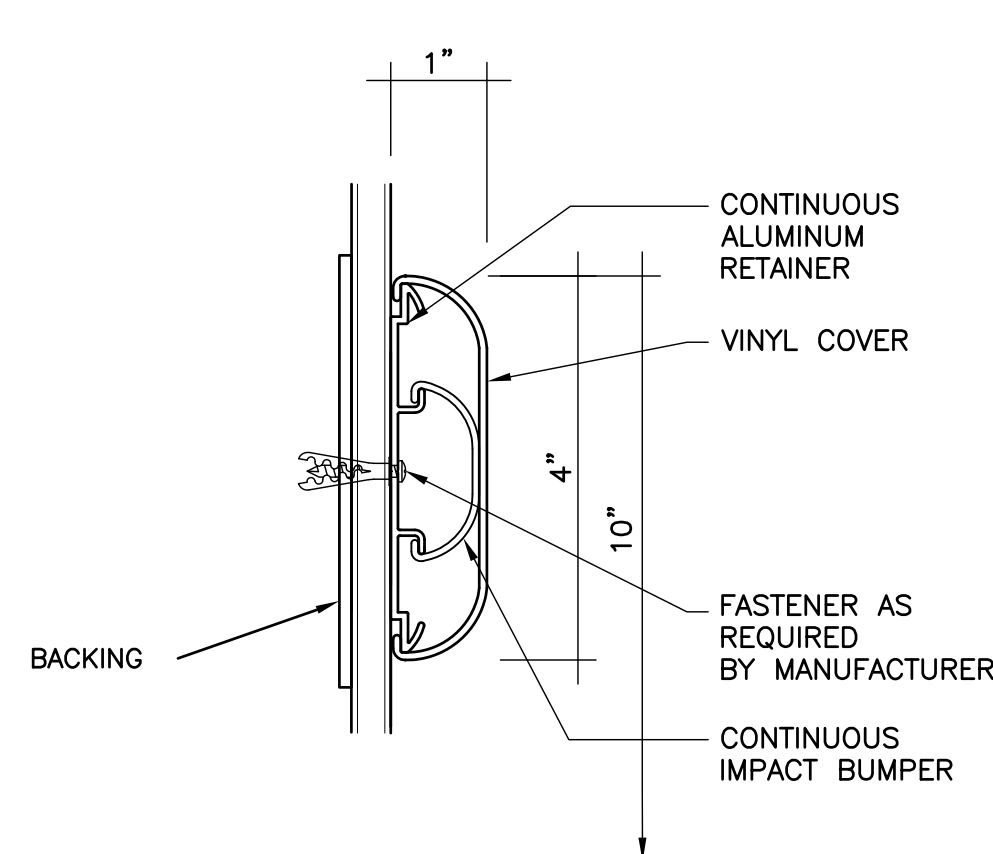
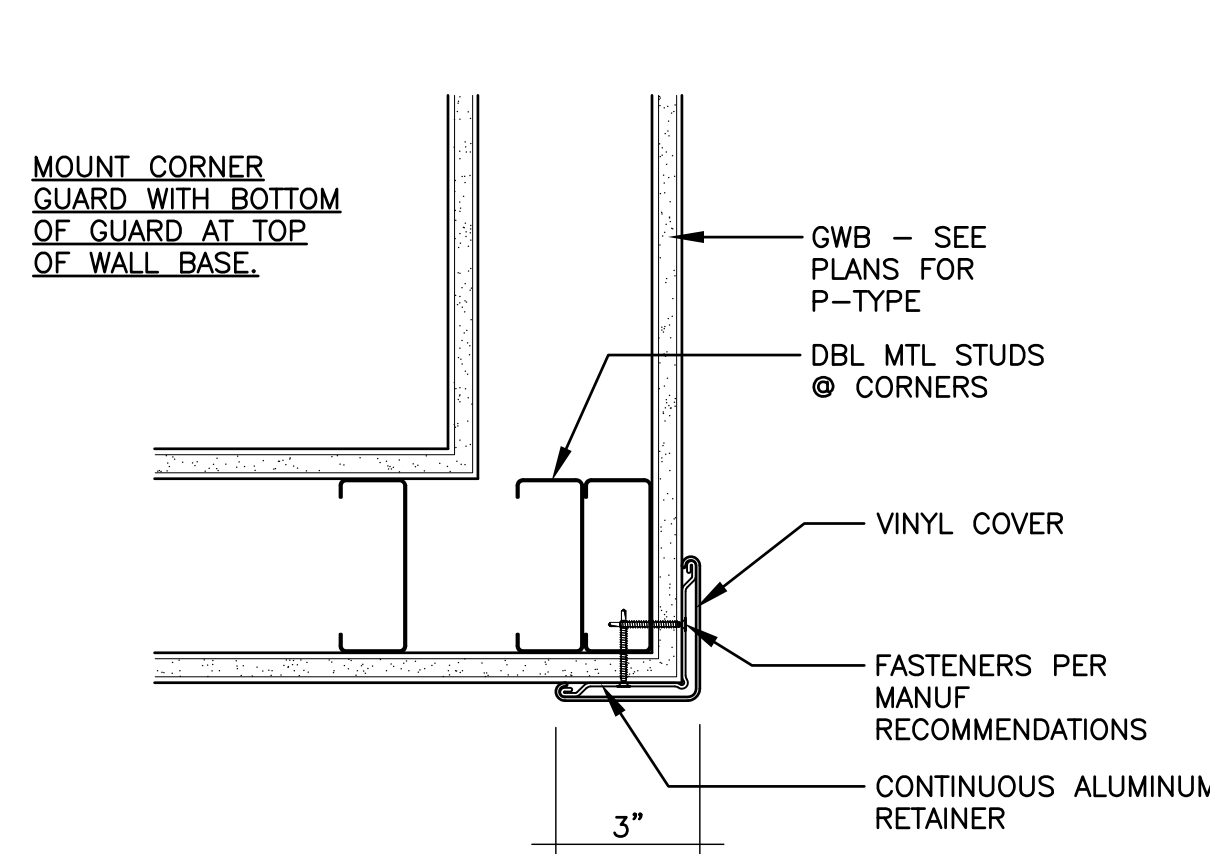


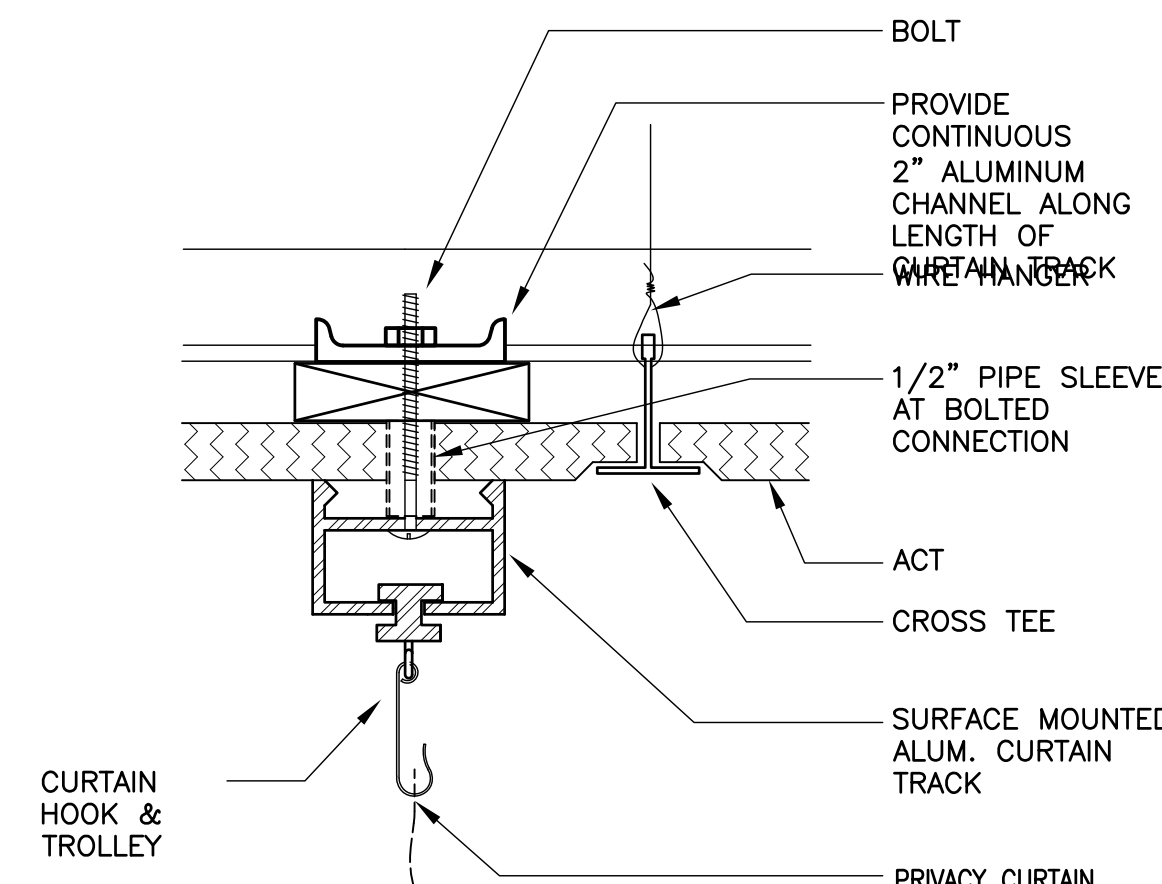
1 TYPICAL HANDRAIL DETAIL
6" = 1'-0"



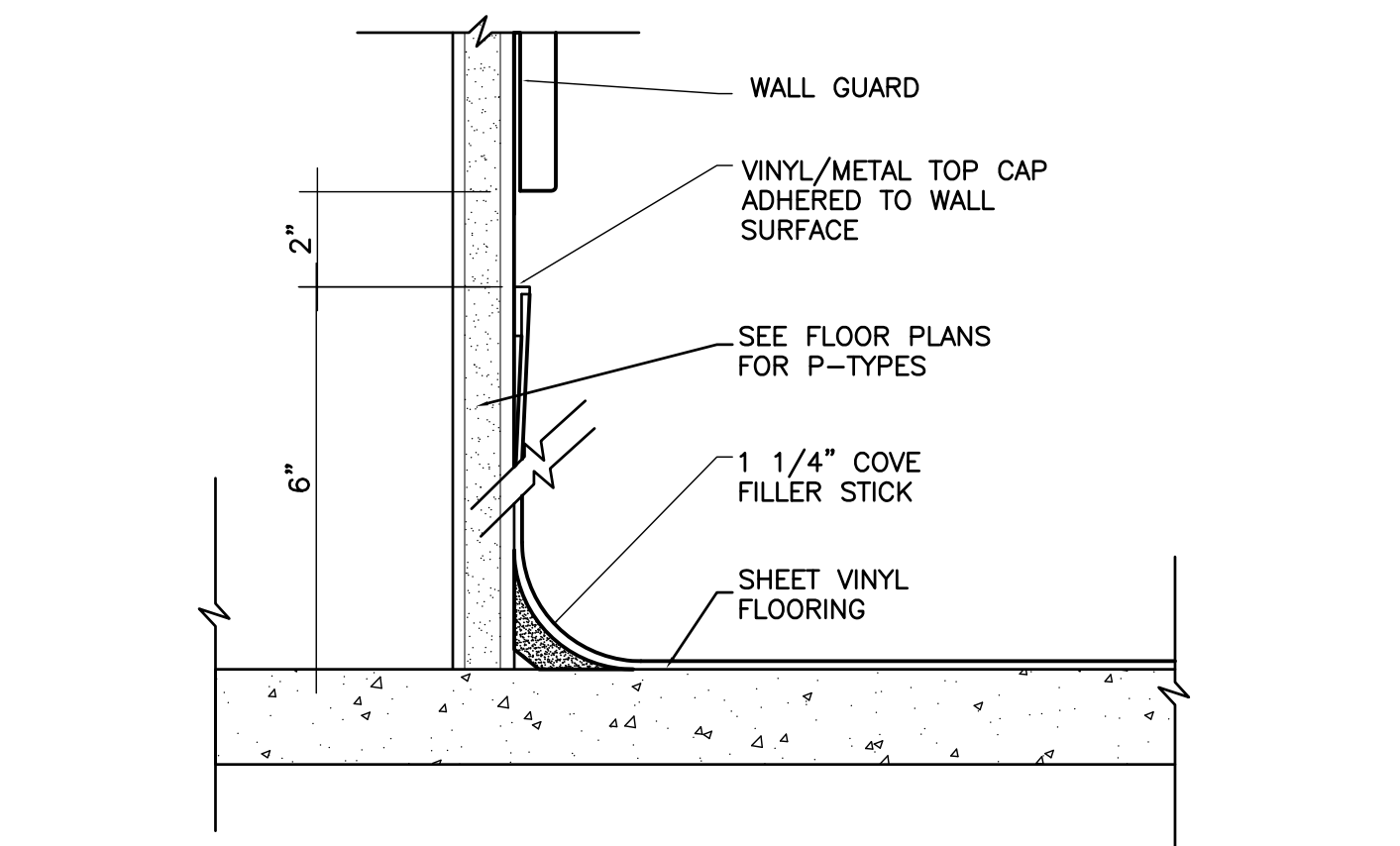
2 TYPICAL WALL GUARD DETAIL
6" = 1'-0"



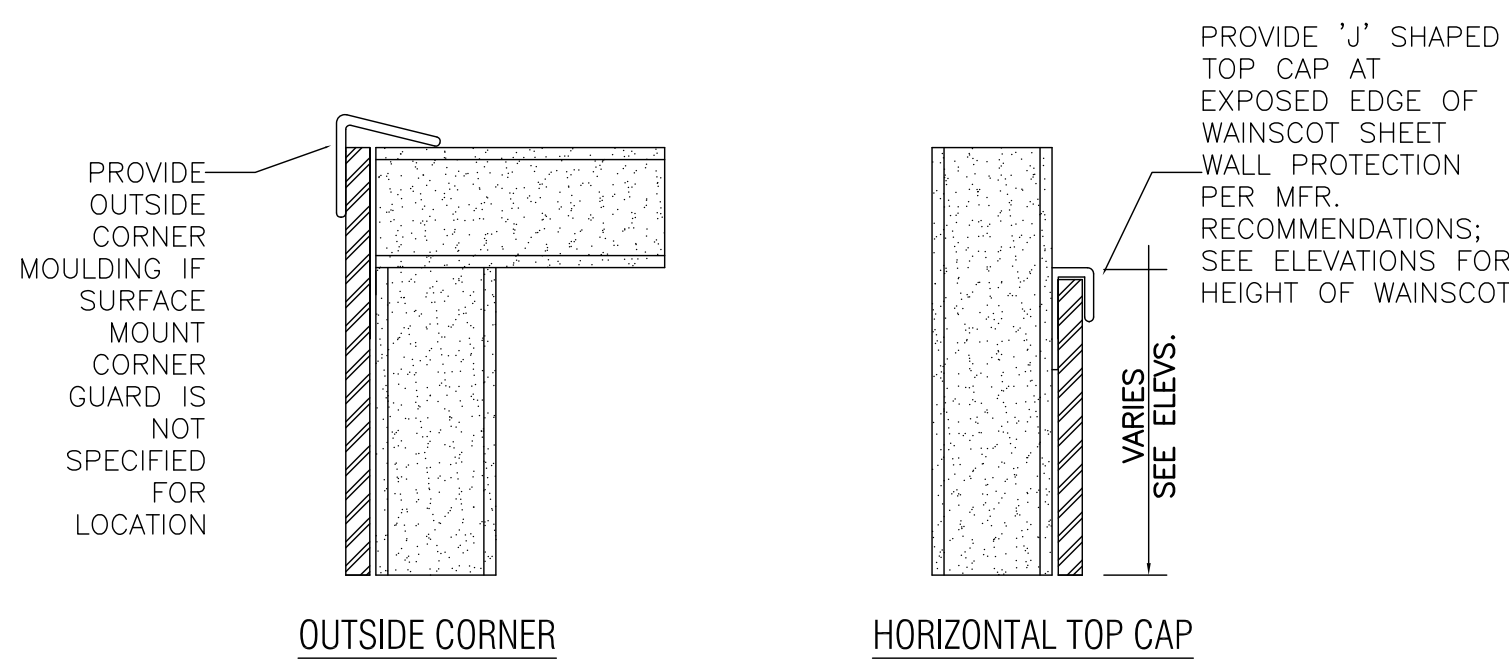
3 TYPICAL CORNER GUARD DETAIL
6" = 1'-0"



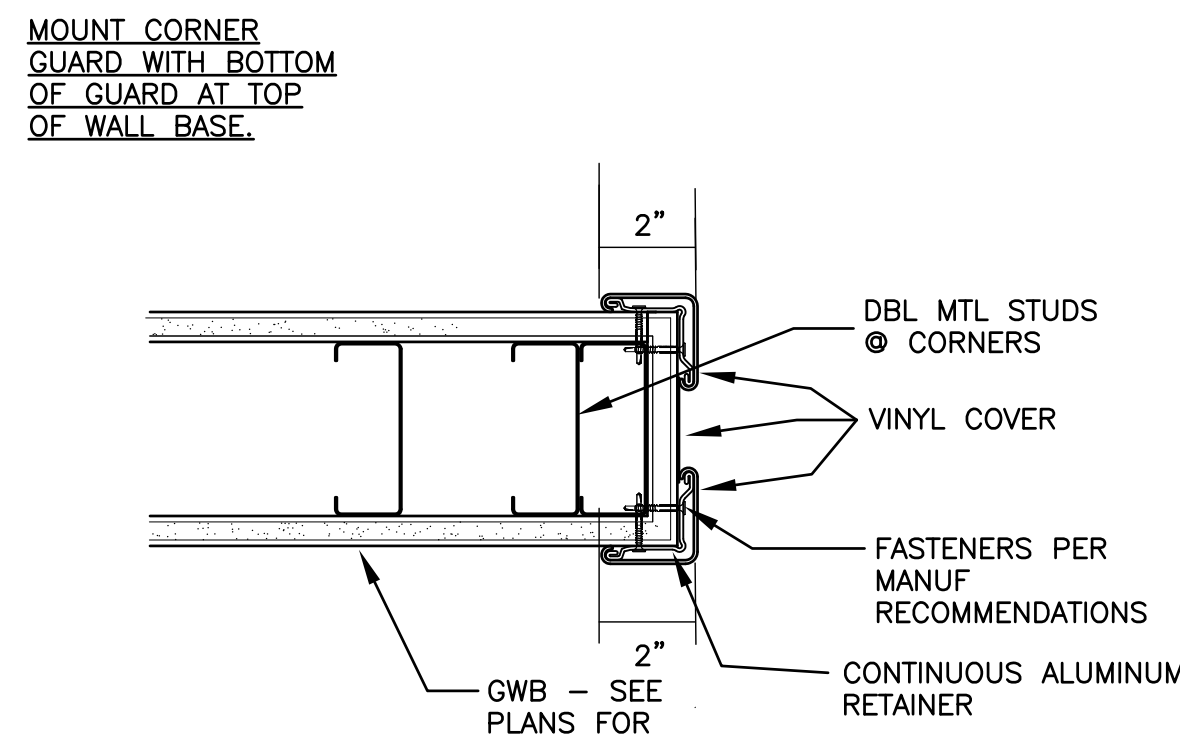
4 ACOUSTICAL CEILING CURTAIN TRACK DETAIL
6" = 1'-0"



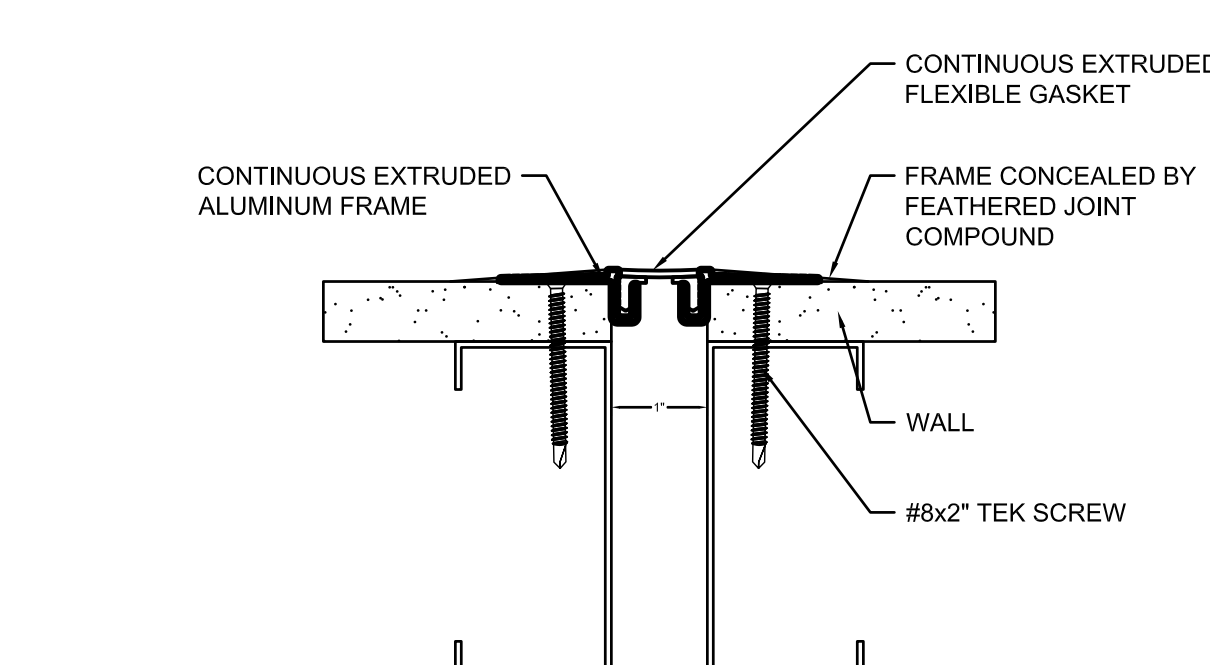
5 DETAIL @ INTEGRAL SHEET VINYL BASE
6" = 1'-0"



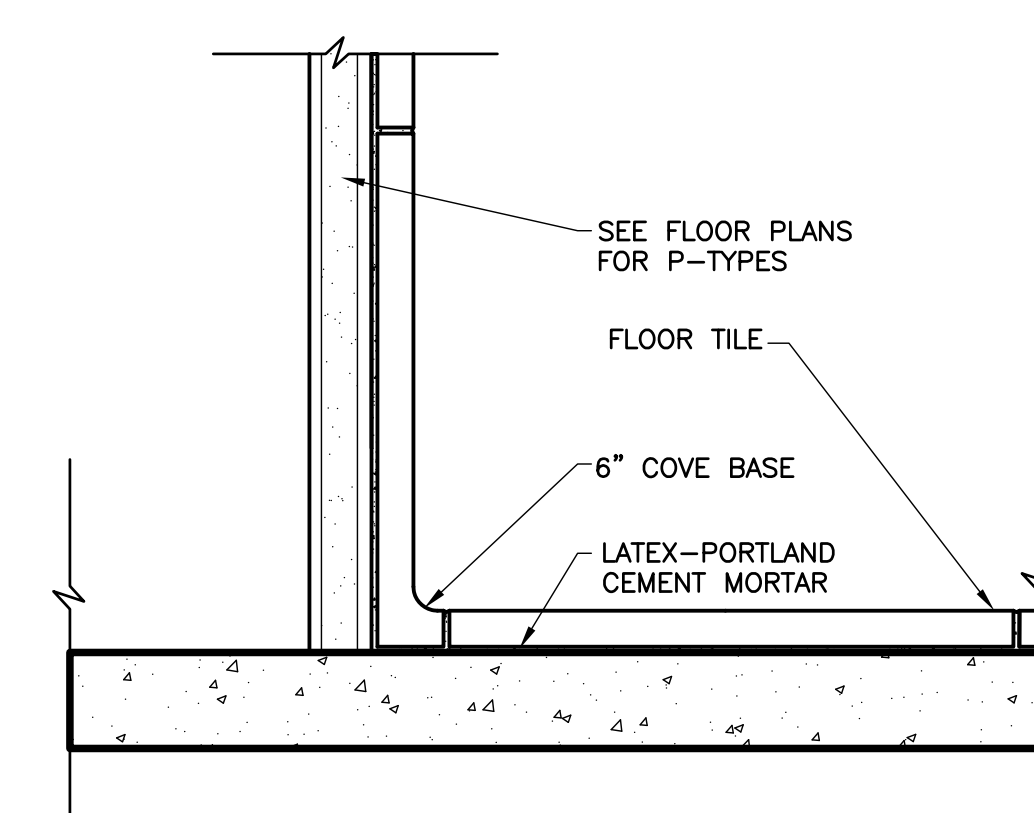
6 TYPICAL SHEET PROTECTION DETAILS
NOT TO SCALE



