

| ROOFTOP UNIT SCHEDULE |          |             |                |             |                      |             |            |                |                |                        |                         |                |                           |                           |                     |                   |                      |                    |
|-----------------------|----------|-------------|----------------|-------------|----------------------|-------------|------------|----------------|----------------|------------------------|-------------------------|----------------|---------------------------|---------------------------|---------------------|-------------------|----------------------|--------------------|
| ID                    | LOCATION | SERVES      | SUPPLY FAN CFM | MOTOR DRIVE | MIN. OUTDOOR AIR CFM | ESP (IN WG) | MOTOR (HP) | VOLTAGE/ PHASE | HEATING MEDIUM | HEATING INPUT CAPACITY | HEATING OUTPUT CAPACITY | COOLING MEDIUM | GROSS COOL CAPACITY (MBH) | SENS. COOL CAPACITY (MBH) | FILTER SIZE/ NUMBER | FILTER EFFICIENCY | MANUFACTURER         | REMARKS            |
| RTU-1                 | ROOF     | SALES FLOOR | 8,400          | DIRECT      | 2,400                | 1.5         | 7.5        | 208/3          | GAS            | 405.0 MBH              | 328.1 MBH               | R-410A         | 287.1                     | 160.1                     | 16X20X2-9           | MERV 8            | CES-MPU-025E-RH-0003 | (1)(2)(3)(4)(4)(6) |
| RTU-2                 | ROOF     | OFFICE AREA | 600            | DIRECT      | 150                  | 0.5         | 1/4        | 208/1          | GAS            | 65.0 MBH               | 52.0 MBH                | R-410A         | 24.4                      | 23.6                      | 16X20X2-4           | 30%               | LENNOX KGB02454D     | (6)(7)(8)(9)       |
| RTU-3                 | ROOF     | TENANT      | 4,000          | DIRECT      | 950                  | 1.5         | 3          | 208/3          | ELEC           | 60.0 KW                | 153.6 MBH               | R-410A         | 61.3                      | 42.3                      | 20X25X2-4           | 30%               | LENNOX KCB12054BL    | (6)(7)(8)(9)       |

- PROVIDE 14" HIGH INSULATED ROOF CURB & BURGLAR BARS ON SUPPLY AND RETURN OPENINGS. RTU-1 ROOF CURB IS BY AES INDUSTRIES CONTACT GEORGE LASHER T(800)786-0402 X 216. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PURCHASING THE ROOF CURB DIRECTLY FROM AES INDUSTRIES.
- PROVIDE WITH THROUGH THE BASE SINGLE POINT ELECTRICAL CONNECTION, DISCONNECT, VFD 2-SPEED OPERATION, OA HOOD, PROOF AIRFLOW SWITCH, CLOGGED FILTER SWITCH, STAINLESS STEEL DRAIN PAN, 120V CONVENIENCE OUTLET, REHEAT COIL, & DEHUMIDIFICATION CONTROL.
- UNIT SUPPLIED BY OWNER, RECEIVED, RIGGED AND INSTALLED BY MECHANICAL CONTRACTOR.
- ROOFTOP UNIT CONTROLLER IS FACTORY INSTALLED IN THE CES MULTI-PATH MPU. SPACE TEMPERATURE, SUPPLY AIR TEMPERATURE & SPACE HUMIDITY SENSORS ARE SUPPLIED BY CD CONTROLS AND SHIPPED TO REFRIGERATION CONTRACTOR FOR FIELD INSTALLATION.
- CES MULTI-PATH MPU IS MANUFACTURED BY AAO INC. (PRODUCTION 10 - 12 WEEKS) TO COORDINATE MPU SHIPPING OR FOR TECHNICAL SUPPORT CONTACT CES INC. T(866)706-2647 X222, ALDIORDERS@CESINC.COM
- MECHANICAL CONTRACTOR TO REVIEW AND CONFIRM RTU SETPOINTS/STORE HOURS WITH ALDI DIRECTOR OF REAL ESTATE AND SIEMENS ENERGY MANAGEMENT USER GUIDE.
- PROVIDE WITH GLOBAL ECONOMIZER SECTION AND BAROMETRIC RELIEF DAMPERS.
- ALDI HAS A NATIONAL ACCOUNT WITH LENNOX INDUSTRIES. ALL LENNOX HVAC EQUIPMENT SHOULD BE QUOTED AND ORDERED THROUGH LENNOX NATIONAL ACCOUNTS. PLEASE CALL 800-367-6285 AND HIT "Z" FOR SALES AND ASK FOR THE ALDI'S NATIONAL ACCOUNT SALES ADMINISTRATOR WHO WILL ASSIST YOU WITH QUOTES, AVAILABILITY AND ORDERS.
- PROVIDE 14" HIGH INSULATED ROOF CURB & BURGLAR BARS ON SUPPLY AND RETURN OPENINGS. FIELD VERIFY LOCATION.

