

## STRUCTURAL ENGINEERING INSPECTION



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# 1: GENERAL

## Information

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<b>Project Information: GreenWorks Project Number</b>	<b>Project Information: Inspection Date</b> 2023-08-11	<b>Project Information: Report Issue Date</b> 2023-08-17
<b>Building Information: Property Faces</b> South	<b>Building Information: Building Type</b> Single Story Commercial	<b>Building Information: Framing Type</b> Steel-framed
<b>Building Information: Garage Type</b> No garage	<b>Building Information: Foundation Type</b> Concrete Slab-on-Grade	<b>Building Information: Original Construction Date</b> 2016
<b>Reference Documents: Applicable Code</b> IBC 2018 with Local Amendments		

### General: Purpose - Roof Framing Review

As requested, personnel of GreenWorks Engineering and Consulting have completed a structural review of the address referenced above. The purpose of the observation was to collect information necessary to assess the condition and performance of the new roof framing supporting the new RTUs. Structural drawings from Wright Structural Engineers, project number 230764, dated May 18, 2023 were provided by the client.

Some data collected in the form of photographs of the observed distress is presented in this report. These photographs are included for reference and are intended only to represent the distress generally found throughout the structure. They do not represent a comprehensive catalog of all of the distress present in the structure.

### Reference Documents: Additional Documents Provided

Engineered Plans, Design Specifications

Roof Top Units Submittal by Gemco Constructors, dated March 27, 2023

Architectural, Mechanical, and Electrical Plans by Gemco Construction, project number G230018 dated May 12, 2023

Structural Plans by Wright Structural Engineers, project number 230764, dated May 18, 2023

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## 2: OBSERVATIONS - ROOF FRAMING

### Information

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**Primary Roof Framing: Rafters**  
Steel Roof Trusses, @5' O.C.

**Primary Roof Framing: Maximum Rafter Clear Span**  
60 feet

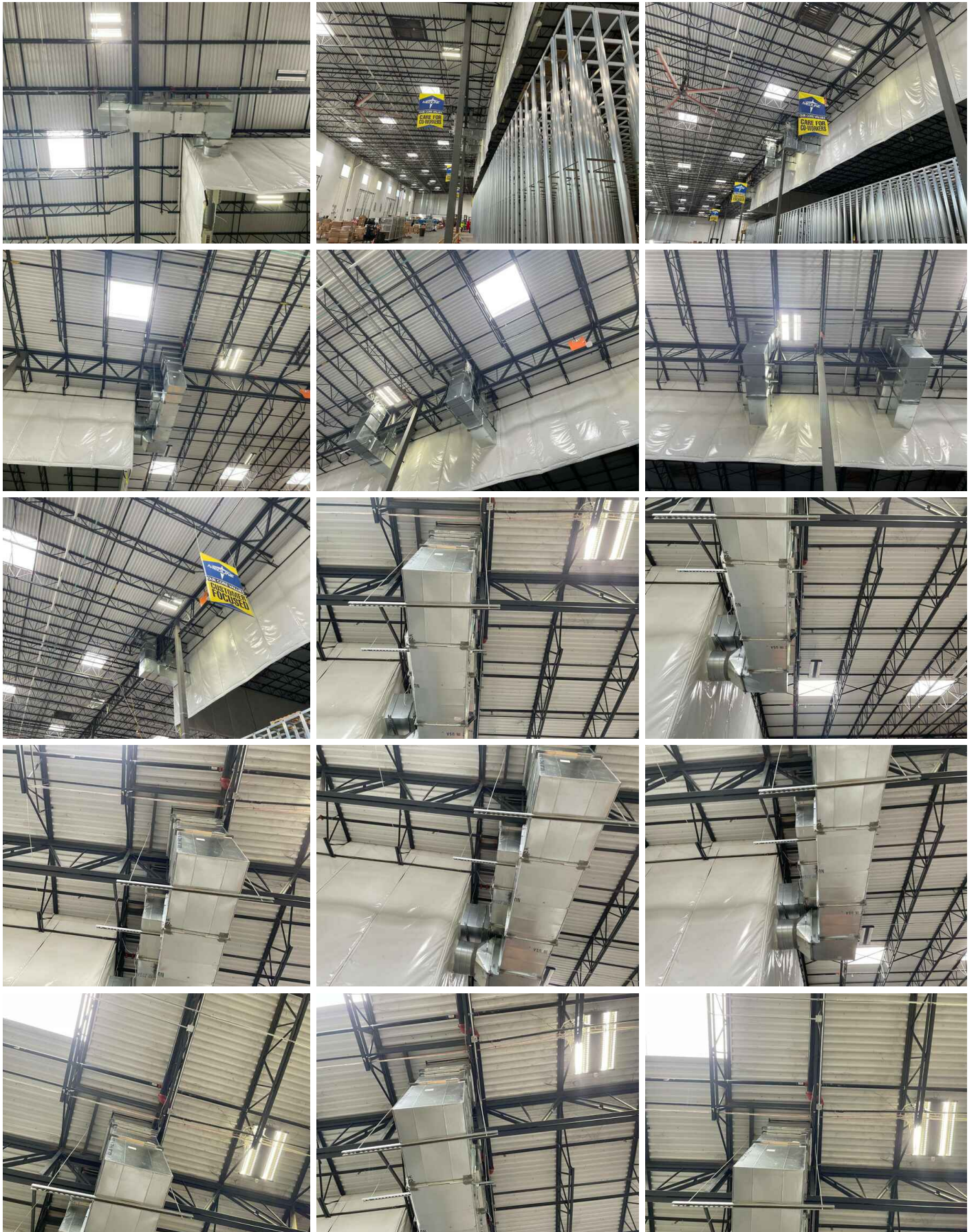
**Primary Roof Framing: Typical Rafter Clear Span**  
60 feet