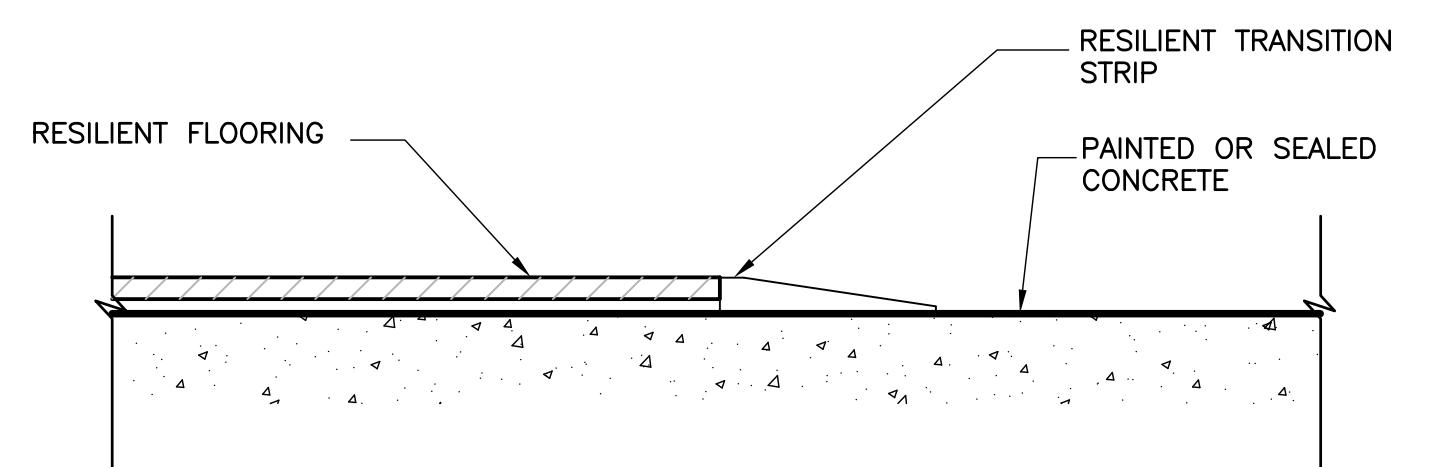
7 TYPICAL END GUARD DETAIL
6" = 1'-0"



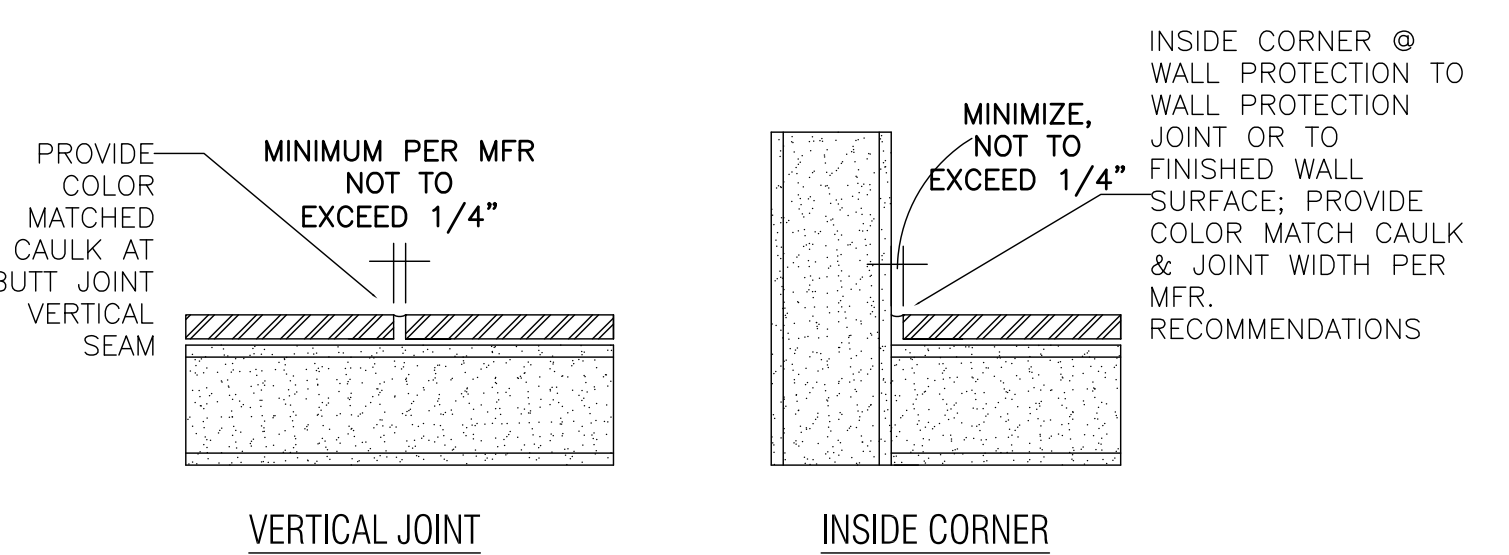
8 GWB EXPANSION JOINT COVER
6" = 1'-0"



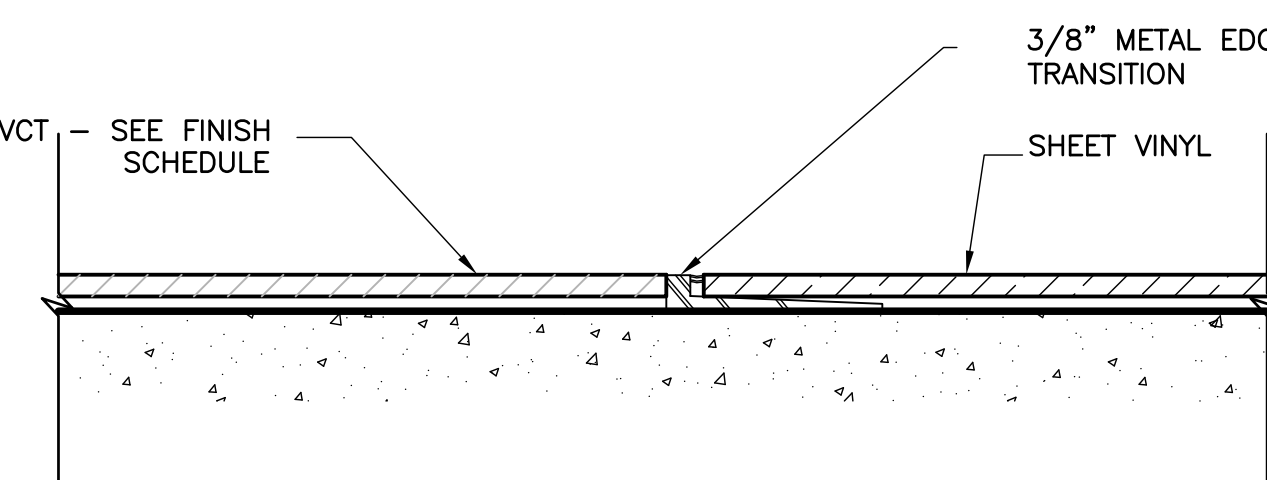
9 CERAMIC TILE BASE
6" = 1'-0"



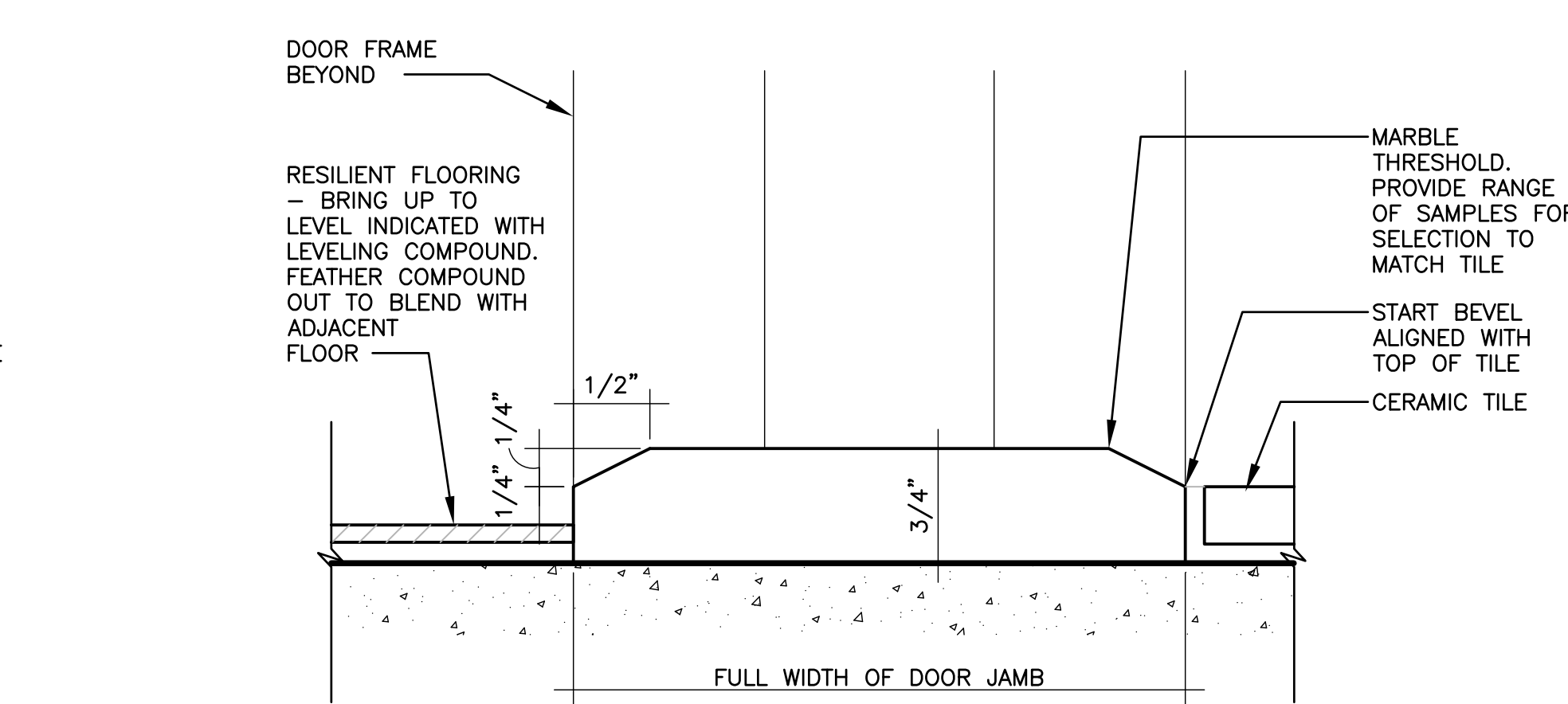
10 TRANSITION - RESILIENT TO CONCRETE
6" = 1'-0"



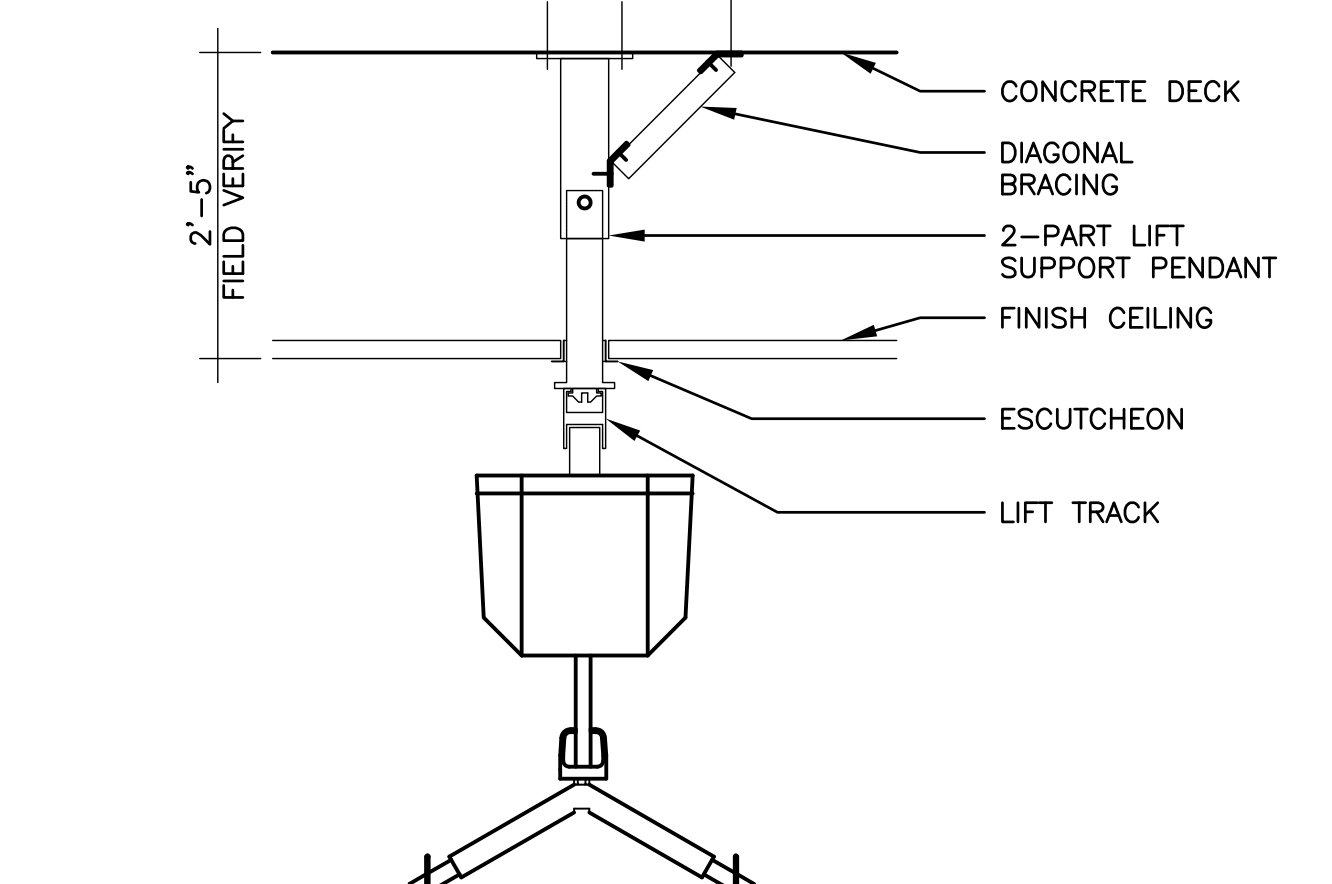
11 TYPICAL FLOOR EXPANSION JOINT COVER
6" = 1'-0"



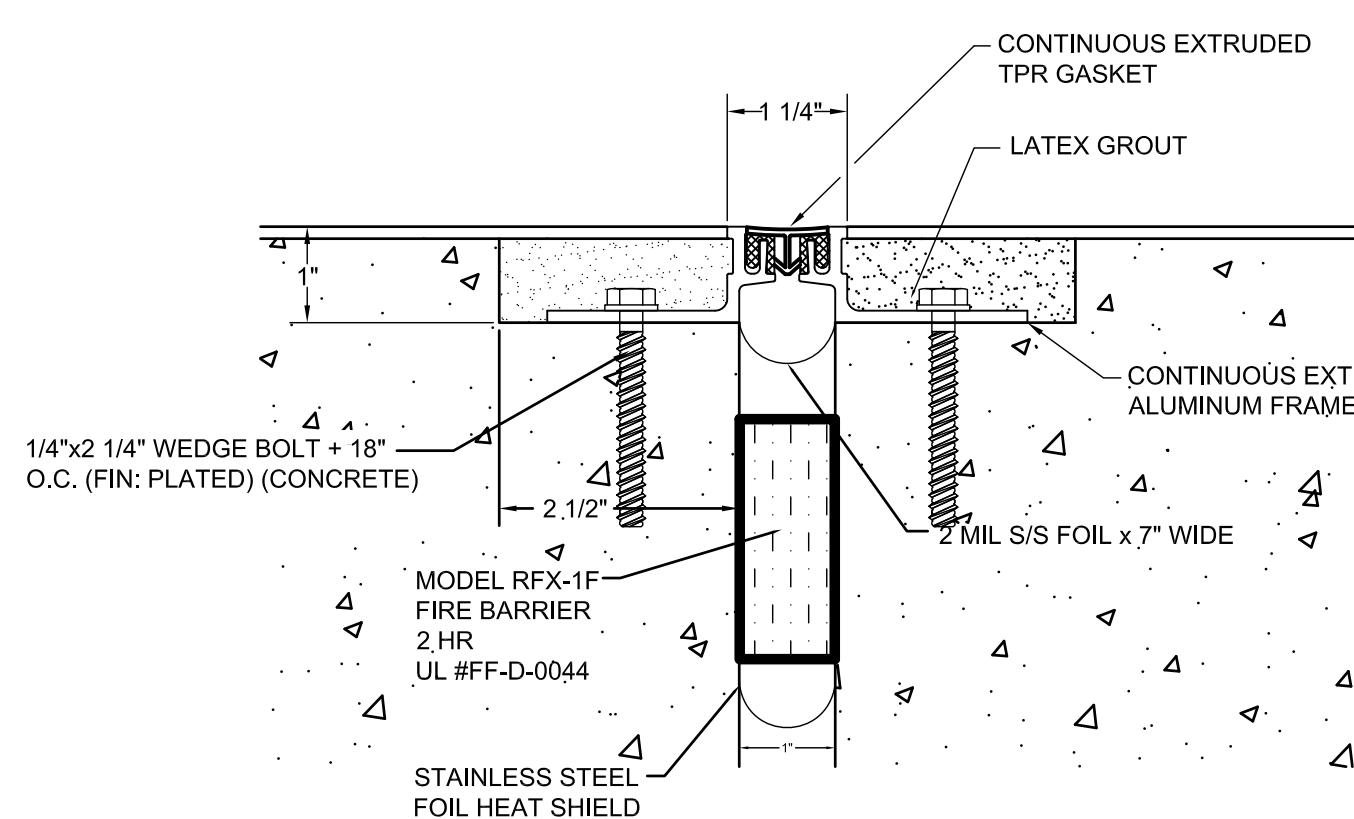
12 TRANSITION - SHEET VINYL TO VCT
6" = 1'-0"



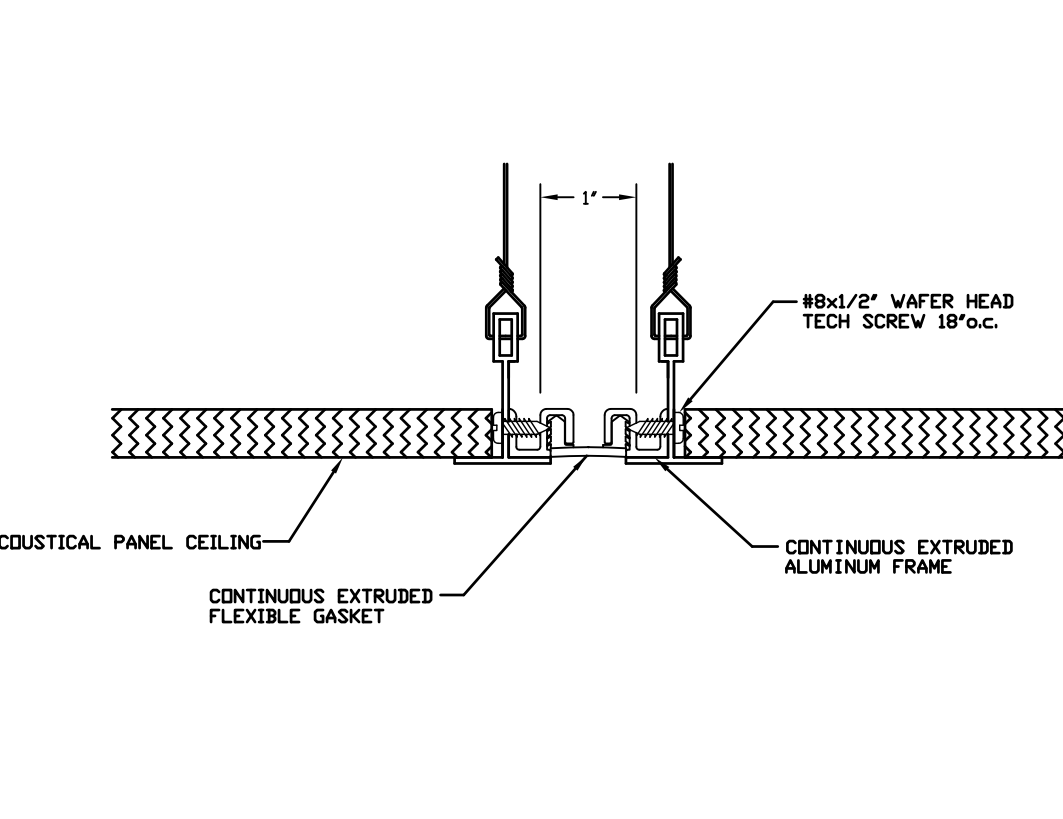
13 TRANSITION - CERAMIC TILE TO RESILIENT
NOT TO SCALE



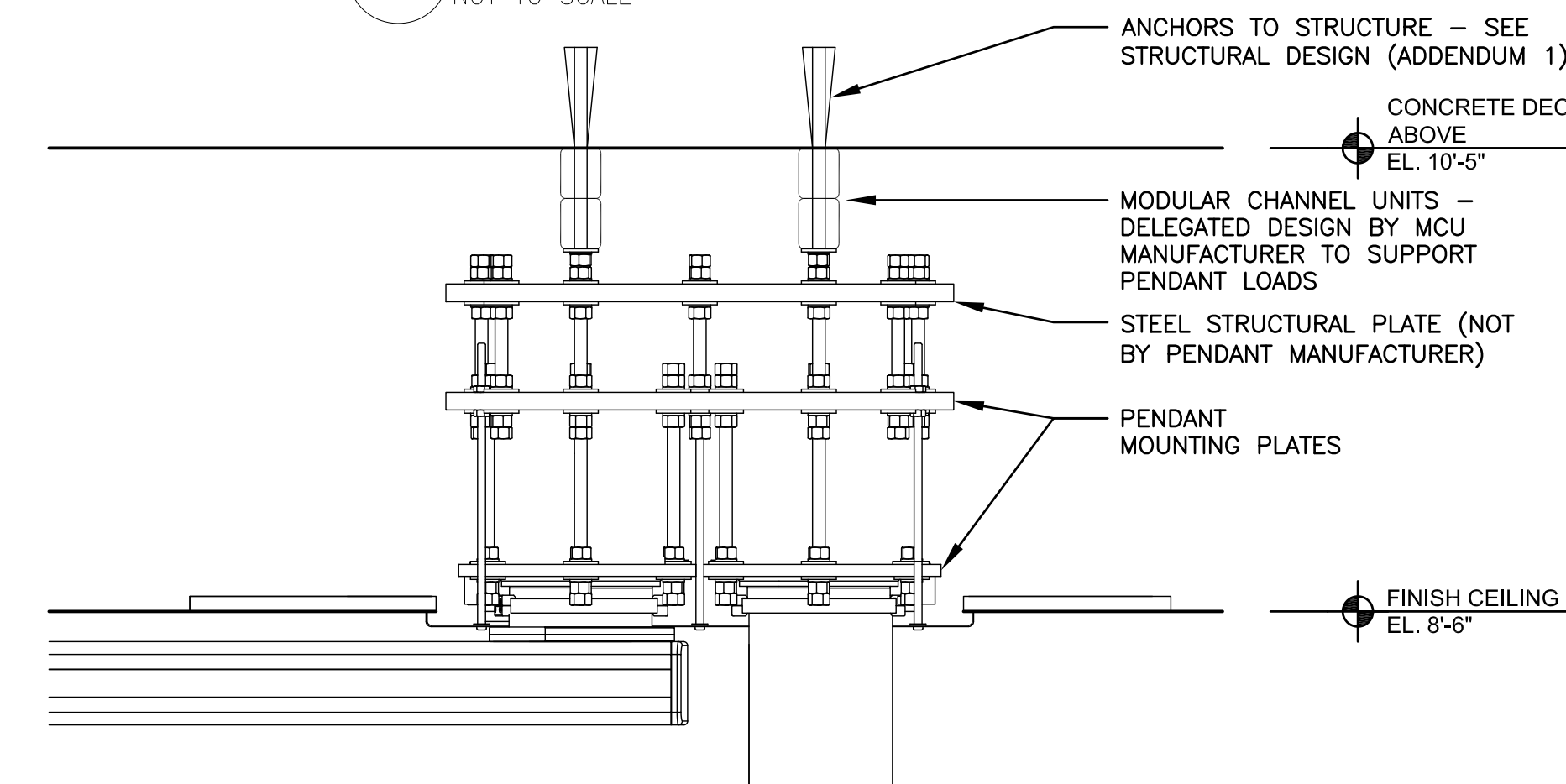
14 PATIENT LIFT DETAIL
1-1/2" = 1'-0"



