



FIX-N-FAX

Equipment Standard

Number 86

Mandatory Compliance

Date: August, 2011

Model 14 & 15 Fire Engine Additional Storage Compartments

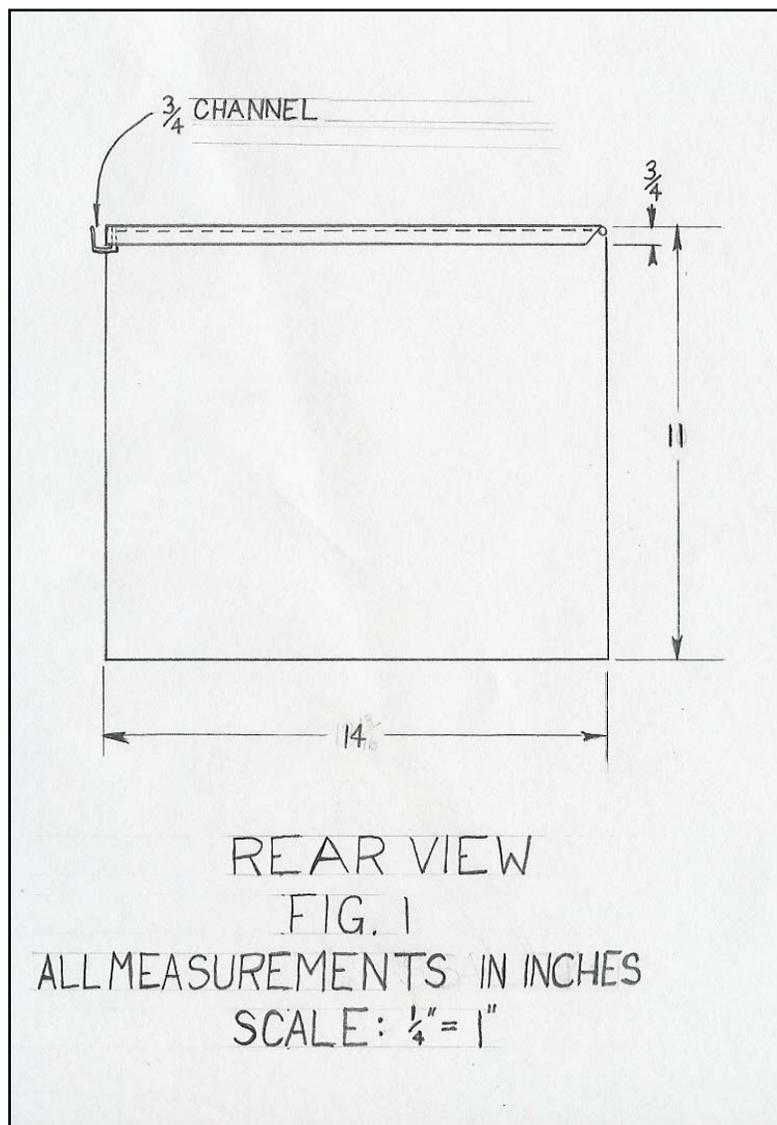
To increase storage capacity of model 14 & 15 fire engines this modification adds two compartments on each engine. The two compartments will be located above the long handle tool compartments and outside the hose beds, running the length of the hose beds on each side of the fire engine. The additional compartments add approximately 12 cubic feet to the existing 150 cubic feet of storage space. This represents an approximate 8% increase over present storage capacity.

