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**ALL STEEL**  
Structures, Inc.

SPEAK TO ONE OF OUR EXPERTS TODAY,  
**1-800.621-1759**  
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## PROJECT OF THE MONTH



This month's project was the upgrade of a structure to digital capable. The existing structure was a tri-face; two faces 20' x 60' and one face 20' x 36'.



First, we had to modify the foundation; excavating 3 feet below grade and adding rebar.



Structural beams could then be welded to the column extending into the excavated area. A bonding agent was added and concrete poured.



A new tri-face head, engineered for one of the 20' x 60' faces to be digital, and the option of upgrading the 20' x 36' face to digital was assembled and flown.

## STRUCTURALLY SPEAKING

NOT ALL SIGNS ARE  
CREATED EQUAL

## DID YOU KNOW?

### NUTS & BOLTS

There are four AISC recognized methods /procedures, to achieve the required tensioning for a fully tensioned bearing or slip critical connection.

- Turn-of-Nut Method
- Alternative Design Bolts Method
  - Tension Control Bolts
- Direct Tension Indicating Method
- Calibrated Wrench Method

We feel the use of a DTI washer is the most fool-proof method of head bolt tensioning for field installations. The most common type of washer involves the use of hollow bumps on one side of the washer. This style of washer is covered by the ASTM F959 (Standard Specification for Compressible-Washer Type Direct Tension Indicators for Use with Structural Fasteners) standard and has both A325 and A490 washers. The type All Steel uses fills the

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### Finally the digital board was mounted and fired up!



## QUESTION & ANSWER

**Q-** I have structure in a prime location that looks to be in very good condition; I've misplaced the original engineered drawing and the company that fabricated it doesn't have one either. What would I need to do to know whether or not I could mount a digital on it?

**A-** With no drawing available, you will want to cut coupons from the torsion tube and section(s) (if there are ring or butt splices) of column pipe, making sure these areas are patched by a certified welder. The coupons must be sent to a testing firm and checked for tensile strength. The other structural members, angles, beams, plates and bolts, will need to be measured and all of this information passed on to an engineer so he may calculate the upgrades that are needed.

All Steel keeps an engineered drawing in the job file of each structure it fabricates.

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**Thanks to everyone that stopped by our booth at the recent OAAI Annual Meeting**

void under the bumps with colored silicone. The silicone squirts out once the bumps are compressed, thereby indicating proper tension.

Call us for more information



## BRAIN TEASER

You have four chains. Each chain has three links in it. Although it is difficult to cut the links, you wish to make a single loop with all 12 links. What is the fewest number of cuts you must make to accomplish this task?

[Click Here to answer the question](#)

## TESTIMONIALS

*"Thank you!"*

*You gave us the best service and structure we have ever had."*

~ George

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