| DUCTLESS SPLIT FAN COIL UNIT SCHEDULE |          |          |            |                      |             |     |              |                |                       |                       |        |                     |                   |              |              |                         |
|---------------------------------------|----------|----------|------------|----------------------|-------------|-----|--------------|----------------|-----------------------|-----------------------|--------|---------------------|-------------------|--------------|--------------|-------------------------|
| ID                                    | LOCATION | SERVES   | SUPPLY FAN |                      |             |     | COOLING COIL |                |                       | HEATING COIL          |        | FILTER SIZE/ NUMBER | FILTER EFFICIENCY | MANUFACTURER | REMARKS      |                         |
|                                       |          |          | SUPPLY CFM | MIN. OUTDOOR AIR CFM | ESP (IN WG) | RPM | MCA          | VOLTAGE/ PHASE | GROSS CAPACITY (BTUH) | SENS. CAPACITY (BTUH) | MEDIUM |                     |                   |              |              | HEATING CAPACITY (BTUH) |
| FCU-1                                 | CEILING  | BREAK RM | 300        | 30                   | -           | -   | -            | 208/1          | 9,900                 | -                     | R-410A | 12,100              | -                 | MERV 8       | LG-LCN097HV4 | (1)(2)(3)(4)(5)         |

- DUCTLESS SPLIT FAN COIL UNIT SHALL BE ORDERED, RECEIVED AND INSTALLED BY THE CONTRACTOR. THE EQUIPMENT COST SHALL BE BILLED DIRECTLY TO ALDI. FOR ORDERING INFO CONTACT MIKE THORNE AT MTHORNE@MEIERSUPPLY.COM OR BY PHONE 607-797-7700.
- PROVIDE WITH DRY CONTACT FIDUCY-330 (INSTALLED BY REFRIGERATION CONTRACTOR) FOR INTEGRATION WITH SIEMENS BMS. CONTROLLED BY WALL MOUNTED TEMPERATURE SENSOR PROVIDED SIEMENS AND INSTALLED BY THE REFRIGERATION CONTRACTOR. REFER TO DRAWING EMS-1 FOR DETAILS.
- COORDINATE REFRIGERANT LINE SIZING PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WITH MATCHING AIR COOLED HEAT PUMP SCHEDULED.
- PROVIDE VENTILATION KIT PTK430, INLINE BOOSTER FAN (S&P USA TD100), CASSETTE GRILLE & CONDENSATE PUMP. INLINE BOOSTER FAN TO BE INSTALLED BY THE MECHANICAL CONTRACTOR; POWER WIRING BY THE ELECTRICIAN, CONTROL RELAY AND WIRING BY REFRIGERATION CONTRACTOR. INLINE BOOSTER FAN SHALL RUN WHEN THE FAN COIL UNIT OPERATES.

| AIR COOLED HEAT PUMP SCHEDULE |          |              |                              |                    |                              |             |                       |      |                      |                          |                |      |      |              |         |
|-------------------------------|----------|--------------|------------------------------|--------------------|------------------------------|-------------|-----------------------|------|----------------------|--------------------------|----------------|------|------|--------------|---------|
| ID                            | LOCATION | SERVES       | TOTAL COOLING CAPACITY (MBH) | OUTDOOR TEMP. (DB) | TOTAL HEATING CAPACITY (MBH) | REFRIGERANT | NUMBER OF COMPRESSORS | SEER | REFRIGERANT CIRCUITS | NUMBER OF CONDENSER FANS | VOLTAGE/ PHASE | MCA  | MOCF | MANUFACTURER | REMARKS |
| HP-1                          | BACK RM  | FCU-1/OFFICE | 9.9                          | 95                 | 12.1                         | R-410A      | 1                     | 20.2 | 1                    | 1                        | 208/1          | 11.9 | 15.0 | LG-LU097HV   | (1)(2)  |

