

Addendum 3

January 14, 2026

Blue Grass Airport (LEX)

HVAC Maintenance Services RFP

TO: All Plan Holders

The following addendum items modify, change, delete from or add to, the requirements of the contract documents for this project. The articles contained in the addendum take precedence over the requirements of the previously published contract documents.

Item 1 – Contract Terms

- The successful firm will be contracted for one year. An extension of 2 additional years is possible if desired by the LFUCAB.

Item 2 – Updated Fee Submittal

- Attachment 1

Item 3 – Sign In Sheet

- Attachment 2

Item 4 – HVAC Inventory

- Attachment 3
- This attachment contains a list of HVAC equipment in the Terminal building that should be included in the Preventative Maintenance Services (1.2.1) lump sum cost.
- An excel file of this list will also be added to the file share link in Addendum 1.
- A quantity of 130 heat pumps was included on this list.
- Equipment schedules for the remaining facility buildings (Fire Station, Maintenance Complex, ARFF Training Center, and West Aviation building) are also included in this attachment and should be included in the Preventative Maintenance Services (1.2.1) lump sum cost.

Attachment 1 - Fee Submittal

Contractor Name: _____

1.2.1 PM Services

Lump Sum Cost: _____

1.2.2 Emergency Repair Services

During normal business hours: _____

After hours: _____

Other special rates (Weekends, holidays, etc): _____

1.2.3 Routine and Corrective Repairs

Cost per hour: _____

Markup on parts: _____

1.2.4 System Performance Reporting, Project Reviews, Reporting

Cost per hour: _____

1.2.5 Project Reviews

Cost per hour: _____

1.2.8 Cooling Tower Cleaning

Lump sum cost per cooling tower: _____

1.2.9 One-time System Assessment

Lump sum cost: _____

PRE BID MEETING SIGN IN SHEET
HVAC MAINTENANCE SERVICES RFP

TUESDAY, JANUARY 13, 2026, AT 2:00 P.M. - BOARD ROOM

NAME	COMPANY	PHONE/CELL	E-MAIL
RICK VAVENTINE	CPS	859 494 6264	RICK.VAVENTINE@CPSLEX.COM
John Howard	Sunrise Plumbing Solutions	859 619 5728	John@sunrisepmechanical.com
John Little	Comfort & Energy Solutions	859-953-7351	john.little@cslex.com
Daniel Wiggins	Dynastic Air Solutions	502-536-0276	DWiggins@DynamicHVACs.com
Mark Miles	Dynastic Air Solutions	502-715-4580	Milesch11@dynasticair.com
Chris Hollingsworth	TP Mechanical	859-421-4867	Christopher.Hollingsworth@TPMechanical.com
Anthony Appe	Perfection Group	859-221-1642	aprof@perfectiongroup.com
Ben Appe	"	859-321-0558	BAppe@perfectiongroup.com
Ben Sills	"	859-559-3615	Bsills@perfectiongroup.com
Adam Meyer	JCI	859-333-4841	adam.w.meyer@jci.com
Bradley Finch	JCI	859-229-8380	bradley.finch@jci.com
John Sette	Sette	859-983-2440	John.sette@confortsystemsusa.com
Tom Jeffery	CUSA KEY	850 573 7072	T.mathy.Gaffaney@ConfortsystemsUSA.com
Ryan McElroy	DESAT -	859-300-1316	RMCAHEE@DESAT.COM
Jameson Vacek	DESAT	859-551-1548	Jameson.Vacek@DESAT.COM

Asset UID	Asset name	Asset Category	Sub-category	Make	Model	Description	Condition	Related Bu	Asset Status	Location Description	Install Year	
365	HVAC-001-R-Ec	Mechanical	HVAC	Liebert	PFC037A-AL0	Liebert Split2 for Delta IT		1	Operational	Lower roof top above Delta IT	2001	Maintained by Airlines
364	HVAC-001-R-Eb	Mechanical	HVAC	Liebert	PFC037A-AL0	Liebert split 1 for the Delta IT		1	Operational	Lower rooftop above delta IT room	2001	Maintained by Airlines
363	HVAC-001-R-Og	Mechanical	HVAC	Greenheck	DGX-120-H32	Makeup air unit for baggage carousel (MAU-1)		1	Operational		2018	
362	HVAC-001-R-Of	Mechanical	HVAC	Mitsubishi	PUY-A30NHA7	Split system for the baggage makeup area		1	Operational	Lower rooftop above baggage carousel	2018	
361	HVAC-001-R-Oe	Mechanical	HVAC	Mitsubishi	PUY-A18NKA7	American Airlines IT Room		1	Operational	Lower roof above baggage carousel	2018	Maintained by Airlines
358	HVAC-001-R-Nb	Mechanical	HVAC	CaptiveAire	A2-D.250-20D	Kitchen makeup unit 2		1	Operational	Rooftop above kitchen	2021	
						Kitchen exhaust makeup air unit 1						
357	HVAC-001-R-Nc	Mechanical	HVAC	CaptiveAire	NHMUA1-12-G10	INACTIVE -- NOT IN USE		1	Out-of-Service	Rooftop above Kitchen	1989	
356	HVAC-001-R-Ca	Mechanical	HVAC	Liebert	PFH037A-AH7	Liebert Split 2 for Main IT Room		1	Operational	Roof top above Main IT Room	2010	
353	HVAC-001-56b	Mechanical	HVAC	Cleaver Brooks	CBH-200-60	Boiler #2		1	Operational	Boiler Room 2	1989	
351	HVAC-001-196a	Mechanical	HVAC	Bell & Gossett	185011	Chiller pumps, replacement motors		1	Operational	Boiler Room		
112	HVAC-001-R-La	Mechanical	HVAC	York	HEHB-T090AA	York Split (mini-chiller)		1	Operational	Club Conference Room Backup	2009	
111	HVAC-001-R-Cb	Mechanical	HVAC	Liebert	PFH037A-AH7	Liebert Split 1 for main IT Room		1	Operational	Roof top above Main IT Room	2010	
110	HVAC-001-R-Ba	Mechanical	HVAC	Liebert	PFH020A-PL7	Liebert Split that serves IT Room in Admin		1	Operational	Rooftop above admin offices	2010	
109	HVAC-001-R-Cc	Mechanical	HVAC	Liebert	PFH020A-PL7	Liebert Split		1	Operational	Rooftop above TSA Offices	2009	
108	HVAC-001-R-Od	Mechanical	HVAC	Trane	4TWR4036G1000AA	Trane XR unit for Allegiant ATO Space		1	Operational	Lower Rooftop above bagage carousel	2019	
107	HVAC-001-R-Oc	Mechanical	HVAC	Trane	4TWR4036G1000AA	Trane XR unit for United ATO Space		1	Operational	Lower rooftop above bagage carousel	2019	
106	HVAC-001-R-Ob	Mechanical	HVAC	Trane	4TWR4036G1000AA	Trane XR unit for American ATO Space		1	Operational	Lower rooftop above bagage carousel	2019	
105	HVAC-001-R-Oa	Mechanical	HVAC	Trane	4TWA4060A3000AA	Trane XR unit for Delta ATO Space		1	Operational	Lower rooftop above bagage carousel	2019	
104	HVAC-001-R-Pa	Mechanical	HVAC	Goodman	GPC1324H21AB	RTU that serves IT room		1	Operational	Concourse B IT Room	2008	
103	HVAC-001-R-Oh	Mechanical	HVAC	AAON	43770	RTU/ AAON		1	Operational	Roof Top - TSA Baggage Handling / Screening Room	2002	
102	HVAC-001-306b	Mechanical	HVAC	McQuay		McQuay AHU-2 for the Club		1	Operational	Mechanical room on the west side of The Club	2008	
101	HVAC-001-306a	Mechanical	HVAC	McQuay	LAH 007 ADV	McQuay AHU-1 for the Club		1	Operational	Mechanical room for The Club-behind door number S300	2008	
100	HVAC-001-R-Kb	Mechanical	HVAC	Trane	RCCA1014-1EBAF A1U1A1f	Trane Climate Changer-12		1	Operational	Roof Top - Concourse A	2015	
99	HVAC-001-R-Ka	Mechanical	HVAC	Trane	RCCA1014-1EBAF A1U1A1f	Trane Climate Changer-11		1	Operational	Roof Top - Concourse A	2015	
						RTU-10 Mammoth that serves restaurant kitchen by						
98	HVAC-001-R-Ea	Mechanical	HVAC	Mammoth	DHEBFR-220-G480-AA25-	managers lot		1	Operational	Lower Roof Top - Restaurant Kitchen by Managers Lot	2015	
97	HVAC-001-R-Bb	Mechanical	HVAC	Mammoth	DHEBFP-390-W488-AA60-	RTU-6 Mammoth that serves terminal lobby area		1	Operational	Roof Top - Front of Terminal	2015	
96	HVAC-001-R-Ba	Mechanical	HVAC	Mammoth	DHEBFP-380-W476-AA60-	RTU-5 Mammoth that serves lobby area		1	Operational	Roof Top - Front of Terminal	2015	
95	HVAC-001-R-Aa	Mechanical	HVAC	Mammoth	DHEBFP-350-W445-AA60-	RTU-4 Mammoth that feeds the terminal lobby		1	Operational	Roof Top - Front of Terminal	2015	
94	HVAC-001-R-Ab	Mechanical	HVAC	Carrier	39MW14C0112HZ22XCS	Carrier RTU -9 that feeds front of lobby		1	Operational	Roof Top - Front of Terminal	2009	
93	HVAC-1-14	Mechanical	HVAC	Standard		Standard 1 Heat Exchanger/Boiler		1	Operational	?	2006	
						Mcquay - Air Handler #1						
92	HVAC-001-068c	Mechanical	HVAC	Mcquay	E791028030	West side of Concourse B		1	Operational	BoilerRoom3	2006	
						Mcquay - Air Handler #2						
91	HVAC-001-068d	Mechanical	HVAC	Mcquay	E791028010	East side concourse B		1	Operational	BoilerRoom3	2006	
90	HVAC-001-R-Fa	Mechanical	HVAC	Marley	NC8402PAN1GGF	Cooling Tower – Marley NC8402PAN1GGF Boiler Room 1		1	Operational	Lower roof top above Boiler Room 1	2014	
89	HVAC-001-100b	Mechanical	HVAC	Baltimore Aircoil Comf	FXV-442	Cooling Tower 2 At Bag Claim (feeds heat pumps)		1	Operational	Exterior of Baggage Claim	2008	
88	HVAC-001-100a	Mechanical	HVAC	Baltimore Aircoil Comf	FXV-442	Cooling Tower 1 At Bag Claim (feeds heat pumps)		1	Operational	Exterior of Baggage Claim	2008	
87	HVAC-001-196b	Mechanical	HVAC	Smardt	WE100.2HGXX.F2AQFA.F2290 ton	Mcquay air cooled chiller AGS210CH27-ER 10	New	1	Operational	Boiler Room 1	2022	
86	HVAC-001-R-Pb	Mechanical	HVAC	Mcquay	AGS210CH27-ER 10	Cools Concourse B		1	Operational	Concourse B	2007	Being replaced in 2026
85	HVAC-001-068b	Mechanical	HVAC	Lochinvar	CHN1441	Lochinvar Boiler -2 CHN1441		1	Operational	Boiler Room	2007	
84	HVAC-001-068a	Mechanical	HVAC	Lochinvar	CHN1441	Lochinvar Boiler -1 CHN1441		1	Operational	Boiler Room 3	2007	
						Weil-McLain 988 Boiler Room 1 Backup Dual Fuel Boiler #3						
83	HVAC-001-197c	Mechanical	HVAC	Weil-McLain		988 Cyclonetic Burner serial #U111358A-01		1	Operational	Boiler Room	2014	
						Lochinvar (cresent) FBN2000 Boiler Room 1 Primary						
82	HVAC-001-197b	Mechanical	HVAC	Lochinvar (cresent)	FBN2000	Boiler#2		1	Operational	Boiler Room	2014	
						Lochinvar (cresent) FBN2000 Boiler Room 1 Primary						
81	HVAC-001-197a	Mechanical	HVAC	Lochinvar (cresent)	FBN2000	Boiler #1		1	Operational	Boiler Room	2014	
						Boiler #1						
80	HVAC-001-56a	Mechanical	HVAC	Cleaver Brooks	CBH 200-60	There is a crack in #1		1	Operational	Boiler Room #2	1989 x2	Being replaced in 2026

