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CLIENT:

JOHN COVE, LLC.
 7790 ABBEY OAKS COURT
 MANASSAS, VA 20112

PROJECT INFORMATION:

SONIC DRIVE-IN RESTAURANT
 10850 PROMENADE LANE
 MANASSAS, VA 20109
 STORE #6711

WWW.LDILine.com

ELECTRIC WALL UNIT HEATER SCHEDULE						
MARK	MFG/MODEL	HEATING CAPACITY		MCA	ELECTRICAL VOLT / PH / HZ	ACCESSORIES
		KW	MBH			
EW-1	BROAN 198	3	10.24	14.4	208V / 1 / 60	1
EW-2	BROAN 198	3	10.24	14.4	208V / 1 / 60	1

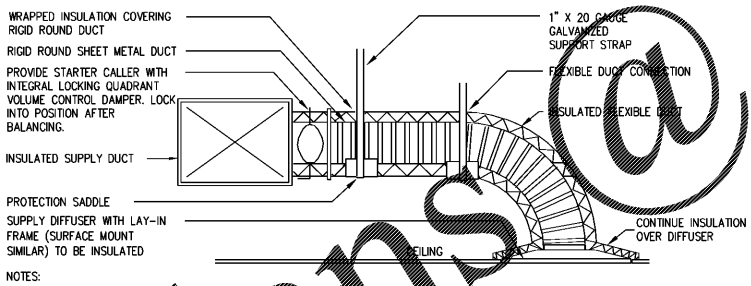
ACCESSORIES: 1. INTEGRAL THERMOSTAT

MAKE-UP AIR (MAU) UNIT SCHEDULE									
UNIT NO.	MANUFACTURER	MANUF. MODEL	SYSTEM	CAPACITY (CFM)	S.P. INCHES W.G.	HP	GAS INPUT/OUTPUT (MBH)	VOLT/ PHASE	ACCESSORIES
MUA-1	STRAVENT	SVA1-D.250-G10	GREASE HOODS	1440	0.65	1.0	105/96	SEE ELEC	1,2

NOTES:
 1. SEE HOOD DRAWINGS BY STRAVENT FOR FURTHER SPECIFICATIONS - FURNISHED BY OTHERS, INSTALLED BY M.C.
 2. PREWIRED DISCONNECT, GRAVITY BACKDRAFT DAMPER, AND FACTORY SUPPLIED ROOF CURB FURNISHED WITH HOOD PACKAGE, BY OTHERS - INSTALLED BY M.C. SEE A2.02 FOR LOCATION OF HINGE SIDE.

ROOFTOP UNIT SCHEDULE																			
MARK	MANUFACTURER	MODEL	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	AMBIENT (OAT)	EXT. SP (IN. W.C.)	DX COOLING COIL			GAS HEAT			ELECTRICAL			APPROX. WEIGHT	REMARKS		
							EAT (DB/WB)	TOTAL (MBH)	SENSIBLE (MBH)	FUEL	INPUT (MBH)	OUTPUT (MBH)	AFUE	V, PH, HZ	MCA (AMPS)			MOCIP	EER (SEER)
RTU-1	EXISTING YORK	ZF090N10N	3400	110	95	1.00	77.7/64.4	EXIST.	EXIST.	NATURAL GAS	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	2,12,13	
RTU-2	EXISTING YORK	ZF060N08N	2000	55	95	0.75	77.7/64.4	EXIST.	EXIST.	NATURAL GAS	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	2,12,13	
RTU-3	YORK HIGH EFFICIENCY	ZE060S07B	2000	435	95	0.75	77.7/64.4	58.6	47.3	NATURAL GAS	75	61	81%	208/230-3-60 1.5 HP	28.7	35	(14.0)	775	1-11
RTU-4	EXISTING YORK	ZF060N08N	2000	435	95	0.75	77.7/64.4	EXIST.	EXIST.	NATURAL GAS	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	2,12,13	
RTU-5	YORK HIGH EFFICIENCY	ZE060S07B	2000	435	95	0.75	77.7/64.4	58.6	47.3	NATURAL GAS	75	61	81%	208/230-3-60 1.5 HP	28.7	35	(14.0)	775	1-11

