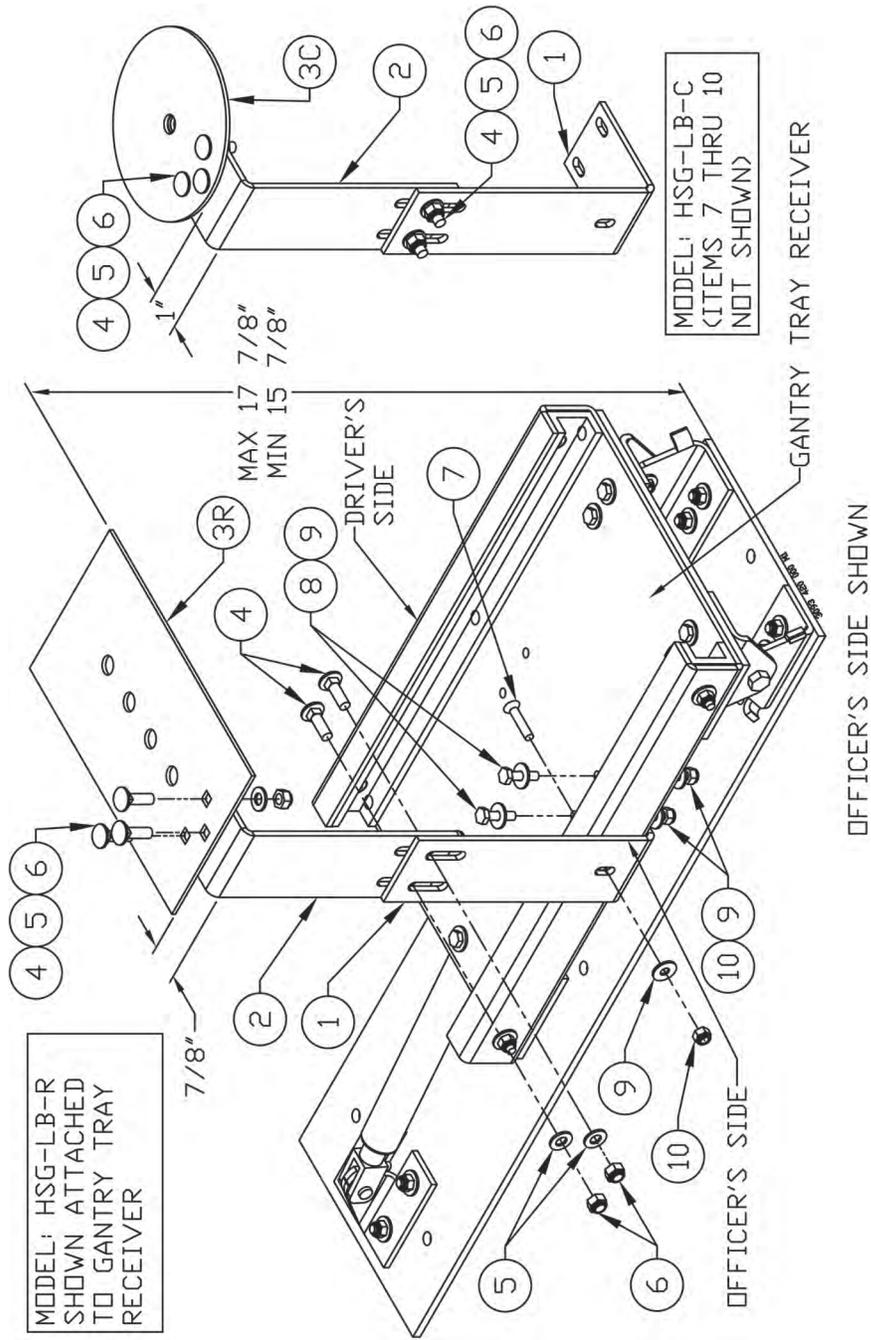


Figure 11

| ITEM | PART # | DESCRIPTION | QTY. |
|------|--------------|--------------------------------------|------|
| 1 | 3093-420-101 | Bracket, Bottom | 1 |
| 2 | 3093-420-103 | Bracket, Top | 1 |
| 3C | 3093-420-105 | Plate, Circular | 1 |
| 3R | 3093-425-105 | Plate, Rectangular | 1 |
| 4 | 9010-343116 | 5/16-18 x 1", Sq Neck (Carriage) ZPS | 5 |
| 5 | 9014-183100 | 5/16 Washer GR8 ZPS | 5 |
| 6 | 9013-173100 | 5/16-18, Nut Nylon Locking | 5 |