VRF SYSTEM - AIR HANDLER SCHEDULE																					
MARK	LOCATION	SERVES	TYPE	CONDENSING UNIT	SUPPLY AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	FAN MOTOR WATTS	TYPE	TOTAL MBH	SEN MBH	ENT. AIR TEMP. DB/WB (DEG.F)	COOLING COIL	LVG. AIR TEMP. DB/WB (DEG.F)	HEATING MBH	EXT. STATIC PRESSURE (IN.W.G.)	ELECTRICAL DATA			BASIS OF DESIGN	MODEL NO.	NOTES
																MCA	MOCP	VOLTS/PHASE			
AH-1-1	LOWER LEVEL	007 - TRAINING ROOM	FAN COIL UNIT HORIZ	HR-1	335	-	-	DX	12	9.8	80/67	60.95/5.6	13.5	0.4	0.6	15	208/1	DAIKIN	FXMO12	1,2,3,4,5	
AH-1-2	LOWER LEVEL	007 - TRAINING ROOM	FAN COIL UNIT HORIZ	HR-1	335	-	-	DX	12	9.8	80/67	60.95/5.6	13.5	0.4	0.6	15	208/1	DAIKIN	FXMO12	1,2,3,4,5	
AH-1-3	LOWER LEVEL	005/006 - PUBLIC RR	FAN COIL UNIT HORIZ	HR-1	335	-	-	DX	12	9.8	80/67	60.95/5.6	13.5	0.4	0.6	15	208/1	DAIKIN	FXMO12	1,2,3,4,5	
AH-1-4	LOWER LEVEL	004 - EXERCISE FACILITIES	FAN COIL UNIT HORIZ	HR-1	1090	-	-	DX	30	23.8	80/67	60.95/5.6	34	0.4	2.8	15	208/1	DAIKIN	FXMO30	1,2,3,4,5	
AH-1-5	LOWER LEVEL	S1-000 - STAIR 1	FAN COIL UNIT HORIZ	HR-1	1130	-	-	DX	36	29	80/67	60.95/5.6	40	0.4	2.9	15	208/1	DAIKIN	FXMO36	1,2,3,4,5	
CS-1-1	LOWER LEVEL	008 - TRAINING STORAGE	2X2 CASSETTE	HR-1	320	-	-	DX	7.5	5.9	80/67	60.95/5.6	8.7	N/A	0.8	15	208/1	DAIKIN	FXZQ07	1,2,3,4,5	
CS-1-2	LOWER LEVEL	001 - LOBBY	2X2 CASSETTE	HR-1	350	-	-	DX	12	7.8	80/67	60.95/5.6	13.5	N/A	0.4	15	208/1	DAIKIN	FXZQ12	1,2,3,4,5	
WM-1-1	LOWER LEVEL	011 - ELECTRICAL EQPT	WALL MOUNTED	HR-1	290	-	-	DX	12	8.9	80/67	60.95/5.6	13.5	N/A	0.4	15	208/1	DAIKIN	FXAQ12	1,2,3,4,5	
WM-1-2	LOWER LEVEL	011 - ELECTRICAL EQPT	WALL MOUNTED	HR-1	500	-	-	DX	18	13.7	80/67	60.95/5.6	20	N/A	0.5	15	208/1	DAIKIN	FXAQ18	1,2,3,4,5	
AH-2-1	FIRST FLOOR	131 - DAYROOM	FAN COIL UNIT HORIZ	HR-1	317	-	-	DX	9.5	7.8	80/67	60.95/5.6	10.5	0.4	0.6	15	208/1	DAIKIN	FXMQ09	1,2,3,4,5	
AH-2-2	FIRST FLOOR	120 - LOCKERS	FAN COIL UNIT HORIZ	HR-1	685	-	-	DX	24	15.6	80/67	60.95/5.6	27	0.4	1.8	15	208/1	DAIKIN	FXMQ24	1,2,3,4,5	
AH-2-3	FIRST FLOOR	123/125/127 - DORMS	FAN COIL UNIT HORIZ	HR-1	320	60	-	DX	7.5	5.9	80/67	60.95/5.6	8.7	0.4	0.8	15	208/1	DAIKIN	FXMQ07	1,2,3,4,5,6	
AH-2-4	FIRST FLOOR	124/126/128 - DORMS	FAN COIL UNIT HORIZ	HR-1	320	60	-	DX	7.5	5.9	80/67	60.95/5.6	8.7	0.4	0.8	15	208/1	DAIKIN	FXMQ07	1,2,3,4,5,6	
AH-2-5	FIRST FLOOR	137 - TOC	CEILING SUSPENDED	HR-1	410	-	-	DX	12	9.4	80/67	60.95/5.6	13.5	0.4	0.8	15	208/1	DAIKIN	FXHQ12	1,2,3,4,5	
AH-2-6	FIRST FLOOR	138 - SCBA	FAN COIL UNIT HORIZ	HR-1	320	65	-	DX	7.5	5.9	80/67	60.95/5.6	8.7	0.4	0.8	15	208/1	DAIKIN	FXMQ07	1,2,3,4,5	
CS-2-1	FIRST FLOOR	129 - KITCHEN	3X3 CASSETTE	HR-1	775	-	-	DX	24	20	80/67	60.95/5.6	27	N/A	0.7	15	208/1	DAIKIN	FXZQ24	1,2,3,4,5	
CS-2-2	FIRST FLOOR	129 - KITCHEN	3X3 CASSETTE	HR-1	775	-	-	DX	24	20	80/67	60.95/5.6	27	N/A	0.7	15	208/1	DAIKIN	FXZQ24	1,2,3,4,5	
CS-2-3	FIRST FLOOR	130 - DAYROOM	2X2 CASSETTE	HR-1	320	-	-	DX	9.5	7.8	80/67	60.95/5.6	10.5	N/A	0.6	15	208/1	DAIKIN	FXZQ09	1,2,3,4,5	
CS-2-4	FIRST FLOOR	137 - CORRIDOR	2X2 CASSETTE	HR-1	300	-	-	DX	5.8	4.7	80/67	60.95/5.6	6.5	N/A	0.3	15	208/1	DAIKIN	FXZQ05	1,2,3,4,5	
CS-2-5	FIRST FLOOR	132 - DORM	2X2 CASSETTE	HR-1	320	60	-	DX	7.5	6.9	80/67	60.95/5.6	8.7	N/A	0.8	15	208/1	DAIKIN	FXZQ07	1,2,3,4,5,6	
CS-2-6	FIRST FLOOR	115 - LAVATORY	2X2 CASSETTE	HR-1	300	100	-	DX	5.8	4.7	80/67	60.95/5.6	6.5	N/A	0.3	15	208/1	DAIKIN	FXZQ05	1,2,3,4,5,6	
CS-2-7	FIRST FLOOR	114 - CHIEF	2X2 CASSETTE	HR-1	320	50	-	DX	9.5	7.8	80/67	60.95/5.6	10.5	N/A	0.8	15	208/1	DAIKIN	FXZQ09	1,2,3,4,5,6	
CS-2-8	FIRST FLOOR	113 - DEPUTY CHIEF	2X2 CASSETTE	HR-1	320	50	-	DX	9.5	7.8	80/67	60.95/5.6	10.5	N/A	0.8	15	208/1	DAIKIN	FXZQ09	1,2,3,4,5,6	
CS-2-9	FIRST FLOOR	112 - FILE STORAGE	2X2 CASSETTE	HR-1	300	50	-	DX	5.8	4.7	80/67	60.95/5.6	6.5	N/A	0.3	15	208/1	DAIKIN	FXZQ05	1,2,3,4,5,6	
CS-2-10	FIRST FLOOR	101 - LOBBY	2X2 CASSETTE	HR-1	405	-	-	DX	15	10.8	80/67	60.95/5.6	17	N/A	0.4	15	208/1	DAIKIN	FXZQ15	1,2,3,4,5	
CS-3-1	SECOND FLOOR	202 - WATCH/ALARM ROOM	2X2 CASSETTE	HR-1	495	-	-	DX	18	13	80/67	60.95/5.6	21	N/A	0.9	15	208/1	DAIKIN	FXZQ18	1,2,3,4,5	
CS-3-2	SECOND FLOOR	201 - CORRIDOR	2X2 CASSETTE	HR-1	405	-	-	DX	15	10.8	80/67	60.95/5.6	17	N/A	0.4	15	208/1	DAIKIN	FXZQ15	1,2,3,4,5	
CS-3-3	SECOND FLOOR	S1-200 - STAIR 1	3X3 CASSETTE	HR-1	910	-	-	DX	36	28.6	80/67	60.95/5.6	40	N/A	1.4	15	208/1	DAIKIN	FXFQ36	1,2,3,4,5	
CS-3-4	SECOND FLOOR	S1-200 - STAIR 2	3X3 CASSETTE	HR-1	320	-	-	DX	9.5	7.8	80/67	60.95/5.6	10.5	N/A	0.8	15	208/1	DAIKIN	FXZQ09	1,2,3,4,5	
CS-3-5	SECOND FLOOR	S2-200 - STAIR 2	2X2 CASSETTE	HR-1	320	-	-	DX	9.5	7.8	80/67	60.95/5.6	10.5	N/A	0.8	15	208/1	DAIKIN	FXZQ09	1,2,3,4,5	

