

EXHAUST HOOD DUCT NOTES ( BY G.C.)

1.

ALL FRYER EXHAUST COLLARS AND EXHAUST DUCTWORK ARE SIZED TO MAINTAIN 2100 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS SEALED LIQUID TIGHT.
2.

ALL HORIZONTAL RUNS OF GREASE DUCT, EXHAUST OR CONDENSATE SHALL SLOPE BACK TOWARD THE HOOD, GRILLE OR DRAIN AT A SLOPE OF 1" PER FOOT. PROVIDE A RESIDUE TRAP AT THE BASE OF EACH VERTICAL RISER.
3.

THE MECHANICAL CONTRACTOR IS TO PROVIDE CLEANOUTS, PER DETAILS, IN GREASE EXHAUST DUCTWORK AT A MINIMUM OF 10' INTERVALS, AT EACH CHANGE OF DIRECTION AND AT EACH RESIDUE TRAP.
4.

THE DISCHARGE OF THE GREASE EXHAUST FAN SHALL BE UPWARD AND A MINIMUM OF 40" ABOVE THE ROOF SURFACE AND A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
5.

ALL GREASE EXHAUST DUCTS SHALL HAVE RADIIUSED ELBOWS. EXHAUST DUCT PROTECTION:
6.

GREASE EXHAUST DUCT SHALL BE CARBON STEEL 16 GAUGE WELDED DUCTS PER NFPA-96 PROTECTED WITH THE FOLLOWING: 1" AIR SPACE FROM DUCT TO 22 GA SHEET METAL COVERED WITH 1" MINERAL WOOL AND WIRE MESH SECURED TO COMBUSTIBLES WITH 1" NON COMBUSTIBLE SPACERS TO REDUCE CLEARANCE TO COMBUSTIBLES TO 3" PER NFPA 96 A-13.2.

OPTIONAL DUCT PROTECTION: USE FIRE MASTER GREASE DUCT FIRE PROTECTION SYSTEM BY "THERMAL CERAMICS" WHICH OFFERS ZERO CLEARANCE TO COMBUSTIBLE & 2 HR. RATING.

EXHAUST HOOD NOTES

1.

THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- A.

STAINLESS STEEL HOODS AS SPECIFIED PRE PIPED FOR FIRE PROTECTION SYSTEM, AND CEILING CLOSURE STRIP.
- B.

EXHAUST FANS AND CURBS EXCEPT RESTROOM EXHAUST FAN AND CURB.
2.

THE MECHANICAL CONTRACTOR SHALL RECEIVE THE ABOVE EQUIPMENT, UNCRATE, BE RESPONSIBLE FOR REPORTING DAMAGE RECEIVED DURING SHIPMENT, AND BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE ABOVE EQUIPMENT ONCE RECEIVED ON THE JOB.
3.

EXHAUST HOODS PROVIDED WILL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:

- NSF # 1362 BEAR THE NSF SEAL OF APPROVAL

- U.L. CLASSIFICATION # 24N1

- MEET OR EXCEED NFPA # 96, 1998 EDITION

- 2006 IMC
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A SET OF SHOP DRAWINGS FROM THE HOOD MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE HOOD MANUFACTURER OF ANY LOCAL CODES WHICH WILL AFFECT THE HOOD MANUFACTURE OR INSTALLATION.
4.

THE HOOD MANUFACTURER WILL PROVIDE PRE-PIPED AUTOMATIC FIRE CONTROL SYSTEMS FOR THE FRYER HOOD INCLUDING FIRE CONTROL CABINETS - AND FURNISH A 2 POLE MICRO SWITCH FURNISHED FOR EQUIPMENT SHUT OFF TO BE HOOKED UP BY G.C. THE HOOD MANUFACTURER WILL BE RESPONSIBLE FOR FINAL INSTALLATION AND INSPECTIONS OF THE HOOD FIRE EXTINGUISHING SYSTEM.- COMPLETE EXTINGUISHING SYSTEM BY HOOD MANUFACTURER.
5.

THE PLUMBING CONTRACTOR SHALL INSTALL THE MECHANICAL GAS VALVE IN ACCORDANCE WITH THE PLUMBING DRAWINGS. THE VALVE WILL BE PROVIDED TO HIM BY THE HOOD SUPPLIER. VERIFY WITH LOCAL AUTHORITIES.
6.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING IN ACCORDANCE WITH THE "HOOD WIRING DIAGRAM" SHEET M3.

