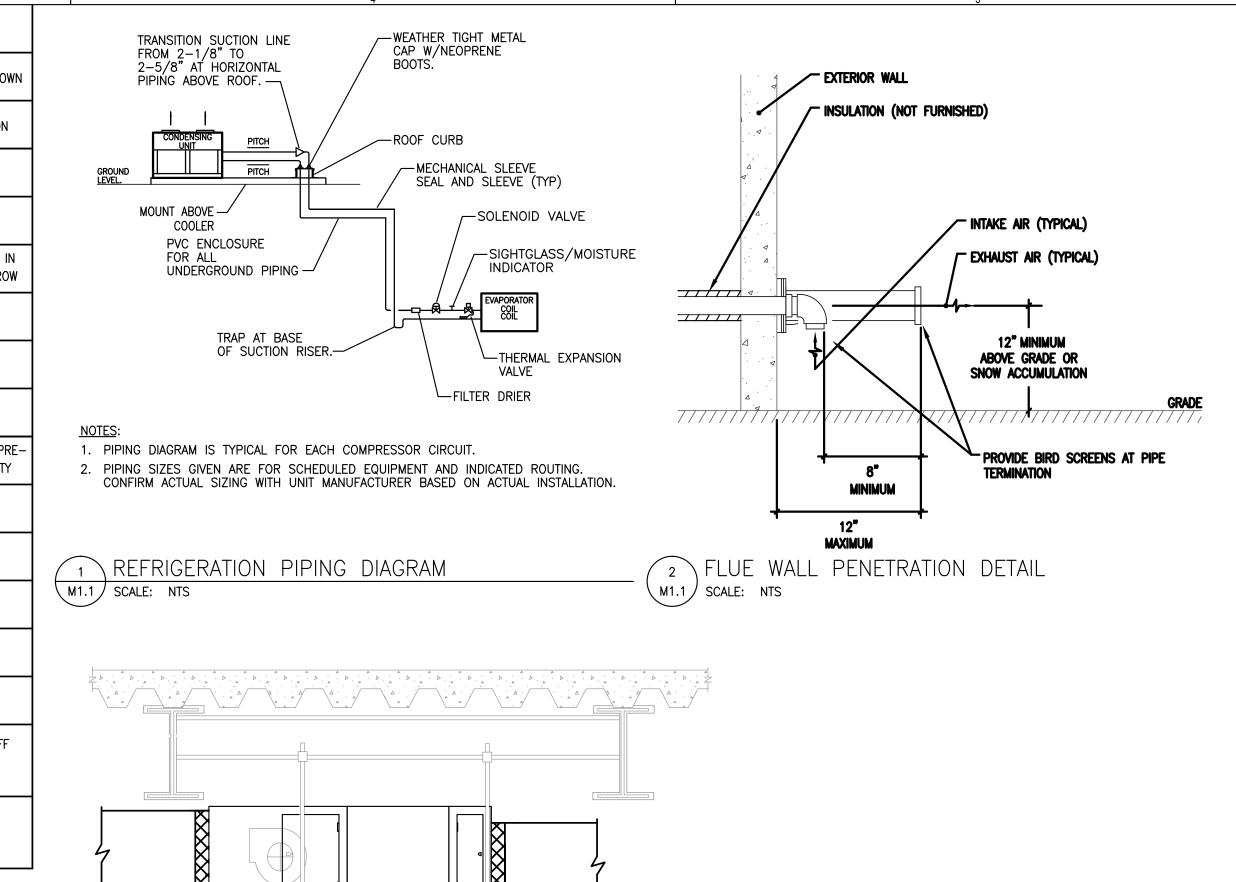
DUCTWORK SYMBOL LIST

	PIPING SY	MBOL I	LIST
<b>⊱</b> ⊘	<b>← ←</b>	ELBOWS/RISEF	RS UP AND ELBOW/RISER DOWN
5-0-6	, <del>, , , ; , , , , , , , , , , , , , , ,</del>	TEES, POINTIN	IG UP AND TEE, POINTING DN
<i>,</i>	90 DEGREE ELBOW	, ſ	TEE
S  -	S UNION	5	CAPPED PIPE
<b>Ş</b> ▶	FLOW DIRECTION ARROW	ç <del>-</del>	PITCH PIPE DOWN IN DIRECTION OF ARROW
ф	BALL VALVE	ı[ι	BUTTERFLY VALVE
$\bowtie$	GATE OR GENERIC VALVE		GLOBE VALVE
ı₹ı	GAS COCK/PLUG VALVE	<b>♦</b>	BALANCING VALVE
×	GAS COCK		BALANCING VALVE WITH PRE- SET BALANCING CAPABILITY
Ż	CHECK VALVE	TPP	PETE'S PLUG
X	VARIABLE FLOW VAI VF	•	FILTER
P	PRESSURE GAUGE	1	STEAM TRAP
3	PRESSURE/TEMPERATURE RELIEF VALVE	$\rightarrow$	STRAINER
	SUCTION DIFFUSER	H	STRAINER WITH BLOW-OFF VALVE
A	NATURAL GAS PRESSURE REGULATOR OR PRESSURE REDUCING VALVE	<b>\$</b>	STRAINER WITH BLOW-OFF VALVE, NIPPLES, AND CAPPED HOSE ADAPTER
	ELECTRICALLY OPERATED 2-WAY VALVE	显	ELECTRICALLY OPERATED 3-WAY VALVE