NOTES:
1. CASSETTE AND BRANCH SELECTOR UNIT QUANTITIES SHOWN ON PLANS.
2. MAXIMUM SOUND POWER OUTPUT SHALL NOT EXCEED 46 dB.
3. VRV SYSTEM SHALL BE CONTROLLED BY FACTORY PROVIDED CASSETTE THERMOSTATS INTEGRATED WITH CONDENSER/HEAT PUMP OPERATION. PROVIDE CONTROLLER FOR INTEGRATION WITH BAS (HVAC CONTROL PANEL).

4. ALL UNITS REFRIGERANT R-410.
5. PROVIDE INTEGRAL CONDENSATE PUMP UNLESS OTHERWISE NOTED ON PLANS
6. SUPPLY FAN SHALL RUN CONTINUOUS

VRV - HEAT RECOVERY SCHEDULE																			
MARK	LOCATION	OPER. WEIGHT (LBS)	TOTAL CAPACITY (MBH)	COMPRESSOR DATA				AIR COOLED CONDENSER DATA				ELECTRICAL DATA				BASIS OF DESIGN		MODEL NO.	NOTES
TYPE	REFRIG. TYPE	NO. OF COMPS	RANGE (%)	MAX. INDOOR UNITS	IEER	SOUND PWR (dBA)	AMB. TEMP (DB/WB °F)	NO. OF FANS	AIRFLOW (CFM)	MCA	MOCP	VOLTS/PHASE	MANUFACTURER						

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DEHUMIDIFIER SCHEDULE												
MARK	LOCATION	WATER REMOVAL (GALLONS / DAY)	AIRFLOW (CFM)	ELECTRICAL DATA				BASIS OF DESIGN		WEIGHT (LBS)	NOTES	
				VOLT/PH	HZ	WATTS	AMPS	MANUFACTURER	MODEL			
DH-1	TOG - 137	4.125	155	120/1	60	324	2.8	46	ULTRA AIRE	MD33	39	1,2,3,4,5

NOTES:
1. CAPACITIES BASED ON AMBIENT OF 80° F AND 60% RH.
2. WASHABLE AIR FILTER.
3. SURFACE MOUNT KIT.
4. CONDENSATE PUMP WITH POWER CORD WITH PLUG END.
5. POWER CORD WITH PLUG END.

ELECTRIC RECESSED WALL HEATER SCHEDULE													
MARK	SERVES	LOAD (kW)	TYPE	ENCLOSURE			MOUNTING HEIGHT (IN.)	COLOR	ELECTRICAL DATA			BASIS OF DESIGN	NOTES
				DEPTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)			AMPS	VOLT	PH		
EWH-1	LAVATORY	1.5	RECESSED WALL	3 5/8	12 1/8	9 1/4	12	WHITE	12.5	120	1	60	MARKE 3055 1
EWH-2	LAVATORY	1.5	RECESSED WALL	3 5/8	12 1/8	9 1/4	12	WHITE	12.5	120	1	60	MARKE 3055 1
EWH-3	LAVATORY	1.5	RECESSED WALL	3 5/8	12 1/8	9 1/4	12	WHITE	12.5	120	1	60	MARKE 3055 1
EWH-4	LAVATORY	1.5	RECESSED WALL	3 5/8	12 1/8	9 1/4	12	WHITE	12.5	120	1	60	MARKE 3055 1

NOTES:
1. ALL EXPOSED PARTS OF HEATER SHALL BE POWDER COATED WHITE TO MATCH THE ARCHITECTURAL WALLS.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE												
MARK	DESCRIPTION	FACE TYPE	MAX NC	MATERIAL	FINISH	FRAME TYPE	FACE SIZE	BASIS OF DESIGN		MANUFACTURER	MODEL	NOTES
								MANUFACTURER	MODEL			
SA	SQUARE CEILING SUPPLY	PLAQUE	30	ALUMINUM	WHITE	LAY-IN	24x24	PRICE	ASPD	1		
SB	SQUARE CEILING SUPPLY	PLAQUE	30	ALUMINUM	WHITE	SURFACE	12x12	PRICE	ASPD	1		
SC	LOUVERED FACE SUPPLY	45° DEFLECTION, 3/4" BLADE SPACING	30	ALUMINUM	WHITE	SURFACE	SEE PLANS	PRICE	620D	1		
RA	SQUARE CEILING RETURN	PERFORATED	30	ALUMINUM	WHITE	LAY-IN	24x24	PRICE	APDDR	1		
RB	LOUVERED FACE RETURN	45° DEFLECTION, 3/4" BLADE SPACING	30	ALUMINUM	WHITE	SURFACE	SEE PLANS	PRICE	630D	1		
EA	SQUARE CEILING EXHAUST	PERFORATED	30	ALUMINUM	WHITE	LAY-IN	24x24	PRICE	APDDR	1		
EB	LOUVERED FACE EXHAUST	45° DEFLECTION, 3/4" BLADE SPACING	30	ALUMINUM	WHITE	SURFACE	SEE PLANS	PRICE	630D	1		
EC	SQUARE CEILING EXHAUST	PERFORATED	30	ALUMINUM	WHITE	SURFACE	12x12	PRICE	APDDR	1		
TA	SQUARE CEILING EXHAUST	PERFORATED	30	ALUMINUM	WHITE	SURFACE	12x12	PRICE	APDDR	1		
TB	LOUVERED FACE EXHAUST	45° DEFLECTION, 3/4" BLADE SPACING	30	ALUMINUM	WHITE	SURFACE	24x24	PRICE	630D	1		

NOTES:
1. PROVIDE BORDERS/FRAMES SUITABLE FOR SECURING TO CONSTRUCTION MATERIAL.

RADIANT TUBE HEATER SCHEDULE												
MARK	SERVICE	TYPE	INCOMING GAS PRESSURE (IN. W.C.) (NOTE 2)	MBH INPUT	LENGTH (FT.)	CONTROL / SENSOR	ELECTRICAL		WEIGHT (LBS.)	MANUFACTURER	MODEL	NOTES
							VOLT- PHASE	DISCONNECT BY				
GH-1	APPARATUS BAY	NATURAL GAS	14	60	20	NOTE 5	120-1	EC	50	REZNOR	VPS	1,2,3,4,5,6
GH-2	UNFINISHED MEZZANINE	NATURAL GAS	14	60	20	NOTE 5	120-1	EC	50	REZNOR	VPS	1,2,3,4,5,6
GH-3	APPARATUS BAY	NATURAL GAS	14	60	20	NOTE 5	120-1	EC	50	REZNOR	VPS	1,2,3,4,5,6
GH-4	APPARATUS BAY	NATURAL GAS	14	60	20	NOTE 5	120-1	EC	50	REZNOR	VPS	1,2,3,4,5,6

NOTES:
1. REFER TO SPECIFICATION SECTION 23 80 00 FOR ADDITIONAL INFORMATION.
2. PROVIDE WITH GAS PRESSURE REDUCING VALVE IF LISTED. INCOMING GAS PRESSURE IS ABOVE THE MAX. ALLOWED GAS PRESSURE BY THE MANUFACTURER. ROUTE GAS PRESSURE REDUCING VALVE VENT TO THE EXTERIOR. COORDINATE EXACT SIZE AND ROUTING WITH THE GAS PRESSURE REDUCING VALVE MANUFACTURER.
3. PROVIDE WITH KIT TO ALLOW COMBUSTION AIR TO BE CONNECTED DIRECTLY TO THE COMBUSTION CHAMBER.
EXACT MATERIAL OF INTAKE PIPING AS WELL AS SIZE AND ROUTING SHALL BE PER MANUFACTURER.
4. EXACT MATERIAL OF FLUE PIPING AS WELL AS SIZE AND ROUTING SHALL BE PER MANUFACTURER.
5. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT.
6. PROVIDE WITH INTEGRAL TRANSFORMER AND WIRING FOR CONTROLS.