SECTION 15B - HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

GENERAL PROVISIONS

1.

SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING HEATING, VENTILATING, AIR CONDITIONING, AND REFRIGERATION SYSTEMS FOR THE BUILDING. WORK UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO:

A.

FURNISH AND INSTALL THE FOLLOWING: ROOFTOP UNITS AND CURBS DUCT INSULATION AND DUCT WORK FOR HVAC SYSTEMS DIFFUSERS, GRILLES, AND PLENUM BOXES CONTROL PANEL AND CONTROL WIRING

B.

INSTALL THE FOLLOWING: - EXHAUST FANS, HOODS, AND DUCTS FOR VENTILATION OF COOKING EQUIPMENT - ICE MACHINE AIR COOLED CONDENSER ON ROOF
2.

GENERAL REQUIREMENTS: ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.
- NOTE:

WHERE ENERGY CALCULATIONS ARE REQUIRED, THESE SHALL BE PREPARED BY THE G.C. AND SUBMITTED TO AFC'S AREA DEVELOPMENT DEPARTMENT FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
- A.

COORDINATION: COORDINATE WORK WITH OTHER TRADES. LOCATIONS SHOWN ARE APPROXIMATE. REFER TO THE ARCHITECTURAL PLANS FOR EXACT MEASUREMENTS IN THE PLACEMENT OF EQUIPMENT, FIXTURES, OUTLETS, ETC. WHERE THE LOCATIONS ARE NOT CLEAR, OBTAIN THE EXACT LOCATION FROM AFC'S ARCHITECTURE AND ENGINEERING DEPARTMENT AND FIELD VERIFY. THE PLANS DO NOT GIVE EXACT DETAILS AS TO ELEVATIONS AND LOCATIONS OF VARIOUS PIPES, FITTINGS, DUCTS, CONDUIT, ETC., AND DO NOT SHOW ALL OFFSETS AND OTHER INSTALLATION DETAILS WHICH MAY BE REQUIRED.

MATERIALS AND PERFORMANCE

1.

MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY AFC'S ARCHITECTURE AND ENGINEERING DEPARTMENT. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPPLICATE FIVE ( 5) DAYS BEFORE THE CONTRACT IS TO BE LET.
2.

NATIONAL ACCOUNTS: ROOFTOP HVAC EQUIPMENT, TOILET EXHAUST FANS, HVAC DUCT SYSTEMS, AND HVAC DIFFUSERS, GRILLS, AND PLENUM BOXES ARE AVAILABLE FROM NATIONAL ACCOUNTS INDICATED ON THE DRAWING COVER SHEET. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH PLANS AND MANUFACTURERS' INSTRUCTIONS. NATIONAL ACCOUNTS REFER TO DIRECTORY
3.

ROUTING OF DUCT SYSTEMS: COORDINATE ROUTING OF DUCT SYSTEMS WITH OTHERS. LINE UP WORK TRUE TO ADJACENT SPACES AND IN A WORKMANLIKE MANNER, AND USE STANDARD RADIUS 90 ELBOWS. WHERE REQUIRED, DUCTWORK IS TO BE STURDILY SUPPORTED AND SEPARATED IN ACCORDANCE WITH ASHRAE & SMACNA STANDARDS.
4.

DUCTWORK FOR HVAC SYSTEM:

A.

GENERAL NOTES:

(1)

VOLUME DAMPERS SHALL BE INSTALLED AT BRANCH RUNOUTS.

(2)

DUCT DIMENSIONS INDICATED ARE INSIDE DIMENSIONS.

(3)

DUCT WORK SHALL BE BUILT IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.

(4)

USE 90 DEG. TURNING VANES IN ALL ELBOWS WHERE INDICATED ON THE DRAWINGS. VANES TO BE PROPERLY SPACED IN ACCORDANCE WITH ASHRAE AND SMACNA.

(5)

DUCT BOARD IS NOT ALLOWED.

B.

METAL DUCT WORK:

(1)

DUCT WORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE STEEL SHEETS.

(2)

THE GAUGES OF METAL TO BE USED AND THE CONSTRUCTION AND BRACING OF JOINTS SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.

(3)

METAL DUCT SHALL BE SUPPORTED FROM BUILDING STRUCTURE ON STRIP HANGERS NOT OVER 8'-0" APART.

C.

