1700 MECHANICAL SPECIFICATIONS

1701 GENERAL

A. CODES, REGULATIONS AND STANDARD INSTALLATION ARE TO COMPLY WITH THE LATEST EDITION OF THE STATE BUILDING CODE, NFPA 90A, AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES. IN THE CASE OF CONFLICT BETWEEN VARIOUS CODES, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
B. FEES AND PERMITS. PROVIDE ALL LICENSES, FEES, PERMITS, INSURANCE, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.
C. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, PERFORM ALL WORK AND TEST AND PAY ALL FEES NECESSARY TO MAKE THE HEATING, AIR CONDITIONING AND VENTING SYSTEM OPERABLE AND READY FOR USE BY THE OWNER.
D. GUARANTEE: ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. ALL COMPRESSORS SHALL HAVE A FIVE (5) YEAR GUARANTEE STARTING AFTER FINAL ACCEPTANCE OF WORK.
E. IT IS UNDERSTOOD AND AGREED THAT THESE PLANS AND SPECIFICATIONS SHALL BE FULFILLED IN THEIR TRUE SPIRIT AND INTENT SO THAT ANY MINOR MATERIALS OR DEVICES ESSENTIAL TO PROPER AND CONVENIENT OPERATION, REQUIRED OR IMPLIED, SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR WITHOUT EXTRA CHARGE, EVEN THOUGH NOT SPECIFICALLY CALLED FOR.
F. INSTALLATION SHALL COMPLY WITH OSHA STANDARDS.
G. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
H. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THIS OWN CLEAN UP AND REMOVAL OF SCRAP FROM THE JOB SITE. THE MECHANICAL CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA.
I. DIVISION 1 SHALL BECOME A PART OF THESE SPECIFICATIONS BY REFERENCE.
J. ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE STATE BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE, CONTACT SEISMIC CONTROL AND ISOLATION, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT.
K. ALL ROOF MOUNTED MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE STATE BUILDING CODE REQUIREMENTS FOR WIND DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE, CONTACT SEISMIC CONTROL AND ISOLATION, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT AS REQUIRED BY THE BUILDING CODE.
L. THE ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY.

1702 SCOPE

WORK SHALL INCLUDE BUT NOT BE LIMITED TO:
A. PROVIDE AND INSTALL SPLIT SYSTEM UNITS, DUCTS, DIFFUSERS, GRILLES AND WEATHER CAPS.
B. PROVIDE AND INSTALL ENERGY RECOVERY UNITS, VENT FANS, AND ASSOCIATED DUCTING.
C. PROVIDE AND INSTALL ALL CONTROLS AND DUCT DETECTORS.
D. PROVIDE ALL INCIDENTAL MATERIALS AND EQUIPMENT FOR A COMPLETE AND FUNCTIONING HVAC SYSTEM.

1703 MATERIALS

A. HEATING, VENTILATION AND AIR CONDITIONING DUCT SHALL BE:
1. ALL HEATING AND COOLING MAIN SUPPLY AND RETURN DUCT SHALL BE GALVANIZED SHEET METAL WITH FIBERGLASS WRAP WITH FOIL BACKING, UL LABELED FOR CLASS 1 AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS. DUCT INSULATION SHALL COMPLY WITH ALL STATE ENERGY CODE REQUIREMENTS AND HAVE A MINIMUM R-VALUE AS SHOWN BELOW:
1.1. SUPPLY AND RETURN DUCTS. . . . . R=8.0
INSULATION SHALL MEET ALL CODE REQUIREMENTS.
2. FLEX RUNOUTS SHALL BE FLEX DUCT BY ATCO OR EQUAL AND SHALL BE UL LABELED FOR CLASS 1 AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS. MINIMUM R-VALUE SHALL BE R=8.0
3. RIGID RUN OUTS SHALL BE GALVANIZED SHEET METAL WITH FIBERGLASS WRAP WITH FOIL BACKING WHICH MEET REQUIREMENTS OF ITEM 1.
4. PROVIDE SINGLE THICKNESS TURNING VANES IN MAIN SUPPLY AND RETURN DUCT AT TEES AND 90° ELLS.
5. FRESH AIR MAKE-UP SHALL BE CLASS 1 DUCT WITH INSULATION WHICH MEET REQUIREMENTS OF ITEM 1.
6. VENT DUCT:
6.1. VENT DUCT SHALL BE 26 GA. MINIMUM GALVANIZED SHEET METAL.
6.2. THE FIRST 3'-0" OF DUCT FROM THE EXTERIOR WALL SHALL BE INSULATED WITH INSULATION MEETING REQUIREMENTS OF ITEM 1 (MINIMUM R-VALUE SHALL BE 8.0).
6.3. VENTILATION DUCT FOR EXHAUST FAN MAY BE UNINSULATED EXCEPT AS REQUIRED BY ITEM 6.2
6.4. THE VENTILATION DUCTS FOR ENERGY RECOVERY UNITS SHALL BE INSULATED ON THE INCOMING EXHAUST AIR STREAM AND ON THE INCOMING AND DISCHARGE AIR STREAM ON THE FRESH AIR DUCTING. THE INSULATION SHALL MEET THE REQUIREMENTS OF ITEM 1.