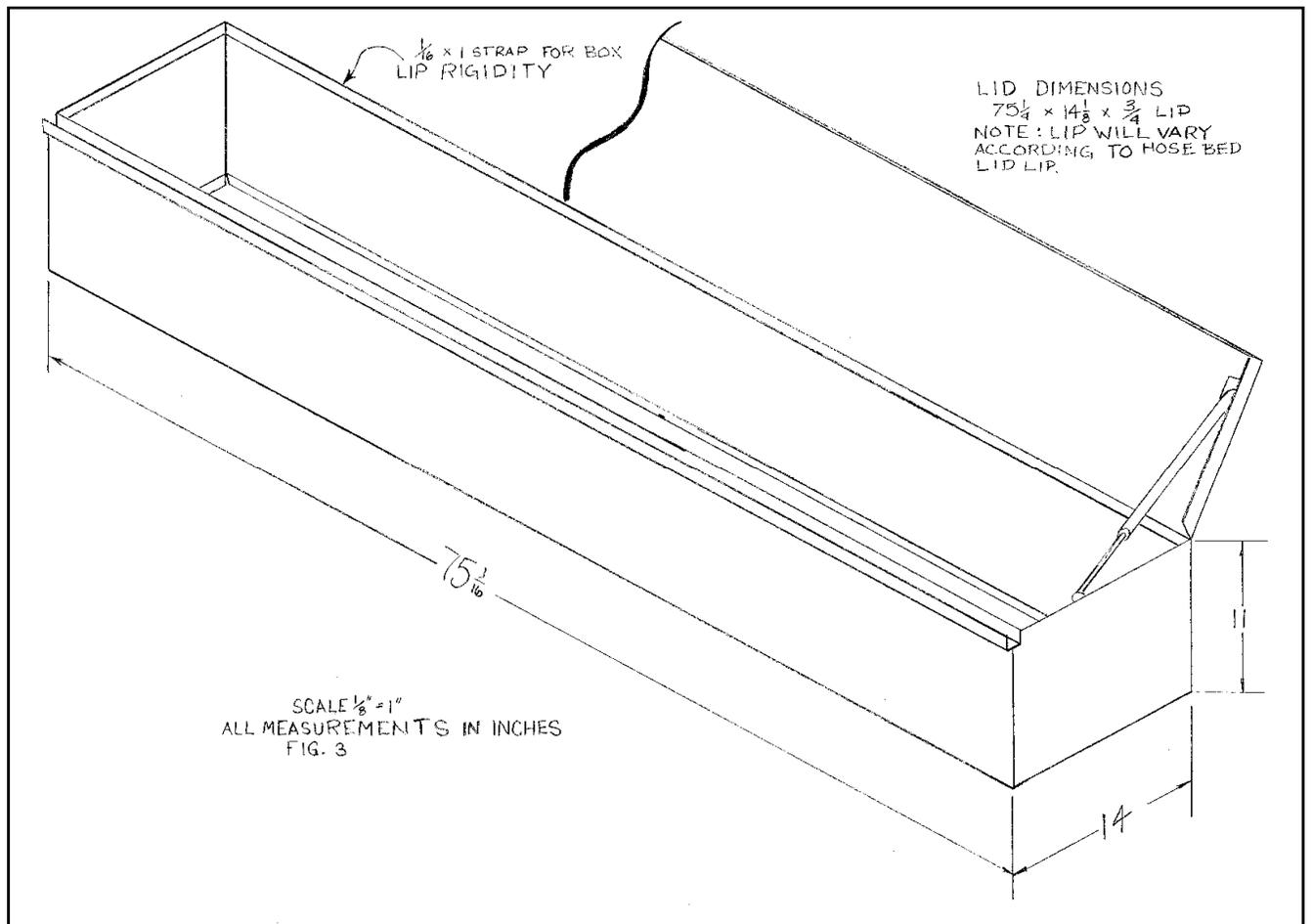
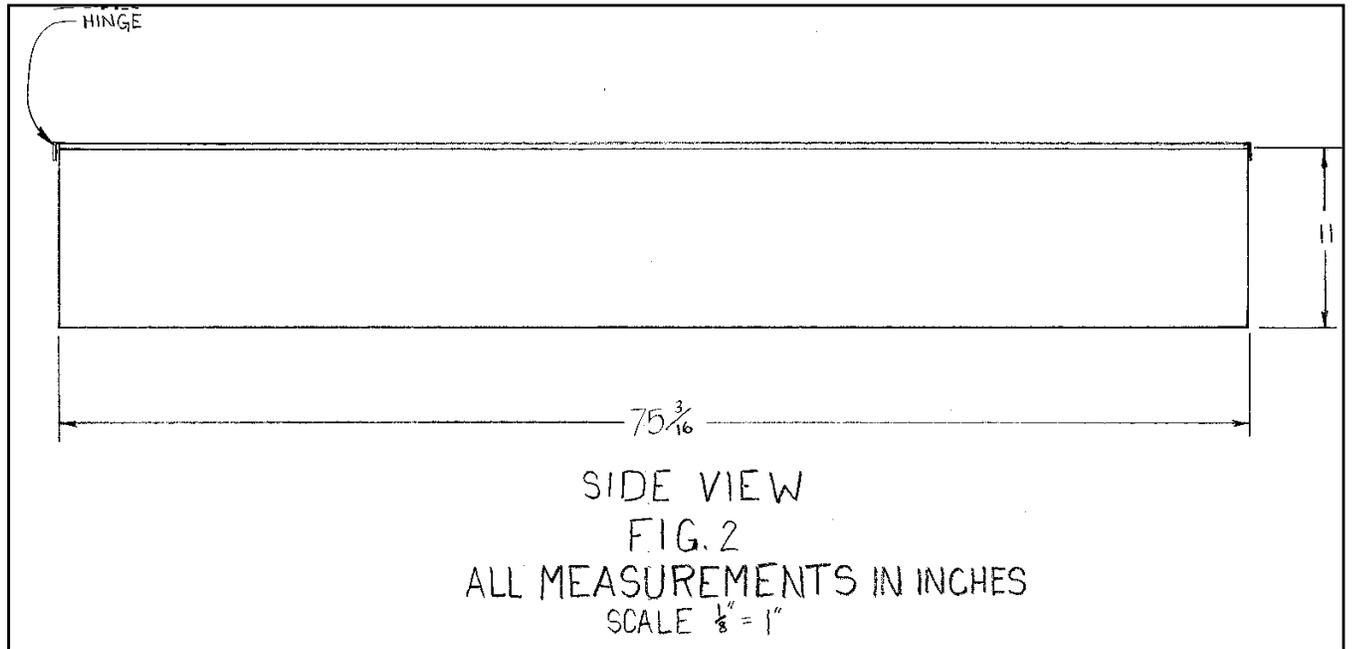
PROJECT GOALS:

