CHANGE ORDER

PROJECT: Design Build Agreement PH2 **CONTRACTOR:** Johnson Controls Fire Protection LP

DATE: February 7, 2023 **CHANGE ORDER #:** COR#25

This contract shall be changed as follows:

CHANGES:

1.	Rock Canyon Damper adds	$293,300.65
2.		
3.		
4.		
5.		

TOTAL CHANGE ORDER: **$293,300.65**

By signing below the contractor acknowledges acceptance of this change order as full compensation to the contractor for all costs related in any way to this work and its effect on other work already contracted for.

CONTRACT STATUS:

Original Contract Sum	$3,045,829.00
Previous Change Orders	$420,520.58
Current Contract	$3,466,349.58
This Change Order	$293,300.65
NEW CONTRACT TOTAL	**$3,759,650.23**

The Contract time will be extended by TBD calendar days. Therefore, the date of Final Completion as of the date of this Change Order is July 30, 2023

NOT VALID until signed by the Contractor, Architect, and Owner, and approved by the School District's Board of Education (if applicable).

	Johnson Controls Fire Protection LP	Douglas County School District
Consultant	Contractor Robert Cull	
By	By Robert A Cull	By Richard Cosgrove Chief Operations Officer
Date	Date 2/7/2023	Date

	A	B	C	D
1		Count	Cost	Total
2	**Subcontracting Installation**			
3	Material	155	$ 85.00	$ 13,175.00
4	Labor	1400	$ 115.00	$ 161,000.00
5	Equipment	8	$ 1,365.00	$ 10,920.00
6	Markup	1	$ 22,211.40	$ 22,211.40
7	**Subtotal**			**$ 207,306.40**
8				
9	**JCI Labor and Materials**			
10				
11	PM	24	$ 133.50	$ 3,204.00
12	CAD	32	$ 105.00	$ 3,360.00
13	Design	32	$ 115.00	$ 3,680.00
14	Commissioning	160	$ 115.00	$ 18,400.00
15	Admin	4	$ 95.00	$ 380.00
16	Fire Alarm Parts	155	$ 367.55	$ 56,970.25
17				$ -
18	**Subtotal**			**$ 85,994.25**
19	Design Builders Fee (waived)			$ -
20				
21	**Total COR**			**$ 293,300.65**

TLH FIRE
Specializing in Life Safety
Engineering a Safer Tomorrow
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RCHS EXISTING NON-COMPLIANCE

December 7, 2022

RE: Douglas County School District Rock Canyon High School Existing Non-Compliant Conditions

TLH Fire performed an on-site observation on October 18th, 2022, with the intent to document the building construction and life safety conditions to derate walls that are no longer required to be rated per IBC 2021 and therefore allowing for the removal of non-required fire/smoke dampers.

The following was discovered while on site visit:

1. The construction type is 2B instead of the documented 2A (red arrows highlight structural members in figures 1 & 2 below.)
2. The documented 2-hour fire walls were not constructed to the approved architectural drawings (exposed metal studs on existing fire walls are shown in figures 1 & 2 below.)

The above conditions push the school over the allowable fire area allowed per UBC or IBC.

The fire alarm upgrade project is a Level 1 alteration. Field verified fire/smoke dampers will remain in place and DCSD will not pursue fire/smoke damper modifications at this time.

From the coordination meeting between DCSD, JCI, TLH Fire, SMFR, and DFPC on December 7th, 2022, the existing certificate of occupancy is still valid. The building will need to be evaluated if/when the school district decides to perform future IEBC Level 2 or Level 3 alternations.