B. THERMOSTAT CABLE SHALL BE UL APPROVED FOR THE APPLICATION.
C. CONDENSATE PIPE SHALL BE 1" PVC WITH 1/2" ARMAFLEX TYPE INSULATION FOR INTERIOR RUNS.
D. ALL RUNOUT SUPPLY DUCTS SHALL HAVE BALANCING DAMPERS.
E. REFRIGERATION TUBING SHALL BE SIZED AND INSULATED AS PER MANUFACTURER'S RECOMMENDATIONS AND STATE BUILDING CODE REQUIREMENTS.
F. ALL SUPPLY AND RETURN GRILLES SHALL HAVE FULLY INSULATED BACK UNLESS NOTED OTHERWISE.
G. ALL INTAKE OPENINGS SHALL BE PROTECTED WITH A CORROSION RESISTANT SCREEN WITH OPENINGS GREATER THAN ¼" AND NOT GREATER THAN 1".
H. ALL EXHAUST OPENINGS (EXCEPT DRYER EXHAUST) SHALL BE PROTECTED WITH A CORROSION RESISTANT SCREEN WITH OPENINGS NOT LESS THAN ¼" AND NOT GREATER THAN ½".

1704 EXECUTION

A. ALL HOLES SHALL BE DRILLED OR CUT, DO NOT BREAK HOLES.
B. THE MECHANICAL CONTRACTOR SHALL DO ALL CUTTING, PATCHING, AND PAINTING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED UNDER THIS CONTRACT, AND SHALL ESTABLISH ALL FINISHES WHEN CUTTING AND PATCHING OCCUR TO THEIR ORIGINAL CONDITION. QUALIFIED WORKERS SHALL DO ALL CUTTING AND PATCHING WORK (I.E. DRY WALL CUTTING AND PATCHING SHALL BE DONE BY QUALIFIED DRY WALL CRAFTSMEN.)
C. CONTRACTOR SHALL BALANCE THE AIR CONDITIONING SYSTEM AS SHOWN ON THE PLANS WITHIN 10% OF THE NUMBER SHOWN. CONTRACTOR SHALL SUBMIT A BALANCING REPORT SHOWING THE ACTUAL CFM READINGS OF ALL SUPPLY REGISTERS TO THE ARCHITECT AT THE COMPLETION OF THE PROJECT.
D. UNLESS NOTED OTHERWISE THE DUCT DIMENSIONS SHOWN REFER TO THE DUCTS INSIDE FREE AIR SPACE DIMENSION. ROUND OR RECTANGULAR DUCT MAY BE USED IN PLACE OF THE TYPE OF DUCT SHOWN AS LONG AS THE FOLLOWING REQUIREMENTS ARE MET.
1. THE REPLACEMENT DUCT SIZE SHALL HAVE A STATIC PRESSURE DROP AND AVERAGE DUCT VELOCITY EQUAL TO OR LESS THAN THE DUCT SIZE SHOWN ON THE DRAWINGS.
2. THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE NEW DUCT DESIGN, INCLUDING BUT NOT LIMITED TO, FIT, CLEARANCES AND AFFECTS ON OTHER TRADES.
E. CONTRACTOR SHALL SUPPLY ALL HANGERS AND SUPPORTS NECESSARY TO SUSPEND DUCT WORK AND EQUIPMENT AS PER GOOD INSTALLATION PRACTICE AND THE STATE MECHANICAL CODE.
F. ALL DUCT SHALL BE CONSTRUCTED, SUPPORTED AND REINFORCED PER SMACNA STANDARDS.
G. MECHANICAL CONTRACTOR SHALL PROVIDE ALL THERMOSTATS, CONTROL, RELAY, STARTERS ETC., FOR A COMPLETE CONTROL SYSTEM FOR THE HEAT PUMP UNITS.
H. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR PENETRATIONS AND PATCHING.
I. MECHANICAL CONTRACTOR SHALL PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE OF CONDENSATE IS NOT POSSIBLE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
