

Purchasing Division Finance Department

Room 120 411 West First Street Duluth, Minnesota 55802



Addendum 1 Solicitation 22-99413 Air handling Units, Fluid Cooler and Air-Cooled Heat Pump Equipment

This addendum serves to notify all bidders of the following changes to the solicitation documents:

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation

Posted: May 6, 2022

ADDENDUM



Date: May 5, 2022

Project: Duluth City Hall MEP Remodel

KFI Project Number: 21-0486

Addendum Number: 1

THIS ADDENDUM IS A CONTRACT DOCUMENT AND MAY APPLY TO ANY OR ALL CONTRACTS AND SUBCONTRACTS UNLESS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE ATTACHED DRAWINGS (IF ANY). ALL WORK REQUIRED BY THIS ADDENDUM SHALL BE IN COMPLETE ACCORD WITH THE CONTRACT DOCUMENTS AND SUBSEQUENT ADDENDA THERETO. THE ITEMS LISTED IN THIS ADDENDUM ARE NOT IN ANY ORDER IN REGARD TO THE DRAWINGS OR THE SPECIFICATIONS. ALL CONTRACTORS ARE CAUTIONED TO EXAMINE EACH AND EVERY ITEM OF THIS ADDENDUM.

THE FOLLOWING CHANGES OR CLARIFICATIONS TO THE PLANS & SPECIFICATIONS SHALL BE INCLUDED AS PART OF THE CONTRACT DOCUMENT

PLAN SHEET CHANGES:

1. Sheet M904 MECHANICAL SCHEDULES: IN THE DRY COOLER SCHEDULE, DELETE NOTE REFERENCING "HERISITE COATED COILS" AND ADD NOTE "PROVIDE HAIL GUARDS".

END OF ADDENDUM

Page 1 of 1 Find a way.

AIR HANDLING UNIT SCHEDULE (OWNER FURNISHED)

					MECHANICAL																											
EQUIP	LOCATION	APPLICATION	MANUFACTURER	MODEL	COOLING	HEATING	TOTAL	UNIT	DESIGN	PRE-FILTERS	FINAL-FILTERS	SUPPLY FAN	S									RETURN/I	RELIEF FAN	IS				•			VOLTAGE	NOTES
NO.				NO.	COIL	COIL	ENERGY	DESIGN	OA CFM	TYPE &	TYPE &	QUANTITY	MAX	EXT SF	BLADE	WHEEL	CLASS	FAN RPI	м внг	P VAV	MOTOR	MAX	EXT SP	BLADE	WHEEL	CLASS	FAN RPM	ВНР	VAV	MOTOR	& PHASE	
							WHEEL	ACFM		EFFICIENCY	EFFICIENCY		CFM	(IN)	TYPE	DIA.				CONTROL	HP	CFM	(IN W.C.)	TYPE	DIA.			<i>'</i>	CONTROL	HP		
DOAS-1	MECH ROOM	DEDICATED OUTSIDE AIR	DAIKIN	CAH018GDGM	CC-1	HC-1	ERW-1	7,000	7,000	2" MERV 8	4" MERV 13	1	7,000	2.00	AIRFOIL	22.25	2	1750	8.3	VFD	10	7,000	1.5	AIRFOIL	22.25	2	1750	5.21	VFD	7.5	208/3	
DOAS-2	MECH ROOM	DEDICATED OUTSIDE AIR	DAIKIN	CAH018GDGM	CC-2	HC-2	ERW-2	7,000	7,000	2" MERV 8	4" MERV 13	1	7,000	2.00	AIRFOIL	22.25	2	1750	8.3	VFD	10	7,000	1.5	AIRFOIL	22.25	2	1750	5.21	VFD	7.5	208/3	
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1. W/ 6" FACTORY BASE OR LARGER