ELECTRIC DUCT HEATERS													
MARK	SERVICE	LOCATION	TYPE	DUCT DIM. W X H	CFM	KW	CONTROL	E.A.T. °F	L.A.T. °F	STATIC PRESS. LOSS I.W.C.	ELECTRICAL DATA	BASIS OF DESIGN	NOTES
EDH-1	TEMPERED AIR	APPARATUS BAY	FINNED TUBULAR	12 X 12	550	10	PROPORTIONAL	8	68	0.2	460	3	DIV. 26

NOTES:
1. PROVIDE INDEECO CONTROL OPTION K, 135 OHM INPUT WITH DUAL TEMPERATURE SENSORS FOR HEATER INLET AND OUTLET. TEMPERATURE SENSORS AND CONTROLLER TO CONTROL OPERATION OF HEATER BASED ON OUTSIDE/INLET AIR AND DISCHARGE AIR TEMPERATURES. WHEN OUTSIDE AIR IS BELOW 60° F (ADJ.), AND FAN IS RUNNING, DISCHARGE AIR TEMPERATURE SHALL BE 65° F (ADJ.).

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MAKE-UP AIR UNIT SCHEDULE (DIRECT GAS-FIRED)

MARK	SERVING	MFR.	MODEL	FAN				HEATING SECTION					NOTES	
				CFM	ESP (IN.W.C.)	MOTOR HP	ELEC. VOLTS/PH	FUEL	INPUT (MBH)	OUTPUT MIN. (MBH)	MIN.-MAX. GAS PRESS. (IN.W.C.)	EAT (F)	LAT (F)	
MAU-1	VEHICLE STORAGE - N	TRANE	DFIA2181FH	15,000	2.5	(2) 15	460/3	G	1100	1100	7-14	15.9	75.6	1, 2, 3, 4
MAU-2	VEHICLE STORAGE - S	TRANE	DFIA2181FH	15,000	2.5	(2) 15	460/3	G	1100	1100	7-14	15.9	75.6	1, 2, 3, 4
MAU-3	VEHICLE MAINT. - N	TRANE	DFIA2181FH	15,045	2.5	(2) 15	460/3	G	1100	1100	7-14	15.9	75.6	1, 2, 3, 4
MAU-4	VEHICLE MAINT. - S	TRANE	DFIA2181FH	13,755	2.5	(2) 15	460/3	G	1100	1100	7-14	15.9	75.6	1, 2, 3, 4
MAU-5	TOOL CRIB, WAREHOUSE	TRANE	DFIA1181FH	1600	2.5	7.5	460/3	G	140	140	7-14	15.9	75.6	1, 3, 4

1. PROVIDE WITH INLET MOTOR-OPERATED DAMPER, AND V-BANK FILTER SECTION FOR MERV-11 (60-65%) FILTERS.
2. PROVIDE WITH VFD MOTOR CONTROL.
3. PROVIDE WITH INTEGRAL SMOKE DETECTOR DOWNSTREAM OF FILTER BANK.
4. PROVIDE WITH INTEGRAL SMOKE DETECTOR.

FAN SCHEDULE

MARK	SERVING	MFR.	MODEL	TYPE	CFM	S.P. (IN.W.C.)	RPM	DRIVE	ELECTRICAL		OPER WT (LBS)	NOTES
									HP (W)	V/PH		
EF-1	VEH. STOR - N	COOK	245QMXU	MIXED FLOW	15,000	4.0	1736	BELT	20	460/3	1570	1, 2
EF-2	VEH. STOR - S	COOK	245QMXU	MIXED FLOW	15,000	4.0	1736	BELT	20	460/3	1570	1, 2
EF-3	KH-1	NOTE 3	DU33-HFA	GREASE FAN	525	0.851	1434	DIRECT	1/3	115/1	75	1, 5
EF-4	SALT STOR M-01	COOK	70ACWD	WALL	95	0.25	1700	DIRECT	1/20	115/1	30	4
EF-5	SAND STOR M-02	COOK	70ACWD	WALL	90	0.25	1700	DIRECT	1/20	115/1	30	4
EF-6	DE-ICER M-03	COOK	70ACWD	WALL	70	0.25	1700	DIRECT	1/25	115/1	30	4
EF-7	PAINT STRIPING M-04	COOK	70ACWD	WALL	60	0.25	1700	DIRECT	1/25	115/1	30	4
EF-8	TECH MAINT M-06	COOK	70ACWD	WALL	35	0.25	1700	DIRECT	1/25	115/1	30	4
EF-9	PAINT M-05	COOK	70ACWD	WALL	40	0.25	956	DIRECT	1/25	115/1	30	4
EF-10	FIELD MAINT M-07	COOK	70ACWD	WALL	50	0.25	956	DIRECT	1/25	115/1	30	4
EF-11	BLDG MATS M-08	COOK	70ACWD	WALL	55	0.25	956	DIRECT	1/25	115/1	30	4
EF-12	VEH. MAINT - N	COOK	225QMXU	MIXED FLOW	13,415	4.0	1914	BELT	15	460/3	1200	1, 2
EF-13	VEH. MAINT - S	COOK	225QMXU	MIXED FLOW	14,335	4.0	1914	BELT	15	460/3	1200	1, 2
EF-14	GEN EXH - SHOPS	COOK	100C3B	ROOF	810	0.75	1964	BELT	1/3	115/1	50	1
EF-15	CARPENTRY VM-14	COOK	90R15DL	ROOF	300	0.75	1700	DIRECT	1/4	115/1	50	4
EF-16	TOOL CRIB, WAREHOUSE	COOK	365ACRUB	ROOF	1355	3.0	971	BELT	7.5	460/3	505	1
EF-17	GEN EXH - SUPPORT	COOK	100C3B	ROOF	930	0.75	1964	BELT	1/3	115/1	50	1
EF-18	LUBE/COMPRESSOR	COOK	195C9B	ROOF	5500	0.75	1312	BELT	2	460/3	250	1, 6

1. PROVIDE WITH SLOPED ROOF CURB FOR STANDING SEAM METAL ROOF WITH 14" MINIMUM HEIGHT ABOVE ROOF AND DISCONNECT SWITCH.
2. PROVIDE WITH VFD MOTOR CONTROL.
3. FAN PROVIDED BY KITCHEN HOOD VENDOR. REFER TO SPEC SECTION 23 38 13.
4. PROVIDE WITH RHEOSTAT.
5. PROVIDE WITH VENTILATED EXTENDED CURB TO MEET REQUIREMENTS FOR KITCHEN HOOD.
6. CONTROLLED BY WALL THERMOSTAT.

CONDENSING UNIT SCHEDULE

MARK	SERVING	MFR.	MODEL	COOLING		AMBIENT		HEATING CAP MBH	CONDENSER FANS			UNIT		REFR R-	ELEC				WT (LBS)	NOTES
				CAP MBH	STEPS %	DES °F	MIN °F		QTY	CFM	HP EA	EER	COP		V/PH	FLA (RUN AMPS)	MCA (A)	MFS (A)		
CU-1	VRF SYSTEM #1	DAIKIN	RXYMQ36PVJU	33.2	(NOTE 1)	95	-2	36.0	-	-	-	11.5	2.8	410A	208/1	18.2	27	30A	310	1, 3, 5 - HEAT PUMP
CU-2	VRF SYSTEM #2	DAIKIN	REYQ216PBJT	209.9	(NOTE 1)	95	-2	107.5	-	-	-	10.7	3.6	410A	208/3	-	-	-	-	1, 3, 5 - HEAT RECOVERY
CU-2A	"	DAIKIN	REMQ120PB7J	-	-	-	-	-	-	-	-	-	-	-	-	29	41.3	60A	573	
CU-2B	"	DAIKIN	REMQ96PB7J	-	-	-	-	-	-	-	-	-	-	-	-	24.6	36.1	50A	560	
CU-3	CRU-1	COMPU-AIRE	PFCU-334	35.2	(NOTE 2)	95	-2	(NOTE 5)	1	1980	0.80	.	.	407C	460/3	7.8	9.8	15A	240	2, 4, 5
CU-4	CRU-2	COMPU-AIRE	PFCU-1.534	18.2	(NOTE 2)	95	-2	(NOTE 5)	1	1420	0.80	.	.	407C	460/3	6.0	7.5	15A	325	2, 4, 5

1. PROVIDE WITH INVERTER SCROLL COMPRESSOR(S).
3. PROVIDE i-TOUCH MANAGER CONTROL PANEL, ONE PANEL FOR FACILITY.
5. NON-DUCTED.
2. PROVIDE WITH SCROLL COMPRESSOR.
4. PROVIDE REMOTE ADVANCED MICROPROCESSOR SYSTEM 2200-35 CONTROL PANEL.

