

# Hallsville School District

## Track & Field Improvements Middle School Addition

### Progress Report #10

February 27, 2024  
BOE Meeting

#### Provided For:

Hallsville District Administrative Team  
Hallsville R-IV School District  
421 E. Hwy 124  
Hallsville, MO 65255

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**Hallsville District Administrative Team**

Attn: Superintendent - John Downs  
421 E. Hwy 124  
Hallsville, MO 65255

Mr. Downs,

Please find enclosed the monthly report for the Track & Field Improvements and the Middle School Addition projects. Included in this report, you will find an update on the construction progress for this project.

At the Track & Field project the remaining item to wrap up is the barrier fence. Barrier fence installation has been held off due to a section of sidewalk that had a deficiency report issued by the materials testing contractor. SMW Team will work to get as much fence installed prior to the start of Track & Field activities.

Over at the Middle School Addition the ironworkers have completed setting the steel on the building and finalized the detailing work. The MEP/FP trades are on site to continue overhead rough-in. Exterior vapor barrier has been applied to the CMU in preparation for the brick. Exterior framing and interior framing is ongoing. Temporary heat is being utilized to keep interior trades moving forward as we continue to see cold temperatures.

Should you have any questions or concerns regarding this report, please let me know.

Sincerely,

A handwritten signature in black ink, appearing to read "Patrick Aylesworth", is positioned below the word "Sincerely,".

Patrick Aylesworth



## **II. Design & Engineering Update:**

### **Construction Observation Reports:**

Klingner team is working on submittal reviews and RFI responses as needed for the project. Klingner will make project site visits every few weeks to aid in reviewing construction activities on site.

Terracon Observation reports are also being distributed to Mr. Downs, Klingner & Associates, Boone County Inspection, and SM Wilson.



### **III. Contracting Update:**

#### **Contract Changes:**

S. M. Wilson & Co. has submitted Change Orders #13, #14 & #15. Please review and let me know if you have any concerns.

COR #13 - ASI #02 - Electrical upgrades at Central Building

COR #14 - ASI #06 - Air Duct Transfer

COR #15 - Added diffusers and duct size



S. M. Wilson & Co.  
 2185 Hampton Ave., St. Louis, MO 63139  
 222 1st Ave., Suite A, Edwardsville, IL 62025

**CHANGE ORDER REQUEST**  
**No. 13**


<b>TO:</b> HALLSVILLE R-IV SCHOOL DISTRICT 421 E. Hwy 124 Hallsville MO 65255	<b>JOB #:</b> 0122010.00
<b>ATTN:</b> Bryan Wildenhain	<b>JOB NAME:</b> Hallsville New Middle School Addition & Track & Field Improv
<b>RE:</b> ASI#02 - Central Building Electrical	<b>DATE:</b> February 09, 2024

This change order is for the revisions to the lighting and receptacles at the Middle School. It includes changes in the area of the existing central office that is being converted to a corridor.

Description	Net Amount
ASI#02 - Central Building Electrical	
Per Meyer's Pricing on ASI #02 disconnect and remove existintg receptacles on wall to be removed, and furnish and install lighting per ASI 002 documents.	1,963.17
Owner Contingency	
Utilize owner contingency to pay for this additional electrical work.	(1,963.17)
<b>Subtotal:</b>	<b>\$0.00</b>
SDI (Subcontracts):	\$0.00
SDI (Purchase Orders):	\$0.00
Performance & Payment Bond:	\$0.00
General Liability:	\$0.00
FEE:	\$0.00
<b>Total Cost:</b>	<b>\$0.00</b>

- NOTES:
1. The approval of this Change Order Request is important to the progress of this project. Your approval is required as soon as possible. Upon execution of this Change Order Request, a Change Order will be processed and forwarded to you for signature.
  2. This work is on hold pending authorization unless previously authorized.
  3. Extension of time necessary for this change is 0 calendar days.

This form will serve as our written authorization to proceed with the above work pending an official change order to our contract showing the revised contract amount.

HALLSVILLE R-IV SCHOOL DISTRICT	KLINGNER & ASSOCIATES, P.C.	S. M. WILSON & CO.
Bryan Wildenhain	Matthew Bridges	Patrick Aylesworth
_____	_____	
<i>Authorized Signature</i>	<i>Authorized Signature</i>	<i>Authorized Signature</i>
_____	_____	<b>2/9/2024</b>
<i>Date</i>	<i>Date</i>	<i>Date</i>

**MEYER ELECTRIC INC.**

3513 North Ten Mile Drive

Jefferson City, MO 65109

Ph: (573) 893-2335

Fax: (573) 893-3686

office@meyerelectric.net

**CHANGE ORDER PROPOSAL**

4/26/2023

SM Wilson  
St. Louis, MOHallsville Middle School BP2  
Project No. - Job No: 0122010.00  
Meyer Job# 6007

Attention: John Dohle / Clayton Pezold

Meyer Reference #: 37162

ASI #2 - We propose to furnish material and labor to install electrical work per the following.

Material	Qty	Cost
A3	4.00	\$258.88
X2	1.00	\$61.33
OS	1	\$168.00
PP	1	\$42.00
demo receptacle		
blank plates	8	\$15.60
1900 box	2	\$3.40
1900 box blank	1	\$0.78
1900 box ceiling support	1.00	\$8.95
1g plaster ring	1.00	\$0.97
12/2 w/ground MC	100.00 ft	\$72.00
MC connector 2 barrel	3	\$3.15
MC connector	2	\$1.10
anti short	8	\$0.80
red wirenuts	18	\$2.52

Material Cost Subtotal	\$639.48
Markup on Material @10.00%	\$63.95
<b>Material Subtotal</b>	<b>\$703.43</b>

Labor	Quantity	Rate	Cost
Labor	12.35 Hr	\$92.73	\$1,145.22
Labor Cost Subtotal			\$1,145.22
Markup on Labor @10.00%			\$114.52
<b>Labor Subtotal</b>			<b>\$1,259.74</b>

<b>TOTAL</b>	<b>\$1,963.17</b>
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*Note: This proposal may be withdrawn by us if not accepted within 10 days.*

**Submitted By:**

Signature

*Leon J. Keller*

Name, Title

Leon J. Keller, President

Date:

**April 26, 2023**

cc: Gary Heet, Vice President / PM

**Accepted By:**

Signature

Name, Title

Date:

April 19, 2023

## SUPPLEMENTAL INSTRUCTION 2 (SI 2)

For work titled:  
 Hallsville Middle School Addition

Project Number / Client Number:

**TO GENERAL CONTRACTOR**

### GENERAL NOTES

This Supplemental Instructions is issued for the purpose of clarifying the design intent of the Construction Documents.

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time. **If there is to be a change to contract cost or time, the contractor is responsible for providing this information in writing for approval before they begin work. A break down of cost for material and labor for both the general contractor and subcontractors is required for all change order requests.**

This Supplemental Instructions consists of one (1) – 8 1/2” x 11” pages including this cover sheet and three (3) - 30” x 42” sheets.

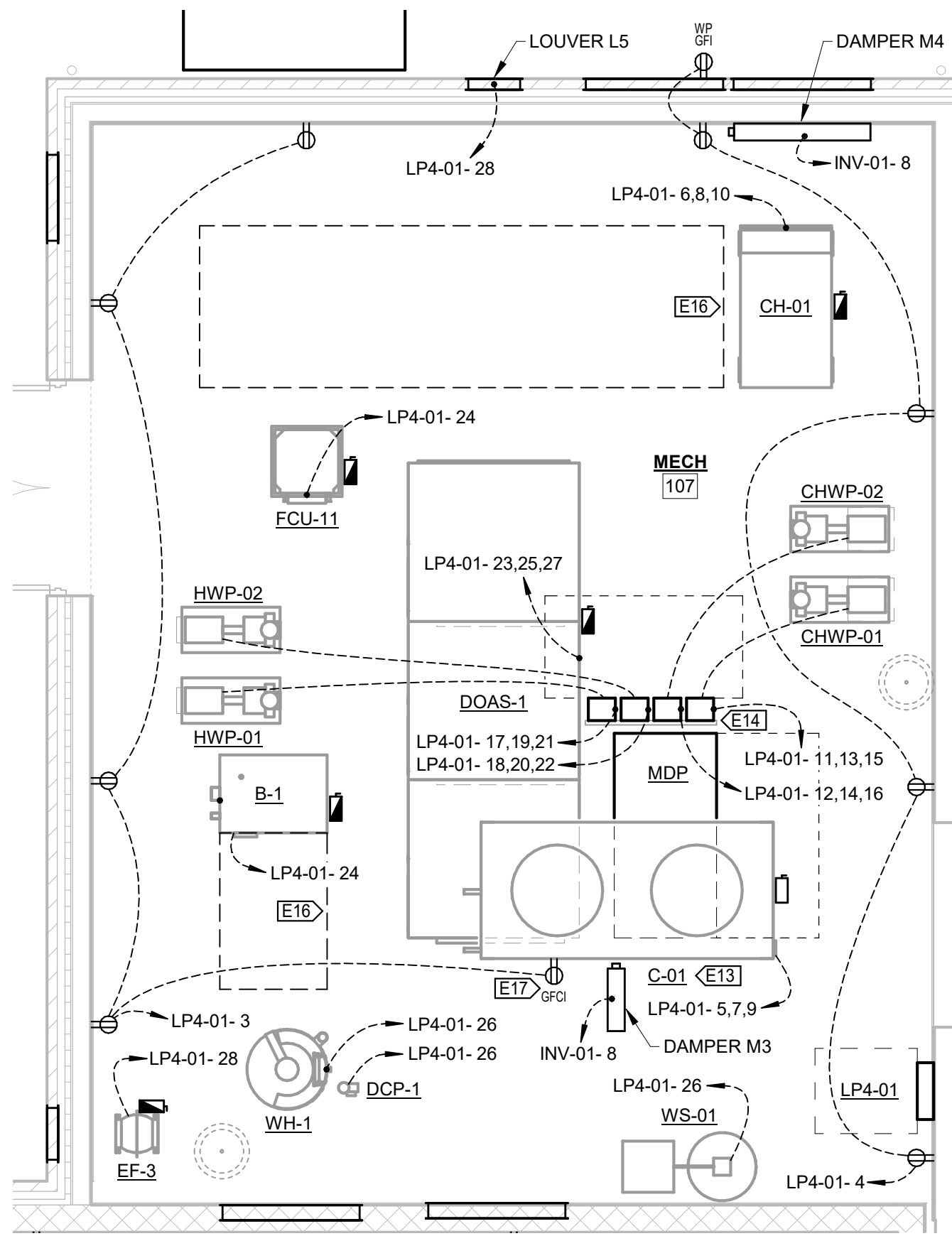
### DESCRIPTION

1	Sheet E100, E101, E601	SI-2 formalizes the lighting and receptable changes in the area of the existing central office that is being converted to a corridor that was incorporated in to the electricians bid during the bid leveling / negotiating stage of the bidding process.

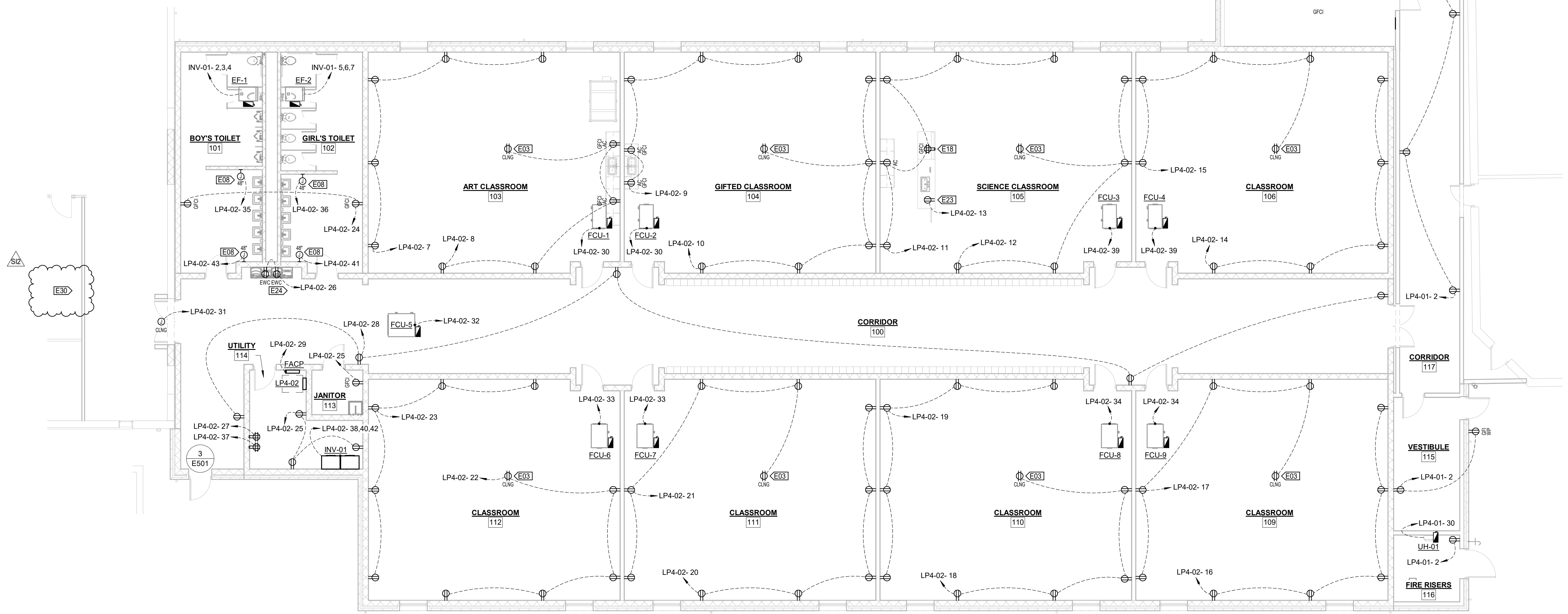
### ATTACHMENTS

Sheet E100, E101, E601

**END OF SUPPLEMENTAL INSTRUCTIONS 2**

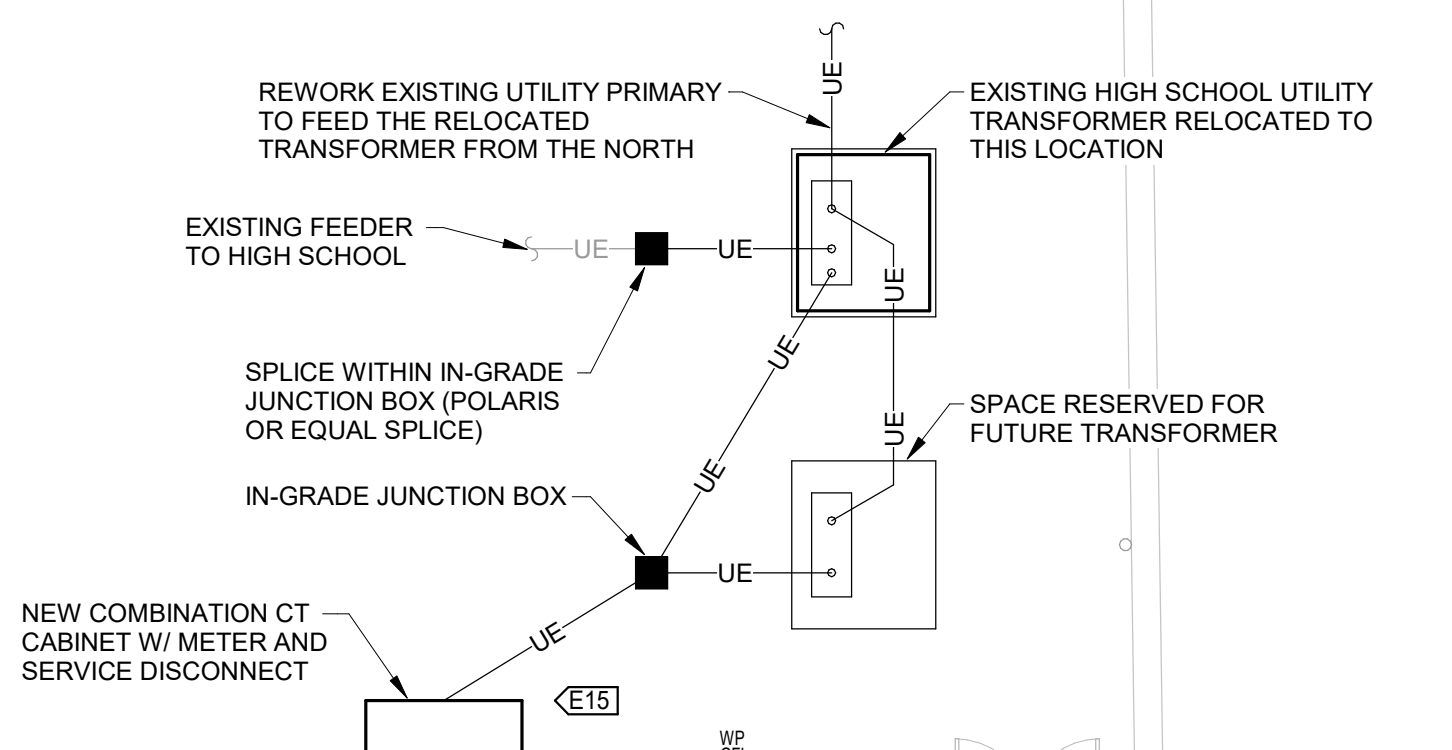


2 ENLARGED MECH RM POWER PLAN  
1/4" = 1'-0"



1 POWER PLAN  
1/8" = 1'-0"

VALUE	DESCRIPTION
E03	INSTALL RECEPTACLE IN CEILING TILE FOR POWER TO PROJECTOR. COORDINATE LOCATION WITH OWNER.
E08	JUNCTION BOX FOR ELECTRIC HAND DRYER. SEE ELECTRIC HAND DRYER SCHEDULE.
E13	CONDENSER IS MOUNTED ON ROOF ABOVE MECHANICAL ROOM.
E14	PROVIDE (1) VARIABLE-SPEED CONTROLLER WITH INTEGRAL SAFETY SWITCH PER HYDRONIC PUMP. PROVIDE SEPARATE SAFETY SWITCH IF NOT AVAILABLE AS INTEGRAL COMPONENT OF CONTROLLER. MOUNT HYDRONIC PUMP-VARIABLE-SPEED CONTROLLERS AND SAFETY SWITCHES ON STRUT CHANNEL FRAME. DO NOT EXTEND STRUT CHANNEL FRAME INTO THE SPACE DIRECTLY BELOW THE DOAS-1 UNIT.
E15	SEE CIVIL SITE UTILITY PLAN FOR ADDITIONAL DETAILS ON EXTERIOR ELECTRICAL ITEMS.
E16	SPACE RESERVED FOR FUTURE EQUIPMENT.
E17	CONVENIENCE RECEPTACLE FOR CONDENSER.
E18	COORDINATE INSTALLATION OF RECEPTACLE IN BOX ON TOP OF COUNTER WITH MANUFACTURER OF INSTRUCTOR TABLE.
E23	COORDINATE INSTALLATION OF RECEPTACLE UNDER COUNTER FOR FUTURE DISHWASHER (BY OTHERS) WITH MANUFACTURER OF INSTRUCTOR TABLE.
E24	PROVIDE GFCI BREAKER ON ELECTRIC WATER COOLER CIRCUIT.
E30	REMOVE AND DISPOSE OF EXISTING RECEPTACLES FROM DEMOLISHED EXISTING WALLS.



**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 Columbia, Missouri  
 907 East Ash St.  
 St. Louis, MO 63101  
 Phone: 314.436.5888  
 www.klingner.com

REVISION HISTORY
1 DESCRIPTION DATE APPR
101 SUPPLEMENTAL INFORMATION 1 04/07/2023 JBM
102 SUPPLEMENTAL INFORMATION 2 04/18/2023 JBM

Klingner & Associates, P.C.  
 Missouri State Certificate of Authority  
 No. E-000866

ISSUED FOR: **02/16/2023**

**BUILDING PERMIT REVIEW**

JOSHUA BRADLEY MOORE  
 PE, 2023038556  
 PROFESSIONAL ENGINEER

JOSHUA B. MOORE - ENGINEER  
 MO # PE-2022038556

HALLSVILLE MIDDLE SCHOOL ADDITION  
 HALLSVILLE SCHOOL DISTRICT  
 421 MO-124 E  
 HALLSVILLE, MO 65255

Non-Reduced Sheet Size 30" x 42"  
 Full sized plans have been prepared using standard scales.  
 Reduced sized plans may not conform to standard scales.

