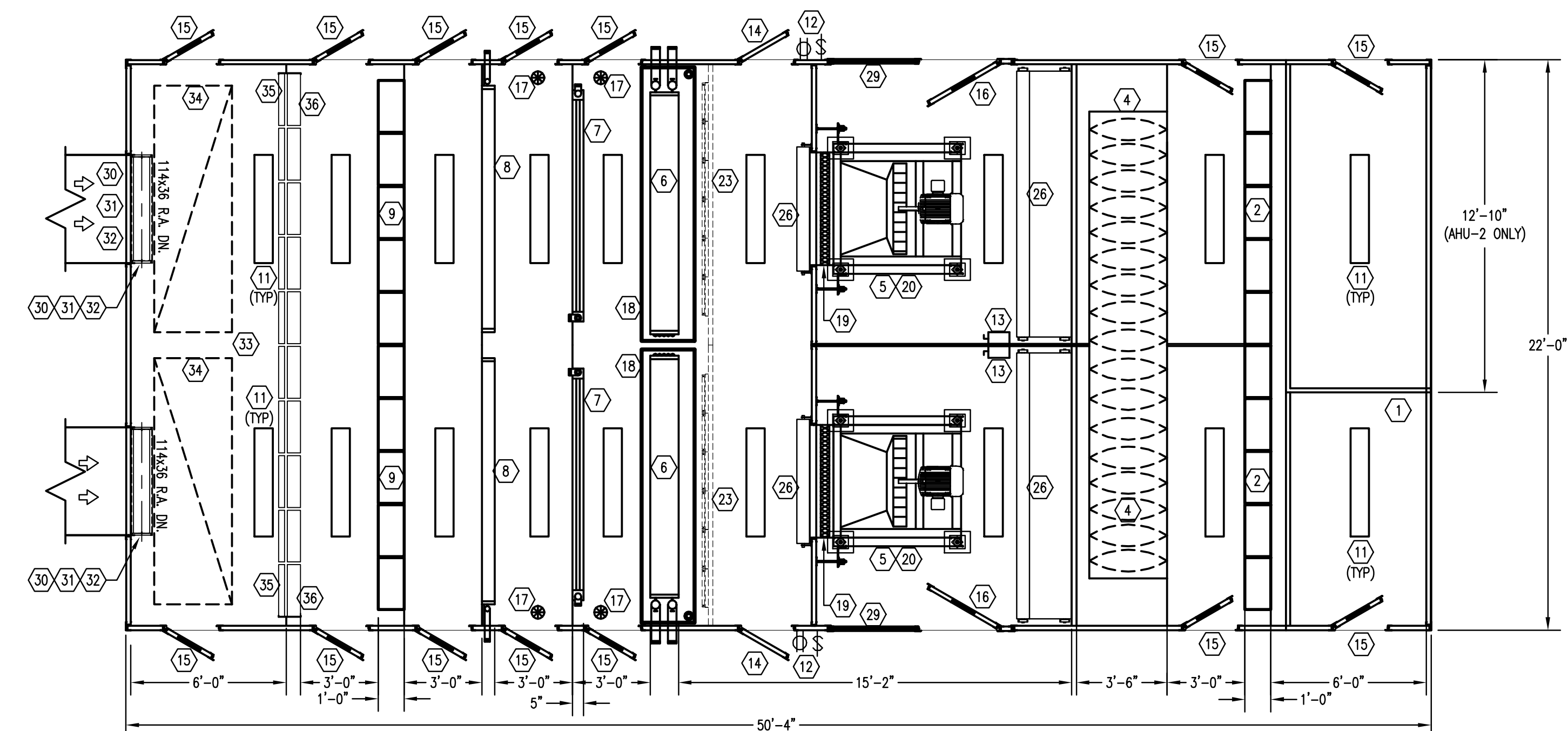
