GE JOHNSON CONSTRUCTION COMPANY

Owner Change Order

Summary

Canon City Middle School
1215 Main St.
Canon City, CO 81212

Project # 1902
Tel: 719.473.5321 Fax:

G. E. Johnson Construction Company, Inc.

OCO No	Date	Description	Status	NTP	Executed	Days	Approved Amt
Contract Number: _1902-Owner. G. E. Johnson Construction Co				**Original Contract Amount:**			**$0.00**
001	11/21/2019	Amendment for Design & Preconstruction Services for Canon City Middle School	Approved	11/21/2019	12/5/2018	0	$1,716,865.00
002	1/4/2019	Amendment for Metal Buiding Scope	Approved	1/4/2019	2/27/2019	0	$1,335,194.00
003	2/18/2019	MEP & Structural Scopes	Approved	2/18/2019	3/6/2019	0	$9,033,478.00
004	5/6/2019	Amendment #4 Balance of GMP. - Includes 15 page GMP with GMP breakdown, qualifications, rental rates, hourly rates , and the 11 page GMP schedule.	Approved	5/6/2019	5/13/2019	0	$15,401,417.00
005	6/21/2019	AERCO Boiler Change and Alternate 2.0 and 7.2 Approval	Approved	6/19/2019	8/3/2019	0	$102,521.00
006	7/24/2019	Amendment for added scope of ASI-01, ASI-03 and ASI-04 related to City, State and Fire Department plan review changes	Approved	7/24/2019	8/3/2019	0	$134,725.00
007	9/10/2019	ASI-7, ASI-14, ASI-15, ASI-16 AND CONTINGENCY TO 9.10.2019	Approved	9/10/2019	9/12/2019	0	$86,994.00
008	10/23/2019	ASI-21, ASI-22, Oil Sealer Credit, Revised Schedule/delay impacts, dust proof electrical cover in wood shop, and Deleted operable partition and contingency use to 10.23.2019	Approved	10/23/2019	11/5/2019	63	$165,448.00
009	11/6/2019	Alternate 7 and 24 Approved in OAC Meeting on 11.6.2019.	Approved	11/6/2019	11/19/2019	0	$56,312.00
010	12/6/2019	Owner Change order #10 including Change Order Request numbers 11, 13 and 14	Approved	12/6/2019	12/16/2020	0	$714,375.00
011	12/26/2019	Amendment for Alternates 4.2, 5, and 6 and ASI-29	Approved	12/26/2019	1/6/2020	0	$168,626.00
012	1/27/2020	Change Including COR 016 and 017	Approved	1/27/2020	2/4/2020	0	$167,151.00
013	2/26/2020	COR 18 COR 19 and COR 20	Approved	2/26/2020	2/26/2020	0	$53,261.00
014	3/11/2020	COR 021 22 and 23	Approved	3/11/2020	7/22/2020	0	$89,808.00
015	4/22/2020	COR 24, 25 and 26	Approved	4/22/2020	4/22/2020	0	$49,320.00
016	5/19/2020	COR 27 and 28 Changes	Approved	5/19/2020	5/26/2020	0	$57,043.00
017	6/17/2020	COR 29 and 30	Approved	6/17/2020	5/26/2020	0	$23,613.00
018	7/1/2020	COR 31 and 32	Approved	7/1/2020	4/6/2020	0	$56,816.00
019	7/14/2020	COR 33 and 34	Approved	7/15/2020	6/20/2020	0	$56,329.95
020	7/29/2020	COR 35 and COR 36	Approved	7/29/2020	2/14/2020	0	$129,490.05
021	8/14/2020	COR 37 - Owner Credits for Deleted Items/Scope	Approved	8/14/2020	2/14/2020	0	-$53,660.00
022	9/9/2020	COR 38 and 39 Scope	Approved	9/9/2020	9/11/2020	0	$50,736.00
023	10/6/2020	COR 40	Approved	10/7/2020	10/15/2020	0	$6,285.00

OCO No	Date	Description	Status	NTP	Executed	Days	Approved Amt
024	11/4/2020	COR-041	Approved	11/4/2020	11/30/2020	0	$11,123.00
025	12/7/2020	COR 042	Approved	12/2/2020	1/7/2021	0	$24,257.00
026	1/5/2021	COR 43	Approved	1/5/2021	1/7/2021	0	-$7,090.00
027	2/11/2021	COR 44	Approved	2/10/2021	3/11/2021	0	-$51,300.00
028	3/30/2021	COR 45	Approved	3/30/2021	3/31/2021	56	-$11,778.00
029	5/1/2021	COR 46	Approved	4/27/2021	5/1/2021	0	$1,123.00
Total for Contract Number: _1902-Owner. G. E. Johnson Construction Company, Inc.:							$29,568,483.00
					Revised Contract Amount:		**$29,568,483.00**

RFI Log

Civil-JVA	ndsc-Design Conce	Arch-RTA	Struct-HCDA	ech-Branch Patte	lec-Branch Patter
FS-Webb			nbing-Branch Pat	Doors-Allegion	???-???

Project Name: **Canon City Middle School**
Project Number: **18012.01**
Gen Contractor: **GE Johnson**

Canon City Middle School

Log Location: **L:\02018\18012.01 Canon City SD Middle School\80ca**
RFIs: **L:\02018\18012.01 Canon City SD Middle School\80ca\rfi**
UPDATED: **6/16/2021**

	Contract review time:	***10 Days***		Consultant								
RFI No.	RFI Description	Date Received	Required Return	Date Out	Given To	Given Second	Date In	Date Out to GC	Req's CD Change?	Associated ASI	Comments
001	Pre-construction										
002	Pre-construction										
003	GF-1 Location and Area of Supply. GF-2 Not taken as alternate	03/29/19	04/08/19	04/01/19	Arch-RTA	Mech-Branch Pattern	04/01/19	04/01/19			Sent updated RFI on 4/5
004	Pre-construction										
005	Harmon Bonded Questions	04/05/19	04/15/19	04/05/19	Mech-Branch Pattern		04/15/19	04/15/19			
006	North Drive Aisle Swings Gate	04/12/19	04/22/19	04/12/19	Landsc-Design Concepts		04/15/19	04/15/19			
007	Arch Structural gridline dimension discrepancy	04/15/19	04/25/19	04/15/19	Arch-RTA		04/16/19	04/16/19			
008A	Pole height	04/23/19	05/03/19	04/23/19	Mech-Branch Pattern		04/30/19	04/30/19			
008B	Electrical device color	04/23/19	04/28/19	04/23/19	Arch-RTA		04/26/19	04/26/19			
009	Wood Stage Flooring	04/23/19	05/03/19	04/23/19	Arch-RTA		04/23/19	04/23/19			
010	Pre-Construction										
011	Harmon bonded review questions	04/30/19	05/10/19	04/30/19	Mech-Branch Pattern	Civil-JVA	05/06/19	05/06/19			
012	Ice maker location	04/30/19	05/10/19	04/30/19	Elec-Branch Pattern		05/06/19	05/06/19			
013	Air monitor at makeup air unit	04/30/19	05/10/19	04/30/19	Mech-Branch Pattern		05/08/19	05/08/19			
014	Geo-exchange loop	05/06/19	05/16/19	05/06/19	Mech-Branch Pattern		05/07/19	05/08/19			
015	Not issued										
016	Not issued										
017	Interior elevation finishes	05/10/19	05/17/19	05/10/19	Arch-RTA		05/10/19	05/10/19			
018	122 music room final design	05/10/19	05/20/19	05/10/19	Arch-RTA		08/12/19	08/12/19			
019	Exhaust fan infill detail	06/13/19	06/23/19	06/13/19	Arch-RTA		06/13/19	06/13/19			
020	Not Issued										
021	Elevator sump pit location	05/13/19	05/18/19	05/14/19	Mech-Branch Pattern	Struct-HCDA	05/17/19	05/17/19			
022	Not Issued										
023	New to existing steel connection test locations	05/21/19	05/31/19	5/21/119	Struct-HCDA		05/22/19	05/22/19			
024	Electical fitting indoor tape	05/29/19	06/08/19	05/31/19	Elec-Branch Pattern		06/03/19	06/03/19			
025	Mechanical change request	05/30/19	06/09/19								No Record of Response
026	Coordination RFC round duct and ceiling conflict	05/31/19	06/10/19	05/31/19	Mech-Branch Pattern		06/18/19	06/18/19			

RFI Log

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FS-Webb			nbing-Branch Pat	Doors-Allegion	???-???

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RFI No.	RFI Description	Date Received	Required Return	Date Out	Given To	Given Second	Date In	Date Out to GC	Req's CD Change?	Associated ASI	Comments
027	Electrical requirements for RTUs	06/02/19	06/12/19	06/03/19	Elec-Branch Pattern		06/04/19	06/04/19			
028	Not issued										
029	Not Issued										
030	Not Issued										
031	Rough-in requirements power window shades	06/05/19	06/15/19	06/05/19	Arch-RTA		06/10/19	06/10/19			
032	Gas meter	06/05/19	06/15/19	06/05/19	Arch-RTA		06/10/19	06/10/19			
033	6 inch sanitary sewer continuation	06/07/19	06/17/19	06/07/19	Plumbing-Branch Pattern	Civil-JVA	06/07/19	07/09/19			addressed in ASI 08
034	B100 existing gymnasium duct work demolition	06/07/19	06/17/19	06/07/19	Arch-RTA		06/10/19	06/10/19			
035	Area 111 window and structural coordination	06/07/19	06/17/19	06/07/19	Struct-HCDA		06/13/19	06/13/19			
036	Natural gas service discrepancy	06/11/19	06/21/19	06/11/19	Plumbing-Branch Pattern		06/12/19	06/13/19			
037	Motorized shades at common window 3.1	06/12/19	06/22/19	06/12/19	Arch-RTA		06/20/19	06/20/19			
038	AAON mechanical equipment clarifications	07/01/19	07/11/19	07/01/19	Mech-Branch Pattern		07/09/19	07/09/19			
039	Underground condenser piping	06/14/19	06/24/19	06/14/19	Mech-Branch Pattern		06/24/19	06/24/19			
040	Tunnel waterproofing	06/15/19	06/25/19	06/15/19	Arch-RTA		06/17/19	06/17/19			
041	RTU Horizontal Duct and Duct Risers	06/18/19	06/28/19	06/18/19	Arch-RTA		06/24/19	06/24/19			Sent updated response 6/26
042	Motorized shades power requirements	06/20/19	06/30/19	06/20/19	Elec-Branch Pattern		06/27/19	06/28/19			
043	Not issued										
044	Temporary Gas Lines	06/21/19	07/01/19	06/21/19	Plumbing-Branch Pattern		06/25/19	06/25/19			
045	Stucco specification	06/24/19	07/04/19	06/24/19	Arch-RTA		06/25/19	06/25/19			
046	Roof hatch	06/25/19	07/05/19	06/25/19	Arch-RTA		06/26/19	06/26/19			
047	Floor trench	06/26/19	07/06/19	06/28/19	FS-Webb		07/01/19	07/01/19			
048	Geothermal/Mechanical scope dividing line and value additions	06/26/19	07/06/19	06/28/19	Mech-Branch Pattern		07/02/19	07/03/19			
049	Duct insulation requirements	06/27/19	07/07/19	06/28/19	Mech-Branch Pattern		07/11/19	07/11/19			sent note 7/8
050	Hydronic pump inertia bases	06/27/19	07/07/19	06/28/19	Plumbing-Branch Pattern		07/09/19	07/09/19			
051	Secondary irrigation strainer deletion	07/01/19	07/11/19	07/01/19	Landsc-Design Concepts		07/03/19	07/03/19			
052	Equipment specifications	07/01/19	07/11/19	07/01/19	Arch-RTA		07/08/19	07/08/19			
053	Existing mechanical demo and infill	07/02/19	07/12/19	07/02/19	Mech-Branch Pattern	Struct-HCDA	07/11/19	07/11/19			
054	Electrical receptacle	07/02/19	07/12/19	07/02/19	Elec-Branch Pattern		07/03/19	07/03/19			

RFI Log

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055	Door type 2B	07/03/19	07/13/19	07/03/19	Arch-RTA		07/08/19	07/08/19			
056	RTU-1 Location	07/08/19	07/18/19	07/08/19	Struct-HCDA	Mech-Branch Pattern	07/11/19	07/15/19			
057	Mat lift information	07/08/19	07/18/19	07/08/19	Arch-RTA		08/30/19	08/30/19			
058	Tubular skylight device models	07/08/19	07/18/19	07/08/19	Arch-RTA		07/09/19	07/09/19			
059	WFT-7	07/09/19	07/19/19	07/09/19	Arch-RTA		07/19/19	07/19/19			
060	MAU-1 Evap cooler pump power	07/10/19	07/20/19	07/10/19	Mech-Branch Pattern	Elec-Branch Pattern	07/16/19	07/16/19			
061	Room C130 ceiling height	07/10/19	07/20/19	07/10/19	Arch-RTA		07/31/19	07/31/19			
062	Roof warranty wind speed	07/12/19	07/22/19	07/12/19	Arch-RTA		07/12/19	07/15/19			
063	Duct elevation in gym	07/12/19	07/22/19	07/12/19	Arch-RTA		07/31/19	07/31/19			
064	R8-1 Sign Type	07/15/19	07/25/19	07/15/19	Civil-JVA		07/18/19	07/18/19			
065	Area 103 Locker Room South Wall Demo	07/18/19	07/28/19	07/18/19	Struct-HCDA	RTA	07/18/19	07/18/19			
066	Storm Drain Elevation Conflict	09/12/19	09/22/19	09/13/19	Civil-JVA		09/17/19	09/17/19			
067	Electrical panel Mounting	07/24/19	08/03/19	07/24/19	Arch-RTA		07/25/19	07/25/19			
068	Area Drain Invert Elevations	08/05/19	08/15/19	08/05/19	Civil-JVA		08/02/19	08/02/19			
069	Toilet Carrier Wall Thickness	07/26/19	08/05/19	07/26/19	Arch-RTA		07/27/19	07/27/19			
070	Metal Panel Clarifications	07/26/19	08/05/19	08/05/19	Arch-RTA		08/08/19	08/08/19			
071	Structural Steel Spacing and Dimensions	07/31/19	08/10/19	07/31/19	Struct-HCDA		07/31/19	07/31/19			
072	Mock Up Section 1	08/01/19	08/11/19	08/01/19	Arch-RTA		08/08/19	08/08/19			
073	ERV Unit and Duct Structural Conflicts	08/05/19	08/15/19	08/09/18	Struct-HCDA	Mech-Branch Pattern	08/13/19	08/13/19			
074	Kitchen Plumbing Layout	08/20/19	08/30/19	08/21/19	FS-Webb		08/26/19	08/26/19			
075	Heat Pump vs Duct Conflict D328	08/19/19	08/29/19	08/19/19	Mech-Branch Pattern	RTA	09/24/19	09/24/19			
076	Pendant Light Conflict with Duct C302	08/27/19	09/06/19	08/27/19	Arch-RTA		08/27/19	08/27/19			
077	Exterior window framing detail	08/19/19	08/29/19	08/19/19	Arch-RTA		08/27/19	08/27/19			
078	West Gym Elevation Finishes	08/20/19	08/30/19	10/08/19	Arch-RTA		10/08/19	10/08/19			
079	Gym Floor Install	08/20/19	08/30/19	10/14/19	Arch-RTA		10/14/19	10/14/19			
080	Gym Ramp Sloping	08/20/19	08/30/19	09/17/19	Arch-RTA		09/17/19	09/17/19			
081	Car Charging Station	08/20/19	08/30/19	08/20/19	Elec-Branch Pattern		08/20/19	08/20/19			
082	Remote Regrigation Rack Loctation	08/22/19	09/01/19	08/22/19	Arch-RTA		08/23/19	08/23/19			

RFI Log

Civil-JVA	hdsc-Design Conce	Arch-RTA	Struct-HCDA	ech-Branch Patte	lec-Branch Patter
FS-Webb			nbing-Branch Pat	Doors-Allegion	???-???

