Civil and Structural Engineers
Texas Board of Professional Engineers Firm Registration Number 8856
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December 7, 2018

Building Code Enforcement
City of Houston
1002 Washington Avenue
Houston, TX 77007

Re: RTU Analysis
Cell Medica
8515 Fannin St.
Houston, Texas 77054

Dear Sir or Madam:

H2B, Inc. (H2B) completed the Roof Top Unit (RTU) Analysis located at the above address. H2B completed the analysis using mechanical drawings, sheets M.202 and M.501, provided by the client and completed by DBR on December 6, 2018 and structural drawings completed by SCA on April 14, 1993. Based on the locations and weights of the new RTUs provided by the mechanical drawings, the existing roof joists at the three different locations are capable of handling the additional loads.

The contractor shall add in an L3x3x1/2 under the curb of the RTU unit as well as any openings larger than 10"x10". The openings for the mechanical equipment shall be located in-between existing joists. The angles for the openings shall be welded to the existing joists or another angle using a 1/8" fillet weld 1 ½" in length. The RTU equipment shall be attached to the curb using eight (8) #12 screws on each side and three (3) metal straps with two (2) #14 screws per strap on each face of the equipment, per FEMA standards. At locations where there is a concentrated load placed on the existing 18" deep joist, the contractor shall install an L2x2x1/4 joist stiffener that is field welded to the joist top and bottom chords with 3/16" fillet welds all around.

Please feel free to call me if you have any questions.

Respectfully,

Elba Duque, P.E.
Project Engineer- Structural Engineer