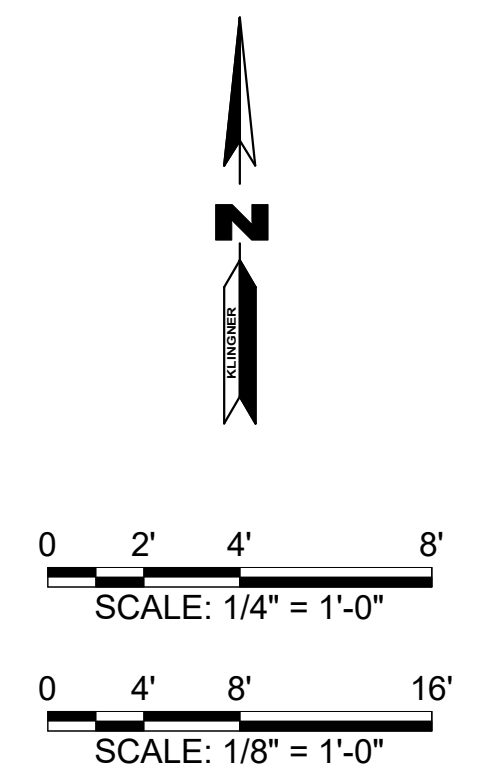
DESIGNED	JBM	DRAWN	JBM
FIELD	JBM	FIELD BOOK	JBM
CHECKED	JUN	CHECK DATE	04/18/2023

SHEET TITLE  
**POWER PLAN**

PROJECT NO.  
 21-0932

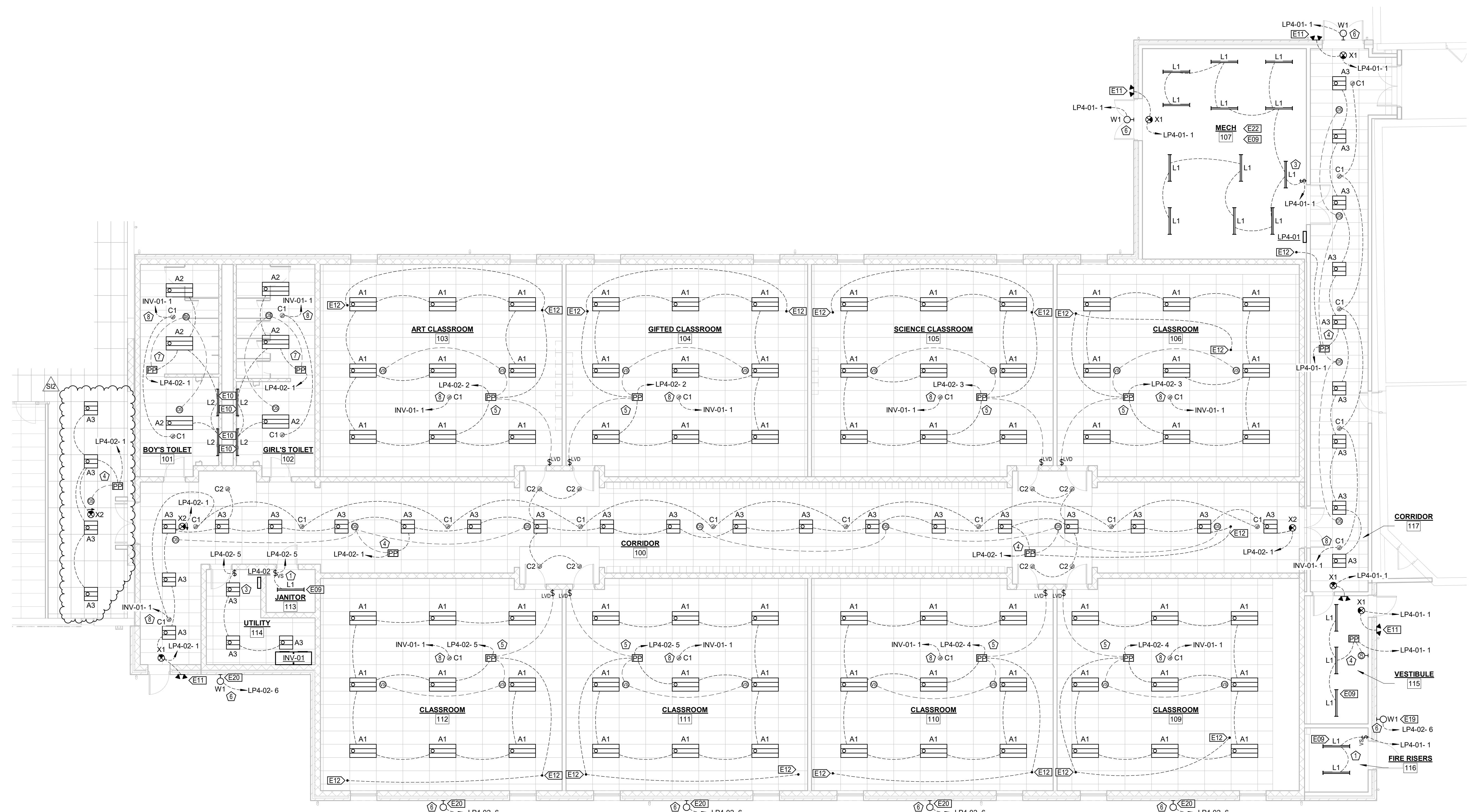
DRAWING ISSUED DATE:  
 04/18/2023

SHEET  
**E100**



**KEYNOTE LEGEND**

VALUE	DESCRIPTION
E09	STRIP LIGHT FIXTURE SUSPENDED AT APPROX. 9' AFF. (TYPICAL FOR MATCHING FIXTURES WITHIN A ROOM)
E10	WRAPAROUND LIGHT FIXTURE MOUNTED AT APPROX. 7.5' AFF.
E11	COORDINATE INSTALLATION OF EMERGENCY REMOTE HEADS WITH ARCHITECTURE.
E12	PROVIDE CIRCUIT TO OUTDOOR AIR DAMPER. SEE MECHANICAL DETAILS FOR CONTROL SEQUENCE.
E19	INSTALL EXTERIOR WALL PACK AT APPROX. 9' ABOVE GRADE.
E20	INSTALL EXTERIOR WALL PACK AT APPROX. 11' ABOVE GRADE.
E22	COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SYSTEMS.



**1 LIGHTING PLAN**  
 1/8" = 1'-0"

BRANCH PANEL: LP4-01													
LOCATION: MECH 107				VOLTS: 120/208				A.I.C. RATING: 100,000 AMPS SYMMETRICAL					
SUPPLY FROM: MDP				PHASES: 3				PANEL TYPE: MLO					
MOUNTING: SURFACE				WIRES: 4				MAINS RATING: 400 A					
ENCLOSURE: NEMA 1				ACCESSORIES: PROVIDE FEED-THRU LUGS									
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT			
1	LIGHTING: 107, 115-117, NORTH EXT.	20 A	1	1287 VA				1	20 A	RCPT: 115-117			
3	RCPT: 107 WEST/EXTERIOR ROOF	20 A	1		900 VA	900 VA		1	20 A	RCPT: 107 EAST/EXTERIOR WALL			
5						4503 VA	21783 VA						
7	CONDENSER C-01	40 A	3	4503 VA	21783 VA	4503 VA	21783 VA	3	225 A	CHILLER CH-01			
11						901 VA	901 VA						
13	CHWP-01	20 A	3	901 VA	901 VA			3	20 A	CHWP-02			
15						901 VA	901 VA						
17						901 VA	901 VA						
19	HWP-01	20 A	3	901 VA	901 VA			3	20 A	HWP-02			
21						901 VA	901 VA						
23						1441 VA	502 VA	1	15 A	FCU-11 & BOILER B-1			
25	DOAS-1	15 A	3	1441 VA	788 VA			1	15 A	WH-1, DCP-1, WS-01			
27						1441 VA	726 VA	1	15 A	EXHAUST FAN EF-3 & LOUVER L5			
29	FCU-10	20 A	1			616 VA	1500 VA	1	20 A	FIRE RISER RM WALL HEATER			
31	SPACE	--	--	0 VA	0 VA			--	--	SPACE			
33	SPACE	--	--	0 VA	0 VA			--	--	SPACE			
35	SPACE	--	--	0 VA	0 VA			--	--	SPACE			
37	SPACE	--	--	0 VA	0 VA			--	--	SPACE			
39	SPACE	--	--	0 VA	0 VA			--	--	SPACE			
41	SPACE	--	--	0 VA	0 VA			--	--	SPACE			
PHASE LOAD:				34,665 VA	33,856 VA	0 VA	0 VA	**TOTAL LOAD: 102,469 VA					
PHASE AMPS:				289 A	282 A			**TOTAL AMPS: 284 A					

Branch Panel: INV-01													
LOCATION: UTILITY 114				VOLTS: 120/208				A.I.C. RATING: 65 KAIC					
SUPPLY FROM:				PHASES: 3				CAPACITY: 8250 VA					
MOUNTING: FLOOR				WIRES: 4									
ENCLOSURE: NEMA 1													
<b>Notes:</b>													
REFER TO INVERTER WIRING DIAGRAM.													
INVERTER SHALL PROVIDE RATED CAPACITY FOR 90 MINUTES (MINIMUM).													
CKT	Circuit Description	Trip	Poles	A	B	C							
1	LIGHTING: EMERGENCY WAFER	20 A	1	367 VA									
2,3,4	EMERGENCY EXHAUST FAN EF-1	20 A	3	901 VA	901 VA	901 VA							
5,6,7	EMERGENCY EXHAUST FAN EF-2	20 A	3	901 VA	901 VA	901 VA							
8	MOTORIZED DAMPERS M3 & M4	20 A	1		60 VA								
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
Total Load:				2169 VA	1861 VA	1801 VA							
Total Amps:				18 A	16 A	15 A							

BRANCH PANEL: LP4-02													
LOCATION: UTILITY 114				VOLTS: 120/208				A.I.C. RATING: 22,000 AMPS SYMMETRICAL					
SUPPLY FROM: MDP				PHASES: 3				PANEL TYPE: MLO					
MOUNTING: SURFACE				WIRES: 4				MAINS RATING: 200 A					
ENCLOSURE: NEMA 1				ACCESSORIES: PROVIDE FEED-THRU LUGS									
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT			
1	LIGHTING: 100-102	20 A	1	1637 VA	1274 VA			1	20 A	LIGHTING: 103-104			
3	LIGHTING: 105-106	20 A	1		1274 VA	1274 VA		1	20 A	LIGHTING: 109-110			
5	LIGHTING: 111-114	20 A	1			1450 VA	156 VA	1	20 A	LIGHTING: SOUTH/EAST EXTERIOR			
7	RCPT: 103 NORTHWEST	20 A	1	900 VA	720 VA			1	20 A	RCPT: 103 SOUTH/EAST/CLNG			
9	RCPT: 104 NORTHWEST	20 A	1		900 VA	900 VA		1	20 A	RCPT: 104 SOUTH/EAST/CLNG			
11	RCPT: 105 NORTHWEST/AC	20 A	1			1080 VA	720 VA	1	20 A	RCPT: 105 SOUTH/EAST/CLNG			
13	RCPT: 105 FUTURE DISHWASHER	20 A	1	1440 VA	900 VA			1	20 A	RCPT: 106 SOUTH/EAST			
15	RCPT: 106 NORTHWEST/CLNG	20 A	1		720 VA	900 VA		1	20 A	RCPT: 109 SOUTH/EAST			
17	RCPT: 109 NORTHWEST/CLNG	20 A	1			720 VA	720 VA	1	20 A	RCPT: 110 SOUTH/EAST/CLNG			
19	RCPT: 110 NORTHWEST	20 A	1	900 VA	900 VA			1	20 A	RCPT: 111 SOUTH/EAST			
21	RCPT: 111 NORTHWEST/CLNG	20 A	1		720 VA	720 VA		1	20 A	RCPT: 112 SOUTH/EAST/CLNG			
23	RCPT: 112 NORTHWEST	20 A	1			900 VA	360 VA	1	20 A	RCPT: RESTROOMS			
25	RCPT: 113-114	20 A	1	720 VA	1104 VA			1	20 A	RCPT: WATER COOLERS			
27	MIDDLE SCHOOL DATA RACK 2	20 A	1		360 VA	900 VA		1	20 A	RCPT: CORRIDOR 100			
29	FACP	20 A	1			240 VA	1231 VA	1	20 A	FCU-1, FCU-2			
31	MAGNETIC DOOR HOLD OPENS	20 A	1	60 VA	1080 VA			1	20 A	FCU-5			
33	FCU-6, FCU-7	20 A	1		1231 VA	1231 VA		1	20 A	FCU-8, FCU-9			
35	BOYS HAND DRYER NORTH	20 A	1			1464 VA	1464 VA	1	20 A	GIRLS HAND DRYER NORTH			
37	MIDDLE SCHOOL DATA RACK 1	20 A	1	360 VA	2750 VA			3	70 A	SEVERE WEATHER INVERTER INV-01			
39	FCU-3, FCU-4	20 A	1		1231 VA	2750 VA							
41	GIRLS HAND DRYER SOUTH	20 A	1			1464 VA	2750 VA	1	20 A	SPARE			
43	BOYS HAND DRYER SOUTH	20 A	1	1464 VA	0 VA			1	20 A	SPARE			
45	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE			
47	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE			
49	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE			
51	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE			
53	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE			
PHASE LOAD:				16,209 VA	15,112 VA	14,720 VA		**TOTAL LOAD: 46,041 VA					
PHASE AMPS:				136 A	126 A	123 A		**TOTAL AMPS: 128 A					

LIGHT FIXTURE SCHEDULE													
TAG	DESCRIPTION	MOUNT	LENS	LAMP TYPE	LAMP COLOR TEMP.	NOMINAL OUTPUT	DRIVER CONTROL	VOLTAGE	LOAD	BASIS OF DESIGN		ACCESSORIES	REMARKS
										MAKE	MODEL		
A1	2X4 ARCHITECTURAL TROFFER	LAY-IN	RIBBED	LED	4000 K	7200 lm	DIMS TO 1%	120 V	65 VA	DAY-BRITE 2-FG-G-74L-840-4-D-UNV-DIM LITHONIA 2BL14-72L-ADP-EZ1-LP840 METALUX 24CZ2-70HE-UNV-L840-HCD1			
A2	2X4 ARCHITECTURAL TROFFER	LAY-IN	RIBBED	LED	4000 K	6000 lm	DIMS TO 1%	120 V	48 VA	DAY-BRITE 2-FG-G-54L-840-4-D-UNV-DIM LITHONIA 2BL14-60L-ADP-EZ1-LP840 METALUX 24CZ2-60UNV-L840-HCD1			
A3	2X2 ARCHITECTURAL TROFFER	LAY-IN	RIBBED	LED	4000 K	4500 lm	DIMS TO 1%	120 V	44 VA	DAY-BRITE 2-FG-G-45L-840-2-D-UNV-DIM LITHONIA 2BL12-48L-ADP-EZ1-LP840 METALUX 22CZ2-44UNV-L840-HCD1			
C1	EMERGENCY RECESSED WAFER LIGHT	RECESSED	FLUSH	LED	4000 K	1200 lm		120 V	14 VA	HALO HL86-09-940-1E-MW LITHONIA WFB-LED-30K40K50K-90CRI-MW NORA NEFLINTW-R6MPW		CONNECTED TO LIGHTING INVERTER	
C2	RECESSED WAFER LIGHT	RECESSED	FLUSH	LED	4000 K	1200 lm		120 V	14 VA	HALO HL86-09-940-1E-MW LITHONIA WFB-LED-30K40K50K-90CRI-MW NORA NEFLINTW-R6MPW			
L1	4' STRIP	SUSPENDED	DIFFUSE	LED	4000 K	5000 lm		120 V	45 VA	DAY-BRITE FSS-4-55L-840-UNV-DIM LITHONIA CLX-48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH METALUX 4SL1P404000-100V			
L2	4' WRAPAROUND	WALL	DIFFUSE	LED	4000 K	3000 lm		120 V	29 VA	DAY-BRITE FSW-4-30L-840-UNV-DIM LITHONIA BLWP4-30L-ADP-EZ1-LP840 METALUX 4SWLED-32SL-LW-UNV-L840-CD1			
W1	EXTERIOR WALL PACK	WALL	CLEAR	LED	3000 K	2500 lm		120 V	26 VA	LITHONIA WPX1-LED-P2-30K-MVOLT-FE-DBLXD LUMARK XTOR3B-Y-BK-PC1 STONOCO LPW16-20-WW-G3-4-120-PCB-BK		INTEGRAL PHOTOCELL	
X1	EXIT SIGN W/ REMOTE HEADS	WALL/CEILING		LED				120 V	13 VA	CHLORIDE CLX-NRW-4R LITHONIA LHQM-LED-R-HO-R0-SD SURE-LITES LPX-R5-SD	CLR-2-W-G ELA-T-QWP-L0309-SD SR-P-25-D-GY	SELF-DIAGNOSTICS, WET-LOCATION DUAL REMOTE HEAD	
X2	EXIT SIGN	WALL/CEILING		LED				120 V	9 VA	CHLORIDE CLX-NRW LITHONIA LHQM-LED-R-HO-R0-SD SURE-LITES LPX-7-SD		SELF-DIAGNOSTICS	

SPEAKER SCHEDULE							
MARK	TYPE	BASIS OF DESIGN		SENSITIVITY	FREQUENCY RESPONSE	DISPERSION	COMMENTS
		MAKE	MODEL				
SPE-1	8" CEILING-MOUNTED CONE LOUDESPEAKER	ATLAS	SD72W	97 dB @ 1W/1M	55Hz - 19KHz (+/- 5dB)	105 DEGREES	PROVIDE WITH ALL REQUIRED MOUNTING HARDWARE

BASIS OF DESIGN EQUIPMENT IS LISTED. OTHER MANUFACTURERS AND MODELS ARE ACCEPTABLE WITH ENGINEER APPROVAL.

ELECTRIC HAND DRYER SCHEDULE					
DESCRIPTION	MOUNT	BASIS OF DESIGN		VOLTAGE	LOAD
		MAKE	MODEL		
SENSOR-OPERATED WARM AIR ELECTRIC HAND DRYER	MASONRY WALL	EXCEL DRYER	XL-BW-120	120 V	1,450 W

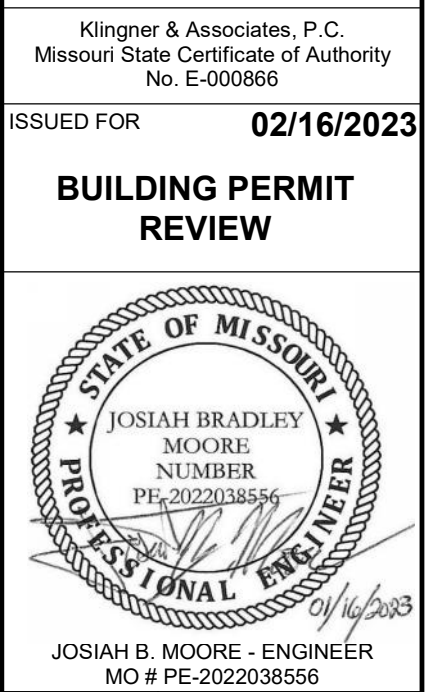
SECURITY CAMERA SCHEDULE																
MARK	MOUNT	BASIS OF DESIGN		TEMP/HUMIDITY RATINGS	PROTECTION	ANGLE ADJUSTMENT	FIELD OF VIEW (FOV)	IMAGE SENSOR	SLOW SHUTTER	FOCAL LENGTH / APERTURE / FOCUS	DAY/ NIGHT	VIDEO BIT RATE	MAXIMUM RESOLUTION	NETWORK STORAGE	ALARM TRIGGERS	COMMUNICATION INTERFACE
		MAKE	MODEL													
CAM-1	INDOOR CEILING	HIKVISION	EVI-D642Z	-22°F TO 140°F, 95% MAXIMUM HUMIDITY (NON-CONDENSING)	IP67, TVS 2000V LIGHTING PROTECTION, TRANSIENT VOLTAGE PROTECTION, IK10, SURGE PROTECTION	PAN 0-355° TILT: 0-70° ROTATION: 0-360°	HORIZONTAL: 98-28° VERTICAL: 51-16°	1/3" PROGRESSIVE SCAN CMOS	YES	2.8-12 mm f/1.6 AUTOMATIC	IR CUT FILTER (IR RANGE: 100 FT)	32 Kbps TO 8 Mbps	2560 X 1440	microSD/SDHC/SDXC CARD (128 GB), LOCAL STORAGE, ANR, NAS (NFS, SMB/CIFS)	MOTION DETECT, IP ADDRESS CONFLICT, VIDEO TAMPER, ILLEGAL LOGIN, NETWORK DISCONNECT	SINGLE-PORT RJ-45 10M/100M SELF-ADAPTING ETHERNET PORT

1. PROVIDE WITH ALL REQUIRED MOUNTING HARDWARE.  
2. BASIS OF DESIGN EQUIPMENT IS LISTED. OTHER MANUFACTURERS AND MODELS ARE ACCEPTABLE WITH ENGINEER APPROVAL.