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		Contract review time:	***10 Days***	Consultant							
RFI No.	RFI Description	Date Received	Required Return	Date Out	Given To	Given Second	Date In	Date Out to GC	Req's CD Change?	Associated ASI	Comments
083	Category 6A Cabling	08/27/19	09/06/19	08/27/19	Elec-Branch Pattern		08/27/19	08/27/19			
084	Communications Room Ladder Racking	08/27/18	09/06/18	08/27/19	Elec-Branch Pattern		09/04/19	09/04/19			
085	Corridor C302 duct and sidewall register revisions	08/28/19	09/07/19	08/30/19	Mech-Branch Pattern		09/04/19	09/13/19			
086	Clarification of Duct Liner Requirements	08/28/19	09/07/19	09/10/19	Mech-Branch Pattern		09/17/19	09/17/19			
087	Area 102 Anchor Bolt Typical Fix	09/09/19	09/19/19	09/09/19	Struct-HCDA		09/13/19	09/13/19			
088	Area 101 & 102 Existing Elevations	09/09/19	09/19/19	09/09/19	Arch-RTA		09/13/19	09/13/19			
089	Building 102 Roof Drains	09/09/19	09/19/19	09/10/19	Plumbing-Branch Pattern		11/15/19	09/11/19			
090	ASI 009-9R Questions	09/11/19	09/21/19	09/11/19	Elec-Branch Pattern		09/17/19	09/17/19			
091	Desatrification Fans at Gym	09/11/19	09/21/19	09/13/19	Mech-Branch Pattern		09/23/19	09/30/19			
092	Tall Casework Cabinets	09/12/19	09/22/19	09/12/19	Arch-RTA		09/12/19	09/13/19			
093	Submittal Compliance Guarantee Letter	09/12/19	09/22/19	09/13/19	Mech-Branch Pattern		09/17/19	09/17/19			Also send to Ken Hassett at BP
094	Area 101 Casework	09/12/19	09/22/19	09/13/19	Arch-RTA		09/13/19	09/13/19			
095	Flat Strapin Lieu of Angle	09/20/19	09/30/19	09/23/19	Arch-RTA		09/23/19	09/23/19			
096	Equipment 117, 118, and 119 in Science Room C316	09/24/19	10/04/19	10/25/19	Plumbing-Branch Pattern		10/25/19	10/25/19			
097	ASI 10 Roof Clarification	09/24/19	10/04/19	09/27/19	Arch-RTA		09/27/19	09/30/19			
098	Existing Utility Pole	09/27/19	10/07/19	09/30/18	Arch-RTA		09/30/19	09/30/19			
099	Seal Classification of Duct	09/27/19	10/07/19	09/27/19	Mech-Branch Pattern		10/02/19	10/02/19			
100	RFC-086 Duct Liner Follow Up (Return Duct)	09/27/19	10/07/19	09/30/19	FS-Webb		10/14/19	10/14/19			

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**01-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE: ARCHITECT PROJECT NO.:	**04/19/2019** **18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Project Manual:

Item ASI01-PM01

1. 12 9300 – Site Furnishings
    a. Add 20' Barrier Gate
    b. Revise twig bench product (2.01.C) to be Tournesol Siteworks TWIG bench product. Color: tbd.
    c. Revise model of 2.01.D Tree Grates to be IronSmith #4870. Revise quantity to be (3) total.

Drawings:

CIVIL

Item ASI01-C01

Sheet C002 – Demolition Plan

1. Add demolition of existing storm manhole

Item ASI01-C02

Sheet C101 – Detailed Grading and Drainage Plan

1. Add grading information to clarify design intent
2. Revise storm plan and profile reference sheet number

Item ASI01-C03

Sheet C103 – Detailed Grading and Drainage Plan

1. Add grading information to clarify design intent
2. Add spot elevations for additional concrete paving

Item ASI01-C04
Sheet C104 – Detailed Grading and Drainage Plan

1. Add grading information to clarify design intent

Item ASI01-C05
Sheet C105 – NE Courtyard Plan and Profile

1. Split original Sheet C105 (20 scale) into Sheets C105 (NE Courtyard Storm) and C106 (SW Courtyard Storm) (each 10 scale).
2. Add labels for multiple storm structures and pipes
3. Adjust slope of pipes from outlet structure to correct inv at combo inlet
4. Upsize three 6" PVC pipes to 10" PVC for roof drainage at northwest Building
5. Upsize 12" area drain to 15" area drain at walkway north of water quality pond
6. Revise label "Type C inlet" to "Outlet Structure"

Item ASI01-C06
Sheet C107 – West Bus Loop Storm Plan and Profile

1. Removed labels included on Sheets C105 & C106
2. Add callout "Storm improvements by others" at City storm line in N. 12th Street
3. Show Sanitary Line/Structures
4. Add multiple utility crossings and labels
5. Reduce slopes of West Bus Loop Storm Line
6. Call out concrete encasements at Sanitary crossings
7. Revise 12" PVC pipe to be 12" SDR-26 PVC Pipe

Item ASI01-C07
Sheet C200 – Utility Plan

1. Revise location of electrical transformer
2. Add in 2-inch water meter and copper service piping

Item ASI01-C08
Sheet C201 – Sanitary Plan and Profile

1. Add RCP Storm Crossing at STA 5+49.63
2. Add PVC Storm Crossing near building service connection
3. Revise Structure name at STA 6+44.65
4. Add cleanouts to 45 deg bends at STA 4+51.39 and 7+74.68
5. Add note "Contractor to verify" at sanitary connection to existing
6. Add callout "Connect to 4" SS Bldg Svc Inv" for courtyard sanitary line
7. Add callout "Util Crossing" at courtyard sanitary line
8. Add concrete encasements for storm crossings
9. Revise concrete encasements to encase sanitary line instead of water lines at STA 8+08.47
10. Revise note "connect to 4" ss bldg. svc" to read "connect to exist 4" ss bldg. service, contractor to pothole pipe prior to const to find inv, report findings to engineer"

Item ASI01-C09
Sheet CD200

1. Add 2" water meter detail

Item ASI01-C10
Sheet C300

1. Add concrete paving west of existing building
2. Revise location of electrical transformer concrete pad
3. Add Electric Vehicle Charging Station w/ concrete pad, two bollards, and signage

LANDSCAPE

Item ASI01-L01
Sheet L100, L101, L400, L401

1. Revise site twig bench dimensions.
2. Replace crusher fines, gray or colored as noted. Some colored concrete is also included as noted on revised L100.
3. Revise landscaping and irrigation for transformer area at SW corner of building
4. Remove notes for “Existing Trees to be Relocated”. The Owner will relocate trees.
5. Revise Planting Schedule to replace **AC MI** with **GL TR** trees.
6. Add planting bed and shrubs on the east side of the building that was previously crusher fines.

Item ASI01-L02
Sheet L500 Site Details

1. Revise detail 7/L500 so blockouts are at “6’ O.C. Max, See Plans.”

Item ASI01-L03
Sheet L501 Site Details

2. Revise sandblasting details on 1/L501 and 2/L501 as shown. Sandblasted depth to be 1/16”.

Item ASI01-L04
Sheet L502 Site Details

1. Add detail 9/L502 for 20’ Wide Double Swing Traffic Gate.

Item ASI01-L05
Sheet LI100 Irrigation Schedule and Notes

1. Add 2” backflow preventer and Strongbox enclosure for new irrigation tap in 12th St.
2. Add rain/freeze sensor to each of the (3) controllers.

Item ASI01-L06
Sheet LI101 Irrigation Plan

1. Add new 2” irrigation tap in 12th Street as shown. Connect to existing 2” mainline for existing field system. Also, see Civil.
2. Remove HDPE mainline section through the bus drive pavement, no connection is needed from the SW corner of the building to the existing mainline at the fields.
3. Add drip line and sleeving to new planting bed (formerly crusher fines) near the northeast side of the building.
4. Adjust zone at SW corner of building for new transformer and pad.
5. Add a rain/freeze sensor to each of the (3) controllers.

Item ASI01-L07
Sheet LI501Irrigation Details

1. Add detail 8/LI101 for new exterior 2” backflow preventer and enclosure.

ARCHITECTURAL

Item ASI01-A01 – clear wall cavity for toilet carrier
Sheet A102, A103, A111, A121

1. Added cavity space for carriers of wall mounted toilets in staff restrooms

Item ASI01-A02 – RCP revisions
Sheet AC101, AC102, AC103, AC111, AC121, AC122

1. Revised lighting layouts per budget discussions
2. Added light fixture layout dimensions to RCPs

STRUCTURAL

Item ASI01-S01
Sheet S102 – AREA 2 FOUNDATION PLAN

7. Move grid L1 ½" to the south.
8. Move grid M.2 ¼" to the south.
9. Remove note at footing located at grid intersection 3-M.2
10. Remove note at footing located at grid intersection 1-L.1

Item ASI01-S02
Sheet S122 – AREA 2 SECOND LEVEL FRAMING PLAN

1. Move grid L1 ½" to the south.
2. Move grid M.2 ¼" to the south.

Item ASI01-S03
Sheet S132 – AREA 2 ROOF FRAMING PLAN

1. Move grid L1 ½" to the south.
2. Move grid M.2 ¼" to the south.
3. Change beam on grid 4 between grids L.7 and L to W14x22.

Item ASI01-S04
Sheet S133 – AREA 3 ROOF FRAMING PLAN

1. Change dimension to stud fascia in Detail 1/S133.
2. Cut detail 13A/S202 on High roof framing plan.
3. Change dimensions to south skewed beam at high roof framing plan.
4. Change dimension to W10x22 at north edge of high roof framing plan.

Item ASI01-S05
Sheet S202 – DETAILS

1. Change dimension at 13A/S202.

MECHANICAL

Item ASI01-M01
Sheets M102 – MAIN LEVEL HVAC PLAN – AREA 102

1. Altered cabinet unit heater tag to CUH-7 to correctly reflect schedule.

Item ASI01-M02
Sheets M103 – MAIN LEVEL HVAC PLAN – AREA 103

1. Altered cabinet unit heater tag to CUH-8 to correctly reflect schedule.

Item ASI01-M03
Sheets M160 – OVERALL ROOF MECHANICAL PLAN

1. Relocated CU-2 and CU-1.

Item ASI01-M04
Sheets M203, M211, M221, M222

1. Added isolation valves to hydronic branches.

Item ASI01-M05
Sheets M301 – ENLARGED MECHANICAL PLANS

1. Altered keynote 2.

Item ASI01-M06
Sheets M601 – MECHANICAL DETAILS

1. Altered HYDRONIC HEADER detail.

Item ASI01-M07
Sheets M701 – MECHANICAL SCHEDULES
1. Altered P-3, 4 performance characteristics.
2. Clarified split system locations.

Item ASI01-M08
Sheets M701 – MECHANICAL SCHEDULES
1. Altered heat pump schedule.

PLUMBING

Item ASI01-P01
Sheets P100 – UNDERFLOOR PLUMBING PLAN – AREA 101
1. Revised sanitary piping size to accommodate connection to floor drain associated with emergency shower installed on Main Level.

Item ASI01-P02
Sheets P101 – LOWER LEVEL PLUMBING PLAN – AREA 101
1. Revised sanitary piping size to accommodate connection to floor drain associated with emergency shower installed on Upper Level.
2. Revised water entry detail to adhere to city comment requiring tee to irrigation line location downstream of main backflow preventer.
3. Revised routing of domestic cold-water piping to maintain existing tap and backflow preventer serving existing plumbing loads through Phase 1, rather than routing new piping connection – per GC coordination comments.

Item ASI01-P03
Sheets P102 – MAIN LEVEL PLUMBING PLAN – AREA 101
1. Added sanitary, domestic cold water, domestic hot water, and hot water circ connections to emergency shower located on Upper floor.
2. Extended hot water circulation lines to serve sinks throughout Main and Upper floors.

Item ASI01-P04
Sheets P103 – UPPER LEVEL PLUMBING PLAN – AREA 101
1. Added sanitary, domestic cold water, domestic hot water, and hot water circ connections to emergency shower.
2. Extended hot water circulation lines to serve sinks at D323.
3. Relocated hot water circulation balancing valves at restroom group.

Item ASI01-P05
Sheets P120 – UNDERFLOOR PLUMBING PLAN – AREA 102
1. Added note to provide shut-off valve at natural gas connection up from below grade.
2. Added note to 6” ST connection to civil.
3. Revised location of underground Grease Interceptor.
4. Added 3” sanitary connection to Fluid Cooler.

Item ASI01-P06
Sheets P121 – MAIN LEVEL PLUMBING PLAN – AREA 102
1. Added 1” CW piping and 1” RPBP for make-up water connection to Fluid Cooler.
2. Added 3/4” HW, 3/4" HWC, and 2” SAN connection to sink at Upper Floor.
3. Relocated hot water circulation balancing valves at restroom group.

Item ASI01-P07
Sheets P122 – UPPER LEVEL PLUMBING PLAN – AREA 102
1. Added 3/4" CW, 3/4” HW, 3/4" HWC, 2” SAN, and 1-1/2” vent connection to sink at C310 Teacher Collab.

Item ASI01-P08
Sheets P200 – OVERALL ROOF PLUMBING PLAN

1. Added 3” VTR associated with sink at C310 Teacher Collab.

Item ASI01-P09
Sheets P601 – PLUMBING DETAILS

1. Modified Fire Entry Detail 5 to clarify Backflow Preventer as detector type.

Item ASI01-P010
Sheets P701 – PLUMBING SCHEDULES

1. Modified DCBP-1 to be detector check model type.
2. Added clarifying note to gas one-line diagram to provide pressure regulators as required by equipment manufacturer.

ELECTRICAL

Item ASI01-E01 – Lighting Layout Adjustments
Sheet E201, E202, E203, E211, E221, E222 – MAIN LEVEL LIGHTING PLAN – AREA 101

1. Changed S1E fixtures to S2E fixtures in stairwells.
2. Removed Sconce fixture from bathrooms and replaced with D1 fixtures.
3. Adjusted all corridor lighting
4. Adjusted commons lighting
5. Changed lighting in fitness area from S1E to S2E fixtures.
6. Adjusted library lighting.
7. Adjusted maker space D322 and science room D323 lighting.
8. Added P4 fixtures in main level of connector.

Attachments:
Project Manual: list
Drawings: list

CC:

SUBMITTED BY:

Signature	Printed Name and Title

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**02-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**05/17/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Project Manual:

Item ASI02-PM01 (2015 IECC Duct and Piping Insulation Requirements)

1. 23 0700 – HVAC Insulation
    a. The text for 3.20-A.1 added "Insulation Conductivity 0.21-0.27 BTU-in./(hr-ft2-deg F)."
    b. The text for 3.20-B added "Insulation Conductivity 0.21-0.27 BTU-in./(hr-ft2-deg F)."
    c. The text for 3.20-C added "Insulation Conductivity 0.25-0.29 BTU-in./(hr-ft2-deg F)."
    d. The text for 3.16-A.1 is revised as follows: "Mineral-Fiber Blanket: 1-1/2 inches thick and 1.5-lbs/cu.ft. nominal density for a R value of 12.0 minimum."
    e. The text for 3.16-B.1 is revised as follows: "Internally lined fibrous glass, type I, 1-1/2 inches thick and 1.5-lbs/cu.ft. nominal density for a R value of 12.0 minimum."
    f. The text for 3.16-F.1 is revised as follows: "Mineral-Fiber Blanket: 1-1/2 inches thick and 1.5-lbs/cu.ft. nominal density for a R value of 12.0 minimum."
    g. The text for sections 3.16-D, E, G, I, and J added "Minimum R value to be 12.0 minimum."