	DIFFUSERS, REGISTERS, AND GRILLES												
TAG	SERVICE	TYPE	DAMPER AT	BLADE ANGLE	CONSTRUCTION	FINISH	MANUFACTURER	MODEL	NOTES				
			AIR TERMINAL	OR CORE	MATERIAL			(BASIS OF DESIGN)					
D-1	SUPPLY	REGISTER	OPPOSED BLADE	ADJUSTABLE	ALUMINUM	#26 WHITE	TITUS	300FL	1, 2, 3, 4, 5				
D-2	SUPPLY	12"x12" SQ. DIFFUSER	SEE NOTES	N.A.	STEEL	#26 WHITE	TITUS	TMS	1, 2, 3, 4, 5				
D-3	EXHAUST	12"x12" SQ. DIFFUSER	SEE NOTES	N.A.	STEEL	#26 WHITE	TITUS	OMNI	1, 2, 3, 4, 5				

- 1. FURNISH AND INSTALL VOLUME DAMPER FOR AIR FLOW BALANCING PURPOSES IN EACH DUCT TAKE-OFF TO A DIFFUSER, REGISTER OR GRILLE.
- 2. PROVIDE OPPOSED BLADE DAMPER OR REMOTELY OPERATED VOLUME DAMPER PER THE SPECIFICATIONS, FOR DIFFUSERS LOCATED IN CEILINGS THAT WILL NOT ALLOW ACCESS TO THE VOLUME DAMPER IN THE DUCT TAKE-OFF (SEE NOTE 1).

- QUANTITY

- 3. COORDINATE BORDER TYPES, PLASTER FRAMES, & MOUNTING METHODS WITH THE CEILING TYPE/WALL CONSTRUCTION AT EACH DIFFUSER, REGISTER, & GRILLE LOCATION. 4. FURNISH AND INSTALL DIFFUSERS, REGISTERS, AND GRILLES MANUFACTURED BY ONE OF THE FOLLOWING MANUFACTURERS:
- TITUS, PRICE, CARNES, KRUEGAR, METALAIRE, OR NAILOR.
- 5. FINAL DIFFUSER COLORS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

	ROOM NAME		CODE RE MECHA VENTIL	EQUIRED ANICAL	ACTUAL MECHANICAL VENTILATION		DULE	SYSTEMS		
ROOM No.		FLOOR AREA (SF)	SUPPLY AIR (CFM)	EXHAUST AIR (CFM)	SUPPLY AIR (CFM)	EXHAUST AIR (CFM)	ROOM FUNCTION	SUPPLY	EXHAUST	
	101 DINING AREA	825	1240	1240	1247	NOTE 1	DINING ROOM - PUB NO EQUIP.	AHU-1	KEF-1	
	102 SERVICE AREA	135	162	162	NOTE 2		WORK ROOM	MAU-1	KEF-1	
	103 COOKING AREA	155	190	620	3125	3800	KITCHEN - PUBLIC	MAU-1	KEF-1	
	104 PREP AREA	180	216	216	NOTE 3	525	WORK ROOM	MAU-1	KEF-1	
	105 STORAGE AREA	110	N.R.	N.R.	0	0	STORAGE - INACTIVE	-	-	
	106 CLEANING AREA	100	120	120	203	NOTE 4	WORK ROOM	AHU-1	KEF-1	
	108 OFFICE AREA	105	65	50	NO <sup>-</sup>	TE 5	OFFICE	AHU-1	KEF-1	
	109 MEN'S TOILET	60	N.R.	120	0	120	RESTROOM	-	TEF-1	
	110 WOMEN'S TOILET	65	N.R.	130	0	130	RESTROOM	-	TEF-1	
	111 HALL	65	N.R.	N.R.	0	0	CORRIDOR	-	-	
	TOTALS:	1,800	1,993	2,658	4,575	4,575		•	•	

- 1. 1247 CFM EXHAUST TRANSFER TO COOKING AREA 103.
  - 2. 162 CFM SUPPLY RELIEF FROM COOKING AREA 103 & 162 CFM EXHAUST TRANSFER TO COOKING AREA 103.
  - 3. 216 CFM SUPPLY RELIEF FROM COOKING AREA 103.
  - 4. 120 CFM EXHAUST TRANSFERRED TO PREP AREA 104.