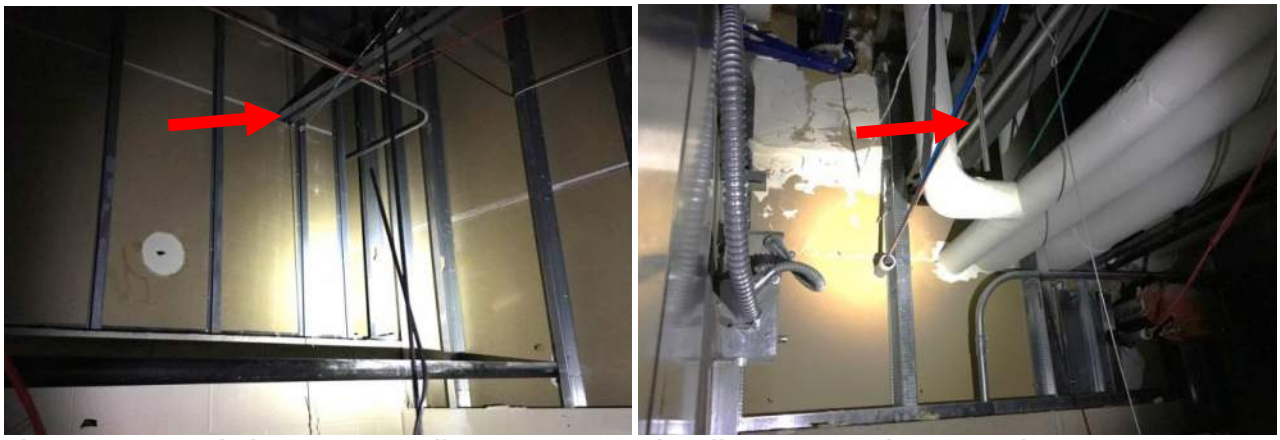
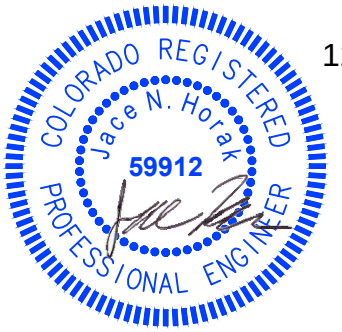


Figure 1 & 2 – Existing Non-Compliant 2-Hour Rated Wall & Construction Examples

Thank you,

Tami Lynn Holley, PE



12/8/2022

Jace Horak, TLH Fire (FPE)

IEBC 2021 Alteration Levels:

SECTION 503
ALTERATION—LEVEL 1

503.1 Scope. Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.
503.2 Application. Level 1 alterations shall comply with the provisions of Chapter 7.

SECTION 504
ALTERATION—LEVEL 2

504.1 Scope. Level 2 alterations include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment.
504.2 Application. Level 2 alterations shall comply with the provisions of Chapter 7 for Level 1 alterations as well as the provisions of Chapter 8.

SECTION 505
ALTERATION—LEVEL 3

505.1 Scope. Level 3 alterations apply where the work area exceeds 50 percent of the building area.
505.2 Application. Level 3 alterations shall comply with the provisions of Chapters 7 and 8 for Level 1 and 2 alterations, respectively, as well as the provisions of Chapter 9.

KEYNOTES:

8 STRATEGY USED FOR DAMPER ACTUATION: IMC 607.3.3.2.1: WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED INSIDE THE DUCT OR OUT-SIDE THE DUCT WITH SAMPLING TUBES PROTRUDING INTO THE DUCT. THE DETECTOR OR TUBES WITHIN THE DUCT SHALL BE WITHIN 5 FEET (1524 MM) OF THE DAMPER. AIR OUTLETS AND INLETS SHALL NOT BE LOCATED BETWEEN THE DETECTOR OR TUBES AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.

9 STRATEGY USED FOR DAMPER ACTUATION: IMC 607.3.3.2.3: WHERE A SMOKE DAMPER IS INSTALLED WITHIN AN UNDUCTED OPENING IN A WALL, A SPOT-TYPE DETECTOR SHALL BE INSTALLED WITHIN 5 FEET (1524 MM) HORIZONTALLY OF THE DAMPER. THE DETECTOR SHALL BE LISTED FOR RELEASING SERVICE IF USED FOR DIRECT INTERFACE WITH THE DAMPER.

10 STRATEGY USED FOR DAMPER ACTUATION: IMC 607.3.3.2.4: WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.

11 STRATEGY USED FOR DAMPER ACTUATION: IMC 607.3.3.2.5: WHERE A SMOKE DETECTION SYSTEM IS INSTALLED IN ALL AREAS SERVED BY THE DUCT IN WHICH THE DAMPER WILL BE LOCATED, THE SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

12 ROOM DOES NOT HAVE SUITABLE CONDITIONS FOR SMOKE DETECTION. TO AVOID NUISANCE ALARMS, HEAT DETECTOR AND SPRINKLER HEAD (FLOW ALARM) WILL INITIATE DAMPER CLOSURE.