NOTES:
 1. PER SONIC NATIONAL HVAC AGREEMENT WITH YORK INTERNATIONAL. THE HVAC EQUIPMENT SHALL BE PURCHASED DIRECTLY FROM YORK NATIONAL ACCOUNTS ONLY. THE HVAC MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ORDERING, COORDINATING, INSTALL AND 1ST YEAR WARRANTY. FOR QUESTIONS REGARDING TECHNICAL SPECIFICATIONS CONTACT YORK NATIONAL ACCOUNTS @ 800-481-9738 OR FAX 866-406-9675. FOR ALL OTHER INQUIRES, PLEASE CONTACT WALT JACOB, NATIONAL ACCOUNT SALES MANAGER, AT 405-419-6351, FAX 405-419-6408, EMAIL: WALT.JACOB@YICI.COM
 2. PROVIDE PROGRAMMABLE THERMOSTATS WITH HEAT/COOL T'STAT WITH NIGHT SETBACK FEATURE. T'STAT SHALL HAVE READILY ACCESSIBLE MANUAL OVERRIDE THAT WILL RETURN TO THE PRESETBACK OR SHUTDOWN SCHEDULE WITHOUT REPROGRAMMING. PROVIDE CARRIER SUBBASE FOR 2 STAGE HEATING AND 2 STAGE COOLING. PROVIDE LOCKING LEXAN PLASTIC COVER.
 3. PROVIDE WITH ECONOMIZER AND BAROMETRIC RELIEF. PROVIDE WITH FAULT DETECTION AND DIAGNOSTIC CAPABILITY.
 4. RTU HEIGHTS VARY ACCORDING TO MODEL. CONSULT LOCAL OFFICIALS TO DETERMINE IF ROOFTOP EQUIPMENT SCREENING CONSTRAINTS EXIST, AND CONTACT RTU MANUFACTURERS TO DETERMINE APPROPRIATE MODEL TO MEET YOUR NEEDS.
 5. RTU'S SHOWN (REF. A2.03) ON STANDARD 14" CURB. TO REDUCE HT. OF RTU, LOWER CURB MAY BE USED WHERE ALLOWABLE BY LOCAL CODE. CONSULT YOUR RTU MANUFACTURER FOR AVAILABLE CURB HTS. AND DELIVERY INFORMATION.
 6. ALL FILTERS SHALL BE 2" THROWAWAY (OR EQUAL) FILTERS FOR RETURN AND 1" SCREENS FOR OUTSIDE AIR INTAKES.
 7. PROVIDE HAIL GUARD TO ROOFTOP UNITS IN THE STATE OF ARIZONA, COLORADO, ILLINOIS, KANSAS, MISSOURI, NEBRASKA, OKLAHOMA AND TEXAS.
 8. PROVIDE LOW AMBIENT CONTROL KIT DOWN TO 25°F.
 9. MECHANICAL CONTRACTOR RESPONSIBLE FOR DETAIL ROOF OPENING LOCATIONS PER MANUFACTURER'S REQUIREMENTS.
 10. PROVIDE ALL RTU'S WITH MULTI-SPEED DRIVES (WHEN POSSIBLE) AND FIELD SUPPLIED DRIVES (AS NEEDED)
 11. UNITS SHALL HAVE STAINLESS STEEL HEAT EXCHANGERS
 12. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR OF THE EXISTING ROOF TOP UNIT AND ITS ACCESSORIES AS FOLLOWS, BUT ARE NOT LIMITED TO: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR OR REPLACE DRIVES, FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM.
 13. ALL WORK, EQUIPMENT, AND ACCESSORIES TO BRING EXISTING SYSTEM TO GOOD WORKING CONDITION SHALL BE COVERED UNDER CONTRACTOR'S ORIGINAL BID AND AT NO ADDITIONAL EXPENSE. CONTRACTOR SHALL VERIFY ALL ON SITE CONDITIONS PRIOR TO BID.



NOTES:
 1. PROVIDE AT FLEXIBLE DUCT CONNECTION, METAL BAND AND BAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAIN BAND WITH AN ADDITIONAL DRAIN BAND.
 2. PROVIDE BEADING ON ROUND METAL DUCT AND FLEXIBLE DUCT.
 3. PROVIDE MINIMUM 2" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO THE ROUND DUCT, DAMPERS AND DIFFUSERS.
 4. BAND BEHIND ROUND DUCT INSULATION TO DUCT END. PROVIDE LAP FOR INSULATION OVERLAP.

DIFFUSER CONNECTION DETAIL
 SCALE: N.T.S.

EXHAUST FAN SCHEDULE											
EQUIP. NO.	MANUF.	MODEL NO.	TYPE	CFM	EXT. SP.	HP (WATTS)	RPM	TIP SPEED	DRIVE	VOLT/ PHASE	ACCESSORIES
EF-1	STRAVENT	SVNCA16HPFA	UPBLAST	2400	1.4	1.5	1295	-	BELT	SEE ELEC	1,2,3
	EXISTING	EXISTING	DOWNBLAST	200	EXIST.	EXIST.	EXIST.	-	EXIST.	EXIST.	4,5

ACCESSORIES:
 1. SEE HOOD DRAWINGS BY STRAVENT FOR FURTHER SPECIFICATIONS - FURNISHED BY OTHERS, INSTALLED BY M.C.
 2. FAN SHALL BEAR UL-782 "POWER VENT. FOR RESTAURANT EXHAUST APPLIANCES" LISTING.
 3. WEATHER-PROOF DISCONNECT AND FACTORY SUPPLIED ROOF CURB WITH HINGES FURNISHED WITH HOOD PACKAGE, BY OTHERS - INSTALLED BY M.C. SEE A2.02 FOR LOCATION OF HINGE SIDE.
 4. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR OF THE EXISTING EXHAUST FAN AND ITS ACCESSORIES AS FOLLOWS, BUT ARE NOT LIMITED TO: REPLACE BELTS, INSPECT, REPAIR OR REPLACE DRIVES, FAN BEARINGS, MOTORS, CONTROL COMPONENTS AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE PRIOR TO BIDDING AND VERIFY ALL EXISTING SITE CONDITIONS.
 5. ALL WORK, EQUIPMENT, AND ACCESSORIES TO BRING EXISTING SYSTEM TO GOOD WORKING CONDITION SHALL BE COVERED UNDER CONTRACTOR'S ORIGINAL BID AND AT NO ADDITIONAL EXPENSE. CONTRACTOR SHALL VERIFY ALL ON SITE CONDITIONS PRIOR TO BID.

PROJECT NO.: 0419738-002
 DRAWN BY: TAB
 CHECKED BY: GS

ISSUE: DATE:
 PERMIT SET 07-27-18

REVISION: DATE:

PROJECT LOCATION:
MANASSAS, VA
 #6711

SHEET NUMBER / TITLE:
M.02
 MECHANICAL DETAILS AND SCHEDULES

Order Plans