EXTERNAL DUCT WRAP:

(1)

INSULATE EXTERIOR OF ALL METAL MAIN SUPPLY AND RETURN DUCTS WITH 2" THICK FIBERGLASS, ¾ LB. DENSITY, BLANKET INSULATION LAPPED ON 6" CENTERS, AND LABELED.

(2)

INSULATION SHALL HAVE A FLAME SPREAD OF TWENTY FIVE ( 25) OR LESS AND A SMOKE DEVELOPED RATING OF FIFTY ( 50) OR LESS.

(3)

INSULATION SHALL BE OWENS-CORNING FRK25 OR EQUAL.

(4)

INSULATION LAPPED ON 6" CENTERS, AND LIGHTLY LAPPED WITH 2" WIDE VAPOR BARRIER PRESSURE-SENSITIVE TAPE.

(5)

DUCT WRAP SHALL BE INSTALLED IN A NEAT AND COMPETENT MANNER WITH ALL EDGES COVERED WITH APPROVED METALLIC DUCT TAPE TO VAPOR-PROOF THE ENTIRE DUCT.

D.

FLEX CONNECTORS/FLEX DUCT:

(1)

FLEX CONNECTORS SHALL BE CERTAFLEX PUNCHLINE 25 WITH A R-6 RATING AND 1 1/2" THICK INSULATION.

(2)

CERTAFLEX PUNCHLINE 25 MEETS OR EXCEEDS IMC NFPA 90A-90B, SBCCI ( 8297) , AND UL 181 CLASS 1.

(3)

THE ENDS OF FLEX CONNECTORS SHALL BE TRIMMED SQUARELY PRIOR TO INSTALLATION.

(4)

COLLARS AND SLEEVES SHALL BE INSERTED INTO FLEXIBLE DUCT A MINIMUM OF 1" BEFORE FASTENING.

(5)

FLEXIBLE CONNECTORS SHALL BE SECURED TO THE SLEEVE OR COLLAR USING A DRAW BAND. IF THE DUCT COLLAR EXCEEDS 12" DIAMETER THE DRAW BAND MUST BE POSITIONED BEHIND A BEAD ON THE METAL COLLAR.

(6)

INSULATION AND VAPOR BARRIERS PRESENT ON ALL FLEX CONNECTORS SHALL BE FITTED OVER THE CORE CONNECTION AND SHALL BE SUPPLEMENTALLY SECURED WITH A DRAW BAND AND TAPED.

5.

TEMPERATURE SETTINGS: AT CONCLUSION OF PROJECT, SET POINTS SHALL BE APPROXIMATELY COOLING 78 DEGREES F/ HEATING 68 DEGREES F, AND INSTRUCT OWNER HOW TO RESET.

6.

ROOF CURBS: CURBS TO BE FURNISHED BY ASSOCIATED EQUIPMENT MANUFACTURER AND INSTALLED IN ACCORDANCE WITH DETAILS ON SHEET M2 AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH ROOF CONTRACTOR. RTU'S SHALL BE INSTALLED SUCH THAT ROOF DECK IS COMPLETE AND CONTINUOUS BENEATH UNITS, AND SHALL BE CUT ONLY FOR UNIT SUPPLY AND RETURN OPENINGS. SPACE BETWEEN BOTTOM OF RTU'S AND ROOF DECK SHALL BE FILLED WITH ACOUSTICAL INSULATION.

7.

TESTING AND ADJUSTING OF HVAC SYSTEM: UPON COMPLETION OF THE INSTALLATION, THE PROJECT SHALL BE TESTED AND ADJUSTED AS FOLLOWS:

A.

ADJUST FAN DRIVES TO ACHIEVE REQUIRED AND RATED CFM AND SPECIFIED RPM.

B.

ADJUST TEMPERATURE AND FAN CONTROL SEQUENCE.

C.

ADJUST THE ENTIRE INSTALLATION AS TO MINIMIZE NOISE AND VIBRATION FROM FANS, COMPRESSORS, STARTERS, AND RELAYS.

D.

ELIMINATE ANY DUCT PULSATION BY USE OF STIFFENERS OR ADDITIONAL SUPPORTS AS REQUIRED.

E.

CORRECT ANY EQUIPMENT OR COMPONENT WHICH IS GENERATING OBJECTIONABLE NOISE IN THE OPINION OF THE OWNER OR BY LOCAL AUTHORITIES.

F.

BALANCE EXHAUST AND OUTSIDE AIR TO QUANTITIES INDICATED ON THE PLANS. REFER TO BUILDING AIR BALANCE SCHEDULE.