2. 23 3113 Metal Ducts, 2.4.
    a. The text for 3.16-A added: 4. Liner shall be 1-1/2 inches thick and 1.5-lbs/cu.ft. nominal density for a R value of 12.0 minimum."

Drawings:

ARCHITECTURAL

Item ASI02-A01 – Code Sheet Updates

Sheet G110

1. Added total project square footage by level
2. Added full maximum floor area square footage calculation

Item ASI02-A02 – Locker Room Revisions
Sheet A401

1. Door B111-A and door B116-A moved to provide direct access to private restroom from main locker room space
2. Provided additional clearance dimensions in locker room restrooms and showers and revised shower configurations to achieve clear floor area for transfer showers.

MECHANICAL

Item ASI02-M01 – (Duct Smoke Detectors)
Sheets M701

1. Added note “provide smoke detector in accordance with 2015 IMC/606.2” to rooftop unit schedule and makeup air unit schedule.

ELECTRICAL

Item ASI02-E01 – (Daylighting Zones)
Sheet E201, E202, E203, E211, E221, E222

1. Daylighting zone areas were added to lighting plans

Item ASI02-E02 – (Emergency Lighting and Exterior Egress Landings)
Sheet E100

1. Emergency lighting was added to all exterior landings

TECHNOLOGY

Item ASI02-T01 (Carbon Monoxide Detection in Gym)
Sheet T203

1. Added Carbon Monoxide detectors in gymnasium B100.

Attachments:
Project Manual: Section 23 0700 and Section 23 3113
Drawings: G110, A401, M701, E100, E201, E202, E203, E211, E221, E222, T203

SUBMITTED BY:

	Christine Costa, RA
Signature	Printed Name and Title

19 South Tejon Street, Suite 300 - Colorado Springs, CO 80903 - Tel: 719-471-7566 Fax: 719-471-1174

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**03-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/05/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Drawings:

Item ASI03-A03
Sheet E202 – MAIN LEVEL LIGHTING PLAN – AREA 102
1. Changed switch legs. Control lighting at presentation wall separately from rest of classroom.

Item ASI03-A03
Sheet E203 – MAIN LEVEL LIGHTING PLAN – AREA 103
1. Change keyed switches in Gymnasium B100 to dimming switches.
2. Change switch in Fitness/Weight Room B114 to a dimming switch.
3. Change switch in Reception A142 to a dimming switch.
4. Provide dimming switch for Front Office/Reception A110.

Item ASI03-A03
Sheet E701 – ELECTRICAL SCHEDULES
1. Changed light fixture Type S2E to be equipped with a dimming driver.

Item ASI03-M01
Sheet M101 – MAIN LEVEL HVAC PLAN – AREA 101
1. Acoustical liner information added to necessary heat-pumps per LEED prerequisite.
2. Supply diffuser type altered to pursue LEED comfort credit

Item ASI03-M02
Sheet M102 – MAIN LEVEL HVAC PLAN – AREA 102
1. Acoustical liner information added to RTU-1 duct per LEED prerequisite.
2. Supply diffuser type altered to pursue LEED comfort credit.

Item ASI03-M03
Sheet M103 – MAIN LEVEL HVAC PLAN – AREA 103
1. Acoustical liner information added to RTU-2 and RTU-3 duct per LEED prerequisite.
2. Sound attenuators added to RTU-2 and RTU-3 duct per LEED prerequisite.
3. Supply diffuser type altered to pursue LEED comfort credit.

Item ASI03-M04
Sheet M111 – UPPER LEVEL 1 HVAC PLAN – AREA 111

1. Acoustical liner information added to necessary heat-pumps per LEED prerequisite.

Item ASI03-M05
Sheet M121 – UPPER LEVEL 2 HVAC PLAN – AREA 121

1. Acoustical liner information added to necessary heat-pumps per LEED prerequisite.

Item ASI03-M06
Sheet M122 – UPPER LEVEL 2 HVAC PLAN – AREA 122

1. Acoustical liner information added to RTU-1 duct per LEED prerequisite.
2. Sound attenuators added to RTU-1duct per LEED prerequisite.
3. Acoustical liner information added to necessary heat-pumps per LEED prerequisite.
4. Supply diffuser type altered to pursue LEED comfort credit.

Item ASI03-M07
Sheet M301 – ENLARGED MECHANICAL PLANS

1. Acoustical liner information added to ERV-1 and ERV-2 duct per LEED prerequisite.

Item ASI03-M08
Sheet M701 – MECHANICAL SCHEDULES

1. RTU-1 outside air volumetric flow rate clarified in response to LEED documentation.
2. Additional supply diffuser scheduled in order to pursue LEED comfort credit.

Item ASI03-M09
Sheet M702 – MECHANICAL SCHEDULES

1. HP-2-1-4 outside air volumetric flow rate clarified in response to LEED documentation.
2. Sound attenuator schedule added in response to LEED prerequisite.

Item ASI03-M10
Sheet M703 – MECHANICAL SCHEDULES

1. ERV-4 zone description clarified for LEED documentation.

Item ASI03-M11
Sheet M705 – MECHANICAL SCHEDULES

1. Ventilation unit reference and zone reference clarified for LEED documentation.

Attachments:
Project Manual: list
Drawings: list

CC:

SUBMITTED BY:

	Christine Costa, RA
Signature	Printed Name and Title

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**04-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/07/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

ARCHITECTURAL
Item ASI04-A01 – Code Sheet Updates
Sheet G110

1. Added lock to the FDC
2. Added a knox box for the elevator

CIVIL
Item ASI04-C01
Sheet C102, C104, C200, C201, C300 C301

1. Adjusted the radius of curb c44, c25 and c26
2. Added label to the pavement striping at the community health center handicapped parking spots
3. Adjusted the grease trap location and connections to match plumbing.

ELECTRICAL
Item ASI04-E01 – Panel Locations
Sheet E101, E103

1. Adjusted the location of the main fire alarm panel, the annunciator panel, and the two way communication panel.

Attachments:
Project Manual: Section 23 0700 and Section 23 3113
Drawings: G110, C102, C104, C200, C201, C300 C301, E101, E103

SUBMITTED BY:

Signature

Christine Costa, RA
Printed Name and Title

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**05-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/07/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Drawings:

STRUCTURAL

Item ASI05-S01
Sheet S001, S101
1. Added typical elevator sump pit detail to match elevator shop drawings
2. Revised elevator foundation to match elevator shop drawings

Item ASI05-S02
Sheet S102
1. Removed grade beam

Item ASI05-S03
Sheet S103
1. Added foundation detail to brick infill at locker room wall
2. Changed baseplate dimension from 1'-2" to 1'-4" at 2B S103

Item ASI05-S04
Sheet S111
1. Removed note to add welded shim plate to the W8x18

Item ASI05-S05
Sheet S122, S133
1. Added dimensions as indicated.
2. Added note that sunshades are to be AESS2

Item ASI05-S06
Sheet S131
1. Added dimension for hoist beam to match elevator shop drawings

Item ASI05-S07
Sheet S201
1. Added lintel for full width elevator opening

ELECTRICAL

Item ASI05-E01
Sheet E101 – MAIN LEVEL POWER PLAN – AREA 101
3. Added power connection to motorized shades

Item ASI05-E02
Sheet E102 – MAIN LEVEL POWER PLAN – AREA 102
1. Added power connection to motorized shades.
2. Change switch in Fitness/Weight Room B114 to a dimming switch.

Item ASI05-E03
Sheet E103 – MAIN LEVEL POWER PLAN – AREA 103
1. Added power connection to motorized shades.

Item ASI05-E04
Sheet E201 – MAIN LEVEL LIGHTING PLAN – AREA 101
1. Room D115 – Change two (2) D1's to D1E (as shown in 100% CD's)
2. Room D112A – Change one (1) D1 to D1E
3. Room D116 - Change two (2) D1's to D1E (as shown in 100% CD's)

Item ASI05-E05
Sheet E202 – MAIN LEVEL LIGHTING PLAN – AREA 102
1. Room C127 – Change one (1) D1 to D1E (as shown in 100% CD's)
2. Room C128 - Change one (1) D1 to D1E (as shown in 100% CD's)

Item ASI05-E06
Sheet E203 – MAIN LEVEL POWER PLAN – AREA 103
1. Room D325 - Change one (1) D1 to D1E (as shown in 100% CD's)
2. Room B115 - Change five (5) D1 to D1E (as shown in 100% CD's)
3. Room B112 – Change four (4) D1 to D1E (as shown in 100% CD's)
4. Room D309 – Change one (1) D1 to D1E (as shown in 100% CD's)
5. Corridor A103 – Change four (4) P5's to P5E

Item ASI05-E07
Sheet E211 – UPPER LEVEL POWER PLAN – AREA 111
1. Room D225 – Change one (1) D1 to D1E (as shown in 100% CD's)
2. Room D224 - Change one (1) D1 to D1E (as shown in 100% CD's)

Item ASI05-E08
Sheet E221 – UPPER LEVEL POWER PLAN – AREA 121
1. Room D320 - Change one (1) D1 to D1E
2. Room D321 - Change one (1) D1 to D1E

Item ASI05-E09
Sheet E222 – UPPER LEVEL POWER PLAN – AREA 122
1. Room C318 – Change one (1) D1 to D1E (as shown in 100% CD's)
2. Room C319 - Change one (1) D1 to D1E (as shown in 100% CD's)

Item ASI05-E10
Sheet E502 – NEW ELECTRICAL ONE-LINE DIAGRAM
1. Provide 300A circuit breaker in switchboard MSB for RTU #1.

Item ASI05-E11
Sheet E701 – ELECTRICAL SCHEDULES

1. Change RTU-1 Circuit Breaker for 200A to 300A & change branch circuiting from (3)#3/0, (1) #6G., 2" C. to (3)350kCMIL, (1)#4G,3"C. Delete disconnect – RTU provided with disconnect.
2. Change RTU-2 Circuit Breaker from 40A/3P to 45A/3P – (no change to the branch circuiting). Delete disconnect – RTU provided with disconnect.
3. Change RTU-3 Circuit Breaker from 40A/3P to 45A/3P – (no change to the branch circuiting). Delete disconnect – RTU provided with disconnect.

Item ASI05-E12
Sheet E702 – ELECTRICAL SCHEDULES

1. Change Elevator Circuit Breaker from 100A/3P to 125A/3P in Panel MA1

Item ASI05-A13
Sheet E703 – ELECTRICAL SCHEDULES

1. Change RTU-2 Circuit Breaker from 20A/3P to 45A/3P in Panel MA1
2. Change RTU-3 Circuit Breaker from 20A/3P to 45A/3P in Panel MA1

Attachments:
Drawings: S001, S101, S102, S103, S111, S122, S131, S133, S201, E101, E102, E103, E201, E202, E203, E211, E221, E222, E502, E701, E702, E703

CC:

SUBMITTED BY:

	Christine Costa, RA
Signature	Printed Name and Title

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**06-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/12/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Drawings:

Item ASI06-M01
Sheet M103 – MAIN LEVEL HVAC PLAN – AREA 103
1. Added annotations to transfer duct.
2. Added general note and TRANSFER DUCT schedule for sizing requirements.

Item ASI06-M02
Sheet M111 – UPPER LEVEL 1 HVAC PLAN – AREA 111
1. Altered size of combustion air flue according to approved boiler submittal. Altered annotation in keynotes.

Item ASI06-M03
Sheet M121 – UPPER LEVEL 2 HVAC PLAN – AREA 121
1. Altered size of combustion air flue according to approved boiler submittal. Altered annotation in keynotes.

Item ASI06-M04
Sheet M160 – OVERALL ROOF MECHANICAL PLAN
1. Altered size of combustion air flue according to approved boiler submittal. Altered annotation in keynotes.

Item ASI06-M05
Sheet M201 – MAIN LEVEL HYDRONIC PLAN – AREA 101
1. Provided additional pipe sizing annotation for clarification.

Item ASI06-M06
Sheet M203 – MAIN LEVEL HYDRONIC PLAN – AREA 103
1. Provided additional pipe sizing annotation for clarification.
2. Added 3-Way valve.

Item ASI06-M07
Sheet M211 – UPPER LEVEL 1 HYDRONIC PLAN – AREA 111

1. Provided additional pipe sizing annotation for clarification.

Item ASI06-M08
Sheet M221 – UPPER LEVEL 2 HYDRONIC PLAN – AREA 121

1. Provided additional pipe sizing annotation for clarification.
2. Revised pipe size of branch section.
3. Added 3-Way valve.

Item ASI06-M09
Sheet M222 – UPPER LEVEL 2 HYDRONIC PLAN – AREA 122

1. Clarified HP-2-3-5 annotation.
2. Revised pipe size of branch section.
3. Added 3-Way valve.

Item ASI06-M10
Sheet M301 – ENLARGED MECHANICAL PLANS

1. Altered size of combustion air flue according to approved boiler submittal.

Item ASI06-M11
Sheet M501 – MECHANICAL SCHEMATICS

1. Provided additional design information for heat tape on exposed piping.

Item ASI06-M12
Sheet M703 – MECHANICAL SCHEDULES

1. Provided flowrates for ERV-4.

Attachments:
Project Manual: list
Drawings: list

CC:

SUBMITTED BY:

Signature	Christine Costa, RA Printed Name and Title

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**07-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/24/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Drawings:

See attached Sketch to provide venting at location of existing gas tank.

Attachments:
Project Manual: list
Drawings: list

CC:

SUBMITTED BY:

Signature

Rick Taves DCT ICC
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**08-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/28/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Item

Sheet C002 – Demolition Plan

1. Delete abandonment of east existing SS service and add callout "PROTECT EXIST SS UTIL"

Sheet C200

1. Add two 45-degree bends to 6" DIP Fire Service to align with MEP building service connection
2. Add two 45-degree bends to 3" Domestic Water Service to align with MEP building service connection

Sheet P100

1. Redirect connection to sanitary drains in area 101 and connect to southeast existing drain.

Attachments:
Drawings: C002, C200, P100

Rick Taves
6/28/2019

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**09-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**08/20/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Drawings:

Item ASI09-E1
Sheet E101 – MAIN LEVEL POWER PLAN – AREA 101

1. Added power to MDF Room D122.
2. Removed receptacle height indication of 72" for receptacles in front of classrooms.
3. Provided or moved receptacles to inside AV closets in classrooms for voice lift system.

Item ASI09-E2
Sheet E102 – MAIN LEVEL POWER PLAN – AREA 102

1. Added power to IDF Room C114.
2. Removed receptacle height indication of 72" for receptacles in front of classrooms.
3. Provided or moved receptacles to inside AV closets in classrooms for voice lift system

Item ASI09-E3
Sheet E103 – MAIN LEVEL POWER PLAN – AREA 103

1. Added power to IT Room A146.
2. Added power to IT Room A125.

Item ASI09-E4
Sheet E111 – UPPER LEVEL 1 POWER PLAN -AREA 111

1. Removed receptacle height indication of 72" for receptacles in front of classrooms.
2. Provided or moved receptacles to inside AV closets in classrooms for voice lift system

Item ASI09-E5
Sheet E121 – UPPER LEVEL 2 POWER PLAN- AREA 121

1. Removed receptacle height indication of 72" for receptacles in front of classrooms.
2. Provided or moved receptacles to inside AV closets in classrooms for voice lift system.

Item ASI09-E6
Sheet E122 – UPPER Level 2 Power Plan – Area 122

1. Removed receptacle height indication of 72” for receptacles in front of classrooms.
2. Provided or moved receptacles to inside AV closets in classrooms for voice lift system.

Item ASI09-E7

Sheet E703 – Electrical Schedules

1. Revised panel schedules RC, RA1, & RB1.

Item ASI09-T1

Sheet T001 – TECHNOLOGY LEGENDS AND NOTES

1. Revised Responsibility Matrix.
2. Revised device descriptions for data, camera, display, and wireless access symbols to update cable requirements per owner request.
3. Added symbol for Bluetooth receivers.
4. Added symbol for Voice Lift.