J. INSTALLATION SHALL COMPLY WITH ALL STATE ENERGY CODE REQUIREMENTS.
K. ALL REFRIGERATION PIPING AND CONDENSATE PIPING SHALL BE PROPERLY SUPPORTED AS PER MANUFACTURERS RECOMMENDATIONS, STATE BUILDING CODE, AND GOOD PIPING PRACTICES. PROPER DRAINAGE OF CONDENSATE LINES SHALL BE MAINTAINED.
L. ALL MATERIALS AND EQUIPMENT SHALL BE PROPERLY INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS AND GOOD PRACTICE.
M. THERE WILL BE MINIMUM 10' CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL BUILDING EXHAUSTS AND PLUMBING VENTS.
N. HORIZONTAL AIR HANDLER INSTALLATIONS SHALL INCLUDE VIBRATION ISOLATION SUPPORTS. VERTICAL FLOOR MOUNTED AIR HANDLERS SHALL BE SUPPORTED ON CORK PADS.
O. AIR INTAKE AND EXHAUST WEATHER CAPS, GRILLES, AND LOUVERS SHALL BE SIZED TO PRODUCE A STATIC PRESSURE DROP OF 0.05" OR LESS AT DESIGN AIR FLOW. WEATHER CAPS SHALL BE ALUMINUM BY GREENHECK OR EQUAL.
P. DUCT SYSTEMS SHALL BE SEALED STRICTLY AS PER THE STATE ENERGY CODE.
Q. ALL DUCT WORK TRANSITIONS SHALL BE SUPPLIED AS REQUIRED FOR CONNECTION OF ALL DUCTED EQUIPMENT AND SYSTEM COMPONENTS.
R. ALL OUTSIDE AIR INTAKE DUCTS (ONE FOR EACH AIR HANDLER) SHALL HAVE BACKDRAFT DAMPERS BALANCED TO OPEN AND ALLOW IN OUTSIDE AIR AS INDICATED ON DRAWINGS. WHEN AIR HANDLER FAN IS RUNNING. THE USE OF ELECTRONICALLY DRIVEN DAMPERS TIED TO THE AIR HANDLER OPEN WHEN FAN IS ON, CLOSED WHEN FAN IS OFF, SHALL BE AN ACCEPTABLE ALTERNATE. ALL ELECTRICAL CONNECTIONS SHALL BE COORDINATED WITH ELECTRICIAN.
S. PROVIDE OPERATION AND MAINTENANCE MANUALS TO THE BUILDING OWNER.

1705 ELECTRICAL CONNECTIONS

ELECTRICAL CIRCUIT SIZES AND NUMBER ARE BASED ON THE MANUFACTURER OF THE EQUIPMENT SPECIFIED, AND IT SHALL BE THE RESPONSIBILITY OF THE HEATING AND AIR CONDITIONING CONTRACTOR TO CHANGE ANY AND ALL ELECTRICAL WORK IN ORDER TO FIT EQUIPMENT OTHER THAN THAT SPECIFIED. THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE OWNER TO ASSURE THAT ALL UNITS ARE PROPERLY CONNECTED AND SHALL CHECK THE WIRING PRIOR TO STARTING UNITS. TERMINATION OF ELECTRICAL POWER WILL BE AS FOLLOWS:
1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONNECT ALL POWER TO THE MECHANICAL EQUIPMENT.
2. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTROL AND THERMOSTAT SYSTEMS FOR THE HEATING, AIR CONDITIONING SYSTEMS.
3. MECHANICAL CONTRACTOR SHALL PROVIDE THE EMERGENCY SHUTDOWN CONTROLS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR IN DUCT DETECTOR INSTALLATION AND AIR HANDLING UNIT SHUTDOWN.
4. MECHANICAL CONTRACTOR SHALL PROVIDE ANY REQUIRED ELECTRICAL CONNECTIONS FOR CONDENSATE PUMPS WITHOUT ADDITIONAL COST TO THE OWNER.

