

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 |
|---------------------|----------------------------|--------------|--|
| RIK VAVENTINE | CPs | 859 494 6266 | RIK.VAVENTINE@CPSEX.COM |
| John Howard | Sunny's Plumbing Solutions | 859 619 5928 | john@sunnysmechanical.com |
| John Little | Comfort & Access Solutions | 859-953-7351 | john.little@cpsex.com |
| Danion Wibbels | Dynamic Air Solutions | 502-536-0276 | dwibbels@dynamicHVAC.com |
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| Chris Hollingsworth | TP Mechanical | 859-421-4867 | Christoph.c.Hollingsworth@TPMechanical.com |
| Anthony Apno | Perfection Group | 859-221-1642 | apno@perfectiongroup.com |
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| Ben Sills | " | 859-559-3615 | BSills@perfectiongroup.com |
| Adam Meyer | JCI | 859-333-4841 | adam.w.meyer@jci.com |
| Bradley Eichelb | JCI | 859-229-8380 | bradley.eichelb@jci.com |
| John Settle | CSUSA KY | 859-983-2440 | john.settle@comfortsystems.com |
| Jim Hoffman | CSUSA KY | 859 573 7072 | TIMOTHY.GAFFANEY@COMFORTSYSTEMS.COM |
| Ryan McWhorter | DS&A - | 859-300-1316 | RMCAHEE@DISCURE.COM |
| Rossier Vacker | DS&A | 859-551-1578 | ROSSIER-DISSER@DISCURE.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 Kitchen exhaust makeup air unit 1 | | | 1 Operational | Rooftop above kitchen | 2021 | |
| 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 | PFH037A-AH7 | 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 A1U1AI | Trane Climate Changer-12 | | | 1 Operational | Roof Top - Concourse A | 2015 | |
| 99 | HVAC-001-R-Ka | Mechanical | HVAC | Trane | RCCA1014-1EBAF A1U1AI | Trane Climate Changer-11 | | | 1 Operational | Roof Top - Concourse A | 2015 | |
| 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 | 39MW14C0112HZ22XC | S 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 | |
| 92 | HVAC-001-068c | Mechanical | HVAC | Mcquay | E791028030 | West side of Concourse B | | | 1 Operational | BoilerRoom3 | 2006 | |
| 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 Company | 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 Company | FXV-442 | Cooling Tower 1 At Bag Claim (feeds heat pumps) | | | 1 Operational | Exterior of Baggage Claim | 2008 | </ |

| VRF SYSTEM - AIR HANDLER SCHEDULE | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|---------------------------|---------------------|--------------------------|-----------------------|------------------------|-----------------|------|-----------|---------|--|--------------|-----------------------------|-------------|--------------------------------|-----------------|-------|--------------|-----------------|-------------|-------|--|
| MARK | LOCATION | SERVES | TYPE | MATCHING CONDENSING UNIT | SUPPLY AIR FLOW (CFM) | OUTSIDE AIR FLOW (CFM) | FAN MOTOR WATTS | TYPE | TOTAL MBH | SEN MBH | 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 | |
| | | | | | | | | | | | ENT. AIR TEMP. DB/WB(DEG.F) | DB/WB(DEG.F) | | | | MCA | MOCp | VOLTS/ PHASE | | | | |
| AH-1-1 | LOWER LEVEL | 007 - TRAINING ROOM | FAN COIL UNIT HORIZ | HR-1 | 335 | - | - | DX | 9.5 | 9.8 | 80/67 | 60.9/57.6 | 13.5 | 0.4 | 0.6 | 15 | 208/1 | DAIKIN | FXM012 | 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 | 60.9/57.6 | 13.5 | 0.4 | 0.6 | 15 | 208/1 | DAIKIN | FXM012 | 1,2,3,4,5 | | |
| AH-1-3 | LOWER LEVEL | 005/006 - PUBLIC RB | FAN COIL UNIT HORIZ | HR-1 | 335 | - | - | DX | 12 | 9.8 | 80/67 | 60.9/57.6 | 13.5 | 0.4 | 0.6 | 15 | 208/1 | DAIKIN | FXM012 | 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 | 60.9/57.6 | 13.5 | 0.4 | 0.6 | 15 | 208/1 | DAIKIN | FXM030 | 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 | 60.9/57.6 | 13.5 | 0.4 | 0.6 | 15 | 208/1 | DAIKIN | FXM036 | 1,2,3,4,5 | | |
| CS-1-1 | LOWER LEVEL | 008 - TRAINING STORAGE | 2X2 CASSETTE | HR-1 | 320 | 60 | - | DX | 7.5 | 5.9 | 80/67 | 60.9/57.6 | 8.7 | 0.4 | 0.8 | 15 | 208/1 | DAIKIN | FXZ007 | 1,2,3,4,5 | | |
| CS-1-2 | LOWER LEVEL | 001 - LOBBY | 2X2 CASSETTE | HR-1 | 350 | - | - | DX | 12 | 7.8 | 80/67 | 60.9/57.6 | 13.5 | N/A | 0.4 | 15 | 208/1 | DAIKIN | FXZ012 | 1,2,3,4,5 | | |
| WM-1-1 | LOWER LEVEL | 011 - ELECTRICAL EQPT | WALL MOUNTED | HR-1 | 290 | - | - | DX | 12 | 8.9 | 80/67 | 60.9/57.6 | 13.5 | N/A | 0.4 | 15 | 208/1 | DAIKIN | FXA012 | 1,2,3,4,5 | | |
| WM-1-2 | LOWER LEVEL | 011 - ELECTRICAL EQPT | WALL MOUNTED | HR-1 | 500 | - | - | DX | 18 | 13.7 | 80/67 | 60.9/57.6 | 20 | N/A | 0.5 | 15 | 208/1 | DAIKIN | FXA018 | 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 | 60.9/57.6 | 10.5 | 0.4 | 0.6 | 15 | 208/1 | DAIKIN | FXM009 | 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 | 60.9/57.6 | 27 | 0.4 | 1.8 | 15 | 208/1 | DAIKIN | FXM024 | 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 | 60.9/57.6 | 8.7 | 0.4 | 0.8 | 15 | 208/1 | DAIKIN | FXM007 | 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 | 60.9/57.6 | 8.7 | 0.4 | 0.8 | 15 | 208/1 | DAIKIN | FXM007 | 1,2,3,4,5,6 | | |
| AH-2-5 | FIRST FLOOR | 137 - TOG | CEILING SUSPENDED | HR-1 | 410 | - | - | DX | 12 | 9.4 | 80/67 | 60.9/57.6 | 13.5 | 0.4 | 0.8 | 15 | 208/1 | DAIKIN | FXH012 | 1,2,3,4,5 | | |
| AH-2-6 | FIRST FLOOR | 138 - STAIR A | FAN COIL UNIT HORIZ | HR-1 | 320 | 60 | - | DX | 7.5 | 5.9 | 80/67 | 60.9/57.6 | 8.7 | 0.4 | 0.8 | 15 | 208/1 | DAIKIN | FXM007 | 1,2,3,4,5,6 | | |
| AH-2-7 | FIRST FLOOR | 129 - KITCHEN | 3X3 CASSETTE | HR-1 | 775 | - | - | DX | 24 | 20 | 80/67 | 60.9/57.6 | 27 | N/A | 0.7 | 15 | 208/1 | DAIKIN | FXF024 | 1,2,3,4,5 | | |
| CS-2-2 | FIRST FLOOR | 129 - KITCHEN | 3X3 CASSETTE | HR-1 | 775 | - | - | DX | 24 | 20 | 80/67 | 60.9/57.6 | 27 | N/A | 0.7 | 15 | 208/1 | DAIKIN | FXF024 | 1,2,3,4,5 | | |
| CS-2-3 | FIRST FLOOR | 130 - DAYROOM | 2X2 CASSETTE | HR-1 | 320 | - | - | DX | 9.5 | 7.8 | 80/67 | 60.9/57.6 | 10.5 | N/A | 0.8 | 15 | 208/1 | DAIKIN | FXZ009 | 1,2,3,4,5 | | |
| CS-2-4 | FIRST FLOOR | 107 - CORRIDOR | 2X2 CASSETTE | HR-1 | 300 | - | - | DX | 5.8 | 4.7 | 80/67 | 60.9/57.6 | 6.5 | N/A | 0.3 | 15 | 208/1 | DAIKIN | FXZ005 | 1,2,3,4,5 | | |
| CS-2-5 | FIRST FLOOR | 132 - DORM | 2X2 CASSETTE | HR-1 | 320 | 50 | - | DX | 7.5 | 5.9 | 80/67 | 60.9/57.6 | 8.7 | N/A | 0.8 | 15 | 208/1 | DAIKIN | FXZ007 | 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 | 60.9/57.6 | 6.5 | N/A | 0.3 | 15 | 208/1 | DAIKIN | FXZ005 | 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 | 60.9/57.6 | 10.5 | N/A | 0.8 | 15 | 208/1 | DAIKIN | FXZ009 | 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 | 60.9/57.6 | 10.5 | N/A | 0.8 | 15 | 208/1 | DAIKIN | FXZ009 | 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 | 60.9/57.6 | 6.5 | N/A | 0.3 | 15 | 208/1 | DAIKIN | FXZ005 | 1,2,3,4,5,6 | | |
| CS-2-10 | FIRST FLOOR | 101 - LOBBY | 2X2 CASSETTE | HR-1 | 405 | - | - | DX | 15 | 10.8 | 80/67 | 60.9/57.6 | 17 | N/A | 0.4 | 15 | 208/1 | DAIKIN | FXZ015 | 1,2,3,4,5 | | |
| CS-3-1 | SECOND FLOOR | 202 - WATCHALARM ROOM | 2X2 CASSETTE | HR-1 | 495 | - | - | DX | 18 | 13 | 80/67 | 60.9/57.6 | 21 | N/A | 0.9 | 15 | 208/1 | DAIKIN | FXZ018 | 1,2,3,4,5 | | |
| CS-3-2 | SECOND FLOOR | 201 - CORRIDOR | 2X2 CASSETTE | HR-1 | 405 | - | - | DX | 15 | 10.8 | 80/67 | 60.9/57.6 | 17 | N/A | 0.4 | 15 | 208/1 | DAIKIN | FXZ015 | 1,2,3,4,5 | | |
| CS-3-3 | SECOND FLOOR | 201 - CORRIDOR | 2X2 CASSETTE | HR-1 | 405 | - | - | DX | 15 | 10.8 | 80/67 | 60.9/57.6 | 17 | N/A | 0.4 | 15 | 208/1 | DAIKIN | FXZ015 | 1,2,3,4,5 | | |
| CS-3-4 | SECOND FLOOR | S1-200 - STAIR 1 | 3X3 CASSETTE | HR-1 | 910 | - | - | DX | 36 | 28.6 | 80/67 | 60.9/57.6 | 40 | N/A | 1.4 | 15 | 208/1 | DAIKIN | FXF036 | 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 | 60.9/57.6 | 10.5 | N/A | 0.8 | 15 | 208/1 | DAIKIN | FXZ009 | 1,2,3,4,5 | | |
| NOTES: | | | | | | | | | | | 429.4 | | | | | | | | | | | |
| 1. CASSETTE AND BRANCH SELECTOR UNIT QUANTITIES SHOWN ON PLANS. | | | | | | | | | | | 4. ALL UNITS REFRIGERANT R-410. | | | | | | | | | | | |
| 2. MAXIMUM SOUND POWER OUTPUT SHALL NOT EXCEED 46 DB. | | | | | | | | | | | 5. PROVIDE INTEGRAL CONDENSATE PUMP UNLESS OTHERWISE NOTED ON PLANS. | | | | | | | | | | | |
| 3. VRF SYSTEM SHALL BE CONTROLLED BY FACTORY PROVIDED CASSETTE THERMOSTATS INTEGRATED WITH CONDENSER/HEAT PUMP OPERATION. PROVIDE CONTROLLER FOR INTEGRATION WITH BAS (HVAC CONTROL PANEL). | | | | | | | | | | | 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 | | | NOTES | |
| | | | | TYPE | REFRIG. TYPE | NO. OF COMPS | CAP. CTRL RANGE (%) | MAX. INDOOR UNITS | IEER | SOUND PWR dBA | AMB. TEMP. (DBWB °F) | NO. OF FANS | AIRFLOW (CFM) | MCA | MOCP | VOLTS/ PHASE | MANUFACTURER | | MODEL |
| HR-1 | OUTDOORS - EAST | 794 | 144 | INVERTER | R-410 | 1 | 3 - 100 | | 16.2 | | | | | | | | | | 1,2 |
| | OUTDOORS - EAST | 794 | 144 | INVERTER | R-410 | 1 | 3 - 100 | 64 | 16.2 | 64 | 95/75 | 2 | 8,228 | 31.9 | 40 | 460/3 | DAIKIN | REYQ144TYDN | |
| | OUTDOORS - EAST | 794 | 144 | INVERTER | R-410 | 1 | 3 - 100 | | 16.2 | 64 | 95/75 | 2 | 8,228 | 31.9 | 40 | 460/3 | DAIKIN | REYQ144TYDN | |
| | | | | | | | | | | | | | | | | | | | |
| NOTES: | | | | | | | | | | | | | | | | | | | |
| 1. UNITS ARE ASSEMBLED AS ONE 432 MBH SYSTEM WITH SEPARATE DISCONNECTS FOR EACH SECTION. | | | | | | | | | | | | | | | | | | | |
| 2. PROVIDE DAIKIN BRANCH SELECTOR UNITS FOR HEAT RECOVERY OPERATION. SEE PLANS FOR LOCATION AND QUANTITY. | | | | | | | | | | | | | | | | | | | |