THROW IS 4-WAY UNLESS INDICATED OTHERWISE | THROW IS 2-WAY UNLESS INDICATED OTHERWISE

5. 65 CFM SUPPLY TRANSFERRED FROM CLEANING AREA 106 & 65 CFM EXHAUST TRANSFERRED TO PREP AREA 104.

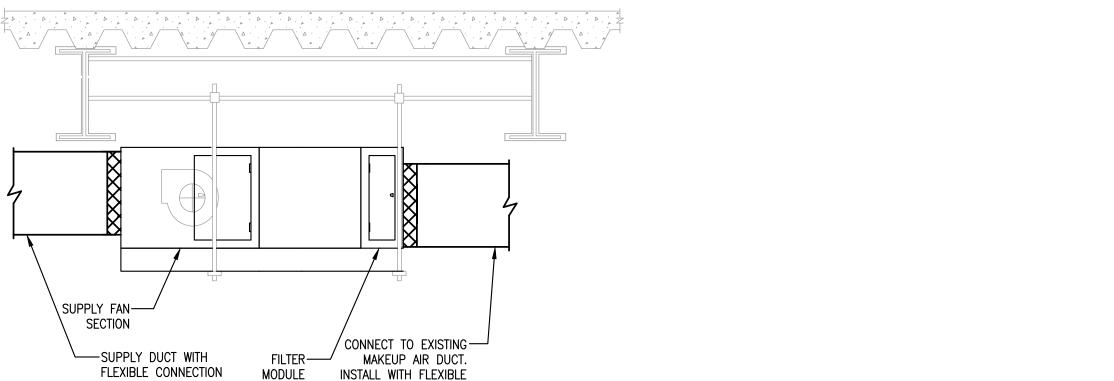
		M1.1	SCALE: NONE
PRESSURIZATION SCHEDULE			
CODE VENTILATION CFM:	1,993		
ACTUAL OUTSIDE AIR CFM (MIN. 33-1/3% OF ABOVE):	4,575		
TOTAL ACTUAL CONTINUOUS EXHAUST CFM:	4,575		
TOTAL CONTINUOUS RELIEF CFM:	-		
COMPLIES?	YES		
The total actual continuous exhaust cfm must be between 90%			
and 100% of the code required outside air.			
HEATING SCHEDULE			
CODE VENTILATION CFM:	1,993		

HEATING SCH	EDULE	
CODE VEN	1,993	
ACTUAL OUTSIDE AIR CFM (MIN. 33-1/3	4,575	
VENTILATIO	397	
BUILDIN	68.7	
TOTAL HEATIN	466	
HEATING EQUIPMENT		OUTPUT
	TAC	
OUTPUT CAPACITY (MBH)	TAG	(MBH)
OUTPUT CAPACITY (MBH)	TAG AHU-1	
OUTPUT CAPACITY (MBH)		(MBH)
OUTPUT CAPACITY (MBH)	AHU-1	(MBH) 126
OUTPUT CAPACITY (MBH)	AHU-1 MAU-1	(MBH) 126 304
OUTPUT CAPACITY (MBH)  TOTAL HEATING EQUIP. OUTF	AHU-1 MAU-1 WSHP-1 WSHP-2	(MBH) 126 304 104

HEATING CERTIFICATION STATEMENT The heating system is certified to heat all rooms regularly occupied by humans to a min inside temperature of 70° when the outside temperature is minus 10° F.

Owner, Contractor or Owner's licensed engineer representative.

MAKE UP AIR UNIT (MUA) SCHEDULE																						
TAG	AREA HEATING - NATURAL GAS				SUPPLY FAN						FILTER		ELECTRICAL		WEIGHT	MANUFACTURER	MODEL	NOTES				
	SERVED	MBH	MBH	EAT	LAT	STAGES	AGA	CFM	MIN OA	TYPE	DRIVE	E.S.P.	MOTOR	TYPE	THICKNESS	VOLTS/PH/HZ	MCA	MOCP	1		(BASIS OF DESIGN)	
		INPUT	OUTPUT	DB	DB		EFF (%)		CFM		TYPE	(IN. WC)	(H.P.)		(IN.)							
MUA-1	KITCHEN	550.0	332.0	-10.0	77.4	2	60%	3,500	3,500	FC	BELT	1.00	3.00	DISPOSABLE	2	208-3-60	12.0	15	915	RUPP AIR	D500-G15	1



MAKEUP AIR UNIT DETAIL



PHONE: 815-369-9155 FAX: 815-369-4495 WWW.LINGLEDESIGN.COM

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		DESCRIPTION:	01/08/10 ISSUED FOR PERMIT					
	REVISIONS.	DATE:	01/08/10					
	2	#						
l			-	•	•	•		_

PROJECT NUMBER: 09-116 CHECKED BY:

MECHANICAL SYMBOLS **DETAILS** & SCHEDULES

SHEET NUMBER: