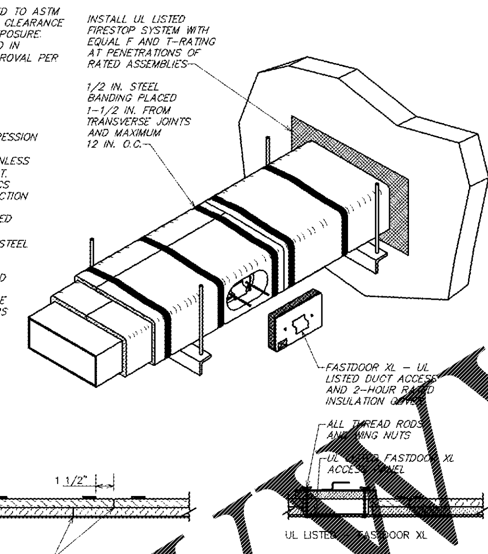
SYMBOLS					
HEATING–VENTILATING–AIR CONDITIONING					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	STEAM (LOW PRESSURE) STEAM (MEDIUM PRESSURE) STEAM (HIGH PRESSURE)		AUTOMATIC CONTROL VALVE		SUPPLY OR FRESH AIR DUCT (SA OR FA)
	CONDENSATE (LOW PRESSURE) CONDENSATE (MEDIUM PRESSURE) CONDENSATE (HIGH PRESSURE)		PRESSURE REGULATING VALVE (PRV)		RETURN OR EXHAUST DUCT (RA OR EA)
HWS	HOT WATER SUPPLY (HEATING)		SAFETY RELIEF VALVE	ST	SOUND TRAP
HWR	HOT WATER RETURN (HEATING)		BLOW OFF VALVE	CFM SIZE	SUPPLY REGISTER OR GRILLE (R OR G)
EG	ETHYLENE GLYCOL SUPPLY	#/HR	F AND T TRAP (CAP. #/HR)	CFM SIZE	RETURN REGISTER OR GRILLE (R OR G)
EG	ETHYLENE GLYCOL RETURN		THERMOSTATIC TRAP	CFM SIZE	FRESH AIR INTAKE (FA)
CWS	CHILLED WATER SUPPLY	S.P.	STATIC PRESSURE		ROUND CEILING DIFFUSER (SUPPLY)
CWR	CHILLED WATER RETURN		CIRCUIT SETTER FLOW CONTROL VALVE		ROUND CEILING DIFFUSER (SUPPLY AND RETURN)
D	CONDENSATE OR VACUUM PUMP DISCHARGE		AIR BLEEDER VALVE (RADIANT PANEL)		SQUARE CEILING DIFFUSER (SUPPLY)
H	HUMIDIFICATION LINE		AIR ELIMINATOR		SQUARE CEILING DIFFUSER (SUPPLY AND RETURN)
FOS	FUEL OIL SUPPLY		AUTOMATIC BALANCING VALVE		SQUARE CEILING DIFFUSER THREE WAY THROW
FOR	FUEL OIL RETURN		SOLENOID VALVE (REFRIGERANT)		SQUARE CEILING DIFFUSER TWO WAY THROW
FOV	FUEL OIL VENT		THERMOSTATIC EXPANSION VALVE (REFR.)		GRAVITY DAMPER
G	GAS LINE		BACK PRESSURE VALVE	MD	MOTORIZED DAMPER
RL	REFRIGERANT LIQUID LINE		SIGHT GLASS	FD	FIRE DAMPER
RS	REFRIGERANT SUCTION LINE		ROUND DUCT RISER	SD	SMOKE DAMPER
RD	REFRIGERANT HOT GAS DISCHARGE LINE	FC-1	FAN COIL UNIT AND MARK	FD,SD	FIRE AND SMOKE DAMPER
C	CONDENSER WATER	UH-1	UNIT HEATER–PROPELLER TYPE & MARK	BD	BASEBOARD DIFFUSER
CR	CONDENSER WATER RETURN	CUH-1	CABINET UNIT HEATER & MARK	1	HEATING RISER NUMBER
BBD	BOILER BLOW OFF	FT-1 MBH	FIN TUBE, MARK AND CAPACITY	1	EXHAUST FAN RISER NUMBER
ES	EXHAUST STEAM	C-1	CONVECTOR AND MARK	BR	BASEBOARD RADIATION
	CONCENTRIC REDUCER	UV-1	UNIT VENTILATOR AND MARK	S	REMOTE SENSOR
	ECCENTRIC REDUCER	8/6	RECTANGULAR DUCT FIRST FIGURE IS SIDE SHOWN	T	THERMOSTAT
	UNION		ROUND DUCT		
	STRAINER		CANVAS CONNECTION		
	EXPANSION JOINT		VOLUME DAMPER (ELEV AND PLAN)		
	THERMOMETER		TURNING VANES		
	PRESSURE GAGE		EXTRACTOR		