| 7 | 9010-162520 | 1/4-20 x 1-1/4, PHL Flat Hd, ZPS | 1 |
| 8 | 9010-102516 | 1/4-20 x 1, Hex Head | 2 |
| 9 | 9014-112500 | 1/4 Washer, Flat | 5 |
| 10 | 9013-172500 | 1/4-20 Nut, Nylon Locking | 3 |

Dimensions - Optional Light Brackets

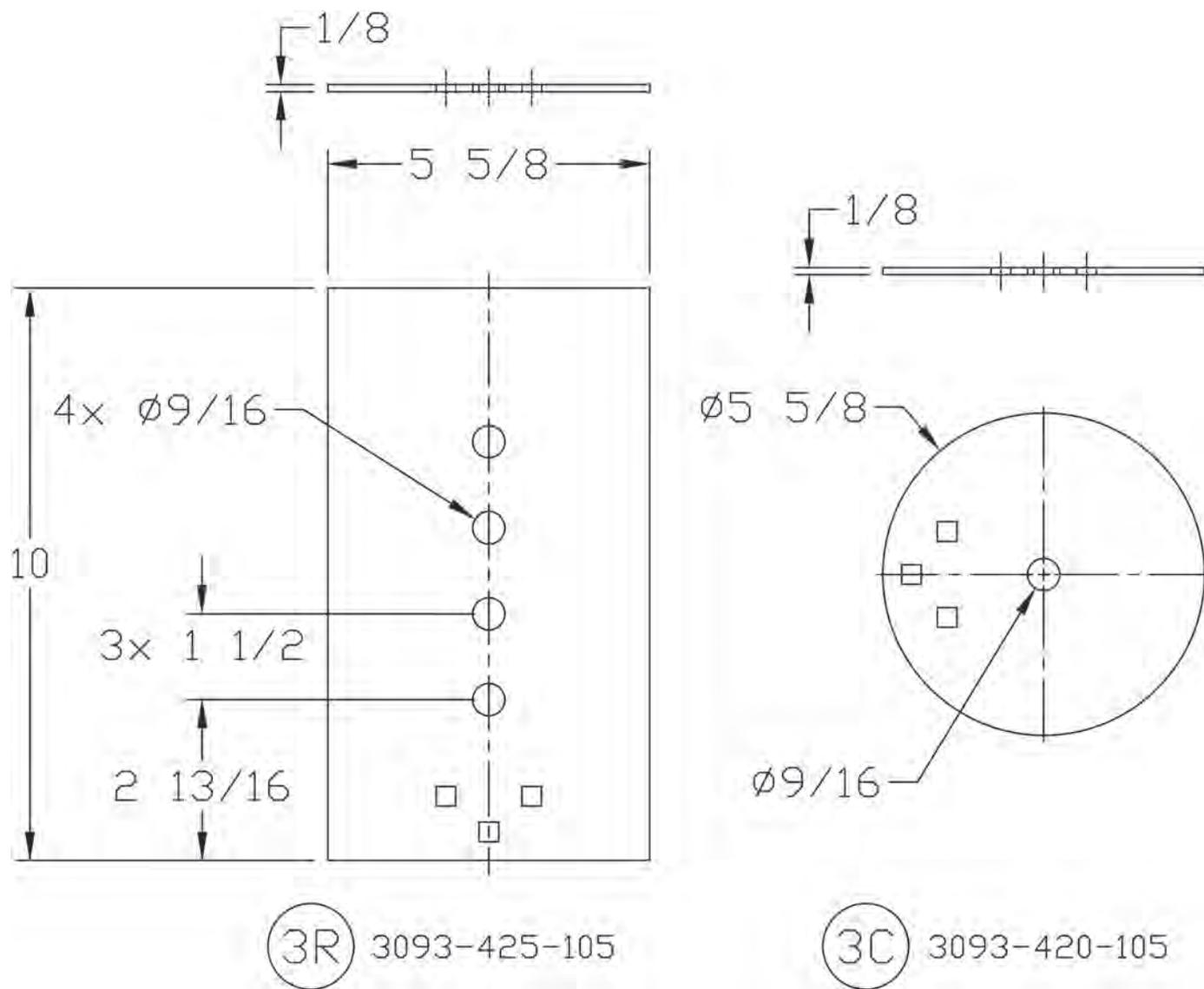


Figure 12

Mounting Instructions

WARNING: Before drilling into the apparatus body, confirm that there are no hidden wires, hydraulic/pneumatic lines, roll-up doors or other obstructions that could be damaged or cause injury during the drilling process.