| ENERGY RECOVERY UNIT SCHEDULE | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|-------------------------------|------------------------|------------------------|------------------|-------|------------------|----|-----------------|-----------------|-------------------------------|-------------------------------|-----------------|------|-----------------|--------------|---------|-------|
| MARK | SERVES | HEAT EXCHANGER TYPE | OUTSIDE AIR FLOW (CFM) | EXHAUST AIR FLOW (CFM) | SUPPLY FAN | | EXHAUST FAN | | SUMMER EFF. (%) | WINTER EFF. (%) | ENERGY RECOVERED SUMMER (MBH) | ENERGY RECOVERED WINTER (MBH) | ELECTRICAL DATA | | BASIS OF DESIGN | | NOTES | |
| | | | | | E.S.P. (IN.W.G.) | HP | E.S.P. (IN.W.G.) | HP | | | | | MCA | MOCP | VOLTS/ PHASE | MANUFACTURER | | MODEL |
| ERU-1 | 1ST FLOOR | STATIC PLATE, HEAT & HUMIDITY | 1.600 | 1.500 | 0.75 | 1 1/2 | 1.00 | 2 | 59.0 | 69.0 | 39.0 | 101.8 | 6.6 | 15.0 | 460/3 | RENEWAIRE | HEZXINH | 1 |
| ERU-2 | 2ND & 3RD FLOORS | STATIC PLATE, HEAT & HUMIDITY | 2.515 | 2.075 | 0.75 | 2 | 1.50 | 3 | 54.0 | 65.0 | 48.9 | 127.3 | 9.0 | 15.0 | 460/3 | RENEWAIRE | HEZXINH | 1 |

NOTES:

1. PROVIDE TEFC MOTOR W/VD FOR SUPPLY FAN AND EXHAUST FAN, OUTSIDE AIRFLOW MONITOR AND CONTROLS TO MATCH AIRFLOW RATE OF DOAU AND BAS CONTROLS.

| ENERGY RECOVERY UNIT SCHEDULE | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|-------------------------------|------------------------|------------------------|------------------|-------|------------------|----|-----------------|-----------------|-------------------------------|-------------------------------|-----------------|-------------|-----------------|-----------|---------|---|
| MARK | SERVES | HEAT EXCHANGER TYPE | OUTSIDE AIR FLOW (CFM) | EXHAUST AIR FLOW (CFM) | SUPPLY FAN | | EXHAUST FAN | | SUMMER EFF. (%) | WINTER EFF. (%) | ENERGY RECOVERED SUMMER (MBH) | ENERGY RECOVERED WINTER (MBH) | ELECTRICAL DATA | | BASIS OF DESIGN | | NOTES | |
| | | | | | E.S.P. (IN.W.G.) | HP | E.S.P. (IN.W.G.) | HP | | | | | MCA | MOC/P PHASE | MANUFACTURER | MODEL | | |
| ERU-1 | 1ST FLOOR | STATIC PLATE, HEAT & HUMIDITY | 1,600 | 1,500 | 0.75 | 1 1/2 | 1.00 | 2 | 59.0 | 69.0 | 39.0 | 101.8 | 6.6 | 15.0 | 460/3 | RENEWAIRE | HEZXINH | 1 |
| ERU-2 | 2ND & 3RD FLOORS | STATIC PLATE, HEAT & HUMIDITY | 2,515 | 2,075 | 0.75 | 2 | 1.50 | 3 | 54.0 | 65.0 | 48.9 | 127.3 | 9.0 | 15.0 | 460/3 | RENEWAIRE | HEZXINH | 1 |

NOTES:

1. PROVIDE TEFC MOTOR W/W/D FOR SUPPLY FAN AND EXHAUST FAN, OUTSIDE AIRFLOW MONITOR AND CONTROLS TO MATCH AIRFLOW RATE OF DOAU AND BAS CONTROLS.

| SPLIT SYSTEM AIR HANDLER UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------------------|--------------------------|--------------------------|------------|---------|-------|-----------------|-------|------|--------------------|--------------------|--------------------|----------------------|-----------------------|----------|--------------|------------|-----|-------|--------------|--------------------|-----------------|--|-------|
| MARK | LOCATION | SERVES | MAXIMUM OA AIRFLOW (CFM) | MINIMUM OA AIRFLOW (CFM) | ENT. COND. | | HP | FANS | | | HEATING TOT. (MBH) | COILS | | | SUPP. ELEC. HEAT (KW) | FILTERS | | ELECTRICAL | | | | MATCHING HEAT PUMP | BASIS OF DESIGN | | NOTES |
| | | | | | db (°F) | wb (°F) | | E.S.P. (I.W.C.) | RPM | MAX | | COOLING TOT. (MBH) | COOLING SENS (MBH) | HOT GAS REHEAT (MBH) | | THK (IN) | FINAL FILTER | PWR | FLA | MCCP | MANUFACTURER | | MODEL | | |
| DOAU-1 | MECH. ROOM | LOWER LEVEL | 1,600 | 380 | 79.2 | 67.6 | 1 | 1.25 | 2,530 | 51.9 | 69.2 | 44 | 40.3 | 10 | 2 | MERV 8 | 460/3 | 16.9 | 20 | HP-01 | ADDISON | HCH074 | 1,2,3 | | |
| DOAU-2 | MECH. ROOM | 1ST & 2ND FLOORS | 2,515 | 2,515 | 79.6 | 67.7 | 1 1/2 | 1.25 | 1,134 | 61.6 | 60.2 | 62.1 | 52.6 | 15 | 2 | MERV 8 | 460/3 | 25.1 | 30 | HP-02 | ADDISON | HCH074 | 1,2,3 | | |
| CRU-1 | LOWER LEVEL | COMM RM | 885 | - | 75 | 61 | 0 1/2 | 0.3 | 1,050 | - | 21.8 | 19.5 | - | 5.3 | 4 | MERV 4 | 208/1 | 1.5 | - | CU-1 | LEIBERT | MDD24E | 4 | | |
| CRU-2 | LOWER LEVEL | COMM RM | 885 | - | 75 | 61 | 0 1/2 | 0.3 | 1,050 | - | 21.8 | 19.5 | - | 5.3 | 4 | MERV 4 | 208/1 | 1.5 | - | CU-2 | LEIBERT | MDD24E | 4 | | |

