

## Instructions

А

- Record the TMA serial number and each energy absorbing module serial number in the spaces provided. ٠
- Perform measurements A through H and record the values in the spaces provided. •
- Dimension limits specified are valid for both NCHRP-350 tested Scorpion TMA and MASH tested Scorpion II TMA.
- All measurements must fall within the min/max values indicated for the tube assemblies to remain in service. •
- If any measurements fall outside the acceptable limits, please consult with an appropriate Traffix Devices representative. •
- Any tube assemblies that are deemed "out of spec" must be destroyed by fully cutting the upper and lower tube. ٠
- In some cases, it may be necessary to take measurements at the bottom as well as the top if damage is observed on the lower portion of the ٠ tube assemblies. Both top and bottom measurements must fall within the min/max values defined.

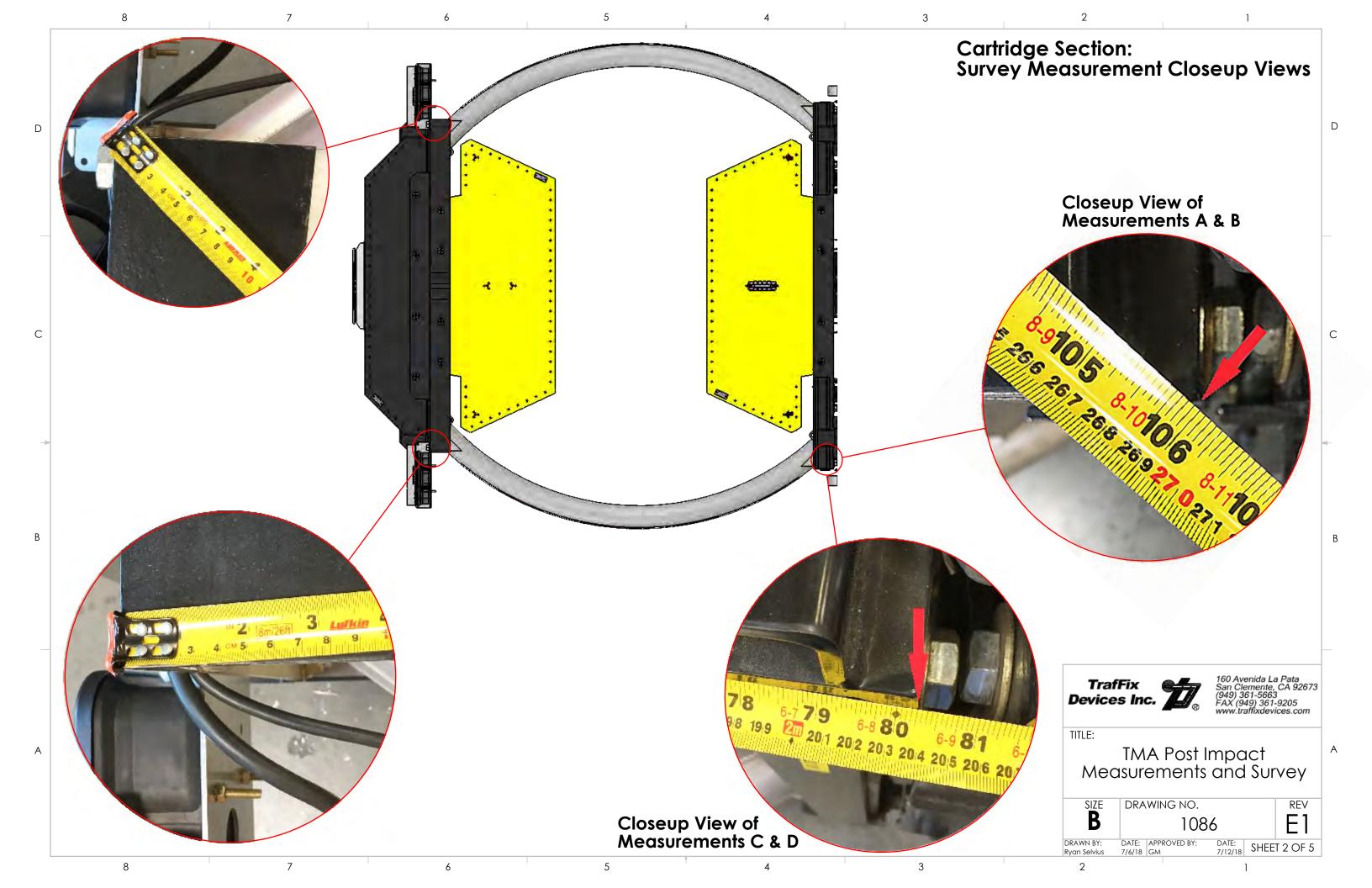
8	7	6	5	1 4	3

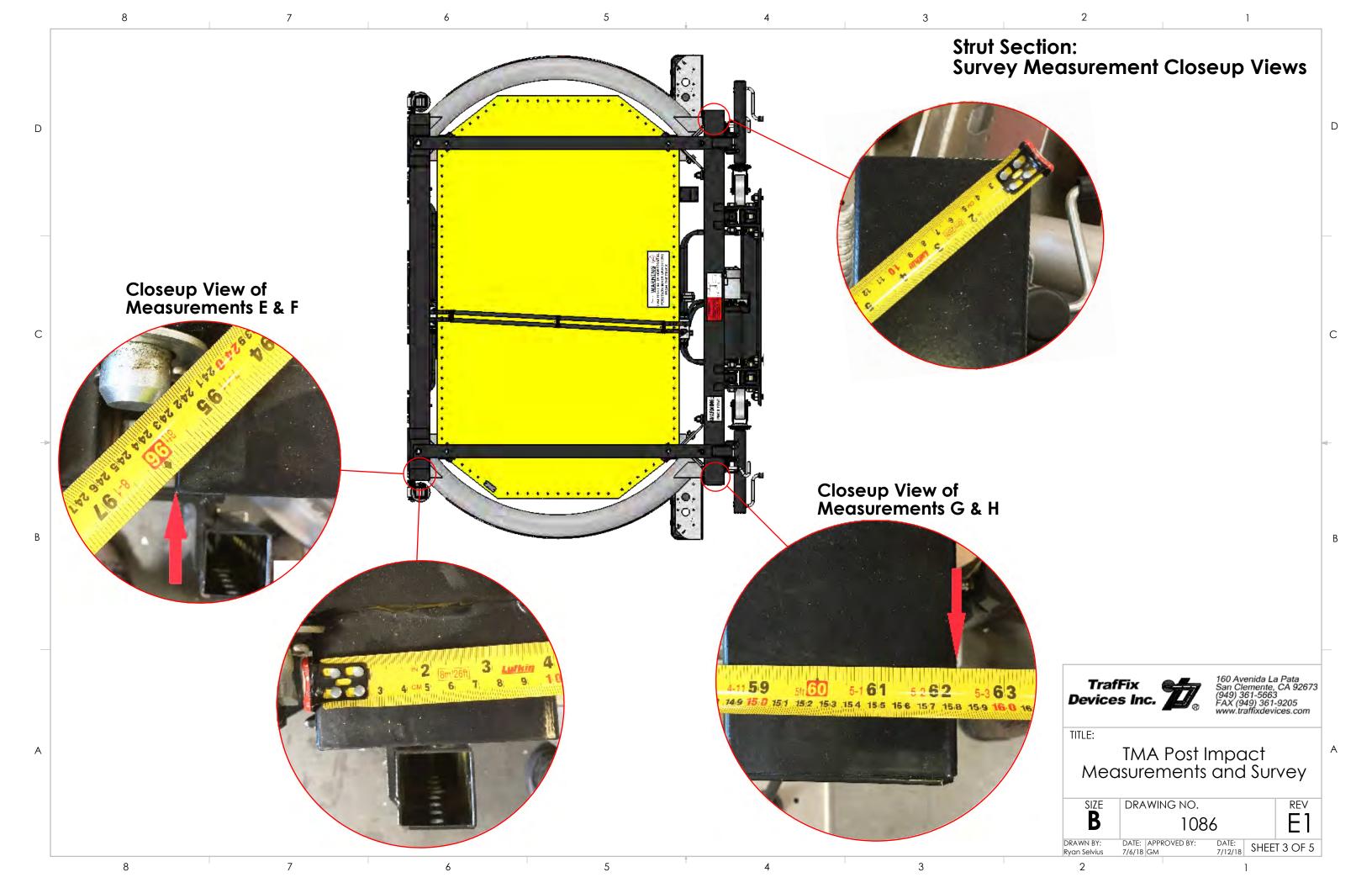
SN

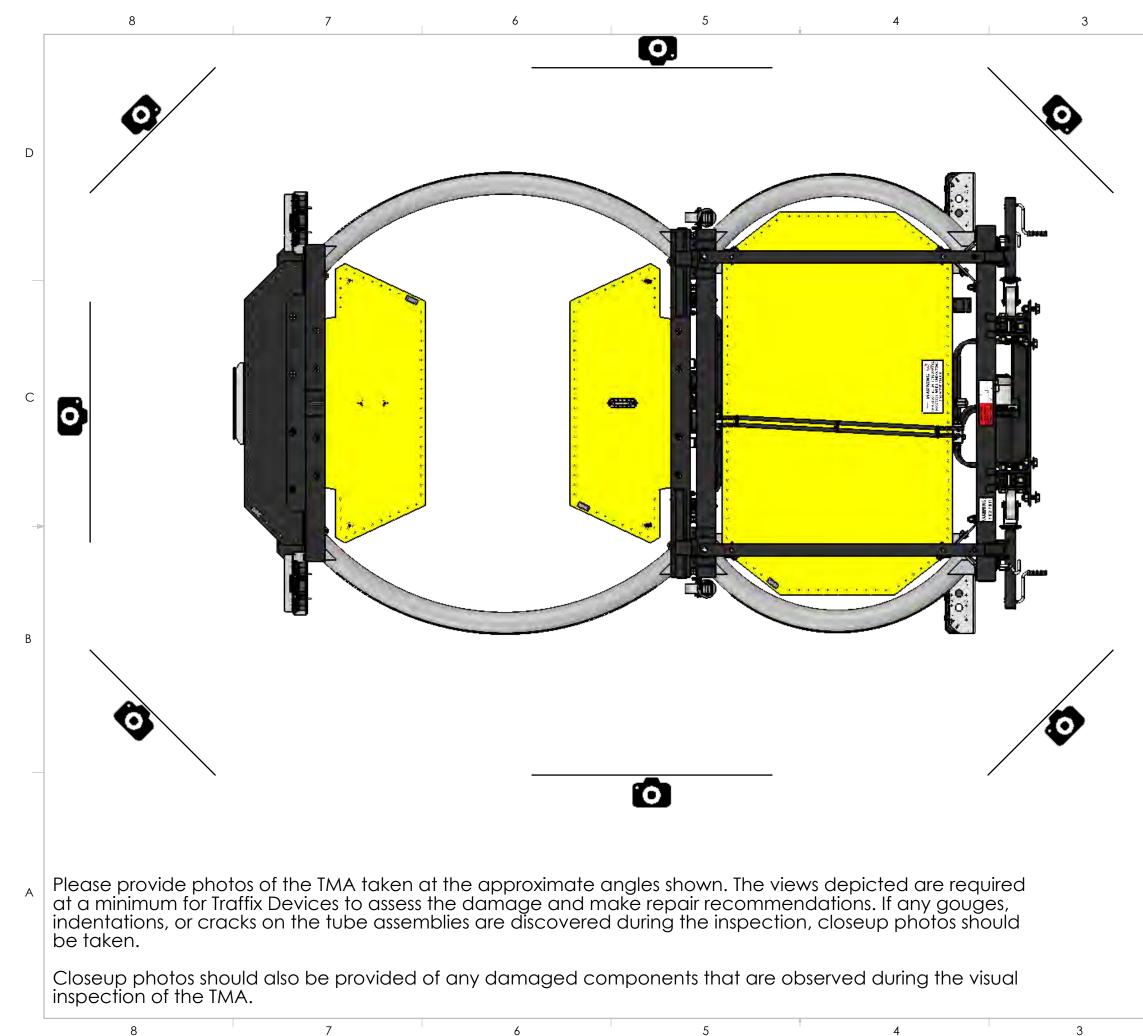
Serialized Component

CORPION II MASH EL/GIBL

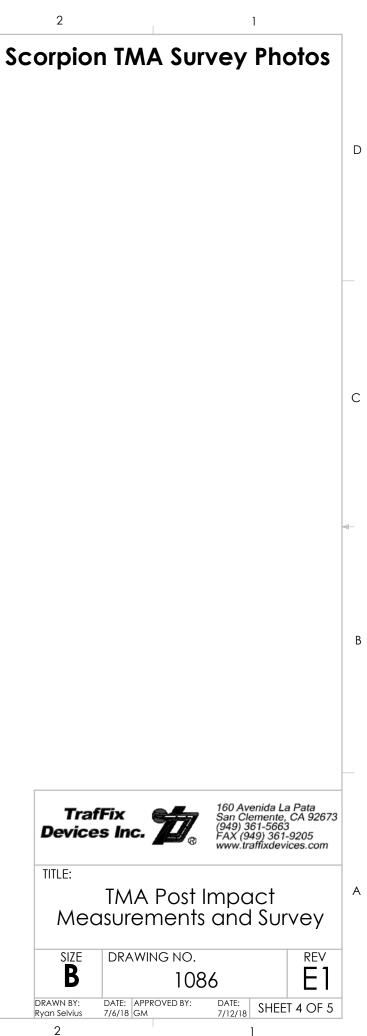
2	
st Impact Survey Measurements	
measurements is to determine whether or are still serviceable. Tube assemblies that	
t be replaced before the TMA can be returned piece of equipment.	_
A =	D
B =	
As Built: 106" [2,692 mm]	
Difference between A and B must be less than 1" [25 mm]	-
C =	
Min: 79-3/4" [2,026 mm]	
Max: 80-3/4" [2,051 mm]	С