G.

PROVIDE OWNER TWO (2 COPIES OF A WRITTEN AIR BALANCE REPORT INDICATING ALL FINAL EXHAUST, SUPPLY, AND OUTSIDE AIR FLOWS.

( CONTRACTOR SHALL PROVIDE ALL TOOLS AND TEST EQUIPMENT NECESSARY FOR BALANCING ALL HVAC AND EXHAUST AIR SYSTEMS. A "DIGITAL" ANEMOMETER MODEL DA 4000 WITH A 275 PROBE IS RECOMMENDED FOR MEASURING HOOD EXHAUST.)

8.

REFRIGERANT PIPING- PIPING TO BE HERMETICALLY SEALED AND PRE-CHARGED TUBING WITH O-RINGS SEALS AS PROVIDED BY THE REFRIGERANT EQUIPMENT MANUFACTURER WITH ADEQUATE FOAMED NEOPRENE INSULATION. CHARGE AND TEST SYSTEM FOR LEAKS. ENSURE AGAINST LEAKS AND PROPER EVACUATION PRIOR TO CHARGING. DO NOT EXCEED MANUFACTURER'S RECOMMENDED CHARGE SCHEDULE. SLEEVES THROUGH WALL OF FREEZER/COOLER SHOULD BE RUBBER OR NEOPRENE.

9.

CONTROLS: FURNISH AND INSTALL AS INDICATED ON DRAWINGS. FURNISH AND INSTALL ALL CONTROL WIRING AND CABLES FROM HVAC UNITS, TEMPERATURE SENSORS, PHOTOCCELL, AND CONACTOR PANEL AS REQUIRED. ROUTE CONTROL WIRING IN RACEWAY IN EQUIPMENT IF PROVIDED.

10.

COOKING EXHAUST FANS AND DUCTWORK: INSTALL ALL COOKING EXHAUST FANS IN ACCORDANCE WITH THE PLANS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. COOKING EXHAUST FANS ARE SUPPLIED BY OWNER. VENTILATOR EXHAUST DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 96.

11.

CLEANUP: AFTER COMPLETION OF THE WORK BEFORE FINAL INSPECTION CLEAN HVAC EQUIPMENT.

12.

FILTERS: PROVIDE CLEAN SET OF FILTERS FOR EACH HVAC UNIT WHEN TURNED OVER TO THE OWNER.

13.

HVAC OPERATOR'S MANUAL AND DIAGRAMS:

A.

PROJECTS PARTICIPATING IN THE NATIONAL ACCOUNTS PROGRAM SHALL FOLLOW THE PROCEDURE OUTLINED IN THE NATIONAL ACCOUNT.

B.

PROJECTS NOT PARTICIPATING IN THE NATIONAL ACCOUNT SHALL FOLLOW THE FOLLOWING PROCEDURE:

PREPARE IN DUPLICATE A MANUAL DESCRIBING THE PROPER MAINTENANCE AND OPERATION OF THE SYSTEM. THIS MANUAL SHALL NOT CONSIST OF STANDARD FACTORY-PRINTED INSTRUCTIONS, ALTHOUGH THESE MAY BE INCLUDED, BUT SHALL BE PREPARED TO DESCRIBE THIS PARTICULAR PROJECT.

THE MANUALS SHALL BE BOUND, INDEXED, DATED, AND SIGNED BY THE GENERAL CONTRACTOR. ONE ( 1) COPY SHALL BE SENT TO AFC'S ARCHITECTURE AND ENGINEERING DEPARTMENT AND THE OTHER TO THE OWNER.

QUALIFIED REPRESENTATIVES OF THE AIR CONDITIONING CONTRACTOR SHALL MEET WITH THE DESIGNATED REPRESENTATIVE OF THE OWNER. THE OWNERS REPRESENTATIVE SHALL BE INSTRUCTED IN THE PROPER OPERATION AND MAINTENANCE OF THE HVAC AND CONTROL SYSTEM.

14.

GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF COMPLETION. IN ADDITION, ALL REFRIGERATION COMPRESSORS SHALL BEAR A NON-PRORATED 5-YEAR FACTORY WARRANTY, AND ALL EXTENDED WARRANTIES.

15.