NOTES:

1. PROVIDE SINGLE POINT POWER CONNECTION AND CONTROLLER FOR COMPLETE OPERATION AS NOTED ON PLANS AND SPECIFICATIONS.
2. PROVIDE MODULATING HOT GAS REHEAT AND CONTROLLING (SCR) SUPPLEMENTARY ELECTRIC HEAT.
3. PROVIDE UNIT WITH CONFIGURATION AND COMPONENTS AS SHOWN ON PLANS AND ELEVATIONS.
4. FACTORY PROVIDED HVAC CONTROL PANEL FOR LEAD LAG CONTROL.

| CONDENSER SCHEDULE | | | | | | | | | | | | | | | |
|---|-----------------|--------|----------------------|-----|----------------|--------|----------|-------------------|-----------|------|-------|-----------------|--------------|-------------|-------|
| MARK | LOCATION | SERVES | TOTAL CAPACITY (MBH) | EER | CONDENSER DATA | | | | ELEC DATA | | | BASIS OF DESIGN | | NOTES | |
| | | | | | FAN NO. | FAN HP | COMP NO. | AMB TEMP db/wb °F | REFRIG. | FLA | MOCPP | V/PH | MANUFACTURER | | MODEL |
| CU-1 | OUTDOORS - EAST | CRU-1 | 22.8 | - | 1 | 0 1/5 | 1 | 95/78 | R407C | 13.4 | - | 208/1 | LEIBERT | PFH027A-PL7 | 1.2 |
| CU-2 | OUTDOORS - EAST | CRU-2 | 22.8 | - | 1 | 0 1/5 | 1 | 95/78 | R407C | 13.4 | - | 208/1 | LEIBERT | PFH027A-PL7 | 1.2 |
| NOTES: | | | | | | | | | | | | | | | |
| 1. PROVIDE SCROLL COMPRESSOR WITH HOT GAS BYPASS. | | | | | | | | | | | | | | | |
| 2. MATCH PERFORMANCE OF AIR HANDLER . | | | | | | | | | | | | | | | |

| HEAT PUMP SCHEDULE | | | | | | | | | | | | | | | | |
|--------------------|-----------------|--------|----------------------|------|----------------|--------|----------|-----------|------------------|-----------|------|-------|-----------------|--------------|--------|-------|
| MARK | LOCATION | SERVES | TOTAL CAPACITY (MBH) | EER | CONDENSER DATA | | | | | ELEC DATA | | | BASIS OF DESIGN | | NOTES | |
| | | | | | FAN QTY. | FAN HP | COMP NO. | CIRC. NO. | AMB TEMP db/wb°F | REFRIG. | MCA | MOC/P | V/PH | MANUFACTURER | | MODEL |
| HP-01 | OUTDOORS - EAST | DOAU-1 | 69.2 | 12.3 | 1 | 1 | 2 | 2 | 95/78 | R410A | 16.2 | 20 | 460/3 | ADDISON | RCH074 | 1.2 |
| HP-02 | OUTDOORS - EAST | DOAU-2 | 88.2 | 10.6 | 1 | 1 | 2 | 2 | 95/78 | R410A | 16.7 | 20 | 460/3 | ADDISON | RCH104 | 1.2 |

NOTES:

1. PROVIDE DIGITAL SCROLL HEAT PUMP WITH HOT GAS REHEAT.

2. MATCH PERFORMANCE OF AIR HANDLER .

| BRANCH SELECTOR SCHEDULE | | | | | | | | | | | |
|--------------------------|--------------------------------|-------------|----------------|-----------------|----|----|------|-----------------|-----------------|--------------|----------|
| MARK | SERVES | LOCATION | PORTS (QTY) | ELECTRICAL DATA | | | | WEIGHT (LBS) | BASIS OF DESIGN | | |
| | | | | V | PH | HZ | MCA | | MOCP | MANUFACTURER | MODEL |
| BS-1-1 | AH-1-1, AH-1-2 | LOWER LEVEL | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-1-2 | CS-1-1 | LOWER LEVEL | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-1-3 | AH-1-3, AH-1-4 | LOWER LEVEL | 4 | 208 | 1 | 60 | 0.40 | 15 | 49 | DAIKIN | BSQ54TVJ |
| BS-1-4 | CS-1-2 | LOWER LEVEL | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-1-5 | AH-1-5 | LOWER LEVEL | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-1-6 | WM-1-1, WM-1-2 | LOWER LEVEL | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-2-1 | AH-2-1 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-2-2 | CS-2-3 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-2-3 | CS-2-1, CS-2-2 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ60TVJ |
| BS-2-4 | AH-2-2 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-2-5 | AH-2-3 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-2-6 | AH-2-4 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-2-7 | CS-2-6, CS-2-7, CS-2-8, CS-2-9 | 1ST FLOOR | 6 | 208 | 1 | 60 | 0.60 | 15 | 68 | DAIKIN | BSQ54TVJ |
| BS-2-8 | AH-2-5, AH-2-6, CS-2-10 | 1ST FLOOR | 4 | 208 | 1 | 60 | 0.40 | 15 | 49 | DAIKIN | BSQ54TVJ |
| BS-2-9 | CS-2-4 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-2-10 | CS-2-5 | 1ST FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ36TVJ |
| BS-3-1 | CS-3-1, CS-3-5 | 2ND FLOOR | 4 | 208 | 1 | 60 | 0.40 | 15 | 49 | DAIKIN | BSQ54TVJ |
| BS-3-2 | CS-3-2, CS-3-3 | 2ND FLOOR | 4 | 208 | 1 | 60 | 0.40 | 15 | 49 | DAIKIN | BSQ54TVJ |
| BS-3-3 | CS-3-4 | 2ND FLOOR | 1 | 208 | 1 | 60 | 0.10 | 15 | 27 | DAIKIN | BSQ60TVJ |
| NOTES: | | | | | | | | | | | |

| FAN SCHEDULE | | | | | | | | | | | | | |
|--|-----------------|------------------|-------|------|-------|--------|--------------|------|-----|-----------------|-------------|-----|-------|
| MARK | SERVES | LOCATION | CFM | ESP | FRPM | DRIVE | ELECTRICAL | | | BASIS OF DESIGN | MODEL | NO. | NOTES |
| | | | | | | | VOLTS/ PHASE | HP | FLA | | | | |
| EF-1-1 | TRASH/RECYCLING | TRASH/RECY. 011 | 230 | 0.38 | 1,750 | DIRECT | 115/1/60 | 0.10 | - | GREENHECK | SQ-80-VG | 1.3 | |
| EF-2-1 | MEDICAL DECON. | UTILITY ROOM 108 | 230 | 0.50 | 1,750 | DIRECT | 115/1/60 | 0.10 | - | GREENHECK | SQ-80-VG | 1.3 | |
| EF-2-2 | AGENT STOR. 141 | AGENT STOR. 141 | 250 | 0.50 | 1,750 | DIRECT | 115/1/60 | 0.10 | - | GREENHECK | SQ-80-VG | 1.3 | |
| EF-3-1 | KITCHEN/RANGE | ROOF - EAST | 1,250 | 1.00 | 1,546 | DIRECT | 115/1/60 | 0.12 | 9.8 | ACCREX | XRUD-121-VG | 2.3 | |
| EF-3-2 | HOSE DRY TOWER | HOSE DRY TOWER | 500 | 0.50 | 1,750 | DIRECT | 115/1/60 | 0.17 | 3.4 | GREENHECK | CW-095-VG | 1.3 | |
| SEF-2-1 | VENTILATION | APPARATUS BAY | 550 | 0.50 | 1,750 | DIRECT | 115/1/60 | 0.18 | - | GREENHECK | SQ-95-VG | 1.3 | |
| NOTES: | | | | | | | | | | | | | |
| 1. PROVIDE STARTER AND CODE COMPLIANT DISCONNECT SWITCH, SPEED CONTROL, THERMOSTAT (PER PLANS), TRANSFORMERS, WIRING CONDUIT FOR COMPLETE OPERATION, LOCAL START/STOP SWITCH AND UL LISTING. | | | | | | | | | | | | | |
| 2. PROVIDE UL/ULC 762 LISTING, NEMA-3R TOGGLE SWITCH, HINGED BASE, HIGH TEMP CURB SEAL RATED FOR CONTINUOUS DUTY AT 2,000 DEG. F, GREASE TRAP. | | | | | | | | | | | | | |
| 3. PROVIDE ELECTRONICALLY COMMUTATE MOTOR WITH 0-10V SPEED CONTROL INPUT. | | | | | | | | | | | | | |

| LOUVER SCHEDULE | | | | | | | | | | |
|-----------------|-------------|-----------------|-------|---------------------|----------------------|-----------------|----------------------|-----------------|---------|---------|
| MARK | SERVICE | LOCATION | CFM | VELOCITY (FT./MIN.) | PRESS. LOSS (I/W C.) | FREE AREA (FT²) | WIDTH X HEIGHT (IN.) | BASIS OF DESIGN | | NOTES |
| | | | | | | | | MANUFACTURER | MODEL | |
| L-1 | OUTSIDE AIR | MECHANICAL ROOM | 3,650 | 489 | 0.04 | 7.46 | 76 X 34 75 | GREENHECK | EHH-401 | 1,2,3,4 |
| L-2 | EXHAUST AIR | WEST ELEVATION | 3,350 | 659 | 0.08 | 5.08 | 48 X 37 25 | GREENHECK | EHH-401 | 1,2,3,4 |
| L-3 | OUTSIDE AIR | SOUTH ELEVATION | 615 | < 500 | 0.05 | 4.81 | 46 25 X 37 | GREENHECK | EHH-401 | 1,2,3,4 |
| L-4 | RELIEF AIR | EAST ELEVATION | 500 | < 500 | 0.05 | 4.59 | 44 25 X 37 | GREENHECK | EHH-401 | 1,2,3,4 |