THERMOSTAT SCHEDULE						
MARK	SERVICE & LOCATION	OCCUPIED		UNOCCUPIED		REMARKS
		COOLING	HEATING	COOLING	HEATING	
RTU-1	LOUNGE/BAR	75	70	78	60	
RTU-2	DINING	75	70	78	60	
RTU-3	KITCHEN	78	68	78	60	
MAU-1	HOOD-1 AND HOOD-2	78	68			
MAU-2	HOOD-3	78	68			
MAU-3	HOOD-4	78	68			
AC-1	PATIO	78	68	78	60	
AC-2	PATIO	78	68	78	60	

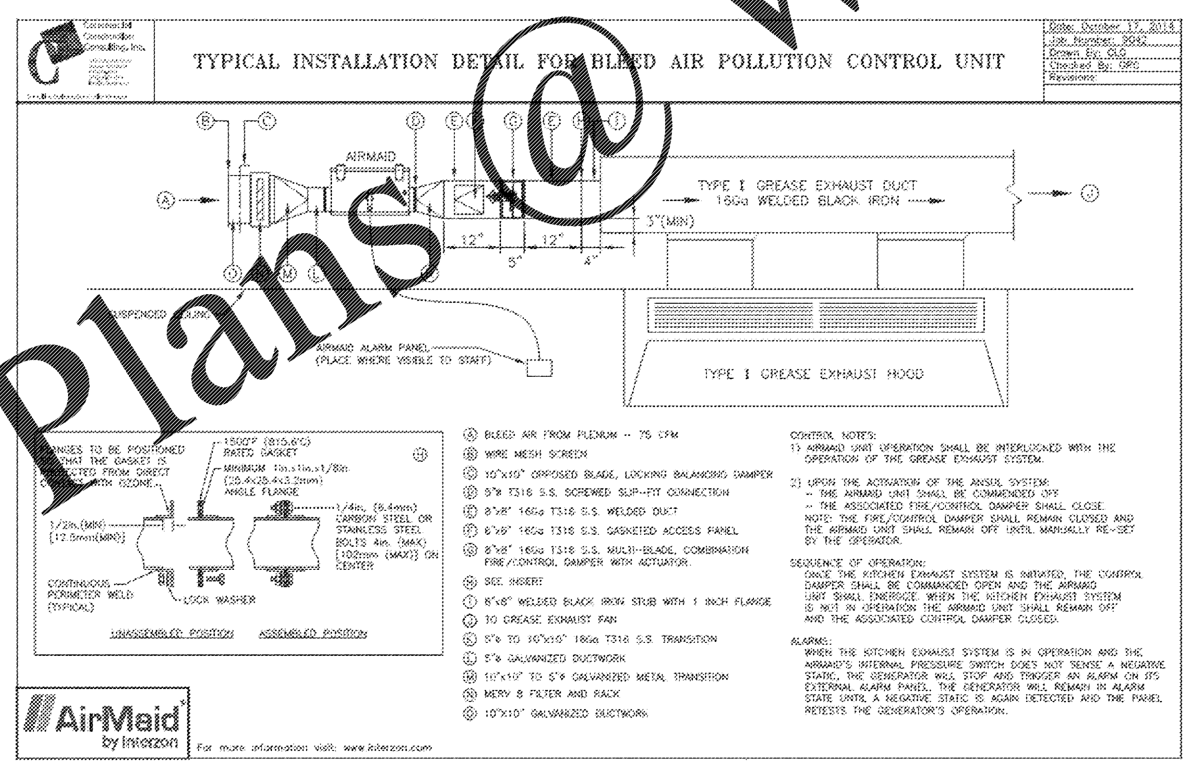
NOTES:
1. CONTRACTOR SHALL COORDINATE EXACT OPERATIONAL TIMES WITH OWNER/MANAGER PRIOR TO PROGRAMMING.
2. CONTRACTOR SHALL COORDINATE RESTROOM EXHAUST FAN TIMER WITH T-STAT SCHEDULE.
3. CONTRACTOR MUST VERIFY THAT HUMIDITY CONTROLS AND SENSORS FUNCTIONS PER MANUFACTURERS SPECIFICATIONS. SET TO 50% RH IN THE SPACE.