- **Create compartment storage that is both dust and water-resistant to accommodate low angle rope equipment and other essential low-frequency use equipment.**
- The lid overlaps all walls of the compartment (Fig.1). Weather stripping in the lid closes on the top edges of the box (Fig.3). This construction technique should keep out dust and water protecting the equipment stored inside.
- **Create a compartment that cosmetically appears as if it was part of the original design of the build up and eliminates potential corrosion between the new addition and the existing build up.**
- The existing sheet metal that forms the outside hose bed lid wall extension (Fig.4) will be replaced with the new compartment. This proposal recommends that the new compartments should be welded, but also could be bolted on the top of the long handled tool compartment. Both the hose bed lid and the new compartment lid will close into the trough attached to the new compartment (Fig.5). The outside edge of the existing hose bed lid will sit higher than originally necessitating slight modification of the front hose bed wall (Fig.6). This will not be difficult as the part in question is bolted in and can be easily removed and replaced.
- The two hose bed covers will also require utilizing the same materials and construction techniques as the original manufacturer.

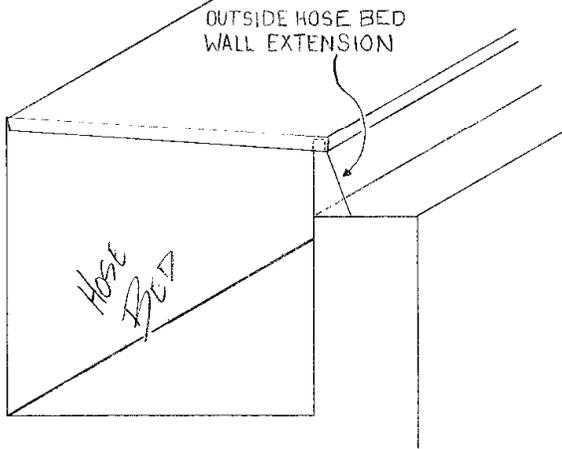
- This modification, while more involved than simply bolting a new box on the existing build up, has many advantages:
 1. Maintains the current lines of the buildup and keep a professional looking fire engine.
 2. Maximizes the size of the compartment. Narrower boxes will not effectively accommodate the equipment intended to occupy the space.
 3. Provides the best method of drainage for the top of the build up. The hose bed lid will retain approximately one inch of fall from the hinge to the outside edge, allowing water to run into the trough and off the buildup. The lid for the new compartment will drain into the same trough (Fig.5&7).
 4. Due to the drain process and the absence of concealed spaces that hold water and retardant, inherent with bolt-on, the design is corrosion free and easy to clean (Fig.5&7).

The following drawings are specific to a 1998 International model 15 fire engine built by "West-Mark Fire Apparatus" only, the dimensions may vary from model to model, however the intent of this Fix-N-Fax shall apply to all other model 14 and 15 fire engines.

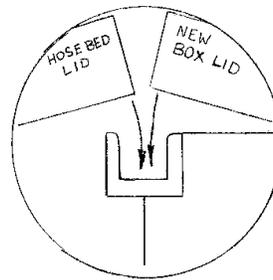
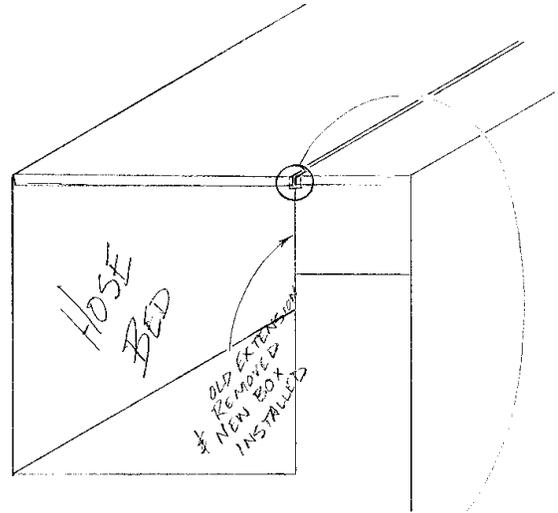




