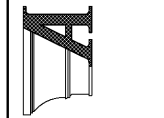


Architrave GROUP PC
127 North Street
Rt. 1, Suite 107
PO Box 212-0007
Ft. Lauderdale, FL 33301
Phone (754) 212-0007
Fax (754) 212-0007
Joe C. Sant'Onofrio, P.E.
PA 14055289
VA 018522
MD 10897
NC 52865
SC 100815



POPEYES
1702 RALEIGH ROAD PKY NW
WILSON, NORTH CAROLINA
LOUISIANA KITCHEN PLK DESIGN STANDARDS
88 SEATS / DUAL-LINE PRODUCTION PLK1711-DL



SHULTZ ENGINEERING GROUP
212 N. McDowell St, Suite 204
Charlotte, NC 28204
(P) 704.334.7363 (F) 704.347.0093
www.shultzeg.com | SEG - 20-078
NC FIRM LICENSE NUMBER: C-0898

CONTRACTORS NOTES

- HVAC CONTRACTOR**
- THE HVAC CONTRACTOR SHALL INSTALL THE TYPE 1 FRYER HOODS LEVEL & AT THE PROPER LOCATION, GREASE RISERS, ALL HVAC ROOF CURBS, RTUS, ALL HVAC DUCTWORK, GRILLES, HVAC CONTROLS AS NOTED, INCLUDING SMOKE DETECTORS. REFER TO THE HOOD SHEETS FOR PROPER INFORMATION. THE HVAC CONTRACTOR SHALL INSTALL GREASE RATED EXHAUST DUCT FROM THE HOOD COLLAR TO THE BASE OF THE EXHAUST FAN ON THE ROOF PER NFPA98 AND LOCAL CODES. FLARE GREASE EXHAUST RISER AT THE TOP TO THE OPENING OF THE VENTURE OF FAN. THE HVAC CONTRACTOR SHALL VERIFY LOCATIONS FOR EF-1, EF-2, EF-3, AND THE HOODS ON SITE WITH DIRECT COORDINATION WITH THE G.C. THE G.C. SHALL SIGN OFF ON THE LOCATION OF FRYER HOOD, SO THAT RISERS CAN BE FIT PROPERLY. TRUSS ENG. GROUP ALLOW SPACING FOR GREASE RISER TO PASS THRU CENTER OF TRUSS BAY AT 2 LOCATIONS. G.C. SHALL COORDINATE STRUCTURAL FRAMING TO ACCOMMODATE PLUM RISERS. G.C. SHALL PROVIDE PERIMETER FRAMING & PENETRATIONS AT ALL ROOF CURBS.
 - SEE NCA PACKAGE SCHEDULE NOTES FURNISHED ITEMS FOR HVAC INSTALLATION. ALL NON-FURNISHED ITEMS NECESSARY TO COMPLETE THE DESIGN INTENT OF THESE DOCUMENTS SHALL BE BY THE HVAC CONTRACTOR.
 - ALL NCA PROVIDED ROOF CURBS SHALL BE FABRICATED FROM 18 GA. G-90 MTC WITH FULLY WELDED SEAMS, INSULATED EXTERNALLY AND INTERNALLY INSULATED. FACTORY CURB CONNECTION SHALL NOT BE ACCEPTED.
 - SHIMS SHALL BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH ON BUILT UP ROOFS ONLY. OTHER ROOF CONSTRUCTIONS SHALL BE EVALUATED FOR BUILT-IN PITCH CURBS.
 - ALL FLEX DUCT SHALL BE U.L. LISTED, R-8 BENEATH THERMAL BLOC ENVELOPE & R-8 WITH CEILING INSULATION IS USED. FLEX SHALL BE FOIL-BACKED, CLASS 1 AIR DUCT WITH FIRE AND SMOKE RATING [25]-[50]. FLEX DUCT SHALL BEAR A RECTANGULAR OR SQUARE HOLE FOR LIMITED LENGTH OF RUN OUT OR AS PER LOCAL CODE.
 - ALL METAL DUCT AND AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-4.2 X .75 DENSITY FOIL-BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]-[50].
 - ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.
 - ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE). INTERNALLY LINED DUCTWORK IS NOT ALLOWED.
 - UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS SHALL HAVE A MANUAL VOLUME CONTROL DAMPER. (SEE DAMPER SYMBOLS EXPRESSED ON PLAN).
 - THE HVAC CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.
 - GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS.
 - UPON COMPLETION OF PROJECT, THE HVAC CONTRACTOR IS TO PROVIDE A CERTIFIED TEST AND BALANCE, AND A WRITTEN REPORT TO NCA CONSULTANT. ALL CAPACITIES MUST BE SET TO WITHIN ±10% OF AMOUNTS INDICATED ON THE FLOOR PLAN AND SCHEDULES.
 - THE HVAC CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, RTUS, AND SMOKE DETECTORS.

