



Note #1: [REDACTED] was the latest of many projects where [REDACTED] mitigated field safety hazards and the often inefficient process of working around other trades, and increased efficiency enabling the project to be completed smoother, and faster than planned i.e. cut several days off the construction schedule and was out of the way of other trades sooner than planned. One of the issues was by design: after we erected the framing and at 70' in the air the gauged metal truss trade had to do the roof, then we had to deck, then the roofers had to install the roof sheathing and standing seam. Instead, JBC engineered and built a special hoist frame, created a field welded splice at the top of the columns, assembled the stub columns to the 4 roof beams on the ground and connected the hoist frame to the assembly, then the trusses, deck and roofing were all installed on the ground. This framing was the 1st thing to be done so everyone had time to get their part done before we stood the sides of the tower. We're upfront planners, and that commitment allowed us to stand and connect the entire 5 story tower to include the completed roof in 7 hours.



Note #2: The entire roof, framing, gauged metal trusses, decking, and standing seam were done on the ground opposed to 70' in the air and then [REDACTED] hoisted the 24'x24'x14,000 lb structure on top the framing. Part of what made this work was our innovation to the right on this page. The issue was, how do you get everything to line up i.e. the columns, the joint to include the proper root opening, and how do you do it safely without having personnel under the load. It took two tag lines, was aligned and seated (securely) from the ground and these connections are what allowed it to happen.

Note #3: This joint is nothing more than an AWS D1.1 pre-qualified CJP welding procedure i.e. BU-4A which we have attached to this RFI. The two modifications which are not prohibited by or conflict with AWS are: the upper column shaft has a recessed plate (erection aid) inside the tube so when it is set on top the lower shaft, the joint bottoms out at the proper root opening. The lower shaft has a shop installed full length backing bar that is extended into a cone shape (erection aid) which allows the joint to properly align and bottom out in the air.

