



What's Happening.



"They will soar on wings as eagles." Isaiah 40:31

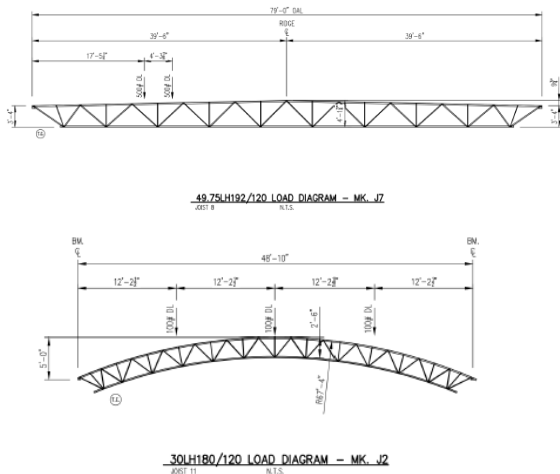
January 30, 2021

Did you know?



Joists

Did you know that joists have chords and a web? A joist has a top and bottom chord. The steel in between the chords allows the joist to carry a load and is called the web. We know we can certainly relate to webs. Between spiders and Spider-Man, the weaving of strings or in this case the pattern of steel can be very powerful to capture and hold objects. When you look up in your gym or your front entrance, take note of the joists that are there supporting your roof and air conditioning equipment.

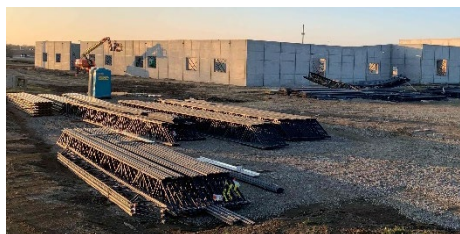


These are a few of the different type of joists that are used on the project. Do you recognize the "barrel" joist?

Joists and Structural Steel Halfway Point

Happy New Year everyone, we hope that your January is going well. As we head into February, we want to give you an update on your school progress.

Last month, we highlighted the precast concrete panel walls. Those were completed in mid-January and we have started to install joists. Joists are structural components that perform many functions. They stabilize your precast walls and support the metal decking that supports your roof. It is in the forming of a "box" that makes your building become stronger. The box is made of foundations, walls, joists/roof and concrete slabs. We know that three sides of a box might not be rigid however when you add that fourth side (concrete slabs) to complete a square, you have support at all corners. There are over 279 joists in your building. Joists vary from size and length and like the precast panels, each has a number and a precise place it is installed. There are also "barrel" joists that will be installed last, they will support a half-moon roof at the entrance. On the back page, we will talk about the roof decking.



Top left: Joist installation in the gym area.

Bottom left: Many of the joists awaiting to be installed. Can you find the barrel joists?

Right: Joists installed over the kitchen and cafeteria area. Notice the bundles of metal decking on the left of the picture.

What's Happening (continued).

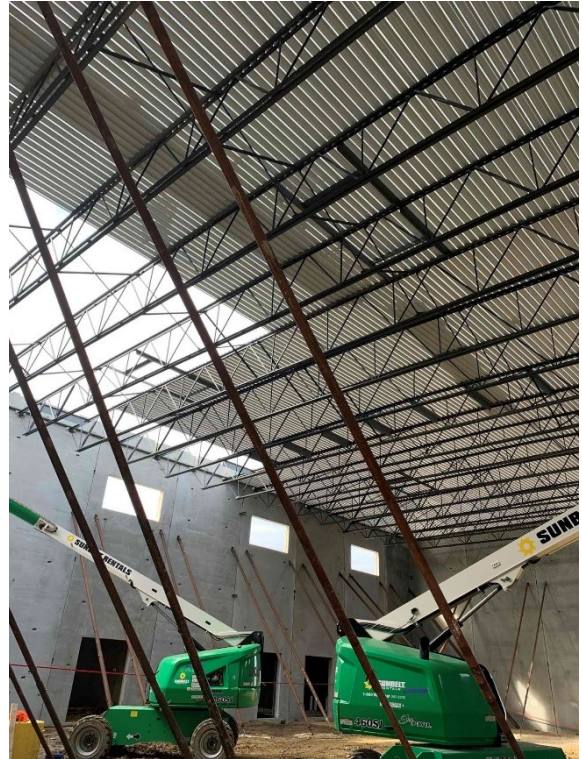


Metal Decking

We mentioned metal decking earlier when talking about joists. Metal decking comes in many sizes and forms as well. On your new school we are using metal roof decking that comes to the site in bundles. Each bundle weighs anywhere from 2,000 lbs. to 4,000 lbs. and may contain 18 to 26 “sheets” of decking. We need enough metal decking to cover 65,000 square feet for your building. There are 912 sheets of metal decking to install. A sheet is typically 3’ 4” wide with various lengths from 11’ long to 31’ long. So similar to a



twin bed in width, that’s a lot of sheets to make in the morning – 3,291 beds to be precise.



Thank you for all the cards and Friday blessings.

We continue to be blessed by all of you with our Friday snacks and more importantly the prayers and thank you cards for a continued safe project.

Also, to answer Liam’s question of which team to check? – Reds, Red Sox, Cubs or Other. Our site Superintendent, Jeremy Stone checked Go Cubs!