- GENERAL CONTRACTOR**
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. ALL MATERIAL MUST BE STORED INSIDE THE BUILDING. FRYER HOOD MUST BE STORED IN THE KITCHEN NEAR PROPOSED LOCATION AWAY FROM THE RISK OF DAMAGE.
 - ACCURATE MEASUREMENTS SHALL BE USED WHEN LOCATING GREASE RATED EXHAUST FAN ROOF PENETRATIONS. G.C. SHALL CONFIRM & SIGN - OFF TO ELEVATE ANY FUTURE DEVIATIONS OF FINAL HOOD LOCATION. THE G.C. SHALL COORDINATE ANY EFFORT WITH THE STRUCTURAL ENG. GROUP TO ARRANGE TRUSS SPACING TO ALLOW FOR PASSAGE OF GREASE RISER IN THE MIDDLE OF THE BAY BETWEEN TRUSSES.
 - ALL ROOF, CEILING, WALL, AND STRUCTURAL FRAMING REQUIRED FOR UNIT, FAN, DUCT, DIFFUSER, AND ALL OTHER HVAC WORK SHALL BE BY THE G.C. COORDINATE ON SITE WITH HVAC CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER FBC AND LOCAL CODES. ROOF FRAMING SIZES ARE BASED OFF OF THE FAN & ROOF TOP UNIT EQUIPMENT SCHEDULES. IF OTHER EQUIPMENT IS USED, VERIFY ROOF FRAMING REQUIREMENTS WITH SCHEDULES. COORDINATE ON SITE WITH HVAC CONTRACTOR. ROOFING MATERIAL SHALL NOT COVER THE TOP OF ANY ROOF CURB.

- ELECTRICAL CONTRACTOR**
- THE ELECTRICAL CONTRACTOR SHALL ROUTE HIGH & LOW VOLTAGE WIRING CONTROL WIRING, LOW VOLTAGE WIRING SHALL BE FURNISHED BY THE HVAC CONTRACTOR. LOW & HIGH VOLTAGE WIRING MAY NOT BE IN THE SAME CONDUIT. WIRING MAY NOT ENTER OR EXIT CURB AT ANY POINT. ALL WIRING SHALL ENTER ROOF TOP UNIT AT OUTER ACCESS. USE WEATHER PROTECTED CONNECTIONS, BOXES & CONDUIT. DISCONNECTS SHALL BE PROVIDED BY THE E.C. FOR ALL REQUIRED ROOF EQUIPMENT.
 - THE ELECTRICAL CONTRACTOR SHALL USE A MINIMUM OF 4"-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
 - FOR EACH UNIT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE T-STAT, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MEDICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERLOCKING DEVICES REQUIRED BETWEEN THE HOODED APPLIANCES & HVAC TO COMPLY WITH NFPA-98, INCLUDING THE INSTALLATION OF THE NCA INTERLOCK PANEL PER SHEET M-5, THIS SET. THE PANEL FULLY COMPLIES WITH NFPA-98. ELECTRICAL DISTRIBUTION PLANS & SCHEDULES SHALL BE FORWARDED TO NCA FOR THE PRODUCTION OF THE PANEL PRIOR TO ROUGH-IN. DISCIPLINES OF THE ELECTRICAL CONTRACTOR TO ROUTE HIGH VOLTAGE CIRCUITS THROUGH ASSIGNED DRY CONTACT TERMINALS IN PANEL & FOR FIELD LOCATION. CONTRACTOR PANEL MUST BE IN PLACE PRIOR TO HIGH VOLTAGE ROUGH-IN. IF PANEL IS NOT USED THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL INTERLOCKING REQUIRED PER NFPA98 AND LOCAL CODES. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL INTERLOCKING REQUIRED PER NFPA98 AND LOCAL CODES.