Item ASI09-T2

Sheet T101 – MAIN LEVEL TECHNOLOGY PLAN – AREA 101

1. Removed display data receptacles at front of classrooms.
2. Removed HDMI inputs to displays.
3. Removed “future” data outlet rough-in locations from classrooms.
4. Removed Keynote #1 symbol from southwest classroom.
5. Revised Keynote #1 legend description.
6. Revised wireless access point locations and quantities.
7. Added second data workstation location in classrooms.
8. Added second data workstation location in the Library.
9. Added Voice Lift locations in classrooms.
10. Added Bluetooth receiver locations in classrooms.

Item ASI09-T3

Sheet T102 – MAIN LEVEL TECHNOLOGY PLAN – AREA 102

1. Revised Keynote #1 legend description.
2. Added Voice Lift location in Office C130A.

Item ASI09-T4

Sheet T103 – MAIN LEVEL TECHNOLOGY PLAN – AREA 103

1. Removed data outlets in Reception A142 and Office A143.
2. Revised Keynote #1 legend description to “not used”.
3. Revised wireless access point locations and quantities.
4. Added data outlet in Fitness/Weight room B114.

Item ASI09-T5

Sheet T111 – UPPER LEVEL 1 TECHNOLOGY PLAN- AREA 111

1. Removed display data receptacles at front of classrooms.
2. Removed HDMI inputs to displays.
3. Removed “future” data outlet rough-in locations from classrooms.
4. Revised Keynote #1 legend description.
5. Revised wireless access point locations and quantities.
6. Added second data workstation location in classrooms.
7. Added data outlet to Large Group D220, SPED Conference Room D227, and Teacher Collab D226.
8. Added Voice Lift locations in classrooms.
9. Added Bluetooth receiver locations in classrooms.

Item ASI09 – T6

Sheet T121 – UPPER LEVEL 2 TECHNOLOGY PLAN – AREA 121

1. Removed display data receptacles at front of classrooms.
2. Removed HDMI inputs to displays.
3. Removed “future” data outlet rough-in locations from classrooms.
4. Revised Keynote #1 legend description.
5. Revised wireless access point locations and quantities.

6. Added second data workstation location in classrooms.
7. Added data outlet to Teacher Collab D316, Maker D322, and Science D323.
8. Added Voice Lift locations in classrooms.
9. Added Bluetooth receiver locations in classrooms.

Item ASI09- T7

Sheet T122 – UPPER LEVEL 2 TECHNOLOGY PLAN – AREA 122

1. Removed display data receptacles at front of classrooms.
2. Removed HDMI inputs to displays.
3. Removed "future" data outlet rough-in locations from classrooms.
4. Revised Keynote #1 legend description.
5. Revised wireless access point locations and quantities.
6. Added second data workstation location in classrooms.
7. Added data outlet to Teacher Collab C310.
8. Added Voice Lift locations in classrooms.
9. Added Bluetooth receiver locations in classrooms.

Item ASI09- T8

Sheet T503 – SIGNAL FLOW DIAGRAMS

1. Revised detail #3 and #4 to reflect Voice Lift system changes and provide further detail.

Item ASI09- T9

Specification Section – 275113 CLASSROOM SOUND REINFORCEMENT SYSTEM

1. Replace this section in its entirety.

Item ASI09- T10

Specification Section – 271513 COMMUNICATIONS CABLING

1. Revised Part 2 – Products based on owner requested cable changes and to add cable types for underground backbone cables between closets.

Attachments:

Project Manual:

Specification 275113 – Classroom Sound Reinforcement System, Specification 271513 – Communications Cabling.

Drawings:

Sheet E101 -Main Level Power Plan – Area 101, Sheet E102 – Main Level Power Plan – Area 102, Sheet E103 – Main Level Power Plan – Area 103, Sheet E111 – Upper Level 1 Power Plan – Area 111, Upper Level 2 Power Plan – Area 121, Sheet E122 – Upper Level 2 Power Plan – Area 122, Sheet E703 – Electrical Schedules, Sheet T001 – Technology Legends and Notes, Sheet T101 – Main Level Technology Plan – Area 101, Sheet T102 – Main Level Technology Plan – Area 102, Sheet T103 – Main Level Technology Plan – Area 103, Sheet T111 – Upper Level 1 Technology Plan- Area 111, Sheet T121 – Upper Level 2 Technology Plan – Area 121, Sheet T122 – Upper Level 2 Technology Plan – Area 122, Sheet T503 – Signal Flow Diagrams.

CC:

SUBMITTED BY:

	Rick Taves
Signature	Construction Administrator

SECTION 27 1513
COMMUNICATIONS CABLING

PART 1 - GENERAL

1.01 SUMMARY

A. The purpose of this section is to provide direction for the products and installation practices for the structured cabling system, including horizontal cabling, fiber optic and copper backbone cabling, and unbalanced cabling.

B. Section Includes:

1. Category 6 twisted pair cable.
2. Category 6a twisted pair cable.
3. Twisted pair cable hardware, including plugs, jacks, patch panels, and cross-connects.
4. Source quality control requirements for twisted pair cable.
5. 850 nanometer laser-optimized 50/125 micrometer multimode optical fiber cable (OM4).
6. Optical fiber cable connecting hardware, patch panels, and cross-connects.

2.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Related Requirements:

1. Section 270526 "Grounding and Bonding for Telecommunications Equipment" for TMGBs and TGBs.
2. Section 270536 "Pathways for Communications Systems" for cable trays and cable tray accessories.
3. Section 271116 "Communications Spaces" for equipment racks and wire management.
4. Section 271533 "Identification for Communications Systems" for labeling and identification.
5. Section 270500 "Common Work Results".

3.01 SUBMITTALS

A. ACTION SUBMITTALS

1. Product Data: For each type of product.
2. Shop Drawings:
    a. Cabling administration Drawings and printouts.
    b. Wiring diagrams and installation details of telecommunications equipment, to show location and layout of telecommunications equipment, including the following:
        1) Telecommunications rooms plans.
        2) Telecommunications pathways.
        3) Telecommunications system access points.
        4) Telecommunications grounding system.
        5) Telecommunications conductor drop locations.
        6) Cross-connects.
        7) Patch panels.
        8) Patch cords.
    c. Cross-Connects and Patch Panels: Detail mounting assemblies and show elevations and physical relationship between the installed components.
3. Twisted pair cable testing plan.

B. INFORMATIONAL SUBMITTALS

1. Qualification Data: For installation supervisor and field inspector.
2. Product Certificates: For each type of product.
3. Source quality-control reports.

4. Field quality-control reports.

C. CLOSEOUT SUBMITTALS

1. Maintenance Data: For cables, splices, and connectors to include in maintenance manuals.
2. Shop Drawings: Provide digital and scaled hard copy of final system design (as-built drawings) showing:

1) Telecommunications rooms.
2) Telecommunications pathways.
3) Telecommunications system access points.
4) Telecommunications grounding system.
5) Telecommunications conductor drop locations.
6) Cross-connects.
7) Patch panels.
8) Cable label designations.

D. MAINTENANCE MATERIAL SUBMITTALS

1. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

a. Faceplates: 5 of any type used for more than 25% of the drop locations.
b. Jacks: 10 of each type.
c. Patch Cables: 25% spare of each type.

4.01 QUALITY ASSURANCE

A. Installer Qualifications: Cabling Installer must have personnel certified by BICSI on staff.

1. Installation Supervision: Installation shall be under the direct supervision of BICSI Level 2 Installer, who shall be present at all times when Work of this Section is performed at Project site.

PART 2 - PRODUCTS

1.01 PERFORMANCE REQUIREMENTS

A. HORIZONTAL CABLING

1. General Performance: Horizontal cabling system shall comply with transmission standards in TIA-568-C.1, when tested according to test procedures of this standard.
2. Telecommunications Pathways and Spaces: Comply with TIA-569-D.
3. Grounding: Comply with TIA-607-B.

B. COPPER BACKBONE CABLING

1. General Performance: Backbone cabling system shall comply with transmission standards in TIA-568-C.1, when tested according to test procedures of this standard.
2. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

a. Flame-Spread Index: 25 or less.

3. Telecommunications Pathways and Spaces: Comply with TIA-569-D.
4. Grounding: Comply with TIA-607-B.

C. FIBER BACKBONE CABLING

1. General Performance: Backbone cabling system shall comply with transmission standards in TIA-568-C.1, when tested according to test procedures of this standard.

2. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
    a. Flame-Spread Index: 25 or less.
3. Telecommunications Pathways and Spaces: Comply with TIA-569-D.
4. Grounding: Comply with TIA-607-B.

2.01 GENERAL CABLE CHARACTERISTICS

A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with the applicable standard and NFPA 70 for the following types:
    1. Communications, Plenum Rated: Type CMP complying with UL 1685

B. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
    1. Flame-Spread Index: 25 or less.

C. RoHS compliant.

3.01 HORIZONTAL CABLE AND CONDUCTORS

A. CATEGORY 6 TWISTED PAIR CABLE
1. To be used only for all workstation area outlets and surveillance camera outlets.
2. Description: Four-pair, balanced-twisted pair cable, with internal spline, certified to meet transmission characteristics of Category 6 cable at frequencies up to 250MHz.
3. Approved Manufacturers:
    a. Belden
    b. Commscope
    c. Hitachi Cable America
    d. Hubbell Premise
    e. Panduit
4. Standard: Comply with NEMA WC 66/ICEA S-116-732 and TIA-568-C.2 for Category 6 cables.
5. Conductors: 100-ohm, 23 AWG solid copper.
6. Shielding/Screening: Unshielded twisted pairs (UTP)
7. Cable Rating: Plenum
8. Jacket:
    a. Surveillance – Green thermoplastic.
    b. Data (Workstation Outlets) – Blue thermoplastic.

B. CATEGORY 6A TWISTED PAIR CABLE
1. To be used for all digital signage and wireless access point outlets.
2. Description: Four-pair, balanced-twisted pair cable, with internal spline, certified to meet transmission characteristics of Category 6a cable at frequencies up to 500MHz.
3. Approved Manufacturers:
    a. Belden
    b. Commscope
    c. Hitachi Cable America
    d. Hubbell Premise
    e. Panduit
4. Standard: Comply with TIA-568-C.2 for Category 6a cables.
5. Conductors: 100-ohm, 23 AWG solid copper.

6. Shielding/Screening: Unshielded twisted pairs (UTP) or Screened twisted pairs (F/UTP)
7. Cable Rating: Plenum
8. Jacket:
    a. Data (Digital Signage Outlets) - Blue thermoplastic.
    b. Wireless Access Point Outlets - White thermoplastic.

4.01 COPPER BACKBONE CABLE AND CONDUCTORS

A. CATEGORY 6 TWISTED PAIR CABLE

1. Description: Four-pair, balanced-twisted pair cable, certified to meet transmission characteristics of Category 6 cable at frequencies up to 250MHz.
2. Approved Manufacturers:
    a. Belden
    b. Commscope
    c. Hitachi Cable America
    d. Hubbell Premise
    e. Panduit
3. Standard: Comply with NEMA WC 66/ICEA S-116-732 and TIA-568-C.2 for Category 6 cables.
4. Conductors: 100-ohm, 23 AWG solid copper.
5. Shielding/Screening: Unshielded balanced twisted pairs (UTP)
6. Cable Rating:
    a. Indoor: Plenum
    b. Outdoor, In-slab, or Underground: Outside Plant (OSP) or Indoor/Outdoor (I/O).
7. Jacket:
    a. Indoor Plenum – Gray thermoplastic
    b. Outdoor, In-slab, or Underground (OSP or I/O) – Black

5.01 FIBER OPTIC BACKBONE CABLE AND CONDUCTORS

A. 850 NANOMETER LASER-OPTIMIZED, 50/125 MICROMETER, MULTIMODE OPTICAL FIBER CABLE (OM4)

1. Description: Multimode, 50/125-micrometer, 6 and 12 fiber, tight buffer, optical fiber cable.
2. Approved Manufacturers:
    a. Belden
    b. Commscope
    c. Corning
    d. Hitachi Cable America
    e. Hubbell Premise
    f. Panduit
3. Standards:
    a. Comply with ICEA S-83-596 for mechanical properties.
    b. Comply with TIA-568-C.3 for performance specifications.
    c. Comply with TIA-492AAAD for detailed specifications.
4. Conductive cable shall be aluminum armored type.
5. Maximum Attenuation: 3.50 dB/km at 850 nm; 1.5 dB/km at 1300 nm.
6. Minimum Overfilled Modal Bandwidth-length Product: 3500 MHz-km at 850 nm; 500 MHz-km at 1300 nm.
7. Minimum Effective Modal Bandwidth-length Product: 4700 MHz-km at 850 nm.
8. Cable Type/Rating:
    a. Indoor: Interlocking Armor Plenum

b. Outdoor, In-slab, or Underground: Armored Outside Plant (OSP)

9. Jacket:

a. Jacket:

1) Indoor Plenum – Aqua
2) Outside Plant (OSP) – Black

b. Cable cordage jacket, fiber, unit, and group color shall be according to TIA-598-D.
c. Imprinted with fiber count, fiber type, and aggregate length at regular intervals not to exceed 40 inches.

10. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444, UL 1651, and NFPA 70 for the following types:

a. Plenum Rated, Conductive: Type OFCP, Type OFNP, Type OFCR, or Type OFNR in metallic conduit installed per NFPA 70, Article 300.22, "Wiring in Ducts, Plenums, and Other Air-Handling Spaces."

6.01 CONNECTORS

A. BALANCED TWISTED PAIR CABLE HARDWARE

1. Description: Hardware designed to connect, splice, and terminate twisted pair copper communications cable.
2. Approved Manufacturers:

a. Belden
b. Commscope
c. Hubbell Premise
d. Panduit

3. General Requirements for Twisted Pair Cable Hardware:

a. Comply with the performance requirements of Category 6 and Category 6a.
b. Comply with TIA-568-C.2, IDC type, with modules designed for punch-down caps or tools.
c. Cables shall be terminated with connecting hardware of same category or higher.

4. Jacks and Jack Assemblies:

a. Female; eight position; modular; fixed telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
b. Designed to snap-in to a patch panel or faceplate.
c. Standard: Comply with TIA-568-C.2.
d. Marked to indicate transmission performance.

5. Plugs and Plug Assemblies:

a. Male; eight position; color-coded modular telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
b. Standard: Comply with TIA-568-C.2.
c. Marked to indicate transmission performance.

6. Color:

a. For modular jacks, color code connectors on both ends of the cable to match the cable color. Refer to horizontal cable products above.

7.01 COPPER BACKBONE CONNECTING HARDWARE

A. Plugs and Plug Assemblies:

1. Male; eight position; color-coded modular telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
2. Standard: Comply with TIA-568-C.2.
3. Marked to indicate transmission performance.

B. Color:

1. Modular Jacks: Black

8.01 FIBER BACKBONE CONNECTING HARDWARE

A. OPTICAL FIBER CABLE HARDWARE

1. Approved Manufacturers:

   a. Commscope
   b. Corning
   c. Hubbell Premise
   d. Panduit

2. Standards:

   a. Comply with Fiber Optic Connector Intermateability Standard (FOCIS) specifications of the TIA-604 series.
   b. Comply with TIA-568-C.3.

3. Connector Type: Type LC complying with TIA-604-10-B, Fusion or Mechanical connectors.
4. Plugs and Plug Assemblies:

   a. Male; color-coded modular telecommunications connector designed for termination of a single optical fiber cable.
   b. Insertion loss not more than 0.75 dB.
   c. Marked to indicate transmission performance.

5. Jacks and Jack Assemblies:

   a. Female; quick-connect, duplex; fixed telecommunications connector designed for termination of a single optical fiber cable.
   b. Insertion loss not more than 0.75 dB.
   c. Marked to indicate transmission performance.
   d. Designed to snap-in to a patch panel or faceplate.