**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
www.klingner.com  
Columbia, Missouri  
907 East Ash St.  
Pella, IA 50224  
Des Moines, IA 50319  
Hannibal, MO 63401  
573.955.5988

REVISION HISTORY			
NO.	DESCRIPTION	DATE	APPR.
1	ISSUE FOR REVIEW	04/18/2023	JBM

Klingner & Associates, P.C.  
Missouri State Certificate of Authority  
No. E-000866  
ISSUED FOR: 02/16/2023  
**BUILDING PERMIT REVIEW**



JOSIAH B. MOORE, ENGINEER  
MO # PE-202208556

HALLSVILLE MIDDLE SCHOOL ADDITION  
HALLSVILLE SCHOOL DISTRICT  
421 MO-124 E  
HALLSVILLE, MO 65255

DESIGNED		DRAWN	
JBM	JBM	JBM	JBM
FIELD BOOK		FIELD BOOK	
CHECKED	JUN	CHECK DATE	04/18/2023
SHEET TITLE			
ELECTRICAL SCHEDULES			
PROJECT NO. 21-0922			
DRAWING ISSUED DATE: 04/18/2023			
SHEET			
E601			

Non-Reduced Sheet Size 30" x 42"  
Full sized plans have been prepared using standard scales.  
Reduced sized plans may not conform to standard scales.



S. M. Wilson & Co.  
 2185 Hampton Ave., St. Louis, MO 63139  
 222 1st Ave., Suite A, Edwardsville, IL 62025

**CHANGE ORDER REQUEST**  
**No. 14**

**TO:** HALLSVILLE R-IV SCHOOL DISTRICT  
 421 E. Hwy 124  
 Hallsville MO 65255

**JOB #:** 0122010.00

**ATTN:** Bryan Wildenhain

**JOB NAME:** Hallsville New Middle School  
 Addition & Track & Field  
 Improv

**RE:** ASI#06 - Added Transfer Air Duct

**DATE:** February 09, 2024

This change order is for the added transfer air ducts from each classroom to corridor 100 per ASI #06.

Description	Net Amount
ASI#06 - Added Transfer Air Duct	
Per Teel's Revised Proposal for ASI#06, proposal #3492 furnish and install transfer ducts and air devices per ASI #06 rev 1 documents.	10,548.61
Owner Contingency	
Utilize owner contingency to pay for this additional transfer air duct	(10,548.61)
<b>Subtotal:</b>	<b>\$0.00</b>
SDI (Subcontracts):	\$0.00
SDI (Purchase Orders):	\$0.00
Performance & Payment Bond:	\$0.00
General Liability:	\$0.00
FEE:	\$0.00
<b>Total Cost:</b>	<b>\$0.00</b>

- NOTES:
1. The approval of this Change Order Request is important to the progress of this project. Your approval is required as soon as possible. Upon execution of this Change Order Request, a Change Order will be processed and forwarded to you for signature.
  2. This work is on hold pending authorization unless previously authorized.
  3. Extension of time necessary for this change is 0 calendar days.

This form will serve as our written authorization to proceed with the above work pending an official change order to our contract showing the revised contract amount.

HALLSVILLE R-IV SCHOOL  
 DISTRICT

KLINGNER & ASSOCIATES, P.C.

S. M. WILSON & CO.


Bryan Wildenhain

Matthew Bridges

Patrick Aylesworth

\_\_\_\_\_  
 Authorized Signature

\_\_\_\_\_  
 Authorized Signature

  
 \_\_\_\_\_  
 Authorized Signature

**2/9/2024**

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Date

**TEEL MECHANICAL SERVICE, INC.**  
 4388 COUNTY ROAD 203  
 PO BOX 6308  
 FULTON, MO 65251  
 Phone # (573) 642-9648

# Proposal

Date	Proposal #
2/6/24	3492

Name / Address
SM WILSON & CO. 2185 HAMPTON AVENUE ST. LOUIS, MO 63139

Project
HALLSVILLE SCHOOL

PRICE GOOD FOR 30 DAYS

Description	Total
<p>Teel Mechanical Service, Inc. is pleased to offer a price for the following:</p> <p>Re: ASI #06, Rev. 2</p> <p>Price to Install Transfer Ducts and Air Devices            Air Devices: \$1012            Ductwork Materials/Duct Liner: \$1378.00            Labor: \$8158.61                Install Sleeves: 16 hrs field, 8 hrs shop                Fabricate Ductwork: 26 hrs shop                Install Ductwork Rough-In: 34hrs field                Install Grills: 16 hrs field</p> <p>Exclusions:            Saw Cutting Block for Sleeves</p> <p style="text-align: right;">Proposed Price</p>	10,548.61

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorney's fees. PRICE GOOD FOR 30 DAYS

**Total**

\$10,548.61

October 23, 2023

## SUPPLEMENTAL INSTRUCTION 6 (SI 6)

For work titled:  
 Hallsville Middle School Addition

Project Number / Client Number:

**TO GENERAL CONTRACTOR**

### GENERAL NOTES

This Supplemental Instructions is issued for the purpose of clarifying the design intent of the Construction Documents.

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time. **If there is to be a change to contract cost or time, the contractor is responsible for providing this information in writing for approval before they begin work. A break down of cost for material and labor for both the general contractor and subcontractors is required for all change order requests.**

This Supplemental Instructions consists of one (1) – 8 1/2” x 11” pages including this cover sheet and one(1) - 30” x 42” sheets.

### DESCRIPTION

1	Sheet M102	ADD transfer air ducts from each classroom to Corridor 100.

### ATTACHMENTS

Sheet M102

**END OF SUPPLEMENTAL INSTRUCTIONS 6**

VALUE	DESCRIPTION
M05	SUSPEND DOAS-1 FROM MECHANICAL ROOM CEILING. MAINTAIN 8FT OF CLEARANCE FROM THE FINISHED FLOOR TO THE BOTTOM OF DOAS-1.
M06	BOTTOM OF TRANSFER DUCT SHALL BE 10'-8" ABOVE THE FINISHED FLOOR. FURNISH AND INSTALL TRANSFER DUCT WITH 1-1/2" NOMINAL THICKNESS POLYESTER DUCT LINER WITH FSK JACKET (R-6). REFER TO SSS4, DETAIL 13 FOR REQUIRED STRUCTURAL SUPPORTS AT WALL PENETRATION.

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 Peoria, IA, Davenport, IA, Hannibal, MO  
 907 East Ash St.  
 573.395.5988

REVISION HISTORY			
1	ISSUED FOR PERMIT	DATE	APPROVED
1	ISSUED FOR PERMIT	02/16/2023	MHB

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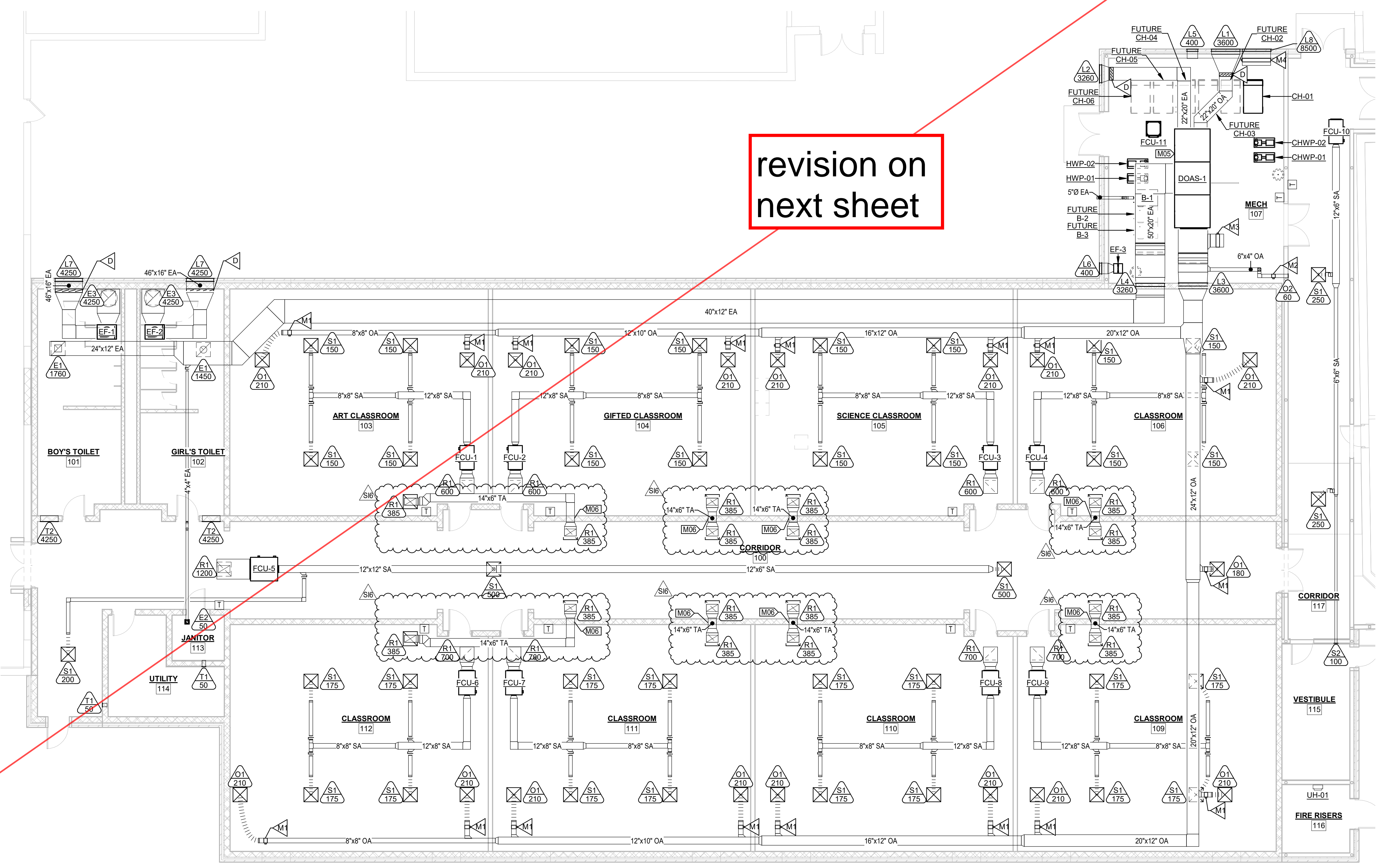
Klinger & Associates, P.C.  
 Missouri State Certificate of Authority  
 No. E-000866

ISSUED FOR: **02/16/2023**  
**BUILDING PERMIT REVIEW**

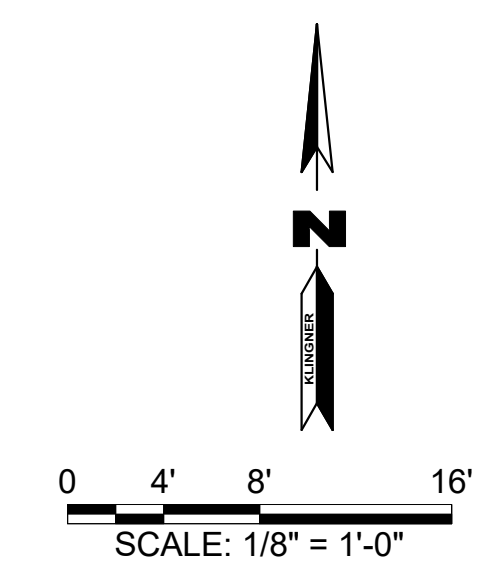
Matthew Hays Bridge  
 NUMBER: PE-2021031578  
 PROFESSIONAL ENGINEER

MATTHEW H BRIDGES - ENGINEER  
 MO # PE-2021031578

revision on next sheet



1 MECHANICAL DUCTWORK PLAN  
 1/8" = 1'-0"



HALLSVILLE MIDDLE SCHOOL ADDITION  
 HALLSVILLE SCHOOL DISTRICT  
 421 MO-124 E  
 HALLSVILLE, MO 65255

Non-Reduced Sheet Size 30" x 42"  
 Full sized plans have been prepared using standard scales.  
 Reduced sized plans may not conform to standard scales.

DESIGNED	DRAWN
MHB	MHB
FIELD	FIELD BOOK
JUN	
CHECKED	CHECK DATE
JUN	
SHEET TITLE	
MECHANICAL DUCTWORK PLAN	
PROJECT NO.	
21-0952	
DRAWING ISSUED DATE:	
02/16/2023	
SHEET	
M102	

10/2/2023 6:03:16 PM  
 C:\Users\mbridges\Documents\20MEP - Hallsville Middle School Addition.mxd\p1027.rvt

VALUE	DESCRIPTION
M05	SUSPEND DOAS-1 FROM MECHANICAL ROOM CEILING. MAINTAIN 8FT OF CLEARANCE FROM THE FINISHED FLOOR TO THE BOTTOM OF DOAS-1.
M06	BOTTOM OF TRANSFER DUCT SHALL BE 10'-8" ABOVE THE FINISHED FLOOR. FURNISH AND INSTALL TRANSFER DUCT WITH 1/2" NOMINAL THICKNESS POLYESTER DUCT LINER WITH FSK JACKET (R-6). REFER TO SSS4, DETAIL 13 FOR REQUIRED STRUCTURAL SUPPORTS AT WALL PENETRATION.

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REVISION HISTORY	DATE	APPR
1	10/23/2023	MHB
SUPPLEMENTAL INSTRUCTION 6		
SIB	12/05/2023	MHB
SIB	REF-31	

Klinger & Associates, P.C.  
 Missouri State Certificate of Authority  
 No. E-000866

ISSUED FOR: **02/16/2023**

**BUILDING PERMIT REVIEW**

Matthew Hays Bridge  
 NUMBER: PE-2021031578

1/14/2023  
 MATTHEW H BRIDGES - ENGINEER  
 MO # PE-2021031578

**HALLSVILLE MIDDLE SCHOOL ADDITION**  
**HALLSVILLE SCHOOL DISTRICT**  
**421 MO-124 E**  
**HALLSVILLE, MO 65255**

Non-Reduced Sheet Size 30" x 42"  
 Full sized plans have been prepared using standard scales.  
 Reduced sized plans may not conform to standard scales.

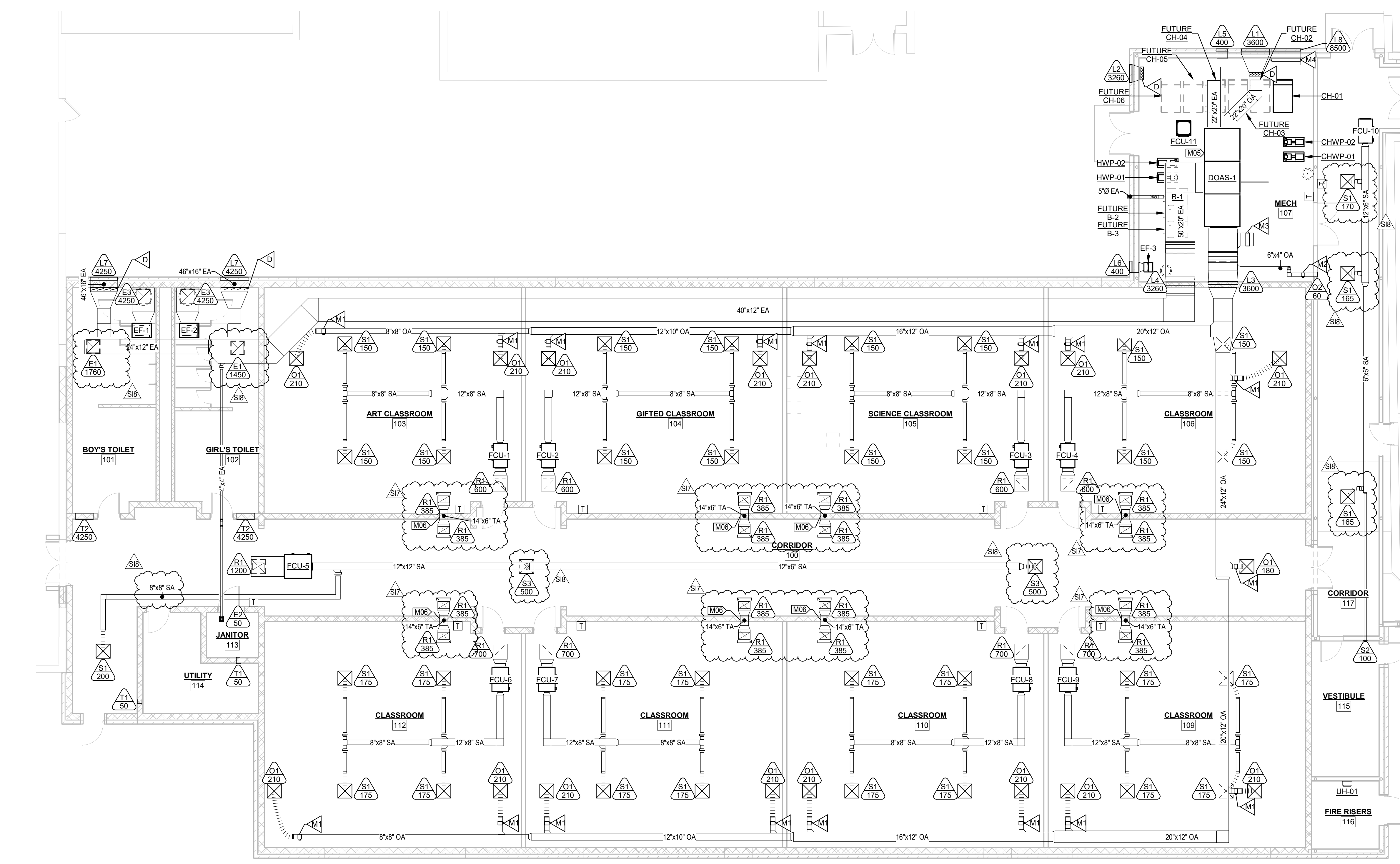
DESIGNED	MHB	DRAWN	MHB
FIELD	MHB	FIELD BOOK	MHB
CHECKED	JUN	CHECK DATE	

SHEET TITLE  
**MECHANICAL DUCTWORK PLAN**

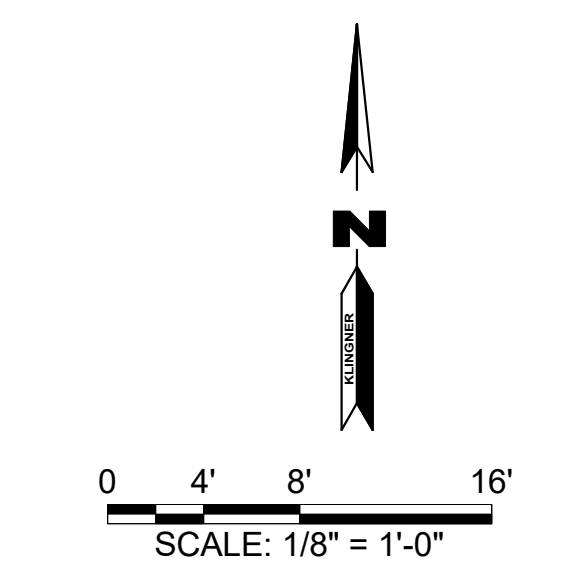
PROJECT NO.  
21-6952

DRAWING ISSUED DATE:  
02/16/2023

SHEET  
**M102**



1 MECHANICAL DUCTWORK PLAN  
 1/8" = 1'-0"



1/28/2024 11:27:34 AM  
 C:\Users\mbridges\Documents\201MEP - Hallsville Middle School Addition.mxd\pex\007.rvt



S. M. Wilson & Co.  
 2185 Hampton Ave., St. Louis, MO 63139  
 222 1st Ave., Suite A, Edwardsville, IL 62025

**CHANGE ORDER REQUEST**  
**No. 15**

<b>TO:</b> HALLSVILLE R-IV SCHOOL DISTRICT 421 E. Hwy 124 Hallsville MO 65255	<b>JOB #:</b> 0122010.00
<b>ATTN:</b> Bryan Wildenhain	<b>JOB NAME:</b> Hallsville New Middle School Addition & Track & Field Improv
<b>RE:</b> ASI #06 REV 1 - RFI #31 Diffuser & Duct Size	<b>DATE:</b> February 09, 2024

This change order is for the added and changed transfer air ducts and exhaust grilles per RFI 031. Per the RFI response, the diffuser airflow in some instances is higher than desired. The contractor shall add an additional S1 Diffuser to FCU-10 in Corridor 117 as shown on the attached M102 plan. The contractor shall change two of the S1 diffusers for FCU-5 in Corridor 100 with new S3 Diffusers as shown on the attached M102 plan and as defined on the attached M601 plan. The contractor shall change the two E1 Exhaust Grilles in the restrooms with new E1 Diffusers as shown on the attached M102 plan and as defined on the attached M601 plan.

Description	Net Amount
ASI #06 REV 1 - RFI #31 Diffuser & Duct Size	
Per Teels proposal for RFI 31 Diffuser and Duct sizes estimate #3434, furnish and install air devices per changes as noted in RFI 31 documents. This includes an additional S1 Diffuser to FCU-10 in Corridor 117, changing two of the S1 diffusers for FCU-5 in Corridor 100 with new S3 Diffuse, and changing the two E1 Exhaust Grilles in the restrooms with new E1 Diffusers.	2,040.15
Owner Contingency	
Utilize owner contingency to pay for additional air devices	(2,040.15)
<b>Subtotal:</b>	<b>\$0.00</b>
SDI (Subcontracts):	\$0.00
SDI (Purchase Orders):	\$0.00
Performance & Payment Bond:	\$0.00
General Liability:	\$0.00
FEE:	\$0.00
<b>Total Cost:</b>	<b>\$0.00</b>

- NOTES:
1. The approval of this Change Order Request is important to the progress of this project. Your approval is required as soon as possible. Upon execution of this Change Order Request, a Change Order will be processed and forwarded to you for signature.
  2. This work is on hold pending authorization unless previously authorized.
  3. Extension of time necessary for this change is 0 calendar days.