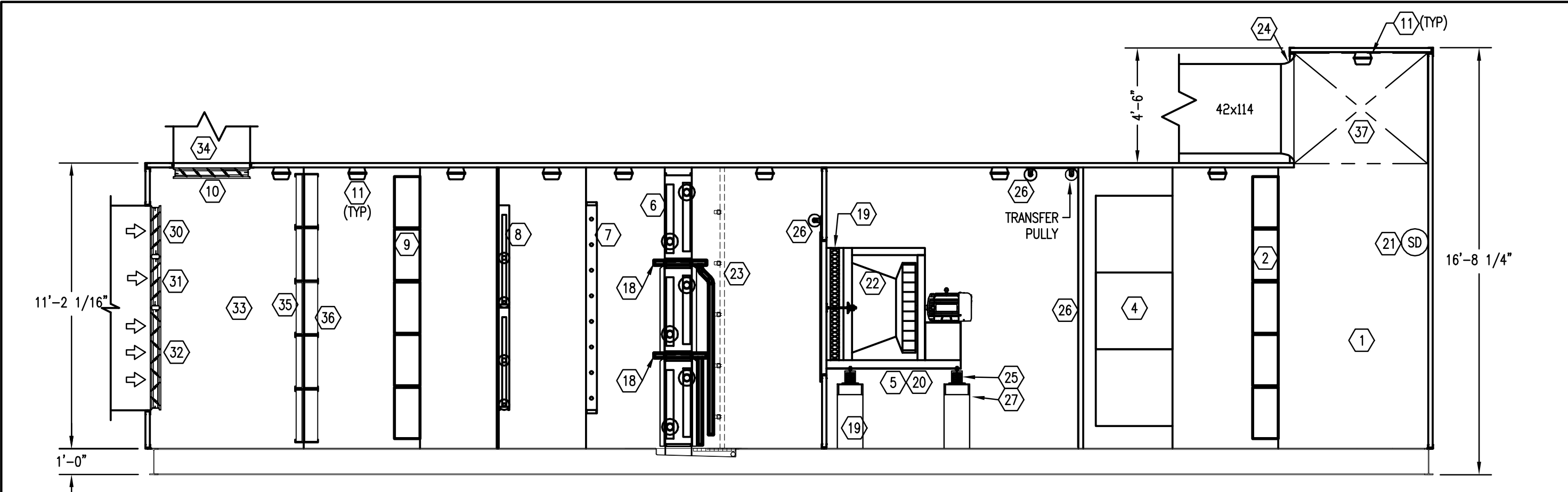