- PLUMBING CONTRACTOR**
- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL CONDENSATE DRAINS DOWNSTREAM OF P-TRAPS FOR A/C EQUIPMENT & DISPOSE OF CONDENSATE AT AN APPROVED LOCATION. DO NOT PENETRATE RTU CURB FOR MOUNTING OR OTHER.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE NATURAL OR LP GAS SUPPLY TO ROOF TOP UNITS WHEN USING GAS HEAT.
 - THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10'-0" MINIMUM CLEARANCE REQUIRED OR PER LOCAL CODE.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-0" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.

PLENUMIZED CURB INSTALLATION NOTES

- CAREFULLY LOCATE AND MARK ROOF CURB LOCATIONS SO THAT DUCT WORK CAN BE INSTALLED IN THE APPROXIMATE LOCATIONS AS SHOWN BY THE FLOOR PLAN. PAY ATTENTION TO THE LOCATION OF THE ROOF STRUCTURE IN ORDER TO ACCOMMODATE THE DUCT DROPS.
- MARK THE EXACT LOCATION OF EACH ROOF CURB. LAY OUT ALL EQUIPMENT LOCATIONS IN ORDER TO MAINTAIN PROPER CLEARANCES FROM EXHAUST FANS AND VENTS AS WELL AS PROVIDING FOR PROPER SERVICE CLEARANCES.
- GENERAL CONTRACTOR SHALL CUT ROOF DECKING MATERIAL TAKING CARE TO AVOID CUTTING ANY STRUCTURAL COMPONENTS. GENERAL CONTRACTOR SHALL ALSO INSTALL ANY NECESSARY FRAMING OR BLOCKING AT OPENINGS.
- WITH ROOF CURB UPSIDE DOWN (SOLID METAL BOTTOM UP) MEASURE AND MARK THE LOCATION OF ANY JOISTS OR OTHER FRAMING MEMBERS THAT MUST BE AVOIDED. MEASURE AND MARK THE LOCATION OF ALL THE DUCT TAPS.
- CUT ALL DUCT TAPS INTO THE BOTTOM PANEL OF THE ROOF CURB. BE CAREFUL NOT TO DAMAGE THE ROOFING SURFACE WHILE MAKING THESE CUTS.
- INSTALL DUCT TAP FITTINGS AND MANUAL DAMPERS INTO THE OPENINGS PREVIOUSLY CUT. SEAL ALL CONNECTIONS ON BOTH THE BOTTOM AND THE TOP SIDES OF THE TAPS.
- FLATTEN TAB OF START COLLAR INSIDE CURB. TIGHT AGAINST INSULATION. SEAL INSIDE OF COLLAR AND TAPS TO INSULATION USING WASTIC DUCT SEALER. ALLOW SEALER TO DRY PRIOR TO PROCEEDING.
- APPLY DUCT SEALER TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANDAUIT STRAP PER MANUFACTURERS INSTRUCTIONS.
- SLIDE OUTER INSULATION SLEEVE OF FLEX TIGHT TO BOTTOM OF CURB. SEAL INSULATION TO BOTTOM OF CURB WITH PRESSURE-SENSITIVE FOAM TAPE TO NOT USE TAPE MEANT FOR ROOF DUCTBOARD. SQUEEGEE OUT ALL AIR BUBBLES FOR PROPER ADHESION.
- TURN CURB RIGHT SIDE UP. LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK. INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS REQUIRED.
- GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS.
- INSIDE BUILDING, THE DUCT RUNS SHALL BE INSTALLED FROM THE TAPS TO THE FAN/SER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT PER SMACNA AND LOCAL CODES.
- NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.