S. M. Wilson & Co.  
2185 Hampton Ave., St. Louis, MO 63139  
222 1st Ave., Suite A, Edwardsville, IL 62025

**CHANGE ORDER REQUEST**  
**No. 15**

**TO:** HALLSVILLE R-IV SCHOOL DISTRICT  
421 E. Hwy 124  
Hallsville MO 65255

**JOB #:** 0122010.00

**ATTN:** Bryan Wildenhain

**JOB NAME:** Hallsville New Middle School  
Addition & Track & Field  
Improv

**RE:** ASI #06 REV 1 - RFI #31 Diffuser & Duct Size

**DATE:** February 09, 2024

This form will serve as our written authorization to proceed with the above work pending an official change order to our contract showing the revised contract amount.

HALLSVILLE R-IV SCHOOL  
DISTRICT

KLINGNER & ASSOCIATES, P.C.

S. M. WILSON & CO.

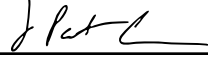
Bryan Wildenhain

Matthew Bridges

Patrick Aylesworth

\_\_\_\_\_  
*Authorized Signature*

\_\_\_\_\_  
*Authorized Signature*

  
\_\_\_\_\_  
*Authorized Signature*

**2/9/2024**

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Date*

**TEEL MECHANICAL SERVICE, INC.**  
 4388 COUNTY ROAD 203  
 PO BOX 6308  
 FULTON, MO 65251  
 Phone # (573) 642-9648

# Proposal

Date	Proposal #
12/14/23	3434

Name / Address
SM WILSON & CO. 2185 HAMPTON AVENUE ST. LOUIS, MO 63139

Project

PRICE GOOD FOR 30 DAYS

Description	Total
<p>Teel Mechanical Service, Inc. is pleased to offer a price for the following:</p> <p>Re: RFI 031</p> <p>HVAC:            Install Ductwork and Air Devices Per Changes            Materials: \$823.75            Labor: \$1216.40</p> <p style="text-align: right;">Proposed Price</p>	2,040.15

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorney's fees. PRICE GOOD FOR 30 DAYS

**Total** \$2,040.15

## RFI detail

## #031 Diffuser &amp; Duct Sizes



---

<b>Status</b>	<b>Closed</b>
<b>Created on</b>	Dec 4, 2023 by <b>Derrick Poindexter</b> (S.M. Wilson & Co.)
<b>Ball in court</b>	<b>Derrick Poindexter</b> (S.M. Wilson & Co.)
<b>Answered</b>	Dec 8, 2023 by <b>Amanda Springer</b> (Klinger & Associates)

---

**Question**

The air devices on the air device schedule on M601 that are labeled S-1, 24" x 24" with 6" round connection and in some cases appear to be undersized due to the amount of CFM's being called for on M102. For example, the S-1's in corridor 100 off FCU-5, are calling for 500 CFM's but the air devices are for 6" round duct, also on the same duct run in corridor 100, the duct size is listed as 12" x 12" and has 1200 CFM's. This same scenario on duct size appears to be constant for most of the duct runs, the classrooms have 700 CFM's and the supply duct listed is 12"x8". Please verify the duct sizes and air devices are labeled correctly on M102. The air devices for this project have been ordered and have been received per M601 schedule and approved submittals. In addition, most of the ductwork for this project has also been fabricated per M102. Please advise.

**Official response**

Amanda Springer (Klinger & Associates): The duct sizes shown on the plans is correct.

Diffuser airflow in some instances is higher than desired. The contractor shall add an additional S1 Diffuser to FCU-10 in Corridor 117 as shown on the attached M102 plan. The contractor shall change two of the S1 diffusers for FCU-5 in Corridor 100 with new S3 Diffusers as shown on the attached M102 plan and as defined on the attached M601 plan. The contractor shall change the two E1 Exhaust Grilles in the restrooms with new E1 Diffusers as shown on the attached M102 plan and as defined on the attached M601 plan.

By **Amanda Springer** (Klinger & Associates) - Dec 8, 2023, 12:56 PM CST

**References****Files (3)**

- [scd-square-cone-diffuser-performance-data.pdf](#)
- [RFI\\_031 Supplemental Instruction Drawings.pdf](#)
- [RFI\\_031.pdf](#)

## Impact

Cost impact -

Schedule impact -

## Other attributes

Priority Normal

Discipline -

Category -

Location -

Location details -

External id -

Co-reviewer(s)

Activities	By	At
<p><b>Amanda Springer</b> changed the status from <b>Open</b> In Review to <b>Open</b> Answered set Ball in court to <b>Derrick Poindexter</b> (S.M. Wilson &amp; Co.).</p>	<b>Amanda Springer</b>	Dec 8, 2023, 10:04 AM CST
<p><b>Amanda Springer</b> added a response: The duct sizes shown on the plans is correct. Diffuser airflow in some instances is higher than desired. The contractor shall add an additional S1 Diffuser to FCU-10 in Corridor 117 as shown on the attached M102 plan. The contractor shall change two of the S1 diffusers for FCU-5 in Corridor 100 with new S3 Diffusers as shown on the attached M102 plan and as defined on the attached M601 plan. The contractor shall change the two E1 Exhaust Grilles in the restrooms with new E1 Diffusers as shown on the attached M102 plan and as defined on the attached M601 plan.</p>	<b>Amanda Springer</b>	Dec 8, 2023, 10:04 AM CST
<p><b>Amanda Springer</b> added a reference to a file <b>RFI_031.pdf</b></p>	<b>Amanda Springer</b>	Dec 8, 2023, 10:04 AM CST
<p><b>Amanda Springer</b> added a reference to a file <b>RFI_031 Supplemental Instruction Drawings.pdf</b></p>	<b>Amanda Springer</b>	Dec 8, 2023, 10:04 AM CST
<p><b>Derrick Poindexter</b> added a reference to a file <b>scd-square-cone-diffuser-performance-data.pdf</b></p>	<b>Derrick Poindexter</b>	Dec 4, 2023, 10:49 AM CST
<p><b>Derrick Poindexter</b> (S.M. Wilson &amp; Co.) created this RFI in <b>Closed</b> status and set Ball in court to <b>Derrick Poindexter</b> (S.M. Wilson &amp; Co.).</p>	<b>Derrick Poindexter</b>	Dec 4, 2023, 10:48 AM CST

# PERFORMANCE DATA

## SCDA – Adjustable Pattern Controllers, 24 in. x 24 in. Face Size

Listed Size	Neck Velocity (fpm)		400	500	600	700	800	900	1000	1200	1400	1600
	Velocity Pressure (in. w.g.)		.01	.016	.022	.031	.040	.050	.062	.090	.122	.160
6	Total Pressure (in. w.g.)	H	.016	.026	.037	.050	.066	.083	.103	.148	.202	.263
		V	.027	.043	.062	.084	.110	.139	.171	.247	.336	.439
	Flow Rate (cfm)		78	98	118	137	157	176	196	235	274	314
	Sound (NC)	H	-	-	-	-	19	23	27	33	38	43
		V	-	16	21	25	28	31	34	39	43	46
	Radius of Diffusion	H	1-2-4	2-2-5	2-3-6	2-3-6	3-4-7	3-4-7	3-5-7	4-6-8	4-6-9	5-7-9
Vertical Throw	V	4	6	7	8	8	9	9	10	11	11	
8	Total Pressure (in. w.g.)	H	.020	.032	.046	.063	.082	.104	.128	.184	.250	.327
		V	.034	.053	.076	.104	.136	.172	.212	.262	.336	.439
	Flow Rate (cfm)		140	175	209	244	279	314	349	419	489	558
	Sound (NC)	H	-	-	-	17	22	26	30	36	41	46
		V	-	18	23	27	31	34	36	41	45	49
	Radius of Diffusion	H	2-3-5	2-3-7	3-4-8	3-5-8	3-5-9	4-6-9	4-7-10	5-8-11	6-8-12	7-9-12
Vertical Throw	V	6	7	9	9	10	11	11	12	13	14	
10	Total Pressure (in. w.g.)	H	.024	.038	.055	.075	.098	.124	.153	.220	.299	.391
		V	.040	.062	.090	.122	.160	.202	.249	.305	.389	.499
	Flow Rate (cfm)		218	273	327	382	436	491	545	654	763	872
	Sound (NC)	H	-	-	-	20	24	28	32	38	43	48
		V	-	20	25	29	33	36	38	43	47	51
	Radius of Diffusion	H	2-3-7	3-4-8	3-5-9	4-6-10	4-7-11	5-8-12	6-8-12	7-9-13	8-10-14	9-11-15
Vertical Throw	V	7	9	10	11	12	12	13	14	15	16	
12	Total Pressure (in. w.g.)	H	.028	.044	.063	.086	.112	.141	.175	.251	.342	.447
		V	.046	.072	.103	.141	.184	.232	.287	.353	.443	.562
	Flow Rate (cfm)		314	393	471	550	628	707	785	942	1099	1256
	Sound (NC)	H	-	-	16	22	26	30	34	40	45	50
		V	16	22	27	31	34	37	40	45	49	52
	Radius of Diffusion	H	3-4-8	3-5-10	4-6-11	5-7-12	5-8-13	6-9-14	7-10-15	8-11-16	10-12-17	11-13-19
Vertical Throw	V	9	10	11	12	12	13	14	15	16	17	
14	Total Pressure (in. w.g.)	H	.032	.050	.072	.098	.128	.162	.200	.287	.391	.511
		V	.052	.082	.118	.160	.209	.265	.327	.403	.499	.622
	Flow Rate (cfm)		428	535	641	748	855	962	1069	1283	1497	1710
	Sound (NC)	H	-	-	18	23	28	32	35	41	46	51
		V	17	23	28	32	35	39	41	46	50	54
	Radius of Diffusion	H	3-5-10	4-6-12	5-7-13	6-9-14	6-10-15	7-11-16	8-12-17	10-13-19	11-14-20	12-15-22
Vertical Throw	V	9	10	11	12	12	13	14	15	16	17	
15	Total Pressure (in. w.g.)	H	.034	.053	.076	.104	.136	.172	.212	.305	.415	.543
		V	.069	.108	.155	.211	.275	.348	.430	.529	.643	1.101
	Flow Rate (cfm)		491	614	736	859	982	1104	1227	1472	1718	1963
	Sound (NC)	H	-	-	19	24	28	32	36	42	48	52
		V	18	24	29	33	36	39	42	47	51	54
	Radius of Diffusion	H	4-5-11	4-7-13	5-8-14	6-9-15	7-11-16	8-12-17	9-13-18	11-14-20	12-15-22	13-16-23
Vertical Throw	V	8	9	10	11	12	13	13	14	16	17	

### Vertical Throw Factors

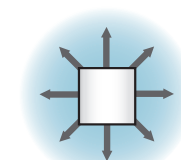
Ceiling Module	Listed Size	Cooling ΔT		Heating ΔT	
		-10 °F	0 °F	20 °F	40 °F
12"x12" /300 x 300	4	1.6	1.3	1.0	0.7
	5	1.6	1.3	1.0	0.7
	6	1.6	1.3	1.0	0.7
	7	1.6	1.3	1.0	0.7
20"x20" /500 x 500	6	1.7	1.3	1.0	0.7
	8	1.7	1.3	1.0	0.7
	10	1.7	1.3	1.0	0.6
24"x24" /600 x 600	6	1.7	1.3	1.0	0.7
	8	1.7	1.3	1.0	0.7
	10	1.7	1.4	1.0	0.6
	12	1.8	1.4	1.0	0.6
	15	2.1	1.5	1.0	0.5

The table lists throw factors to be applied to the vertical projections listed in the performance tables for temperature differentials other than 20 °F heating differential.

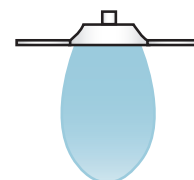
### Performance Notes:

- Tested in accordance with ASHRAE Standard 70 - 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Airflow is in cubic feet per minute [cfm].
- NC, sound pressure levels, are based on a room absorption of 10 dB re 10<sup>-12</sup> Watts, and a single diffuser/grille.
- Blanks "-" indicate an NC level below 15.
- All pressures are in inches of water column [in. w.g.].
- Pressures not listed can be calculated using the following formula:  $P_{total} = P_{static} + P_{velocity}$
- Horizontal throw data is based on supply air and room air being at isothermal conditions.
- Vertical throws are based on 20°F heating differential and 50 fpm terminal velocity.
- Throw data is given in feet [ft] to terminal velocities of:  
150 fpm (minimum)  
100 fpm (middle)  
50 fpm (maximum).
- Diffuser tested with a ceiling. If the diffuser is mounted on an exposed duct, multiply the throw in the performance table by 0.70.
- Does not include effects of ceiling radiation damper (SCDA-FR)

### Throw Diagram



Plan View - Horizontal Radial Pattern



Elevation View - Vertical Pattern

VALUE	DESCRIPTION
M05	SUSPEND DOAS-1 FROM MECHANICAL ROOM CEILING. MAINTAIN 8FT OF CLEARANCE FROM THE FINISHED FLOOR TO THE BOTTOM OF DOAS-1.
M06	BOTTOM OF TRANSFER DUCT SHALL BE 10'-8" ABOVE THE FINISHED FLOOR. FURNISH AND INSTALL TRANSFER DUCT WITH 1-1/2" NOMINAL THICKNESS POLYESTER DUCT LINER WITH FSK JACKET (R-6). REFER TO SSS4, DETAIL 13 FOR REQUIRED STRUCTURAL SUPPORTS AT WALL PENETRATION.

**KLINGNER & ASSOCIATES, P.C.**  
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REVISION HISTORY	DESCRIPTION	DATE	APPR
1	ISSUED FOR BUILDING PERMIT REVIEW	02/16/2023	MHB
2	SUPPLEMENTAL INSTRUCTION 6	10/23/2023	MHB
3	REF-31	12/05/2023	MHB

Klinger & Associates, P.C.  
 Missouri State Certificate of Authority  
 No. E-000866

ISSUED FOR: **02/16/2023**

**BUILDING PERMIT REVIEW**

MATTHEW H. BRIDGES - ENGINEER  
 MO # PE-2021031578

**HALLSVILLE MIDDLE SCHOOL ADDITION**  
**HALLSVILLE SCHOOL DISTRICT**  
**421 MO-124 E**  
**HALLSVILLE, MO 65255**

Non-Reduced Sheet Size 30" x 42"  
 Full sized plans have been prepared using standard scales.  
 Reduced sized plans may not conform to standard scales.

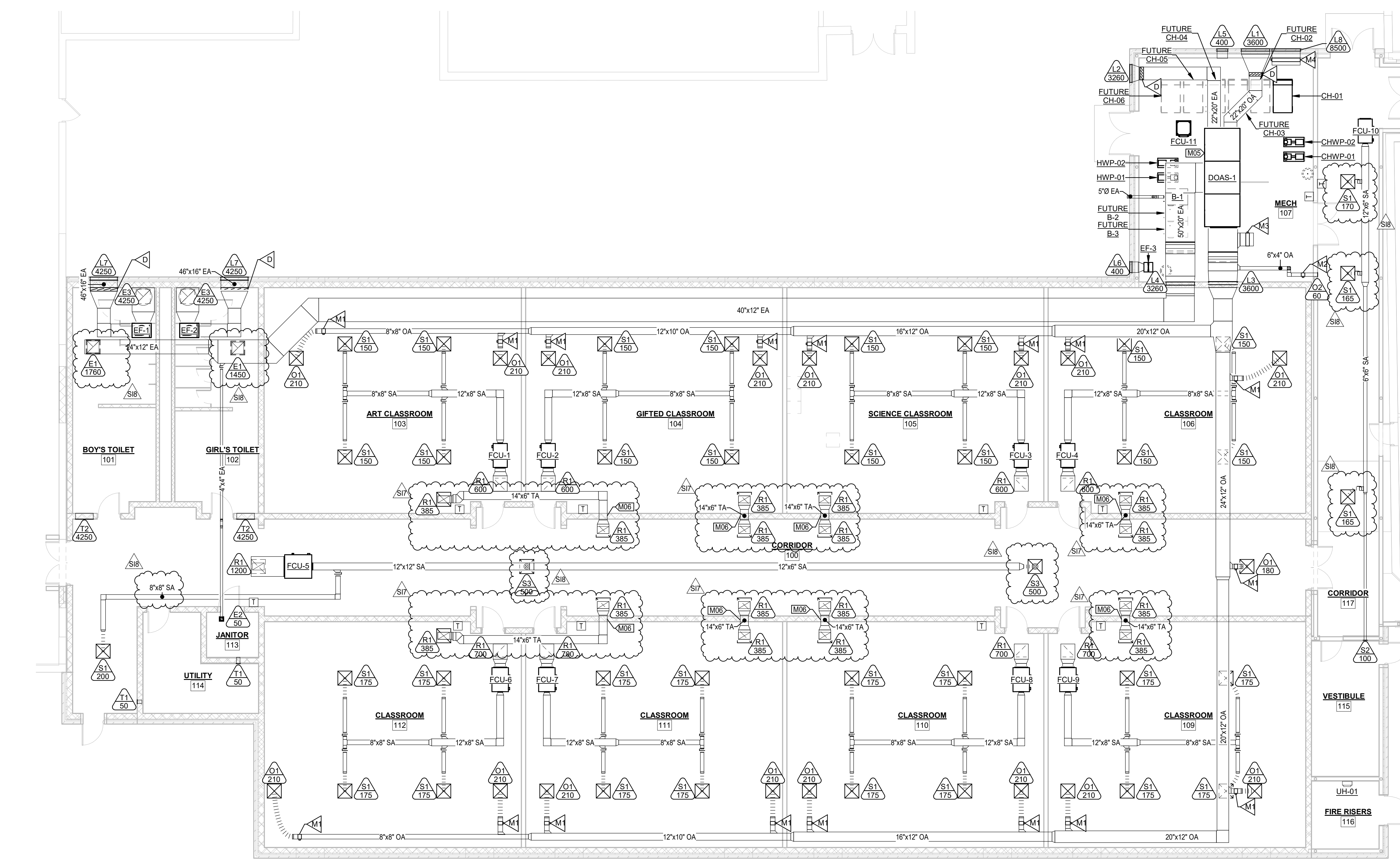
DESIGNED	MHB	DRAWN	MHB
FIELD	MHB	FIELD BOOK	MHB
CHECKED	JUN	CHECK DATE	

SHEET TITLE  
**MECHANICAL DUCTWORK PLAN**

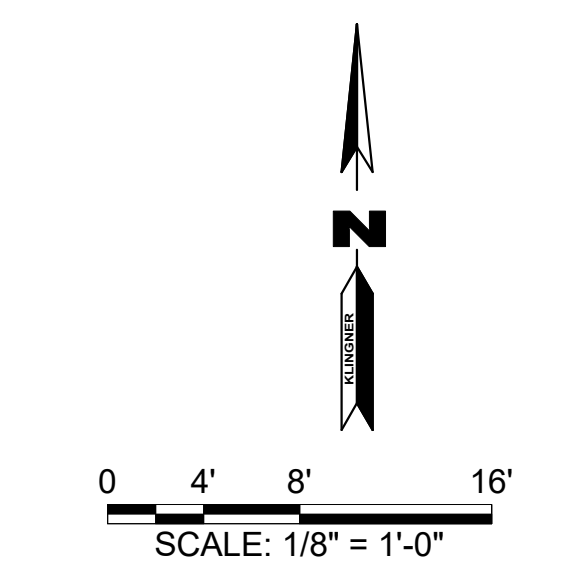
PROJECT NO.  
 21-6952

DRAWING ISSUED DATE:  
 02/16/2023

SHEET  
**M102**



**1 MECHANICAL DUCTWORK PLAN**  
 1/8" = 1'-0"



12/5/2023 4:34:46 PM  
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CHILLER SCHEDULE																		
BASIS OF DESIGN				NOMINAL CAPACITY (TONS)	MINIMUM CAPACITY (%)	REFRIGERANT	MAXIMUM FULL LOAD ENERGY USAGE (KW/TON)	DESIGN FLOW (GPM)	MINIMUM FLOW (GPM)	EVAPORATOR DESIGN EWT (DEG. F)	DESIGN LWT (DEG. F)	DESIGN PD (FT)	VOLTAGE	PHASE	HZ	MCA	MOCP	NOTES
CH-01	CARRIER	30MPA	MODULAR, REMOTE-CONDENSER TYPE CHILLER	45	10	R-410A	1.100	80	64	56	44	5.07	208	3	60	181.35	225	1,2,3,4

- NOTES:  
 1. PROVIDE WITH FACTORY INSTALLED BACNET CARD AND GRAPHICAL USER INTERFACE.  
 2. PROVIDE WITH DIGITAL COMPRESSOR ON LEAD CIRCUIT.