NOTES:

1. PROVIDE REMOVABLE STAINLESS STEEL WIRE MESH BIRD SCREEN.
2. SEE ARCHITECTURAL SHEETS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
3. PROVIDE CORROSION RESISTANT BAKED PHENOLIC COATING AND FINISH TO MATCH ARCHITECTURAL.
4. PROVIDE DOUBLE WALL INSULATED BLANK-OFF PANELS IN UNUSED PORTIONS OF LOUVER. SEE PLANS FOR EXACT REQUIREMENTS.

| CEILING FAN SCHEDULE | | | | | | | | | | | |
|--|-------------|---------------|------------------|------|--------|-----------------|------|------|-------------------|---------|-------|
| MARK | SERVES | LOCATION | FAN DIA. (FT) | FRPM | DRIVE | ELECTRICAL | | | BASIS OF DESIGN | | NOTES |
| | | | | | | VOLTS/ PHASE | HP | A | MANUFACTURER | MODEL | |
| HVLS-1 | VENTILATION | APPARATUS BAY | 16 | 99 | DIRECT | 480/3/60 | 1.50 | 10.0 | BIG ASS SOLUTIONS | FPX3-16 | 1,2 |
| HVLS-2 | VENTILATION | APPARATUS BAY | 16 | 99 | DIRECT | 480/3/60 | 1.50 | 10.0 | BIG ASS SOLUTIONS | FPX3-16 | 1,2 |
| NOTES: | | | | | | | | | | | |
| 1. PROVIDE STARTER AND CODE COMPLIANT DISCONNECT SWITCH, SPEED CONTROL, THERMOSTAT (PER PLANS), TRANSFORMERS, WIRING CONDUIT FOR COMPLETE OPERATION, LOCAL START/STOP SWITCH AND UL LISTING. | | | | | | | | | | | |
| 2. PROVIDE FACTORY SMART HVAC CONTROLLER WITH REMOTE TEMPERATURE SENSORS. | | | | | | | | | | | |

| VAV TERMINAL BOXES | | | | | | | | | | | | |
|--------------------|-------------|---------------|------|--------------|-------------------|---------------|-------------|-------|---------|-----------------|-------|-------|
| MARK | LOCATION | PRIM. AIR CFM | | AIR INLET IN | MAX. DISCHARGE NC | PRESSURE DROP | ELECT. DATA | | | BASIS OF DESIGN | | NOTES |
| | | MIN. | MAX. | | | | VOLTS | PHASE | DISC SW | MANUFACTURER | MODEL | |
| VAV-1-1 | LOWER LEVEL | 125 | 475 | 8 | 30 | 0.01 | 115 | 1 | DIV. 26 | PRICE | SDV | 1 |
| VAV-1-2 | LOWER LEVEL | 95 | 425 | 7 | 30 | 0.04 | 115 | 1 | DIV. 26 | PRICE | SDV | 1 |
| VAV-1-3 | LOWER LEVEL | 65 | 300 | 6 | 30 | 0.08 | 115 | 1 | DIV. 26 | PRICE | SDV | 1 |
| VAV-1-4 | LOWER LEVEL | 94 | 400 | 7 | 30 | 0.04 | 115 | 1 | DIV. 26 | PRICE | SDV | 1 |

NOTES:

1. PROVIDE ALL WIRING, TRANSFORMERS AND DEVICES NECESSARY FOR COMPLETE INTEGRATION WITH BUILDING HVAC DDC CONTROL SYSTEM.

| MAKE-UP AIR UNITS | | | | | | | | | | | | | | | | | | | |
|-------------------|-------------------|--------------|---------------------|----------------|--------|-----------------|-------|-----|---------|----------|---------|----------|-----------|------------|----------|-----------------|--------------|-------------|-------|
| MARK | LOCATION | HEATING TYPE | SUPPLY AIR FAN DATA | | | ELECTRICAL DATA | | | | | FILTERS | | HEATING | | | BASIS OF DESIGN | | | NOTES |
| | | | CFM | EXT. SP I.W.G. | FAN HP | VOLTS | PHASE | MCA | STARTER | DISC. SW | TYPE | THK (IN) | MBH INPUT | MBH OUTPUT | E.A.T. F | L.A.T. F | MANUFACTURER | MODEL | |
| MAU-1 | EAST ROOF/KITCHEN | GAS | 1,000 | 0.56 | 34 | 460 | 3 | 2.3 | DIV.23 | DISC. SW | PLEATED | 2 | 75.1 | 69.1 | 8.3 | 72.3 | GREENHECK | XDG-108-H10 | 1 |

NOTES:

1. PROVIDE OPTIONS AND ACCESSORIES: AIR FLOW ARRANGEMENT: OUTDOOR AIR ONLY; WEATHERHOOD: BIRDSCREEN; FILTER SECTION: ALUMINUM, 16X25X2 - (3); DAMPER: INLET, OUTDOOR AIR INTAKE POSITION: END; DISCHARGE POSITION BOTTOM; COATING: PERMACTOR-CONCRETE GRAY (RAL 7023); INSULATION: DUCT LINER - HEAT SOURCE ON; ACCESS SIDE: RIGHT-HAND; CONTROL CENTER: HEAT INLET AIR SENSOR; DIRECT GAS... APPROVALS: ETL AND INR; TEMPERATURE CONTROL: DISCHARGE: FLAME SENSING; FLAME ROD; IGNITION CONTROL: DIRECT SPARK; UNIT RATED GAS PRESSURE: 12 PSI; GAS PRESSURE REGULATOR: 10 PSI. MOUNTING: GPI-22 SZ7.5 C230; CURB INCLUDES: 1 IN. INSUL.; COMBO CURB: XRUB-121

2. PROVIDE 12" INSULATED ROOF CURB.

| ELECTRIC UNIT HEATER SCHEDULE | | | | | | | | | | | | | | | |
|---|------------------------------|----------|-------------------|-----------------------|----------------|-----------------------|------------|-----|----|----|-----------------------------|-----------------|-----------------|----------|-------|
| MARK | LOCATION | TYPE | AIR FLOW (CFM) | SENS. CAP. (KW) | THROW (FT.) | TEMP. RISE (°F) | ELECTRICAL | | | | MOUNTING HEIGHT (FT.) | WEIGHT (LBS) | BASIS OF DESIGN | | NOTES |
| | | | | | | | FAN HP | V | PH | HZ | | | MANUFACTURER | MODEL | |
| EUH-1 | J/C TRASH & RECYCLING 011 | WALL MTD | 350 | 3 | 12 | 27 | 1/100 | 208 | 1 | 60 | 8 | 27 | QMARK | MUH03-81 | 1 |
| EUH-2 | COMPLEMENTARY AGENT STO. 141 | WALL MTD | 350 | 3 | 12 | 27 | 1/100 | 208 | 1 | 60 | 8 | 27 | QMARK | MUH03-81 | 1 |
| EUH-3 | MECHANICAL ROOM | WALL MTD | 350 | 3 | 12 | 27 | 1/100 | 208 | 1 | 60 | 8 | 27 | QMARK | MUH03-81 | 1 |
| NOTES: | | | | | | | | | | | | | | | |
| 1. PROVIDE INDUSTRIAL CORROSION RESISTANT FINISH, REMOTE THERMOSTAT, TRANSFORMER AND WALL MOUNTING KIT. | | | | | | | | | | | | | | | |

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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 | 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) | ENCLOSURE | | | | MOUNTING HEIGHT (IN.) | COLOR | ELECTRICAL DATA | | | | BASIS OF DESIGN | NOTES |
| | | | TYPE | DEPTH (IN.) | HEIGHT (IN.) | WIDTH (IN.) | | | AMPS | VOLT | PH | HZ | | |
| EW-H-1 | LAVATORY | 1.5 | RECESSED WALL | 3 5/8 | 12 1/8 | 9 1/4 | 12 | WHITE | 12.5 | 120 | 1 | 60 | MARKEL 3055 | 1 |
| EW-H-2 | LAVATORY | 1.5 | RECESSED WALL | 3 5/8 | 12 1/8 | 9 1/4 | 12 | WHITE | 12.5 | 120 | 1 | 60 | MARKEL 3055 | 1 |
| EW-H-3 | LAVATORY | 1.5 | RECESSED WALL | 3 5/8 | 12 1/8 | 9 1/4 | 12 | WHITE | 12.5 | 120 | 1 | 60 | MARKEL 3055 | 1 |
| EW-H-4 | LAVATORY | 1.5 | RECESSED WALL | 3 5/8 | 12 1/8 | 9 1/4 | 12 | WHITE | 12.5 | 120 | 1 | 60 | MARKEL 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 | | 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 TYPE/ 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. | | | | | | | | | | | | |