1706 TESTS

A. ALL HEATING COOLING AND VENTILATION EQUIPMENT, UPON COMPLETION, SHALL BE TESTED FOR AT LEAST ONE (1) DAY AND SHALL BE SHOWN TO BE IN SATISFACTORY CONDITION ON BOTH HEATING AND COOLING.
B. CONTRACTOR SHALL SUPPLY ALL NECESSARY LABOR AND EQUIPMENT FOR THE TEST.

1707 SUBSTITUTION

ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS SPECIFIED. REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO FULLY IDENTIFY AND APPRAISE THE PRODUCT. APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS, EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA.

1708 VISIT TO SITE

ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

1709 SHOP DRAWINGS

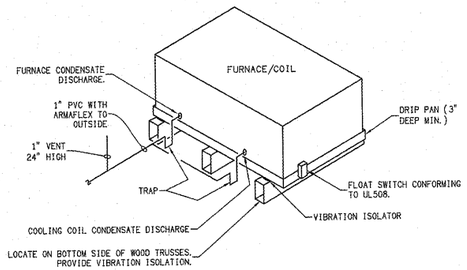
AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF SHOP DRAWINGS OF HEAT PUMPS, REGISTERS, FANS, ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. FOUR (4) COPIES OF THIS DATA WILL BE RETURNED BY THE ENGINEER WHO WILL INDICATE APPROVAL OR OTHERWISE.

1710 FIRE RATED WALLS, FLOORS & CEILINGS

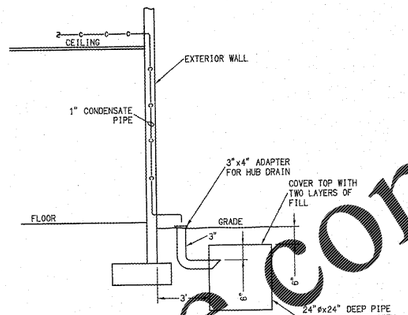
CONTRACTOR SHALL DETERMINE LOCATION OF ALL FIRE AND SMOKE RATED WALLS, FLOORS AND CEILINGS FROM ARCHITECTURAL DRAWINGS. PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE AS REQUIRED BY THE STATE BUILDING CODE, WITH APPROVED AND APPROPRIATELY RATED UL FIRESTOP SYSTEMS AT ALL PENETRATIONS. ALL DUCT PENETRATIONS SHALL BE PROPERLY PROTECTED WITH RADIATION OR FIRE DAMPERS WITH ALL INSTALLATION STRICTLY AS PER MANUFACTURERS RECOMMENDATIONS.

1711 PLACING IN SERVICE

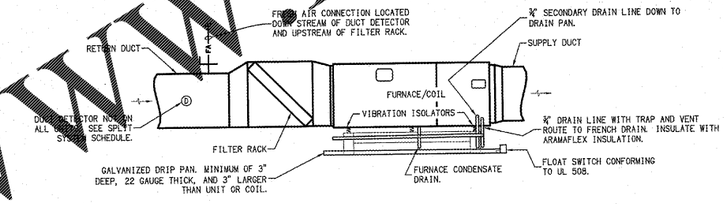
UPON COMPLETION OF THE ENTIRE SYSTEM, THE MECHANICAL CONTRACTOR SHALL INSTALL NEW AIR FILTERS AND LEAVE ENTIRE SYSTEM CLEAN AND READY FOR OPERATION. THE MECHANICAL CONTRACTOR SHALL DEMONSTRATE THE PROPER FUNCTION OF THE ENTIRE SYSTEM. THE MECHANICAL CONTRACTOR SHALL ACQUAINT THE OWNERS REPRESENTATIVE WITH THE PROPER OPERATION OF THE ENTIRE SYSTEM.