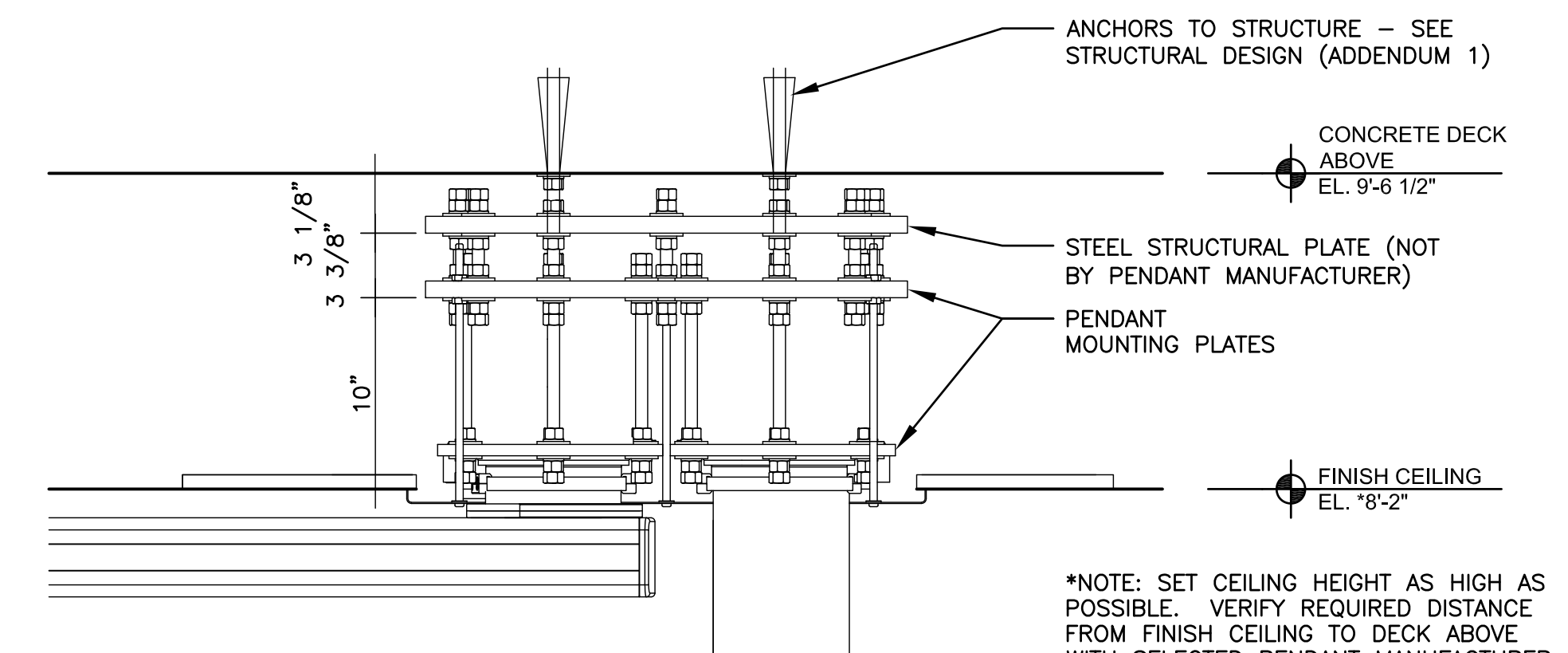
15 TYPICAL CEILING EXP JOINT COVER
6" = 1'-0"



16 TYPICAL OVERHEAD PENDANT MOUNTING
6" = 1'-0"



17 OVERHEAD PENDANT MOUNTING (ROOMS A312-1 AND A313-1)
1-1/2" = 1'-0"

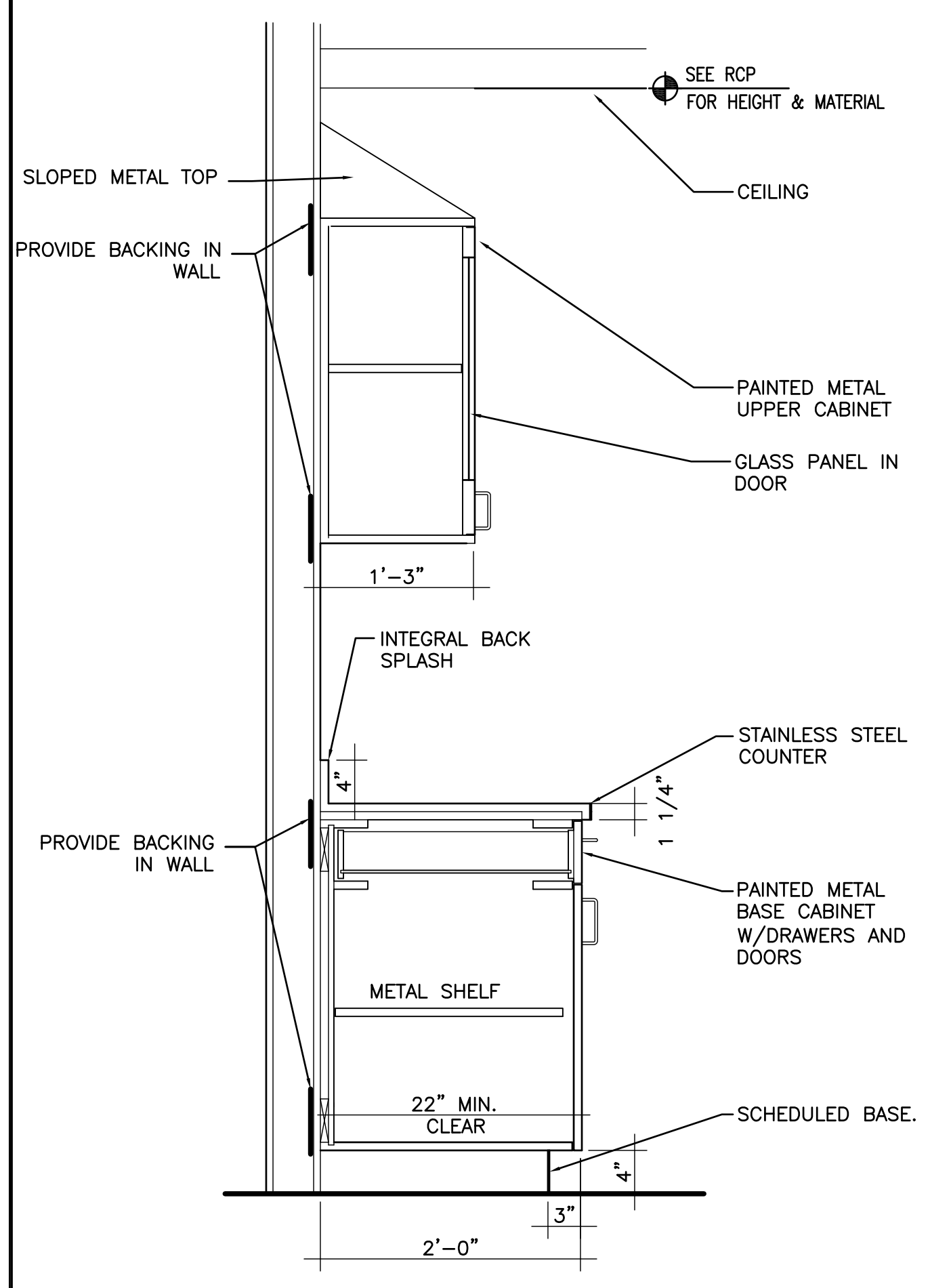


18 OVERHEAD PENDANT MOUNTING (ROOMS A312-1 AND A313-1)
1-1/2" = 1'-0"

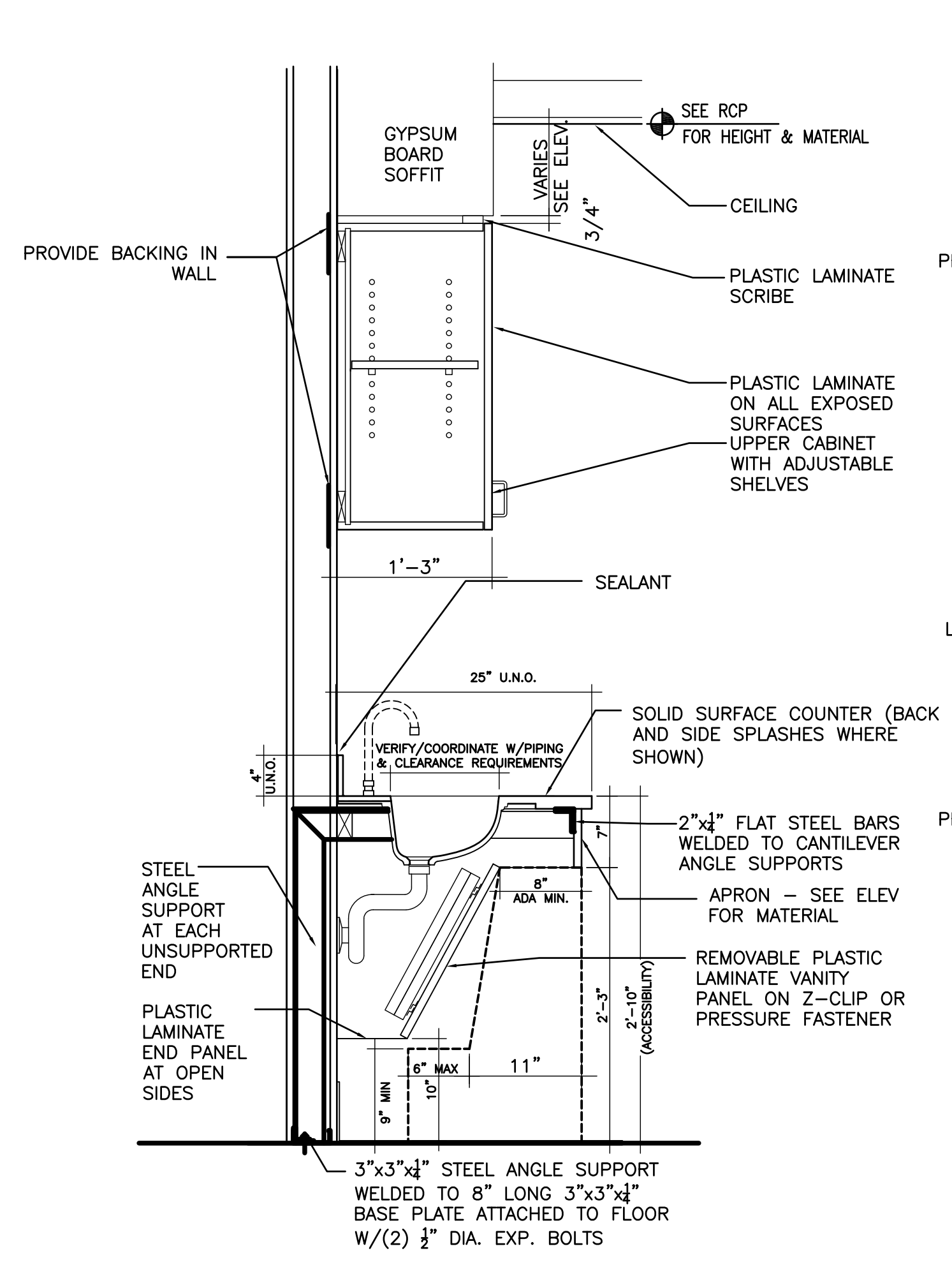
FINAL DESIGN
APPROVED FOR CONSTRUCTION

| | | | | | | | |
|--------------|--|---|--|----------------------------|--|------------------------------|---|
| CONSULTANTS: | | ARCHITECT-OF-RECORD THOMAS H. GYLLSTROM FL REG. NO. A00009098 | ARCHITECT/ENGINEERS: AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15 | Drawing Title DETAILS | Project Title RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | Project Number 573-15-102 | Office of Construction and Facilities Management |
| Revisions: | | Date | | Approved: Project Director | Location GAINESVILLE, FLORIDA | Drawing Number A605 | Department of Veterans Affairs |
| | | | | | Date JULY 15, 2016 | Checked THG | |
| | | | | | Drawn YMH | 16 OF 72 | |

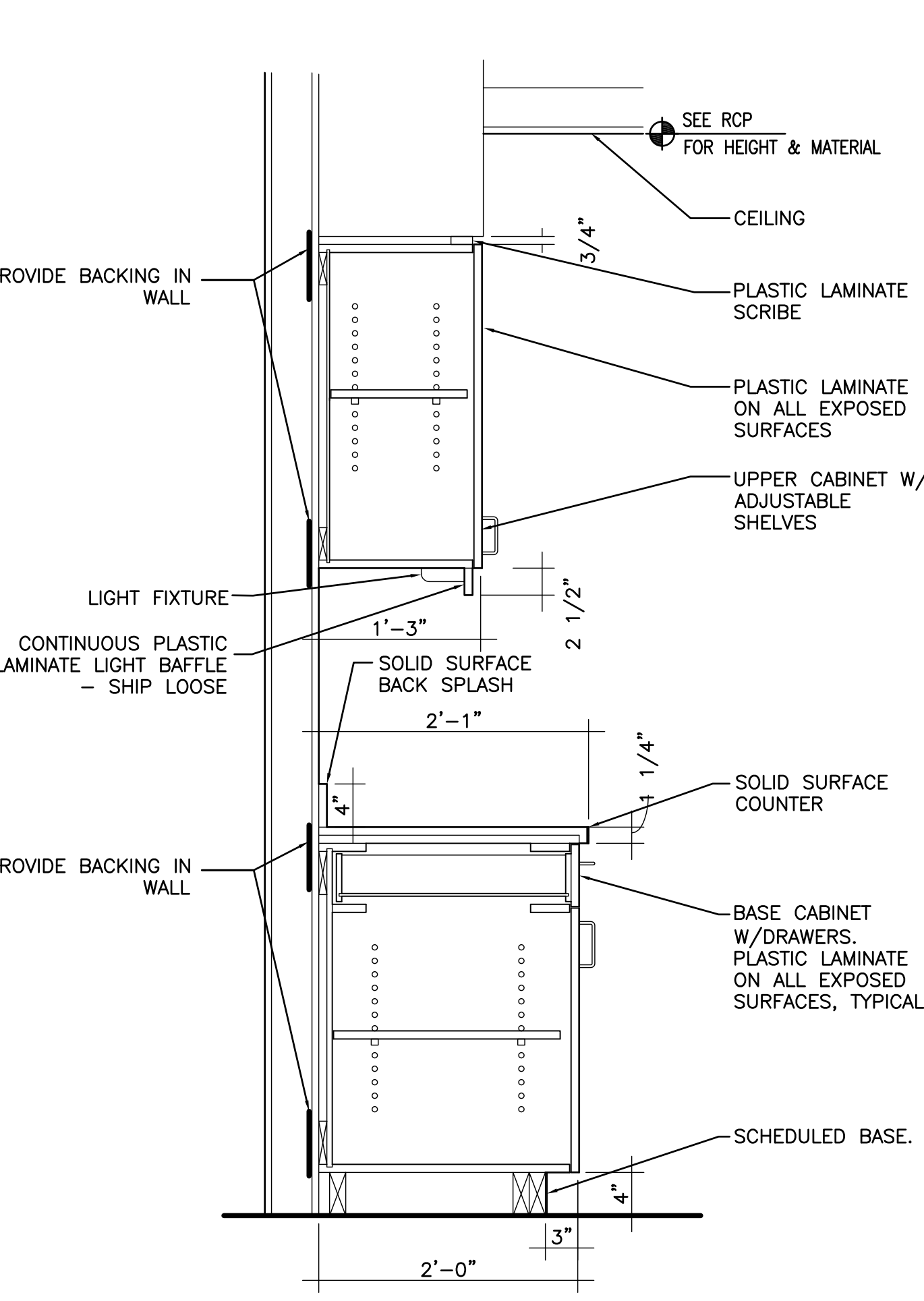
three inches = one foot
one and one half inches = one foot
one inch = one foot
one quarter inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one eighth inch = one foot
one eighth inch = one foot



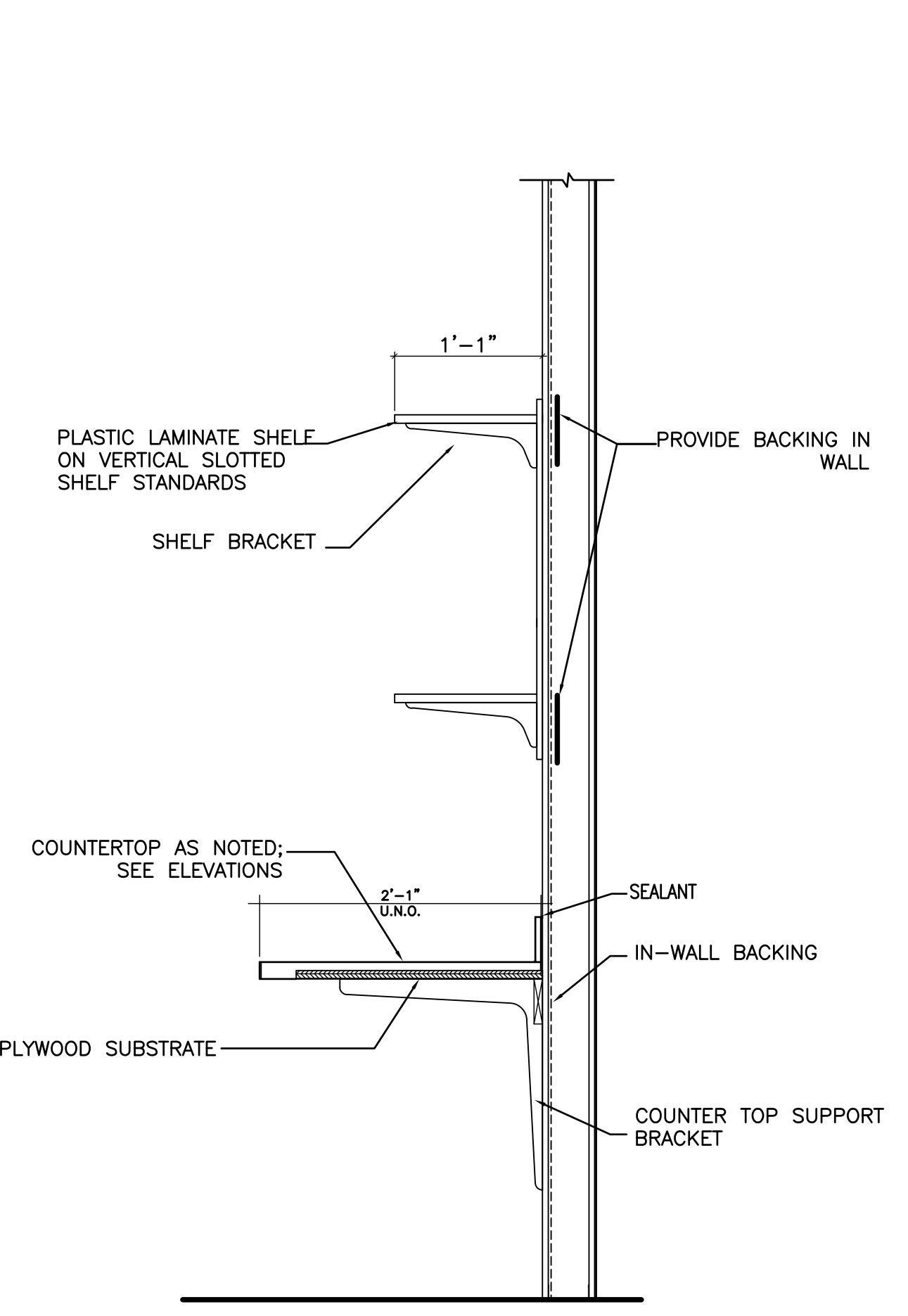
1 PROCEDURE ROOM CASEWORK
1" = 1'-0"



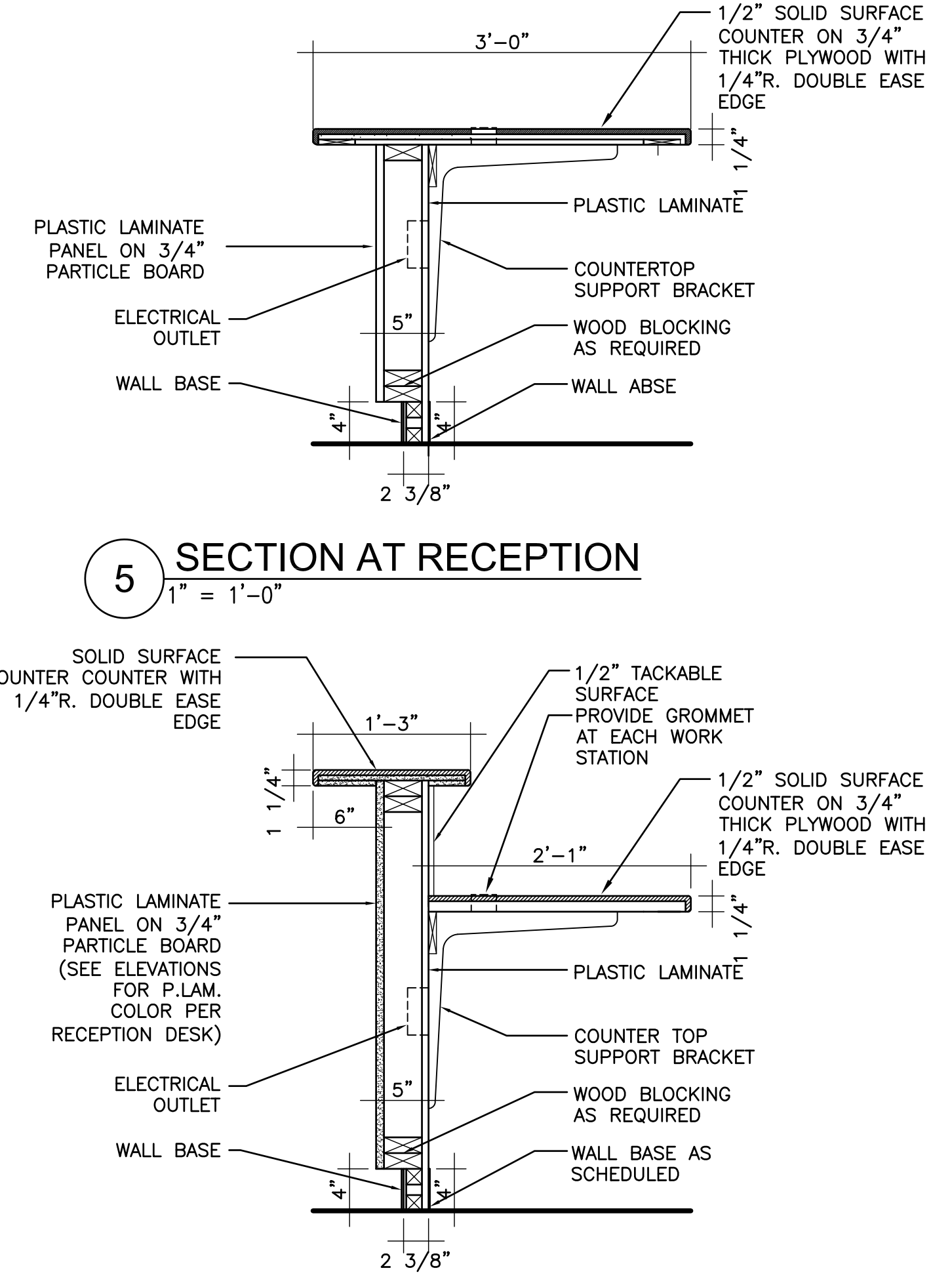
2 BASE SECTION W/ SINK & UPPER CABINET
1" = 1'-0"