9.01 PATCHING AND CROSS CONNECTIONS

A. COPPER

1. Patch Cords: Factory-made, four-pair cables in 3-feet, 5-feet, 7-feet, and 10-feet lengths; terminated with an eight-position modular plug at each end.
2. Patch cords shall match the category of the connection it will be made to.
3. Patch cords shall have latch guards to protect against snagging.
4. Patch cords shall have color-coded boots for circuit identification.

   a. Colors:

      1) Patch cords shall match the color of the connection it will be made to.

B. FIBER

1. Patch Cords: Factory-made, dual-fiber cables in **36-inch** lengths.
2. Patch cord shall match the class of cable it is intended to be connected to.

10.01 PATCH PANELS AND CONNECTING BLOCKS

A. COPPER

1. Patch Panel: Modular panels housing numbered jack units with IDC-type connectors at each jack location for permanent termination of pair groups of installed cables.
    a. Features:
        1) Universal T568A and T568B wiring labels.
        2) Labeling areas adjacent to conductors.
        3) Replaceable connectors.
        4) 24 or 48 ports.
    b. Construction: 16-gauge steel and mountable on 19-inch (483 mm) equipment racks.
    c. Number of Jacks per Field: One for each four-pair conductor group of indicated cables, plus spares and blank positions adequate to suit specified expansion criteria.

B. FIBER

1. Cross-Connects and Patch Panels: Modular panels housing multiple-numbered, duplex cable connectors.
    a. Number of Connectors per Field: One for each fiber of cable or cables assigned to field, plus spares and blank positions adequate to suit specified expansion criteria.

11.01 WORKSTATIONS

A. Faceplate:

1. Four port, vertical single gang faceplates designed to mount to double gang wall boxes with single gang mud-ring.
2. Plastic Faceplate: High-impact plastic. Coordinate color with Section 262726 "Wiring Devices."
3. For use with snap-in jacks accommodating any combination of twisted pair, optical fiber, and coaxial work area cords.

PART 3 - EXECUTION

1.01 WIRING METHODS

A. Wiring Method: Install cables in raceways and cable trays, except within consoles, cabinets, desks, and counters and except in accessible ceiling spaces, and gypsum board partitions where unenclosed wiring method may be used. Conceal raceway and cables, except in unfinished spaces.

1. Install plenum cable in environmental air spaces, including plenum ceilings.
2. Comply with requirements for raceways and boxes specified in Section 270536 "Pathways for Communications Systems."

B. Wiring Method: Conceal conductors and cables in accessible ceilings, walls, and floors where possible.

C. Wiring within Enclosures: Bundle, lace, and train cables within enclosures. Connect to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools. Install conductors parallel with or at right angles to sides and back of enclosure.

2.01 INSTALLATION OF TWISTED-PAIR HORIZONTAL CABLES

A. Comply with NECA 1 and NECA/BICSI 568.

B. General Requirements for Cabling:

1. Comply with TIA-568-C.0, TIA-568-C.1, and TIA-568-C.2.
2. Comply with BICSI's "Information Transport Systems Installation Methods Manual (ITSIMM), Ch. 5, "Copper Structured Cabling Systems," "Cable Termination Practices" Section.

3. Install 110-style IDC termination hardware unless otherwise indicated.
4. Do not untwist twisted pair cables more than 1/2 inch (12 mm) from the point of termination to maintain cable geometry.
5. Terminate all conductors; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, cross-connects, and patch panels.
6. MUTOA shall not be used as a cross-connect point.
7. Consolidation points may be used only for making a direct connection to equipment outlets:
    a. Do not use consolidation point as a cross-connect point, as a patch connection, or for direct connection to workstation equipment.
    b. Locate consolidation points for twisted-pair cables at least 49 feet (15 m) from communications equipment room.
8. Cables may not be spliced. Secure and support cables not more than 6 inches (150 mm) from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
9. Install lacing bars to restrain cables, prevent straining connections, and prevent bending cables to smaller radii than minimums recommended by manufacturer.
10. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI Information Transport Systems Installation Methods Manual , Ch. 5, "Copper Structured Cabling Systems," "Cable Termination Practices" Section. Use lacing bars and distribution spools.
11. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation, and replace it with new cable.
12. Cold-Weather Installation: Bring cable to room temperature before de-reeling. Heat lamps shall not be used for heating.
13. In the communications equipment room, install a 10-foot- (3-m-) long service loop in “figure-8” fashion using Velcro, and secure above racks and ladder tray without obstructing other mechanical, electrical, or plumbing fixtures.
14. At the workstation, install the following service loop lengths above ceiling using Velcro, unless prior approval is given or the cable length does not allow. Do not pass the cable through its own loop when entering conduit.
    a. Wall data drops: 15-foot
    b. Ceiling data drops: 25-foot
    c. Wireless access: 25-foot
    d. Camera: 25-foot
15. Pulling Cable: Comply with BICSI Information Transport Systems Installation Methods Manual, Ch. 5, "Copper Structured Cabling Systems," "Pulling and Installing Cable" Section. Monitor cable pull tensions.
16. Refer to contract drawings for cable quantities.

C. Open-Cable Installation:
    1. Install cabling with horizontal and vertical cable guides in telecommunications spaces with terminating hardware and interconnection equipment.
    2. Suspend twisted pair cabling, not in a wireway or pathway, a minimum of 8 inches (200 mm) above ceilings by cable supports not more than 60 inches (1524 mm) apart.
    3. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items.

D. Group connecting hardware for cables into separate logical fields.

E. Separation from EMI Sources:
    1. Comply with recommendations from BICSI's "Telecommunications Distribution Methods Manual" and TIA-569-D for separating unshielded copper communication cable from potential EMI sources, including electrical power lines and equipment.

2. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:
    a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches (127 mm).
    b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches (300 mm).
    c. Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches (600 mm).
3. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:
    a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches (64 mm).
    b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches (150 mm).
    c. Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches (300 mm).
4. Separation between communications cables in grounded metallic raceways, power lines, and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:
    a. Electrical Equipment Rating Less Than 2 kVA: No requirement.
    b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches (76 mm).
    c. Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches (150 mm).
5. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches (1200 mm).
6. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches (127 mm).

3.01 INSTALLATION OF OPTICAL FIBER BACKBONE CABLES

A. Comply with NECA 1, NECA 301, and NECA/BICSI 568.
B. General Requirements for Optical Fiber Cabling Installation:
    1. Comply with TIA-568-C.1 and TIA-568-C.3.
    2. Comply with BICSI ITSIMM, Ch. 6, "Cable Termination Practices."
    3. Terminate all cables; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, cross-connects, and patch panels.
    4. Cables may not be spliced. Secure and support cables not more than 6 inches from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
    5. Install lacing bars to restrain cables, to prevent straining connections, and to prevent bending cables to smaller radii than minimums recommended by manufacturer.
    6. Bundle, lace, and train cable to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI ITSIMM, "Cabling Termination Practices" Chapter. Use lacing bars and distribution spools.
    7. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
    8. Cold-Weather Installation: Bring cable to room temperature before de-reeling. Heat lamps shall not be used for heating.
    9. In the communications equipment room, provide a 50-foot-long service loop on each end of cable.
    10. Pulling Cable: Comply with BICSI ITSIMM, Ch. 4, "Pulling Cable." Monitor cable pull tensions.
    11. Cable may be terminated on connecting hardware that is rack or cabinet mounted.
    12. Refer to contract drawings for cable quantities.
C. Open-Cable Installation:

1. Install cabling with horizontal and vertical cable guides in telecommunications spaces with terminating hardware and interconnection equipment.
2. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items.

D. Group connecting hardware for cables into separate logical fields.

4.01 CABLE INSTALLATION IN TRAY

A. Install cables only when each cable tray run has been completed and inspected.
B. Fasten cables on horizontal runs with cable clamps or cable ties according to NEMA VE 2. Tighten clamps only enough to secure the cable, without indenting the cable jacket. Install cable ties with a tool that includes an automatic pressure-limiting device.
C. Fasten cables on vertical runs to cable trays every 18 inches.
D. Fasten and support cables that pass from one cable tray to another or drop from cable trays to equipment enclosures. Fasten cables to the cable tray at the point of exit and support cables independent of the enclosure. The cable length between cable trays or between cable tray and enclosure shall be no more than 72 inches.
E. Tie MI cables down every 36 inches where required to provide a 2-hour fire rating and every 72 inches elsewhere.
F. In existing construction, remove inactive or dead cables from cable trays.
G. Protect installed cable trays and cables.

1. Install temporary protection for cables in open trays to safeguard exposed cables against falling objects or debris during construction. Temporary protection for cables and cable tray can be constructed of wood or metal materials and shall remain in place until the risk of damage is over.

5.01 FIELD QUALITY CONTROL AND TESTING

A. COPPER

1. Perform tests and inspections.
2. Tests and Inspections:

a. Visually inspect jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA-568-C.1.
b. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.
c. Test twisted pair cabling for DC loop resistance, shorts, opens, intermittent faults, and polarity between conductors. Test operation of shorting bars in connection blocks. Test cables after termination but not cross-connection.

1) Test instruments shall meet or exceed applicable requirements in TIA-568-C.2. Perform tests with a tester that complies with performance requirements in "Test Instruments (Normative)" Annex, complying with measurement accuracy specified in "Measurement Accuracy (Informative)" Annex. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.

3. Data for each measurement shall be documented. Data for submittals shall be printed in a summary report that is formatted similarly to Table 10.1 in BICSI's "Telecommunications Distribution Methods Manual," or shall be transferred from the instrument to the computer, saved as text files, printed, and submitted.
4. Remove and replace cabling where test results indicate that they do not comply with specified requirements.
5. End-to-end cabling will be considered defective if it does not pass tests and inspections.
6. Prepare test and inspection reports.

B. FIBER

1. Testing Agency: Installation contractor to perform testing or hire qualified testing agency to evaluate cables.
2. Factory test multimode optical fiber cables according to TIA-526-14-B and TIA-568-C.3.
3. Cable will be considered defective if it does not pass tests and inspections.
4. Prepare test and inspection reports.
5. Tests and Inspections:
    a. Visually inspect optical fiber jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments and inspect cabling connections for compliance with TIA-568-C.1.
    b. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.
    c. Optical Fiber Cable Tests:
        1) Test instruments shall meet or exceed applicable requirements in TIA-568-C.1. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.
        2) Link End-to-End Attenuation Tests:
            a) Horizontal and multimode backbone link measurements: Test at 850 or 1300 nm in one direction according to TIA-526-14-B, Method B, One Reference Jumper.
            b) Attenuation test results for backbone links shall be less than 2.0 dB. Attenuation test results shall be less than those calculated according to equation in TIA-568-C.1.
6. Data for each measurement shall be documented. Data for submittals shall be printed in a summary report that is formatted similar to Table 10.1 in BICSI TDMM, or transferred from the instrument to the computer, saved as text files, and printed and submitted.
7. Remove and replace cabling where test results indicate that it does not comply with specified requirements.
8. End-to-end cabling will be considered defective if it does not pass tests and inspections.
9. Prepare test and inspection reports.

END OF SECTION

SECTION 27 5313
CLASSROOM VOICE LIFT SYSTEM

PART 1 - GENERAL

1.01 SUMMARY

A. The intent of this Section is to provide a complete and operating integrated system suitable to the needs of the District and building Staff.

B. Section Includes:

1. Amplifier(s)
2. Receiver(s)
3. Speakers
4. Infrared Microphone(s)
5. Infrared Sensors
6. Plenum Rated Cabling
7. Battery Chargers and Charging Cables
8. Collars
9. All Miscellaneous Cables and Materials

C. The classroom voice lift system shall include but not limited to the following components and functions:

1. Any required power supply.
2. One (1) Microphone/transmitter with rechargeable sensing battery (RMT)
3. Speaker coverage for entire room with mounting hardware and plenum-rated wire (see specifications)
4. Five (5) year warranty.
5. Emergency page priority.

D. Each classroom voice lift system shall be interfaced with the school intercom to allow incoming pages to override the classroom voice lift system program. Where a video projector or flat panel display is mounted in room provide audio cable connection from projector or display audio output to voice lift amplifier.

E. Each classroom voice lift system shall be interfaced with the classroom video system to allow the voice lift system speakers to be used for display content audio, and for volume control.

1.02 SUBMITTALS

A. Shop Drawings and Product Data, Reference Section 270500 “Common Work Results”.

B. Submit equipment prints product data sheets, specification sheets for each item specified herein.

C. Submit wiring diagrams showing typical connections for all equipment.

D. Submit a certificate of completion of installation and proper system operation.

E. Contract Closeout Submittals, Reference Section 270500 “Common Work Results”. Provide operation instructions, maintenance recommendations and parts lists for the system as indicated. Include detailed wiring and connection diagrams modified to reflect as-built conditions.

1.03 QUALITY ASSURANCE

A. All items of equipment including speakers, sensors, microphones, amplifier, receiver, wire and cable shall be designed by the manufacturer to function as a complete system and shall be accompanied by the manufacturer's complete service notes and Drawings detailing all interconnections.

B. Manufacturer Qualification and Testing

C. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction, approving acceptable installer and approving application method.

D. Manufacturer Testing: Manufacturer to provide quality assurance certification for each system and all components. A report for each system will be available upon request. Report will include serial numbers and pertinent testing data for all system functions.
E. Maintenance: On-the-premise maintenance shall be provided at no cost to the Owner for a period of two (2) years from date of installation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Atlas (Learn 2 Magpie System)

2.02 CLASSROOM SOUND REINFORCEMENT SYSTEM

A. General: Provide a complete and satisfactory sound system for the pickup, amplification, distribution, and reproduction of voice and/or other audio program material. The system shall be completely solid state. All equipment and installation material required to fulfill the above shall be furnished whether or not specified herein or on the Drawings.
B. The classroom sound reinforcement system shall interface with school intercom system and fire alarm system for paging override.
C. The classroom sound reinforcement system shall interface with the classroom video display system.
D. Speaker shall be flush mounted ceiling type.

2.03 EQUIPMENT

A. Speakers:

1. Basis of Design: JBL #Control 26CT
2. Quantity as required to cover room +/- 5dB

B. Speakers Music Room Only:

1. Basis of Design: JBL #Control 25AV
2. Provide U-Bracket as required for wall mount option
3. Quantity as required to cover room +/- 5dB

C. Microphones:

1. Basis of Design: Atlas #AL-MAGPIE
2. Provide two wireless pendant microphones per classroom.

D. Charging Station

1. Basis of Design: Atlas #AS-MAGPIE-NEST
2. Size based on system requirements and manufacturer recommendations.

E. Amplifier / Receiver

1. Basis of Design: Atlas #AL2450

F. Amplifier – Music Room Only

1. Basis of Design: Extron #XPA 2001-70V
2. Mount within 2’ double door cabinet in room.

G. Volume Control – Music Room Only

1. Basis of Design: Extron #VCM 200D

H. Cabling

1. Plenum rated.
2. AWG size based on manufacturer recommendations.

I. Bluetooth Transmitter

1. Basis of Design: RDL #D-BT1A

J. IR Sensors

1. Basis of Design: Atlas #AL-IRDS
2. Ceiling mounted.

K. Equipment enclosures:

1. Mount within 2’ double door cabinet in room.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine conditions, for compliance with requirements and other conditions affecting the performance of the system.
B. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. General: Install system in accordance with all applicable codes. Install equipment in accordance with manufacturer's written instructions. Receiver shall be installed inside casework. Provide additional external sensors as necessary for complete coverage of room.
B. Wiring Methods: Plenum rated cable above accessible ceiling. Install wiring in raceway where installed in inaccessible locations. Support loose cabling from structure, do not allow cable to lay on ceiling.

3.03 QUALITY FIELD TESTING

A. Testing performed by Contractor.
B. Confirm operation of system meets or exceeds all requirements set by these specifications, the manufacturer, and required codes. Confirm system functions including but not limited to:

1. Voice lift functions.
2. Public address system paging, codes, and bells.
3. Classroom AV sound output and volume control.