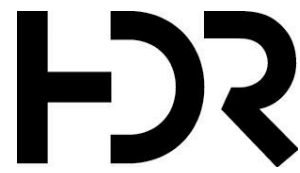
| ELECTRIC DUCT HEATERS | | | | | | | | | | | | | | | |
|---|--------------|---------------|----------------|--------------------|-----|----|--------------|--------------|--------------|------------------------------|-----------------|-------|----------|-----------------|-------|
| MARK | SERVICE | LOCATION | 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 |
| | | | | | | | | | | | VOLTS | PHASE | DISC. SW | | |
| EDH-1 | TEMPERED AIR | APPARATUS BAY | FINNED TUBULAR | 12 X 12 | 550 | 10 | PROPORTIONAL | 8 | 68 | 0.2 | 460 | 3 | DIV. 26 | INDEECO | 1 |
| 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.). | | | | | | | | | | | | | | | |

| ENGINE EXHAUST REMOVAL (AIR FILTER) SYSTEM SCHEDULE | | | | | | | | | | | | | | | |
|---|---------------|----------------|-------------|-----------------------|-----------------------|------------------------|------------------------|-----------------------|-----------------------|-------------|-----|-----|------------------|-----------|---------|
| MARK | SERVES | LOCATION | BLOWER TYPE | PRE-FILTER MEDIA TYPE | PRE-FILTER SIZE (IN.) | MAIN FILTER MEDIA TYPE | MAIN FILTER SIZE (IN.) | GAS-PHASE FILTER TYPE | GAS-PHASE FILTER SIZE | ELECTRICAL | | | BASIS OF DESIGN | | NOTES |
| | | | | | | | | | | VOLTS/PHASE | HP | FLA | MANUFACTURER | MODEL | |
| AFS-1 | APPARATUS BAY | COLUMN 10 WEST | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| AFS-2 | APPARATUS BAY | COLUMN 11 | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| AFS-3 | APPARATUS BAY | COLUMN 13 | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| AFS-4 | APPARATUS BAY | COLUMN 15 | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| AFS-5 | APPARATUS BAY | COLUMN 15 | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| AFS-6 | APPARATUS BAY | COLUMN 16 | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| AFS-7 | APPARATUS BAY | COLUMN 16 | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| AFS-8 | APPARATUS BAY | COLUMN 17 EAST | CENTRIFUGAL | 3-PLY POLYMERV 8 | 24 X 24 X 1 | HEPA 95% EFF. | 24 X 24 X 6 | SEE NOTE 2 | 24 X 24 X 4 | 208/1/60 | 3/4 | 7.0 | AIR VACUUM CORP. | AIRVAC911 | 1,2,3,4 |
| NOTES: | | | | | | | | | | | | | | | |
| 1. PROVIDE A VERTICAL AIR FLOW DESIGN, CEILING HUNG, RE-CIRCULATING AIR FILTRATION SYSTEM WITH 4-STAGE FILTER PACK UL TESTED AND CERTIFIED. | | | | | | | | | | | | | | | |
| 2. PROVIDE METAL FRAMED ACTIVATED CARBON GRANULAL AND POTASSIUM PERMANGANATE FILTER WITH INTERNAL HONEYCOMB CONTAINMENT STRUCTURE. | | | | | | | | | | | | | | | |
| 3. PROVIDE UL 508 CERTIFIED CONTROL PANEL IN NEMA 4 ENCLOSURE AND ACTIVATION FOR ON/OFF/AUTO SYSTEM CONTROL. INCLUDE ALL SENSORS, TRANSFORMERS, WIRING AND DEVICES FOR A COMPLETE OPERATIONAL SYSTEM. | | | | | | | | | | | | | | | |
| 4. SYSTEM IS ENCLOSED IN A 25 X 26 X 28 WELD STEEL CABINET WITH CORROSION RESISTANT COATING AND FILTER/MOTOR ACCESS. | | | | | | | | | | | | | | | |

| DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|-----------------|---------|------|------------------------------------|-----------|--------------------------|------|--------------|------------------|----------------|------------------|-------------------|------------|------|---------|-------------------|-----------------------|--------------|------------|-------------|
| MARK | AREA SERVED | NOMINAL TONS | REFRIG. | SEER | INDOOR UNIT | | | | OUTDOOR UNIT | | | | | | | | MODEL INFORMATION | | | NOTES | |
| | | | | | SUPPLY AIR CFM (HI - MED - LOW) | OA CFM | ELECTRICAL | | | HEATING CAPACITY | | COOLING CAPACITY | | ELECTRICAL | | | WEIGHT (LBS) | BASIS OF DESIGN | OUTDOOR UNIT | | INDOOR UNIT |
| | | | | | | | MCA | MOCp | VOLT/PH | @47°F (MBH) | @17°F (MBH) | TOTAL (MBH) | SENSIBLE (MBH) | MCA | MOCp | VOLT/PH | | | | | |
| HP-03 / CS-3-6 | 202 - WATCH ALARM ROOM | 1.5 | R410A | 20.5 | 565 - 494 - 424 | -- | POWERED FROM INDOOR UNIT | | | 20.0 | 12.5 | 18.0 | 15.2 | 18.1 | 30 | 208 / 1 | 135 | LG | LUU187HV | LCN187HV | 1,2,3,4,5 |
| HP-01 / WM-1-03 | 002A - SECURE STORAGE | 0.75 | R410A | 27.5 | 495-420-280 | -- | POWERED FROM INDOOR UNIT | | | 11.0 | -- | 9.0 | 7.2 | 11.2 | 15 | 208 / 1 | 77 | LG | LAU090HYV1 | LAN090HYV1 | 1,2,3,4,5 |
| NOTES: 1. COOLING CAPACITY BASED ON 95° F OUTDOOR AIR TEMPERATURE 2. R-410A REFRIGERANT 3. WALL MOUNTED PROGRAMMABLE THERMOSTAT/CONTROLLER 4. PROVIDE WITH SINGLE POINT POWER CONNECTION AND DISCONNECT SWITCH 5. PROVIDE WITH CONDENSATE PUMP | | | | | | | | | | | | | | | | | | | | | |



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| AIP PROJ. NO. 3-21-0029-XX |
| BGA PROJECT NO. 1700 |
| PROJECT NO: 10109227 |
| CAD DWG FILE: |
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| DRAWN BY: CSW |
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SHEET TITLE

SCHEDULES

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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 | MFS | | |
| 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 | REMQ120PBTJ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 | 41.3 | 60A | 573 | |
| CU-2B | " | DAIKIN | REMQ96PBTJ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 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).
2. PROVIDE WITH SCROLL COMPRESSOR.
3. PROVIDE I-TOUCH MANAGER CONTROL PANEL, ONE PANEL FOR FACILITY.
4. PROVIDE REMOTE ADVANCED MICROPROCESSOR SYSTEM 2200-35 CONTROL PANEL.
5. NON-DUCTED.

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 | TELECOM S-16 | COMPU-AIRE | MTE-P-334 | 35.2 | 27.7 | 80 | 67 | 75 | 1260 | 3/4 | 0.3 | R-407C | 460/3 | 2.5 | 3.5 | 15 | 9.0 | 210 | 1, 2, 3 |
| CRU-2 | TELECOM M-07 | COMPU-AIRE | MTE-P-1.534 | 18.2 | 13.9 | 80 | 67 | 75 | 685 | 3/4 | 0.3 | R-407C | 460/3 | 2.5 | 3.5 | 15 | 9.1 | 210 | 1, 2, 3 |
| | | | | | | | | | | | | | | | | | | | |

1. PROVIDE UNIT WITH AIR DISTRIBUTION PLENUM.
2. COOLING-ONLY UNIT.
3. NON-DUCTED.

KITCHEN HOOD SCHEDULE

| MARK | MANUFACTURER | MODEL | SIZE (L) | TYPE | EXHAUST CONNECTION | A.P.D. (IN.W.C.) | ELEC. VOLTS/Ø | NOTES |
|------|--------------|----------|-------------|----------|-----------------------|---------------------|------------------|---------|
| KH-1 | CAPTIVE-AIRE | 3347BD-2 | 3'-6" | (NOTE 3) | 8"Ø | 0.75 | 115/1 | 1, 2, 3 |
| | | | | | | | | |

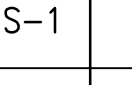
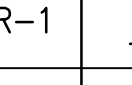
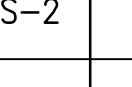
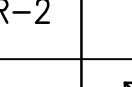
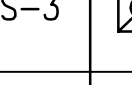
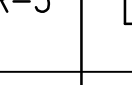
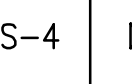
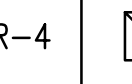
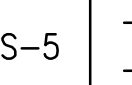

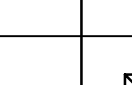
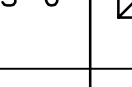
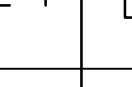
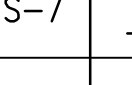
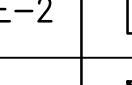
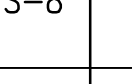
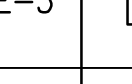
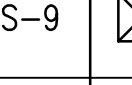
1. REFER TO SPECIFICATION SECTION 23-38-15 FOR EQUIPMENT REQUIREMENTS.
2. SYSTEM COMPLETE WITH HOOD, FIRE SYSTEM, EXHAUST FAN (EF-3), AND ELECTRICAL SYSTEM.
3. LOW PROXIMITY BACK SHELF HOOD.

GAS FIRED UNIT HEATER SCHEDULE

| MARK | SERVING | MFR. | MODEL | FUEL TYPE | CAPACITY | | FLUE SIZE (IN-Ø) | NOM. CFM | ELECTRICAL | | | NOTES |
|------|-------------------------|--------|---------|--------------|----------------|-----------------|------------------------|-------------|-----------------------------|-------------|-----|-------|
| | | | | | INPUT (MBH) | OUTPUT (MBH) | | | POWER CONSUMPTION (W) | VOLTS/PHASE | FLA | |
| UH-1 | M-01 SALT STOR. | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-2 | M-02 SAND STOR. | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-3 | M-03 DE-ICER STOR. | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-4 | M-04 PAINT STRIPING | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-5 | M-06 TECH. MAINT. | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-6 | M-07 FIELD MAINT. | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-7 | M-08 BLDG MATERIALS | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-8 | VM-16 LUBE/COMPRESSOR | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| UH-9 | VM-26 SHIPPING AND REC. | REZNOR | UDBS-30 | NG | 30 | 24.6 | 4 | 405 | 215 | 115/1 | 3.7 | 1, 2 |
| | | | | | | | | | | | | |

1. POWER CONSUMPTION AT FULL LOAD, MEDIUM SPEED, WATTS.
2. PROVIDE UH WITH VERTICAL VENT TERMINAL /COMBUSTION AIR INLET ASSEMBLY KIT.