COMPUTER ROOM UNIT SCHEDULE

MARK	SERVING	MANUFACTURER	MODEL	COOLING				FAN			REFRIGERANT	ELECTRICAL				EER	OPER. WEIGHT (LBS.)	NOTES
				TOTAL MBH	SENSIBLE MBH	EAT DB (°F)	EAT WB (°F)	ROOM DESIGN (°F-DB)	CFM	HP	S.P. (IN.W.C.)	VOLTS/PH	FLA (A)	MCA (A)	MFS (A)			
CRU-1</																		

NO.	DESCRIPTION	DATE
0	ISSUED FOR BID	04/16/2014
1	ADDENDUM NO.2	05/09/2014
2	RFI 114	05/19/2015

Snow Removal Equipment (SRE)
and Maintenance Building
BLUE GRASS AIRPORT

BGA #1206

AIP NO. - 3-21-0028-65

VRF FAN COIL UNIT SCHEDULE

PLAN MARK	AREA SERVED	BASIS-OF-DESIGN DAIKIN MODEL NO.	COOLING (NOTE 5)			HEATING (NOTE 6)		DAIKIN NOMINAL AIRFLOW CFM	ELECTRICAL			DAIKIN WxHxD (IN.)	REFRIG. R-	DAIKIN WEIGHT (LBS)	NOTES
			DAIKIN EAT-F DB/DB	MIN. REQD TOTAL COOLING BTU/h	MIN. REQD SENSIBLE COOLING BTU/h	DAIKIN EAT-F	MIN. REQD HEATING CAPACITY BTU/h		DAIKIN MCA A	DAIKIN FUSE A					
FCU-1	CARPENTRY SHOP VM-14	FXFQ09PVJU	78.0/64.5	4106	3706	72	839	460	208/1	0.3	15	33.1x9.7x33.1	410A	55	1, 4, 7
FCU-2	GEN. MAINT. SHOP VM-13	FXMQ07PVJU	78.0/64.5	4659	3859	72	922	318	208/1	0.6	15	21.7x11.8x27.6	410A	55	2, 4, 7, 9
FCU-3	ELECTRONICS SHOP VM-09	FXFQ09PVJU	78.0/64.5	3906	3506	72	1199	460	208/1	0.3	15	33.1x9.7x33.1	410A	55	1, 4, 7
FCU-4	KEY SHOP M-10	FXMQ07PVJU	78.0/64.5	1809	1609	72	340	318	208/1	0.6	15	21.7x11.8x27.6	410A	55	2, 4, 7, 9
FCU-5	MUD ROOM S-19	FXZQ07MVJU9	78.0/64.5	1777	1377	72	3235	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-6	LAUNDRY S-20	FXMQ07PVJU	78.0/64.5	2202	2202	72	2295	318	208/1	0.6	15	21.7x11.8x27.6	410A	55	2, 4, 8, 9
FCU-7	W. LOCKER S-18	FXZQ07MVJU9	78.0/64.5	816	816	72	617	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-8	M. LOCKER S-17	FXFQ09PVJU	78.0/64.5	1857	1857	72	1419	460	208/1	0.3	15	33.1x9.7x33.1	410A	55	1, 4, 8
FCU-9	CORRIDOR S-C5	FXZQ07MVJU9	78.0/64.5	2588	2588	72	2687	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-10	BUNK 01 S-14	FXZQ07MVJU9	78.0/64.5	3005	2205	72	1215	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-11	BUNK 02 S-13	FXZQ07MVJU9	78.0/64.5	3095	2295	72	859	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-12	BUNK 03 S-11	FXMQ07PVJU	78.0/64.5	4047	3247	72	843	318	208/1	0.6	15	21.7x11.8x27.6	410A	55	2, 4, 8, 9
FCU-13	WAREHOUSE OFFICE S-25	FXZQ07MVJU9	78.0/64.5	1944	1744	72	681	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-14	CORRIDORS S-C4, C2	FXZQ07MVJU9	78.0/64.5	3010	2583	72	750	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-15	MAINT. SUPV. S-65	FXZQ07MVJU9	78.0/64.5	2045	1845	72	740	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-16	GEN. MAINT. SUPV. S-04	FXZQ07MVJU9	78.0/64.5	2672	2472	72	1374	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-17	TECH. MAINT. SUPV. S-03	FXZQ07MVJU9	78.0/64.5	1953	1753	72	650	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-18	FUEL CONTROL S-02	FXZQ07MVJU9	78.0/64.5	1751	1551	72	709	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-19	COPY S-06	FXZQ15MVJU9	78.0/64.5	7638	7638	72	1530	388	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8
FCU-20	CONFERENCE S-07	FXMQ09PVJU	78.0/64.5	7432	4832	72	1075	318	208/1	0.6	15	21.7x11.8x27.6	410A	55	2, 4, 8, 9
FCU-21	KITCHEN S-28	FXMQ48PVJU	78.0/64.5	35,401	34,288	72	6180	1000	208/1	1.34	15	55.1x11.8x27.6	410A	101	2, 4, 8, 9
FCU-22	W. BREAK/TRAINING S-29	FXMQ24PVJU	78.0/64.5	16,681	12,681	72	5064	689	208/1	1.8	15	39.4x11.8x27.6	410A	79	2, 4, 8, 9
FCU-23	E. BREAK/TRAINING S-29	FXMQ18PVJU	78.0/64.5	13,606	5106	72	4448	530	208/1	1.6	15	39.4x11.8x27.6	410A	79	2, 4, 8, 9
FCU-24	LOBBY S-01	FXMQ07PVJU	78.0/64.5	3479	3479	72	1452	318	208/1	0.6	15	21.7x11.8x27.6	410A	55	2, 4, 8, 9
FCU-25	VM OFFICE VM-26	FXZQ07MVJU9	78.0/64.5	5818	5218	72	3220	320	208/1	0.8	15	22.6x11.3x22.6	410A	42	3, 4, 8

1. ROUND FLOW CEILING MOUNTED CASSETTE (3'x3').
2. CONCEALED DUCTED UNIT (MEDIUM STATIC).
3. 4-WAY DISCHARGE CEILING MOUNTED CASSETTE (2'x2').
4. PROVIDE WITH CONDENSATE LIFT PUMP.
5. SUMMER INDOOR DESIGN = 75°F-DB / 60%RH MAX.
6. WINTER INDOOR DESIGN = 70°F.
7. VRF SYSTEM #1
8. VRF SYSTEM #2

VRF BRANCH SELECTOR BOX SCHEDULE

PLAN MARK	BASIS-OF-DESIGN DAIKIN MODEL NO.	FCU SERVED	ELECTRICAL			WxHxD IN.	WEIGHT LBS.	NOTES
			POWER V/PH	MCA A	MFS A			
BS-1	BSV6Q36PVJU	FCU-15-19,24	208/1	0.6	15	62.1x8.3x25.0	196	1
BS-2	BSV4Q36PVJU	FCU-10-12,14	208/1	0.4	15	41.5x8.3x25.0	132	2
BS-3	BSVQ36PVJU	FCU-13	208/1	0.1	15	15.3x8.1x12.8	26	3
BS-4	BSV60PVJU	FCU-21	208/1	0.1	15	15.3x8.1x12.8	26	3
BS-5	BSVQ36PVJU	FCU-22	208/1	0.1	15	15.3x8.1x12.8	26	3
BS-6	BSVQ36PVJU	FCU-23	208/1	0.1	15	15.3x8.1x12.8	26	3
BS-7	BSVQ36PVJU	FCU-20	208/1	0.1	15	15.3x8.1x12.8	26	3
BS-8	BSVQ36PVJU	FCU-25	208/1	0.1	15	15.3x8.1x12.8	26	3
BS-9	BSVQ36PVJU	FCU-5	208/1	0.1	15	15.3x8.1x12.8	26	3
BS-10	BSVQ36PVJU	FCU-6	208/1	0.1	15	15.3x8.1x12.8	26	

DEDICATED OUTDOOR AIR HANDLING UNIT SCHEDULE

MARK	BASIS OF DESIGN MFR.	MODEL 1	SERVING	CFM	SUPPLY FAN				AMBIENT TEMP. (°F)	DX COOLING COIL								HEATING SECTION						ELECTRICAL				EER	WEIGHT (LBS.)	NOTES						
					T.S.P. (IN.W.C.)	E.S.P. (IN.W.C.)	RPM	MOTOR		EAT DB (F)	COIL LAT DB (F)	COIL LAT WB (F)	HG REHEAT LAT DB (F)	HG REHEAT LAT WB (F)	APD (IN.W.C)	REFRIG. R-	FUEL	INPUT MBH	OUTPUT MBH	MIN.-MAX. GAS PRESS. (IN.W.C.)	EAT (F)	LAT (F)	SECTION APD (IN.W.C)	V/PH	FLA	MCA	MFS	COOLING WATTS								
								HP	VOLTS/PH		TOTAL COOLING MBH	SENSIBLE COOLING MBH	FACE VEL. (FPM)																							
AHU-1	TRANE	OALITE-L108	VRF SYSTEM #1	2375	2.43	1.5	2495	2.5	460/3	90	115.2	77.6	417	89.3	73.6	59.9	59.9	73	64.52	.40	410A	NG	200	160	7-14	15.9	84	0.13	460/3	25.7	30.5	45A	9891	11.1	1600	1, 2, 3
AHU-2	TRANE	OALITE-L060	VRF SYSTEM #2	1230	1.92	1.5	1836	2.5	460/3	90	69.4	42.7	294	89.3	73.6	58.6	58.6	73	62.73	.17	410A	NG	100	80	7-14	15.9	84	0.11	460/3	16.3	18.7	25A	4990	13.5	1500	1, 2, 3

1. UNIT SHALL BE INSTALLED ON (2) W6x20 RAILS AND SEISMIC VIBRATION SPRINGS PER DELEGATED DESIGN.
2. PROVIDE WITH INTEGRAL SMOKE DETECTOR.
3. TEMPERED AIR LAT FROM UNIT SHALL BE 75°F-DB FOR COOLING AND 70°F-DB FOR HEATING. 1

**PARSONS
BRINCKERHOFF**

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HANSON

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649 Charity Court, Office 14 Frankfort, KY 40601
Phone: 502.226.1110 | www.hanson-inc.com

NO.	DESCRIPTION	DATE
0	ISSUED FOR BID	04/16/2014
1	ADDENDUM NO. 2	05/09/2014

Blue Grass Airport
LEXINGTON, KENTUCKY

Blue Grass Airport
4000 Terminal Drive, Suite 206
Lexington, Kentucky 40510

**Snow Removal Equipment (SRE)
and Maintenance Building
BLUE GRASS AIRPORT**
BGA #1206
AIP NO. - 3-21-0028-65

Maintenance Telecom Served by CRU-2/CU-4 with OA from AHU-1 (DOAS)

Maintenance Telecom - Air Balance Schedule				
Room No.	Room Name	Outdoor Air CFM	Exhaust Air CFM	Notes
VM-07	Telecom	20	0	[1]

Notes for Maintenance Telecom Air Balance:

[1] Air Balance by exfiltration to Corridor.