SERVICE ACCESS: PROVIDE SERVICE ACCESS AS REQUIRED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF SUCH ACCESS IS NOT AVAILABLE, NOTIFY OWNER AND ATTEMPT TO SEE IF NECESSARY CHANGES CAN BE WORKED OUT WITH OTHER TRADES. IF NOT, DO NOT INSTALL EQUIPMENT WHICH DOES NOT MEET MANUFACTURER'S REQUIREMENTS FOR ACCESSIBILITY. IN NO CASE BID, SUBMIT, OR INSTALL EQUIPMENT IN SITUATIONS THAT DO NOT MEET THE MANUFACTURER'S WARRANTY REQUIREMENTS.

16.

ENVIRONMENTAL CORROSION PROTECTION. CONDENSER, COOLING/HEATING COILS:

A.

REQUIRED FACTORY DIPPED COATING WITHIN ONE MILE OF ANY SALT WATER BODY. FACTORY PRE-COAT WITHIN ONE TO FIVE MILES OF ANY SALT WATER BODY.

GENERAL NOTES

1.

MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLIES, JOINTS, VENTS, ETC.

2.

ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. PROVIDE AMPLE CURBS OR PIPE SEALS FOR ELECTRICAL CONDUITS WHICH SUPPLY MECHANICAL EQUIPMENT.

3.

ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT. REFER TO ROOF PLAN.

4.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT LINES, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.

5.

CONDENSATE DRAINAGE FROM ROOF TOP HVAC UNITS SHALL BE TRAPPED, REFER TO ROOF PLAN

6.

PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MECHANERY.

7.

ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

8.

MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.

9.

THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.

10.

THIS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.

11.

THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED ITEMS. MOUNT 42" AFF.

12.

THE G.C. SHALL PERFORM AND BE RESPONSIBLE FOR ALL REFRIGERATION WORK REQUIRED FOR THE WALK-IN COOLER, WALK-IN FREEZER, G.C. SHALL ALSO BE RESPONSIBLE FOR START UP.

13.

THE GENERAL CONTRACTOR SHALL PERFORM AND BE RESPONSIBLE FOR ALL REFRIGERATION WORK REQUIRED FOR THE ICE MACHINES. ALL HIS WORK SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTACT THE EQUIPMENT SUPPLIERS TO OBTAIN ALL NECESSARY INFORMATION TO PERFORM THE REFRIGERATION WORK. G.C. SHALL ALSO BE RESPONSIBLE FOR ARRANGING FACTORY AUTHORIZED START-UP AND ADJUSTMENT ON THE ICE MACHINES.

14.

MECHANICAL CONTRACTOR TO INSULATE BACKSIDE OF ALL DIFFUSERS.

15.

TRANSITION ALL DUCTS AS REQUIRED TO ATTACH TO EQUIPMENT.

16.

OFFSET RETURN AIR DUCTS FOR ROOF TOP AC UNITS TO AVOID FRAMING AS REQUIRED.

17.

ALL DAMAGED COIL FINS SHALL BE COMBED STRAIGHT.

HVAC CONTROL NOTES

THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING DIAGRAMS FOR THE HVAC EQUIPMENT. 24 VOLT WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL 24 VOLT TRANSFORMERS AS REQUIRED.

ROOFTOP AIR CONDITIONING UNITS

THE AIR CONDITIONING UNIT FANS, HEATING AND COOLING SHALL BE CONTROLLED FROM 24 VOLT ROOM THERMOSTATS LOCATED APPROXIMATELY AS SHOWN ON THE PLANS. THE THERMOSTATS SHALL BE MOUNTED BY THIS CONTRACTOR 42" A.F.F.

FANS

EF-1 AND EF-2, SHALL BE CONTROLLED BY A SWITCH LOCATED ON THE HOOD SUPPLIED BY THAT FAN.

EF-3 SHALL BE CONTROLLED BY A SWITCH LOCATED IN OFFICE REFER TO ELECTRICAL DRAWINGS

HVAC UNITS SHALL BE INTERLOCKED WITH EXHAUST HOOD FANS EF-1 AND EF-2.

SMOKE DETECTORS

PROVIDE EACH AIR CONDITIONING UNIT WITH A DUCT MOUNTED SMOKE DETECTOR IN THE SUPPLY AIR DUCT SYSTEM CAPABLE OF SHUTTING DOWN ITS RESPECTIVE AIR CONDITIONING UNIT UPON ACTIVATION. THE SMOKE DETECTOR SHALL CONSIST OF A SIMPLEX DUCT DETECTOR WITH PHOTOELECTRIC DETECTOR, AND SAMPLING TUBE. ALL LINE VOLTAGE WIRING AND CONDUIT SHALL BE BY THE ELECTRICAL CONTRACTOR AND ALL OTHER WORK SHALL BE BY THE MECHANICAL CONTRACTOR.