AIR DEVICE SCHEDULE (1)(2)(3)(4)

| SUPPLY DIFFUSERS | | | | | EXHAUST / RETURN GRILLES | | | | |
|------------------|--|-------|-------------------------------------|--------------|--------------------------|--|-------|------------------------|--------------|
| PLAN MARK | SYMBOL | MFR. | MODEL | NECK SIZE | PLAN MARK | SYMBOL | MFR. | MODEL | NECK SIZE |
| S-1 |  NECK | TITUS | DL | SEE PLANS | R-1 |  NECK | TITUS | 350RL | SEE PLANS |
| S-2 |  NECK | TITUS | S300FL | SEE PLANS | R-2 |  NECK | TITUS | 12X24 PAR | SEE PLANS |
| S-3 |  NECK | TITUS | TMS 24x24 (NOTE 6) | SEE PLANS | R-3 |  NECK | TITUS | 24X24 PAR MODULE | SEE PLANS |
| S-4 |  NECK | TITUS | TDCA 12x12 MODULE (NOTE 6) | SEE PLANS | R-4 |  | TITUS | 24X24 PAR | 22X22 |
| S-5 |  NECK | TITUS | 300RS-SS (NOTE 5) (NOTE 9) | SEE PLANS | | | | | |
| S-6 |  NECK | TITUS | TDCA 24x24 MODULE (NOTE 6) | SEE PLANS | E-1 |  | TITUS | 350RL | 22X22 |
| S-7 |  NECK | TITUS | 300RS | SEE PLANS | E-2 |  | TITUS | 350RL-SS (NOTE 5) | 22X22 |
| S-8 |  NECK | TITUS | PAS 12x24 (NOTE 6) | SEE PLANS | E-3 |  | TITUS | 24X24 PAR MODULE | 22X22 |
| S-9 |  NECK | TITUS | TDCA | SEE PLANS | E-4 |  NECK | TITUS | 350ZRL (NOTE 8) | SEE PLANS |
| S-10 |  NECK | TITUS | 350ZRL (NOTE 8) | SEE PLANS | | | | | |

1. DIRECTION ARROWS ON DRAWINGS SHOW FLOW PATTERN.
2. MATERIAL: SEE SPECIFICATIONS, UNLESS NOTED OTHERWISE.
3. CONTRACTOR TO PROVIDE REQUIRED FRAME STYLE TO ACCOMMODATE CEILING AS SHOWN ON ARCHITECTURAL DRAWING. FLEXIBLE BRANCH RUNOUT TO BE SAME SIZE AS NECK SIZE ON AIR DEVICE.
4. FIELD INSTALLED ROUND DUCT ADAPTER CONNECTED TO SQUARE NECK.
5. STAINLESS STEEL.
6. PROVIDE WITH R-6 INSULATION BLANKET.
7. PROVIDE WITH INTEGRAL VOLUME DAMPER WHEN INSTALLED IN DRYWALL.
8. STEEL WITH 3/4" BLADE SPACING.
9. PROVIDE WIT INTEGRAL VOLUME DAMPER.

RECORD DRAWINGS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY THE GENERAL CONTRACTOR AND/OR OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PARSONS BRINCKERHOFF ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT.

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



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

RECORD SET
OCTOBER 24, 2016

STATE OF KENTUCKY SEAL

JOHN D. COAD JR. - ENGINEER
KY #11325

SHEET CONTENT
SCHEDULES

DATE **APRIL 16, 2014**

SCALE AS SHOWN

DRAWN BY JW

CHECKED BY GJ

APPROVED BY KT

PB PROJECT NUMBER 185609B

SHEET NUMBER

M7.0

NOV 29, 2016 10:18 AM WINEBAUGH
T:\185609A-LEX-SRE-MAINTENANCE\FACILITY\AUTOCAD\SHEETS\M7.1.DWG

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/WB | MIN. REQD TOTAL COOLING BTU/h | MIN. REQD SENSIBLE COOLING BTU/h | DAIKIN EAT--F | MIN. REQD HEATING CAPACITY BTU/h | | POWER V/PH | 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 | 3.4 | 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
9. CONTRACTOR TO FIELD FABRICATE FILTER RACK FOR 1" DISPOSABLE FILTER IN RA DUCTWORK TO FCU. SEE PLANS.

CEILING FAN SCHEDULE

| MARK | SERVING | BASIS-OF-DESIGN MFR | MODEL | FAN DIAMETER (FT) | TYPE | REQUIRED CLEARANCES | | SOUND LEVEL AT MAX SPEED (NOTE 2) | MAX RPM | ELECTRICAL | | | | WT (LBS) | NOTES |
|------|-------------------------|------------------------|-----------|-------------------------|---------|------------------------|--------------------------|---|------------|------------|-------|------------|-------------|-------------|-------|
| | | | | | | ALL SIDES | BELOW CEILING DECK | | | HP | V/PH | MCA (A) | MFS AMPS | | |
| CF-1 | VEHICLE STORAGE VS-01 | BIG ASS FANS | PFX2.0-14 | 14 | CEILING | 2 FT | 4 FT | < 55dBA | 95 | 1.5 | 208/3 | 5.0 | 15 | 309 | 1,3 |
| CF-2 | VEHICLE MAINT. VM-01 | BIG ASS FANS | PFX2.0-10 | 10 | CEILING | 2 FT | 3 FT | < 55dBA | 113 | 1.0 | 208/3 | 3.8 | 10 | 281 | 1,4 |
| CF-3 | LIGHT DUTY REPAIR VM-24 | BIG ASS FANS | PFX2.0-08 | 8 | CEILING | 2 FT | 3 FT | < 55dBA | 113 | 1.0 | 208/3 | 3.8 | 10 | 269 | 1,4 |
| CF-4 | SHIPPING S-23 | BIG ASS FANS | PFX2.0-08 | 8 | CEILING | 2 FT | 3 FT | < 55dBA | 113 | 1.0 | 208/3 | 3.8 | 10 | 269 | 1,5 |

1. AIRFOIL FINISH: MILL FINISH ALUMINUM
WINGLET FINISH: SAFETY YELLOW
2. MEASURED AT BLADE HEIGHT OF 20'-FT AND 20'-FT HORIZONTALLY FROM CENTER OF FAN.
3. SMARTSENSE365 CONTROL #1 - CF-1 AND ROUGH IN FOR FUTURE FAN.
4. SMARTSENSE365 CONTROL #2 - CF-2, CF-3.
5. SMARTSENSE365 CONTROL #3 - CF-4.

RECORD DRAWINGS

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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 | BSVQ60PVJU | 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 | 3 |
| BS-11 | BSVQ36PVJU | FCU-7 | 208/1 | 0.1 | 15 | 15.3x8.1x12.8 | 26 | 3 |
| BS-12 | BSVQ36PVJU | FCU-8 | 208/1 | 0.1 | 15 | 15.3x8.1x12.8 | 26 | 3 |
| BS-13 | BSVQ36PVJU | FCU-9 | 208/1 | 0.1 | 15 | 15.3x8.1x12.8 | 26 | 3 |

1. BRANCH SELECTOR UNIT, (6) PORTS.
2. BRANCH SELECTOR UNIT, (4) PORTS.
3. BRANCH SELECTOR UNIT, SINGLE PORT.

CABINET UNIT HEATER SCHEDULE

| MARK | SERVING | MFR. | MODEL | FAN | | | ELECTRICAL | | | NOTES |
|-------|--------------------|-------|--------|-------------|------|----|------------|------------|------------|-------|
| | | | | NOM. CFM | W | KW | V/PH | MCA (A) | MFS (A) | |
| CUH-1 | PAINT STORAGE M-05 | TRANE | FFJB02 | 153 | 15.0 | 1 | 120/1 | 6.26 | 15 | |
| CUH-2 | CORRIDOR VM-C2 | TRANE | FFJB08 | 483 | 40.0 | 6 | 277/1 | 29.08 | 30 | |
| CUH-3 | ELECTRONICS VM-09 | TRANE | FFJB08 | 483 | 40.0 | 6 | 277/1 | 29.08 | 30 | |
| CUH-4 | CORRIDOR VM-05 | TRANE | FFJB08 | 483 | 40.0 | 6 | 277/1 | 29.08 | 30 | |
| CUH-5 | MUD ROOM S-19 | TRANE | FFJB08 | 483 | 40.0 | 6 | 277/1 | 29.08 | 30 | |
| CUH-6 | LOBBY S-01 | TRANE | FFJB08 | 483 | 40.0 | 6 | 277/1 | 29.08 | 30 | |

1. EAT = 60° F, LAT = 99.30° F

LOUVER SCHEDULE

| MARK | SERVING/USE | BASIS OF DESIGN MANUFACTURER | SIZE WxH | PERFORMANCE | | | NOTES |
|------|--------------|---------------------------------------|--------------|-------------|-------------------|-------------------------|-------|
| | | | | CFM | MIN. FREE AREA | MAX. APD (IN. WC) | |
| L-1 | AHU-1, MAU-5 | RUSKIN | 5'-4"x4'-0" | 8100 | 52% | 0.15 | 1 |
| L-2 | MAU-3, MAU-4 | RUSKIN | 20'-0"x4'-0" | 27,000 | 52% | 0.15 | 1 |
| L-3 | MAU-1, MAU-2 | RUSKIN | 14'-0"x5'-4" | 30,000 | 52% | 0.15 | 1 |

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

GRAVITY ROOF VENTILATOR SCHEDULE

| MARK | SERVING/USE | MANUFACTURER & MODEL | CFM | THROAT SIZE (LXW) | THROAT VELOCITY (FPM) | MAX. APD (IN.W.C.) | DUCT CONN. (LXW-IN.) | NOTES |
|-------|-----------------|-------------------------|------|-------------------------|-----------------------------|--------------------------|----------------------------|-------|
| GRV-1 | LUBE/COMPRESSOR | COOK TRE | 5500 | 48x24 | 687 | 0.20 | 48x24 | 1 |
| GRV-2 | AHU-1 | COOK TRE | 7000 | 42x42 | 569 | 0.15 | --- | 1, 2 |
| GRV-3 | AHU-2 | COOK TRE | 7000 | 42x42 | 569 | 0.15 | --- | 1, 2 |

1. PROVIDE WITH MINIMUM 24-INCH-HIGH SLOPED ROOF CURB FOR STANDING SEAM METAL ROOF. COORDINATE SLOPE AND DESIGN WITH CONFIGURATION OF SPECIFIC APPROVED METAL ROOF TO BE INSTALLED.
2. MOTOR-OPERATED DAMPER (N.C.) SHALL BE CONTROLLED TO BE OPEN WHEN RELATED AHU IS IN COOLING MODE.