Maintenance Telecom - Pressurization Schedule								
Room No.	Room Name	Pressure Relationship to Adjacent Areas	Required OA CFM	OA Code Reference	Required Exhaust Air CFM	Exhaust Air Code Reference	All Air Exhausted Directly Outdoors	Notes
VM-07	Telecom	Positive	20	(1)	0	--	No	Notes

Notes for Maintenance Telecom Pressurization:

(1) ASHRAE 62.1-2007 with 20 CFM minimum.

Maintenance Shops Served by VRF System #1 with Tempered OA from AHU-1 (DOAS) and Exhausted by EF-14 & 15

Maintenance Shops - Air Balance Schedule				
Room No.	Room Name	Outdoor Air CFM	Exhaust Air CFM	Notes
VM-08	Toilet	0	50	[2]
VM-09	Electronics Shop	365	305	[1]
VM-10	Key Shop	220	170	[1]
VM-13	General Maintenance Shop	285	235	[1]
VM-14	Carpentry Shop	300	300	--
VM-C1	Corridor	50	0	[3]
VM-28	Vehicle Maintenance Office	30	0	[1]

Notes for Maintenance Shops Air Balance:

[1] Air Balance by exfiltration to Corridor or adjacent un-airconditioned space.

[2] Air Balance by infiltration from the Corridor.

[3] Air Balance by exfiltration to outdoors.

Maintenance Shops - Pressurization Schedule								
Room No.	Room Name	Pressure Relationship to Adjacent Areas	Required OA CFM	OA Code Reference	Required Exhaust Air CFM	Exhaust Air Code Reference	All Air Exhausted Directly Outdoors	Notes
VM-08	Toilet	Negative	0	(1)	50	(1)	Yes	Notes
VM-09	Electronics Shop	Positive	169	(1)	304	(1)	No	
VM-10	Key Shop	Positive	70	(1)	168	(1)	No	
VM-13	General Maintenance Shop	Positive	124	(1)	232	(1)	No	
VM-14	Carpentry Shop	Equal	126	(1)	296	(1)	Yes	
VM-C1	Corridor	Positive	16	(1)	0	NA	No	(2)
VM-28	Vehicle Maintenance Office	Positive	29	(1)	0	NA	No	

Notes for Maintenance Shops Pressurization:

(1) 2012 IMC

(2) Pressure relationship is positive to outdoors and positive to adjacent un-airconditioning space.

Vehicle Storage Area - Air Balance Schedule				
Room No.	Room Name	Outdoor Air CFM	Exhaust Air CFM	Notes
VS-01	Drive Aisle	15,000	14,960	[1]
VS-02	X-Long	937.5	2,350	[1]
VS-03	X-Long	1,875	1,410	[1]
VS-04	X-Long	1,875	940	[1]
VS-05	X-Wide	1,875	940	[1]
VS-06	X-Wide	937.5	1,880	[1]
VS-07	X-Wide	937.5	1,880	[1]
VS-08	X-Wide	1,875	940	[1]
VS-09	X-Wide	1,875	1,880	[1]
VS-10	X-Long	1,875	470	[1]
VS-11	X-Long	937.5	2,350	[1]
		Total OA CFM	30,000	Total Exhaust CFM

Notes for Vehicle Storage Air Balance:

[1] Entire area is one single room. Air Balance noted in

Total CFM at bottom of Air Balance Schedule.

**Blue Grass Airport Regional
Training Center Modernization**
4832 Versailles Road
Lexington, KY 40510

NO. 1 DATE 11/20/2024 BIDPERMIT
2 12-23-2024 FOR CONSTRUCTION SET

SPLIT SYSTEM DX UNIT SCHEDULE																		
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	MAXIMUM COOLING CAPACITY (BTUH)	MINIMUM COOLING CAPACITY (BTUH)	RATED HEATING CAPACITY @ 47°F (BTUH)	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	EXTERNAL STATIC PRESSURE (IN WG)	OUTDOOR UNIT ELECTRICAL DATA					COP @ 47°F	SEER2	OPERATING WEIGHT (LBS)	REMARKS
										MCA	MOCP	VOLTAGE	PHASE	Hz				
FCU-1	CARRIER	40MBDQ24	DUCTED UNIT	24000.0	6500.0	25000	770	185	0.50						3.3	19.2	120	1, 2, 3, 4, 5, 6, 7, 8
HP-1	CARRIER	38MARBQ24AA3								25 A	35 A	208 V	1	60 Hz			135	1, 2, 3, 4, 5, 6, 7

1. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
2. PROVIDE WITH LOW AMBIENT PACKAGE.
3. MOUNT UNIT REMOTE CONTROL TO WALL.
4. PROVIDE WITH INSULATED REFRIGERANT LINESET (SIZED PER MANUFACTURERS RECOMMENDATION).
5. PROVIDE WITH LOW SOUND FANS AND DIGITAL COMPRESSORS.
6. PROVIDE UNIT WITH SEVEN DAY PROGRAMMABLE THERMOSTAT WITH MANUAL CHANGEOVER, FAN SPEED CONTROL, AND OCCUPIED/UNOCCUPIED MODE. UNIT SHALL BE CAPABLE OF AUTOMATIC START CAPABILITIES AND HAVE A 5°F DEADBAND.
7. R-454B REFRIGERANT.
8. PROVIDE WITH MERV 8 FILTER.

FAN SCHEDULE												
MARK	MANUFACTURER	MODEL NUMBER	TYPE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE DROP (IN WG)	ELECTRICAL DATA				OPERATING WEIGHT (LBS)	REMARKS	
						HP	VOLTAGE	PHASE	Hz			
CF-1	EPIC FANS	COLOSSUS	8' HVLS FAN			0	208 V	1	60 Hz	34	1	
CF-2	EPIC FANS	COLOSSUS	8' HVLS FAN			0	208 V	1	60 Hz	34	1	
EF-1	GREENHECK	G-095-VG	CENTRIFUGAL DIRECT DRIVE	615 CFM	0.50 in-wg	0.137	115 V	1	60 Hz	72	1, 2, 3, 4, 5, 7	
EF-2	GREENHECK	GB-160	CENTRIFUGAL DIRECT DRIVE	1560 CFM	0.50 in-wg	0.299	115 V	1	60 Hz	81	1, 2, 3, 4	
EF-3	GREENHECK	SQ-70-VG	INLINE DIRECT DRIVE	110 CFM	0.25 in-wg	0.007	115 V	1	60 Hz	27	1, 2, 4, 7	
EF-4	GREENHECK	GB-130	CENTRIFUGAL DIRECT DRIVE	1135 CFM	0.50 in-wg	0.225	115 V	1	60 Hz	71	1, 2, 3, 4, 7	
EF-5	GREENHECK	SP-A90	CEILING DIRECT DRIVE	75 CFM	0.25 in-wg		115 V	1	60 Hz	18	1, 2, 4, 6, 8	

1. PROVIDE WITH INTEGRAL DISCONNECT.
2. PROVIDE WITH ECM MOTOR.
3. PROVIDE WITH WEATHERTIGHT 18" ROOF CURB, INTEGRAL BIRDSCREEN, AND BACKDRAFT DAMPER.
4. PROVIDE WITH FLEXIBLE CONNECTORS.
5. MOUNT ON EXISTING CURB. PROVIDE NEW CURB ADAPTER, BIRDSCREEN, AND BACKDRAFT DAMPER.
6. CONTROLLED BY OCCUPANCY SENSOR. PROVIDE WITH ALUMINUM OR STEEL GRILLE.
7. PROVIDE MANUAL OVERRIDE SWITCH WITH LOCKABLE COVER.
8. PROVIDE WITH WHITE ALUMINUM OR STEEL GRILLE, INTEGRAL BACKDRAFT DAMPER, AND ISOLATOR KIT.