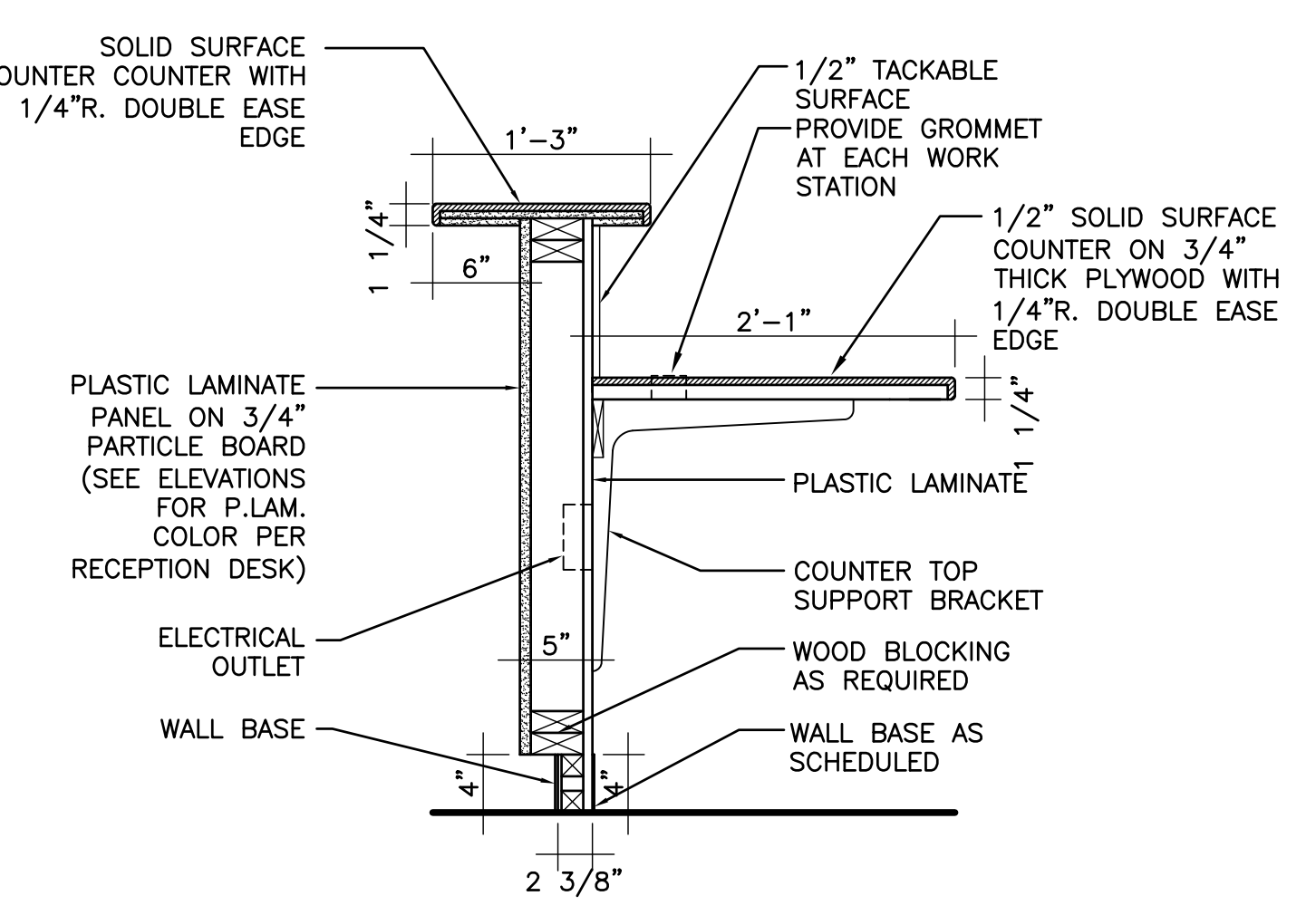
3 BASE SECTION W/ UPPER CABINET
1" = 1'-0"



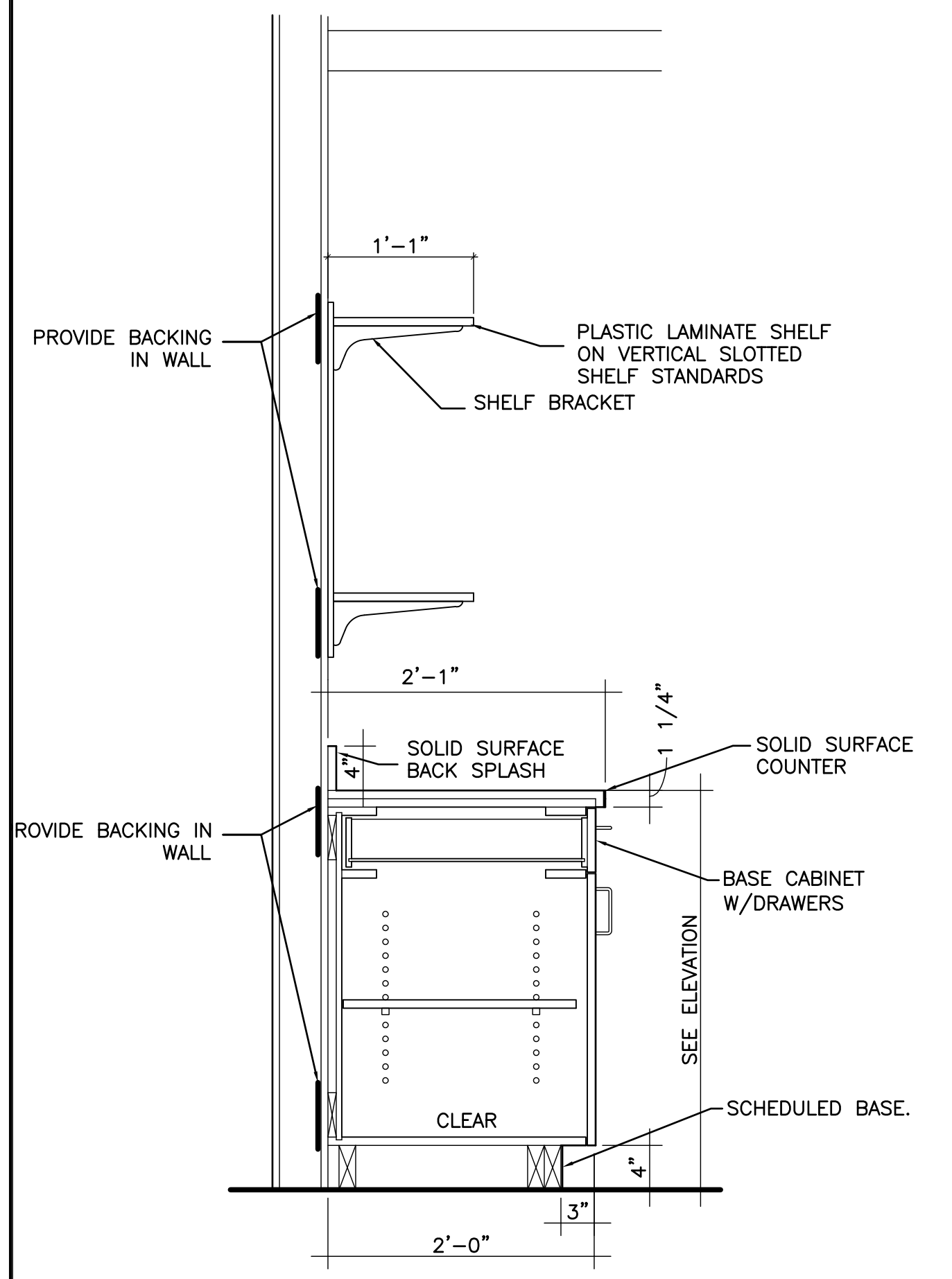
4 COUNTERTOP SECTION
1" = 1'-0"



5 SECTION AT RECEPTION
1" = 1'-0"




6 SECTION AT RECEPTION
1" = 1'-0"



7 CASEWORK SECTION
1" = 1'-0"

FINAL DESIGN
APPROVED FOR CONSTRUCTION

| | | | | | | | | | | | | | |
|------------|------|---------------|--|---|--|----------------------------|--|---|--|-----------------|--|---|---|
| | | CONSULTANTS: | | ARCHITECT-OF-RECORD THOMAS H. GYLLSTROM FL REG. NO. ARO009098 | ARCHITECT/ENGINEERS: <div>AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15</div> | Drawing Title | | Project Title | | Project Number | | Office of Construction and Facilities Management | |
| | | | | | | CASEWORK DETAILS | | RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | | 573-15-102 | | | |
| | | | | | | Approved: Project Director | | Location | | Building Number | | | |
| | | | | | | | | GAINESVILLE, FLORIDA | | 1 | | | |
| | | | | | | | | Drawing Number | | | | | |
| | | | | | | Date | | Checked | | Drawn | | | A801 |
| Revisions: | Date | JULY 15, 2016 | | THG | | YMH | | 17 OF 72 | | | | | |
| | | | | | | | | | | | | |  Department of Veterans Affairs |
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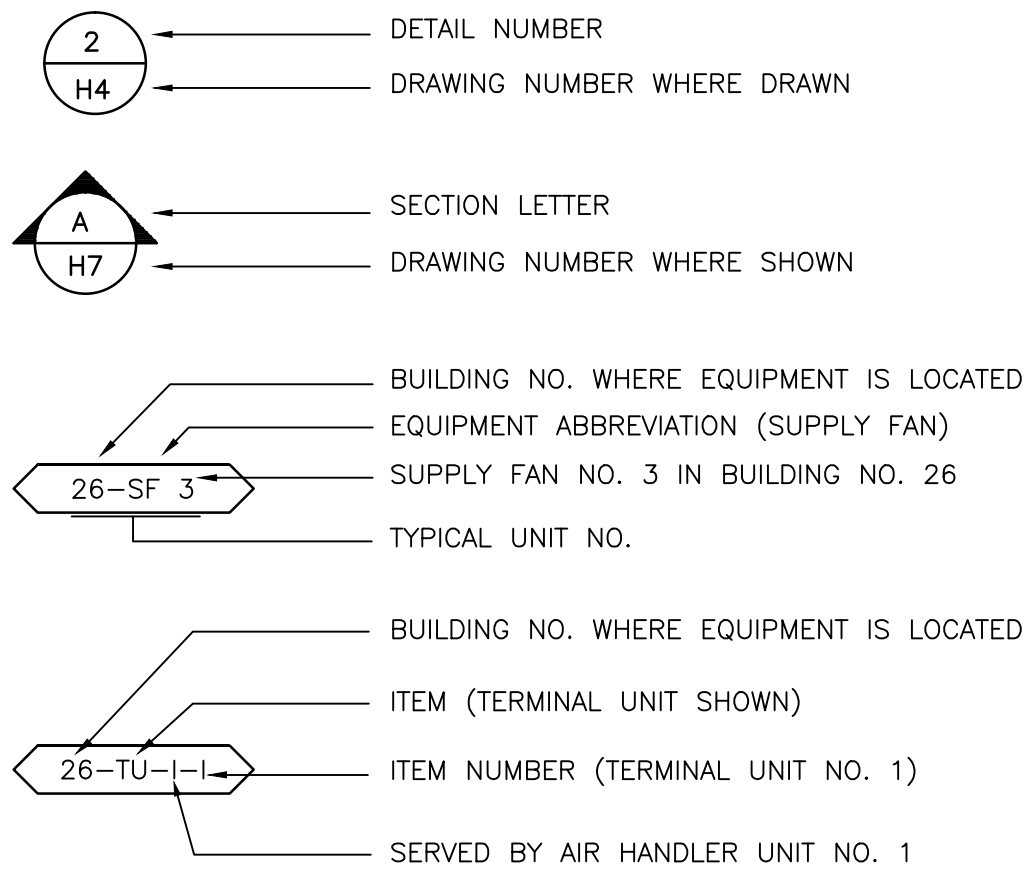
ABBREVIATIONS (NOT ALL APPLY)

| |
|---|
| A/E ARCHITECT / ENGINEER AAHX AIR TO AIR HEAT EXCHANGER AB AIR BLENDER AAV AUTOMATIC AIR VENT ACC AIR COOLED CONDENSER ACCH AIR COOLED CHILLER ACCU AIR-COOLED CONDENSING UNIT ACU AIR CONDITIONING UNIT ACD AUTOMATIC CONTROL ACD-TP DAMPER,MODULATING AUTOMATIC CONTROL DAMPER,TWO POSITION AD ACCESS DOOR AF AFTER FILTER AFV AIR FLOW CONTROL VALVE AFF ABOVE FINISHED FLOOR AFWD AIR FLOW MEASURING DEVICE AFW AIR FLOW WHEEL (FAN) AHU AIR-HANDLING UNIT AMP AMPERE AP ACCESS PANEL APD AIR PRESSURE DROP ARI AIR CONDITIONING AND REFRIGERATION INSTITUTE AS AIR SEPARATOR ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS AW AIR WASHER AXF AXIAL FLOW B BOILER BD BUTTERFLY DAMPER BDD BACKDRAFT DAMPER BDR BASE BOARD RADIATOR BFP BACKFLOW PREVENTER BFT BOILER PLANT FIRE TUBE BG BOTTOM GRILLE BHP BRAKE HORSEPOWER BHW HOT WATER HEATING BOILER BHX BOILER BLOWDOWN HEAT EXCHANGER BIW BACKWARD INCLINED WHEEL (FAN) BMT BONE MARROW TRANSPLANT BR BOTTOM REGISTER BSO BIOLOGICAL SAFETY CABINETS BT BLOWOFF TANK BTC BLOWOFF TANK CONTROL VALVE BTU BRITISH THERMAL UNIT BTUH BRITISH THERMAL UNIT PER HOUR BWT BOILER PLANT WATER TUBE C CENTIGRADE (CELCIUS) CC COOLING COIL CCD COOLING COIL CONDENSATE DRAIN CD CEILING DIFFUSER CD-1 CONSTRUCTION DOCUMENTS (SUBMISSION1) CD-2 CONSTRUCTION DOCUMENTS (SUBMISSION2) CENT CENTRIFICAL CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CFT CUBIC FEET CFP CHEMICAL FEED PUMP CG CEILING GRILLE CH CHILLER CHP CHILLED WATER PUMP CHW CHILLED WATER CHR CHILLED WATER RETURN CHS CHILLED WATER SUPPLY CI CAST IRON CO CARBON MONOXIDE CM CUBIC METER CM/S CUBIC METER PER SECOND CO CLEAN OUT CO2 CARBON DIOXIDE COMP COMPRESSOR UNIT COP COEFFICIENT OF PERFORMANCE CP CONDENSATE PUMP CR CEILING REGISTER CS CONDENSATE STORAGE TANK CSG CLEAN STEAM GENERATOR CT COOLING TOWER CU CONDENSING UNIT CUH CABINET UNIT HEATER CV CONSTANT VOLUME CW COLD WATER (POTABLE) CWC CHILLED WATER COOLING COIL CWP CONDENSER WATER PUMP CWR CONDENSER WATER RETURN (TO COOLING TOWER) CWS CONDENSER WATER SUPPLY (FROM COOLING TOWER) D DAMPER — AUTOMATIC D-1 OUTDOOR AIR DAMPER D-2 RETURN AIR DAMPER D-3 RELIEF AIR DAMPER DB DECIBELS DB DRY-BULB TEMPERATURE DD-1 DESIGN DEVELOPMENT (SUBMISSION1) DD-2 DESIGN DEVELOPMENT (SUBMISSION2) DDC DIRECT DIGITAL CONTROLS DEG DEGREE DF DIFFUSER DIA DIAMETER DIW DEIONIZED WATER DP DEW POINT TEMPERATURE DPA DIFFUSER PLATE DPA DIFFERENTIAL PRESSURE ASSEMBLY DPS DIFFERENTIAL PRESSURE SENSOR DY DIRECT EXPANSION DXCC DIRECT EXPANSION COOLING COIL EA EXHAUST AIR EAT ENTERING AIR TEMPERATURE EC EVAPORATIVE COOLER ECC ENGINEERING CONTROL CENTER ECU EVAPORATIVE CONDENSER UNIT EDH ELECTRIC DUCT HEATER EER ENERGY EFFICIENCY RATIO EF EXHAUST FAN EG EXHAUST GRILLE EGS EMERGENCY GAS SHUTOFF EGT ENTERING GLYCOL TEMP. EH EXHAUST HOOD EJ EXPANSION JOINT EMD END OF MAIN DRIP (STEAM) ENT ENTERING ER EXHAUST REGISTER ERC ELECTRIC REHEAT COIL ERP ELECTRIC RADIANT PANEL ESP EXTERNAL STATIC PRESSURE ET EXPANSION TANK ETO ETHYLENE OXIDE EUC ELECTRIC UNIT HEATER EWH EVAPORATIVE WATER COOLER EWT ENTERING WATER TEMPERATURE EX EXISTING F FAHRENHEIT F&T FLOAT AND THERMOSTATIC F/SDPR COMBINATION FIRE SMOKE DAMPER FA FREE AREA FC FLEXIBLE CONNECTION FCU FAN COIL UNIT (4 PIPE) FCUC FAN COIL UNIT COOLING ONLY FCUH FAN COIL UNIT HEATING ONLY FD FORWARD CURVED WHEEL (FAN) FD FLOOR DRAIN FD FIRE DAMPER FF FINAL FILTER FHX FLUE GAS/FEEDWATER HEAT EXCHANGER FM FLOW METER FOP FUEL OIL PUMP FOT FUEL OIL TANK FOHX FUEL OIL HEAT EXCHANGER FPM FEET PER MINUTE FPS FEET PER SECOND FPTU FAN POWERED TERMINAL UNIT FR FLOOR REGISTER FRP FIBER REINFORCED POLYESTER FS FLOW SWITCH FSTAT FREEZESTAT FT FEET FT-LB FOOT-POUND FTR FIN TUBE RADIATION FV FACE VELOCITY GA GAUGE GAL GALLONS GH GRAVITY HOOD GPD GALLONS PER DAY GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GPR GAS PRESSURE REGULATOR GS GALVANIZED STEEL H HUMIDIFIER H&CW HOT & COLD WATER HAC HOUSEKEEPING AID CLOSET HB HOSE BIBB HC HEATING COIL HD HEAD HD HOOD HOA HAND/OFF/AUTOMATIC HP HEAT PUMP HP HORSEPOWER HPDT HIGH PRESSURE DRIP TRAP HPR HIGH PRESSURE RETURN (STEAM CONDENSATE) HPS HIGH PRESSURE SUPPLY (STEAM) HRC HEAT RECOVERY COIL HRD HEAT RECOVERY DEVICE HRP HYDRONIC RADIANT (CEILING) PANEL HRW HEAT RECOVERY WHEEL HSTAT HUMIDISTAT HTM HUMIDIFIER TERMINAL HUM HUMIDIFIER UNIT MOUNTED HVU HEATING AND VENTILATING UNIT HW HOT WATER HWC HOT WATER COIL HWHC HOT WATER HEATING COIL HTP HEATING HOT WATER PUMP HTR HEATING HOT WATER RETURN HTS HEATING HOT WATER SUPPLY HWUH HOT WATER UNIT HEATER HWD HOISTWAY VENT DAMPER HV HEAT EXCHANGER HZ HERTZ I/O INPUT/OUTPUT IAQ INDOOR AIR QUALITY IBT INVERTED BUCKET TRAP ICF IN-LINE CENTRIFUGAL FAN ICU INTENSIVE CARE UNIT ID INSIDE DIAMETER IFB INTEGRAL FACE AND BYPASS IN INCHES IN HG INCHES OF MERCURY IN WC INCH WATER COLUMN IN WG INCH WATER GAUGE IN-LB INCH-POUND IPLV INTEGRATED PART LOAD VALUE IRH INTRARED HEATER IS INSECT SCREEN IU INDUCTION UNIT IV INLET VANES J INTENTIONALLY LEFT BLANK K KILOGRAM kg/hr KILOGRAM PER HOUR kPa KILOPASCAL kW KILOWATT kWh KILOWATT HOUR L LITER L/h LITERS PER HOUR (OR LITERS/HOUR) L/m LITERS PER MINUTE (OR LITERS/MINUTE) L/s LITERS PER SECOND (OR LITERS/SECOND) LAT LEAVING AIR TEMPERATURE LBS/HR POUNDS PER HOUR LF LINEAR FOOT (FEET) LGT LEAVING GLYCOL TEMPERATURE LH LATENT HEAT LPG LIQUID PROPANE GAS LPR LOW PRESSURE RETURN (STEAM CONDENSATE) LPRC LOW PRESSURE STEAM RETURN (CLEAN) LLHX LIQUID TO LIQUID HEAT EXCHANGER LPS LOW PRESSURE STEAM LPSO LOW PRESSURE STEAM (CLEAN) LSD LINEAR SLOT DIFFUSER LTCP LOCAL TEMPERATURE CONTROL PANEL LVG LEAVING LVR LOUVER LWT LEAVING WATER TEMPERATURE M METER, SI UNIT M/s METERS PER SECOND (OR METERS/SECOND) MA MIXED AIR MAT MIXED AIR TEMPERATURE MAU MAKE-UP AIR UNIT MAV MANUAL AIR VENT MAX MAXIMUM MB MIXING BOX MBH 1000 BTUH MCA MINIMUM BRANCH CIRCUIT AMPACITY MER MECHANICAL EQUIPMENT ROOM MERV MINIMUM EFFICIENCY REPORTING VALUE MH MANHOLE MHP MOTOR HORSEPOWER MIN MINIMUM MM MILLIMETER MOV MOTOR OPERATED VALVE MPR MEDIUM PRESSURE RETURN (STEAM CONDENSATE) MPS MEDIUM PRESSURE STEAM MRI MAGNETIC RESONANCE IMAGING MTD MEAN TEMPERATURE DIFFERENCE MVD MANUAL VOLUME DAMPER MZ MULTI-ZONE NA NOT APPLICABLE NC NOISE CRITERIA NC NORMALLY CLOSED NG NATURAL GAS NGFM NATURAL GAS FLOWMETER NR RETURN FAN RG RETURN GRILLE RH RELATIVE HUMIDITY RHC REHEAT COIL RHG REFRIGERANT HOT GAS RL REFRIGERANT LIQUID LINE RLA RUN LOAD AMPERE RO REVERSE OSMOSIS RPM REVOLUTIONS PER MINUTE RR RETURN REGISTER RS REFRIGERANT SUCTION RTU ROOF TOP UNIT RV RELIEF VALVE P PUMP PA PASCAL PC PUMPED CONDENSATE PCF POUNDS PER CUBIC FOOT (FEET) PD PRESSURE DROP PEF PROPELLER (TYPE) EXHAUST FAN PF PRE-FILTER PG PRESSURE GAGE PGW PROPYLENE GLYCOL-WATER (SOLUTION) PHC PREHEAT COIL PPM PARTS PER MILLION PRS PRESSURE REGULATING (VALVE) STATION PRV PRESSURE REGULATING VALVE PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH -ABSOLUTE PSG POUNDS PER SQUARE INCH -GAGE PSS PRIMARY SECONDARY SYSTEM PSV PRESSURE SAFETY VALVE PTAC PACKAGED TERMINAL AIR CONDITIONER R/E RETURN OR EXHAUST RA RETURN AIR RAD REFRIGERANT AIR DRYER RAF RADIO FREQUENCY RAHX ROTARY AIR HEAT EXCHANGER RAT RETURN AIR TEMPERATURE RCCH REMOTE CONDENSER CHILLER RCU RECIPROCATING CHILLER UNIT RD REFRIGERANT DISCHARGE RDS ROOM DATA SHEETS REA RELIEF AIR RF RETURN FAN RG RETURN GRILLE RH RELATIVE HUMIDITY RHC REHEAT COIL RHG REFRIGERANT HOT GAS RL REFRIGERANT LIQUID LINE RLA RUN LOAD AMPERE RO REVERSE OSMOSIS RPM REVOLUTIONS PER MINUTE RR RETURN REGISTER RS REFRIGERANT SUCTION RTU ROOF TOP UNIT RV RELIEF VALVE SA SUPPLY AIR SAD SOUND ATTENUATING DEVICE SAT SUPPLY AIR TEMPERATURE SC SHADING COEFFICIENT SCFM STANDARD CUBIC FEET PER MINUTE SCI SPINAL CODE INJURY SCR SILICON CONTROLLED RECTIFIER SD SMOKE DETECTOR SD SUPPLY AIR DIFFUSER SD-1 SCHEMATIC DESIGN (SUBMISSION1) SD-2 SCHEMATIC DESIGN (SUBMISSION2) SDPR SMOKE DAMPER SDR SMOKE DAMPER (RETURN) SDS SMOKE DAMPER (SUPPLY) SEN SENSIBLE HEAT SF SUPPLY FAN SG SUPPLY AIR GRILLE SH STEAM HUMIDIFIER SHC STEAM HEATING COIL SI SQUARE INCHES SP STATIC PRESSURE SP-GR SPECIFIC GRAVITY SPD SUPPLY PROCESS AND DISTRIBUTION SPRV STEAM PRESSURE REDUCING VALVE SPS STATIC PRESSURE SENSOR SQ FT SQUARE FOOT (FEET) SR SUPPLY AIR REGISTER SS STAINLESS STEEL SSHX STEAM TO STEAM HEAT EXCHANGER SSR SOLID SEPARATOR ST STEAM TRAP SUH STEAM UNIT HEATER SV STEAM PRESSURE REDUCING VALVE SVS STEAM VENT SILENCER SWHX STEAM TO WATER HEAT EXCHANGER T & PCV TEMPERATURE AND PRESSURE CONTROL VALVE TAB TESTING, ADJUSTING, BALANCE TD TEMPERATURE DIFFERENCE TDH TOTAL DYNAMIC HEAD TDS TOTAL DISSOLVED SOLIDS TG TRANSFER GRILLE TP TRAP TR TOP REGISTER TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT TU TERMINAL UNIT TWU THRU-WALL UNIT UC UNDER CUT UC UNIT COOLER UH UNIT HEATER UL UNDERWRITERS LABORATORY URV UPBLAST UNIT VENTILATOR V VALVE VAF VANE-AXIAL FAN VAV VARIABLE AIR VOLUME VD VOLUME DAMPER (MANUAL OPPOSED BLADE) VFD VARIABLE FREQUENCY DRIVE VHA VETERANS HEALTH ADMINISTRATION VI VIBRATION ISOLATOR VV VARIABLE INLET VANES VP VACUUM PUMP VPS VARIABLE PRIMARY SYSTEM VR VACUUM (STEAM CONDENSATE) RETURN VSD VARIABLE SPEED DRIVE VUH VERTICAL UNIT HEATER W WATTS WAG WASTE ANESTHESIA GAS WB WET-BULB (TEMPERATURE) WC WATER COOLED WCCW WATER COOLED CHILLER WCCU WATER COOLED CONDENSING UNIT WCHP WATER COOLED HEAT PUMPS WCPU WATER COOLED PACKAGED UNIT WEF WALL EXHAUST FAN WF WATER FILTER WFCV WATER FLOW CONTROL VALVE WFM WATER FLOWMETER WFDW WATER FLOW MEASURING DEVICE WG WATER GAGE WPD WATER SIDE PRESSURE DROP YR YEAR |
|---|