HVAC SYMBOL LEGEND

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BTU	BRITISH THERMAL UNIT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
FD	FLOOR DRAIN
HP	HORSEPOWER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
OA	OUTSIDE AIR
AC	PACKAGE AIR CONDITIONING UNIT
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
<div><div>UP</div><div>DN</div><div>THRU</div></div>	SUPPLY AIR ( S ) DUCTWORK
<div><div>UP</div><div>DN</div><div>THRU</div></div>	RETURN AIR ( RA ) DUCTWORK
<div><div>UP</div><div>DN</div><div>THRU</div></div>	EXHAUST AIR ( EA ) DUCTWORK
WB	WET-BULB
<div><div>1</div><div>S</div></div>	WALL MOUNTED THERMOSTAT FOR UNIT INDICATED
<div><div>FL</div></div>	REMOTE DUCT TEMPERATURE SENSOR
<div><div>90°</div><div>FL</div></div>	FUSIBLE LINK
<div><div>90°</div><div>FL</div></div>	DUCT SECTION, POSITIVE PRESSURE, FIRST FIGURE IS ARROW SIDE
<div><div>90°</div><div>FL</div></div>	DUCT SECTION, EXHAUST
<div><div>90°</div><div>FL</div></div>	DUCT SECTION, NEGATIVE PRESSURE, RETURN
<div><div>1</div><div>R</div><div>1</div></div>	CHANGE OF ELEVATION RISE ( R ) DROP ( D )
<div><div>1</div><div>R</div><div>1</div></div>	FLEXIBLE CONNECTION
<div><div>1</div><div>R</div><div>1</div></div>	TRANSITION
<div><div>1</div><div>R</div><div>1</div></div>	TURNING VANE
<div><div>1</div><div>R</div><div>1</div></div>	DUCT MOUNTED SMOKE DETECTOR
<div><div>1</div><div>R</div><div>1</div></div>	VOLUME DAMPER, SINGLE LEAF, MANUAL
<div><div>1</div><div>R</div><div>1</div></div>	VOLUME DAMPER, OPPOSED BLADE, MANUAL
<div><div>1</div><div>R</div><div>1</div></div>	MANUAL SPLITTER
<div><div>1</div><div>R</div><div>1</div></div>	STANDARD BRANCH, SUPPLY OR RETURN, NO SPLITTER
<div><div>1</div><div>R</div><div>1</div></div>	STANDARD BRANCH, ADJUSTABLE EXTRACTOR
<div><div>A</div><div>UC</div></div>	CEILING DIFFUSER
<div><div>R</div><div>UC</div></div>	CEILING RETURN
<div><div>Y</div><div>UC</div></div>	CEILING EXHAUST
<div><div>UC</div><div>125</div><div>CFM</div></div>	UNDERCUT DOOR, CFM AND AIR FLOW AS INDICATED
<div><div>12x12</div><div>UC</div></div>	RADIUS ELBOW - INSIDE RADIUS MINIMUM ONE HALF DUCT WIDTH
<div><div>12x12</div><div>UC</div></div>	SQUARE TO ROUND TRANSITION
<div><div>12x12</div><div>UC</div></div>	DUCT WIDTH
<div><div>12x12</div><div>UC</div></div>	DUCT HEIGHT
<div><div>12x12</div><div>UC</div></div>	DUCT DIMENSION KEY

NOTE:  
MECHANICAL CONTRACTOR TO VERIFY TRUSS CLEARANCE'S PRIOR TO COMMENCEMENT OF WORK.

APPROVED HVAC NATIONAL ACCOUNT  
APPROVED VENDORS:  
CARRIER  
TRANE  
LENNOX

400 PERIMETER CENTER TERRACE  
SUITE 1000  
ATLANTA, GA 30346  
404-584400

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RELEASED FOR CONSTRUCTION

ISSUES/REVISIONS	
DATE	DESCRIPTION
10/30/17	CHECK SET

POPEYES  
HIGHWAY 441  
CORNELIA , GA 30531  
LOUISIANA KITCHEN LK-PLUS DESIGN STANDARDS  
60 SEATS / DUAL-LINE PRODUCTION  
JOB:17067

REVISIONS:

DATE: 9/23/13

MO

CHECKED: TM KR