D = Min: 79-3/4" [2,026 mm]	
Max: 80-3/4" [2,051 mm]	
E =	
F =	
As Built: 96-1/4" [2,445 mm] Difference between E and F	
must be less than 1" [25 mm]	
G =	В
Min: 61-3/4" [1,569 mm] Max: 62-3/4" [1,594 mm]	
H =	
Min: 61-3/4" [1,569 mm] Max: 62-3/4" [1,594 mm]	-
TrafFix	
<b>Devices Inc.</b> (949) 361-5663 FAX (949) 361-9205 www.traffixdevices.com	
TITLE:	A
TMA Post Impact Measurements and Survey	
SIZE DRAWING NO. REV	
BRAWN BY: DATE: APPROVED BY: DATE: SHEET 1 OF 5	
Ryan Selvius 7/6/18 GM 7/12/18 SHEET FOF 5   2 1	







Q	7	2	5	4	
0		8	J	4	



## Inspection on Strut and Cartridge Tube Assemblies

D

С

Conduct a visual inspection of all welds on the strut and cartridge tube assemblies. Pay close attention to the areas outlined in red. Check for the presense of cracks in the welds and the tubes themselves. Inspect for any signs of material deformation such as gouges, chips, dents, or scrapes along the entire length of the top and bottom tubes.

If the tube assemblies pass the post impact measurement inspection but cracks, gouges, or other damage is discovered, please contact Traffix Devices' Engineering Department for advisement on repair. Please be prepared to provide photos of any damage discovered and appropriate measurements to indicate size and depth of damage.

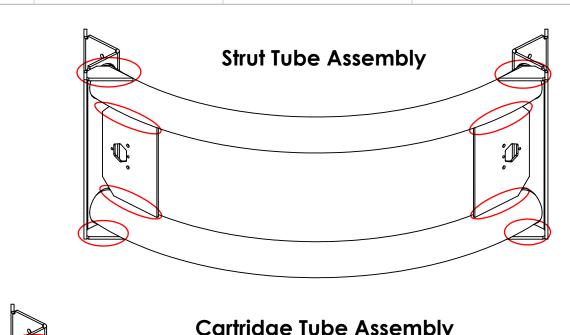
## **Examples of Tube Deformation**

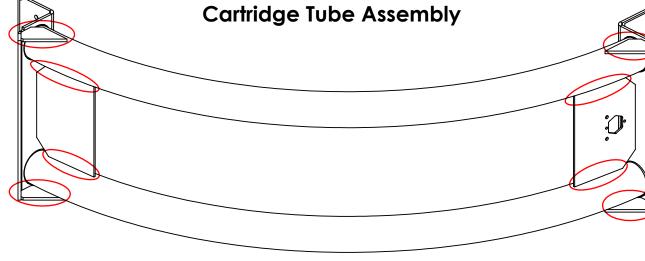
3

3









6

## **Examples of Cracks That Can Occur**

8

8

D

С



7



4

5