CONDENSER SCHEDULE														
BASIS OF DESIGN				DESIGN CAPACITY (TONS)	REFRIGERANT	DESIGN AMBIENT AIR TEMPERATURE (DEG. F)	MAXIMUM WIDTH (IN.)	MAXIMUM LENGTH (IN.)	VOLTAGE	PHASE	HZ	MCA	MOCP	NOTES
C-01	CARRIER	09DP	DUAL CIRCUIT, AIR-COOLED CONDENSER	80	R-410A	95	90	160	208	3	60	37.5	40	1,2

- NOTES:  
 1. SECURE CONDENSER TO ROOF. REFER TO STRUCTURAL PLANS.  
 2. PROVIDE WITH SECURITY GRILLES/HAIL GUARDS AND NON-FUSED DISCONNECT.

HYDRONIC PUMP SCHEDULE														
BASIS OF DESIGN				FUTURE DESIGN FLOW RATE (GPM)	FUTURE DESIGN HEAD (FT)	PHASE 1 DESIGN FLOW RATE (GPM)	PHASE 1 DESIGN HEAD (FT)	MINIMUM FLOW RATE (GPM)	MOTOR HP	MAXIMUM MOTOR RPM	VOLTAGE	PHASE	HZ	NOTES
CHWP-01	MECHANICAL ROOM	BELL & GOSSETT	e1510 CLOSED-COUPLED, END SUCTION CENTRIFUGAL	160	30	80	20	64	2	1800	208	3	60	1,2,3
CHWP-02	MECHANICAL ROOM	BELL & GOSSETT	e1510 CLOSED-COUPLED, END SUCTION CENTRIFUGAL	160	30	80	20	64	2	1800	208	3	60	1,2,3
HWP-01	MECHANICAL ROOM	BELL & GOSSETT	e1510 CLOSED-COUPLED, END SUCTION CENTRIFUGAL	60	20	30	2	18	2	1800	208	3	60	1,2,3
HWP-02	MECHANICAL ROOM	BELL & GOSSETT	e1510 CLOSED-COUPLED, END SUCTION CENTRIFUGAL	60	20	30	2	18	2	1800	208	3	60	1,2,3

- NOTES:  
 1. PROVIDE WITH SUCTION DIFFUSER AND TRIPLE DUTY VALVE FROM PUMP MANUFACTURER.  
 2. PROVIDE WITH INVERTER DUTY MOTOR.  
 3. PROVIDE WITH CIRCUIT SETTER.

FAN COIL UNIT SCHEDULE																			
BASIS OF DESIGN				COOLING				HEATING				ELECTRICAL							
MARK	MANUFACTURER	MODEL	CAPACITY (BTU/HR)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	FLOW RATE (GPM)	PRESSURE DROP (FT)	CAPACITY (BTU/HR)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	FLOW RATE (GPM)	PRESSURE DROP (FT)	AIRFLOW (CFM)	EXTERNAL STATIC (IN. WG)	VOLTAGE	PHASE	HZ	MCA	NOTES
FCU-1	CARRIER	42DC10	25,422	44	56	4.0	3.7	26,199	140	110	0.8	1.5	600	0.63	120	1	60	5.13	1,2,3
FCU-2	CARRIER	42DC10	25,422	44	56	4.0	3.7	26,199	140	110	0.8	1.5	600	0.63	120	1	60	5.13	1,2,3
FCU-3	CARRIER	42DC10	25,422	44	56	4.0	3.7	26,199	140	110	0.8	1.5	600	0.63	120	1	60	5.13	1,2,3
FCU-4	CARRIER	42DC10	25,422	44	56	4.0	3.7	26,199	140	110	0.8	1.5	600	0.63	120	1	60	5.13	1,2,3
FCU-5	CARRIER	42DC14	33,963	44	56	6.0	4.8	26,772	140	110	1.6	5.4	1,200	0.64	120	1	60	9.00	1,2,3
FCU-6	CARRIER	42DC10	25,422	44	56	4.3	4.3	26,199	140	110	0.9	1.5	700	0.63	120	1	60	5.13	1,2,3
FCU-7	CARRIER	42DC10	25,422	44	56	4.3	4.3	26,199	140	110	0.9	1.5	700	0.63	120	1	60	5.13	1,2,3
FCU-8	CARRIER	42DC10	25,422	44	56	4.3	4.3	26,199	140	110	0.9	1.5	700	0.63	120	1	60	5.13	1,2,3
FCU-9	CARRIER	42DC10	25,422	44	56	4.3	4.3	26,199	140	110	0.9	1.5	700	0.63	120	1	60	5.13	1,2,3
FCU-10	CARRIER	42DC10	25,422	44	56	4.3	4.3	26,199	140	110	0.9	1.5	700	0.63	120	1	60	5.13	1,2,3
FCU-11	CARRIER	42WKN08	2,800	44	56	0.5	2.0	5,600	140	110	0.4	1.0	260	--	120	1	60	0.88	1,2,3

- NOTES:  
 1. PROVIDE WITH CONDENSATE PUMP. CONDENSATE PUMPS MAY BE INTEGRAL OR FIELD PROVIDED AND EXTERNALLY MOUNTED.  
 2. PROVIDE WITH HOT WATER AND CHILLED WATER HYDRONIC CONTROL VALVES.  
 3. PROVIDE WITH ECM FAN.

DEDICATED OUTDOOR AIR UNIT SCHEDULE																															
BASIS OF DESIGN				SUPPLY FAN				EXHAUST FAN				COOLING COIL				PRE-HEATING COIL				POST-HEATING COIL											
MARK	MANUFACTURER	MODEL	DESCRIPTION	OCCUPANCY	AIR FLOW (CFM)	ESP (IN. WG)	BHP	AIR FLOW (CFM)	ESP (IN. WG)	BHP	CAPACITY (BTU/HR)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	FLOW RATE (GPM)	PRESSURE DROP (FT)	ENTERING AIR TEMPERATURE (DEG. F)	LEAVING AIR TEMPERATURE (DEG. F)	CAPACITY (BTU/HR)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	FLOW RATE (GPM)	PRESSURE DROP (FT)	ENTERING AIR TEMPERATURE (DEG. F)	LEAVING AIR TEMPERATURE (DEG. F)	CAPACITY (BTU/HR)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	FLOW RATE (GPM)	PRESSURE DROP (FT)	ENTERING AIR TEMPERATURE (DEG. F)	LEAVING AIR TEMPERATURE (DEG. F)
DOAS-1	AAON	H3	AIR HANDLING UNIT WITH ENERGY RECOVERY WHEEL	OCCUPIED	3,600	1.00	5	3,260	1.00	4	209,480	44	56	37.3	12.0	79.3/70.5	50/50	140	110	7.2	4.0	0	194,700	140	110	13	4.0	41.7	89.1		
				UNOCCUPIED	1,680	0.75	1,500	1,500	0.75																						

DEDICATED OUTDOOR AIR UNIT SCHEDULE-CONT.																	
BASIS OF DESIGN				SUMMER ENERGY RECOVERY WHEEL				WINTER ENERGY RECOVERY WHEEL				ELECTRICAL					
MARK	OCCUPANCY	OUTDOOR AIR ENTERING (DEG. F)	OUTDOOR AIR LEAVING (DEG. F)	EXHAUST AIR ENTERING (DEG. F)	EXHAUST AIR LEAVING (DEG. F)	OUTDOOR AIR ENTERING (DEG. F)	OUTDOOR AIR LEAVING (DEG. F)	EXHAUST AIR ENTERING (DEG. F)	EXHAUST AIR LEAVING (DEG. F)	SUPPLY SIDE PRESSURE DROP (IN. WC)	EXHAUST SIDE PRESSURE DROP (IN. WC)	VOLTAGE	PHASE	HZ	MCA	MOCP	NOTES
DOAS-1	OCCUPIED	85.3/79.2	79.3/70.5	75.0/62.0	81.5/73.1	0/-1	41.7/39.6	76.0/62.0	28.9/28.8	1.08	0.96	208	3	60	12	15	
	UNOCCUPIED					0/-1		76.0/62.0									

BOILER SCHEDULE																						
BASIS OF DESIGN				HEATING CAPACITY (BTU/HR)	HEATING INPUT (BTU/HR)	HEATING OUTPUT (BTU/HR)	MINIMUM EFFICIENCY (%)	MINIMUM TURNDOWN	WATER FLOW RATE (GPM)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	WATER CONNECTION SIZE (IN.)	VENT CONNECTION SIZE (IN.)	AIR INTAKE CONNECTION SIZE (IN.)	GAS CONNECTION SIZE (IN.)	MAXIMUM DIMENSIONS WIDTH (IN.)	DEPTH (IN.)	VOLTAGE	PHASE	HZ	FLA	NOTES
B-1	LOCHINVAR	KBX0550	NAT. GAS	650,000	650,000	630,500	97	63,650	30	110	140	2	4	1-1/4	30	45	120	1	60	3.3	1,2,3	

- NOTES:  
 1. PROVIDE WITH FACTORY INSTALLED BACNET CARD.  
 2. PROVIDE WITH A DEDICATED XX HP CIRCULATOR PUMP RATED FOR XX GPM AND XX FT HEAD.  
 3. PROVIDE ALL REQUIRED AIR SIDE, WATER SIDE, AND NATURAL GAS ACCESSORIES PER LOCAL CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

EXHAUST FAN SCHEDULE													
BASIS OF DESIGN				AIRFLOW (CFM)	ESP (IN. WG)	MOTOR HP	VOLTAGE	PHASE	HZ	FLA	NOTES		
EF-1	EMERGENCY EXHAUST FAN	GREENHECK	SG16	4,250	1.5	2	208	3	60	7.5	1		
EF-2	EMERGENCY EXHAUST FAN	GREENHECK	SG16	4,250	1.5	2	208	3	60	7.5	1		
EF-3	IN-LINE DUCT FAN	CAPTIVEAIRE	DFA-200-CA	400	0.10	0.25	120	1	60	4.8	1		

- NOTES:  
 1. PROVIDE WITH A SEPARATE MOTOR STARTER.


WALL HEATER SCHEDULE								
MARK	MANUFACTURER	MODEL	CAPACITY (KW)	VOLTAGE	PHASE	HZ	FLA	NOTES
UH-01	QMARK	CWH	1.5	120	1	60	12.5	1,2

- NOTES:  
 1. PROVIDE INTEGRAL THERMOSTAT.  
 2. PROVIDE WITH SURFACE MOUNTING FRAME.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE															
TAG	TYPE	DESCRIPTION	FACE SIZE			CONNECTION SIZE			THROW	DAMPER	MATERIAL	FINISH	FRAME	BASIS OF DESIGN	
			LENGTH	WIDTH	ROUND	RECTANGULAR	RECTANGULAR	ROUND						MAKE	MODEL
E1	CEILING RETURN	PERFORATED, FLUSH FACE PANEL, 3/16" DIAMETER HOLES, AND NO LESS THAN 5% FREE AREA.	24"	24"	22"	22"	0.10 in-wg	32	---	STEEL	WHITE ENAMEL	NOTE 1	TITUS	350RL	
E2	EXHAUST GRILLE	PARALLEL TO LONG DIMENSION, 3/4" SPACING.	8"	8"	4"	6"	0	---	OPPOSED BLADE DAMPER	STEEL	WHITE ENAMEL		TITUS	350RL	
E3	CEILING EXHAUST	1/2" x 1/2" x 1" EGGRATE GRID.	24"	24"	30"	30"	0.00 in-wg	0	---	ALUMINUM	WHITE ENAMEL		TITUS	50F	
O1	CEILING DIFFUSER	24x24 MODULAR FULL-FACE DIFFUSER WITH ROUND NECK	24"	24"	8"	0.00 in-wg	0	---	STEEL	WHITE ENAMEL		TITUS	TMSA		
O2	SUPPLY REGISTER	DOUBLE DEFLECTION REGISTER WITH FRONT BLADES PARALLEL TO LONG DIMENSION, 3/4" SPACING.	8"	6"	6"	4"	0.00 in-wg	0	---	STEEL	WHITE ENAMEL		TITUS	300RL	
R1	CEILING RETURN	1/2" x 1/2" x 1" EGGRATE GRID.	24"	24"	8"	0.00 in-wg	0	---	ALUMINUM	WHITE ENAMEL		TITUS	50F		
S1	CEILING SUPPLY DIFFUSER	24x24 MODULAR FULL-FACE DIFFUSER WITH ROUND NECK	24"	24"	8"	0.00 in-wg	0	---	STEEL	WHITE ENAMEL		TITUS	TMSA		
S2	CEILING REGISTER	DOUBLE DEFLECTION REGISTER WITH FRONT BLADES PARALLEL TO LONG DIMENSION, 3/4" SPACING.	8"	6"	6"	4"	0.00 in-wg	0	---	STEEL	WHITE ENAMEL		TITUS	350RL	
S3	CEILING DIFFUSER	24x24 MODULAR FULL-FACE DIFFUSER WITH ROUND NECK	24"	24"	10"	0.12 in-wg	5	7	12	28			TITUS	350RL	
T1	TRANSFER GRILLE	SIGHT PROOF GRILLE WITH INVERTED-V BLADES IN HORIZONTAL POSITION.	8"	6"	6"	4"	0	---	ALUMINUM	WHITE ENAMEL		TITUS	350RL		
T2	TRANSFER GRILLE	SIGHT PROOF GRILLE WITH INVERTED-V BLADES IN HORIZONTAL POSITION.	32"	26"	30"	24"	0	---	ALUMINUM	WHITE ENAMEL		TITUS	350RL		

LOUVER SCHEDULE																
TAG	DESCRIPTION	FUNCTION	AIRFLOW	WIDTH	HEIGHT	FRAME DEPTH	FREE AREA	MAX. P.D.	MAX. VELOCITY	MATERIAL	FINISH	DAMPER		BASIS OF DESIGN		REMARKS
												TYPE	ACTUATOR	MAKE	MODEL	
L1	COMBINATION INTAKE LOUVER	OUTDOOR AIR	3,600 CFM	4'-2"	4'-2"	0'-4"	8.0 SF	0.21 in-wg	500 FPM	ALUMINUM	BAKED ENAMEL	BACKDRAFT	N/A	RUSKIN	ELBD812	INCLUDED EXTENDED SILL AND END DAMS, INSECT SCREEN
L2	COMBINATION EXHAUST LOUVER	EXHAUST AIR	3,260 CFM	2'-8"	2'-8"	0'-4"	2.9 SF	0.27 in-wg	0 FPM	ALUMINUM	BAKED ENAMEL	BACKDRAFT	N/A	RUSKIN	ELBD813	INCLUDED EXTENDED SILL AND END DAMS, INSECT SCREEN
L3	FEMA 361 TORNADO LOUVER	OUTDOOR AIR	3,600 CFM	4'-2"	2'-8"	0'-5 1/2"	4.8 SF	0.18 in-wg	0 FPM	ALUMINUM	BAKED ENAMEL	N/A	N/A	RUSKIN	XP500	
L4	FEMA 361 TORNADO LOUVER	EXHAUST AIR	3,260 CFM	4'-2"	2'-8"	0'-5 1/2"	4.8 SF	0.14 in-wg	0 FPM	ALUMINUM	BAKED ENAMEL	N/A	N/A	RUSKIN	XP500	
L5	COMBINATION INTAKE LOUVER	OUTDOOR AIR	400 CFM	1'-8"	1'-8"	0'-4"	0.8 SF	0.21 in-wg	500 FPM	ALUMINUM	BAKED ENAMEL	ACTUATED	N/A	RUSKIN	ELBD812	INCLUDED EXTENDED SILL AND END DAMS, INSECT SCREEN
L6	COMBINATION EXHAUST LOUVER	EXHAUST AIR	400 CFM	1'-8"	1'-8"	0'-4"	0.8 SF	0.21 in-wg	0 FPM	ALUMINUM	BAKED ENAMEL	BACKDRAFT	N/A	RUSKIN	ELBD813	INCLUDED EXTENDED SILL AND END DAMS, INSECT SCREEN
L7	STATIONARY INTAKE LOUVER	OUTDOOR AIR	8,500 CFM	4'-2"	4'-2"	0'-4"	8.0 SF	0.21 in-wg	500 FPM	ALUMINUM	BAKED ENAMEL	N/A	N/A	RUSKIN	ELBD812	INCLUDED EXTENDED SILL AND END DAMS, INSECT SCREEN

MOTORIZED CONTROL DAMPER SCHEDULE									
MARK	BASIS OF DESIGN		DESCRIPTION	DUCT CONNECTION SIZE	DAMPER ACTUATOR	ELECTRICAL			NOTES
	MANUFACTURER	MODEL				VOLTAGE	PHASE	HZ	
M1	RUSKIN	CD40	NORMALLY CLOSED, MOTORIZED CONTROL DAMPER, OPPOSED BLADE	8"x8"-8"x8"	Yes	120 V	1	60 Hz	
M2	RUSKIN	CD40	NORMALLY CLOSED, MOTORIZED CONTROL DAMPER, OPPOSED BLADE	6"x4"-6"x4"	Yes	120 V	1	60 Hz	
M3	RUSKIN	CD40	NORMALLY CLOSED, MOTORIZED CONTROL DAMPER, OPPOSED BLADE	22"x20"-22"x20"	Yes	120 V	1	60 Hz	
M4	RUSKIN	CD40	NORMALLY CLOSED, MOTORIZED CONTROL DAMPER, OPPOSED BLADE	48"x48"-48"x48"	Yes	120 V	1	60 Hz	

RFI Number:		 <b>KLINGNER</b> <b>&amp; ASSOCIATES, P. C.</b> Engineers • Architects • Surveyors	<b>REQUEST FOR INFORMATION (RFI)</b>	
Date:				
A/E Project No.:				
Contractor Project No.:				
Project Name:				
To:		From:		
<p>The Work shall be carried out based on the following response without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time. If there is to be a change to contract cost or time, the contractor is responsible for providing this information in writing for approval before they begin work or get approval to being before pricing is done. A break down of cost for material and labor for both the general contractor and subcontractors is required for all change order requests. It is the contractor's responsibility to alert the architect and engineers within this request, or as soon as possible, of any conflicts that might occur as a result of this request.</p>				
<b>REQUEST</b>			<b>Requested Reply Date:</b>	
<b>Subject:</b>				
<b>Information Requested:</b>				
Requested By:		Requester's RFI Number (if applicable)		
Requester's Email:		Requester's Phone Number (if applicable)		
<b>RESPONSE</b>				
<b>Description of Response:</b>				
<b>Attachments:</b>				
			Page #	
			Page #	
Answered By:		Date:		
Email Address:		Phone:		

# PERFORMANCE DATA

## SCDA – Adjustable Pattern Controllers, 24 in. x 24 in. Face Size

Listed Size	Neck Velocity (fpm)		400	500	600	700	800	900	1000	1200	1400	1600
	Velocity Pressure (in. w.g.)		.01	.016	.022	.031	.040	.050	.062	.090	.122	.160
6	Total Pressure (in. w.g.)	H	.016	.026	.037	.050	.066	.083	.103	.148	.202	.263
		V	.027	.043	.062	.084	.110	.139	.171	.247	.336	.439
	Flow Rate (cfm)		78	98	118	137	157	176	196	235	274	314
	Sound (NC)	H	-	-	-	-	19	23	27	33	38	43
		V	-	16	21	25	28	31	34	39	43	46
	Radius of Diffusion	H	1-2-4	2-2-5	2-3-6	2-3-6	3-4-7	3-4-7	3-5-7	4-6-8	4-6-9	5-7-9
Vertical Throw	V	4	6	7	8	8	9	9	10	11	11	
8	Total Pressure (in. w.g.)	H	.020	.032	.046	.063	.082	.104	.128	.184	.250	.327
		V	.034	.053	.076	.104	.136	.172	.212	.262	.336	.439
	Flow Rate (cfm)		140	175	209	244	279	314	349	419	489	558
	Sound (NC)	H	-	-	-	17	22	26	30	36	41	46
		V	-	18	23	27	31	34	36	41	45	49
	Radius of Diffusion	H	2-3-5	2-3-7	3-4-8	3-5-8	3-5-9	4-6-9	4-7-10	5-8-11	6-8-12	7-9-12
Vertical Throw	V	6	7	9	9	10	11	11	12	13	14	
10	Total Pressure (in. w.g.)	H	.024	.038	.055	.075	.098	.124	.153	.220	.299	.391
		V	.040	.062	.090	.122	.160	.202	.249	.305	.386	.489
	Flow Rate (cfm)		218	273	327	382	436	491	545	654	763	872
	Sound (NC)	H	-	-	-	20	24	28	32	38	43	48
		V	-	20	25	29	33	36	38	43	47	51
	Radius of Diffusion	H	2-3-7	3-4-8	3-5-9	4-6-10	4-7-11	5-8-12	6-8-12	7-9-13	8-10-14	9-11-15
Vertical Throw	V	7	9	10	11	12	12	13	14	15	16	
12	Total Pressure (in. w.g.)	H	.028	.044	.063	.086	.112	.141	.175	.251	.342	.447
		V	.046	.072	.103	.141	.184	.232	.287	.353	.439	.543
	Flow Rate (cfm)		314	393	471	550	628	707	785	942	1099	1256
	Sound (NC)	H	-	-	16	22	26	30	34	40	45	50
		V	16	22	27	31	34	37	40	45	49	52
	Radius of Diffusion	H	3-4-8	3-5-10	4-6-11	5-7-12	5-8-13	6-9-14	7-10-15	8-11-16	10-12-17	11-13-19
Vertical Throw	V	9	10	11	12	12	13	14	15	16	17	
14	Total Pressure (in. w.g.)	H	.032	.050	.072	.098	.128	.162	.200	.287	.391	.511
		V	.052	.082	.118	.160	.209	.265	.327	.405	.505	.638
	Flow Rate (cfm)		428	535	641	748	855	962	1069	1283	1497	1710
	Sound (NC)	H	-	-	18	23	28	32	35	41	46	51
		V	17	23	28	32	35	39	41	46	50	54
	Radius of Diffusion	H	3-5-10	4-6-12	5-7-13	6-9-14	6-10-15	7-11-16	8-12-17	10-13-19	11-14-20	12-15-22
Vertical Throw	V	9	10	11	12	12	13	14	15	16	17	
15	Total Pressure (in. w.g.)	H	.034	.053	.076	.104	.136	.172	.212	.305	.415	.543
		V	.069	.108	.155	.211	.275	.348	.430	.529	.643	.781
	Flow Rate (cfm)		491	614	736	859	982	1104	1227	1472	1718	1963
	Sound (NC)	H	-	-	19	24	28	32	36	42	48	52
		V	18	24	29	33	36	39	42	47	51	54
	Radius of Diffusion	H	4-5-11	4-7-13	5-8-14	6-9-15	7-11-16	8-12-17	9-13-18	11-14-20	12-15-22	13-16-23
Vertical Throw	V	8	9	10	11	12	13	13	14	16	17	

### Vertical Throw Factors

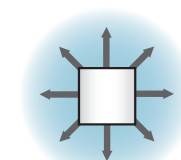
Ceiling Module	Listed Size	Cooling ΔT		Heating ΔT	
		-10 °F	0 °F	20 °F	40 °F
12"x12" /300 x 300	4	1.6	1.3	1.0	0.7
	5	1.6	1.3	1.0	0.7
	6	1.6	1.3	1.0	0.7
	7	1.6	1.3	1.0	0.7
20"x20" /500 x 500	6	1.7	1.3	1.0	0.7
	8	1.7	1.3	1.0	0.7
	10	1.7	1.3	1.0	0.6
24"x24" /600 x 600	6	1.7	1.3	1.0	0.7
	8	1.7	1.3	1.0	0.7
	10	1.7	1.4	1.0	0.6
	12	1.8	1.4	1.0	0.6
	15	2.1	1.5	1.0	0.5

The table lists throw factors to be applied to the vertical projections listed in the performance tables for temperature differentials other than 20 °F heating differential.