- DUCTLESS SPLIT FAN COIL UNIT SHALL BE ORDERED, RECEIVED AND INSTALLED BY THE CONTRACTOR. THE EQUIPMENT COST SHALL BE BILLED DIRECTLY TO ALDI. FOR ORDERING INFO CONTACT MIKE THORNE AT MTHORNE@MEIERSUPPLY.COM OR BY PHONE 607-797-7700.
- PROVIDE WITH MATCHING DUCTLESS SPLIT FAN COIL.

| VENTILATION RATE SCHEDULE (ALDI)                 |                 |              |                    |                           |                 |                |                   |                           |                |
|--|-----------------|--------------|--------------------|---------------------------|-----------------|----------------|-------------------|---------------------------|----------------|
| INTERNATIONAL MECHANICAL CODE 2015 - TABLE 403.3 |                 |              |                    |                           |                 |                |                   |                           |                |
| ROOM NUMBER                                      | ROOM NAME       | IMC CATEGORY | GROSS AREA (SQ.FT) | OCCUPANTS PER 1000 SQ.FT. | TOTAL OCCUPANTS | CFM PER PERSON | CFM PER SQ.FT.    | VENTILATION EFFECTIVENESS | REQ'D OA (CFM) |
| 101,102  | SALES/VESTIBULE | SUPERMARKET  | 14,090             | 8                         | 113             | 7.5            | 0.06              | 0.80                      | 2114           |
| 103  | WOMENS          | TOILET RM.   | 110                | -                         | -               | -              | 50 <sup>(1)</sup> | 0.80                      | 50             |
| 104  | HALL            | CORRIDOR     | 79                 | -                         | -               | -              | 0.06              | 0.80                      | 6              |
| 105  | MENS            | TOILET RM.   | 111                | -                         | -               | -              | 50 <sup>(1)</sup> | 0.80                      | 100            |
| 106  | BREAK ROOM      | CONFERENCE   | 488                | 50                        | 24              | 5.0            | 0.06              | 0.80                      | 189            |
| 107  | OFFICE          | OFFICE SPACE | 342                | 5                         | 2               | 5.0            | 0.06              | 0.80                      | 34             |
| 109  | BACK ROOM       | WAREHOUSE    | 4,733              | -                         | -               | -              | 0.06              | 0.80                      | 355            |
| 110  | FUTURE          | WAREHOUSE    | 1,130              | -                         | -               | -              | 0.06              | 0.80                      | 85             |
| TOTAL OA REQUIRED:                               |                 |              |                    |                           |                 |                |                   |                           | 2,850          |
| TOTAL OA PROVIDED:                               |                 |              |                    |                           |                 |                |                   |                           | 2,600          |

- RATE PER WATER CLOSET/URINAL WITH EXHAUST OPERATING CONTINUOUSLY DURING OCCUPIED HOURS.

| VENTILATION RATE SCHEDULE (TENANT)               |           |              |                    |                           |                 |                |                   |                           |                |
|--|-----------|--------------|--------------------|---------------------------|-----------------|----------------|-------------------|---------------------------|----------------|
| INTERNATIONAL MECHANICAL CODE 2015 - TABLE 403.3 |           |              |                    |                           |                 |                |                   |                           |                |
| ROOM NUMBER                                      | ROOM NAME | IMC CATEGORY | GROSS AREA (SQ.FT) | OCCUPANTS PER 1000 SQ.FT. | TOTAL OCCUPANTS | CFM PER PERSON | CFM PER SQ.FT.    | VENTILATION EFFECTIVENESS | REQ'D OA (CFM) |
| --   | TENANT    | STORAGE      | 2,240              | 15                        | 42              | 7.5            | 0.12              | 0.80                      | 818            |
| --   | STORAGE   | STORAGE      | 378                | -                         | -               | -              | 0.12              | 0.80                      | 57             |
| --   | MENS      | TOILET RM.   | 110                | -                         | -               | -              | 50 <sup>(1)</sup> | 0.80                      | 50             |
| TOTAL OA REQUIRED:                               |           |              |                    |                           |                 |                |                   |                           | 925            |
| TOTAL OA PROVIDED:                               |           |              |                    |                           |                 |                |                   |                           | 950            |

- RATE PER WATER CLOSET/URINAL WITH EXHAUST OPERATING CONTINUOUSLY DURING OCCUPIED HOURS.