UNIT HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL NUMBER	HEATING CAPACITY (MBH)	NOMINAL AIRFLOW (CFM)	ELECTRICAL DATA					REMARKS
					HP	AMPS	VOLTAGE	PHASE	Hz	
UH-1	REZNOR	UBXC	30.0	506 CFM	0.167	3.7 A	115 V	1	60 Hz	1
UH-2	REZNOR	UBXC	30.0	506 CFM	0.167	3.7 A	115 V	1	60 Hz	1
UH-3	REZNOR	UBXC	30.0	506 CFM	0.167	3.7 A	115 V	1	60 Hz	1
UH-4	REZNOR	UDXC	30.0	456 CFM	0.06	1.9 A	115 V	1	60 Hz	1
UH-5	REZNOR	UDXC	30.0	456 CFM	0.06	1.9 A	115 V	1	60 Hz	1

1. PROPANE FIRED.

ELECTRIC UNIT HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (W)	NOMINAL AIRFLOW (CFM)	TEMPERATURE DROP (F)	ELECTRICAL DATA				REMARKS
						AMPS	VOLTAGE	PHASE	Hz	
EUH-1	MARLEY	EFF1500	1500 W	150 CFM	50 °F	12.5 A	120 V	1	60 Hz	1, 2, 3

1. DISCONNECT PROVIDED BY ELECTRICAL.
2. INTEGRAL THERMOSTAT.
3. PROVIDE WITH TOTALLY ENCLOSED MOTOR.

LOUVER SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	SERVES	SYSTEM TYPE	SIZE (W x H)	AIRFLOW (CFM)	MAX. SP. (IN. WG.)	MIN. FREE AREA (FT2)	REMARKS
L-1	GREENHECK	ESD-435	APPARATUS BAY	OUTSIDE AIR	24X24	1560	0.22	1.81	1, 2, 3
L-2	GREENHECK	ESD-435	EF-3	EXHAUST AIR	12X12	110	0.01	0.3	1, 2, 3

1. PROVIDE WITH INSECT SCREEN.
2. DRAINABLE BLADE AND WEATHER RESISTANT TYPE.
3. COLOR TO MATCH EXTERIOR WALL. COORDINATED WITH ARCHITECTURAL.

MAKEUP AIR UNIT SCHEDULE																
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	AIRFLOW (CFM)	ESP/TOTAL SP (IN. WG.)	HP	ELECTRICAL DATA				PROPANE HEATING CAPACITY					
							MCA	MOCP	VOLTAGE	PHASE	AIR TEMP (°F)	CAPACITY INPUT (MBH)	CAPACITY OUTPUT (MBH)			
MAU-1	GREENHECK	DGX-P116-H12-D1	ROOF	1135 CFM	0.75	0.5	5.1 A	15 A	208 V	3	60 Hz	13.3	70.0	80.0	73.5	1, 2, 3, 4, 5

1. UNIT MOUNTED DISCONNECT.
2. PROVIDE WITH SINGLE POINT POWER CONNECTION.
3. PROVIDE WITH WEATHERTIGHT 18" PRE-FABRIC

**Blue Grass Airport Regional
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4832 Versailles Road
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NO. DATE DESCRIPTION
1 11/20/2024 BIDPERMIT
2 12/23/2024 FOR CONSTRUCTION SET
3 05/22/2025 RFI 20
4 08/20/2025 RFI 26

ROOFTOP UNIT SCHEDULE																						
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	AIRFLOW (CFM)	ESP/TOTAL SP (IN. WG.)	BHP	ELECTRICAL DATA					PROPANE HEATING CAPACITY				DX COOLING COIL DATA					REMARKS	
							MCA	MOCP	VOLTAGE	PHASE	Hz	AIR TEMP	CAPACITY INPUT (MBH)	CAPACITY OUTPUT (MBH)	AIR TEMP	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	NET SENSIBLE CAP (MBH)	NET TOTAL CAP (MBH)	
RTU-1	CARRIER	48FESB06A3M5-3W2T0	LOW ROOF	1700 CFM	0.5	1.16	34.0 A	45 A	208 V	3	60 Hz	70.0	95.0	67.0	54	80.0	67	59.3	57.7	44.7	59.3	1, 2, 3, 4, 5, 6
RTU-2	CARRIER	48FESB05A3M5-3W2T0	HIGH ROOF	1500 CFM	0.5	0.75	29.0 A	40 A	208 V	3	60 Hz	70.0	101.3	67.0	54	80.0	67	60.2	57.5	34.3	48.4	1, 2, 3, 4, 5, 6

1. PART OF ADD ALTERNATE #1. REFER TO BID INSTRUCTIONS FOR MORE INFORMATION.
2. PROVIDE WITH NEW CURB ADAPTER.
3. PROVIDE WITH PROPANE ACCESSORY KIT.
4. PROVIDE WITH HOT GAS REHEAT.
5. AIRFLOWS TAKEN FROM EXISTING DRAWINGS.
6. PROVIDE WITH STICKER STATING RTU RUNS ON PROPANE.

GRILLE, REGISTER, & DIFFUSER SCHEDULE																			
MARK	MANUFACTURER	MODEL	DESCRIPTION										NECK SIZE (IN)	MODULE SIZE (IN)	DESIGN AIRFLOW (CFM)	MAX. TOTAL PRESSURE DROP AT DESIGN AIRFLOW (IN WG)	FINISH	MATERIAL	REMARKS
CD-1	TITUS	TMS	3 CONE, SQUARE PANEL										6"	12" x 12"	150 CFM	0.073	WHITE	ALUMINUM	1
CD-2	TITUS	TMS	3 CONE, SQUARE PANEL										6"	24" x 24"	150 CFM	0.063	WHITE	ALUMINUM	1
CD-3	TITUS	TMS	3 CONE, SQUARE PANEL										8"	24" x 24"	300 CFM	0.101	WHITE	ALUMINUM	1
CD-4	TITUS	TMS	3 CONE, SQUARE PANEL										10"	24" x 24"	540 CFM	0.103	WHITE	ALUMINUM	1
EG-1	TITUS	50F	EGGCRATE GRILLE WITH 1/2" x 1/2" x 1/2" CORE										10" x 10"	12" x 12"	500 CFM	0.053	WHITE	ALUMINUM	1
RG-1	TITUS	50F	EGGCRATE GRILLE WITH 1/2" x 1/2" x 1/2" CORE										22" x 10"	24" x 12"	1050 CFM	0.053	WHITE	ALUMINUM	1
RG-2	TITUS	50F	EGGCRATE GRILLE WITH 1/2" x 1/2" x 1/2" CORE										22" x 22"	24" x 24"	2250 CFM	0.053	WHITE	ALUMINUM	1
SG-1	TITUS	301RL	SINGLE DEFLECTION, 3/4" BLADE SPACING, SIDE GRILLE										12" x 8"	14" x 10"	320 CFM	0.080	WHITE	ALUMINUM	
TG-1	TITUS	50F	EGGCRATE GRILLE WITH 1/2" x 1/2" x 1/2" CORE										10" x 10"	12" x 12"	350 CFM	0.024	WHITE	ALUMINUM	1

1. REFER TO REFLECTED CEILING PLAN FOR EXACT LOCATION.

SOUND ATTENUATOR SCHEDULE														REMARKS				
MARK	MANUFACTURER	MODEL NUMBER	SERVES	SYSTEM TYPE	GEOMETRY	SIZE W X H (IN)	LENGTH (IN)	AIRFLOW (CFM)	MAX. SP. (IN WG)	SOUND ATTENUATION								
SDA-1	PRICE	RM120/4G	RTU-1	RETURN	RECTANGULAR	19 X 19	120	1440	0.28	63 HZ	24	38	55	55	55	43	24	1

1. TYPE: ABSORPTIVE / DISSIPATIVE.

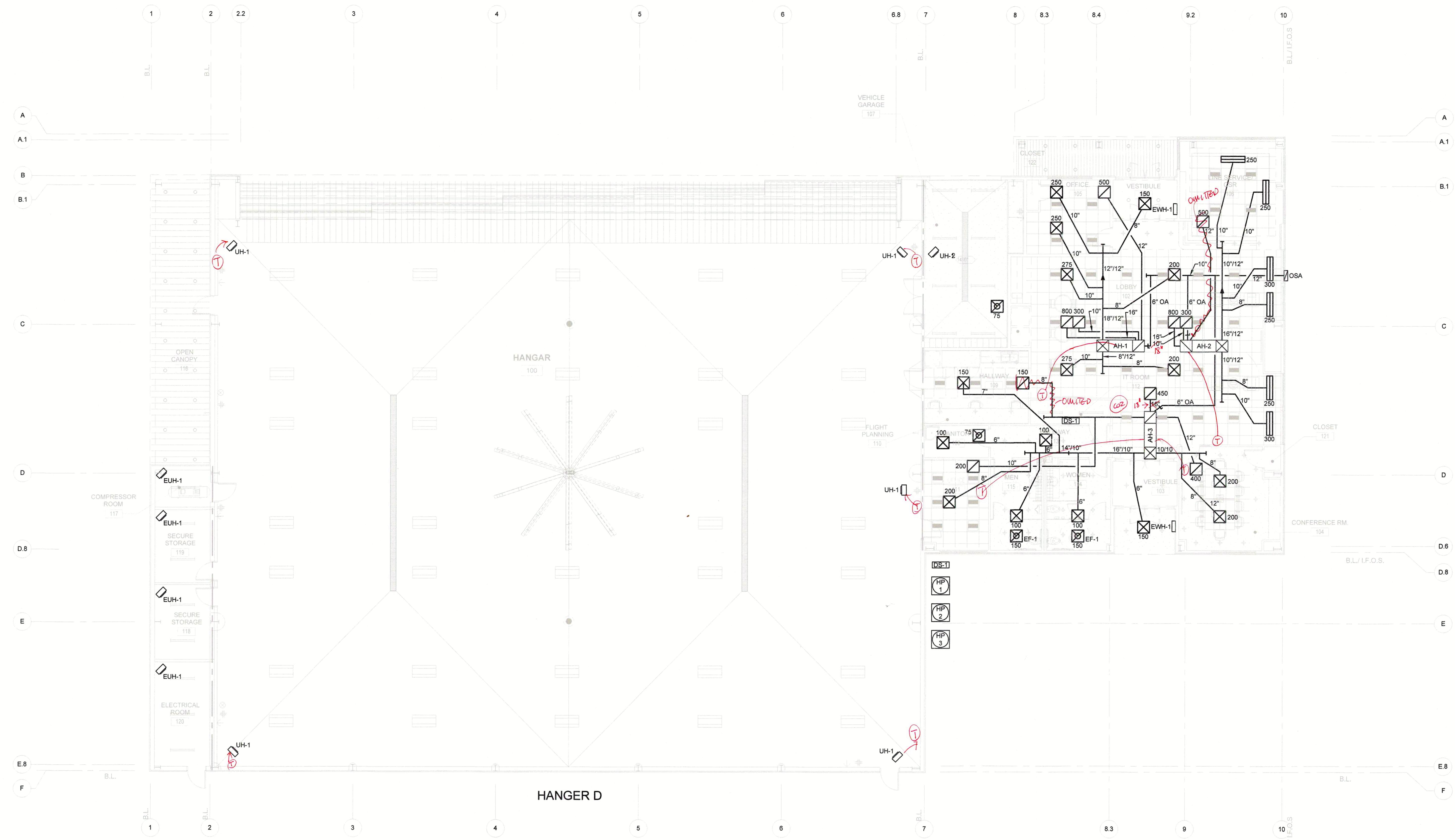
AUTOMATIC AIR DAMPER SCHEDULE						
MARK	SERVICE	SYSTEM	SIZE W X H (IN)	AIRFLOW (CFM)	REMARKS	
AAD-1	IH-1	OUTSIDE AIR	8X8	185 CFM	1	
AAD-2	L-1	OUTSIDE AIR	24X24	1560 CFM	1	
AAD-3	I-2	OUTSIDE AIR	12X12	110 CFM	1	