PACKAGE ROOFTOP UNIT SCHEDULE (RTU-1,2,3,4)

TAG	EXISTING RTU-1	EXISTING RTU-2,3	NEW RTU-4
MANUFACTURER	CARRIER	CARRIER	CARRIER
MODEL	48TCDA07 (6 TON)	48TCDD08 (7.5 TON)	48HCED11 (10 TON)
LOCATION, CURB DIMENSIONS	ROOF, EX. TO REMAIN	ROOF, EX. TO REMAIN	ROOF, 78" X 50"
TYPE OF HEAT	NATURAL GAS	NATURAL GAS	NATURAL GAS
TOTAL COOLING CAPACITY, MBTU/HR	72	83	111
SENSIBLE COOLING CAPACITY, MBTU/HR	-	-	80
ENTERING AIR CONDITIONS, DBE/WRF	80/67	80/67	80/67
AMBIENT AIR DB TEMPERATURE, °F	95	95	95
SUPPLY AIR, CFM	2400	3000	4000
OUTSIDE AIR, CFM	SEE SCHEDULE	SEE SCHEDULE	SEE SCHEDULE
EXTERNAL STATIC PRESSURE, "WG	0.75	0.75	0.75
RHP - MEDIUM STATIC MOTOR	-	-	2.4
E.E.R.	-	11.0	12.0
GAS INPUT MBTU/HR	72	125	120/180
GAS OUTPUT MBTU/HR	59	103	98/148
UNIT WEIGHT, LBS.	EX. TO REMAIN	EX. TO REMAIN	1100
ELECTRICAL REQUIREMENT, V/PHASE/Hz	208-230/3/60	208-230/3/60	208-230/3/60
MINIMUM CIRCUIT AMPERAGE	34.7	44.9	61
MAXIMUM OVER CURRENT PROTECTION	50	50	70

ACCESSORIES

- 100% ECONOMISER WITH BAROMETRIC RELIEF
- NCA PLENUMIZED CURB. TO ORDER CALL TOLL-FREE (877) 530-0078.
- ONE YEAR COMPLETE PARTS AND LABOR WARRANTY
- ADDITIONAL FOUR YEAR PARTS WARRANTY COVERING COMPRESSORS
- SMOKE DETECTOR (SEE HVAC ROOF PLAN, SHEET M-2)
- AQUAGUARD AG-3180E MOISTURE SENSOR FOR PRIMARY PAN
- DISCONNECT SWITCH PROVIDED BY MANUFACTURER.

NOTE: COORDINATE RTU PLACEMENT ON SITE PRIOR TO SETTING EQUIPMENT. IF ADJUSTMENT IS NECESSARY MAINTAIN FRESH AIR INTAKE CLEARANCES.

FAN SCHEDULE

UNIT NUMBER	HEF-1, HEF-2	HEF-3	EF-1	EF-2
AREA SERVED	GREASE HOOD	GREASE HOOD	RESTROOMS	RESTROOMS
MANUFACTURER	CAPTIVEAIRE	CAPTIVEAIRE	CAPTIVEAIRE	CAPTIVEAIRE
MODEL NUMBER	DURSH	DUSOH	DR12HEA	DR12HEA
CFM	935 (EACH)	600	375	225
STATIC PRESSURE, "WG	1.25	1.25	0.375	0.375
FAN H.P.	0.75	0.50	0.18	0.18
DRIVE	BELT	BELT	DIRECT	DIRECT
RPM	1276	1456	1250	1250
ELECTRICAL SERVICE	115/1/60	115/1/60	115/1/60	115/1/60
NCA CURB SIZE (LXWXH)	23x23x32	19.5x19.5x32	17.5x17.5x14	17.5x17.5x14
ACCESSORIES	B,D,E,H,I,J,K,L,N	B,D,E,H,I,J,K,L,N	A,B,C,D,F	A,B,C,D,F