GENERAL NOTES

- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
- DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
- WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
- WALL TYPE EXHAUST REGISTERS NOTED AS "BR" ON DRAWINGS ARE TO BE INSTALLED WITH BOTTOM ELEVATION OF REGISTER AT 7" [175mm] ABOVE FINISHED FLOOR.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
- STEAM HEADER SET PRESSURE: _____ PSIG [kPa] NORMAL
_____ PSIG [kPa] LOW DEMAND PERIODS
- ALTITUDE-BOILER ROOM FLOOR: _____ FT. [M] ABOVE SEA LEVEL
- SEISMIC PROVISIONS // REQUIRED - SEE SPECS // NOT REQUIRED //
- ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED

DRAWING SYMBOLS



| | | | |
|--|--|---|--|
| Revisions: | | Date: | |
| CONSULTANTS: | | ENGINEER-OF-RECORD STEPHEN T. STEFFE FL P.E. NO. 70349 | |
| ARCHITECT/ENGINEERS: AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15 | | Drawing Title MECHANICAL ABBREVIATIONS | |
| Project Title RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | | Project Number 573-15-102 | |
| Location GAINESVILLE, FLORIDA | | Building Number 1 | |
| Approved: Project Director | | Drawing Number MH001 | |
| Date JULY 15, 2016 | | Checked STS | |
| | | Drawn TJM | |
| | | 18 OF 72 | |

Office of
Construction
and Facilities
Management
 Department of
Veterans Affairs

FINAL DESIGN
APPROVED FOR CONSTRUCTION

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

CONTROLS LEGEND

| CONTROLS SYMBOLS | DESCRIPTION |
|------------------|---|
| | ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT |
| | ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER WALL MOUNT |
| | TEMPERATURE TRANSMITTER |
| | TEMPERATURE TRANSMITTER, AVERAGING ELEMENT |
| | MOISTURE (HUMIDITY) TRANSMITTER |
| | PRESSURE TRANSMITTER |
| | STATIC PRESSURE SENSOR |
| | FLOW TRANSMITTER |
| | CURRENT TRANSMITTER |
| | CONDUCTIVITY TRANSMITTER |
| | SMOKE DETECTOR |
| | PRESSURE DIFFERENTIAL TRANSMITTER |
| | PRESSURE DIFFERENTIAL SWITCH |
| | HAND SWITCH (HAND-OFF-AUTO SWITCH) |
| | VALVE OR DAMPER POSITION CONTROLLER |
| | LOCAL RECORDING TIME CLOCK (RUNTIME) |
| | TEMPERATURE SWITCH, LOW (FREEZESTAT) |
| | TEMPERATURE SWITCH, HIGH (FREEZESTAT) |
| | LEVEL CONTROLLER |
| | LEVEL TRANSMITTER |
| | PRESSURE SWITCH HIGH |
| | PRESSURE SWITCH LOW |
| | ELECTRONIC TO PNEUMATIC TRANSDUCER |
| | CARBON DIOXIDE TRANSMITTER |
| | CARBON MONOXIDE TRANSMITTER |
| | OCCUPANCY SENSOR |
| | LOCAL TEMPERATURE CONTROL PANEL |
| | HVAC CONTROL PANEL |
| | VARIABLE SPEED MOTOR CONTROLLER |
| | INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER |
| | TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION |
| | PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION |
| | SPEED CONTROLLER. SEE SEQUENCE OF OPERATION |
| | FLOW CONTROLLER. SEE SEQUENCE OF OPERATION |
| | FLOW SWITCH HIGH |
| | FLOW SWITCH LOW |
| | TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE |
| | TEMPERATURE SENSING ELEMENT FOR TRANSMITTING TEMPERATURE TO EMCS (PROVIDE 12 INCHES [200mm] MINIMUM LENGTH IN DUCT WHEN SPACE PERMITS.) |
| | SENSOR WITH AVERAGING ELEMENT TO TRANSMIT TEMPERATURE TO EMCS |
| | MOTOR STARTER |
| | ELECTRIC OPERATED CONTROL DAMPER/OR VALVE |

NOTE : NOT ALL SYMBOLS SHOWN APPLY

MECHANICAL LEGEND

| DUCTWORK SYMBOL | DESCRIPTION |
|-----------------|---|
| | COMBINATION FIRE/SMOKE DAMPER |
| | POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERScript INDICATES NEGATIVE PRESSURE. |
| | AUTOMATIC CONTROL DAMPER MODULATING |
| | AUTOMATIC CONTROL DAMPER TWO POSITION |
| | STAINLESS STEEL DUCT |
| | MANUAL SPLITTER DAMPER |
| | STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP) |
| | DUCT MOUNTED COIL (HOT WATER OR STEAM COIL) |
| | DUCT MOUNTED COIL (ELECTRIC) |

NOTE : NOT ALL SYMBOLS SHOWN APPLY

MECHANICAL LEGEND

| DUCTWORK SYMBOL | DESCRIPTION |
|-----------------|---|
| | SUPPLY DUCT (UP & DOWN) |
| | EXHAUST DUCT (UP & DOWN) |
| | RETURN DUCT (UP & DOWN) |
| | ROUND AND SQUARE 4-WAY CEILING DIFFUSERS |
| | SQUARE 3-WAY CEILING DIFFUSERS |
| | SQUARE 2-WAY CEILING DIFFUSERS |
| | SQUARE 1-WAY CEILING DIFFUSERS |
| | LINEAR SLOT DIFFUSER |
| | SUPPLY TOP REGISTER OR GRILLE (WALL TYPE) |
| | EXHAUST OR RETURN CEILING REGISTER OR GRILLE (WALL TYPE) |
| | EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE) |
| | EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE) |
| | VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF |
| | CONNECT NEW DUCT TO EXISTING DUCT |
| | INCLINED RISE, IN DIRECTION OF AIR FLOW |
| | INCLINED DROP, IN DIRECTION OF AIR FLOW |
| | LIMIT OF DEMOLITION |
| | FLEXIBLE CONNECTION, EQUIPMENT, VIBRATION, OR SEISMIC |
| | VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING) |
| | VANED ELBOW (SHORT RADIUS) |
| | STANDARD RADIUS ELBOW (LONG RADIUS) |
| | NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH) |
| | EXISTING DUCT TO REMAIN |
| | EXISTING DUCT TO BE REMOVED |
| | LOUVER (LOUVER SPECIFIED IN ARCHITECTURAL SECTION.) |
| | FLEXIBLE DUCTWORK (INSULATED) |
| | DUCT WITH SOUND LINING |
| | MANUAL VOLUME DAMPER |
| | FIRE DAMPER |
| | BACK DRAFT DAMPER |

NOTE : NOT ALL SYMBOLS SHOWN APPLY

MECHANICAL LEGEND

| TERMINAL UNIT SYMBOL | DESCRIPTION |
|----------------------|--|
| | CONVECTOR OR RADIATOR (RECESSED) |
| | CONVECTOR OR RADIATOR (WALL HUNG) |
| | FLOOR MOUNTED VERTICAL RECESSED FAN COIL UNIT. LETTER INDICATES UNIT SIZE. |
| | FLOOR MOUNTED VERTICAL CABINET FAN COIL UNIT. LETTER INDICATES UNIT SIZE. |
| | THRU WALL AIR CONDITIONING UNIT. LETTER INDICATES UNIT SIZE. |
| | WINDOW TYPE AIR CONDITIONING UNIT. LETTER INDICATES UNIT SIZE. |
| | FLOOR MOUNTED HEAT PUMP. LETTER INDICATES UNIT SIZE. |
| | AIR CURTAIN |
| | UNIT HEATER (HORIZONTAL) |
| | UNIT HEATER (VERTICAL) |
| | 2'x2' RADIANT CEILING PANEL |
| | 2'x4' RADIANT CEILING PANEL |

NOTE : NOT ALL SYMBOLS SHOWN APPLY

| AIR TERMINAL SYMBOL | DESCRIPTION |
|---------------------|--|
| | TERMINAL UNIT WITH REHEAT COIL |
| | DOUBLE DUCT MIXING BOX. |
| | FAN POWERED VARIABLE VOLUME TERMINAL UNIT WITH HEATING COIL. |

NOTE : NOT ALL SYMBOLS SHOWN APPLY

CONSULTANTS:

ARCHITECT/ENGINEERS:

ENGINEER-OF-RECORD
STEPHEN T. STEFFE
FL P.E. NO.
70349

ARCHITECT/ENGINEERS:
AKEA Design, Inc.
3603 NW 98th Street, Suite B
Gainesville, FL 32606
Phone: (352) 474-6124
Fax: (352) 474-6324
COA: FL #29578
AKEA Project No. 110-15

Drawing Title
MECHANICAL LEGEND

Approved: Project Director

Project Title
RENOVATE 3AB FOR
GASTROENTEROLOGY AND
PULMONARY

Location
GAINESVILLE, FLORIDA

Date
JULY 15, 2016

Checked
STS

Drawn
TJM

Project Number
573-15-102

Building Number
1

Drawing Number
MH002
19 OF 72

Office of
Construction
and Facilities
Management
Department of
Veterans Affairs

VA FORM 08-6231

1

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three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

PIPING SYMBOLS

| PIPING SYMBOL | DESCRIPTION |
|---------------|--|
| —HPS— | HIGH PRESSURE STEAM (60 PSIG AND ABOVE) |
| ---HPR--- | HIGH PRESSURE STEAM CONDENSATE RETURN |
| —MPS— | MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG) |
| ---MPR--- | MEDIUM PRESSURE STEAM CONDENSATE RETURN |
| —LPS— | LOW PRESSURE STEAM (15 PSIG AND BELOW) |
| ---LPR--- | LOW PRESSURE STEAM CONDENSATE RETURN |
| —PC— | CONDENSATE PUMP DISCHARGE |
| —HWS— | HOT WATER HEATING SUPPLY |
| ---HWR--- | HOT WATER HEATING RETURN |
| —GWS— | GLYCOL-WATER HEATING SUPPLY |
| ---GWR--- | GLYCOL-WATER HEATING RETURN |
| —DWS— | SOLAR WATER SUPPLY |
| ---SWR--- | SOLAR WATER RETURN |
| —RL— | REFRIGERANT LIQUID |
| —RS— | REFRIGERANT SUCTION |
| —RHG— | REFRIGERANT HOT GAS |
| —DWS— | CONDENSER WATER SUPPLY (FROM TOWER) |
| ---CWR--- | CONDENSER WATER RETURN (TO TOWER) |
| —CWS— | CHILLED WATER SUPPLY |
| ---CWR--- | CHILLED WATER RETURN |
| —GCS— | CHILLED GLYCOL-WATER SUPPLY |
| ---GCR--- | CHILLED GLYCOL-WATER RETURN |
| —MW— | MAKE-UP WATER |
| —D— | DRAIN LINE |
| —V— | VENT LINE |
| —GRS— | GLYCOL-WATER RUN AROUND SUPPLY |
| ---GRR--- | GLYCOL-WATER RUN AROUND RETURN |
| —X— | EXISTING PIPE TO BE REMOVED |
| —FWPD— | FEEDWATER PUMP DISCHARGE |
| —FWPS— | FEEDWATER PUMP SUCTION |
| —CTPD— | CONDENSATE TRANSFER PUMP DISCHARGE |
| —CTPS— | CONDENSATE TRANSFER PUMP SUCTION |
| —VR— | VACUUM CONDENSATE RETURN |
| —TC— | TUBE CLEANER WATER SUPPLY |
| —BO— | BOILER BLOWOFF |
| —CBD— | CONTINUOUS BLOWDOWN |
| —BWS— | BOILER WATER SAMPLE |
| —FWS— | FEEDWATER SAMPLE (FROM DEAERATOR) |
| —CF— | CHEMICAL FEED |
| —OFL— | OVERFLOW |
| —A— | COMPRESSED AIR |
| —G— | NATURAL GAS MAIN FUEL |
| —G(I)— | NATURAL GAS IGNITER FUEL |
| —LPG(I)— | LIQUEFIED PETROLEUM GAS IGNITER FUEL |
| —FOS— | FUEL OIL SUPPLY |
| —FOR— | FUEL OIL RETURN |
| —CW— | COLD WATER (CITY WATER) |
| —SW— | SOFTENED WATER |
| —HW— | HOT WATER |
| —RH— | ROLLER-TYPE HANGER |
| —SH— | VARIABLE SPRING-TYPE HANGER (TYPE 51)* |
| —SCH— | SPRING CUSHION-TYPE HANGER (TYPE 48 OR 49)* |
| —TH— | CLEVIS-TYPE HANGER |
| —TS— | TRAPEZE HANGER (PROVIDE U-BOLT PIPE ATTACHMENT TO TRAPEZE EXCEPT WHERE RH ARE INDICATED) |
| —FS— | FLOOR-SUPPORTED PIPE STAND |
| —RC— | RISER CLAMP (TYPE 42)* |
| —G— | WALL BRACKET (TYPE 31, 32, 33)* |
| —WB— | CONSTANT SUPPORT HANGER (TYPE 54, 55, 56)* |
| —CSH— | SLIDING SUPPORTS (TYPE 35)* |
| —SS— | |

NOTE :
NOT ALL SYMBOLS
SHOWN APPLY

* TYPE NUMBERS REFER TO MANUFACTURER'S STANDARDIZATION SOCIETY
STANDARD PRACTICE SP-58

GENERAL PIPING SYMBOLS

| PIPING SYMBOL | DESCRIPTION |
|---------------|---|
| —→— | DIRECTION OF PIPE PITCH (DOWN) |
| —→— | DIRECTION OF FLOW |
| —X— | ANCHOR |
| —▷— | REDUCER OR INCREASER |
| —▷— | ECCENTRIC REDUCER |
| —J— | TOP CONNECTION, 45° OR 90° |
| —J— | BOTTOM CONNECTION, 45° OR 90° |
| —J— | SIDE CONNECTION |
| —T— | CAPPED OUTLET |
| —▷— | RISE OR DROP IN PIPE |
| — — | UNION |
| —O— | PIPE UP |
| —C— | PIPE DOWN |
| —X— | INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL |
| —X— | FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL |
| —X— | THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL |
| —T— | THERMOMETER |
| —T— | PRESSURE GAGE |
| —T— | FLOW ELEMENT |
| —T— | REFRIGERANT SIGHT GLASS |
| —T— | TEST PLUG (PRESSURE/TEMPERATURE) |
| —T— | AUTOMATIC AIR VENT |
| —T— | MANUAL AIR VENT |
| —T— | QUICK-COUPLE HOSE CONNECTOR |

NOTE :
NOT ALL SYMBOLS
SHOWN APPLY

VALVE SYMBOLS

| VALVE SYMBOL | DESCRIPTION |
|--------------|--|
| —▷— | GATE VALVE - THREADED/FLANGED |
| —▷— | GLOBE VALVE - THREADED/FLANGED |
| —▷— | GATE VALVE WITH 3/4" HOSE ADAPTER |
| —▷— | CHECK VALVE |
| —▷— | WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION) |
| —▷— | WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR |
| —▷— | FLEXIBLE CONNECTION |
| —▷— | ANGLE GLOBE VALVE |
| —▷— | BUTTERFLY VALVE |
| —▷— | BALL VALVE |
| —▷— | MODULATING CONTROL VALVE |
| —▷— | MODULATING CONTROL BUTTERFLY VALVE |
| —▷— | TWO POSITION CONTROL VALVE |
| —▷— | THREE-WAY MODULATING CONTROL VALVE |
| —▷— | THREE-WAY TWO POSITION CONTROL VALVE |
| —▷— | PRESSURE REGULATING VALVE |
| —▷— | PRESSURE SAFETY VALVE |
| —▷— | AUTOMATIC BALANCING CONTROL VALVE |
| —▷— | WATER BALANCE DEVICE |
| —▷— | CIRCUIT SETTER VALVE |
| —▷— | GATE VALVE WITH GLOBE-VALVED BYPASS |
| —▷— | PLUG VALVE |
| —▷— | CONTROL VALVE (CV) - FLOAT-OPERATED |
| —▷— | PRESSURE REDUCING VALVE (PRV) |
| —▷— | WATER LEVEL CONTROLLER |
| —▷— | FLOW METER |

NOTE :
NOT ALL SYMBOLS
SHOWN APPLY

VA FORM 08-6231

Revisions:

Date:

CONSULTANTS:

ENGINEER-OF-RECORD
STEPHEN T. STEFFE
FL P.E. NO.
70349

ARCHITECT/ENGINEERS:
AKEA Design, Inc.
3603 NW 98th Street, Suite B
Gainesville, FL 32606
Phone: (352) 474-6124
Fax: (352) 474-6324
COA: FL #29578
AKEA Project No. 110-15

Drawing Title
PIPING AND VALVE SYMBOLS

Approved: Project Director

Project Title
RENOVATE 3AB FOR
GASTROENTEROLOGY AND
PULMONARY

Location
GAINESVILLE, FLORIDA

Date
JULY 15, 2016

Checked
STS

Drawn
TJM

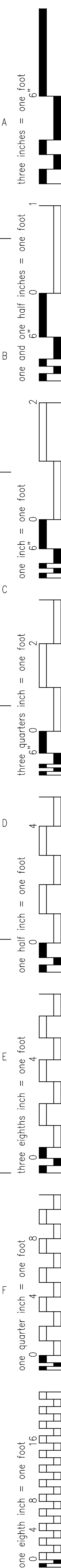
Project Number
573-15-102

Building Number
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Drawing Number
MH003
20 OF 72

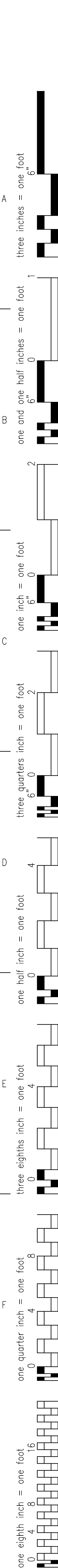
Office of
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Management

Department of
Veterans Affairs



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| VA FORM 08-6231 | | | | | | | | | |
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- A. RADIANT CEILING PANELS (RCP) AND ASSOCIATED PIPING ARE TAKEN FROM OLD AS-BUILT DOCUMENTS. FIELD VERIFY EXACT LOCATION OF RCPs AND PIPING. DEMOLISH EXISTING RCP AND PIPING IN PHASE 2 OF RENOVATED AREA.
- B. VALVE AND CAP BRANCH PIPING TO MAINTAIN MAIN RCP PIPING. PROVIDE NEW RCP BYPASS PIPING AS NECESSARY TO CONNECT TO EXISTING RCP PIPING TO MAINTAIN OPERATION OF REMAINING SYSTEM.

- 1 REMOVE EXISTING DUCTWORK AS SHOWN.
- 2 PREPARE REMAINING SUPPLY AIR DUCT FOR CONNECTION TO NEW DUCT.
- 3 PREPARE REMAINING EXHAUST AIR DUCT FOR CONNECTION TO NEW DUCT.
- 4 TEMPORARILY CAP AND SEAL EXISTING SUPPLY MAIN DUCT.
- 5 TEMPORARILY CAP AND SEAL EXISTING EXHAUST MAIN DUCT.
- 6 EXISTING DUCT TO REMAIN.
- 7 INSTALL TEMPORARY SUPPLY DUCT TO MATCH EXISTING AND CONNECT TO RISER IN CHASE.
- 8 INSTALL TEMPORARY EXHAUST DUCT TO MATCH EXISTING AND CONNECT TO RISER IN CHASE.

RCP = RADIANT CEILING PANEL



Office of
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| ENGINEER - OF - RECORD | FL. P.E. NO. |
| STEPHEN T. STEFFE | 70349 |

AKEA Design, Inc.
3603 NW 98th Street, Suite B
Gainesville, FL 32606
Phone: (352) 474-6124
Fax: (352) 474-6324
COA: FL #29578
AKEA Project No. 110-15

PHASE 2 - AREA B - FLOOR PLAN - HVAC
DEMOLITION

RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY

Date
JULY 15, 2016

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| Drawn | TJM |
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| Building Number |
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PHASE 2 - AREA B - FLOOR PLAN - HVAC
DEMOLITION

RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY

Date
JULY 15, 2016

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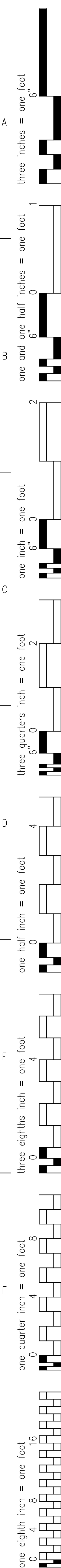
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MD101
22 OF 72

22 OF 72

Office of
Construction
and Facilities
Management





- A. RADIANT CEILING PANELS (RCP) AND ASSOCIATED PIPING ARE TAKEN FROM OLD AS-BUILT DOCUMENTS. FIELD VERIFY EXACT LOCATION OF RCPs AND PIPING. DEMOLISH EXISTING RCP AND PIPING IN PHASE 3 OF RENOVATED AREA.
- B. VALVE AND CAP BRANCH PIPING TO MAINTAIN MAIN RCP PIPING. PROVIDE NEW RCP BYPASS PIPING AS NECESSARY TO CONNECT TO EXISTING RCP PIPING TO MAINTAIN OPERATION OF REMAINING SYSTEM.
- C. SEE MH200, MH201, AND MH202 FOR NEW HVAC SYSTEMS TO INTERFACE WITH DEMOLITION

- 1 REMOVE EXISTING DUCTWORK AND ASSOCIATED AIR DEVICES AS SHOWN.
- 2 REMOVE TEMPORARY DUCT BACK TO CHASE AND SEAL DUCT RISER IN CHASE.