1. PROVIDE UNIT WITH 24 VAC EXTERNAL MOUNTED ACTUATOR. MOTORIZED DAMPER INCLUDED WITH FAN.

GRAVITY HOOD SCHEDULE									
MARK	SERVES	SYSTEM TYPE	AIRFLOW (CFM)	THROAT SIZE W X L (IN)	MAX. SP. (IN-WG.)	THROAT VELOCITY (FPM)	REMARKS		
IH-1	FCU-1	OUTSIDE AIR	185 CFM	10.5 X 10.5	0.25 in-wg	500 FPM	1		

1. PROVIDE WITH 18" ROOF CURB.

VENTILATION SCHEDULE																		
Project: ARFF Training Center Job No: 8180.00																		
Designer: CARROLL Engineer: CARROLL																		
Unit #	Room Number	Room Name	Az Area	Occupancy Classification	TBL 6-1 occ density peo/1000 sf	Pz	TBL 6-1 Rp peo oa	TBL 6-1 Ra area oa	Vbz	TBL 6-2 Ez air dist eff	Voz	req'd cfm	design cfm	%oa	system req'd	Acutal OA cfm	Exhaust cfm / sf	req'd cfm
FCU-1	116	Hallway	181	Corridors	0	0	0.06	11	0.8	14	75	150	9%	10%	14	1	185	
	117	Office	442	Office Space	5	4	5	0.06	47	0.8	59	618	620	10%	10%	59	0	0
											73	693	770				73	
MAU-1	121	SCBA Drill Room	302	Storage rooms	0	21	0	36	0.8	46	48	305	15%	100%	305	1	305	
	122	Gear Storage	637															



* Notes
 1. CO2 Detector location of sensor that controls dampers for outside air.
 2. AHU-3 (8') duct for return omitted and increased 16" to 18" to compensate.
 3. Added thermostat in Conference Room to control AHU-3.
 4. 500 CFM Return duct for service omitted and increased 10" return to 18" to compensate.
 5. Thermostat locations

HVAC NOTES

1. AIR HANDLERS TO BE HUNG FROM THE ROOF TRUSSES AND PROVIDE SPRING VIBRATION ISOLATORS WITH HANGER RODS TO STRUCTURE FOR AIR HANDLERS.
 2. ALL RETURN GRILLES TO BE LAYIN FILTER GRILLES. NO FILTERS OR FILTER RACKS TO BE IN OR AT THE AIR HANDLER LOCATION.
 3. DUCTWORK SHALL BE METAL WRAPPED WITH 1 1/2" EXTERNAL INSULATION WITH FOIL BACK.
 4. PLENUM RETURN
 5. REFRIGERATION LINES TO BE SIZED PER MANUFACTURE'S RECOMMENDATION.
 6. TRAP CONDENSATE LINES AT AHU'S. PIPE THEM SUPPORTED EVERY 6".
 7. CONDENSATE LINES TO BE RUN IN AC COPPER.
 8. PROVIDE SECONDARY DRAIN SAFETY SWITCHES.
 9. PROVIDE PROGRAMMABLE THERMOSTATS WITH AUTO CHANGEOVER.
 10. FLEXIBLE DUCTS SHALL BE METAL LOADING.
 11. THERMEX EXHAUSTVENTS SHALL BE MIN 10' FROM FRESH AIR INTAKES.
 12. GAS PIPING BY THE PLUMBER WITH DIRT LEGS AT ALL EQUIPMENT.
 13. AC LINE VOLTAGE WIRING AND DISCONNECTS BY THE ELECTRICIAN.
 14. DAMPER ALL SUPPLY AND RETURN RUNS AT TAKEOFFS TO BALANCE THE SYSTEMS.
 15. PROVIDE DUCT CONSTRUCTION AND DUCT WORK DUCTS ON AHU'S.
 16. PROVIDE MIN CLEARANCE FOR ALL HVAC EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER MAINTENANCE.
 17. PROVIDE BALANCE DAMPERS IN ALL SUPPLY AND RETURNS.
 18. PROVIDE DAMPER IN ALL AIR DEVICES WHERE DUCT DAMPERS ARE NOT SHOWN ON PLANS.
 19. PROVIDE WHITE ON RED BACKGROUND ENGRAVED PLASTIC NAMEPLATES WITH 1" LETTERING FOR ALL MECHANICAL EQUIPMENT AND THERMOSTATS.
 20. SMOKE DETECTORS TO BE INSTALLED IN ALL SYSTEMS IN EXCESS OF 2000 CFM.
 21. BACK DRAFT DAMPERS (BDD) TO BE COUNTER BALANCED.

EQUIPMENT

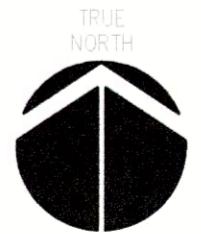
HP-1 LENNOX 4-TON 208/230V 1PH HEAT PUMP
 HP-2 LENNOX 4-TON 208/230V 3PH HEAT PUMP
 HP-3 LENNOX 3-TON 208/230V 3PH HEAT PUMP

DS-1 LENNOX 1.5-TON 208/230V 1PH DUCTLESS SPLIT
 AH-1 LENNOX 4.0 TON 208/230V 1P WITH 15kW 3 PHASE HEAT STRIP
 AH-2 LENNOX 4.0 TON 208/230V 1P WITH 15kW 3 PHASE HEAT STRIP
 AH-3 LENNOX 3.0 TON 208/230V 1P WITH 15kW 3 PHASE HEAT STRIP

DS-1 LENNOX 1.5-TON 208/230V 1PH HIGH WALL SPLIT
 UH-1 MODINE 350K/HR INPUT LP
 UH-2 MODINE 150K/HR INPUT LP
 EUH-1 Q-MARK MUH03-81 208 VOLT -10 3KW 14.5AMPS

HVAC PLAN

1/8"=1'-0"



VENTILATION CALCULATIONS

CALCULATIONS BASED ON THE 2012 MECHANICAL CODE TABLE 403

EQUIPMENT
 = (634 SQFT X 0.06 CFM/SF) + (2 PERSON/1000 SF X 5 CFM/PERSON)

= 78 CFM

BAR (FOOD & BEVERAGE SERVICE)
 = (360 SQFT X 0.18CFM/SF) + (15 PERSON/1000 SF X 7.5CFM/PERSON)

= 171 CFM

CORRIDOR (CORRIDOR)
 = (316 SQFT X 0.09CFM/SQFT)

= 19CFM

ENTRY (MAIN ENTRY LOBBIES)
 = (1123 SQFT X 0.06 CFM/SF) + 5 PERSON/1000SF X 5 CFM/PERSON

= 93CFM

= 78 CFM + 171 CFM + 19 CFM + 93 CFM

= 361CFM

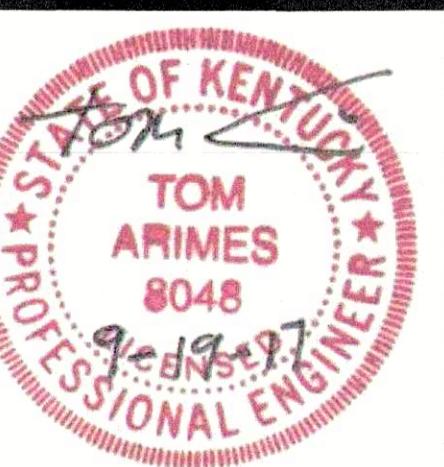
EACH UNIT IS TO PROVIDE 72.2CFM OF FRESH AIR TO THE SPACE

WestLEX HANGER FOR: WESTSIDE GENERAL AVIATION AREA

4000 TERMINAL DRIVE
 LEXINGTON, KY. 40510

C:\Users\duane\OneDrive\Private\Documents\DRAWINGS\WestLex\hanger plan - spring

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 OWNER REVIEW DOC: MAY 30, 2017
 SITE / FOUNDATION PERMIT MAY 30, 2017
 RELEASE-1 PRE CONST JUNE 23, 2017
 SITE / FDN PERMIT UPDATE JUNE 21, 2017
 ELEVATION UPDATE JULY 25, 2017
 RELOCATION DWG AUG. 3, 2017

DATE: MAY 30, 2017

COMMUNITY HANGER D
 HVAC PLAN

M1.1

PROJECT NUMBER - 2017-04