END OF SECTION

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**09R-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**08/29/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Drawings:

Item ASI09R-E1
Sheet E102 – MAIN LEVEL POWER PLAN – AREA 102
1. Added power at AV Rack in Room C122A.
2. Added receptacle in front of Stage C102.

Item ASI09R-E2
Sheet E103 – MAIN LEVEL POWER PLAN – AREA 103
1. Added power at AV Rack in Room B110.

Item ASI09R-E3
Sheet E703 – ELECTRICAL SCHEDULES
1. Updated Schedules

Item ASI09R-E4
Sheet E704 – ELECTRICAL SCHEDULES
1. Updated Schedules

Item ASI09R-T1
Sheet T001 – TECHNOLOGY LEGENDS AND NOTES
1. Added symbol and description for Television Audio.
2. Removed symbol and description for Bluetooth receiver.
3. Revised descriptions for floor boxes and AV wall boxes.

Item ASI09R-T2
Sheet T101 – MAIN LEVEL TECHNOLOGY PLAN – AREA 101
1. Added Voice Lift locations in classrooms.
2. Added Television Audio locations in classrooms.
3. Removed Voice Lift system from Severe Special Needs D112.
4. Added rough-in for future data to Severe Special Needs D112.

5. Added Data outlet to plan south wall in Sensory room D111.

Item ASI09R-T3
Sheet T102 – MAIN LEVEL TECHNOLOGY PLAN – AREA 102
1. Revised Keynote #4 legend description.

Item ASI09R-T4
Sheet T103 – MAIN LEVEL TECHNOLOGY PLAN – AREA 103
1. Added additional detail for Gym Storage AV Rack.
2. Revised floorplan rooms Med Prep A146 and I.T. A150.
3. Revised Keynote #6 to add further detail on AV equipment racks.

Item ASI09R-T5
Sheet T111 – UPPER LEVEL 1 TECHNOLOGY PLAN- AREA 111
1. Added Television Audio locations in classrooms.
2. Relocated data in Science D218.
3. Added Data to plan south wall of Maker D217.
4. Added Data to plan south wall of Teacher Collab D226

Item ASI09R-T6
Sheet T121 – UPPER LEVEL 2 TECHNOLOGY PLAN – AREA 121
1. Added Television Audio locations in classrooms.
2. Added Data to plan north wall of Teacher Collab D316.

Item ASI09R-T7
Sheet T122 – UPPER LEVEL 2 TECHNOLOGY PLAN – AREA 122
1. Added Television Audio locations in classrooms.
2. Added Data to plan north wall of Teacher Collab C310.
3. Revised Data location in Classroom C322.
4. Added Voice Lift height annotation to Science C316.

Item ASI09R-T8
Sheet T301 – TECHNOLOGY BACKBONE
1. Revised Med area I.T. closet location to A150 to reflect changes to the building floor plan and revised backbone pathway accordingly.
2. Revised Keynote #1 to reflect the new I.T. closet room number.

Item ASI09R-T9
Sheet T402 – TECHNOLOGY ENLARGED PLANS
1. Removed enlarged plan and elevations for room A146.
2. Added enlarged plan and elevations for I.T. A150.

Item ASI09R-T10
Sheet T501 – TECHNOLOGY DETAILS
1. Revised detail #11 for Backbone Cable Block Diagram to reflect new location for Med area I.T. closet in A150.

Item ASI09R-T11
Sheet T503 – SIGNAL FLOW DIAGRAMS
1. Revised signal flows to reflect Voice Lift system changes and provide further detail.
2. Added Keynote #1 to diagrams and legend to help clarify priority paging requirements.

Item ASI09-T12
Specification Section – 275113 CLASSROOM SOUND REINFORCEMENT SYSTEM
1. Replace this section in its entirety.

Item ASI09-T13
Specification Section – 274100 AudioVisual Systems
1. Replace this section in its entirety.

SECTION 27 4100
AUDIOVISUAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes the minimum requirements for equipment located in classrooms and general assembly areas. All equipment and layout must be verified by IT Department and/or Consultant before purchase and installation.
B. In classrooms with voice lift, the audiovisual system shall interface with the voice lift system to allow for the voice lift system speakers to be used for display content audio.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
B. Shop Drawings: Power, signal, and control wiring.

1. Include plans, elevations, sections, and attachment details.
2. Include details of equipment assemblies. Indicate dimensions, weights, required clearances, method of field assembly, components, and location and size of each field connection.
3. Console layouts.
4. Control panels.
5. Rack arrangements.
6. Calculations: For sizing backup battery.
7. Wiring Diagrams: For power, signal, and control wiring.

    a. Identify terminals to facilitate installation, operation, and maintenance.
    b. Single-line diagram showing interconnection of components.
    c. Cabling diagram showing cable routing.

1.4 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings are shown and coordinated with each other, using input from installers of the items involved.

1.5 FUNCTIONAL DESCRIPTION OF SYSTEM

A. All audio systems shall allow for priority override for emergency notifications and codes.
B. Digital Signage Functions:

1. Flat panel display with Owner-supplied video source.
2. Connected to network for control.

C. Typical Classroom System Functions:

1. Connection of single HDMI input via wall plate to display, which will power on when an input is sensed.
2. Control by included IR remote control.
3. Provide all backboxes and connectivity required for a fully functional system.
4. Audio provided by display or by the voice lift system when present.
5. Refer to Section 275113 “Classroom Voice Lift System”.

D. Commons Area System Functions:

1. Connection of single HDMI input via wall plate to projector.
2. Connection of two unbalanced stereo inputs via wall plate.

3. Control by wall mount control panel.
4. Screen up/down, and Projector on/off control from wall mount control panel noted above.
5. One wireless bodypack with lavalier and one handheld microphone with transmitters.
6. Multiple audio input options via direct connection to rack mounted equipment. Refer to manufacturer cutsheet and signal flow diagram for a complete list of available input and output connections.
7. Audio provided by two wall-mount speakers on left and right side of proscenium opening and distributed 70-volt ceiling speakers.

E. Music Classroom System Functions:

1. Connection of single HDMI input via wall plate to display, which will power on when an input is sensed.
2. Control by included IR remote control.
3. Provide all backboxes and connectivity required for a fully functional system.
4. Audio provided by display.

F. Gymnasium:

1. A portable projector will be directly fed from an AV source. Projector or source will have an audio out.
2. Convert to balanced mono from projector/source audio output.
3. Connection of line level audio via wall plate to the left of the proscenium on the gym floor level.
4. Control by wall mount control panel.
5. Screen up/down control from wall mount control panel noted above.
6. One wireless bodypack with lavalier and one handheld microphone with transmitters.
7. Multiple audio input options via direct connection to rack mounted equipment in Gym Storage room. Refer to manufacturer cutsheet for a complete list of available input and output connections.
8. Audio provided by two wall-mount speakers on left and right side of proscenium opening and distributed 70-volt ceiling speakers.

G. Conference Room

1. Connection of single HDMI input at conference tabletop to display.
2. Control by included IR remote control.
3. Audio provided by display.

PART 2 - PRODUCTS

2.1 Following products are Basis of Design. Approved alternates will be accepted with backup information on compatibility. Refer to Signal Flow Diagrams for BOD manufacturer make and model numbers.

2.2 Digital Signage System

A. Display:

1. Basis of Design: NEC Commercial Series

a. LED backlighting.
b. Full HD resolution.
c. Built-in, low-profile speakers.
d. Rated for 24/7 operation.
e. Integrated multi-media USB player.

2. For display sizes and exact mounting locations, refer to architectural elevations and coordinate with owner.

2.3 Conference Room System

A. Display:

1. Basis of Design: NEC Commercial Series

a. LED backlighting.
b. Full HD resolution.
c. Video signal wake-up function to allow for plug and play functionality.
d. Built-in, low-profile speakers.
e. Integrated multi-media USB player.

2. For display sizes and exact mounting locations, refer to architectural elevations and coordinate with owner.

B. HDMI Input: Pass-through

2.4 Typical Classroom System

A. Display:

1. Basis of Design: NEC Commercial Series

a. LED backlighting.
b. Full HD resolution.
c. Video signal wake-up function to allow for plug and play functionality.
d. Built-in, low-profile speakers.
e. 24-hour on/off timer.
f. Integrated multi-media USB player.

2. For display sizes and exact mounting locations, refer to architectural elevations and coordinate with owner.
3. Provide audio output from display to classroom voice lift system. Refer to signal flow diagrams for exact configuration.

B. HDMI Input: Pass-through

2.5 Commons System

A. Projector:

1. Basis of Design: Owner Furnished

a. Lumens: 10,000
b. Resolution: WXGA wide-screen
c. Ceiling mounted, fixed.
d. Interfaces:

1) HDMI
2) Wired network (RJ-45)
3) RS-232
4) HDBaseT

e. Remote control and management.

1) RS-232
2) Ethernet

f. Mount projector per manufacturer’s recommendations and coordinate exact mounting location with owner.

B. Screen:

1. Basis of Design: Da-Lite Tensioned Advantage Electrol

a. Electric up/down by low voltage control.
b. Seamless surface.
c. Black backing.
d. Tensioned cable system.
e. Ceiling mounted, recessed with cover.

2. Size black-drop for intended application.
3. For screen size, surface, and exact mounting location, refer to architectural elevations and coordinate with owner.

C. Twisted Pair Audiovisual Interface Plate

1. Two input interface plate.
2. Video resolution up to 4K.
3. HDMI and VGA with separate embedded audio.
4. Remote power capability.

D. Twisted Pair Audiovisual Receiver

1. HDMI receiver with control.
2. Local audio out for connection to external DSP or amplifier.
3. Provide rack mounting hardware.

E. Wireless Microphones

1. A digital wireless microphone system is required.
2. Provide antenna combiners as required.
3. Provide separate handheld and lavalier receivers as shown on signal flow diagrams.
4. Provide rack mounting hardware for wireless receivers.

F. Digital Signal Processor

1. Fixed I/O architecture.
2. Coordinate programming with Owner prior to installation.
3. Provide rack mounting hardware.
4. Shared with Gymnasium System.

G. Audio Amplifier

1. 4-Channel
2. Selectable with 4 Ohm, 8Ohm, 70 V, and 100 V per channel.
3. Provide rack mounting hardware.

H. Loudspeakers

1. Surface mount.
2. Selectable with 4 Ohm, 8Ohm, 70 V, and 100 V per channel.
3. Provide yoke mounting option to support from open ceiling structure along with a 5:1 working load ratio aircraft wire for mounting hardware failure.

I. Wall Mounted Control Panel

1. LCD capacitive touch
2. Minimum of 1280 x 720 resolution.
3. PoE.
4. Provide in-wall mount bracket for a flush installation.
5. Coordinate programming and GUI layout with Owner prior to installation.

J. Equipment Rack

1. Middle Atlantic DWR series
2. Provide all blank panels as required.
3. Provide all lacing bars as required for cabling management.
4. Provide power conditioners with optional maintenance light as required.
5. Provide fan top option for heat extraction.

2.6 Music Room System

A. Display:

1. Basis of Design: NEC Commercial Series

a. LED backlighting.
b. Full HD resolution.

c. Video signal wake-up function to allow for plug and play functionality.
d. Built-in, low-profile speakers.
e. 24-hour on/off timer.
f. Integrated multi-media USB player.

2. For display sizes and exact mounting locations, refer to architectural elevations and coordinate with owner.
3. Provide audio output from display to classroom voice lift system. Refer to signal flow diagrams for exact configuration.

B. HDMI Input: Pass-through

2.7 Gymnasium System:

A. Wireless Microphones

1. A digital wireless microphone system is required.
2. Provide antenna combiners as required.
3. Provide separate handheld and lavalier receivers as shown on signal flow diagrams.
4. Provide rack mounting hardware for wireless receivers.

B. Digital Signal Processor

1. Fixed I/O architecture.
2. Coordinate programming with Owner prior to installation.
3. Provide rack mounting hardware.
4. Shared with Gymnasium System.

C. Audio Amplifier

1. 4-Channel
2. Selectable with 4 Ohm, 8Ohm, 70 V, and 100 V per channel.
3. Provide rack mounting hardware.

D. Loudspeakers

1. Surface mount.
2. Selectable with 4 Ohm, 8Ohm, 70 V, and 100 V per channel.
3. Provide yoke mounting option to support from open ceiling structure along with a 5:1 working load ratio aircraft wire for mounting hardware failure.

E. Wall Mounted Control Panel

1. LCD capacitive touch
2. Minimum of 1280 x 720 resolution.
3. PoE.
4. Provide in-wall mount bracket for a flush installation.
5. Coordinate programming and GUI layout with Owner prior to installation.

F. Equipment Rack

1. Middle Atlantic DWR series
2. Provide all blank panels as required.
3. Provide all lacing bars as required for cabling management.
4. Provide power conditioners with optional maintenance light as required.
5. Provide fan top option for heat extraction.

2.8 Pathways

A. Conduit and Boxes: Comply with Section 270536 "Pathways for Communications Systems."

1. Outlet boxes shall be not less than 2 inches wide, 3 inches high, and 2-1/2 inches deep.

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**010R-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**09/27/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Provide Porter 91105100-Stationary "Mini" Mat Mover in Gymnasium B100 as shown on the attached revised Sheet A103.

Provide structural support as indicated on the attached revised Sheets S133 and S201. Provide an insulated roof curb to encase the roof support steel with R30 insulation.

Provide electrical service per E103 and E703.

Attachments: A103, S133, S20, E103, E703

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**11-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**07/9/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Item
Sheet E100 and E701. See changes to exterior lighting

Attachments:
Drawings: E100, E701

Rick Taves
7/9/2019

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**12-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**07/9/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Item
Specifications for cubical track

Attachments:
Drawings:

Rick Taves
7/9/2019

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**13-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**07/9/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Item
See attached sheet I001 for changes to WFT 7 and PL-4 in the finish schedule.

Attachments:
Drawings: I001

Rick Taves
7/9/2019

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**014-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE: ARCHITECT PROJECT NO.:	**07/16/2019** **18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Project Manual:

Item ASI014-PM01

1. 08 7100 – Door Hardware
    a. Updates to Door Hardware sets shown in **BOLD.**

Drawings:

ARCHITECTURAL

Item ASI014-A01

Sheet A600

1. Door schedule has been updated – items affected by changes are highlighted in yellow on A600.
    a. A "door type description" column has been added for additional clarity.
    b. Card reader locations are now indicated in the remarks column of the schedule.
    c. Door number suffixes have been updated to eliminate the numeric suffix (ex.D101-1). Only alphabetic suffixes are used on the project for door numbering now (ex.D101A). The door *number* has remained the same, only the suffix has changed.
    d. Door types, material, glazing, frame, hardware sets and detail reference have been updated as shown on A600.

2. Door types 1B, 1C, 1D, and 2D have been updated – door type 1CS has been added to indicated doors with door lite panel covers for classrooms
    a. Dimensions the bottom rail of type D1 and D2 has been updated to be 12" tall
    b. Dimension of the door lites in type 2C has been updated to be 8" wide.

Item ASI02-A02 –
Sheet A101, A102, A103, A111, A121, A122

1. Door number suffixes have been updated to eliminate the numeric suffix (ex. D101-1) only alphabetic suffixes are used on the project for door numbering now (ex. D101A).
2. Walls around D221 and C313 were adjusted to fit a sidelite

Attachments:
Project Manual: Section 08 7100
Drawings: A101, A102, A103, A111, A121, A122, A600

SUBMITTED BY:

	Christine Costa, RA
Signature	Printed Name and Title

19 South Tejon Street, Suite 300 - Colorado Springs, CO 80903 - Tel: 719-471-7566 Fax: 719-471-1174

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**15-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**07/29/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Project Manual:

Item ASI15-M1
Section 22 1116 – "Domestic Water Piping"

1. Added PEX tubing for 2-inch and smaller to the specifications as determined in the Value Engineering acceptance matrix.