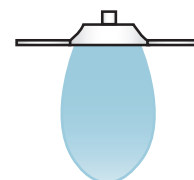
### Performance Notes:

- Tested in accordance with ASHRAE Standard 70 - 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Airflow is in cubic feet per minute [cfm].
- NC, sound pressure levels, are based on a room absorption of 10 dB re 10<sup>-12</sup> Watts, and a single diffuser/grille.
- Blanks "-" indicate an NC level below 15.
- All pressures are in inches of water column [in. w.g.].
- Pressures not listed can be calculated using the following formula:  $P_{total} = P_{static} + P_{velocity}$
- Horizontal throw data is based on supply air and room air being at isothermal conditions.
- Vertical throws are based on 20°F heating differential and 50 fpm terminal velocity.
- Throw data is given in feet [ft] to terminal velocities of:  
150 fpm (minimum)  
100 fpm (middle)  
50 fpm (maximum).
- Diffuser tested with a ceiling. If the diffuser is mounted on an exposed duct, multiply the throw in the performance table by 0.70.
- Does not include effects of ceiling radiation damper (SCDA-FR)

### Throw Diagram



Plan View - Horizontal Radial Pattern



Elevation View - Vertical Pattern



**IV. Financial & Budget Update:**  
**Monthly Construction Pay Request:**

S. M. Wilson & Co. has submitted the 10th pay application for the month of January for Owner and Design Team review. See attached. Per the contract we will submit monthly pay applications on the 5<sup>th</sup> day of each month and project cost through the end of the month.

# APPLICATION AND CERTIFICATE FOR PAYMENT

Invoice #: 0122010-10

To HALLSVILLE R-IV SCHOOL DISTRICT Project 0122010.00 Hallsville 2022 Bond Issue  
 Owner:

Application No.: 10

Distribution to:

Owner

Architect

Contractor

Period To:

From Contract: S. M. Wilson & Co.  
 2185 Hampton Ave.  
 St. Louis MO 63139

Via Architect: KLINGNER & ASSOCIATES, P.C.  
 616 North 24th Street  
 Quincy IL 62301

Project Nos:

Contract For:

Contract 5/25/2022

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet is attached.

1. Original Contract Sum .....	\$10,578,803.00
2. Net Change By Change Order .....	\$0.00
3. Contract Sum To Date .....	\$10,578,803.00
4. Total Completed and Stored To Date .....	\$7,138,144.91
5. Retainage:	
a. 4.99% of Completed Work .....	\$346,146.21
b. 5.00% of Stored Material .....	\$10,259.92
Total Retainage .....	\$356,406.13
6. Total Earned Less Retainage .....	\$6,781,738.78
7. Less Previous Certificates For Payments .....	\$6,496,185.25
8. Current Payment Due .....	\$285,553.53
9. Balance To Finish, Plus Retainage .....	\$3,797,064.22

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Change Orders approved previously	0.00	0.00
	0.00	0.00
<b>CURRENT TOTAL</b>	<b>\$0.00</b>	<b>\$0.00</b>
Net Change by Change Orders		\$0.00

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information, and belief, the work covered by this Application for Payment has been completed in accordance with the Contract Documents. That all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: S. M. Wilson & Co.

By: *[Signature]*

Date: 2/5/2024

State of: Missouri

Subscribed and sworn to before me this

Notary Public: *Cherry L. Hutchinson*

My Commission expires: 03/24/2026

County of: ST. LOUIS  
 5<sup>th</sup> day of February, 2024



## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information, and belief, the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$285,553.53

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

## ARCHITECT:

By: Matthew H Bridges

Digitally signed by Matthew H Bridges  
 Date: 2024.02.21 09:47:12 -0600

Date: 02/21/2024

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment, and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

Application and Certification for Payment, containing Contractor's signed certification is attached.  
 In tabulations below, amounts are stated to the nearest dollar.  
 Use Column I on Contracts where variable retainage for line items may apply.

Application No. : 10  
 Application Date : 01/31/24  
 To:  
 Architect's Project No.:

Invoice # : 0122010-10

Contract : 0122010.00 Hallsville 2022 Bond Issue

A Item No.	B Description of Work	C Scheduled Value	D E Work Completed		F Materials Presently Stored  (Not in D or E)	G Total Completed and Stored to Date  (D+E+F)	H % (G / C)	I Balance to Finish (C-G)	Retainage
			From Previous Application (D+E)	This Period in Place					
<b>00</b>	<b>Insurance &amp; Bonds</b>								
006110	Performance & Payment Bond	104,632.00	104,632.00	0.00	0.00	104,632.00	100.00%	0.00	5,231.60
007310	General Liability Insurance	103,596.00	103,596.00	0.00	0.00	103,596.00	100.00%	0.00	5,179.80
007325	Subcontractor Default Insurance (SDI)	113,079.00	113,079.00	0.00	0.00	113,079.00	100.00%	0.00	5,653.95
	<i>Insurance &amp; Bonds Total:</i>	<b>321,307.00</b>	<b>321,307.00</b>	<b>0.00</b>	<b>0.00</b>	<b>321,307.00</b>	<b>100.00%</b>	<b>0.00</b>	<b>16,065.35</b>
<b>00.01</b>	<b>Construction Contingency</b>								
008010	Contractor Contingency	222,020.00	0.00	0.00	0.00	0.00	0.00%	222,020.00	0.00
	<i>Construction Contingency Total:</i>	<b>222,020.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>222,020.00</b>	<b>0.00</b>
<b>00.02</b>	<b>Owner Contingency</b>								
008020	Owner Contingency	24,570.57	0.00	0.00	0.00	0.00	0.00%	24,570.57	0.00
	<i>Owner Contingency Total:</i>	<b>24,570.57</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>24,570.57</b>	<b>0.00</b>
<b>00.03</b>	<b>Material Escalation Contingency</b>								
008030	Material Escalation Contingency	18,082.00	0.00	0.00	0.00	0.00	0.00%	18,082.00	0.00
	<i>Material Escalation Contingency Total:</i>	<b>18,082.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>18,082.00</b>	<b>0.00</b>
<b>01</b>	<b>General Conditions</b>								
010000	General Conditions	549,487.00	316,496.83	39,860.00	0.00	356,356.83	64.85%	193,130.17	17,817.85
011240	Preconstruction Services	30,000.00	30,000.00	0.00	0.00	30,000.00	100.00%	0.00	1,500.00
	<i>General Conditions Total:</i>	<b>579,487.00</b>	<b>346,496.83</b>	<b>39,860.00</b>	<b>0.00</b>	<b>386,356.83</b>	<b>66.67%</b>	<b>193,130.17</b>	<b>19,317.85</b>
<b>01.01</b>	<b>General Requirements</b>								
011000	General Requirements	198,158.00	60,540.67	2,310.04	0.00	62,850.71	31.72%	135,307.29	3,142.57
011510	Building Permit Fee	27,703.00	16,213.29	0.00	0.00	16,213.29	58.53%	11,489.71	810.67
	<i>General Requirements Total:</i>	<b>225,861.00</b>	<b>76,753.96</b>	<b>2,310.04</b>	<b>0.00</b>	<b>79,064.00</b>	<b>35.01%</b>	<b>146,797.00</b>	<b>3,953.24</b>
<b>01.02</b>	<b>Allowances</b>								
040000	Hot & Cold Weather Allowance	43,864.00	0.00	0.00	0.00	0.00	0.00%	43,864.00	0.00
096000	Concrete Moisture Mitigation Allowance	53,424.00	0.00	0.00	0.00	0.00	0.00%	53,424.00	0.00

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			Work Completed						
			From Previous Application (D+E)	This Period in Place					
	<i>Allowances Total:</i>	<b>97,288.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>97,288.00</b>	<b>0.00</b>
<b>01.03</b>	<b>Final Cleaning</b>								
017055	Final Cleaning	10,900.00	0.00	0.00	0.00	0.00	0.00%	10,900.00	0.00
	<i>Final Cleaning Total:</i>	<b>10,900.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>10,900.00</b>	<b>0.00</b>
<b>02</b>	<b>Survey &amp; Layout</b>								
022100	Surveys	22,020.00	12,434.65	0.00	0.00	12,434.65	56.47%	9,585.35	621.74
023200	Geotechnical Investigations	12,980.00	12,980.00	0.00	0.00	12,980.00	100.00%	0.00	649.00
	<i>Survey &amp; Layout Total:</i>	<b>35,000.00</b>	<b>25,414.65</b>	<b>0.00</b>	<b>0.00</b>	<b>25,414.65</b>	<b>72.61%</b>	<b>9,585.35</b>	<b>1,270.74</b>
<b>03</b>	<b>Concrete</b>								
030000	Concrete	1,322,254.11	913,541.14	0.00	0.00	913,541.14	69.09%	408,712.97	45,677.06
034100	Precast Structural Concrete	477,182.00	477,182.00	0.00	0.00	477,182.00	100.00%	0.00	23,859.10
	<i>Concrete Total:</i>	<b>1,799,436.11</b>	<b>1,390,723.14</b>	<b>0.00</b>	<b>0.00</b>	<b>1,390,723.14</b>	<b>77.29%</b>	<b>408,712.97</b>	<b>69,536.16</b>
<b>04</b>	<b>Masonry</b>								
042000	Unit Masonry	600,940.00	461,145.80	0.00	0.00	461,145.80	76.74%	139,794.20	23,057.29
	<i>Masonry Total:</i>	<b>600,940.00</b>	<b>461,145.80</b>	<b>0.00</b>	<b>0.00</b>	<b>461,145.80</b>	<b>76.74%</b>	<b>139,794.20</b>	<b>23,057.29</b>
<b>05</b>	<b>Structural Steel</b>								
050000	Structural Steel Fabrication	231,782.00	70,845.00	104,178.00	0.00	175,023.00	75.51%	56,759.00	8,751.15
	<i>Structural Steel Total:</i>	<b>231,782.00</b>	<b>70,845.00</b>	<b>104,178.00</b>	<b>0.00</b>	<b>175,023.00</b>	<b>75.51%</b>	<b>56,759.00</b>	<b>8,751.15</b>
<b>07</b>	<b>Thermal &amp; Moisture Protection</b>								
075300	EPDM Roofing	330,392.00	0.00	0.00	0.00	0.00	0.00%	330,392.00	0.00
079200	Joint Sealants	5,800.00	0.00	0.00	0.00	0.00	0.00%	5,800.00	0.00
	<i>Thermal &amp; Moisture Protection Total:</i>	<b>336,192.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>336,192.00</b>	<b>0.00</b>
<b>08</b>	<b>Openings</b>								
085653	Security Windows	141,250.00	108,521.62	0.00	0.00	108,521.62	76.83%	32,728.38	5,426.09
	<i>Openings Total:</i>	<b>141,250.00</b>	<b>108,521.62</b>	<b>0.00</b>	<b>0.00</b>	<b>108,521.62</b>	<b>76.83%</b>	<b>32,728.38</b>	<b>5,426.09</b>

# CONTINUATION SHEET

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 Application Date : 01/31/24  
 To:  
 Architect's Project No.:

Invoice # : 0122010-10      Contract : 0122010.00 Hallsville 2022 Bond Issue

A Item No.	B Description of Work	C Scheduled Value	D      E		F Materials Presently Stored  (Not in D or E)	G Total Completed and Stored to Date  (D+E+F)	H % (G / C)	I Balance to Finish (C-G)	J Retainage
			Work Completed						
			From Previous Application (D+E)	This Period in Place					
<b>09</b>	<b>Finishes</b>								
092900	Gypsum Board	147,843.00	0.00	0.00	0.00	0.00	0.00%	147,843.00	0.00
096500	Resilient Flooring	106,318.00	0.00	0.00	0.00	0.00	0.00%	106,318.00	0.00
099100	Painting	39,440.00	0.00	0.00	0.00	0.00	0.00%	39,440.00	0.00
	<i>Finishes Total:</i>	<b>293,601.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>293,601.00</b>	<b>0.00</b>
<b>21</b>	<b>Fire Protection</b>								
210000	Fire Suppression	110,550.00	3,200.00	0.00	0.00	3,200.00	2.89%	107,350.00	160.00
	<i>Fire Protection Total:</i>	<b>110,550.00</b>	<b>3,200.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3,200.00</b>	<b>2.89%</b>	<b>107,350.00</b>	<b>160.00</b>
<b>22</b>	<b>Plumbing</b>								
220000	Plumbing	183,633.30	80,000.00	0.00	0.00	80,000.00	43.57%	103,633.30	4,000.00
	<i>Plumbing Total:</i>	<b>183,633.30</b>	<b>80,000.00</b>	<b>0.00</b>	<b>0.00</b>	<b>80,000.00</b>	<b>43.57%</b>	<b>103,633.30</b>	<b>4,000.00</b>
<b>23</b>	<b>HVAC</b>								
017550	Building Commissioning	49,400.00	0.00	0.00	0.00	0.00	0.00%	49,400.00	0.00
230000	Heating, Ventilating, and Air Conditioning (HVAC)	802,583.00	91,546.20	133,683.06	139,192.78	364,422.04	45.41%	438,160.96	18,221.10
	<i>HVAC Total:</i>	<b>851,983.00</b>	<b>91,546.20</b>	<b>133,683.06</b>	<b>139,192.78</b>	<b>364,422.04</b>	<b>42.77%</b>	<b>487,560.96</b>	<b>18,221.10</b>
<b>26</b>	<b>Electrical</b>								
260000	Electrical	931,785.79	433,723.93	0.00	66,005.50	499,729.43	53.63%	432,056.36	24,986.49
	<i>Electrical Total:</i>	<b>931,785.79</b>	<b>433,723.93</b>	<b>0.00</b>	<b>66,005.50</b>	<b>499,729.43</b>	<b>53.63%</b>	<b>432,056.36</b>	<b>24,986.49</b>
<b>31</b>	<b>Earthwork</b>								
310000	Earthwork	1,041,907.23	950,950.57	0.00	0.00	950,950.57	91.27%	90,956.66	47,547.53
	<i>Earthwork Total:</i>	<b>1,041,907.23</b>	<b>950,950.57</b>	<b>0.00</b>	<b>0.00</b>	<b>950,950.57</b>	<b>91.27%</b>	<b>90,956.66</b>	<b>47,547.53</b>
<b>32</b>	<b>Exterior Improvements</b>								
321216	Asphalt Paving	92,105.00	45,214.00	0.00	0.00	45,214.00	49.09%	46,891.00	2,260.70
321823	Athletic Surfacing	1,883,850.00	1,873,850.00	10,000.00	0.00	1,883,850.00	100.00%	0.00	94,192.50
323100	Fences and Gates	169,711.00	118,080.00	0.00	0.00	118,080.00	69.58%	51,631.00	5,904.00
329000	Landscaping	20,467.00	0.00	0.00	0.00	0.00	0.00%	20,467.00	0.00

# CONTINUATION SHEET

Application and Certification for Payment, containing Contractor's signed certification is attached.  
 In tabulations below, amounts are stated to the nearest dollar.  
 Use Column I on Contracts where variable retainage for line items may apply.

Application No. : 10  
 Application Date : 01/31/24  
 To:  
 Architect's Project No.:

Invoice # : 0122010-10

Contract : 0122010.00 Hallsville 2022 Bond Issue

A Item No.	B Description of Work	C Scheduled Value	D		E	F Materials Presently Stored  (Not in D or E)	G Total Completed and Stored to Date  (D+E+F)	H % (G / C)	I Balance to Finish (C-G)	Retainage
			Work Completed							
			From Previous Application (D+E)	This Period in Place						
	<i>Exterior Improvements Total:</i>	2,166,133.00	2,037,144.00	10,000.00	0.00	2,047,144.00	94.51%	118,989.00	102,357.20	
FEE	FEE	355,094.00	235,118.84	10,023.99	0.00	245,142.83	69.04%	109,951.17	11,755.94	
FEE	FEE	355,094.00	235,118.84	10,023.99	0.00	245,142.83	69.04%	109,951.17	11,755.94	
	<i>FEE Total:</i>	355,094.00	235,118.84	10,023.99	0.00	245,142.83	69.04%	109,951.17	11,755.94	
<b>Grand Totals</b>		10,578,803.00	6,632,891.54	300,055.09	205,198.28	7,138,144.91	67.48%	3,440,658.09	356,406.13	

**PARTIAL  
WAIVER OF LIEN**

STATE OF:           MISSOURI

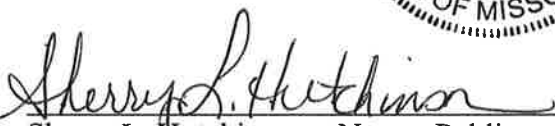
COUNTY OF:        ST. LOUIS

The undersigned has been employed by **Hallsville R-IV School District** to furnish labor and material for the project known as **Hallsville School District Building Addition and Athletic Complex Upgrade, 421 MO-124 E, Hallsville, MO 65255** in the County of Boone, State of Missouri. Now therefore, know ye, that We the undersigned for and in consideration of the sum of **TWO HUNDRED EIGHTY FIVE THOUSAND FIVE HUNDRED FIFTY THREE DOLLARS AND 53/100 (\$285,553.53)** and other good and valuable considerations, considered due and payable, do hereby waive and release any and all lien, or claim or right of lien on said above-described building and premises under the Statutes of the State of Missouri relating to Mechanics' Liens on account of labor of materials, or both, furnished by the undersigned to aforesaid purchaser for said building and premises. This waiver is considered valid only to the extent of payments received.

Given under my hand and seal this 5th day of February, 2024.