2. W/ INTERNAL VIBRATION ISOLATION

3. SIZE AHU AT MEAN DIRTY FILTER PRESSURE DROP 4. DOUBLE WALL CONSTRUCTION W/ SST DRAIN PAN, AND ACCESS DOORS

5. FAN SECTION TO HAVE DRAIN PAN

7	EATII	NG COIL SCH	IEDULE (OWNER	FUR	NISHE	ED)															
EQUIP A	AHU	MANUFACTURER	MODEL	MAX	NO.	FLUID	EACH	ROWS	FINS/IN	FACE	MAX.	AIR DATA				FLUID	DATA			CONTROL	NOTES
NO. N	NO.		NO.	CFM	OF		COIL SIZE			VELOCITY	APD	HEATING	EAT	LAT	CAP	EWT	LWT	GPM	MAX WATER	VALVE	
					COILS		(H"xW")			(FPM)	(IN W.C.)	CFM	(F)	(F)	(MBH)	(F)	(F)		PD (FT)		
HC-1 DO	OAS-1	DAIKIN	5WH0903B	7,000	1	35% PG	42"X55"	3	9	436	0.2	7,000	-20	77.9	726.0	160	118.8	37.5	3.8	24V	
HC-2 DO	OAS-2	DAIKIN	5WH0903B	7,000	1	35% PG	42"X55"	3	9	436	0.2	7,000	-20	77.9	726.0	160	118.8	37.5	3.8	24V	

AHU	HU COOLING COIL SCHEDULE (OWNER FURNISHED)																		
EQUIP	AHU	MANUFACTURER	MODEL	MAX	NO.	FLUID	EACH	ROWS	FINS/IN	AIR DATA						SUCTION	TOTAL CAPACITY	SENSIBLE CAPACITY	NOTES
NO.	NO.		NO.	CFM	OF		COIL SIZE			A.P.D	FACE	EAT (F)		LAT (F)		TEMP	(MBH)	(MBH)	
					COILS		(H"xW")			(IN W.C.)	VELOCITY (FPM)	DB	WB	DB	WB	(F)			
CC-1	DOAS-1	DAIKIN	5EJ0806B	7,000	1	R410A	42"X55"	6	8	0.6	436	80	67	56.5	54.7	46	264.5	174.5	1
CC-2	DOAS-2	DAIKIN	5EJ0806B	7,000	1	R410A	42"X55"	6	8	0.6	436	80	67	56.5	54.7	46	264.5	174.5	1

1. MAX FACE VELOCITY - COOLING COIL: 500 FPM

ENERAL					MECHANICAL										ELECTRIC	AL	NOTES
EQUIP	LOCATION	SERVES	MANUFACTURER	MODEL NO.	CONTROL	TOTAL	SUCTION	AMB.	REFRIG.	COMPR	RESSORS	CONDE	NSER FANS	EER	MCA	VOLTAGE	
NO.					STEPS	МВН	TEMP (F)	TEMP (F)	TYPE	NO.	FLA	NO.	HP			& PHASE	
AHP-1	2nd-FLOOR ROOF	DOAS-1	AAON	CFA-031-D-A-8	MODULATING	400	45	95	R410A	4	124	4	0.75	13.7	131	208/3	ALL
AHP-2	2nd-FLOOR ROOF	DOAS-2	AAON	CFA-031-D-A-8	MODULATING	400	45	95	R410A	4	124	4	0.75	13.7	131	208/3	ALL