**AHU Component Legend**

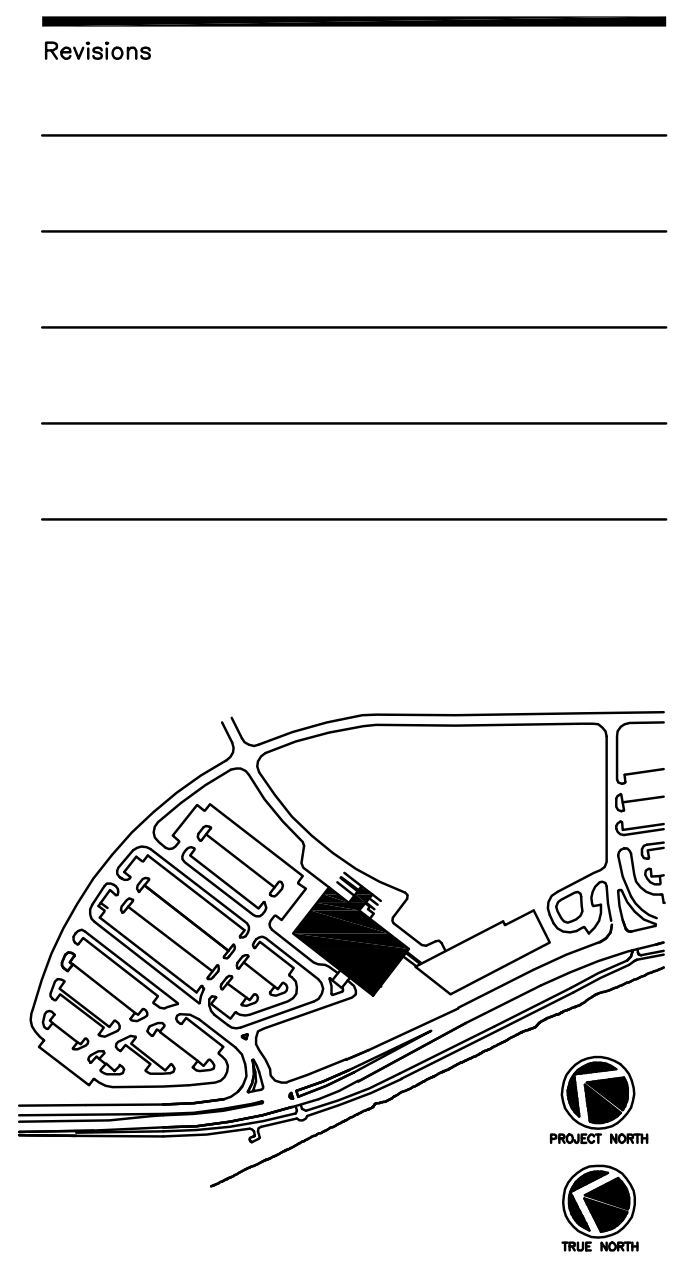
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| <p>1 SUPPLY AIR DISCHARGE PLENUM</p> <p>2 FINAL FILTERS, 24x24x12 (HEPA ABSOLUTE FILTERS 99.97% EFFICIENT) IN FRAME 20'-0"W x 10'-0"H</p> <p>3 SPACER/ACCESS SECTION</p> <p>4 SOUND ATTENUATOR (3 FEET LONG)</p> <p>5 VANE AXIAL SUPPLY FAN ON INERTIA BASE PLATFORM WITH VIBRATION MOUNTS FAN ISOLATION DAMPER AT DISCHARGE AND THRUST ARRESTORS. PROVIDE VARIABLE FREQUENCY DRIVE.</p> <p>6 COOLING COILS (BOLT ON) (6) @ 9'-4"W x 3'-4"H MINIMUM 8 ROW REMOVABLE COILS BOLTED TO STAINLESS STEEL SUPPORT FRAME. INDIVIDUAL COOLING COIL DRAIN PANS SHALL BE PROVIDED BELOW EACH COIL FOR THE FULL LENGTH OF COIL. PIPED SEPARATELY TO MAIN DRAIN LINE. FOR REMOVAL, DISCONNECT COIL PIPING, REMOVE COIL FROM FRAME, AND REMOVE COIL THROUGH COIL SECTION ACCESS DOOR.</p> <p>7 HUMIDIFIER, 2 BANKS EACH WITH 5 TUBES (REFER TO SCHEDULE FOR SIZES)</p> <p>8 STEAM PREHEAT COILS (4) @ 9'-4"W x 3'-3"H. PROVIDE BOLT-ON SUPPORT SYSTEM FOR COIL REMOVAL THROUGH ACCESS DOOR.</p> <p>9 CARBON ABSORBER FILTERS, 24"x24"x12" FILTERS IN FRAME 20'-0"W x 10'-0"H.</p> <p>10 RETURN AIR DAMPER</p> <p>11 AHU FLUORESCENT LIGHT (1'-0" x 4'-0")</p> <p>12 COMBINATION LIGHT SWITCH/DUPLX RECEPTACLE</p> | <p>13 DISCONNECT SWITCH</p> <p>14 ACCESS DOOR (24" x 6'-6"). PROVIDE SPRING CHAIN TO LIMIT DOOR SWING TO 90°. BOTTOM OF DOOR SHALL BE A MINIMUM OF 24" AFF.</p> <p>15 ACCESS DOOR (24" x 6'-6") WITH 12x12 DOUBLE GLAZED WINDOW. PROVIDE SPRING CHAIN TO LIMIT DOOR SWING TO 90°. BOTTOM OF DOOR SHALL BE A MINIMUM OF 24" AFF.</p> <p>16 ACCESS DOOR (36" x 6'-6") WITH 12x12 DOUBLE GLAZED WINDOW. PROVIDE SPRING CHAIN TO LIMIT DOOR SWING TO 90°. BOTTOM OF DOOR SHALL BE A MINIMUM OF 24" AFF.</p> <p>17 FLOOR DRAIN, DRAINS SHALL BE PIPED BY AHU MANUFACTURER TO TAILPIECE AT SIDE OF UNIT.</p> <p>18 INDIVIDUAL COOLING COIL DRAIN PAN, FOR EACH COIL PIPED TO UNIT FLOOR. (STAINLESS STEEL, WELDED)</p> <p>19 FLEXIBLE CONNECTION</p> <p>20 THRUST ARRESTOR</p> <p>21 DUCT SMOKE DETECTOR (FURNISHED &amp; WIRED TO THE FIRE ALARM SYSTEM BY ELECTRICAL SUBCONTRACTOR). INSTALLED AND WIRED TO SHUTDOWN FANS BY HVAC/ATC SUBCONTRACTORS</p> <p>22 ACOUSTIC DISCHARGE CONE, CONE INLET MATCHING FAN OUTLET. REFER TO SPEC FOR ADD ALTERNATE OF LVC EMITTERS INSTALLED DOWNSTREAM OF COOLING COILS.