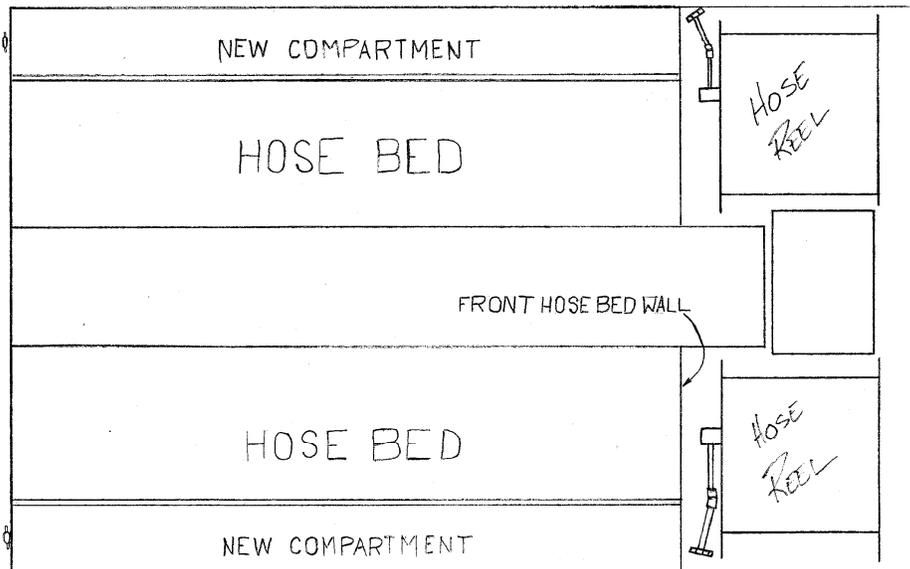
REAR VIEW PASSENGER SIDE
NEW COMPARTMENT NOT TO SCALE
FIG. 5



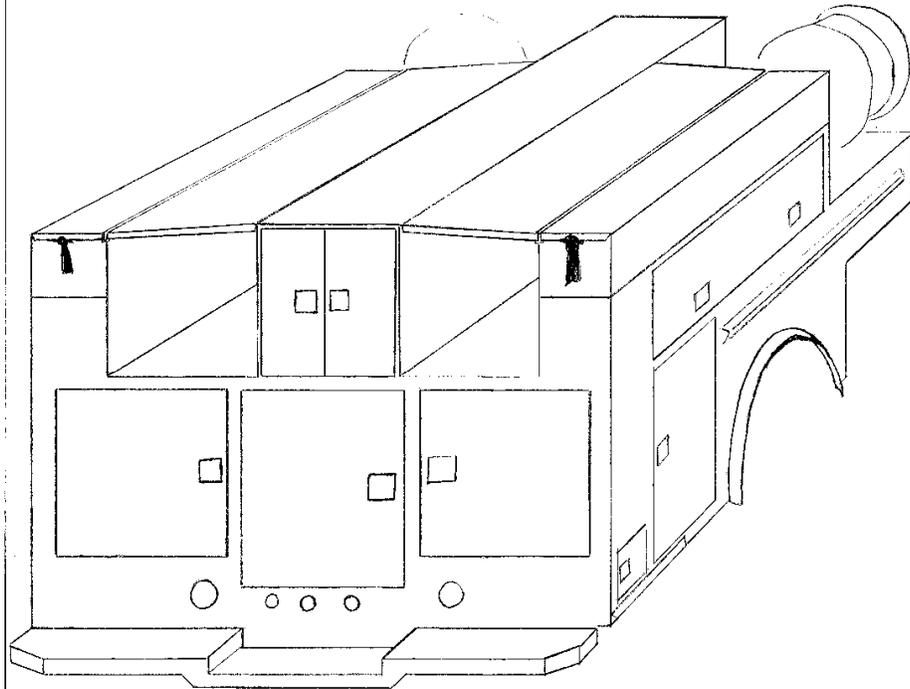
REAR VIEW PASSENGER SIDE
EXISTING MODEL IS, NOT TO SCALE
FIG. 4



TOP VIEW OF BUILDUP
FIG. 6



NOT TO SCALE



ISOMETRIC
NOT TO SCALE
FIG. 7