D M0.1 **AHU CONDENSATE PIPING**
SCALE: NONE



F M0.1 **FRENCH DRAIN DETAIL**
SCALE: NONE



E M0.1 **AHU FILTER DETAIL**
SCALE: NTS

HOOD SYSTEM REQUIREMENTS

1. EXHAUST DUCT FOR TYPE I KITCHEN HOODS SHALL BE 16 GA. CARBON STEEL OR 18 GA. STAINLESS STEEL. ALL JOINTS AND SEAMS SHALL BE LIQUID TIGHT CONTINUOUS EXTERNAL WELDED CONSTRUCTION.
2. TYPE II HOOD EXHAUST DUCT SHALL BE 16 GA. ALUMINUM OR 18 GA. STAINLESS STEEL WITH LIQUID TIGHT WELDED JOINTS GROUND SMOOTH IN ACCORDANCE WITH ASHRAE & SMACNA STANDARDS. EXTERNALLY INSULATE STEAMER/DISHWASHER EXHAUST DUCT TO PREVENT MOISTURE CONDENSATION INSIDE THE DUCT. SLOPE DUCTS FOR CONDENSATE TO DRAIN TOWARD HOOD.
3. GREASE EXHAUST DUCT SYSTEMS SERVING TYPE I HOODS SHALL HAVE A CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18 INCHES AND SHALL HAVE A CLEARANCE TO NONCOMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 3 INCHES. WHERE CLEARANCE CANNOT BE PROVIDED, THE GREASE EXHAUST DUCT SYSTEM SHALL BE CONTINUOUSLY COVERED ON ALL SIDES WITH FIRE RATED DUCT WRAP FOR ZERO-CLEARACE TO COMBUSTIBLES.
4. ALL DUCT DIMENSIONS ARE METAL TO METAL DIMENSIONS.
5. INSULATE FRESH AIR MAKE-UP DUCT FOR HOOD WITH EXTERNALLY WRAPPED INSULATION WITH VAPOR BARRIER (UNLESS EXPOSED DUCT IS CALLED FOR THEN USE INTERNALLY INSULATED DUCT). SEE SPECIFICATION.
6. MECHANICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS.
7. GREASE DUCT DESIGN IS BASED ON THE CFM'S INDICATED ON THE PLANS. VERIFY WITH THE EQUIPMENT PROVIDER THAT THE CFM'S LISTED ON THE PLANS MATCH THE EQUIPMENT THAT IS BEING PROVIDED.
8. ALL HORIZONTAL RUNS OF GREASE DUCT MUST BE SLOPED WITH A MINIMUM 2% SLOPE (.8.3% SLOPE FOR RUNS IN EXCESS OF 75 FEET) TOWARD THE HOOD OR APPROVED GREASE RESERVOIR.
9. CONNECTION BETWEEN GREASE DUCT AND HOOD AND GREASE DUCT AND FAN SHALL BE MADE IN A CODE APPROVED MANNER.
10. FOR GREASE DUCTS PROVIDE LIQUID TIGHT CLEANOUTS MEETING ALL MECHANICAL CODE REQUIREMENTS IN THE FOLLOWING LOCATIONS:
10.1. IN SECTIONS OF GREASE DUCT THAT ARE NOT ACCESSIBLE FROM THE HOOD OR DISCHARGE OPENINGS PROVIDE CLEANOUT OPENINGS SPACED NOT MORE THAN 20 FEET APART AND NOT MORE THAN 10 FEET IN CHANGES OF DIRECTION GREATER THAN 45°.
10.2. SHALL NOT BE LOCATED ON THE BOTTOM OF THE DUCT UNLESS NO OTHER LOCATION IS AVAILABLE. BOTTOM CLEANOUTS SHALL BE PROVIDED WITH INTERNAL DAMMING OF THE OPENING SUCH THAT THE GREASE WILL FLOW PAST THE OPENING WITHOUT POOLING.
10.3. AT GREASE RESERVOIRS.
11. FOR TYPE I HOODS, HOOD MANUFACTURER SHALL PROVIDE FIRE SUPPRESSION SYSTEM IN KITCHEN HOOD THAT WILL MEET STATE AND LOCAL CODES.
12. MECHANICAL CONTRACTOR SHALL OBTAIN EQUIPMENT APPROVAL BY LOCAL FIRE AUTHORITY PRIOR TO EQUIPMENT MANUFACTURE.