</p> <p>23 DISCHARGE BELLMOUTH (RECTANGULAR). BELLMOUTH OUTER RING SHALL BE FLUSH WITH INSIDE PANEL OF AHU WALL. (REFER TO PLANS FOR SIZE &amp; QUANTITY)</p> | <p>25 VIBRATION ISOLATION SPRING SUPPORT.</p> <p>26 MOTORIZED ALUMINUM ROLL UP DOOR FOR FAN CHAMBER ISOLATION. PROVIDE GUIDES FOR DOOR PER MANUFACTURERS RECOMMENDATIONS. REFER TO SPEC FOR MORE INFORMATION.</p> <p>27 BUILT UP ANGLE IRON SUPPORT BASE. HEIGHT SUCH THAT FAN DISCHARGE ALIGNS WITH UNIT CENTERLINE.</p> <p>28 6" STRUCTURAL UNIT BASE RAIL</p> <p>29 REMOVABLE PANEL FOR FAN REMOVAL.</p> <p>30 4'-2"W x 2'-0"H MINIMUM O.A. PARALLEL BLADE DAMPER SECTION (10,000 CFM) W/MULTIPLE OPERATORS.</p> <p>31 4'-2"W x 2'-0"H MID. RANGE O.A. PARALLEL BLADE DAMPER SECTION (10,000 CFM) W/MULTIPLE OPERATORS.</p> <p>32 4'-2"W x 4'-0"H MAXIMUM O.A. OPPOSED BLADE DAMPER SECTION (20,000 CFM) W/MULTIPLE OPERATORS.</p> <p>33 OUTSIDE AIR/RETURN AIR MIXING PLENUM</p> <p>34 RETURN AIR OPENING (3'-0" x 9'-6", TYPICAL FOR 2) WITH 80% FREE AREA SUBWAY GRATING, SIMILAR TO BORDEN'S METAL PRODUCTS.</p> <p>35 PREFILTERS (2" DEEP CARTRIDGE TYPE) 30% EFF., BANK SIZE = 20'-0"(W) x 10'-0"(H)</p> <p>36 AFTER FILTERS (6" DEEP CARTRIDGE TYPE) 60% EFF., BANK SIZE = 20'-0"(W) x 10'-0"(H)</p> <p>37 EXTENDED DISCHARGE PLENUM. PLENUM SIZE VARIES FOR EACH AHU. AHU-1 PLENUM DIMENSIONS = 22'-0"(W)x4'-6"(H)x6'-0"(D). AHU-2 PLENUM DIMENSIONS = 12'-10"(W)x4'-6"(H)x6'-0"(D).</p> |
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1 AHU-1 & AHU-2, 80,000 CFM AIR HANDLING UNIT PLAN VIEW - SUPPLY SECTION NTS



2 AHU-1 & AHU-2, 80,000 CFM AIR HANDLING UNIT ELEVATION VIEW - SUPPLY SECTION NTS



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It is the responsibility of the Construction Manager/General Contractor and all Sub-Contractors to verify all dimensions and accept conditions of prior work by related trades before proceeding with any work.

Date  
 11/10/06 Final-Issued for Construction  
 Drawn By  
 RWA  
 Scale  
 AS NOTED

**Francis**  
**Cauffman**  
**Foley**  
**Hoffmann**

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Project Title  
 Mercy Health Care  
 System of Maine  
 FORE RIVER SHORT  
 STAY HOSPITAL



Project Number  
 F05-4898  
 Drawing Title and Number  
 HVAC  
 AIR HANDLING UNIT  
 PART PLAN  
**H4.01**