- NOTES/ACCESSORIES**
- ALUMINIZED BIRDSCREEN
 - SAFETY DISCONNECT SWITCH
 - GRAVITY BACKDRAFT DAMPER
 - AMCA SEAL & U.L. CERTIFIED
 - UPBLAST DISCHARGE
 - PREFABRICATED ROOF CURB
- H. CURB WITH FAN DISCHARGE 40° ABOVE ROOF
 - INTERLOCK WITH ANSUL SYSTEM PER NFPA98 REQUIREMENTS
 - REFER TO KITCHEN BALANCE SCHEDULE
 - ENSURE EXHAUST DISCHARGES >10' FROM AIR INTAKES
 - COORDINATE WITH MANUFACTURER FOR FINAL SELECTION
 - ENSURE AIR INTAKE IS >10' FROM EXHAUST DISCHARGES
 - U.L. LISTED PREFAB EXTENDED HINGED BASE TO ATTACH FAN

DIFFUSER SCHEDULE

SYM.	SIZE	TYPE	DUCT SIZE	MODEL#	FINISH	BOOT SIZE	OPENING SIZE
A	24X24	SUPPLY 4 WAY	SEE PLANS	NCA12	WHITE	NOTE 1	T-BAR
B	24X24	SUPPLY 3 WAY	SEE PLANS	NCA12-3	WHITE	NOTE 1	T-BAR
C	24X24	SUPPLY 2 WAY PARALLEL	SEE PLANS	NCA12-2P	WHITE	NOTE 1	T-BAR
D	24X24	SUPPLY 1 WAY	SEE PLANS	NCA12-1	WHITE	NOTE 1	T-BAR
E	24X24	SUPPLY PERFORATED	SEE PLANS	7500-6-AL-16	WHITE	NOTE 1	T-BAR
F	12X12	EXHAUST	SEE PLANS	630	WHITE	NOTE 1	T-BAR
G	12X12	SUPPLY 1 WAY W/O.B.D.	SEE PLANS	30	WHITE	NOTE 1	SIZE + 1/4"
H	24X24	RETURN	SEE PLANS	30TB	WHITE	NOTE 1	T-BAR
J	24X24	RELIEF PERFORATED	SEE PLANS	7500-6-AL-16	WHITE	NOTE 1	T-BAR

ALL DIFFUSERS SHALL BE MANUFACTURED OF METAL AND TOP OF ALUMINUM CONSTRUCTION

- DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:
DIFFUSER OR NECK SIZE: 9x9 (A) 250
DIFFUSER TYPE AS NOTED ABOVE

AIR BALANCE SCHEDULE

TAG	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR	BLDG. PRESSURE	% OUTSIDE AIR
RTU-1	2400 CFM	600 CFM	- CFM	-	+ 600 CFM	25
RTU-2	3000 CFM	750 CFM	- CFM	-	+ 750 CFM	25
RTU-3	3000 CFM	750 CFM	- CFM	-	+ 750 CFM	25
RTU-4	4000 CFM	1000 CFM	- CFM	-	+ 1000 CFM	25
HEF-1	-	-	-	935 CFM	- 935 CFM	-
HEF-2	-	-	-	600 CFM	- 600 CFM	-
HEF-3	-	-	-	800 CFM	- 800 CFM	-
EF-1	-	-	-	375 CFM	- 375 CFM	-
EF-2	-	-	-	225 CFM	- 225 CFM	-
TOTAL	12400 CFM	3100 CFM	- CFM	3070 CFM	+ 30 CFM	25

Order Plans