RCP = RADIANT CEILING PANEL



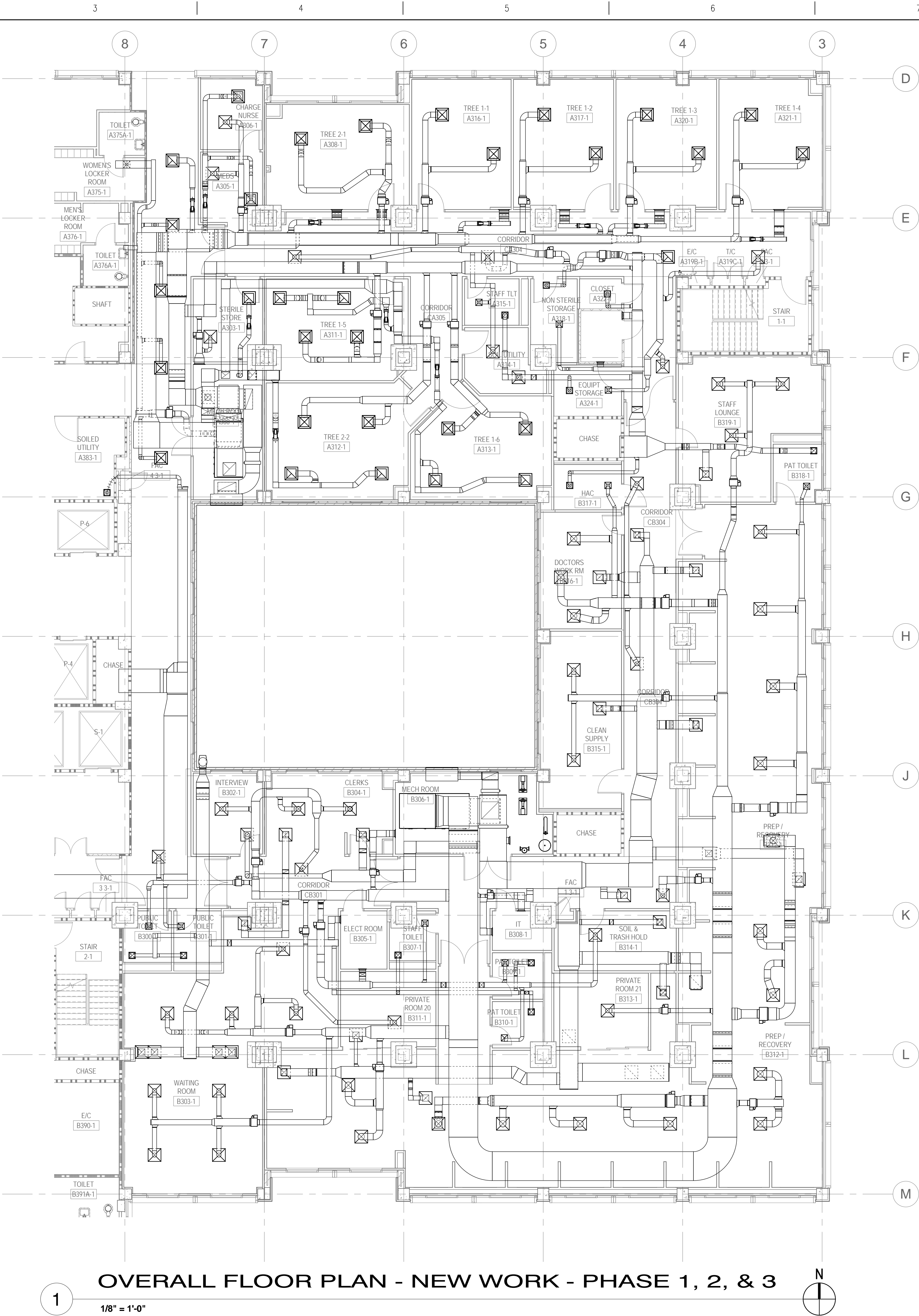
Office of
Construction
and Facilities
Management



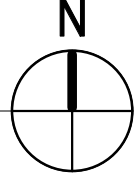
1 $\frac{1}{8}" = 1'-0"$

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| | | CONSULTANTS: | ENGINEER - OF - RECORD STEPHEN T. STEFFE FL. P.E. NO. 70349 | ARCHITECT/ENGINEERS: <div><div><div>AKEA</div><div>Design, Inc.</div></div><div>3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15</div></div> | Drawing Title | Project Number | Project Title | Project Number | Office of Construction and Facilities Management | |
| | | | | | PHASE 3 - AREA A - FLOOR PLAN - HVAC DEMOLITION | 573-15-102 | RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | Building Number | | MD102 23 OF 72 |
| | | | | | Approved: Project Director | Location | Building Number | | | |
| | | | | | | GAINESVILLE, FLORIDA | 1 | | | |
| | | | | | | Date | Checked | Drawn | | |
| | | | | | | JULY 15, 2016 | STS | TJM | | |
| REV1-ADDENDUM1 | 7/29/2016 | | | | | | | |  Department of Veterans Affairs | |
| Revisions: | Date | | | | | | | | | |

three inches = one foot
one and one half inches = one foot
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1 OVERALL FLOOR PLAN - NEW WORK - PHASE 1, 2, & 3
1/8" = 1'-0"

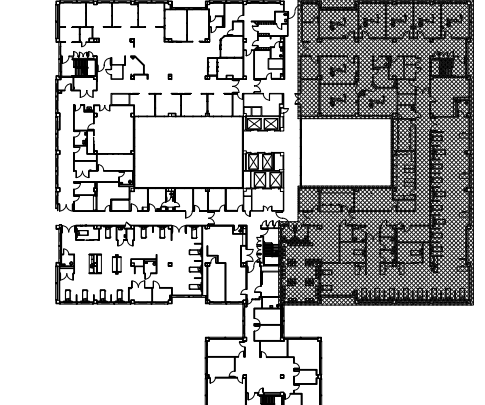


SHEET NOTES


A. SEE SHEETS MH201 AND MH202 FOR EQUIPMENT, DEVICES, AND SYSTEM IDENTIFICATION.

SHEET KEYNOTES

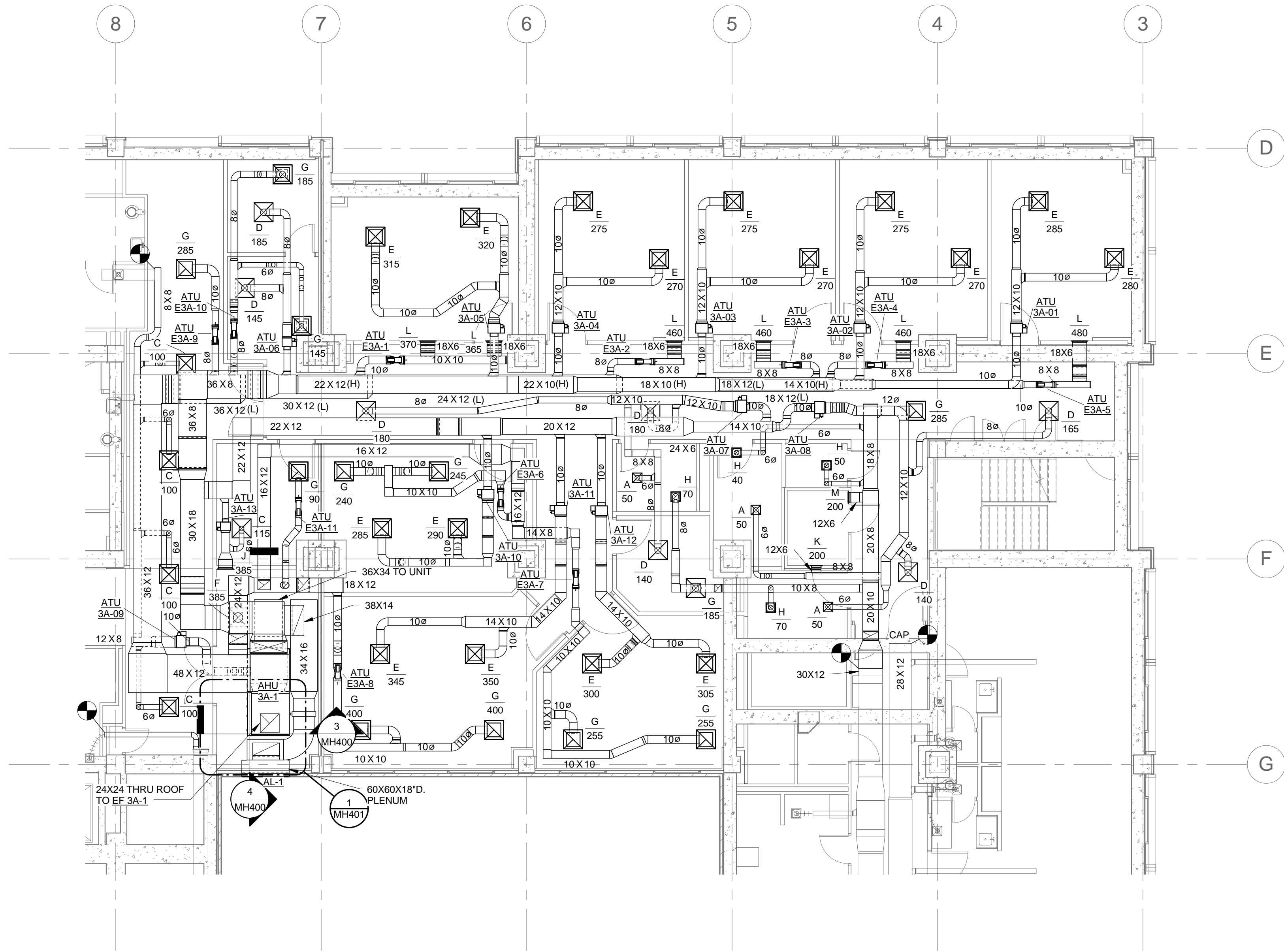
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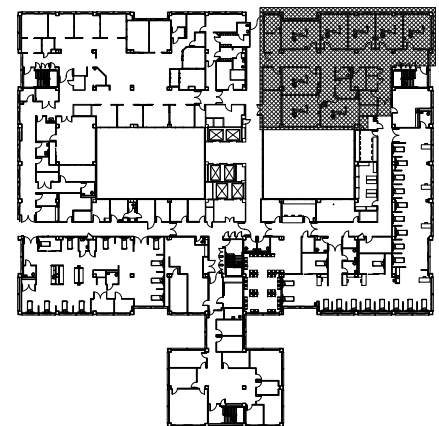
FINAL DESIGN
APPROVED FOR CONSTRUCTION

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| | | CONSULTANTS: | | ENGINEER - OF - RECORD STEPHEN T. STEFFE FL. P.E. NO. 70349 | | ARCHITECT/ENGINEERS: | | Drawing Title AREA A&B - OVERALL FLOOR PLAN - NEW HVAC | | Project Title RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | | Project Number 573-15-102 | | Office of Construction and Facilities Management | | | | | |
| | | | | | | AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15 | | Approved: Project Director | | Location GAINESVILLE, FLORIDA | | Building Number 1 | | | | | | | |
| REV 1 - ADDENDUM 1 Revisions: | | 7/29/2016 Date | | | | | | | | Date JULY 15, 2016 | | Checked STS | | Drawn TJM | | Drawing Number MH200 24 OF 72 | |  Department of Veterans Affairs | |
| | | | | | | | | | | | | | | | | | | | |

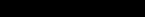
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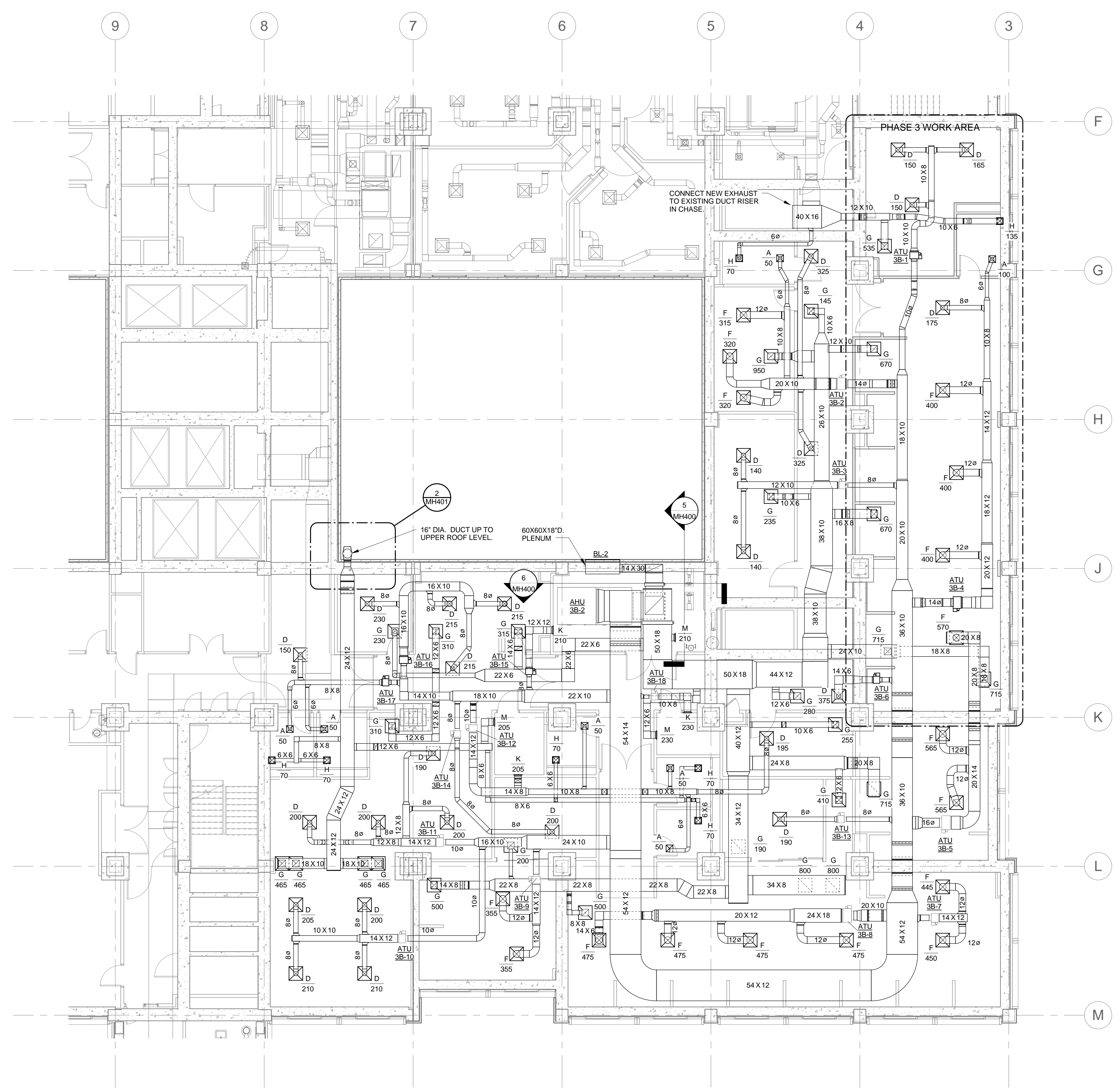
1 3RD FLOOR - NEW WORK - PARTIAL PLAN - PHASE 1
1/8" = 1'-0"



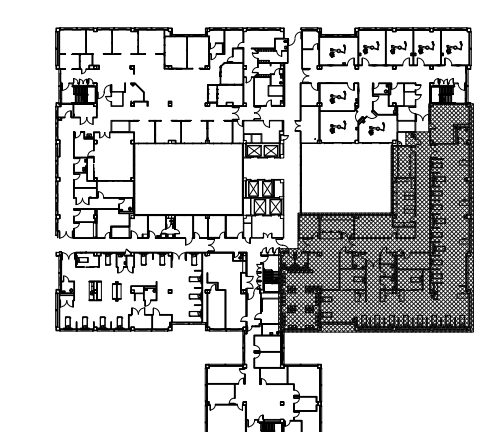
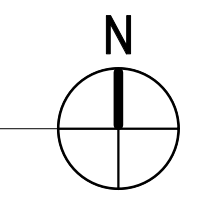
FINAL DESIGN
APPROVED FOR CONSTRUCTION

| | | | | | | | | | | | |
|--------------------|-----------|--------------|--|--|---|--|---|----------------------|---|--------------|-------------------|
| | | CONSULTANTS: | | ENGINEER - OF - RECORD STEPHEN T. STEFFE FL. P.E. NO. 70349 | ARCHITECT/ENGINEERS: <div><div>AKEA</div><div>Design, Inc.</div><div>3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15</div></div> | Drawing Title | Project Title | Project Number | Office of Construction and Facilities Management | | |
| | | | | | | PHASE 1 - AREA A - FLOOR PLAN - NEW HVAC | RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | 573-15-102 | | | |
| | | | | | | | | Building Number 1 | | | |
| | | | | | | Approved: Project Director | Location GAINESVILLE, FLORIDA | Drawing Number | | | |
| | | | | | | | Date JULY 15, 2016 | Checked STS | | Drawn TJM | MH201 25 OF 72 |
| | | | | | | | | | | | |
| REV 1 - ADDENDUM 1 | 7/29/2016 | | | | | | | | | | |
| Revisions: | Date | | | | | | | |  Department of Veterans Affairs | | |


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
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one eighth inch = one foot



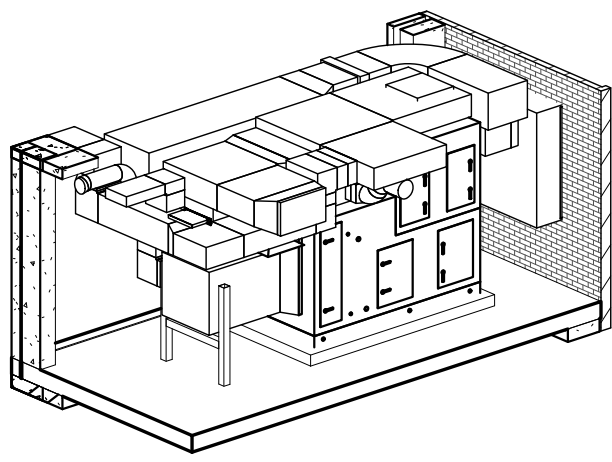
1 3RD FLOOR - NEW WORK - PARTIAL PLAN - PHASE 2&3
1/8" = 1'-0"



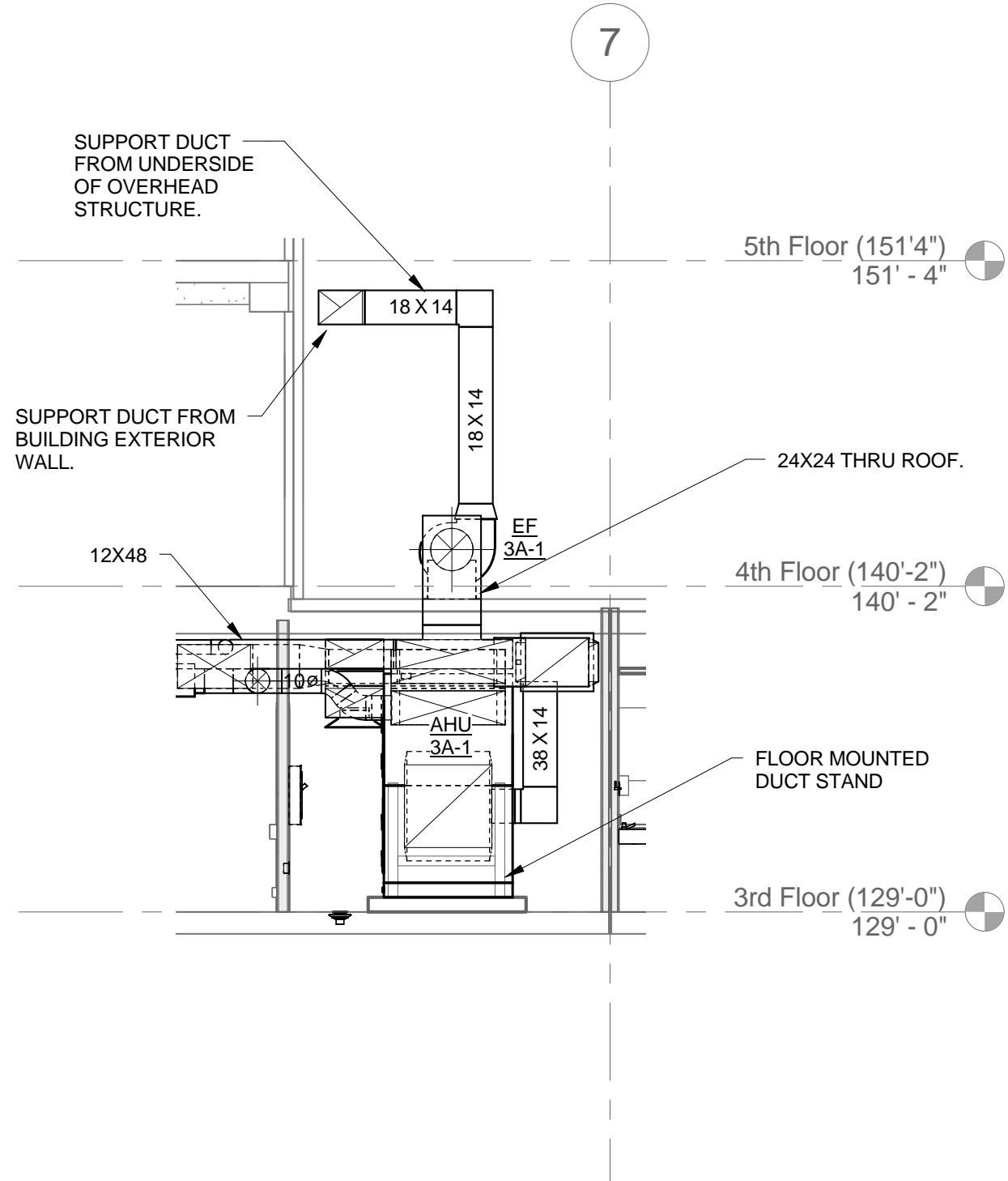
FINAL DESIGN
APPROVED FOR CONSTRUCTION

| | | | | | | | | | | | | | |
|--------------------|-----------|--------------|--|---|-----------------------|--|--|--|----------------------------------|---|---|--------------|--|
| | | CONSULTANTS: | | ENGINEER - OF - RECORD STEPHEN T. STEFFE | FL. P.E. NO. 70349 | ARCHITECT/ENGINEERS: <div>AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15</div> | Drawing Title PHASE 2&3 - AREA B - FLOOR PLAN - NEW HVAC | Project Title RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | Project Number 573-15-102 | Office of Construction and Facilities Management | | | |
| | | | | | | | | | Building Number 1 | | | | |
| | | | | | | | | Approved: Project Director | Location GAINESVILLE, FLORIDA | | Drawing Number MH202 | | |
| | | | | | | | | | Date JULY 15, 2016 | | Checked STS | Drawn TJM | |
| REV 1 - ADDENDUM 1 | 7/29/2016 | | | | | | | | | | | 26 OF 72 | |
| Revisions: | Date | | | | | | | | | |  Department of Veterans Affairs | | |

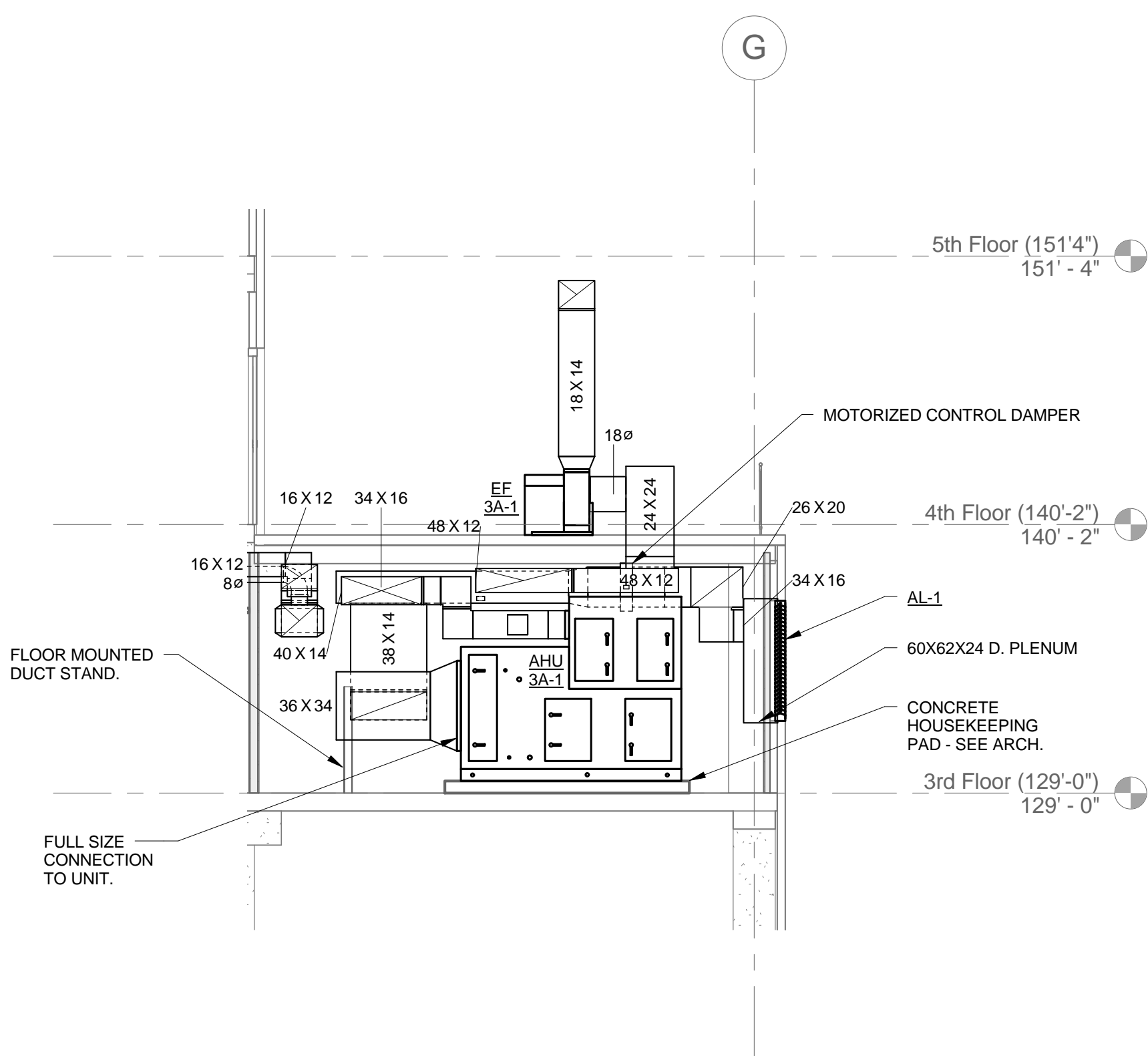
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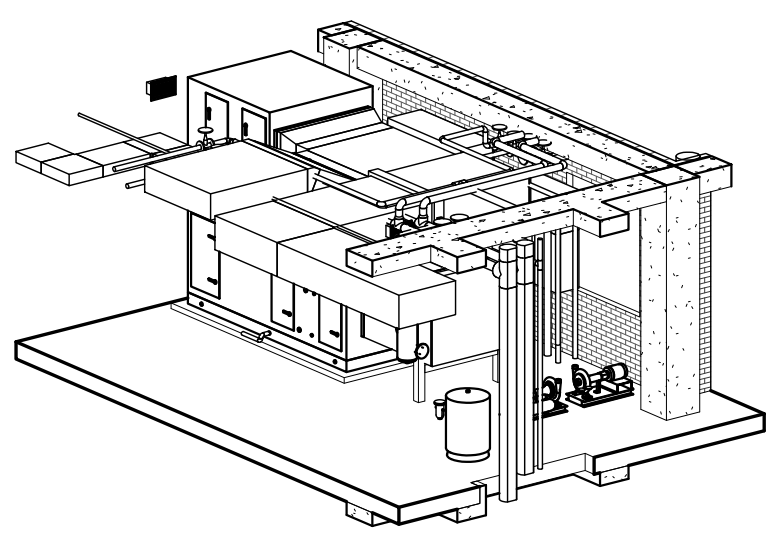
1 3D - 3A MECHANICAL ROOM