NURSING HOME GENERAL NOTES:

1. ALL FRESH AIR MAKE-UP ROOF PENETRATIONS SHALL PENETRATE ROOF AT SAME DISTANCE FROM EAVE. THE FRESH AIR INTAKE OPENING SHALL BE 10'-0" MINIMUM FROM ANY BUILDING VENTS & EXHAUST FANS. MECHANICAL CONTRACTOR SHALL COORDINATE THE PLUMBING CONTRACTOR TO LOCATE VENT PIPE LOCATIONS.
2. ALL VENT DISCHARGE ROOF PENETRATIONS SHALL PENETRATE ROOF AT SAME DISTANCE FROM EAVE AND SHALL MATCH THE FRESH AIR INTAKE WEATHER CAP HEIGHT FOR APPEARANCE. ALL VENT DISCHARGE OPENINGS SHALL BE A MINIMUM OF 10' HORIZONTALLY FROM OPENABLE DOORS AND WINDOWS.
3. MOUNT ALL THERMOSTATS AT 48" ABOVE FINISHED FLOOR (MAXIMUM).
4. ROOMS WITH SUPPLY REGISTERS & NO VENT OR RETURN OR VENT REGISTERS & NO SUPPLY SHALL HAVE DOORS UNDERCUT BY 3/4" OR MAX. AMOUNT ALLOWED BY DOOR MFG. WHICH MAINTAINS UL RATING.
5. OVERSIZED REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS FOR LONG RUNS OR AS SHOWN ON THE PLANS.
6. PROVIDE POWER CONNECTION FOR CONDENSATE PUMPS AS REQUIRED.
7. RADIATION FIRE DAMPERS & SMOKE DAMPERS SHALL BE U.L. APPROVED FOR INSTALLATION IN SHEETROCK CEILINGS & WALLS. DAMPERS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS FOLLOWING THEIR SCHEMATIC DRAWINGS. INSTALLATION INSTRUCTIONS SHALL BE GIVEN TO THE ENGINEER & STATE INSPECTOR AT THE FINAL INSPECTION.
8. PAINT ALL FRESH AIR INTAKE CAPS THE SAME COLOR AS THE ROOF. CONTRACTOR SHALL SUBMIT CUT SHEET OF INTAKE DAMPERS TO THE ENGINEER FOR APPROVAL. PROVIDE LOW PROFILE INTAKE CAPS.
9. MAXIMUM FLEX DUCT RUNS SHALL BE 10'0" MAXIMUM
10. CONTRACTOR SHALL RUN ALL DUCTWORK ON THE OUTSIDE OF THE CATWALK.
11. ALL DUCTWORK SHALL BE CLASS 1 MIN.
12. DISCHARGE CONDENSATE TO FRENCH DRAINS.
13. AHU SMOKE DETECTOR SYSTEM IS PROVIDED BY A FULL COVERAGE SMOKE DETECTION SYSTEM PER NFPA72E. SEE FIRE ALARM SHEET IN THE ELECTRICAL PACKAGE. ANY SYSTEM THAT SERVICES THE HALL AND OTHER ROOMS HAS A SMOKE DETECTOR AT 3'-0" OF THE RETURN. ALL AHU'S WILL SHUT DOWN UPON GENERAL ALARM.
14. CONTRACTOR SHALL INSTRUCT THE OWNER TO KEEP THE AHU FANS RUNNING AT ALL TIMES.
15. PLACE NURSE STATION & PATIENT AREA EMERGENCY SHUT-OFF SWITCHES @ NURSE'S STATION. VERIFY LOCATION.
16. RESIDENT ROOM HEATING AND AIR CONDITIONING UNITS SHALL OPERATE ON EMERGENCY POWER. COORDINATE WITH ELECTRICAL CONTRACTOR FOR STARTUP AND OPERATION ON EMERGENCY POWER.

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12825 WHITE BLUFF ROAD
SAVANNAH, GA 31419

Project Reference Numbers
Architect's Project No. 180017

Drawn By :

REVISIONS

DATES	
PHASE	ISSUED
PERMIT SET	05/22/19

MECHANICAL DETAILS & SPECIFICATIONS

SHEET NUMBER

M0.1