Item ASI15-M2
Section 23 8316 – "Hydronic Piping"

1. Added PEX tubing for 2-inch and smaller to the specifications as determined in the Value Engineering acceptance matrix.

Drawings:

Item ASI15-M1
Sheet M102 – MAIN LEVEL HVAC PLAN – AREA 102

1. Adjust ductwork and diffusers in Room C130 to accommodate ceiling layout.

Item ASI15-M2
Sheet M103 – MAIN LEVEL HVAC PLAN – AREA 103

1. Revise Sound attenuators so split SA-5 into SA-5A and SA-5b and SA-6 into SA-6A and SA-6B to allow duct to be installed as high as possible in the Gymnasium and maintain 25-foot high clear area AFF.
2. Adjust layout of return duct to maintain 25-foot high clear area AFF.
3. Revise return duct routing in the clinic/locker area to coordinate with the ERV unit airflow requirements.

Item ASI15-M3
Sheet M501 – HYDRONIC SCHEMATIC

1. Revise connections of the each of the loop piping branches at the condenser water main lines.

2. Clarify notation at the geo-exchange loop to indicate the division between the mechanical contractor and the geothermal contractor.

Item ASI15-M4
Sheet M702 – MECHANICAL SCHEDULES
1. Update outdoor air quantities to match with heat pumps as submitted. HP-1-4-1 to 1-4-12.
2. Update sound attenuator schedule to split each of SA-5 and AS-6 into two units each; SA-5A, SA-5B, SA-6A, and SA-6B.

Item ASI15-M5
Sheet M703 – MECHANICAL SCHEDULES
1. Update ERV schedules to coordinate with ERV units as submitted.

Item ASI15-E1
Sheet E101 – Main Level Power Plan – Area 101
1. Extended 120Volt branch circuits to ERV-1 & 2 convenience receptacle and lights.

Item ASI15-E2
Sheet E102 – Main Level Power Plan – Area 102
1. Added 120V, 20A, branch circuit to MAU-1 evaporator cooler pump.

Item ASI15-E3
Sheet E160 – Overall Roof Plan
1. Extended 120Volt branch circuits to ERV-1 & 2 convenience receptacle and lights.

Item ASI15-E4
Sheet E301 – Enlarged Kitchen Power Plan
1. Provided second power connection to dishwasher per dishwasher submittal.

Item ASI15-E5
Sheet E502 – Electrical One-Line Diagram
1. Revised circuit breaker and feeder to ERV-4 per EVR-4 submittal.

Item ASI15-E6
Sheet E701 – Electrical Schedules
1. Revise Mechanical Equipment Schedule per submitted mechanical equipment. ERV-1 , 2, 3, & 4 and FC-1.

Item ASI15 – E7
Sheet E702 – Electrical Schedules
1. Revised Panel Schedules.

Item ASI15- E8
Sheet E704 – Electrical Schedules
1. Revised Panel Schedules.

Attachments:
Project Manual:
Section 22 1116 – “Domestic Water Piping”, Section 23 8316 – “Hydronic Piping”
Drawings:
Sheet M102 – MAIN LEVEL HVAC PLAN – AREA 102, Sheet M103 – MAIN LEVEL HVAC PLAN – AREA 103, Sheet M501 – HYDRONIC SCHEMATIC, Sheet M702 – MECHANICAL SCHEDULES, Sheet M703 – MECHANICAL SCHEDULES Sheet E101 - Main Level Power Plan – Area 101, Sheet E102 – Main Level Power Plan – Area 102, Sheet E160 – Overall Roof Plan, Sheet E301 – Enlarged Kitchen Power Plan, Sheet E502 – Electrical One-Line Diagram, Sheet E701 – Electrical Schedules, Sheet E702 – Electrical Schedules, Sheet E704 – Electrical Schedules.

CC:
SUBMITTED BY:

Signature

Bob Weber

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**16-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**08/6/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Provide a drain for the tilt skillet in the kitchen. This drain was requested by the owner.

Attachments: Specification section 114000 food service, **Drawings** FS-102, FS-201, FS-301, FS-601, FS-802. P120

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**17-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**08/16/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

See attached drawings for correction to sink type locations.

Attachments P102, P103, P121

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	18R CCMS
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	01/16/2020
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

See attached drawings for changes to Main street and 12 street site work. These drawings have been reviewed by the city of Canon City. These drawings are noted as RFC 119 in the drawings revision.

Attachments C002, C003, CE100, C100, C101, C102, C103, C104, C200, C300, C301. L100, L101, L400, L401, LI101

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

19 South Tejon Street, Suite 300 - Colorado Springs, CO 80903 - Tel: 719-471-7566 Fax: 719-471-1174

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**19-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**08/23/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

1) Walls in restrooms have been adjusted for required width for carriers and all show up on sheet A400
2) Elevations for the coiling overhead door have been adjusted to coordinate with shop drawings on sheet A422
3) Deleted roof hatch in room B110 per owners request on sheet A160
4) Spec section 085113 has been corrected for proper air infiltration requirements for the single hung window.

Attachments Spec section 085113, A160, A400, A422

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**20-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**09/9/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Provide one Leviton dual port bollard mount evr-green 4000 car charging station as indicated on the attached cut sheets and installation instructions

Attachments Leviton cut sheet, Installation instructions

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**21-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**09/9/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

See attached drawings for changes to the Community Health rooms.

Attachments A/400, E104, E203, E704, M103, P130.

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**22-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**09/9/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

See attached drawing for revisions to the platform area C102. These changes are required for ADA accessibility.

Attachments

CC:
SUBMITTED BY:

Signature	Rick Taves Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**23-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**01/14/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Remove 17'-5 ½" of the existing wall at the south elevation of the existing locker room full height. See attached sketch to support existing joist. New roof parapet will be framed to replace what is removed. Continue expansion joint as detailed in the attached.

Provide a submittal for roof drainage and expansion joint.

Attachments: A160, A509, Demo sketch, S132, S133

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**24-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**09/18/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Summary:

This ASI is to modify the height of the historic building in relation to project level +100'-0". All other levels remain the same in relation to +100'-0". New levels are as follows:
Lower Level (H) +95'-3" (formerly 94'-8 ½")
Upper Level 1 H) +107'-5" (formerly 106'-10")
Upper Level 2 (H) +119'-11" (formerly 119'-4 ½")

Architectural Drawings:

Item ASI24-A01
Sheet A101

1. Revised floor elevations of historic building
2. Eliminate 1 tread from stair in corridor D100.
3. Revise landing elevation to 101'-0" at doors D102B and D101B in Stairs 1 and 2. Revise exterior concrete stairs at Stair 1 D101 and Stair 2 D102
4. Revise ramp and stair in Library D121

Item ASI24-A02
Sheet A121

1. Revise ramp in corridor 303 and framed wall locations at bottom of ramp as shown on sheet A121.

Item ASI24-A03
Sheet A201, A202, A300, A302, A504, A602

1. Revised floor elevations of historic building.
2. Revise height of storefront at north elevation of library and east and west elevation of the upper level of the connector.

Item ASI24-A04
Sheet A312
1. Revised floor elevations of historic building.
2. Revised height of top of steel at storefront systems.

Item ASI24-A05
Sheet A410, A411, A413, AS502
1. Revised floor elevations of historic building.
2. Eliminate 1 tread from stair in corridor D100.
3. Revise landing elevation to 101'-0" at doors D102B and D101B in Stairs 1 and 2. Revise exterior concrete stairs at Stair 1 D101 and Stair 2 D102.
4. Revised height of half level elevator door in relation to historic building elevator levels.
5. Revise ramp and stair in Library D121
6. Revised typical handrail detail 6 on A413 to match detail 5 on A413

Item ASI24-A06
Sheet A421, A430
1. Revised interior ramp and stair in library.
2. Revised casework at library ramp.
3. Removed bookcases from east and west wall at library ramp.
4. Revised casework detail 22 on A430

Structural Drawings:

Item ASI24-S01
Sheet S101
1. Revised elevation of existing concrete slab and corresponding elevations relating to floor elevation including new structure.
2. Revised elevation of girts at north wall of Library.

Item ASI24-S02
Sheet S111
1. Revised elevation of existing floor and corresponding elevations relating to floor elevation including new structure.

Item ASI24-S03
Sheet S121
1. Revised elevation of existing floor and corresponding elevations relating to floor elevation including new structure.
2. Revised elevations and length of ramp at connector.
3. Revised dimensions of steel purlins to existing wall at grid E5 between grids ED and EC.
4. Added detail cut 1/S111 to southeast of elevator.

Item ASI24-S04
Sheet S122
1. Revised beam size to W16x26 at grid 4 between grids L & K.
2. Revised HSS 5x5 girt elevation along grid 5 between grids B and I.2.

Item ASI24-S05
Sheet S131
1. Revised top of steel beam elevations at connector to read "slopes" in lieu of an elevation.
2. Revised elevation of existing roof and corresponding elevations of supporting structure.

Item ASI24-S06
Sheet S132
1. Added column tag for PIPE 10 STD at two locations near grid 6 at J and I.2.
2. Edited tag for 6A/S202 at grid 6 near grid P.

Item ASI24-S07

Sheet S133

1. Added beam tag for W10x12 at grid K between grids 13 and 14.

Item ASI24-S08

Sheet S202

1. Detail 12/S202; Revised top of angle elevation at window sill

Item ASI24-S09

Sheet S301

1. Revised detail call-outs on elevations 7/S301 and 15/S301.

Attachments:

Drawings: AS502, A101, A121, A201, A202, A300, A302, A311, A312, A410, A411, A413, A421, A430, A504, A602
S101, S111, S121, S122, S131, S132, S133, S202, S301

CC:

SUBMITTED BY:

	Christine Costa, RA
Signature	Printed Name and Title

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**25-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**09/17/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Attached are the civil drawings to add a connection for added roof drain per RFC 089.

Attachments Building 102 Roof Drain - JVA

CC:
SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**26-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE: ARCHITECT PROJECT NO.:	**10/08/2019** **18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Drawings:

ARCHITECTURAL

Item ASI26-A101

1. Removed tv monitors from classroom walls and adjusted markerboard locations and/or sizes to fit wall
2. Revised notes for ramp handrail in C100 vestibule
3. Added wall padding to quiet room (keynote 11.08)
4. Added dimensions to library entrance casework

Item ASI26-A102

1. Removed folding panel partition from platform C102
2. Modified kitchen partial height wall
3. Added elevation 10 on A422
4. Removed tv monitor from C130
5. Adjusted dust collector system location in C130

Item ASI26-A103

1. Revised wall return at gym opening B100A

Item ASI26-A111

1. Removed tv monitors from classroom walls and adjusted markerboard locations and/or sizes to fit wall

Item ASI26-A121

1. Removed tv monitors from classroom walls and adjusted markerboard locations and/or sizes to fit wall

Item ASI26-A122

1. Removed tv monitors from classroom walls and adjusted markerboard locations and/or sizes to fit wall
2. Revised equipment and casework in C316 to fit stackable hazardous/flammable cabinets

Item ASI26-A202

1. Adjusted size of window 17 in elevation 6 to avoid conflict with ceiling.

Item ASI26-A400

1. Adjusted wall in A120, C106A, C125, D223, D319 for floor mounted toilet

Item ASI26-A401

1. Adjusted wall to cover rough brick edge at existing gym wall in enlarged plan 5
2. Adjusted position of dust collector and work tables in C130

Item ASI26-A402

1. Removed folding panel partition at platform C102
2. Adjusted stage curtains south.
3. Adjusted concrete stair detail 4 to show stage floor at top step
4. Adjusted ramp railing in section 7

Item ASI26-A410

1. Added gym floor millwork panels around elevator shaft on upper level 2
2. Adjusted handrails at exterior stair of stair 1

Item ASI26-A411

1. Added stair and ramp handrail elevations 7,8,9 and 10
2. Adjusted handrail notes and elevations at library ramp

Item ASI26-A420

1. Adjusted location of wall tile and added finish notes to interior elevations
2. Adjusted mullion layout of classroom D118 to match D117 (window I)

Item ASI26-A421

1. Adjusted workroom D121A millwork and sink location for ADA accessibility
2. Adjusted location of wall tile and added finish notes to interior elevations
3. Added information to library entrance casework

Item ASI26-A422

1. Added Elevation 10 to show area of skim coating over existing brick and block wall.
2. Adjusted location of wall tile and added finish notes to interior elevations

Item ASI26-A423

1. Adjusted paint areas in gym
2. Added tectum panels to north wall of gym
3. Adjusted wall pad dimensions
4. Added wresting mat hoist to north wall elevation

Item ASI26-A424

1. Adjusted paint areas in gym
2. Adjusted location of wall tile and added finish notes to interior elevations

Item ASI26-A425

1. Adjusted location of wall tile and added finish notes to interior elevations
2. Added pantry cabinet to break room A118
3. Added alternate for vinyl lettering on entry vestibule wall

Item ASI26-A426

1. Adjusted location of wall tile and added finish notes to interior elevations

Item ASI26-A427

1. Adjusted location of wall tile and added finish notes to interior elevations

Item ASI26-A428

1. Adjusted location of wall tile and added finish notes to interior elevations
2. Added gyp board control joints to corridor wall C302
3. Added elevation 6
4. Revised millwork in C316 to show stacked flammable/corrosive cabinets
5. Added elevations of elevator gym wood paneling.

Item ASI26-A430

1. Added detail 5 and 20 for elevator gym wood paneling.
2. Added library entrance casework detail

Item ASI26-AC101

1. Changed 2x2 ceiling tiles to 2x4 and updated the ceiling legend.

Item ASI26-AC102

1. Changed 2x2 ceiling tiles to 2x4 and updated the ceiling legend.
2. Added paint colors to ceiling elements
3. Removed wood gym floor ceiling panels from corridor C113
4. Added panel layout for gym wood panel proscenium
5. Removed folding panel partition from platform C102

Item ASI26-AC103

1. Changed 2x2 ceiling tiles to 2x4 and updated the ceiling legend.
2. Indicated colors of acoustic paneling in gym ceiling
3. Moved gym fan location north 6’
4. Added paint colors to ceiling elements.

Item ASI26-AC111

1. Changed 2x2 ceiling tiles to 2x4 and updated the ceiling legend.
2. Added paint colors to ceiling elements.

Item ASI26-AC121

1. Changed 2x2 ceiling tiles to 2x4 and updated the ceiling legend.
2. Added paint colors to ceiling elements.
3. Indicated colors of acoustic paneling in gym ceiling

Item ASI26-AC122

1. Changed 2x2 ceiling tiles to 2x4 and updated the ceiling legend.
2. Added paint colors to ceiling elements.
3. Indicated colors of acoustic paneling in gym ceiling
4. Changed small areas of the gyp board ceiling to 2x4 acoustic ceiling for heat pump accessibility in rooms C322, C319, and C318

Item ASI26-AS502

1. Added exterior stair railing elevations and detail

Item ASI26-I001

1. Updated finish material schedule to reflect approved finishes.

2. Updated wall finish types (WFT) 1, 2, 5, 6, 8, and 9
3. Updated finish details 3 and 4

Item ASI26-I101

1. Revised finishes as indicated
2. Revised keynote 9.66

Item ASI26-I102

1. Revised finishes as indicated

Item ASI26-I103

1. Revised finishes as indicated

Item ASI26-I111

1. Revised finishes as indicated
2. Revised keynote 9.66

Item ASI26-I121

1. Revised finishes as indicated
2. Revised keynote 9.66

Item ASI26-I122

1. Revised finishes as indicated
2. Revised keynote 9.69

STRUCTURAL

Item ASI26-S133/S302

1. Added fan support detail

PLUMBING

Item ASI26-P102 / P103 / P121 / P131 / P701

1. Updated plumbing drawings to show floor mounted toilets

SUBMITTED BY:

	Christine Costa, RA
Signature	Printed Name and Title

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**27-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**10/29/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings for MEP changes to service the fume hood in room C316.

