



**TRANE™**

# **Change Order # 001**

## **Prereadings at Community Center**

### **Duct Inspection at Community Center and City Hall**

*Prepared For: Jesus Sanchez*

*Date: 7/7/2021*

*Job Name: City of Carson*

*Contracted By: Patrick Wilkinson*

**Change Order Breakdown:**

ORIGINAL CONTRACT SUM:	\$ 5,822,925.00
NET CHANGE BY PREVIOUSLY AUTHORIZED CHANGE ORDERS:	\$ 0.00
CONTRACT SUM PRIOR TO THIS CHANGE ORDER:	\$ 5,822,925.00
CHANGE ORDER ADD / DEDUCT AMOUNT:	\$ 94,346.23
NEW CONTRACT SUM INCLUDING CHANGE ORDER:	\$ 5,917,271.23

**Description of Work:**

This Change is in response to the request made for the following:

1. To perform an air flow study in AHUs 2 thru 7 and the areas served by them at the Community Center Building in the City of Carson.
2. Physically investigate the duct in the City Hall and Community Center to develop a report of findings and suggested corrective measures.

Scope of Work for Mechanical Engineer to include:

- Visit the site to review existing air distribution versus record drawings.
- Evaluate record drawings thermal zoning versus existing conditions.
- Perform individual thermal zone load calculation for existing spaces conditions.
- Evaluate air distribution capacity and sizing for each thermal zone.
- Evaluate central plant chilled water, heating hot water, and condenser water overall capacity and peak demand evaluation.
- Review existing conditions of mechanical equipment for spaces currently out of scope:
  - Community Center AHU-2 through AHU-7
  - Community Center AC-1 through AC-7
  - Community Center Tower
  - Community Center Miscellaneous AC Units and Fans
- Evaluation of all air handling systems against ASHRAE 62.1 ventilation requirement for all units not currently in scope.
- Update the energy model for both buildings to include discrete zones based on the as-built condition.
- Evaluate existing systems against current energy codes.
- Evaluate existing air systems against current CMC codes.



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- Provide summary report of findings and recommendation and air quality approach and specifications

Scope of Work for the Testing and Balancing Contractor to Include:

- Pre-Construction air balance readings on the existing system.
- Providing a lift for access if necessary.
- Providing a report of findings.
- Exclusions:
  - Any water systems
  - Any exhaust systems not associated with building pressure or comfort control
    - Ex. Bathroom or Kitchen exhausts not included

Scope of Work for Duct Investigation

- Visual investigation of Carson City Hall and Community Center
  - 2 persons for no more than 2 weeks total (both buildings).
- Written report including photographic evidence (where beneficial) detailing findings and locations of identified points of leakage.
- Exclusions/Clarifications
  - Repair or replacement of any ductwork or terminations excluded
  - Premium time excluded
  - It is assumed that all ceiling tiles and access points are in good repair and operable without damage.
    - Any ceiling tiles found damaged will be reported prior to accessing the space.
  - This work may require the temporary removal and re-taping of the (E) duct wrap. Existing insulation will be reused. No new insulation will be installed.

Cost for Mechanical Engineer Scope	\$18,064.20
Cost for Test and Balancing Contractor Scope	\$31,283.45
Cost for Duct Investigation Scope	\$44,998.58



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**Change Order Proposed By:**

Signed: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Change Order Accepted By:**

Signed: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

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Acceptance of this Change Order by Contractor constitutes an accord and satisfaction for both time and money, for any and all costs (direct and indirect), impact effect and/or delays arising out of or incidental to the Work as herein revised. No further adjustment in compensation or time of performance shall be made as a result of the foregoing change(s) except as provided herein. Trane's Standard Contract Terms and Conditions apply as originally stated.