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**ALL STEEL**  
**Structures, Inc.**

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## PROJECT OF THE MONTH



This structure became part of a group of boards used in the campaign “ Outdoor Baseball Starting April 2”, focusing on Target Field, the Twins new stadium. This “through the roof” project required a “low boy” drill rig, a bobcat to move spoils outside to then be loaded by a backhoe into the dump truck. The column was set using walkie-talkies, and concrete was pumped through the roof and into the drilled shaft. An 8’ x 8’ plate, fabricated in two pieces was welded to the column at the roof-line to make closing up the hole a bit less daunting. Not to brag, but when completed this was definitely “**over the top**”.

## STRUCTURALLY SPEAKING

NOT ALL SIGNS ARE  
CREATED EQUAL

## DID YOU KNOW?

**A liquid crystal display (LCD)** is a thin, flat electronic visual display that uses the light modulating properties of liquid crystals (LCs). LCs do not emit light directly. LCDs therefore need a light source and are classified as “passive” displays.

**Light-emitting diode (LED)** is a semiconductor light source. LEDs are used as indicator lamps in many devices, and are increasingly used for lighting. Introduced as a practical electronic component in 1962, early LEDs emitted low-intensity red light, but modern versions are available across the visible, ultraviolet and infrared wavelengths, with very high brightness.

LEDs are used in applications as diverse as replacements for traditional light sources in the automotive industry (particularly indicators and intrtraffic signals. Airbus has used LED



To watch video as All Steel's crew helps bring the campaign to life, click on the picture below.



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lighting in their A320 Enhanced planes since 2007, and Boeing plans its use in the 787. Outdoor advertising and digital display companies have taken advantage of LED technology capitalizing with multiple copy “turns” per minute, the ability to highlight various menu items by the time of day, and quick change creative for PSA’s, such as traffic and weather warnings, or Amber alerts.



## QUESTION & ANSWER

**Q-** I’ve noticed on blueprints that some column pipe is specified “42 ksi”, I know this is stronger than average, but what’s it really mean?

**A-** Carbon steels are the most economical grades, but they also have the lowest strength or yield point, which is usually measured in kips per square inch of cross section (ksi). In structural engineering a kip is 1000 pounds. Higher strength, low-alloy steels are stronger than carbon steels, but they may be more expensive.

The various grades of structural steel are identified by specifications established by the American Society of Testing and Materials, commonly referred to as the ASTM. The two most common grades we use in fabrication are described below.

**ASTM A36-** An all-purpose carbon steel, is the most widely used structural steel for commercial and industrial building construction. This grade has a yield stress level of 36ksi, and has

## TIPS FROM THE 19TH HOLE

### Bunker play.

Most amateur players hate hitting out of the sand. Compare that to most tour players, who would rather play from a greenside bunker any day than from the rough. The key is confidence when you step into a bunker. You can't have negative swing thoughts, leaving your next shot in the sand or “thinning” it over the green. You have to trust your club, your technique and yourself.

excellent welding and machining characteristics, thus is ideal for making welded and/or bolted connections.

**ASTM A572-** A higher strength steel, is another popular grade of structural steel used in building construction. May be bolted or welded. It is available in four minimum stress levels: 42 ksi, 50 ksi, 60 ksi and 65 ksi grades.

[Click Here](#) to ask a question

## BRAIN TEASER

You are standing outside a closed door. On the other side of the door is a room that has three light bulbs in it. The room is completely sealed off from the outside. It has no windows and nothing can get in or out except through the door. On the outside of the room there are three light switches that control each of the respective light bulbs on the other side of the door.

Your assignment is to determine which light switch controls which light bulb. You are allowed to enter the room only once, and once you come out, you must be able to state with 100% certainty which light switch controls which light bulb.

**Please stop and say hello, Booth # 401  
at the TAB/OAAA show in Phoenix**

### **Solution»**

Turn one light switch on, wait a few minutes, then turn it off and turn another light switch on. Go into the room and feel the light bulbs. The one that's still warm is connected to the switch that you first turned on, the one that is on was the second switch you turned on, and the last bulb is controlled by the switch that you didn't touch.

If you have a question or would like more information on anything you've read please call the 800# at the top of the page

## TESTIMONIALS

*Dear Ted,*

*Thank you again for your efforts in the installation of the above referenced project. Your efforts in overcoming the obstacles of*



You can hear a good bunker shot. That sound is proof you've used the sand wedge in the way it was designed, allowing the bottom of the clubhead to glide through the sand and under the ball. Practice hitting the sand with the bottom of the club to get the right sound. Be aggressive-you need a smoothly accelerating swing to really make the clubhead thump. You'll also find that different kinds of bunker sand make different sounds, which will give you good feedback on how hard you need to swing to propel the ball out of the bunker on its divot of sand .



Don't take your grip and then open the clubface by turning your hands to the right. That creates a tendency to close the clubface through impact, as the hands try to return to normal position. Instead:

1. Open the clubface about 30 degrees before you take your grip.
2. With your arms nice and relaxed, complete your grip, making sure your left hand is

*the delicate engineering problems; use of the crane on the narrow street Without one complaint from the municipality, neighbors in the area, or owners of the property; and completion on time working under adverse weather conditions. In short. . . a job well done!*

turned a bit to the left.

This weaker grip helps keep the clubface open through impact and allows you to take a bigger swing. Focus on the sand, not on the ball. Drop four or five balls in the sand. Hit each one in quick succession, focusing on a spot a couple of inches behind each ball. Just swing away, listening for the "thumps."



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Editorial Content - Jeff Strolle

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