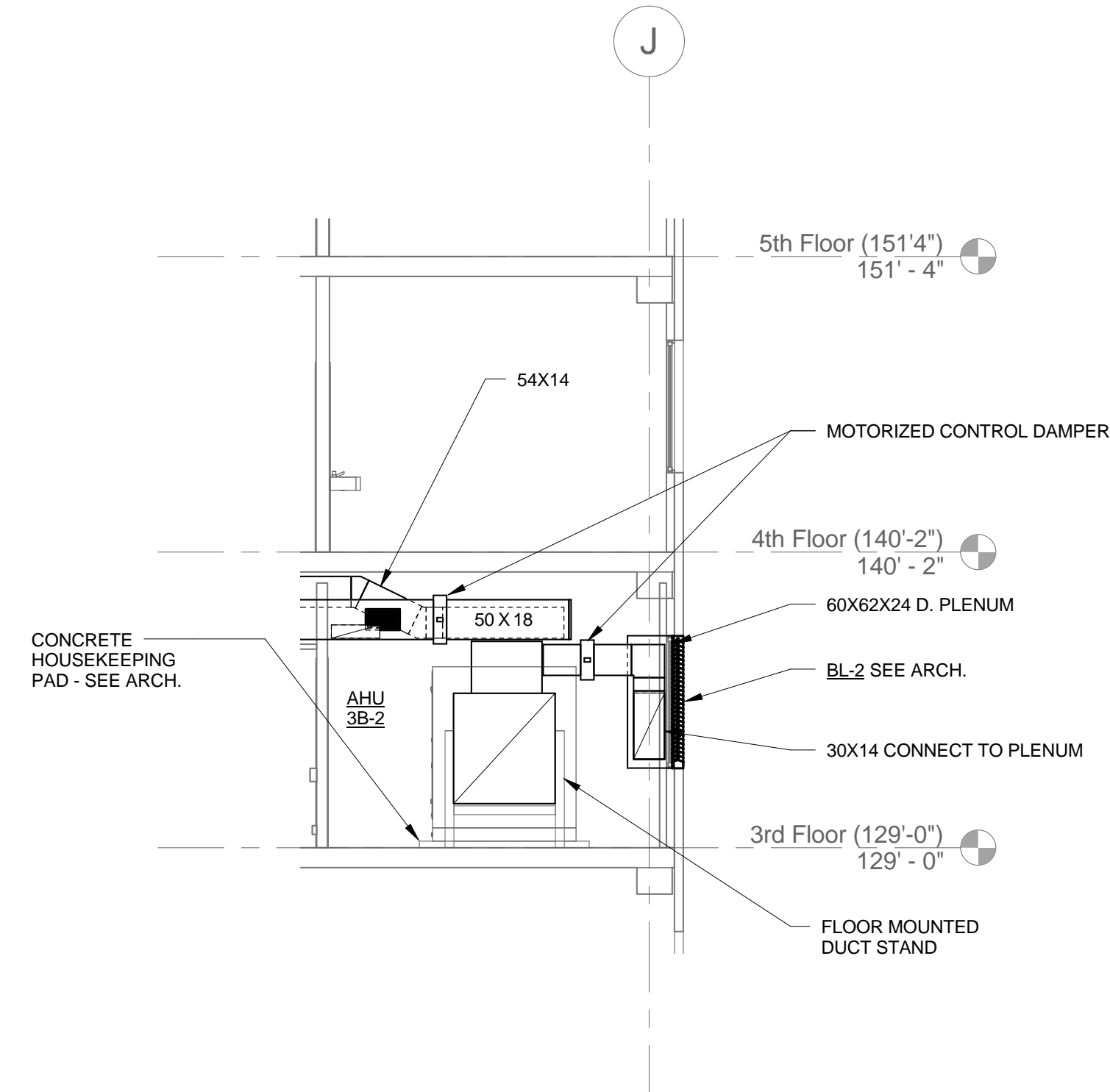
3 SECTION - 3A M.E.R. A300-1 - AHU 3A-1
3/16" = 1'-0"



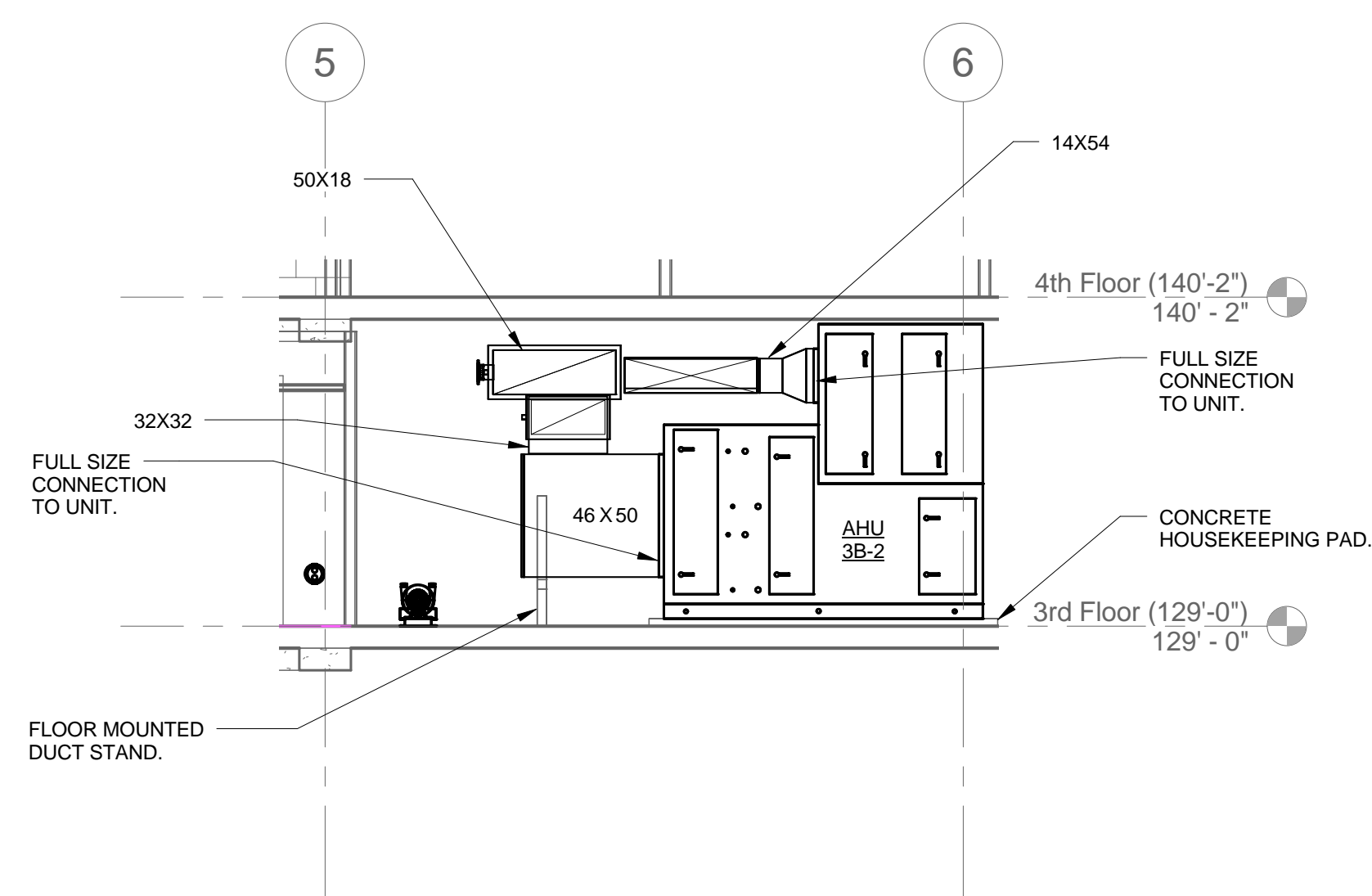
4 SECTION - 3A M.E.R. A300-1 - AHU 3A-1
3/16" = 1'-0"




2 3D - 3B MECHANICAL ROOM



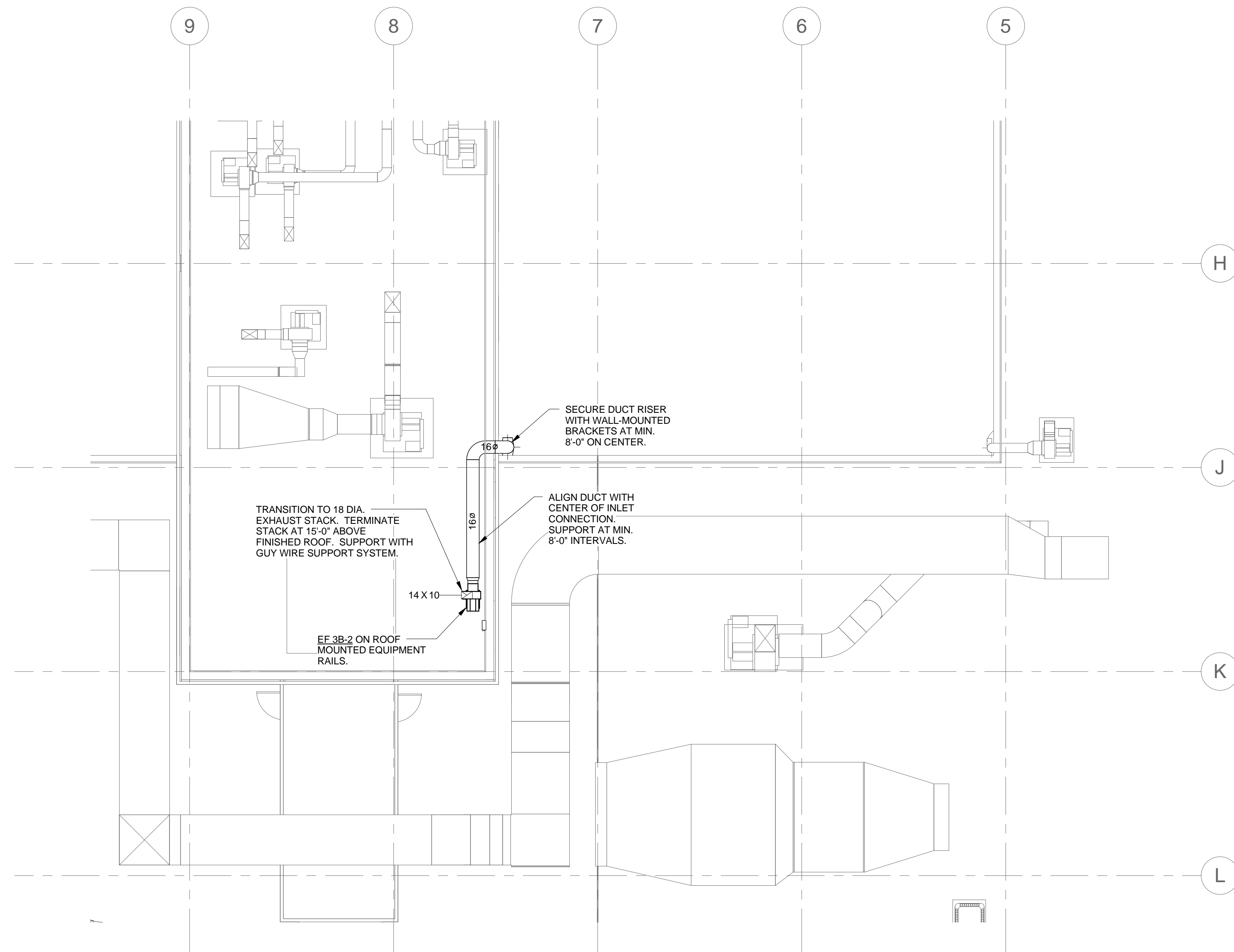
5 SECTION - 3B M.E.R. B306-1 - AHU 3B-2
3/16" = 1'-0"



6 SECTION - 3B M.E.R. B306-1 - AHU 3B-2
3/16" = 1'-0"


| | | | | | | | | | | |
|--------------------|-----------|--------------|--|---|-----------------------|--|----------------------------|---|-----------------|---|
| | | CONSULTANTS: | | ENGINEER - OF - RECORD STEPHEN T. STEFFE | FL. P.E. NO. 70349 | ARCHITECT/ENGINEERS: AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15 | Drawing Title | Project Title | Project Number | Office of Construction and Facilities Management |
| | | | | | | | MECHANICAL ROOM SECTIONS | RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | 573-15-102 | |
| | | | | | | | | | Building Number | |
| | | | | | | | | | 1 | |
| | | | | | | | Approved: Project Director | Location | Drawing Number |  Department of Veterans Affairs |
| | | | | | | | | GAINESVILLE, FLORIDA | MH400 | |
| | | | | | | | | Date | | |
| REV 1 - ADDENDUM 1 | 7/29/2016 | | | | | | JULY 15, 2016 | STS | TJM | 27 OF 72 |
| Revisions: | Date | | | | | | | | | |

FINAL DESIGN
APPROVED FOR CONSTRUCTION



PARTIAL 3B UPPER LEVEL ROOF PLAN

$$1/8'' = 1'-0''$$

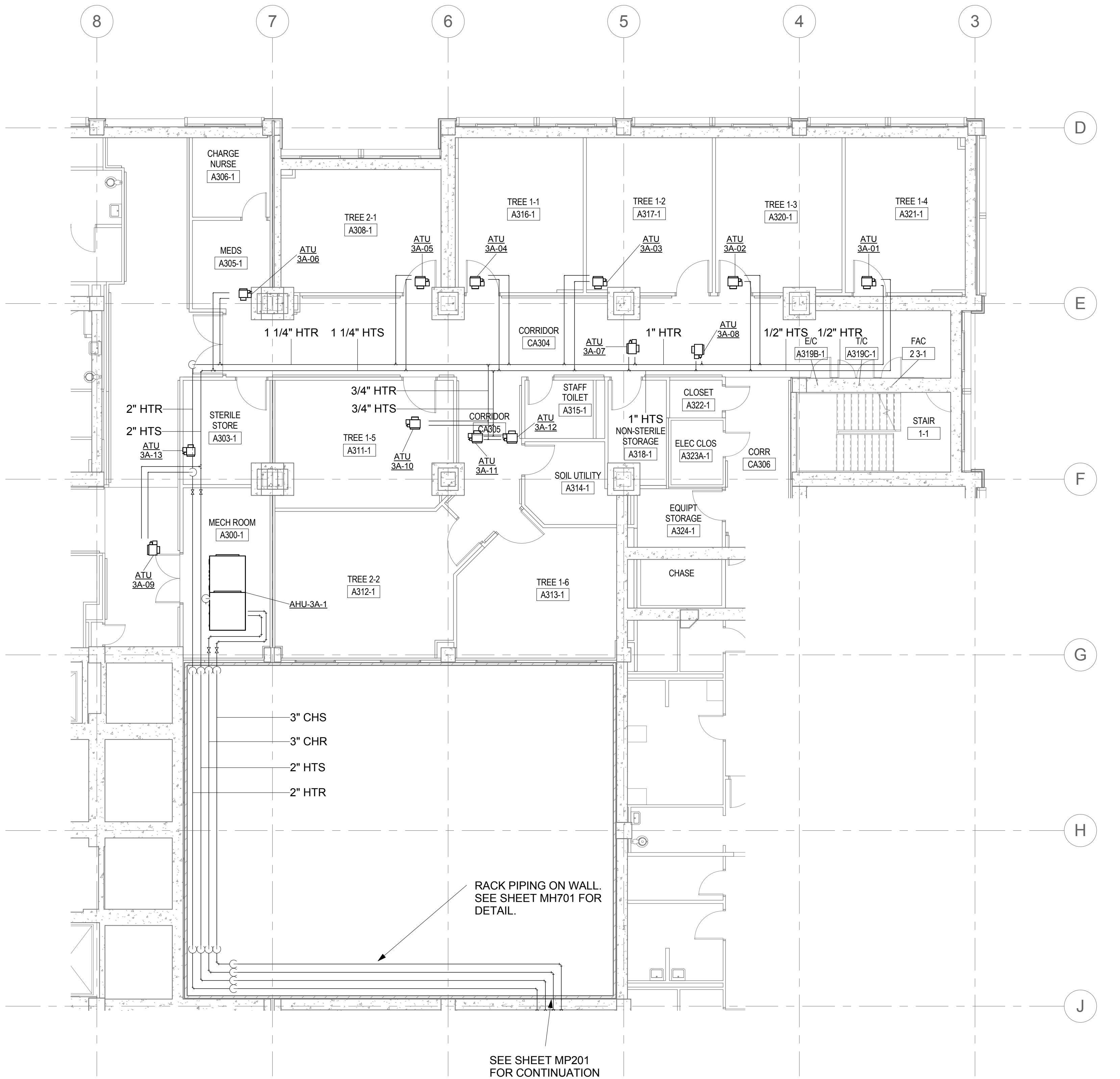
| | | | | | | | | | | |
|--------------------|-----------|-------------------------|--|---|--|---|---|--|---------------------------------|---------------------|
| | | <div>CONSULTANTS:</div> | <div>ENGINEER - OF RECORD STEPHEN T. STEFFE</div> <div>FL P.E. NO. 70360</div> | <div>ARCHITECT/ENGINEERS:</div> <div><div>AKEA</div><div>Design, Inc.</div><div>3603 NW 98th Street, Suite B</div><div>Gainesville, FL 32606</div><div>Phone: (352) 474-6124</div><div>Fax: (352) 474-6324</div><div>COA: FL #29578</div><div>AKEA Project No. 110-15</div></div> | <div>Drawing Title</div> <div>PARTIAL ROOF PLANS</div> | <div>Project Title</div> <div>RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY</div> | <div>Project Number</div> <div>573-15-102</div> | <div>Office of Construction and Facilities Management</div> <div><div></div><div>Department of Veterans Affairs</div></div> | | |
| | | | | | <div>Building Number</div> <div>1</div> | <div>Drawing Number</div> <div>MH401</div> | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| REV 1 - ADDENDUM 1 | 7/29/2016 | | | | <div>Approved: Project Director</div> | <div>Location</div> <div>GAINESVILLE, FLORIDA</div> | <div>Date</div> <div>JULY 15, 2016</div> | <div>Checked</div> <div>STS</div> | <div>Drawn</div> <div>TJM</div> | <div>28 OF 72</div> |
| Revisions: | Date | | | | | | | | | |

FINAL DESIGN
APPROVED FOR CONSTRUCTION

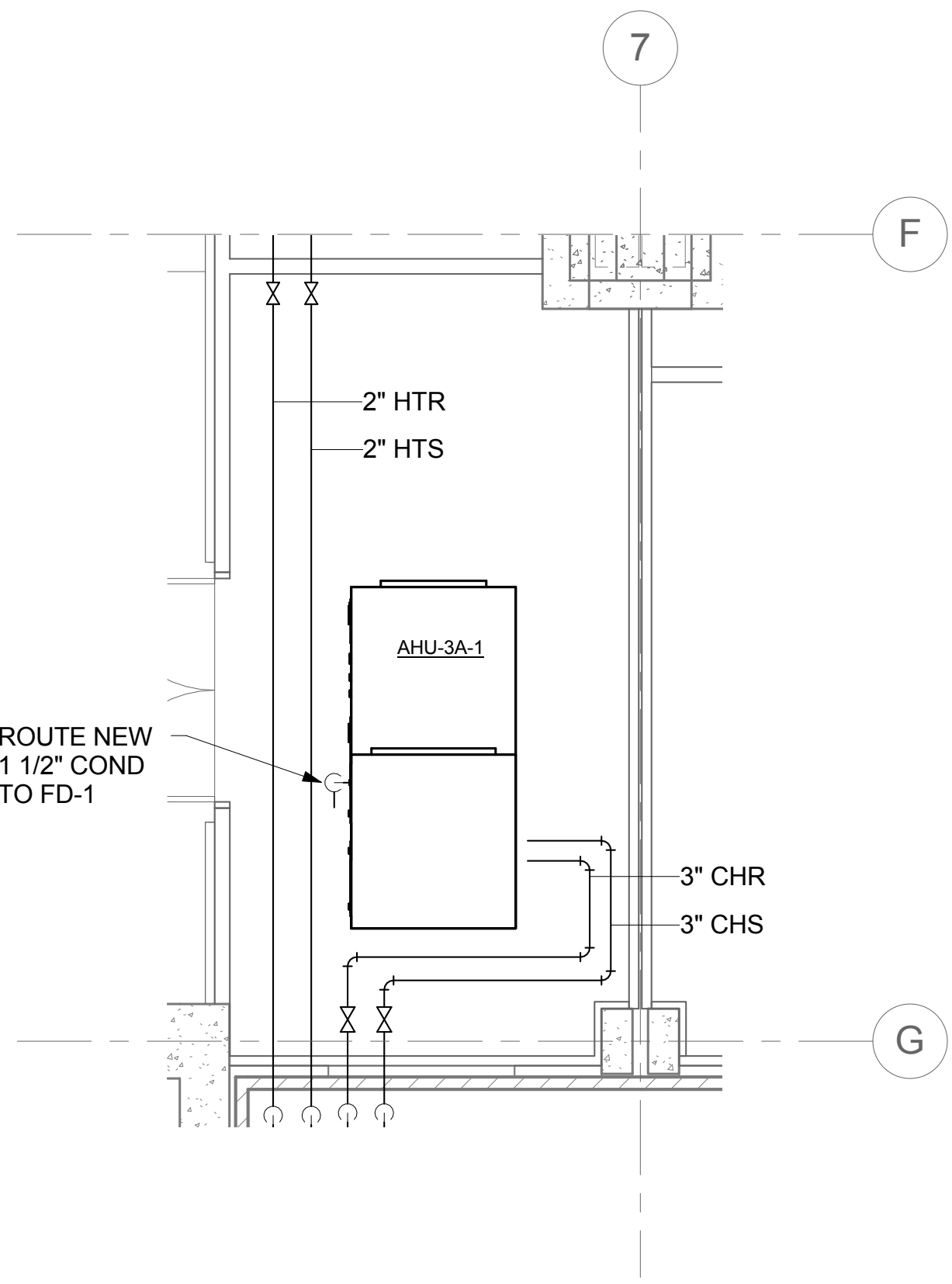
Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

