



**ENGINEERING, INC.**

Consulting Structural and Civil Engineers

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Raytown, Missouri 64133  
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March 29, 2026

Mr. Jim Sullivan  
Sullivan Palmer Architects  
8621 Johnson Drive  
Merriam, KS 66202

**Re: Running Well Air Handler Installation – 330 SW Blue Parkway, Lees Summit, MO**

Mr. Sullivan,

I have evaluated the proposed air handler relocation at the above referenced address. The two relocations are part of a larger tenant finish project.

Each furnace and air handler are 5 tons and will be installed approximately 24" from the north wall and will be supported on two existing roof joists. The joists are 24" tall and spaced at 5'-0" on center and span 37 feet at the north part of the space. The designation of the joists is not known so the smallest one will be used for analysis, 24K4. The weight of each unit is 200 pounds so 100 pounds will be supported on each joist. The equivalent uniform load due to the air handler load is 1.1 plf which is added to the design load of 175 plf results in a total load of 176.1 plf. The capacity of a 24K4 is 216 plf at a length of 37 feet. That is over 22% additional capacity.

It is my opinion that the existing roof joists are adequate to support the relocated air handlers without modification. It should be noted that the connections of the air handler supports to the roof joists should be made at the panel points of the joists.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