**S. M. Wilson & Co.**

  
\_\_\_\_\_  
Kelly A. Santacruz - Sr. Project Accountant

  
\_\_\_\_\_  
Sherry L. Hutchinson – Notary Public



Hallsville Middle School Addition and Track & Field  
Contingency & Contract Allowance Tracking

	Owner Contingency	Construction Contingency	Material Escalation Contingency	Concrete Moisture Mitigation Allowance	Hot & Cold Weather Allowance	Notes
Schedule of Values	210,605.00	285,445.00	158,055.00	53,424.00	43,864.00	
		(63,425.00)	(139,973.00)			SMW Estimating Data Entry Error for Earthwork & Site Utilites Basebid presented in GMP amendment #02 summary. Use of Contingency to offset this error. Material escalation from BP#02 used 100% and balance taken from construction contingency.
April 2023 Pay App	22,100.00					COR#01 - Turf Voluntary Deduct
April 2023 Pay App	(80,140.38)					COR#02 - Track & Field Fiber Routing
May 2023 Pay App	(30,900.96)					COR#03 - Ameren Relocation Costs
May 2023 Pay App	25,000.00					COR#04 - Roofing Sheet Metal VE
June 2023 Pay App	(7,955.55)					COR#05 - MS ASI#01 Transformer Area
June 2023 Pay App	(20,083.90)					COR#06 - T&F ASI#01 Field Receptacles
August 2023	(13,036.03)					COR#07 - T&F Water Line
August 2023	24,700.00					COR#08 - Field Drainage VE
August 2023	24,450.00					COR#09 - Field Concrete VE
August 2023	(51,631.00)					COR#10- Barrier Fence at Track
September 2023	(7,203.31)					COR#11 - RFI#009 & RFI#011 MS Sanitary
	(71,333.00)					COR#12 - Sidewalk at Grandstand
Means to Process						Estimate of \$1,900 for Pending COR#13 - ASI#02 Central Office Electrical
						Estimate of \$12,000 for Pending COR#14- ASI #06 MS Added Transfer Duct
						Estimate of \$2,000 for Pending COR#15 - RFI 031 Diffuser & Duct Sizes
					(1,202.00)	\$1,202 for AAA Masonry Temp on 10/30 & 11/1

Total Remaining	24,570.87	222,020.00	18,082.00	53,424.00	42,662.00
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# JC Detail

**Job: 0122010.00 - Hallsville New Middle School Addition & Track & Field Improv**      **All Phases**      **Cost Type: 3 -**  
**Subcontractor**      **Units: Actual**  
**Months: 01/24 - 01/24**      **All Dates**      **All JC Transaction Types**      **All Departments**

Mth	Trans#	Posted Date	Actual Date	Trans Type	Source	Description	Units	Hours	Cost
<b>0122010.00 Hallsville New Middle School Addition &amp; Track &amp; Field Improv</b>									
<b>050000- - Structural Steel Fabrication 3 Sub</b>									
01/24	12220	02/05/24	01/31/24	AP	AP Entry	15806 DELONG'S INC 0122010.003 / TR# 1053 / 1 / APCo: 1 / SL#-Item 0122010.00006-1 Structural Steel Fabrication	0.000	0.00	104,178.00
<b>Total for Cost Type: 3</b>							<b>0.000</b>	<b>0.00</b>	<b>104,178.00</b>
<b>Total For Phase: 050000- -</b>							<b>0.000</b>	<b>0.00</b>	<b>104,178.00</b>
<b>230000- - Heating, Ventilating, and Air Conditioning (HVAC) 3 Sub</b>									
01/24	12221	02/05/24	01/31/24	AP	AP Entry	16252 TEEL MECHANICAL SERV 0122010.005 / TR# 1054 / 1 / APCo: 1 / SL#-Item 0122010.00003-1 Heating, Ventilating, and Air	0.000	0.00	133,175.29
<b>Total for Cost Type: 3</b>							<b>0.000</b>	<b>0.00</b>	<b>133,175.29</b>
<b>Total For Phase: 230000- -</b>							<b>0.000</b>	<b>0.00</b>	<b>133,175.29</b>
<b>321823- - Athletic Surfacing 3 Sub</b>									
01/24	12222	02/05/24	01/31/24	AP	AP Entry	2105 BYRNE & JONES CONSTR 0122010.006 / TR# 1055 / 1 / APCo: 1 / SL#-Item 0122010.00016-1 Athletic Surfacing	0.000	0.00	10,000.00
<b>Total for Cost Type: 3</b>							<b>0.000</b>	<b>0.00</b>	<b>10,000.00</b>
<b>Total For Phase: 321823- -</b>							<b>0.000</b>	<b>0.00</b>	<b>10,000.00</b>
<b>Total For Job: 0122010.00</b>							<b>0.000</b>	<b>0.00</b>	<b>247,353.29</b>
<b>Total For Company:1</b>							<b>0.000</b>	<b>0.00</b>	<b>247,353.29</b>

# APPLICATION FOR PAYMENT

To: S. M. Wilson & Co.  
2185 Hampton Ave  
Saint Louis, MO 63139

Project: Hallsville New Middle School Addition & Track  
& Field Improv

Application No.: 3  
Period To: 01/31/24  
Application Date: 01/18/24  
Project No.: 0122010.00  
Contract Date: 12/04/23  
Commitment: 0122010.00006

From: DeLong's Inc  
PO Box 479  
Jefferson City, MO 65102

Contract For: 0122010.00006 - Steel - DeLong's, Inc.

1. ORIGINAL CONTRACT AMOUNT	\$225,182.00
2. NET CHANGE BY CHANGE ORDERS	\$0.00
3. CONTRACT SUM TO DATE	\$225,182.00
4. TOTAL COMPLETED AND STORED TO DATE	\$175,023.00
(Column G)	
5. RETAINAGE	
5.00% of Completed Work	\$8,751.15
(Columns D + E)	
5.00% of Stored Materials	-
(Columns F)	
Total Retainage	\$8,751.15
(Line 5a + Line 5b OR Sum of Column I)	
6. TOTAL EARNED LESS RETAINAGE	\$166,271.85
(Line 4 less Line 5 Total)	
7. LESS PRIOR CERTIFICATES FOR PAYMENT	\$67,302.75
(Line 6 from prior Certificate)	
8. CURRENT PAYMENT DUE	\$98,969.10
9. BALANCE TO FINISH, INCLUDING RETAINAGE	\$58,910.15
(Line 3 less Line 6)	

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months	\$0.00	\$0.00
Total approved this month	\$0.00	\$0.00
<b>TOTALS</b>	<b>\$0.00</b>	<b>\$0.00</b>
NET CHANGES by Change Orders		\$0.00

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

### CONTRACTOR:

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

State Of: \_\_\_\_\_

County Of: \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_

Notary Public: \_\_\_\_\_

My commission expires: \_\_\_\_\_

### ARCHITECTS CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on the on-site observations and the data compromising this application, the Architect certifies to the owner that to the best of the Architects knowledge, information and belief the Work under the Architect's Contract has progressed as indicated, the quality of Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$98,969.10

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on the Application for Payment and on the Continuation sheet that are changes to conform to the amount certified.)

### ARCHITECT:

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

The Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

APPLICATION AND CERTIFICATION FOR PAYMENT,  
 containing Contractor's signed Certification is attached.  
 In tabulations below, amounts are stated to the nearest dollar.

APPLICATION NO.: 3  
 APPLICATION DATE: 3  
 PERIOD TO: 01/31/24  
 PROJECT NO.: 0122010.00

DeLong's Inc

A	B	C	D	E	F	G		H	I
ITEM NUM	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE	% (G ÷ C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D+E)	THIS PERIOD					
1	DeLong's Middle School	\$132,023.00	\$52,845.00	\$79,178.00	-	\$132,023.00	100.00%	-	\$6,601.15
2	DeLong's Track & Field	\$5,159.00	-	-	-	-	-	\$5,159.00	-
3	A&H Steel Erection	\$88,000.00	\$18,000.00	\$25,000.00	-	\$43,000.00	48.86%	\$45,000.00	\$2,150.00
<b>PAYMENT TOTALS</b>		<b>\$225,182.00</b>	<b>\$70,845.00</b>	<b>\$104,178.00</b>	-	<b>\$175,023.00</b>	<b>77.72%</b>	<b>\$50,159.00</b>	<b>\$8,751.15</b>

## Audit Trail

Project: Hallsville New Middle School Addition & Track & Field Improv (0122010.00)

From: DeLong's Inc

Date	User	Company	Event
02/05/24 18:08 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson sent Lien Waiver '2nd Tier Lien Waiver Supplier Partial.pdf' for Application For Payment #3 for DeLong's Inc (A & H Steel)
02/05/24 18:08 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson sent Lien Waiver '2nd Tier Lien Waiver Supplier Partial.pdf' for Application For Payment #3 for DeLong's Inc (DeLong's, Inc.)
02/05/24 18:08 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson approved Application For Payment #3 for DeLong's Inc
02/05/24 16:32 GMT	Anna Eisenbath	S. M. Wilson & Co.	Anna Eisenbath approved Application For Payment #3 for DeLong's Inc
01/26/24 17:37 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson approved Lien Waiver 'GC Pay partial dated conditional lien waiver.pdf' for Application For Payment #3 for DeLong's Inc
01/24/24 19:51 GMT	Trevor Garriott	DeLong's Inc	Trevor Garriott submitted Application For Payment #3 for DeLong's Inc Comment: Deduct Angle \$1,459.00 from ASI #3
01/24/24 19:48 GMT	Trevor Garriott	DeLong's Inc	Trevor Garriott uploaded Lien Waiver 'GC Pay partial dated conditional lien waiver.pdf' for Application For Payment #3 for DeLong's Inc
01/23/24 15:35 GMT	Trevor Garriott	DeLong's Inc	Marked off checklist item 'All of the lower tier subcontractors & suppliers with the required information have been submitted accurately in the Liabilities section.' on Application For Payment #3 for DeLong's Inc
01/23/24 15:35 GMT	Trevor Garriott	DeLong's Inc	Trevor Garriott certified information on the liabilities tab.
01/19/24 19:33 GMT	Trevor Garriott	DeLong's Inc	Marked off checklist item 'All required documents for stored materials (if applicable) billed in this period's pay application have been uploaded.' on Application For Payment #3 for DeLong's Inc
01/18/24 03:47 GMT	Trevor Garriott	DeLong's Inc	Trevor Garriott certified information on the liabilities tab.
01/18/24 03:42 GMT	Trevor Garriott	DeLong's Inc	Trevor Garriott created Application For Payment #3 for DeLong's Inc

# APPLICATION FOR PAYMENT

To: S. M. Wilson & Co.  
2185 Hampton Ave  
Saint Louis, MO 63139

From: Byrne & Jones  
13940 ST. CHARLES ROCK ROAD  
SAINT LOUIS, MO 63044

Contract For: 0122010.00016 - Athletic Surfaces - Byrne & Jones Construction

Project: Hallsville New Middle School Addition & Track & Field Improv

Application No.: 6  
Period To: 01/31/24  
Application Date: 01/31/24  
Project No.: 0122010.00  
Contract Date: 04/17/23  
Commitment: 0122010.00016

1. ORIGINAL CONTRACT AMOUNT	\$1,913,300.00
2. NET CHANGE BY CHANGE ORDERS	(\$29,450.00)
3. CONTRACT SUM TO DATE	\$1,883,850.00
4. TOTAL COMPLETED AND STORED TO DATE (Column G)	\$1,883,850.00
5. RETAINAGE	
5.00% of Completed Work	\$94,192.50
(Columns D + E)	
5.00% of Stored Materials	-
(Columns F)	
Total Retainage	\$94,192.50
(Line 5a + Line 5b OR Sum of Column I)	
6. TOTAL EARNED LESS RETAINAGE	\$1,789,657.50
(Line 4 less Line 5 Total)	
7. LESS PRIOR CERTIFICATES FOR PAYMENT	\$1,780,157.50
(Line 6 from prior Certificate)	
8. CURRENT PAYMENT DUE	\$9,500.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE	\$94,192.50
(Line 3 less Line 6)	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

### CONTRACTOR:

By: Jennifer Burton Date: 02/05/24

State Of: \_\_\_\_\_

County Of: \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_

Notary Public: \_\_\_\_\_

My commission expires: \_\_\_\_\_

### ARCHITECTS CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on the on-site observations and the data compromising this application, the Architect certifies to the owner that to the best of the Architects knowledge, information and belief the Work under the Architect's Contract has progressed as indicated, the quality of Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$9,500.00

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on the Application for Payment and on the Continuation sheet that are changes to conform to the amount certified.)

### ARCHITECT:

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

The Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months	\$41,800.00	\$71,250.00
Total approved this month	\$0.00	\$0.00
TOTALS	\$41,800.00	\$71,250.00
NET CHANGES by Change Orders		(\$29,450.00)

CONTINUATION SHEET

APPLICATION AND CERTIFICATION FOR PAYMENT,  
 containing Contractor's signed Certification is attached.  
 In tabulations below, amounts are stated to the nearest dollar.

APPLICATION NO.: 6

APPLICATION DATE: 6

PERIOD TO: 01/31/24

PROJECT NO.: 0122010.00

Byrne & Jones

A	B	C	D	E	F	G		H	I
ITEM NUM	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE	% (G ÷ C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D+E)	THIS PERIOD					
1	Preconstruction/General Conditions	\$135,000.00	\$135,000.00	-	-	\$135,000.00	100.00%	-	\$6,750.00
2	Relocate Scoreboard/Playclocks	\$40,000.00	\$40,000.00	-	-	\$40,000.00	100.00%	-	\$2,000.00
3	Field Collection Pipe	\$110,000.00	\$110,000.00	-	-	\$110,000.00	100.00%	-	\$5,500.00
4	Sports Concrete	\$323,000.00	\$323,000.00	-	-	\$323,000.00	100.00%	-	\$16,150.00
5	Nailer	\$10,000.00	\$10,000.00	-	-	\$10,000.00	100.00%	-	\$500.00
6	Athletic Equipment	\$75,000.00	\$75,000.00	-	-	\$75,000.00	100.00%	-	\$3,750.00
7	Field Rock	\$210,000.00	\$210,000.00	-	-	\$210,000.00	100.00%	-	\$10,500.00
8	Track Rock	\$75,000.00	\$75,000.00	-	-	\$75,000.00	100.00%	-	\$3,750.00
9	Track Pave	\$130,000.00	\$130,000.00	-	-	\$130,000.00	100.00%	-	\$6,500.00
10	Synthetic Turf & Pad	\$625,300.00	\$625,300.00	-	-	\$625,300.00	100.00%	-	\$31,265.00
11	Track Surfacing	\$180,000.00	\$170,000.00	\$10,000.00	-	\$180,000.00	100.00%	-	\$9,000.00
2	Athletic Surfacing (CO #1)	(\$22,100.00)	(\$22,100.00)	-	-	(\$22,100.00)	100.00%	-	(\$1,105.00)
3	Athletic Surfacing (CO #2)	\$1,800.00	\$1,800.00	-	-	\$1,800.00	100.00%	-	\$90.00
5	Athletic Surfacing (CO #3)	(\$24,450.00)	(\$24,450.00)	-	-	(\$24,450.00)	100.00%	-	(\$1,222.50)
4	Athletic Surfacing (CO #3)	(\$24,700.00)	(\$24,700.00)	-	-	(\$24,700.00)	100.00%	-	(\$1,235.00)
6	Athletic Surfacing (CO #4)	\$40,000.00	\$40,000.00	-	-	\$40,000.00	100.00%	-	\$2,000.00
<b>PAYMENT TOTALS</b>		<b>\$1,883,850.00</b>	<b>\$1,873,850.00</b>	<b>\$10,000.00</b>	-	<b>\$1,883,850.00</b>	<b>100.00%</b>	-	<b>\$94,192.50</b>

## Audit Trail

Project: Hallsville New Middle School Addition & Track & Field Improv (0122010.00)

From: Byrne & Jones

Date	User	Company	Event
02/05/24 18:09 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson sent Lien Waiver '2nd Tier Lien Waiver Supplier Partial.pdf' for Application For Payment #6 for Byrne & Jones (Hawkins Construction and Flatwork LLC)
02/05/24 18:09 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson sent Lien Waiver '2nd Tier Lien Waiver Supplier Partial.pdf' for Application For Payment #6 for Byrne & Jones (Capital Quarries)
02/05/24 18:09 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson approved Application For Payment #6 for Byrne & Jones
02/05/24 17:32 GMT	Anna Eisenbath	S. M. Wilson & Co.	Anna Eisenbath approved Application For Payment #6 for Byrne & Jones
02/05/24 17:30 GMT	Katie Clever	Byrne & Jones	Katie Clever submitted Application For Payment #6 for Byrne & Jones
02/05/24 17:30 GMT	Katie Clever	Byrne & Jones	Katie Clever uploaded Lien Waiver 'GC Pay partial dated conditional lien waiver.pdf' for Application For Payment #6 for Byrne & Jones
02/05/24 15:13 GMT	Katie Clever	Byrne & Jones	Marked off checklist item 'All required documents for stored materials (if applicable) billed in this period's pay application have been uploaded.' on Application For Payment #6 for Byrne & Jones
02/05/24 15:13 GMT	Katie Clever	Byrne & Jones	Marked off checklist item 'All of the lower tier subcontractors & suppliers with the required information have been submitted accurately in the Liabilities section.' on Application For Payment #6 for Byrne & Jones
02/05/24 15:12 GMT	Katie Clever	Byrne & Jones	Katie Clever certified information on the liabilities tab.
01/31/24 15:32 GMT	Katie Clever	Byrne & Jones	Katie Clever created Application For Payment #6 for Byrne & Jones

# APPLICATION FOR PAYMENT

To: S. M. Wilson & Co.  
2185 Hampton Ave  
Saint Louis, MO 63139

From: Teel Mechanical Service, Inc.  
PO Box 6308  
PO Box 6308  
Fulton, MO 65251

Contract For: 0122010.00003 - HVAC - Teel Mechanical Service

Project: Hallsville New Middle School Addition & Track & Field Improv

Application No.: 5  
Period To: 01/31/24  
Application Date: 01/25/24  
Project No.: 0122010.00  
Contract Date: 12/04/23  
Commitment: 0122010.00003

1. ORIGINAL CONTRACT AMOUNT	\$638,713.00
2. NET CHANGE BY CHANGE ORDERS	\$0.00
3. CONTRACT SUM TO DATE	\$638,713.00
4. TOTAL COMPLETED AND STORED TO DATE (Column G)	\$363,914.27
5. RETAINAGE	
5.00% of Completed Work (Columns D + E)	\$13,500.25
5.00% of Stored Materials (Columns F)	\$4,695.48
Total Retainage (Line 5a + Line 5b OR Sum of Column I)	\$18,195.73
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5 Total)	\$345,718.54
7. LESS PRIOR CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$219,202.03
8. CURRENT PAYMENT DUE	\$126,516.51
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$292,994.46

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

### CONTRACTOR:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
State Of: \_\_\_\_\_  
County Of: \_\_\_\_\_  
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_  
Notary Public: \_\_\_\_\_  
My commission expires: \_\_\_\_\_

### ARCHITECTS CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on the on-site observations and the data comprising this application, the Architect certifies to the owner that to the best of the Architects knowledge, information and belief the Work under the Architect's Contract has progressed as indicated, the quality of Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$126,516.51

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on the Application for Payment and on the Continuation sheet that are changes to conform to the amount certified.)

### ARCHITECT:

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

The Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months	\$0.00	\$0.00
Total approved this month	\$0.00	\$0.00
<b>TOTALS</b>	<b>\$0.00</b>	<b>\$0.00</b>
NET CHANGES by Change Orders		\$0.00

CONTINUATION SHEET

APPLICATION AND CERTIFICATION FOR PAYMENT,  
 containing Contractor's signed Certification is attached.  
 In tabulations below, amounts are stated to the nearest dollar.

APPLICATION NO.: 5

APPLICATION DATE: 5

PERIOD TO: 01/31/24

PROJECT NO.: 0122010.00

Teel Mechanical Service, Inc.

A	B	C	D	E	F	G	H	I	
ITEM NUM	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE	% (G ÷ C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D+E)	THIS PERIOD					
1	CARRIER/AAON EQUIPMENT	\$201,498.40	\$107,588.85	-	\$93,909.55	\$201,498.40	53.39%	-	\$10,074.92
2	BOILER/PUMPS/HOSE KITS/SPEC.	\$82,276.75	\$58,620.38	-	-	\$58,620.38	71.25%	\$23,656.37	\$2,931.02
3	AIR DEVICES/FANS	\$40,399.50	\$40,399.50	-	-	\$40,399.50	100.00%	-	\$2,019.98
4	INSULATION	\$47,911.50	-	-	-	-	-	\$47,911.50	-
5	HYDRONIC PIPING	\$54,061.43	\$23,830.25	\$5,940.54	-	\$29,770.79	55.07%	\$24,290.64	\$1,488.54
6	SHEET METAL	\$15,619.00	-	\$4,685.70	-	\$4,685.70	30.00%	\$10,933.30	\$234.29
7	CRANE	\$4,725.00	-	-	-	-	-	\$4,725.00	-
8	AIR BALANCE	\$6,258.00	-	-	-	-	-	\$6,258.00	-
9	LABOR	\$185,963.42	\$300.00	\$28,639.50	-	\$28,939.50	15.56%	\$157,023.92	\$1,446.98
<b>PAYMENT TOTALS</b>		<b>\$638,713.00</b>	<b>\$230,738.98</b>	<b>\$39,265.74</b>	<b>\$93,909.55</b>	<b>\$363,914.27</b>	<b>56.98%</b>	<b>\$274,798.73</b>	<b>\$18,195.73</b>

## Audit Trail

Project: Hallsville New Middle School Addition & Track & Field Improv (0122010.00)

From: Teel Mechanical Service, Inc.