WARNING: Do not paint the Gantry Main Rail (Figure 7 & 7A, Item 1). Anodizing is acceptable if color is required.

Note: If standard Pull Handle (Page 8) will not work with your vehicle specifications, a custom handle can be requested by emailing (j dj@ziamatic.com) or faxing (866-493-1401) the form on Page 14.

A. Preparing the Gantry Base Sub-Assembly

1. Position the Gantry Base Plate (Figure 1, Top View and Figure 4, Item 2) on the apparatus shelf, leaving 1/2" between Gantry Base Plate and rear lip of shelf and 3" between Gantry Base Plate and adjacent side wall.
2. Remove pin from the dampener (Figure 4, Item 10) and tilt Gantry Tray Receiver (Figure 4, Item 1) so that top of Gantry Base Plate (Figure 4, Item 2) is accessible.
3. Using the holes in the Gantry Base Plate (Figure 4, Item 2) as a template, drill six holes for 3/8" fasteners (not included). Do not fasten at this time.

Note: If installing an optional Light Bracket, see Pages 10 & 11 before beginning Gantry mounting. Keep in mind that Light Bracket will require additional wiring. To prepare installation of Light Bracket to Gantry, remove the fastener in the center of the Gantry Tray Receiver on either the Officer or Driver's side (Figure 11) and fasten Light Bracket Bottom onto Gantry Tray Receiver. The remainder of the Light Bracket assembly will be added later in the process.

4. Reattach the dampener (Figure 4, Item 10).

B. Mounting the Gantry Tray Guide and Gantry Tray Assemblies (Figure 6, 7, & 7A)

1. Following the dimensions in Figure 1, position Gantry Tray Guides (Figure 6, Item 1) on apparatus shelf.

Note: Dimensions are referenced. The Guides can be moved slightly to pickup supports or to avoid wire harnesses, etc.

2. Slide the Gantry Tray Assembly (Figure 4 or 4A) into the rear of the Gantry Tray Receiver (Figure 4, Item 1). Confirm proper alignment between Gantry Tray Receiver and Gantry Tray Guides. Remove Gantry Tray Assembly.

Mounting Instructions (continued)

3. Using holes in each Gantry Tray Guide as a template, drill four holes for 1/4" fasteners (not included). Attach Gantry Tray Guides to apparatus using 1/4" fasteners. Attach Gantry Base Plate (Figure 4, Item 2) to apparatus using 3/8" fasteners.
 4. Return Gantry Tray Assembly to Gantry Tray Receiver and Gantry Tray Guides.
- C. Mounting the Gantry Handle Assembly and Rod-Catch (Figures 8 & 9)
1. Attach Gantry Pull Brackets (Figure 5, Item 2) to the Gantry Main Rail (Figure 7 or 7A, Item 1). Handle should hang approximately perpendicular to the Gantry Main Rail, resting flush against the rear body of the apparatus.
 2. Align the Gantry Rod Catch (Figure 9, Item 1) with the Gantry Pull Handle. Position Gantry Rod Catch at your desired height.
 3. Using the holes in the Gantry Rod Catch as a template, drill two holes for 1/4" fasteners (not included). Attach Gantry Rod Catch to apparatus body using 1/4" fasteners.
- D. Mounting the Gantry Tray Catch (Figure 10)
1. With the Gantry Tray Assembly (Figure 7 or 7A) in the stored position, place the Gantry Tray Catch on the apparatus shelf, flush with the cab-end of the Gantry Main Rail (Figure 4 or 4A Item 1).
 2. Using the holes in the Gantry Tray Catch as a template, drill two holes for 3/8" fasteners (not included). Attach Gantry Tray Catch using 3/8" fasteners.
- E. Optional Light Bracket Mounting Continued (skip if not applicable)
1. Complete assembly of the Light Bracket components (Figure 11) and wire the light as per light manufacturer's recommendations.