| DESTRATIFICATION FAN SCHEDULE |             |           |       |        |       |         |     |         |              |           |
|-------------------------------|-------------|-----------|-------|--------|-------|---------|-----|---------|--------------|-----------|
| ID                            | SERVES      | LOCATION  | TYPE  | DRIVE  | CFM   | FAN RMP | HP  | VOLTAGE | MANUFACTURER | REMARKS   |
| DF-1                          | SALES FLOOR | SUSPENDED | CENT. | DIRECT | 1,061 | 1,550   | 31W | 120/1   | AIR-ROW F-18 | (1)(2)    |
| DF-2                          | SALES FLOOR | SUSPENDED | CENT. | DIRECT | 1,061 | 1,550   | 31W | 120/1   | AIR-ROW F-18 | (1)(2)(3) |
| DF-3                          | SALES FLOOR | SUSPENDED | CENT. | DIRECT | 1,061 | 1,550   | 31W | 120/1   | AIR-ROW F-18 | (2)(3)    |

- FAN PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. CONTACT MIKERSUPPLY.COM FOR FRESH AIR SOURCE ENERGY SOLUTIONS (416) 544-8008. SUPPORT FAN FROM BUILDING STRUCTURE WITH BEAM CLAMPS AND DRAFT CABLES. INSTALL "O" BEAMS IN ROOF OF DECK AND PER MANUFACTURER'S RECOMMENDATIONS.
- FAN SHALL RUN CONTINUOUSLY. WIRING PROVIDED BY DIVISION 26. FACTORY SHALL RESET FAN SPEED TO MINIMUM.
- FAN TO BE FACTORY PAINTED TO MATCH BUILDING STRUCTURE. NO MANUFACTURER'S FINISHES.

| EXHAUST FAN SCHEDULE |            |          |       |        |     |                  |         |      |         |                   |           |
|----------------------|------------|----------|-------|--------|-----|------------------|---------|------|---------|-------------------|-----------|
| ID                   | SERVES     | LOCATION | TYPE  | DRIVE  | CFM | EXT. SP. IN. WG. | FAN RMP | HP   | VOLTAGE | MANUFACTURER      | REMARKS   |
| EF-1                 | BREAK ROOM | ROOF     | CENT. | DIRECT | 300 | 0.375            | 1,319   | 1/30 | 120/1   | GREENHECK G-070-D | (1)(2)(3) |
| EF-2                 | BACK ROOM  | ROOF     | CENT. | DIRECT | 300 | 0.375            | 1,219   | 1/4  | 120/1   | GREENHECK G8-131  | (2)(3)(4) |
| EF-3                 | TOILETS    | ROOF     | CENT. | DIRECT | 300 | 0.375            | 1,319   | 1/20 | 120/1   | GREENHECK G-080-D | (2)(3)(4) |
| EF-4                 | TOILETS    | ROOF     | CENT. | DIRECT | 150 | 0.250            | 1,319   | 1/30 | 120/1   | GREENHECK G-070-D | (1)(2)(3) |
| EF-5                 | BACK ROOM  | ROOF     | CENT. | DIRECT | 500 | 0.375            | 1,550   | 1/15 | 120/1   | GREENHECK G-090-D | (2)(3)(4) |

- CONTROLLED BY WALL SWITCH PROVIDED AND WIRED BY DIVISION 26.
- PROVIDE SPEED CONTROL MOUNTED ON EXHAUST DUCT ABOVE CEILING.
- PROVIDE WITH 14" HIGH INSULATED ROOF CURB, DAMPER TRAY AND BACKDRAFT DAMPER.
- CONTROLLED BY SIEMENS ENERGY MANAGEMENT SYSTEM.
- CONTROLLED BY THERMOSTAT TO BE MOUNTED NEAR EXHAUST FAN WITH TEMPERATURE SET POINT AT 85° F.
- PROVIDE WITH GRAVITY DAMPER, WALL HOUSING AND WEATHER HOOD.

| AIR DEVICE SCHEDULE |          |          |           |           |                 |                  |        |              |         |
|---------------------|----------|----------|-----------|-----------|-----------------|------------------|--------|--------------|---------|
| ID                  | SERVES   | TYPE     | FACE SIZE | NECK SIZE | CONST. MATERIAL | CEILING MOUNTING | MAX NC | MANUFACTURER | REMARKS |
| D-1                 | SUPPLY   | DIFFUSER | 24x24     | SEE PLANS | STEEL           | T-BAR            | 20     | PRICE SCDA   | (1)     |
| D-2                 | SUPPLY   | JET SLOT | 48x24     | 10"Ø      | STEEL           | T-BAR            | 20     | PRICE JS210  | (2)(3)  |
| D-3                 | SUPPLY   | 6-WAY    | 30x12     | 40x12     | STEEL           | THREADED ROD     | 20     | (4)          |         |
| R-1                 | RETURN   | PERF.    | 24x24     | 12x12     | STEEL           | T-BAR            | 20     | PRICE PDDR   | (1)     |
| R-2                 | TRANSFER | GRILLE   | 48x12     | 48x12     | STEEL           | GW8              | 20     | PRICE S30    | (2)     |
| R-3                 | RETURN   | GRILLE   | 12x6      | 12x6      | STEEL           | GW8              | 20     | PRICE S30    | (2)     |
| E-1                 | EXHAUST  | PERF.    | 12x12     | 10x10     | STEEL           | T-BAR            | 20     | PRICE PDDR   | (1)     |