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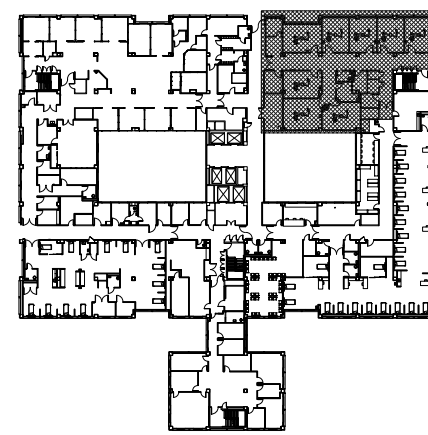


1 3RD FLOOR - NEW WORK - PARTIAL PIPING PLAN - PHASE 1
1/8" = 1'-0"



2 PARTIAL PIPING PLAN - MECH ROOM A300-1
1/4" = 1'-0"

- SHEET NOTES**
- A. ALL HTS AND HTR BRANCH PIPING TO BE 1/2" UNLESS NOTED OTHERWISE.
 - B. CONTRACTOR TO COORDINATE PIPE ELEVATIONS AND ROUTING WITH OTHER DISCIPLINES DURING INSTALLATION.
- SHEET KEYNOTES**
- 1. RESERVED



FINAL DESIGN
APPROVED FOR CONSTRUCTION

| | | | | | | | |
|--------------|--|---|--|---|---|--------------------------------|--|
| CONSULTANTS: | | ENGINEER - OF - RECORD STEPHEN T. STEFFE FL. P.E. NO. 70349 | ARCHITECT/ENGINEERS: AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 474-6324 COA: FL #29578 AKEA Project No. 110-15 | Drawing Title PHASE 1 - AREA A - FLOOR PLAN - NEW MECHANICAL PIPING | Project Title RENOVATE 3AB FOR GASTROENTEROLOGY AND PULMONARY | Project Number 573-15-102 | Office of Construction and Facilities Management Department of Veterans Affairs |
| | | | | Approved: Project Director | Location GAINESVILLE, FLORIDA | Building Number 1 | |
| Revisions: | | Date | | | Date JULY 14, 2016 | Checked STS | |
| | | | | | Drawn CRR | Drawing Number MP200 | |
| | | | | | | 29 OF 72 | |

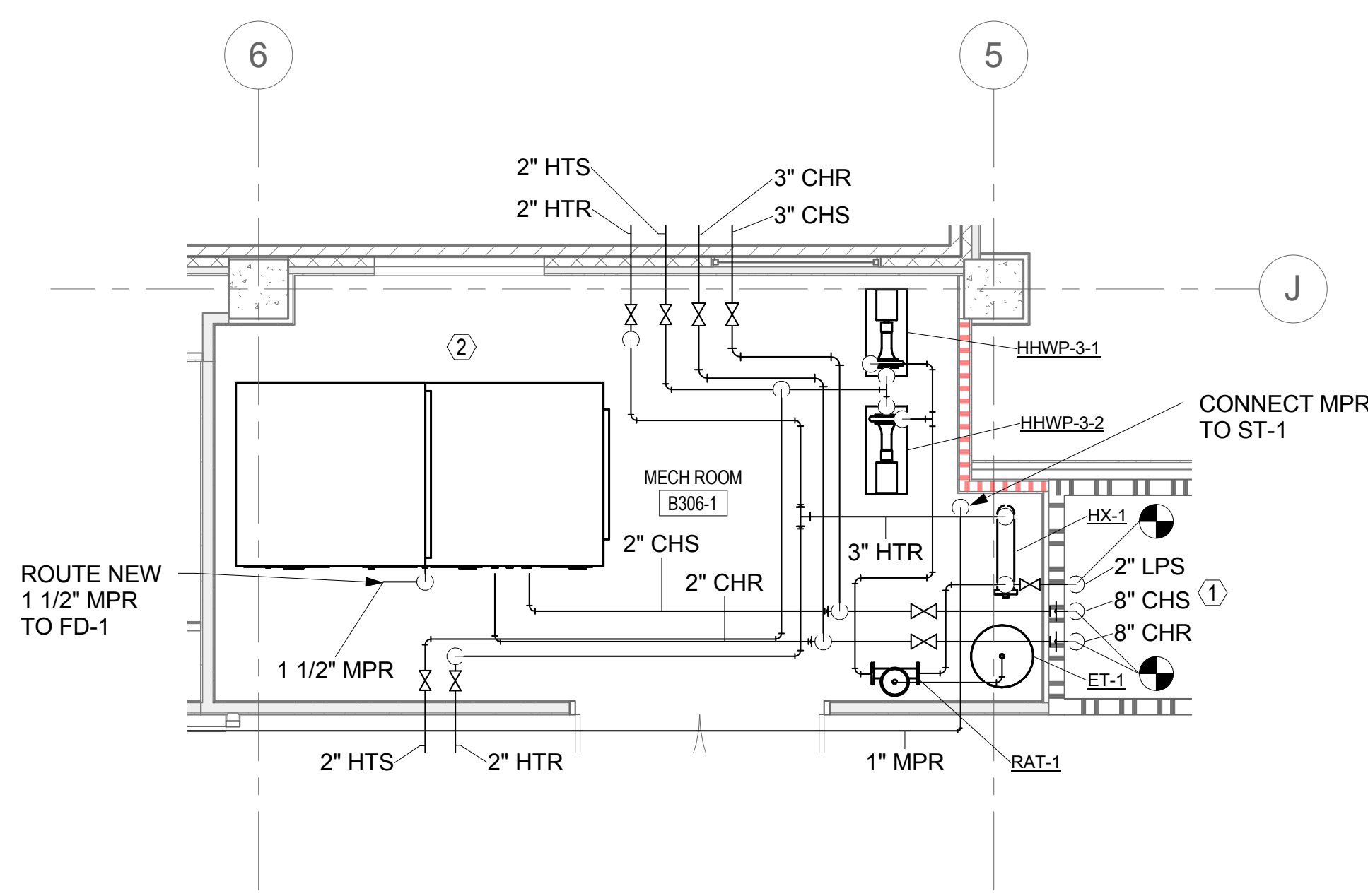
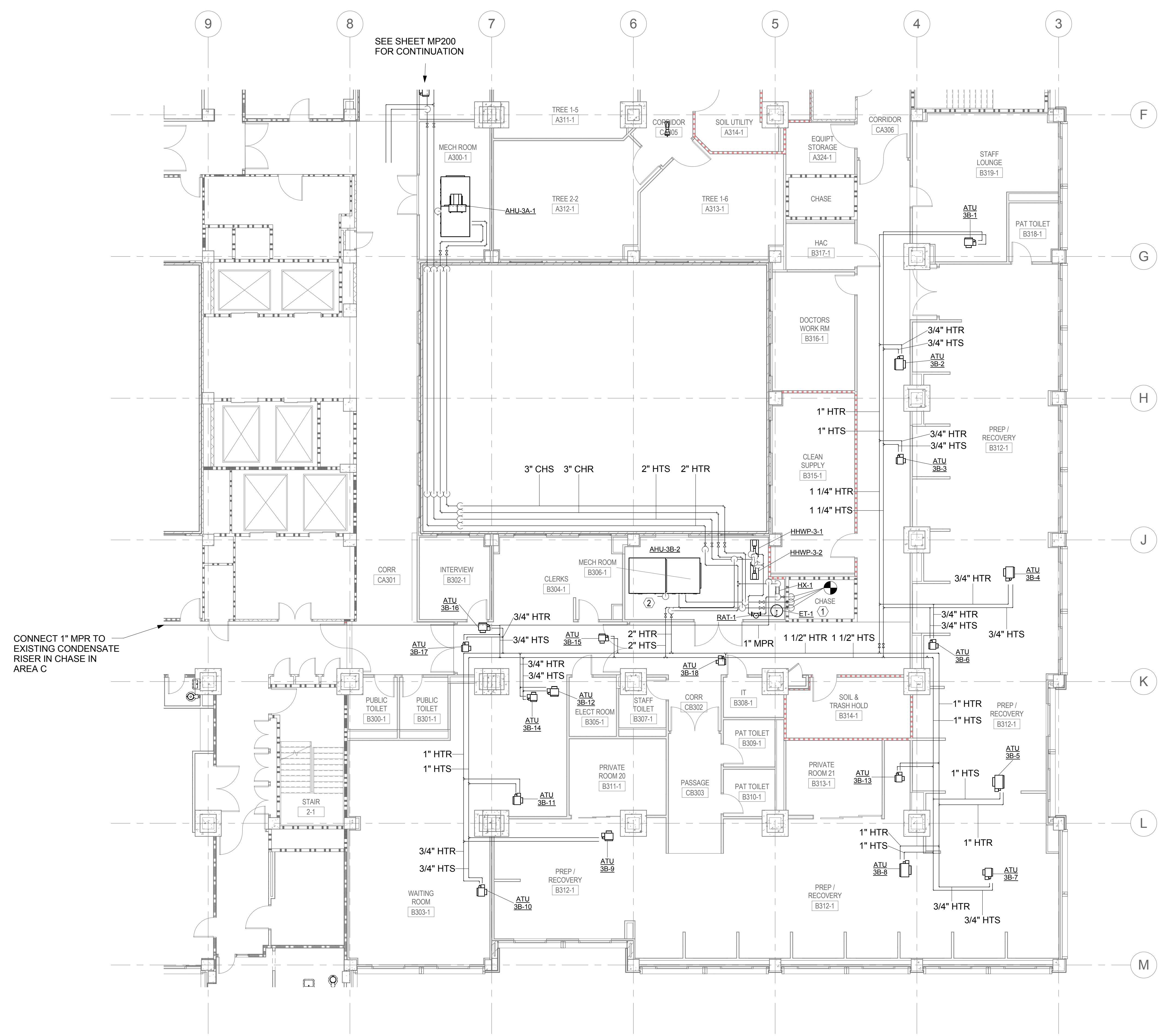
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SHEET NOTES

- A. ALL HTS AND HTR BRANCH PIPING TO BE 1/2" UNLESS NOTED OTHERWISE.
B. CONTRACTOR TO COORDINATE PIPE ELEVATIONS AND ROUTING WITH OTHER DISCIPLINES DURING INSTALLATION.

SHEET KEYNOTES

1. CONNECT NEW LPS, CHS, AND CHR TO EXISTING STEAM AND CHILLED WATER PIPING IN CHASE.
2. ALL HEATING HOT WATER PIPING, CHILLED WATER PIPING, AND STEAM PIPING TO BE INSTALLED WITH MECHANICAL ROOM EQUIPMENT IN PHASE 1.



1 3RD FLOOR - NEW WORK - PARTIAL PLAN - PHASE 2 & 3
1/8" = 1'-0"

FINAL DESIGN
APPROVED FOR CONSTRUCTION

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| CENTRAL STATION AIR HANDLING UNIT SCHEDULE | | | |
|---|-------------------------------|------------------|--------------------|
| Unit Data | Tags | AHU-3A-1 | AHU-3B-2 |
| | Manufacturer | Energy Labs | Energy Labs |
| | Model # | C4066-FCH-L | C4066-FCH-L |
| | Max Dimensions (H x W x L) | 92" x 53" x 110" | 120" x 73" x 130" |
| | Unit Weight (lbs) | 3,380 | 5,631 |
| Supply Fan (Premium Efficiency) | Location | Indoor | Indoor |
| | SA CFM | 6,840 | 13,230 |
| | OA CFM | 4,645 | 3,205 |
| | Qty | 1 | 2 |
| | Fan Type | Plenum Fan | Plenum Fan |
| | Drive | Direct | Direct |
| | Voltage | 460/3/60 | 460/3/60 |
| | Fan Size | 182 | 182 |
| | Class | 2 | 2 |
| | TSP | 5.7 | 5.0 |
| | ESP | 2.6 | 2.0 |
| | Fan RPM | 2736 | 2688 |
| | BHP ea. | 9.25 | 7.69 |
| | Motor HP ea. | 10 | 10 |
| | Nom. Motor RPM | 1800 | 1800 |
| Cooling Coil | CFM | 6,840 | 13,230 |
| | Rows | 8 | 8 |
| | FPI | 10 | 9 |
| | TMBH / SMBH | 445.9 / 256.8 | 497.7 / 374.0 |
| | EAT DB / WB °F | 88.9 / 73.4 | 79.5 / 65.2 |
| | LAT DB / WB °F | 52.9 / 52.8 | 51.8 / 51.6 |
| | APD | 1.3 | 1.21 |
| | Max FV | 476 | 492 |
| | EWI / LWT °F | 45.0 / 56.3 | 45.0 / 56.9 |
| | GPM | 79.0 | 83 |
| | Max. WPD | 15.8 | 15.15 |
| | Tube Thickness (in) | 0.025 | 0.025 |
| | Min Tube Velocity (fpm) | 4.61 | 4.04 |
| | Qty | 1 | 1 |
| | CFM | 6,840 | 13,230 |
| HW Preheat Coil | Rows | 1 | 1 |
| | FPI | 12 | 12 |
| | TMBH | 284.5 | 265.2 |
| | EAT / LAT DB °F | 34.9 / 70.9 | 52.3 / 71.0 |
| | APD | 0.16 | 0.16 |
| | Max. FV | 528 | 518 |
| | EWI / LWT °F | 180 / 151.3 | 180.0 / 116.5 |
| | GPM | 19 | 8 |
| | Max. WPD | 1.66 | 0.82 |
| | Qty | 1 | 1 |
| Pre-Filters | Type | Prepleat M13 | Prepleat M13 |
| | Efficiency | 85% - MERV 13 | 85% - MERV 13 |
| | APD | 0.246 | 0.243 |
| | FV | 428 | 424 |
| | Loading Direction | Side Loading | Upstream |
| | Size/Qty | 24x24(4) | 24x24(6), 12x12(3) |
| | Depth | 2" | 2" |
| Final-Filters | Type | Alpha 2000 | Alpha 2000 |
| | Efficiency | 99.97 | |
| | APD | 1.12 | 1.11 |
| | FV | 428 | 424 |
| | Loading Direction | Upstream | Upstream |
| | Size/Qty | 24x24(4) | 24x24(6), 12x12(3) |
| Unit Electrical | Depth | 12 | 12 |
| | FLA / MCA / MOP | 15.0 / 18.8 / 30 | 31 / 38.8 / 60 |
| Notes: 1. Energy Labs Custom AHU is basis of design 2. High efficiency direct drive plenum fans, shaft grounding, motor removal rails & copper lube lines to exterior 3. Entire unit will includes 2" double wall, foam insulated with thermal break construction including all doors 4. Entire unit (including base) will be constructed 5052 marine grade aluminum (0.04" inner wall and 0.05" outer wall) 5. All door hinges and screws are made of zinc 6. Supply air plenum fans include spring vibration isolation with seismic restraint 7. Stainless steel coil casing & double wall drain pans with 1" foam insulation 8. SA fans include VFD with bypass, shaft grounding, inlet screen and fan guard 9. Factory UV Lights at cooling coil with external mounted power supply, door safety switch & disconnect 10. Factory GFI at fan section and marine fluorescent lights in all sections (filter, coil and fan sections) 11. Dimensions are maximum dimension with no exceptions 12. AHU interior walls are wash-down construction with floor drains in each section 13. Unit will be AMCA, ETL, AHRI & IBC2006 certified | | | |

| ROOM AIR BALANCE SCHEDULE | | | | | | | | | | | | | |
|----------------------------|------------------|------------------------|---------------|----------------------|---------------|-----------------------|---------------|---------------------|------------------|----------------------|--------------------------|---------------------|--------------------------|
| ROOM NAME/NUMBER | Area (sq. ft) | Ceiling Height (ft) | Supply CFM | Plumbing Fixtures | Return CFM | Room Vol. (cu. ft) | Supply ACH | Exhaust Required | Total O/A CFM | Return Permitted? | Meets Min Supply ACH? | Room Air Balance | Air Balance Magnitude |
| A321-1 TREE 1-4 | 330 | 8.5 | 565 | | 0 | 2805.0 | 12.1 | 480 | 85 | NO | YES | (+) | 85 |
| A320-1 TREE 1-3 | 319 | 8.5 | 545 | | 0 | 2711.5 | 12.1 | 460 | 82 | NO | YES | (+) | 85 |
| A317-1 TREE 1-2 | 320 | 8.5 | 545 | | 0 | 2720.0 | 12.0 | 460 | 82 | NO | YES | (+) | 85 |
| A316-1 TREE 1-1 | 320 | 8.5 | 545 | | 0 | 2720.0 | 12.0 | 460 | 82 | NO | YES | (+) | 85 |
| A308-1 TREE 2-1 | 372 | 8.5 | 635 | | 0 | 3162.0 | 12.0 | 735 | 95 | NO | YES | (-) | -100 |
| A305-1 MEDS | 123 | 7 | 145 | | 105 | 861.0 | 10.1 | 0 | 36 | YES | YES | (+) | 40 |
| A306-1 CHARGE NURSE | 124 | 8 | 185 | | 185 | 992.0 | 11.2 | 0 | 28 | YES | YES | (0) | 0 |
| A314-1 SOIL UTILITY | 120 | 7 | 140 | | 0 | 840.0 | 10.0 | 185 | 28 | NO | YES | (-) | -45 |
| A315-1 STAFF TOILET | 62 | 7 | 50 | 1 | 0 | 434.0 | 6.9 | 70 | 8 | NO | YES | (-) | -20 |
| A-CA305-1 CORRIDOR | 148 | 8 | 80 | | 65 | 1184.0 | 4.1 | 0 | 39 | YES | YES | (+) | 15 |
| A-CA304-1A CORRIDOR | 520 | 8 | 280 | | 235 | 4160.0 | 4.0 | 0 | 139 | YES | YES | (+) | 45 |
| A-CA304-1B CORRIDOR | 515 | 8 | 280 | | 235 | 4120.0 | 4.1 | 0 | 137 | YES | YES | (+) | 45 |
| A322-1 CLOSET | 30 | 7 | 25 | | 20 | 210.0 | 7.1 | 0 | 7 | YES | YES | (+) | 5 |
| A323-1 ELECT CLOSET | 52 | 10.5 | 200 | | 200 | 546.0 | 22.0 | 0 | 30 | Cool-Y, Vent-N | YES | (0) | 0 |
| A324-1 EQUIPT STORAGE | 85 | 7 | 50 | | 40 | 585.0 | 5.0 | 0 | 20 | YES | YES | (+) | 10 |
| A318-1 NON-STERILE STORAGE | 105 | 7 | 50 | | 40 | 735.0 | 4.1 | 0 | 25 | YES | YES | (+) | 10 |
| A300-1 MECH ROOM | 242 | 10.5 | 130 | | 55 | 2541.0 | 3.1 | 0 | 20 | Cool-Y, Vent-N | YES | (++) | 75 |
| A303-1 STERILE STORAGE | 145 | 7 | 115 | | 90 | 1015.0 | 6.8 | 0 | 34 | YES | YES | (+) | 25 |
| A311-1 TREE 1-5 | 337 | 8.5 | 575 | | 0 | 2864.5 | 12.0 | 485 | 86 | NO | YES | (+) | 90 |
| A312-1 TREE 2-2 | 408 | 8.5 | 695 | | 0 | 3468.0 | 12.0 | 800 | 104 | NO | YES | (-) | -105 |
| A313-1 TREE 1-6 | 355 | 8.5 | 605 | | 0 | 3017.5 | 12.0 | 510 | 91 | NO | YES | (+) | 95 |
| A-CA304-2 CORRIDOR | 740 | 8 | 400 | | 335 | 5920.0 | 4.1 | 0 | 197 | YES | YES | (+) | 65 |
| TOTAL: AHU 3A-1 | | | 6840 | 1 | 1605 | | | 4645 | 1455 | | | | 590 |
| B319-1 LOUNGE | 422 | 7 | 465 | | 0 | 2854.0 | 9.4 | 535 | 98 | YES | YES | (-) | -70 |
| B316-1 DR WORKROOM | 231 | 7 | 950 | | 950 | 1617.0 | 35.3 | 0 | 143 | YES | YES | (0) | 0 |
| B317-1-1 HMC | 77 | 7 | 50 | 1 | 0 | 538.0 | 5.6 | 70 | 8 | NO | YES | (-) | -20 |
| B-A318-3B CORRIDOR | 303 | 8 | 280 | | 235 | 2424.0 | 6.9 | 0 | 81 | YES | YES | (+) | 45 |
| B315-1 CLEAN SUPPLY | 352 | 7 | 280 | | 235 | 2464.0 | 6.8 | 0 | 82 | YES | YES | (+) | 45 |
| B312-1A PREP RECOVERY | 741 | 8.5 | 1200 | | 1200 | 6298.5 | 11.4 | 0 | 300 | YES | YES | (0) | 0 |
| B312-1F RECOVERY VESTIBULE | 152 | 8.5 | 175 | | 175 | 1292.0 | 8.1 | 0 | 44 | YES | YES | (0) | 0 |
| B318-1 PAT TOILET | 59 | 7 | 100 | 1 | 0 | 413.0 | 14.5 | 135 | 15 | NO | YES | (-) | -35 |
| B312-1B PREP RECOVERY | 1430 | 8.5 | 1700 | | 1700 | 12155.0 | 8.4 | 0 | 425 | YES | YES | (0) | 0 |
| B-A318-A CORRIDOR | 696 | 8 | 375 | | 315 | 5588.0 | 4.0 | 0 | 186 | YES | YES | (+) | 60 |
| B312-1C PREP RECOVERY | 396 | 8.5 | 895 | | 895 | 3366.0 | 16.0 | 0 | 224 | YES | YES | (0) | 0 |
| B312-1D PREP RECOVERY | 1130 | 8.5 | 1900 | | 1900 | 9605.0 | 11.9 | 0 | 475 | YES | YES | (0) | 0 |
| B312-1E PREP RECOVERY | 396 | 8.5 | 710 | | 710 | 3366.0 | 12.7 | 0 | 178 | YES | YES | (0) | 0 |
| B303-1B WAITING | 484 | 8.5 | 825 | | 0 | 4114.0 | 12.0 | 950 | | YES | (-) | -125 | |
| B303-1A WAITING | 462 | 8.5 | 790 | | 0 | 3827.0 | 12.1 | 910 | | YES | (-) | -120 | |
| B305-1 ELECT CLOSET | 60 | 10.5 | 205 | | 205 | 630.0 | 19.5 | 0 | 31 | Cool-Y, Vent-N | YES | (0) | 0 |
| B307-1 STAFF TOILET | 59 | 7 | 50 | 1 | 0 | 413.0 | 7.3 | 70 | 8 | NO | YES | (-) | -20 |
| B309-1 PAT TOILET | 59 | 7 | 50 | 1 | 0 | 413.0 | 7.3 | 70 | 8 | NO | YES | (-) | -20 |
| B310-1 PAT TOILET | 59 | 7 | 50 | 1 | 0 | 413.0 | 7.3 | 70 | 8 | NO | YES | (-) | -20 |
| B314-1 SOIL AND TRASH | 165 | 7 | 195 | | 0 | 1155.0 | 10.1 | 255 | 39 | NO | YES | (-) | -60 |
| B313-1 PRIVATE ROOM | 162 | 8.5 | 190 | | 190 | 1377.0 | 8.3 | 0 | 48 | YES | YES | (0) | 0 |
| B311-1 PRIVATE ROOM | 177 | 8.5 | 200 | | 200 | 1504.5 | 8.0 | 0 | 50 | YES | YES | (0) | 0 |
| B306-1 MECH ROOM | 264 | 10.5 | 210 | | 210 | 2772.0 | 4.5 | 0 | 32 | Cool-Y, Vent-N | YES | (0) | 0 |
| B302-1 INTERVIEW | 146 | 8.5 | 230 | | 230 | 1241.0 | 11.1 | 0 | 35 | YES | YES | (0) | 0 |
| B302-1 CLERKS | 247 | 8.5 | 525 | | 525 | 2099.5 | 15.0 | 0 | 79 | YES | YES | (0) | 0 |
| B-A318-2A CORRIDOR | 216 | 8 | 120 | | 100 | 1728.0 | 4.2 | 0 | 58 | YES | YES | (+) | 20 |
| B-A318-2B CORRIDOR | 336 | 8 | 180 | | 150 | 2886.0 | 4.0 | 0 | 90 | YES | YES | (+) | 30 |
| B300-1 PUB TOILET | 59 | 7 | 50 | 1 | 0 | 413.0 | 7.3 | 70 | 8 | NO | YES | (-) | -20 |
| B301-1 PUB TOILET | 59 | 7 | 50 | 1 | 0 | 413.0 | 7.3 | 70 | 8 | NO | YES | (-) | -20 |
| B308-1 IT | 50 | 10.5 | 230 | | 230 | 525.0 | 26.3 | 0 | 35 | Cool-Y, Vent-N | YES | (0) | 0 |
| TOTAL: AHU 3B-2 | | | 13230 | | 10355 | | | 3205 | 2796 | | | | -330 |