2. PROVIDE LOW AMBIENT PACKAGE TO 0°F 3. TWO VARIABLE REFRIGERANT SYSTEMS

4. SINGLE POINT ELECTRICAL CONNECTION WITH READILY ACCESSIBLE NON-FUSED DISCONNECTION MEANS 5. PROVIDE HOT GAS BYPASS

6. AIR SOURCE HEAT PUMP

7. 120-VAC CONVENIENCE OUTLET - FIELD WIRED 8. UNIT OPERATING WEIGHT: 2,274 LBS PLUS ROOFING SUPPOERT RAILS

ENERAL							RETURN/EX	HAUST			OUTSIDE/S	UPPLY					ELECTRICAL		NOTE
EQUIP	LOCATION	SERVES/APPLICATION	MANUFACTURER	MODEL	TYPE	USAGE	AIRFLOW	EAT - DB/WB	LAT - DB/WB	APD	AIRFLOW	EAT - DB/WB	LAT - DB/WB	APD	SENSIBLE EFFECTIVENESS	TOTAL	MOTOR SIZE		1
NO.							(CFM)	(°F)	(°F)	(IN W.C.)	(CFM)	(°F)	(°F)	(IN W.C.)		(BTU/H)	(HP)	V/PH/Hz	1
ERU-1	PENTHOUSE	TOILET EXHAUST	OXYGEN8	C24IN-BP	FIXED, CROSS	SUMMER	2400	75/63	83.5/68.1	1.62	2400	88/72	79.5/67.4	0.86	65%	43369	3.6	208/3/60	-
						WINTER	2400	70/52.9	26.2/25.9	1.62	2400	3/0.6	46.8/36.6	0.86	65%	138453	3.6	208/3/60	_
ERW-1	DOAS-1	DOAS-1	DAIKIN	ECW 546-3A	WHEEL	SUMMER	7000	75/62	78/68	0.94	7000	88/72	80/66.4	0.97	64%	139204	0.75	115/60/1	-
						WINTER	7000	70/54	11/14.5	0.94	7000	-20/-20	11/14.5	0.97	65%	522962	0.75	115/60/1	-
ERW-2	DOAS-2	DOAS-2	DAIKIN	ECW 546-3A	WHEEL	SUMMER	7000	75/62	78/68	0.94	7000	88/72	80/66.4	0.97	64%	139204	0.75	115/60/1	
						WINTER	7000	70/54	11/14.5	0.94	7000	-20/-20	11/14.5	0.97	65%	522962	0.75	115/60/1	

DRY COOLER SCHEDULE (OWNER FURNISHED) MECHANICAL VOLTAGE & PHASE LOCATION MANUFACTURER OPERATING WEIGHT **RATING POINT** GENERAL SOUND PRESSURE (@ 10') dB(A) LOAD FLOW CAPACITY FLUID PRESSURE FLUID TEMPERATURES FANS **AIR FLOW POWER** NO. DROP (FT) IN (°F) **TYPE** H.P. (CFM) 100 100 46.8 230V/3Ph DC-01 THIRD FLOOR ROOF GUNTNER GFW 090.2D06/6SA-E255U/04P.M 6510 XX 35% PG 255 24.3 6 3.15 93316

1. W/ DISCONNECT 2.W.VIBRATION (SOLATORS

ACTIVE COOLERS W/ 6 STEP CONTROL EACH

3. PROVIDE HAIL GUARDS.
4. LWT SHALL BE HELD TO +7- 3 DEG. F. DURING STAGING (4)

5. ADDITIONAL HEIGHT LEGS 6. PAINTED UNITS NOT INCLUDED

7. 15" HIGH LEGS 8. FIRST PAIR OF FANS TO HAVE VFDS

				I HEREBY CERTIFY THAT THIS PLAN,
				SPECIFICATION OR REPORT WAS PREPARED BY
				ME OR UNDER MY DIRECT SUPERVISION AND THA I AM A DULY LICENSED PROFESSIONAL ENGINEER
				UNDER THE LAWS OF THE STATE OF MINNESOTA.
				PRINT NAME: RANDY P. CHRISTENSON
				\mathcal{S}_{-}
				Kandy Ut
ADD-1	5-5-22	CRE	SCHEDULE CHANGE	DATE: 05-03-2022 REG. NO.: 40493
No.	Date:	By:	Revision:	

ENGINEERS
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CITY OF DULUTH CITY HALL MEP RENEWAL DESIGN

411 WEST 1ST STREET DULUTH, MN 55802

MECHANICAL SCHEDULES

DWG Scale: AS NOTED