Date	User	Company	Event
01/26/24 17:37 GMT	Sherry Jackson	S. M. Wilson & Co.	Sherry Jackson approved Lien Waiver 'GC Pay partial dated conditional lien waiver.pdf' for Application For Payment #5 for Teel Mechanical Service, Inc.
01/25/24 20:32 GMT	Lea Anne Shetler	Teel Mechanical Service, Inc.	Lea Anne Shetler submitted Application For Payment #5 for Teel Mechanical Service, Inc. Comment: We've submitted 3 change order requests. If they have been approved, I've not received anything yet.
01/25/24 20:22 GMT	Lea Anne Shetler	Teel Mechanical Service, Inc.	Lea Anne Shetler uploaded Lien Waiver 'GC Pay partial dated conditional lien waiver.pdf' for Application For Payment #5 for Teel Mechanical Service, Inc.
01/25/24 19:35 GMT	Lea Anne Shetler	Teel Mechanical Service, Inc.	Marked off checklist item 'All required documents for stored materials (if applicable) billed in this period's pay application have been uploaded.' on Application For Payment #5 for Teel Mechanical Service, Inc.
01/25/24 19:35 GMT	Lea Anne Shetler	Teel Mechanical Service, Inc.	Marked off checklist item 'All of the lower tier subcontractors & suppliers with the required information have been submitted accurately in the Liabilities section.' on Application For Payment #5 for Teel Mechanical Service, Inc.
01/25/24 19:35 GMT	Lea Anne Shetler	Teel Mechanical Service, Inc.	Lea Anne Shetler certified information on the liabilities tab.
01/25/24 19:28 GMT	Lea Anne Shetler	Teel Mechanical Service, Inc.	Lea Anne Shetler created Application For Payment #5 for Teel Mechanical Service, Inc.





# ADDITIONAL REMARKS SCHEDULE

AGENCY FEDERATED MUTUAL INSURANCE COMPANY		NAMED INSURED TEEL MECHANICAL SERVICE, INC. PO BOX 6308 FULTON, MO 65251-8308
POLICY NUMBER SEE CERTIFICATE # 109.0		
CARRIER SEE CERTIFICATE # 109.0	NAIC CODE	EFFECTIVE DATE: SEE CERTIFICATE # 109.0

## ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 24 FORM TITLE: CERTIFICATE OF PROPERTY INSURANCE

SMW PROJECT #0122010.00  
 PROJECT: HALLSVILLE SCHOOL DISTRICT BUILDING ADDITION AND ATHLETIC COMPLEX UPGRADE - 431 E HIGHWAY 124, HALLSVILLE, MO 65251  
 INSTALLATION FLOATER COVERAGE IS PROVIDED WITH A LIMIT OF \$2,000,000 FOR PROPERTY THE NAMED INSURED IS CONTRACTED TO INSTALL THAT THEY OWN OR ARE LEGALLY LIABLE FOR. COVERAGE APPLIES WHILE IN TRANSIT, WHILE AT THE PREMISES OF INSTALLATION, OR ELSEWHERE AWAITING AND DURING INSTALLATION.  
 VALUE OF STORED MATERIALS IS \$100,000.  
 STORED MATERIALS ARE LOCATED AT 4388 COUNTY ROAD 203, FULTON, MO 65251-3716.





1900 West Lloyd Expressway  
Evansville, IN 47712

Distributors of Quality HVAC Equipment and Parts

# INVOICE

<b>INVOICE DATE</b>	<b>INVOICE NUMBER</b>
01/22/2024	3085747
<b>CUSTOMER NUMBER</b>	<b>CUSTOMER P.O. #</b>
71433	40905
<b>PLEASE REMIT PAYMENT TO:</b>	
<b>KOCH AIR</b> <b>PO BOX 636092</b> <b>CINCINNATI, OH 45263-6092</b>	

<b>TO VIEW AND PAY ONLINE GO TO:</b>	<a href="http://kochair.billtrust.com">http://kochair.billtrust.com</a>
<b>USE THIS ENROLLMENT TOKEN:</b>	DRS LRX QMF

**SOLD TO:**

Teel Mechanical Services 717  
Po Box 6308  
Fulton MO 65251-8308  
US

**SHIP TO:**

Teel Mechanical Services 717  
4388 County Road 203  
Fulton MO 65251-3716  
US

<b>DATE SHIPPED</b>	<b>SHIP VIA</b>	<b>SALES ORDER</b>	<b>ORDER DATE</b>	<b>WARRANTY CLAIM</b>	<b>JOB NAME</b>	<b>PAGE</b>
	Direct Ship	3949017	05/09/2023		Hallsville Middle School	1 of 1

LINE #	ITEM	DESCRIPTION	QTY ORDERED	QTY SHIPPED	B/O	UNIT PRICE	AMOUNT
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Carrier: Direct Ship

Tracking #: 904996604

1	CE30MP-900---010	BRONZE 6 STRAINER 40 MESH 6IN NPT	1	1	0		
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Past due Invoices are subject to a service charge of 1% per month.

**ST Louis**  
3141 Riverport Tech Center Drive  
Maryland Heights, MO 63043

Toll Free: (800) 333-7256  
Main Number: (314) 595-7600  
After Hours: (314) 578-5076

Corporate Phone: (866) 742-6930  
Corporate Fax: (812) 962-5309  
Customer Finance Dept. Email: [kaccredit@kochair.com](mailto:kaccredit@kochair.com)

<b>SUBTOTAL</b>	3,685.00
<b>AMOUNT DUE</b>	3,685.00
<b>INVOICE DUE BY</b>	03/22/2024



1900 West Lloyd Expressway  
Evansville, IN 47712

Distributors of Quality HVAC Equipment and Parts

# INVOICE

<b>INVOICE DATE</b>	<b>INVOICE NUMBER</b>
01/05/2024	3072661
<b>CUSTOMER NUMBER</b>	<b>CUSTOMER P.O. #</b>
71433	40905
<b>PLEASE REMIT PAYMENT TO:</b>	
<b>KOCH AIR</b> <b>PO BOX 636092</b> <b>CINCINNATI, OH 45263-6092</b>	

<b>TO VIEW AND PAY ONLINE GO TO:</b>	<a href="http://kochair.billtrust.com">http://kochair.billtrust.com</a>
<b>USE THIS ENROLLMENT TOKEN:</b>	DRS LRX QMF

**SOLD TO:**

Teel Mechanical Services 717  
Po Box 6308  
Fulton MO 65251-8308  
US

**SHIP TO:**

Teel Mechanical Services 717  
4388 County Road 203  
Fulton MO 65251-3716  
US

<b>DATE SHIPPED</b>	<b>SHIP VIA</b>	<b>SALES ORDER</b>	<b>ORDER DATE</b>	<b>WARRANTY CLAIM</b>	<b>JOB NAME</b>	<b>PAGE</b>
	Direct Ship	3949017	05/09/2023		Hallsville Middle School	1 of 1

LINE #	ITEM	DESCRIPTION	QTY ORDERED	QTY SHIPPED	B/O	UNIT PRICE	AMOUNT
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Carrier: Direct Ship

Tracking #: 904935560

1	09DPM08554-00104	REMOTE AIR-COOLED CONDENSER	1	1	0		
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Serial Number: 5023Q95857



Past due Invoices are subject to a service charge of 1% per month.

**ST Louis** Toll Free: (800) 333-7256 Corporate Phone: (866) 742-6930  
 3141 Riverport Tech Center Drive Main Number: (314) 595-7600 Corporate Fax: (812) 962-5309  
 Maryland Heights, MO 63043 After Hours: (314) 578-5076 Customer Finance Dept. Email: [kaccredit@kochair.com](mailto:kaccredit@kochair.com)

<b>SUBTOTAL</b>	31,117.00
<b>AMOUNT DUE</b>	31,117.00
<b>INVOICE DUE BY</b>	03/05/2024



1900 West Lloyd Expressway  
Evansville, IN 47712

Distributors of Quality HVAC Equipment and Parts

# INVOICE

INVOICE DATE	INVOICE NUMBER
01/05/2024	3072960
CUSTOMER NUMBER	CUSTOMER P.O. #
71433	40905
PLEASE REMIT PAYMENT TO:	
<p>KOCH AIR PO BOX 636092 CINCINNATI, OH 45263-6092</p>	

TO VIEW AND PAY ONLINE GO TO:	<a href="http://kochair.billtrust.com">http://kochair.billtrust.com</a>
USE THIS ENROLLMENT TOKEN:	DRS LRX QMF

**SOLD TO:**

Teel Mechanical Services 717  
Po Box 6308  
Fulton MO 65251-8308  
US

**SHIP TO:**

Teel Mechanical Services 717  
4388 County Road 203  
Fulton MO 65251-3716  
US

DATE SHIPPED	SHIP VIA	SALES ORDER	ORDER DATE	WARRANTY CLAIM	JOB NAME	PAGE
	3 UPS [201661]	3949017	05/09/2023		Hallsville Middle School	1 of 1

LINE #	ITEM	DESCRIPTION	QTY ORDERED	QTY SHIPPED	B/O	UNIT PRICE	AMOUNT
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Carrier: 3 UPS [201661]

Tracking #: 1Z6668040396097322

1	DICP-22	COND PUMP 120V 22FT LIFT W/O TUBING 120 VOLT CONDENSATE PUMP 22 FOOT LIFT 160 DEGREE	10	10	0		
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Past due Invoices are subject to a service charge of 1% per month.

ST Louis  
3141 Riverport Tech Center Drive  
Maryland Heights, MO 63043

Toll Free: (800) 333-7256

Main Number: (314) 595-7600

After Hours: (314) 578-5076

Corporate Phone: (866) 742-6930

Corporate Fax: (812) 962-5309

Customer Finance Dept. Email: [kaccredit@kochair.com](mailto:kaccredit@kochair.com)

SUBTOTAL	830.00
AMOUNT DUE	830.00
INVOICE DUE BY	03/05/2024



1900 West Lloyd Expressway  
Evansville, IN 47712

Distributors of Quality HVAC Equipment and Parts

# INVOICE

<b>INVOICE DATE</b>	<b>INVOICE NUMBER</b>
01/08/2024	3073517
<b>CUSTOMER NUMBER</b>	<b>CUSTOMER P.O. #</b>
71433	40905
<b>PLEASE REMIT PAYMENT TO:</b>	
<b>KOCH AIR</b> <b>PO BOX 636092</b> <b>CINCINNATI, OH 45263-6092</b>	

<b>TO VIEW AND PAY ONLINE GO TO:</b>	<a href="http://kochair.billtrust.com">http://kochair.billtrust.com</a>
<b>USE THIS ENROLLMENT TOKEN:</b>	DRS LRX QMF

**SOLD TO:**

Teel Mechanical Services 717  
Po Box 6308  
Fulton MO 65251-8308  
US

**SHIP TO:**

Teel Mechanical Services 717  
4388 County Road 203  
Fulton MO 65251-3716  
US

DATE SHIPPED	SHIP VIA	SALES ORDER	ORDER DATE	WARRANTY CLAIM	JOB NAME	PAGE	
	Direct Ship	3949017	05/09/2023		Hallsville Middle School	1 of 1	
LINE #	ITEM	DESCRIPTION	QTY ORDERED	QTY SHIPPED	B/O	UNIT PRICE	AMOUNT

Carrier: Direct Ship

Tracking #: 904933088

1	CE30MP032-045-RC5	COMPRESSOR YEAR 2-5 PARTS ONLY	1	1	0		
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Past due Invoices are subject to a service charge of 1% per month.

**ST Louis** Toll Free: (800) 333-7256 Corporate Phone: (866) 742-6930  
 3141 Riverport Tech Center Drive Main Number: (314) 595-7600 Corporate Fax: (812) 962-5309  
 Maryland Heights, MO 63043 After Hours: (314) 578-5076 Customer Finance Dept. Email: kaccredit@kochair.com

<b>SUBTOTAL</b>	600.00
<b>AMOUNT DUE</b>	600.00
<b>INVOICE DUE BY</b>	03/08/2024



1900 West Lloyd Expressway  
Evansville, IN 47712

Distributors of Quality HVAC Equipment and Parts

# INVOICE

INVOICE DATE	INVOICE NUMBER
01/10/2024	3075607
CUSTOMER NUMBER	CUSTOMER P.O. #
71433	40905
PLEASE REMIT PAYMENT TO:	
<b>KOCH AIR</b> PO BOX 636092 CINCINNATI, OH 45263-6092	

<b>TO VIEW AND PAY ONLINE GO TO:</b>	<a href="http://kochair.billtrust.com">http://kochair.billtrust.com</a>
<b>USE THIS ENROLLMENT TOKEN:</b>	DRS LRX QMF

**SOLD TO:**

Teel Mechanical Services 717  
Po Box 6308  
Fulton MO 65251-8308  
US

**SHIP TO:**

Teel Mechanical Services 717  
4388 County Road 203  
Fulton MO 65251-3716  
US

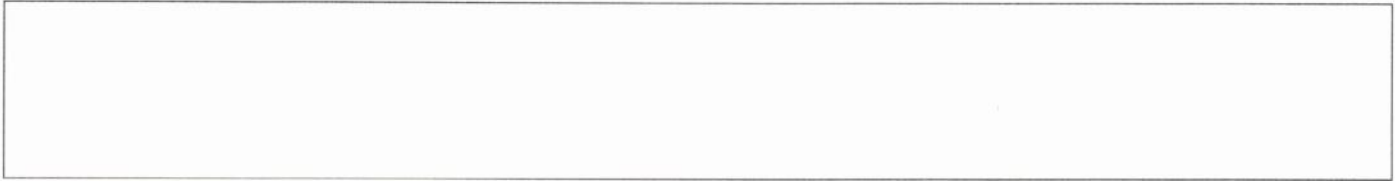
DATE SHIPPED	SHIP VIA	SALES ORDER	ORDER DATE	WARRANTY CLAIM	JOB NAME	PAGE
	Direct Ship	3949017	05/09/2023		Hallsville Middle School	1 of 1

LINE #	ITEM	DESCRIPTION	QTY ORDERED	QTY SHIPPED	B/O	UNIT PRICE	AMOUNT
--------	------	-------------	-------------	-------------	-----	------------	--------

Carrier: Direct Ship

Tracking #: 904953063

1	CE68916	SPARE MERV 8 FILTER	1	1	0		
2	CE68910	FRESH AIR KIT	1	1	0		



**Past due Invoices are subject to a service charge of 1% per month.**

**ST Louis**  
3141 Riverport Tech Center Drive  
Maryland Heights, MO 63043

Toll Free: (800) 333-7256

Main Number: (314) 595-7600

After Hours: (314) 578-5076

Corporate Phone: (866) 742-6930

Corporate Fax: (812) 962-5309

Customer Finance Dept. Email: [kaccredit@kochair.com](mailto:kaccredit@kochair.com)

<b>SUBTOTAL</b>	215.00
<b>AMOUNT DUE</b>	215.00
<b>INVOICE DUE BY</b>	03/10/2024



Sherry Jackson <sherry.jackson@smwilson.com>

**FW:**

1 message

**Lea Anne Shetler** <lshetler@teelmechanical.com>  
To: Anna Eisenbath <anna.eisenbath@smwilson.com>  
Cc: Sherry Jackson <sherry.jackson@smwilson.com>





W

**From:** Lea Shetler <lshetler76@gmail.com>  
**Sent:** Wednesday, January 31, 2024 7:45 AM  
**To:** Lea Anne Shetler <lshetler@teelmechanical.com>  
**Subject:**







MODEL 09DPM08554A00104											
SERIAL 5023Q95857											
<b>Compressors</b>					<b>Refrigerant/System</b>					<b>Test Pressure (Gage)</b> Hi 650 PSI ( 4,482 kPa) Lo 477 PSI ( 3,289 kPa)	
Volts AC	PH	Hz	RLA	LRA	CKT	lbs	kg				
0	0	0	0.0	0	A	0	0.0	R -			
0	0	0	0.0	0	B	0	0.0				
0	0	0	0.0	0	C	0	0.0				
<b>Aux Motors</b>		Qty	Volts AC	PH	Hz	FLA	HP	KW		 MODEL 1P09DPM08554 - 00104	
Outdoor		6	208/230	3	60	6.6	1.75	1.31			
<b>Main Power Supply</b>				Max	Min			Fuse or		 SERIAL S5023Q95857	
CKT	Volts AC	PH	HZ	Volts	Volts	MCA *	MOCP *	HACR BRKR			
1	208/230	3	60	253	187	41.3	45				
2	0	0	0	0	0	0.0	0				
<b>Control Power Supply</b>			Volts	PH	Hz	MCA & MOCP		Fuse or			
								BRKR			
*MCA = Min Circuit Amps per UL 1995											
*MOCP = Max Over Current Protective Device Amps per UL 1995											
Run Test Scan											
09DPM08554A00104				Assembled in USA with domestic and globally sourced components							
Suitable for Outdoor Use ONLY				Charge System per Installation Instructions							

**Control Panel Rating**

Short Circuit Current: 5kA RMS Symmetrical

Voltage: 230-3 Phase VAC Max.

 **WARNING**

This product can expose you to chemicals including Lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

 **AVERTISSEMENT**

Ce produit peut vous exposer à des agents chimiques, y compris le plomb et les composés de plomb, identifiés par l'Etat de Californie comme pouvant causer le cancer et des malformations congénitales ou autres troubles de l'appareil reproducteur. Pour de plus amples informations, prière de consulter [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Sent from my iPhone

**V. Project Schedule Update:**

Track & Field Current Activities:

- Striping - completed
- Barrier Fence - Pending until the section of sidewalk is addressed between the concessions stand and Grandstand.

Middle School Addition Current Activities:

- Set Steel at Mech Room & Corridor: Completed
- MEP Overhead Rough: Start 1/16
- Brick mockup: Completed
- Exterior vapor barrier: Ongoing
- Exterior Framing: Ongoing
- Interior Framing: Ongoing



**VI. Construction Activity Update & Photos:**

**See Attached Photos**



IMG\_4481

**Taken on:**  
Feb 20, 2024, 3:43 PM CST



IMG\_4479

**Taken on:**  
Feb 20, 2024, 3:23 PM CST



IMG\_4443

**Taken on:**  
Feb 19, 2024, 3:36 PM CST



IMG\_4430

**Taken on:**  
Feb 19, 2024, 11:58 AM CST



IMG\_4424

**Taken on:**  
Feb 19, 2024, 10:11 AM CST



IMG\_3876

**Taken on:**  
Feb 15, 2024, 2:47 PM CST



IMG\_4246

**Taken on:**  
Feb 13, 2024, 11:15 AM CST



IMG\_4236

**Taken on:**  
Feb 13, 2024, 7:24 AM CST



IMG\_4096

**Taken on:**  
Feb 9, 2024, 10:33 AM CST



IMG\_4086

**Taken on:**  
Feb 9, 2024, 8:18 AM CST



IMG\_4063

**Taken on:**  
Feb 8, 2024, 11:04 AM CST



IMG\_4043

**Taken on:**  
Feb 7, 2024, 10:23 AM CST



IMG\_4031

**Taken on:**  
Feb 6, 2024, 12:55 PM CST



IMG\_4025

**Taken on:**  
Feb 6, 2024, 8:49 AM CST



IMG\_3905

**Taken on:**  
Jan 31, 2024, 1:54 PM CST



IMG\_3881

**Taken on:**  
Jan 30, 2024, 9:36 AM CST



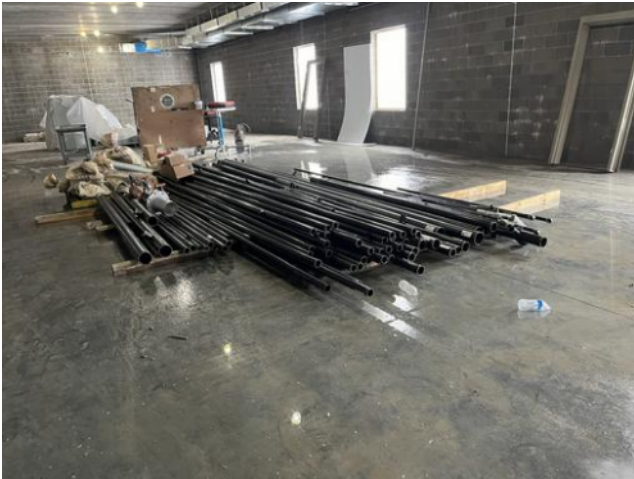
IMG\_3879

**Taken on:**  
Jan 30, 2024, 8:12 AM CST



IMG\_3837

**Taken on:**  
Jan 25, 2024, 11:15 AM CST



IMG\_3824

**Taken on:**  
Jan 24, 2024, 1:59 PM CST



IMG\_3810

**Taken on:**  
Jan 24, 2024, 10:37 AM CST

**VII. Board Action Items & Approval of Progress Report:**

**Board of Education Action Items:**

1. We request the school board review and approval for Change Orders #13, #14 & #15 as a part of the approval of this report.
2. We request the school board review and approve the January 2024 monthly payment application.

Hallsville District Administrative Team and Construction Manager request approval of Progress Report #10, and action items listed above as presented and as further discussed at the February 27, 2024 School Board Meeting.