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



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

RECORD SET
OCTOBER 24, 2016

STATE OF KENTUCKY SEAL

JOHN D. COAD JR. - ENGINEER
KY #11325

SHEET CONTENT
SCHEDULES

DATE APRIL 16, 2014

SCALE AS SHOWN

DRAWN BY JW

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APPROVED BY KT

PB PROJECT NUMBER 185609B

SHEET NUMBER

M7.1

NOV 29, 2016 10:18 AM WINEBAUGH
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DEDICATED OUTDOOR AIR HANDLING UNIT SCHEDULE

| MARK | BASIS OF DESIGN MFR. | MODEL <div>1</div> | 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 | | TOTAL COOLING MBH | SENSIBLE COOLING MBH | FACE VEL. (FPM) | EAT DB (°F) | EAT WB (°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 | 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 |
| 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.

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 |
| VM-07 | Telecom | Positive | 20 | (1) | 0 | --- | No |

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 | 355 | 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-26 | 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 |
| VM-08 | Toilet | Negative | 0 | (1) | 50 | (1) | Yes |
| VM-09 | Electronics Shop | Positive | 159 | (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 |
| VM-26 | 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 Served by MAU-1 & 2 (100% OA) and Exhausted by EF-1 & 2

| 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 | 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.

| Vehicle Storage Area - 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 |
| VS-01 | Drive Aisle | Positive | 4,189 | (1) | 8,378 | (1) | Yes |
| VS-02 | X-Long | Negative | 942 | (1) | 1,884 | (1) | Yes |
| VS-03 | X-Long | Positive | 942 | (1) | 1,884 | (1) | Yes |
| VS-04 | X-Long | Negative | 1,130 | (1) | 2,261 | (1) | Yes |
| VS-05 | X-Wide | Negative | 1,130 | (1) | 2,261 | (1) | Yes |
| VS-06 | X-Wide | Negative | 1,116 | (1) | 2,232 | (1) | Yes |
| VS-07 | X-Wide | Negative | 1,131 | (1) | 2,262 | (1) | Yes |
| VS-08 | X-Wide | Positive | 1,146 | (1) | 2,292 | (1) | Yes |
| VS-09 | X-Wide | Negative | 1,146 | (1) | 2,292 | (1) | Yes |
| VS-10 | X-Long | Positive | 955 | (1) | 1,910 | (1) | Yes |
| VS-11 | X-Long | Negative | 955 | (1) | 1,910 | (1) | Yes |

Notes for Vehicle Storage Pressurization:

- (1) 2012 IMC (0.05-0.75 CFM/SF)
(2) Airflow required by good engineering practice to remove vehicle exhaust when all ten (10) are in operation is 1.5 CFM/SF.
(3) Entire area is one single room. Pressure relationships in spaces vary depending on placement of supply diffusers and exhaust registers. Half of air is exhausted at high point of roof and half at 12" above floor. Overall room is Equal pressure.

Support Telecom Served by CRU-1/CU-3 with OA from AHU-1 (DOAS)

| Support Telecom - Air Balance Schedule | | | | |
|--|-----------|-----------------|-----------------|-------|
| Room No. | Room Name | Outdoor Air CFM | Exhaust Air CFM | Notes |
| S-16 | Telecom | 20 | 0 | [1] |

Notes for Support Telecom Air Balance:

- [1] Air Balance by exfiltration to Coridor.

| Support 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 |
| S-16 | Telecom | Positive | 20 | (1) | 0 | NA | No |

Notes for Support Telecom Pressurization:

- (1) ASHRAE 62.1-2007

RECORD DRAWINGS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY THE GENERAL CONTRACTOR AND/OR OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PARSONS BRINCKERHOFF ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT.

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BRINCKERHOFF**

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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
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

RECORD SET
OCTOBER 24, 2016

STATE OF KENTUCKY SEAL

JOHN D. COAD JR. - ENGINEER
KY #11325

SHEET CONTENT
SCHEDULES

DATE APRIL 16, 2014
SCALE AS SHOWN
DRAWN BY JW
CHECKED BY GJ
APPROVED BY KT

PB PROJECT NUMBER 185609B

SHEET NUMBER

M7.2

| 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 | | | | REMARKS |
| | | | | | | | MCA | MOCP | VOLTAGE | PHASE | HZ | AIR TEMP (°F) | | CAPACITY INPUT (MBH) | CAPACITY OUTPUT (MBH) | |
| | | | | | | | | | | | | EAT DB (°F) | LAT DB (°F) | | | |
| 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-FABRICATED PITCHED ROOF CURB.
4. PROVIDE WITH FACTORY MOUNTED AND WIRED VARIABLE SPEED DRIVE FANS WITH DISCONNECTS.
5. PROVIDE WITH MERV 8 FILTERS.

| NO. | DATE | DESCRIPTION |
|-----|------------|----------------------|
| | | |
| 1 | 11-20-2024 | BID/FERMIT |
| 2 | 12-23-2024 | FOR CONSTRUCTION SET |

Blue Grass Airport Regional

Training Center Modernization

4832 Versailles Road

Lexington, KY 40510



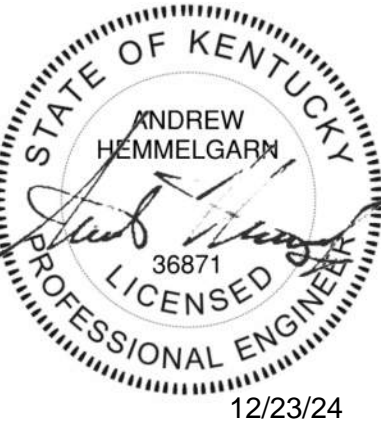
KZF DESIGN INC.

700 Broadway Street

Cincinnati, OH 45202

main 513.621.6211

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| | |
|----------|------------|
| DESIGNED | COMM. NO. |
| CARROLL | 8180.00 |
| DRAWN | DATE |
| CARROLL | 12-23-2024 |
| CHECKED | PROJ. MGR. |
| FYE | CSENDES |

SCHEDULES

| 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 | | | | NET SENSIBLE CAP (MBH) | NET TOTAL CAP (MBH) | |
| | | | | | | | | | | | | EAT DB (°F) | LAT DB (°F) | | | EAT DB (°F) | EAT WB (°F) | LAT DB (°F) | LAT WB (°F) | | | |
| 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 | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------|-----------------|--------|----------------|-------------|--------------------|----------------|------------------|---------------------|-------------------|--------|--------|--------|---------|---------|---------|---------|---------|
| MARK | MANUFACTURER | MODEL NUMBER | SERVES | SYSTEM TYPE | GEOMETRY | SIZE W X H (IN) | LENGTH (IN) | AIRFLOW (CFM) | MAX. SP. (IN WG) | SOUND ATTENUATION | | | | | | | | REMARKS |
| | | | | | | | | | | 63 HZ | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | 8000 HZ | |
| SDA-1 | PRICE | RM120/4G | RTU-1 | RETURN | RECTANGULAR | 19 X 19 | 120 | 1440 | 0.28 | 24 | 38 | 55 | 55 | 55 | 55 | 43 | 24 | 1 |