- COORDINATE CEILING TYPE WITH ARCHITECTURAL CEILING PLAN.
- PROVIDE PRIMED FINISH. AIR DEVICE TO BE PAINTED IN THE FIELD.
- PROVIDE WITH ONE (1) 1" SLOT, 24" TALL INTERNALLY INSULATED PLENUM, VOLUME DAMPER & CABLE OPERATOR.
- MAKE/MODEL: SPINNAKER INDUSTRIES, INC./SP1177 OR EQUAL BY ADAPTABLE AIR PRODUCTS, AES INDUSTRIES OR UNITED ENERTECH.

| UNIT HEATER SCHEDULE |          |            |                |                 |      |     |         |                 |         |
|----------------------|----------|------------|----------------|-----------------|------|-----|---------|-----------------|---------|
| ID                   | LOCATION | TYPE       | INPUT CAPACITY | OUTPUT CAPACITY | CFM  | HP  | VOLTAGE | MANUFACTURER    | REMARKS |
| UH-1                 | BACKROOM | POWER VENT | 75.0 MBH       | 60.0 MBH        | 1200 | 1/8 | 120/1   | LENNOX LF24-75A | (1)     |
| UH-2                 | BACKROOM | POWER VENT | 75.0 MBH       | 60.0 MBH        | 1200 | 1/8 | 120/1   | LENNOX LF24-75A | (1)     |

- CONTROLLED BY THE SIEMENS ENERGY MANAGEMENT SYSTEM. TEMPERATURE SETPOINT SHALL BE 60°F.

| SYMBOLS & ABBREVIATIONS |                                  |
|-------------------------|----------------------------------|
|                         | DUCT UP                          |
|                         | DUCT DOWN                        |
|                         | TEMPERATURE SENSOR               |
|                         | HUMIDISTAT                       |
|                         | SMOKE DETECTOR                   |
|                         | DISCHARGE AIR TEMPERATURE SENSOR |
|                         | SINGLE BLADE VOLUME DAMPER       |
|                         | OPPOSED BLADE VOLUME DAMPER      |
|                         | DUCTWORK WITH 1" INTERNAL LINING |
|                         | 12X12 SHEETMETAL ACCESS DOOR     |
|                         | FIRE DAMPER WITH ACCESS DOOR     |
|                         | ROUND CONCENTRIC TAKEOFF         |
|                         | BELL MOUTH TAKEOFF               |
|                         | BOD                              |
|                         | EF                               |
|                         | RTU                              |
|                         | UH                               |
|                         | FCU                              |
|                         | HP                               |

**DUCT SMOKE DETECTOR SYSTEM SPECIFICATION**  
 DUCT SMOKE DETECTOR SHALL BE SYSTEM SENSOR MODEL D4120 SERIES 4 WIRE, 120V PHOTOELECTRIC HOUSING SHALL BE UL LISTED PER UL288A. PROVIDE REMOTE TEST STATION WITH KEY, RTS151KEY AND REMOTE ANNUNCIATOR. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE DUCT MOUNTED SMOKE DETECTOR.

| Issued:             | Date:    |
|---------------------|----------|
| A Client Review Set | 02/15/19 |
| B Bid Set           | 03/08/19 |
| C                   |          |
| D                   |          |
| Revisions:          | Date:    |
| 1                   |          |
| 2                   |          |
| 3                   |          |
| 4                   |          |
| 5                   |          |
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| 8                   |          |

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Seal

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 DANIEL E. DOWLER No. 042448  
 EXP. DATE: 12/31/2019

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 Project Name & Location:

| HVAC Legend & Schedules |             |
|-------------------------|-------------|
| Drawing Name:           |             |
| Prototype Rls.          | Project No. |
|                         | 40452-25    |
| Type: v7.1              |             |
|                         | H-201       |
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