



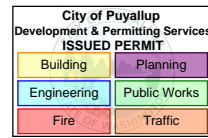
**City of Puyallup  
Building  
REVIEWED  
FOR  
COMPLIANCE**

BSnowden  
04/23/2025  
9:13:11 AM



February 26, 2025

Attn: Ernie Brandi  
3353 Yeager Dr.  
Madera, CA 93637



**PRMH20250495**

**These calculations must be on site and made available by the Permittee for all inspections.**

Re: Butler Order No: 24-022076  
Bldg. Description: Costco Warehouse - TC HVAC review  
End Customer: Costco Wholesale  
Bldg. Location: Puyallup, WA (#660)

To Whom It May Concern,

This letter is to evaluate the existing building structure for the installation of the new HVAC Unit as indicated in the drawings/information received from Butler Manufacturing and as shown on SK-1 of this letter. The loading and location for the work completed is per drawing "\_557ROOF\_PUYALLUP(#660)\_WA\_9\_12\_23" by TEI dated 9/12/2023. The new HVAC Unit will be installed on a new curb.

The HVAC Unit will be supported by the existing roof bar joists. The analysis of the proposed curb is not part of the SSC review. The existing building was designed by SMI Joist (Job # 22-00-0299, dated 8/22/2000). The analysis was based on the current building loads of 18 psf ground snow load, 5 psf dead load, and 4 psf collateral load. Costco changed the collateral load requirements from 6 psf to 4 psf in 2005.

This review assumes that there is no damage or modifications to the existing structural members supporting the proposed HVAC Unit. If there is any damage or modifications, this letter is void.

If a curb lands more than 6" from a top chord panel point, a diagonal steel angle must be installed from the curb location to the nearest bottom chord panel point. See SK-2 for detail.

When total unit loads exceed 3500#, we suggest supporting the diffusers directly from the bar joists to reduce the load on the roof curb to ensure thermal movement of the curb with the roof panel.

The new weight of the HVAC Unit will not adversely affect the structural integrity of the bar joists or the main frames if they are installed as shown on "\_557ROOF\_PUYALLUP(#660)\_WA\_9\_12\_23" and sketches SK-1 and SK-2.

If you have any questions, please contact Philip Swoboda at [pswoboda@ssc.us.com](mailto:pswoboda@ssc.us.com)

Sincerely,

*Patrick Davis, P.E.*

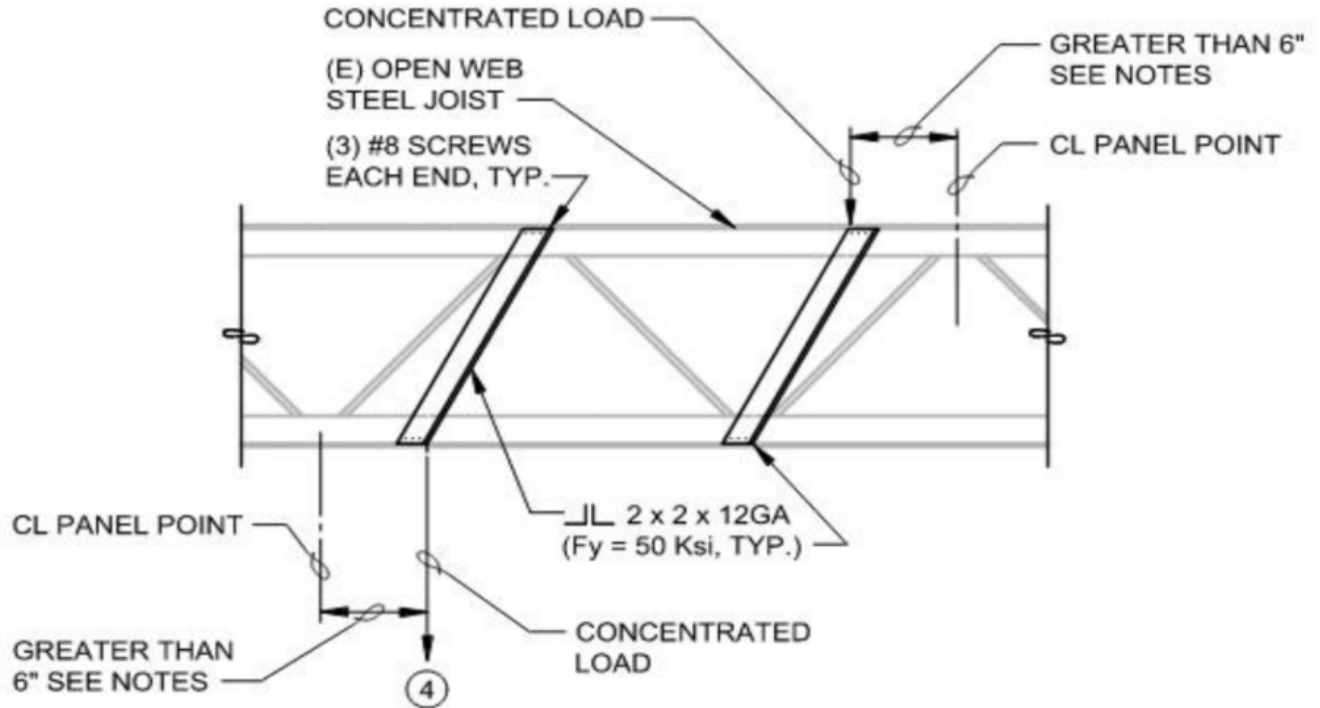
Patrick Davis, P.E.

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KANSAS 66212 [ssc.us.com](http://ssc.us.com)



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**NOTE:**

- 1.) WHERE CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM A PANEL POINT CL, REINFORCE THE JOIST WITH AN ADDED ANGLE (E.S. JOIST) EXTENDING FROM THE POINT LOAD TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD.
- 2.) DO NOT PLACE LOAD UNTIL ANGLE SUPPORT IS INSTALLED.
- 3.) NOT REQUIRED IF THERE ARE EXISTING ANGLES PRESENT AT THESE LOCATIONS.

## DIAGONAL BRACE DETAIL

24-022076

Puyallup, WA (#660)

TC HVAC

2/26/2025

PD

**SK-2**