1. TYPE: ABSORPTIVE / DISSIPATIVE.

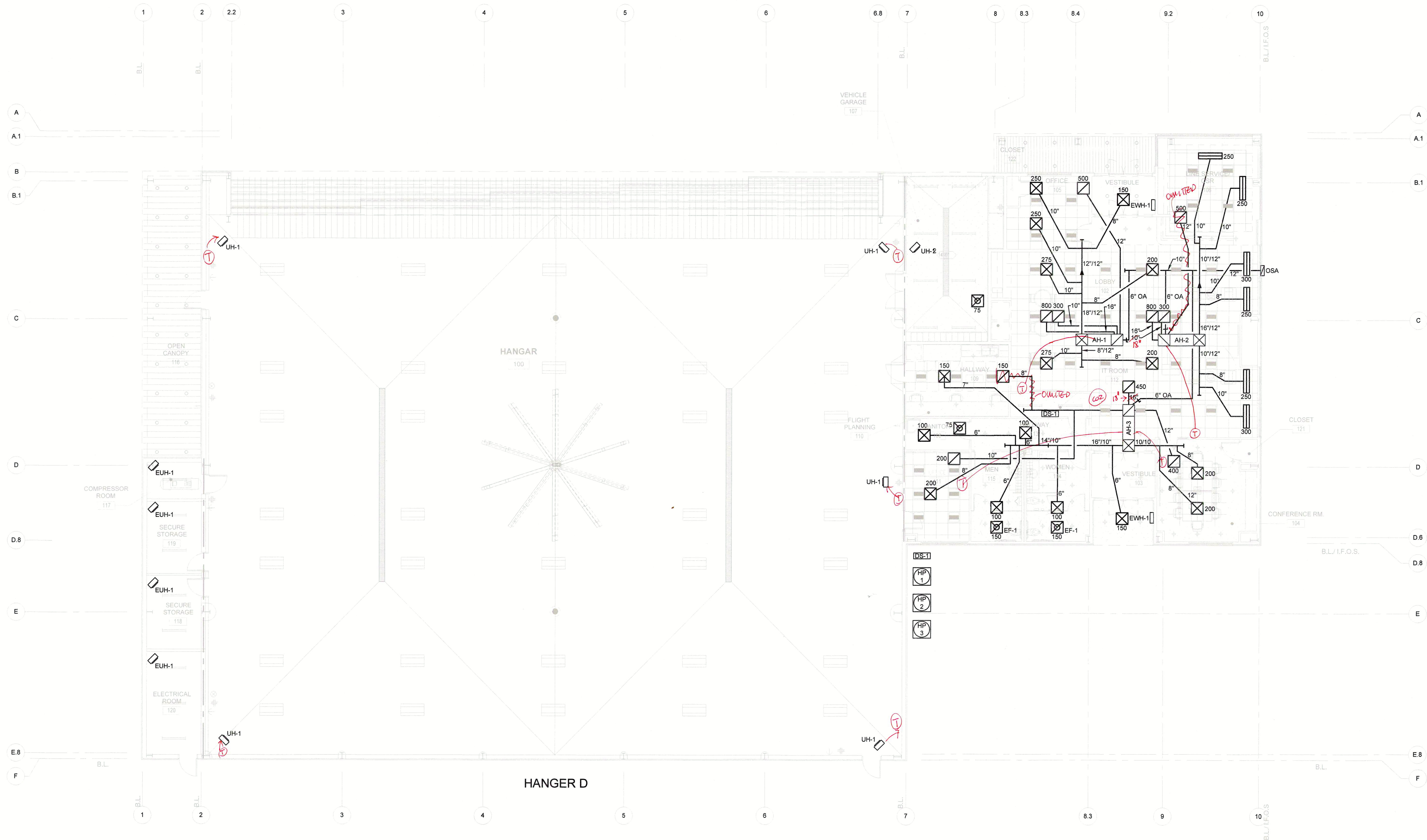
| AUTOMATIC AIR DAMPER SCHEDULE | | | | | |
|-------------------------------|---------|-------------|--------------------|------------------|---------|
| MARK | SERVICE | SYSTEM | SIZE W x H (IN) | AIRFLOW (CFM) | REMARKS |
| AAD-1 | IH-1 | OUTSIDE AIR | 8X8 | 185 CFM | 1 |
| AAD-2 | L-1 | OUTSIDE AIR | 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 | | | | | | | | | | | | | | | | | Designer: CARROLL Engineer: CARROLL | | |
|---|-------------|-----------------------|---------|--------------------------|---------------------------------------|---------------|-------------------------|--------------------------|---------------|-------------------------------|-----------------|--------------|---------------|--------------|---------------|---------------------|--|-------------------------|--|
| Project: ARFF Training Center Job No: 8180.00 | | | | | | | | | | | | | | | | | | | |
| Unit # | Room Number | Room Name | Az Area | Occupancy Classification | TBL 6-1 occ density peo/1000 sf | Pz population | TBL 6-1 Rp peo oa | TBL 6-1 Ra area oa | Vbz oa cfm | TBL 6-2 Ez air dist eff | Voz oa req'd | req'd cfm | design cfm | %oa req'd | system %oa | Acutal OA cfm | Exhaust cfm / sf | req'd exhaust cfm | |
| FCU-1 | 116 | Hallway | 181 | Corridors | 0 | 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 | 0.12 | 36 | 0.8 | 46 | 48 | 305 | 15% | 100% | 305 | 1 | 305 | |
| | 122 | Gear Storage | 637 | Storage rooms | 0 | 0 | 0 | 0.12 | 76 | 0.8 | 96 | 86 | 640 | 15% | 100% | 640 | 1 | 640 | |
| | 123 | Gear Wash Dry Room | 187 | Storage rooms | 0 | 0 | 0 | 0.12 | 22 | 0.8 | 29 | 29 | 190 | 15% | 100% | 190 | 1 | 190 | |
| | | | | | | | | | | | | 163 | 1,135 | | | 1,135 | | 1,135 | |
| L-1 | 118 | Apparatus Bay | 1,976 | Parking garage | 0 | 16 | 0 | 0 | 0 | 0.8 | 0 | | | 0% | 100% | 0 | 0.75 | 1,485 | |
| | 119 | Hose Storage & Drying | 190 | Storage rooms | 0 | 0 | 0 | 0.12 | 23 | 0.8 | 29 | | | 0% | 100% | 0 | 1 | 190 | |
| | 120 | SCBA Clean Room | 239 | Storage rooms | 0 | 4 | 0 | 0.12 | 29 | 0.8 | 36 | | | 0% | 100% | 0 | 1 | 240 | |
| | | | | | | | | | | | | 0 | 0 | | | 0 | | | |
| OUTSIDE VENTILATION AIR DESIGN IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE SECTION 403.2 | | | | | | | | | | | | | | | | | | | |
| <div><div><div>Vbz = (Rp * Pz) + (Ra * Az)</div><div>Vbz = Breathing zone outdoor air flow</div><div>Rp = Outdoor air flow rate per person (table 6-1)</div><div>Pz = Zone population - maximum occupancy (table 6-1)</div><div>Ra = Outdoor air flow rate per unit area (table 6-1)</div><div>Az = Zone floor area</div></div><div><div>Voz = Vbz / Ez</div><div>Voz = Zone outdoor air flow</div><div>Vbz = Breathing zone outdoor air flow (calculated)</div><div>Ez = Zone air distribution effectiveness (table 6-2)</div><div>Ez = 0.80 (based on ceiling supply, ceiling return)</div></div></div> | | | | | | | | | | | | | | | | | | | |



- * 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 8'.
7. CONDENSATE LINES TO BE RUN IN A/C COPPER.
8. PROVIDE SECONDARY DRAIN SAFETY SWITCHES.
9. PROVIDE PROGRAMMABLE THERMOSTATS WITH AUTO CHANGEOVER.
10. FLEXIBLE DUCTS SHALL BE LESS THAN 8' LONG.
11. TOILET EXHAUST VENTS SHALL BE MIN. 10' FROM FRESH AIR INTAKES.
12. GAS PIPING BY THE PLUMBER WITH DIRT LEGS AT ALL EQUIPMENT.
13. A/C LINE VOLTAGE WIRING AND DISCONNECTS BY THE ELECTRICIAN.
14. DAMPER ALL SUPPLY AND RETURN RUNS AT TAKEOFFS TO BALANCE THE SYSTEMS.
15. PROVIDE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN 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 AL SYSTEMS IN EXCESS OF 2000 CFM.
21. BACK DRAFT DAMPERS (BDD) TO BE COUNTER BALANCED.

EQUIPMENT

HP-1 LENNOX 4-TON 208/230V 3PH 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 -1Ø 3KW 14.5AMPS

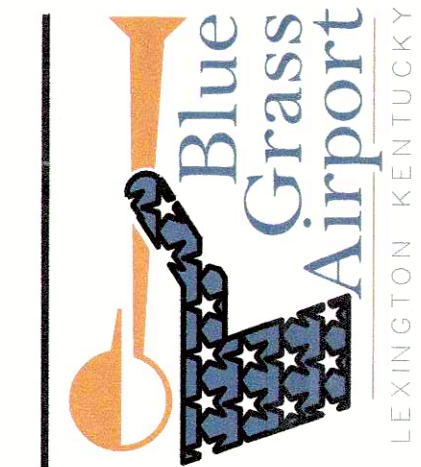
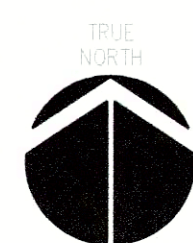
VENTILATION CALCULATIONS

CALCULATIONS BASED ON THE 2012 MECHANICAL CODE TABLE 40.3

OFFICE (OFFICE SPACE)
 = (634 SQFT X 0.06 CFM/SF) + (2 PERSON/1000 SF X 5 CFM/PERSON)
 = 78 CFM
 BAR AREA (FOOD & BEVERAGE SERVICE)
 = (320 SQFT X 0.18CFM/SF) + (15 PEOPLE/1000 SF X 7.5CFM/PERSON)
 = 171 CFM
 CORRIDOR (CORRIDOR)
 = (316 SQFT X 0.06CFM/SQFT)
 = 19CFM
 ENTRY (MAIN ENTRY LOBIES)
 = (1123 SQFT X 0.08 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 FRSH AIR TO THE SPACE

HVAC PLAN

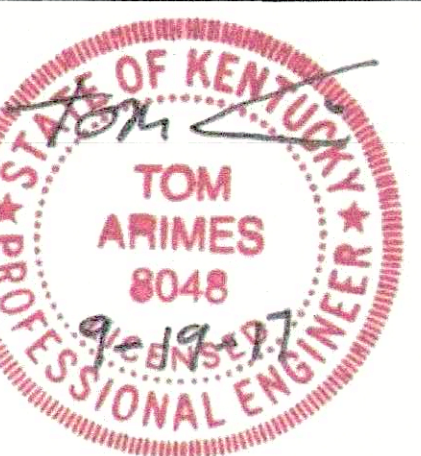
1/8"=1'-0"



WestLEX HANGER FOR:
WESTSIDE GENERAL AVIATION AREA
 4000 TERMINAL DRIVE
 LEXINGTON, KY. 40510

C:\Users\fulcrum\OneDrive\Files\Projects\Documents\BlueGrass\Callings\logo_color.png

200 BIG RUN ROAD / LEXINGTON KENTUCKY 40503 / 859-523-9407



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|--------------------------|---------------|
| CHECKED BY: | |
| REVISION: | |
| OWNER REVIEW DOCS. | MAY 23, 2017 |
| SITE / FOUNDATION PERMIT | MAY 30, 2017 |
| RELEASE-1 PRE CONST. | JUNE 23, 2017 |
| SITE / FDN PERMIT UPDATE | JULY 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