Operation Instructions

A. Unloading Hard Sleeve

WARNING: When hard sleeve is removed from the Gantry, the Gantry Tray will spring upward slightly. Use caution when removing hard sleeve from tray.

1. Pull spring-loaded latch to release Gantry Pull Handle.
2. Standing at rear of the apparatus, pull the Gantry Pull Handle as you walk backwards. Gantry Tray Assembly will begin to tilt down as it moves through the Gantry Tray Receiver.
3. When Gantry Tray assembly is fully tilted down, remove straps from hard sleeve. Lift lower end of hard sleeve and slide freed sleeve down the Hose Tray.

B. Loading Hard Sleeve

1. Confirm that straps are clear of Hose Tray. Slide Hard Sleeve upward along the tray until it engages with the Gantry Hose Catch.
2. Rest the lower end of the hard sleeve in the tray against the Gantry Hose Stop.
3. Use straps to secure the hard sleeve in place.
4. Using the Gantry Pull Handle, lift the Gantry Tray Assembly until it is level with the apparatus shelf. Slide the Gantry Hose Tray into the Tray Receiver until contact is made with Gantry Tray Stop.
5. Secure the handle with the spring-loaded latch into the Rod Catch Assembly.



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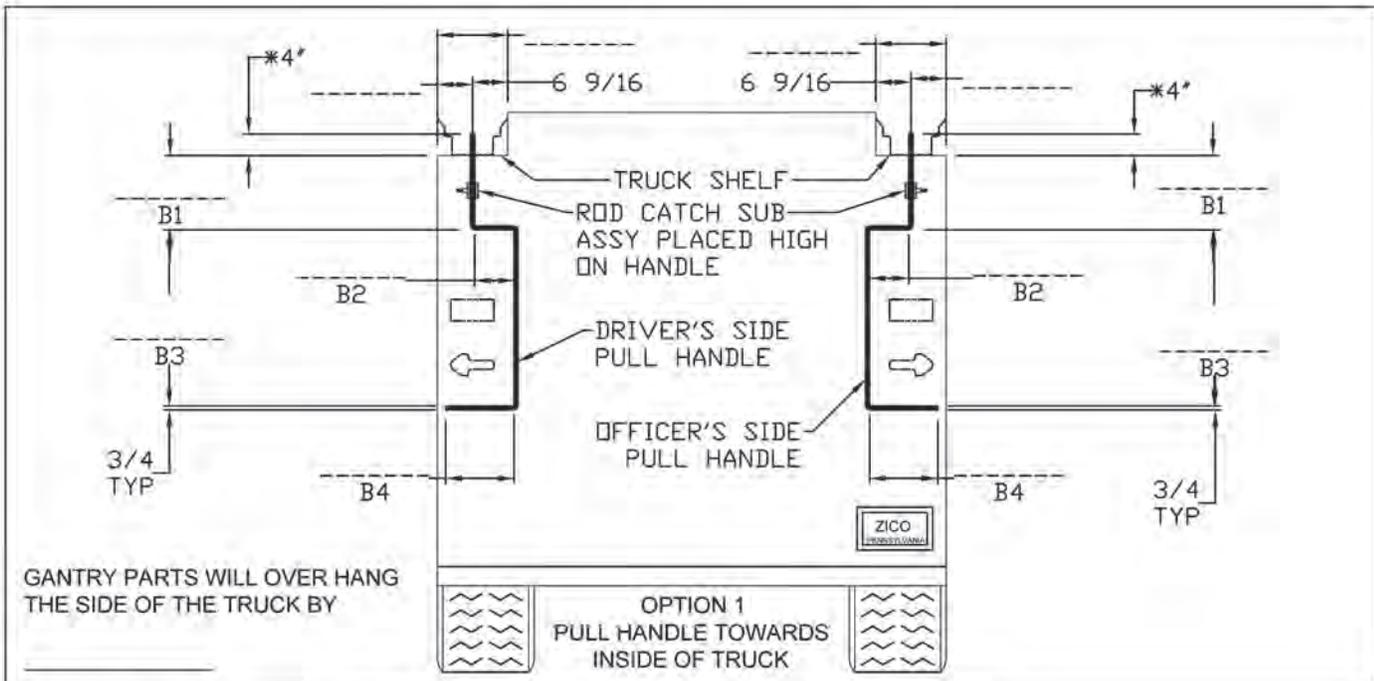
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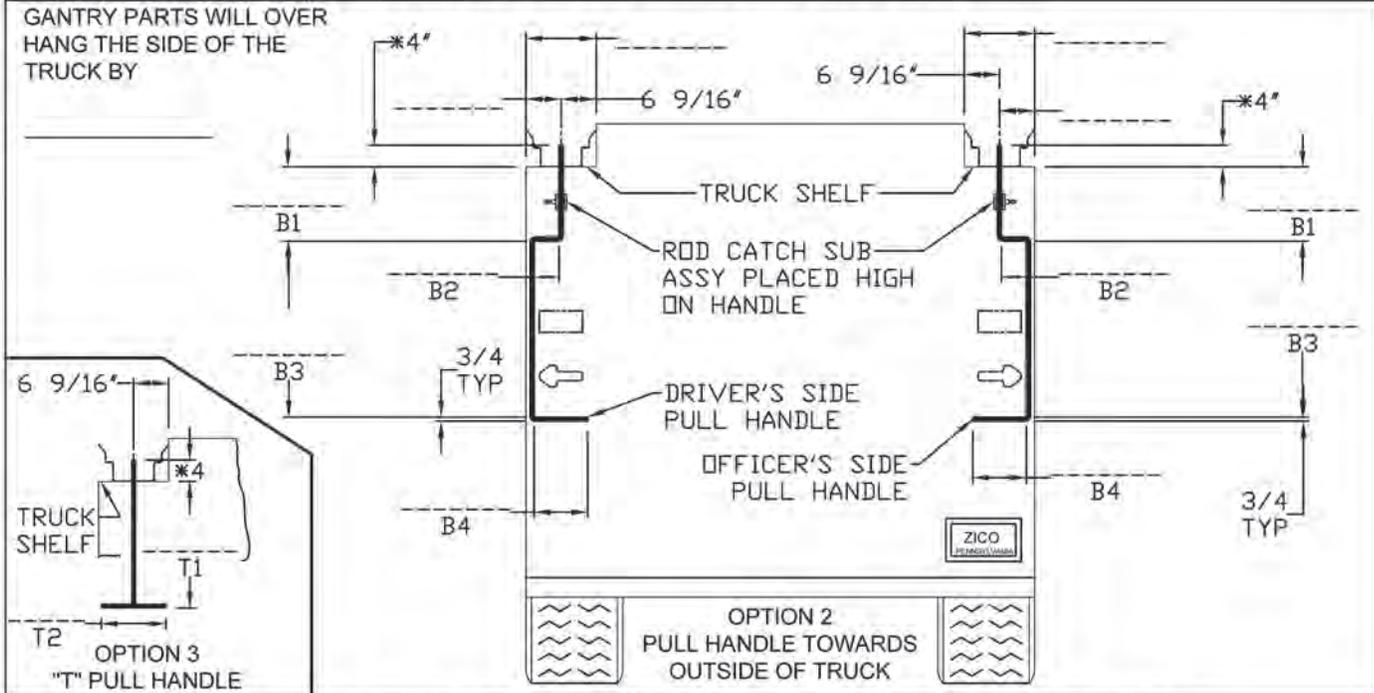
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Gantry must be placed on the shelf based on the 6 9/16" distance.

REAR OF TRUCK SHOWN IN ALL OPTIONS

DRIVER'S SIDE OFFICER'S SIDE
 DRIVER'S SIDE AND OFFICER'S SIDE



Important: The Driver's Side and Officer's Side units are different. Supply the following information for the specific side. If the truck is going to get a gantry on both sides, please specify that above.
 * 4" is the additional length needed for the handle. This is for reference only.

LIGHT: ROUND OR RECTANGULAR

LIGHT MODEL # _____

Ziamatic Manual Hard Sleeve Gantry Pull Handle Form

Approved By: _____ CO: _____

Email Address: _____

PO: _____ Date: _____

Fax: 866-493-1401 Dwg: HSG-FORM

06/10/16