**Primary Roof Framing: Roof Girders**  
Steel Roof Girder Truss

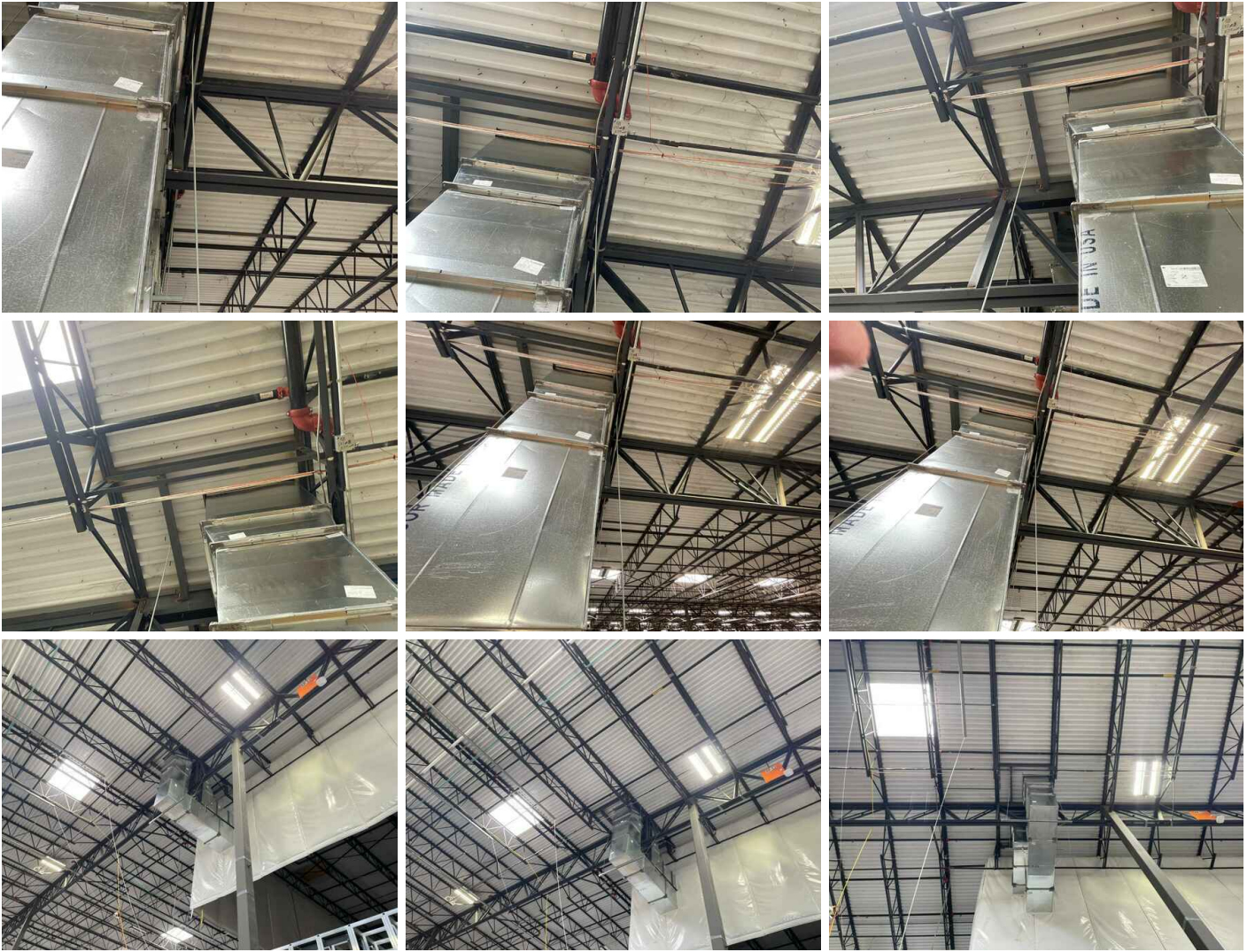


## Primary Roof Framing: Primary Photos

Per the client, four new RTUs were installed along column line J (furthest south bay) of the structure. New RTU framing was supported by C8x11.5 along all supporting edges of the RTU. All C8x11.5 were welded all around to the existing steel joist with additional (2) L2-1/2"x2-x1/2"x3/16 angles added to the steel joists web vertically.







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## 3: STRUCTURAL REVIEW

### Information

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#### **Framing Review Conclusions: Structural Review - Adequate**

Based on our observations, the subject framing appeared to be in good condition and in substantial compliance with the referenced documents. No apparent structural distress was observed. It is our opinion that the subject framing is adequate to support the current loads and does not require structural mitigation.

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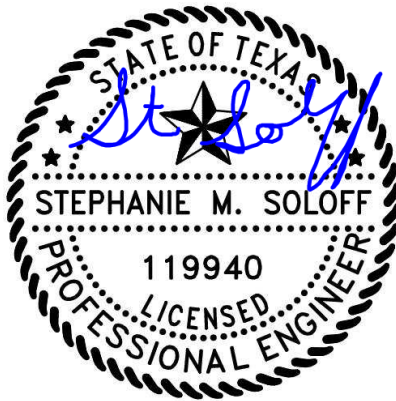
# 4: PROFESSIONAL ENGINEER STAMP

## Information

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**Report Prepared By:** Prepared by  
Garrett Shahan, E.I.T.

**Professional Engineer Stamp:** Reviewed by Stephanie Soloff, P.E.



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## Limitations

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Limitations

### GENERAL

The opinions and recommendations contained in this report are based on the visual observation of the then current conditions of the structure and the knowledge and experience of the engineer. The evaluation was limited to visual observations and areas not visible, accessible, or hidden behind furniture and appliances were not included in the evaluation. The evaluation did not include any soil sampling or testing.

The evaluation did not include any assessment of the existing foundation, plumbing, or soil and no implication is made on the compliance or non-compliance of the house with old or current building codes. No verification was made of the existing concrete strength, thickness, reinforcement nor capacity to support any load.

No guarantee or warranty as to the future performance or need for repair of the structure is intended or implied. Limits of liability for any claims with respect to this report is limited to the fees paid for services and anyone relying on the content of this report agrees to indemnify GreenWorks Service Company for all costs exceeding this fee.