Attachments: E122, E160, E701, E703, M111, M122, M160, M701, P122

SUBMITTED BY:

	Rick Taves
Signature	Construction administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**28-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**10/21/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings to adjust roof drain at grid lines C.5 and 2. Piping is designed to be cancelled in the soffit along grid line 1.8

Attachments: A160, A501, P121

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**29-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**10/21/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings to provide masonry showers per owner's request.

Provide block filler and epoxy paint on walls of the shower. Color to match adjacent wall finish.

Attachments: A401, P130, P131

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**30-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**12/09/2019**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings to provide plumbing services to the washer and dryer in laundry room D123.

Attachments: M301, P100, P101, and P102.

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**31-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**1/9/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings to provide MEP services to the owner suppled kiln. The ASI also includes changes to the light fixtures above stair #3.

Attachments: M121, M160, M501, M601, M701, AC122, E102, E121, E160, E222, E701, E704

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**33-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE: ARCHITECT PROJECT NO.:	**12/19/2019** **18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings to provide an access door to access the low roof from room C312A.

1) Door shall be:
   C312A, 3'-0" x 5'-0" Type 1A, HM, Frame F1, 4-sided HM frame, Door HDWR shall be as follows:

Hardware Group No. 64
For use on Door #(s):
C312A
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	ND80BD RHO	626	SCH
1	EA	CYLINDER	AS REQUIRED BY EXISTING KEY SYSTEM		BES
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	SET	CLOSER BRACKET(S)	AS REQUIRED TO INSTALL CLOSER		LCN
1	EA	GASKETING	429 @ HEAD & JAMBS	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER

*Door to be locked from Room C312 side of opening.

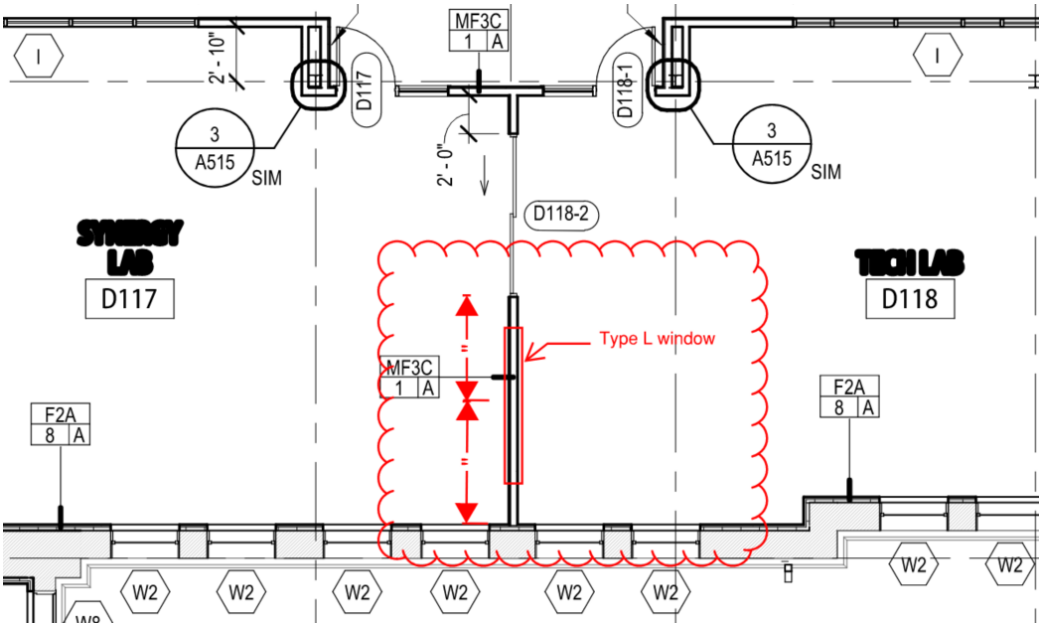
ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**34-CCMS**
OWNER:	**RLH Engineering** **c/o Chuck Jordan** **601 Gyrfalcon Court, Unit A** **Windsor, Colorado 80550**	DATE OF ISSUANCE: ARCHITECT PROJECT NO.:	**12/19/2019** **18012.01**
CONTRACTOR:	**GE Johnson** **25 North Cascade, Suite 400** **Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc.** **19 South Tejon Street, Suite 300** **Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Provide a type L window 10'-6" long in the wall between rooms D117 and D118. See the attached sketch for location.



Attachments:

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**35-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**1/03/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings for owner approved room number layout. This layout will be used for all final room numbering, including room signs, emergency exit graphics, fire panel graphics, PA system labels. Etc.

Attachments: G110, G111, G112

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**36-CCMS**
OWNER:	**RLH Engineering** **c/o Chuck Jordan** **601 Gyrfalcon Court, Unit A** **Windsor, Colorado 80550**	DATE OF ISSUANCE:	**1/10/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson** **25 North Cascade, Suite 400** **Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc.** **19 South Tejon Street, Suite 300** **Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings for clarification of electrical in the kitchen area. These corrections are to coordinate with approved kitchen equipment.

Attachments: E102, E160, E301, E703, E704

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**37-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**1/09/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached sketch for structural details for framing of the 20' door C103C

Attachments:

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**38-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**1/21/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached for changes to the commons and stage lighting plans. These plans were changed by the lighting consultant after meeting with the owner.

Attachments: E102, E121, E202, E502, E701, E704.

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**39-CCMS**
OWNER:	**RLH Engineering** **c/o Chuck Jordan** **601 Gyrfalcon Court, Unit A** **Windsor, Colorado 80550**	DATE OF ISSUANCE: ARCHITECT PROJECT NO.:	**1/22/2020** **18012.01**
CONTRACTOR:	**GE Johnson** **25 North Cascade, Suite 400** **Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc.** **19 South Tejon Street, Suite 300** **Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached bronze plaque approved by owner. Provide shop drawing for approval.

Attachments:

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**40-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**02/03/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached revisions to the CTE room electrical.

Attachments: ASI 40 – Elec.pdf

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**41-CCMS**
OWNER:	**RLH Engineering** **c/o Chuck Jordan** **601 Gyrfalcon Court, Unit A** **Windsor, Colorado 80550**	DATE OF ISSUANCE:	**1/31/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson** **25 North Cascade, Suite 400** **Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc.** **19 South Tejon Street, Suite 300** **Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached to provide an expansion joint at new masonry walls at the103 area.

Attachments: Masonry expansion joint area 103

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**42-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**02/03/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached:

1) Revise paint scheme in clinic rooms.
2) Provide raceway and boxes for low voltage services in clinic rooms.

Attachments:

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**43-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**02/13/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached:

1) See attached sketch for owner approved court lines and colors. Provide shop drawings of court line sizes, overlap, colors, etc.

Attachments: Gym floor court lines

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**44R-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**02/21/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached:

1) Elimination of the soffit at large group room C323. Extend east wall to deck.
2) Change ceiling outside room C317 and C320 from sheet rock to ACT-1
3) Change ceiling outside makers C315 from sheet rock to ACT-1
4) Provide a display case corridor C113
5) Change description of mineral wool sound barrier at details on page A501
6) Dimension are clarified for light fixtures in corridor C302. Align all lights in this corridor 5'-6" from grid line 4. And revise light fixtures at eliminated soffit.

Attachments: A102, A501, AC122, E222.

SUBMITTED BY:

Signature

Rick Taves
Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**46-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**04/03/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Item

Sheet C101

1. Revised grading behind trash enclosure area
2. Revised grate elevation and location of 12" Area Drain
3. Added note to provide drainage knockouts within trash enclosure wall

Sheet C107

1. Revised grate elevation and location of 12" Area Drain
2. Revised pipe slope leading to 12" Area Drain

Sheet C300

1. Revised surfacing of area behind trash enclosure to be light-duty concrete

Attachments:

Drawings: C101, C107, C300

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**47-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**04/24/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

Item

Sheet C103
1. Revised routing of roof drainage storm piping
2. Deleted storm piping to roof drain connection no longer applicable to project

Sheet C104
1. Deleted storm piping to roof drain connections no longer applicable to project
2. Deleted small pipe headwall and concrete pan

Sheet C106
1. Revised routing of roof drainage storm piping
2. Deleted storm piping to roof drain connections no longer applicable to project
3. Deleted small pipe headwall and concrete pan

Sheet C300
1. Deleted section of concrete pan and small pipe headwall
2. Deleted note to connection to existing inlet due to error in survey

Attachments:
Drawings: C103, C104, C106, C300

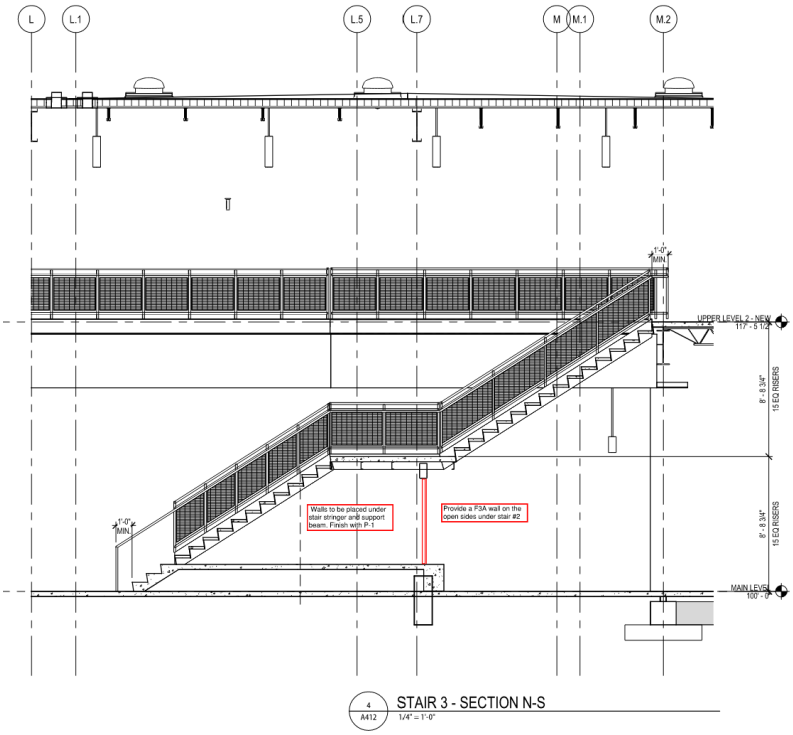
ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**50-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE: ARCHITECT PROJECT NO.:	**05/01/2020** **18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

1) See the attached sketch to provide walls under stair #2



Attachments:

Rick Taves

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**52-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/19/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings for revisions to the historical building that developed after demolition was completed.

Attachments:

Rick Taves

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**53-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**06/25/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings to provide a gate at the north side of area 102.

Attachments:

Rick Taves

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**54-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**07/01/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Description:

See attached drawings revising historic window replacement details to reflect existing conditions.

Attachments: A621

Christine Costa, RA

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**ASI 55**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**07.31.2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Drawings:

Mechanical

Item ASI55-M1
Sheet M102
1. Added transfer fan TF-2 to IDF closet C114

Item ASI55-M2
Sheet M701
1. Updated Fan Schedule – added TF-2.

Electrical

Item ASI55-E1
Sheet E102
1. Added transfer fan to IDF Closet C114.

Item ASI55-E2
Sheet E704
1. Updated Panel schedule LB1 - Added circuit to panel LB1 for transfer fan TF-2.

Attachments:
Drawings:
Sheet M102, M701, E102, E704

CC:

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**56-CCMS**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**09/04/2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Description:

Project Manual:

12 93 00 Site Furnishings

1. Remove (2) Escofet Twig benches.
2. Add (2) Anova Airi Leaf benches.

Drawings:

Item LSI00-L01

Sheet L100 Overall Site Plan

1. Remove (2) Escofet Twig benches.
2. Add (2) Anova Airi Leaf benches
3. Remove Trex boardwalk.
4. Revise planting in area of former boardwalk.
5. Revise scoring adjacent to former Trex boardwalk.
6. Revise note at brick pavers to say, "Alternate – Saw cut 8" band and stain between joints, base bid concrete paving, no joints."

Item LSI01-L02

Sheet L101 Overall Landscape Plan

1. Remove (2) Escofet Twig benches.
2. Add (2) Anova Airi Leaf benches
3. Remove Trex boardwalk.
4. Revise planting in area of former boardwalk.
5. Revise scoring adjacent to former Trex boardwalk.

Item LS400-L03

Sheet L400 Landscape Enlargement Plan

1. Remove Trex boardwalk.
2. Revise planting in area of former boardwalk.
3. Revise scoring adjacent to former Trex boardwalk.

Item LS401-L04
Sheet L401 Rain Garden Enlargement Plan

1. Remove (2) Escofet Twig benches.
2. Add (2) Anova Airi Leaf benches
3. Remove Trex boardwalk.
4. Revise planting in area of former boardwalk.
5. Revise scoring adjacent to former Trex boardwalk.

Item LS501-L06
Sheet L501 Site Details

1. Detail 1/L501: Remove sandblasting details on entrance walls as no longer needed.
2. Detail 2/L501: Remove sandblasting details on entrance walls as no longer needed.
3. Detail 4/L501: Remove Trex boardwalk detail as no longer needed.

Attachments:
Specifications:
Specification Section 12 93 00 Site Furnishings

Drawings:
Sheet L100 Overall Site Plan
Sheet L101 Overall Landscape Plan
Sheet L400 Landscape Enlargement Plan
Sheet L401 Rain Garden Enlargement Plan
Sheet L501 Site Details

CC:

SUBMITTED BY:

	Rick Taves
Signature	Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**ASI 58-revised**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**11.11.2020**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

Please revise or add the following additional information to the Contract Documents as described herein. This work shall not require a change in the Contract Amount. Should the Contractor determine that this directive will require an increase in the cost of the Project, he/she shall immediately notify the Architect and shall not proceed until the cost issue is resolved.

Drawings:

Sheet A201
Added section detail 6/A504 call out to elevation 2/A201.
Added section detail 7/A504 and 8/A504 to elevation 5/A201.
Added notes clarifying parge coat and break metal edge to match plan details
Added keynote 4.60 to elevations for mortar re-pointing at historic front stair

Sheet A411
Added plan detail 11/A511 call out and clarified where the plan details are taken from (parging/windows/brick)

Sheet A504
Added section detail 6,7 and 8 to show parge coat and concrete infill repair

Sheet A511
Added plan detail 11 to show parge coat extents
Corrected framing dimension at details 8 and 9 to match elevations and design intent

Specifications
Added section 07 5720 Elastomeric Deck Coating to correspond with keynote 7.52 used at plans and elevations of historic front stair.

CC:

SUBMITTED BY: _____ Rick Taves
Signature — Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**ASI 60**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**02.05.2021**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Changes:

See attached plumbing plan P101 to provide water service for future shower.

CC:

SUBMITTED BY: _____ Rick Taves

Signature — Construction Administrator

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

PROJECT:	**Canon City Middle School Renovation and Addition**	SUPPLEMENTAL INSTRUCTION NO.:	**ASI 61**
OWNER:	**RLH Engineering c/o Chuck Jordan 601 Gyrfalcon Court, Unit A Windsor, Colorado 80550**	DATE OF ISSUANCE:	**02.05.2021**
		ARCHITECT PROJECT NO.:	**18012.01**
CONTRACTOR:	**GE Johnson 25 North Cascade, Suite 400 Colorado Springs, CO 80903**	ARCHITECT:	**R.T.A., Inc. 19 South Tejon Street, Suite 300 Colorado Springs, Co 80903**

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Changes:

See the attached drawings to provide cooling in the IDF room and heating in the mechanical room.

CC:

SUBMITTED BY: _____ Rick Taves

Signature — Construction Administrator