NOTES:
1. *THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1 OR 2 HOUR EXPOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC-ES APPROVAL PER REPORT ESR 2213 OR EST 2832.*
2. *COMPLIANT TO THE FOLLOWING CODES: NFPA 96, INTERNATIONAL MECHANICAL CODES, UNIFORM MECHANICAL CODE, CALIFORNIA MECHANICAL CODE*
3. *INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.*
4. *MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAUGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT.*
5. *INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.*
6. *SUPPORT HANGER SYSTEMS DO NOT NEED TO BE RAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8" IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.*
7. *THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION OF THE FAN.*
8. *THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.*



** DETAIL COURTESY OF MORGAN THERMAL CERAMICS.

1 FIREMASTER FASTWRAP XL DETAIL
SCALE: NONE



2 AIRMAID POLLUTION CONTROL INSTALLATION DETAIL
SCALE: NONE

ROOF TOP UNITS (BY LANDLORD)																	
MARK	CLG. CAP. (MBH)			COMP. KW	HTG CAP. (MBH)		CFM	EXT. S.P.	FAN BHP	ELECTRICAL				WEIGHT (LBS)	SEER / EER	REF. TYPE	TRANE MODEL NUMBER
	SENS.	TOTAL	NOM. TONS		INPUT	OUTPUT				VOLTS	PH	MCA	MOCP				
RTU-1	119.7	152.39	12.5	10.12	250.0	200.0	5000	0.60	1.67	208	3	67.0	80	2731	--/12.1	R410A	YHD150
RTU-2	68.63	92.0	7.5	7.54	200.0	160.0	3000	0.60	1.03	208	3	41.9	50	1300	--/12.6	R410A	YHC092
RTU-3	68.63	92.0	7.5	7.54	200.0	160.0	3000	0.60	1.03	208	3	41.9	50	1300	--/12.6	R410A	YHC092
RTU-4	63.31	87.34	7.5	7.26	200.0	160.0	2400	0.60	0.68	208	3	41.9	50	1300	--/12.6	R410A	YHC092
RTU-5	86.75	110.08	10.0	9.23	250.0	200.0	3200	0.60	1.24	208	3	46.1	60	2370	--/12.4	R410A	YHC120

COOLING CAPACITIES BASED ON ARI STANDARD 210/240 OR 340/360: 80° F DB/ 67° F WB INDOOR ENTERING AIR TEMPERATURE. 95° F DB AIR ENTERING OUTDOOR FAN. SCHEDULED UNIT CFM MAY DIFFER FROM ARI STANDARD CFM.
TOTAL WEIGHT INCLUDES THE WEIGHTS OF THE BASE UNIT, ALL OPTIONS, AND THE CURB OR CURB ADAPTER.
** TRANE IS THE BASIS OF DESIGN. NO EXCEPTIONS. UNITS ARE PROVIDED BY THE OWNER. CONTACT MCNAMARA & COMPANY – RICK THOMAS AT (704) 243-3811 FOR LIST OF OWNER PROVIDED HVAC EQUIPMENT.
PROVIDE THE FOLLOWING ACCESSORIES FOR ROOFTOP UNIT:
1. PROVIDE WITH FACTORY INSTALLED NON-FUSED DISCONNECT, UNPOWERED GFI WEATHERPROOF CONVENIENCE OUTLET, THROUGH THE BASE ELECTRICAL CONNECTION
2. PROVIDE WITH 14" HIGH ROOF CURB.
3. SUPPLY DUCT SMOKE DETECTOR TO BE SUPPLIED BY FIRE ALARM PROVIDER (SECURITAS), INSTALLED BY MECHAINCAL CONTRACTOR AND WIRED BY FIRE ALARM CONTRACTOR.
4. PROVIDE WITH CONDENSER COIL HAIL GUARD.
5. PROVIDE WITH HOT GAS REHEAT OPTION FOR DEHUMIDIFICATION FOR RTU-1, RTU-2, AND RTU-3.
6. PROVIDE WITH DRY-BULB TEMPERATURE ECONOMIZER.
7. PROVIDE WITH POWER EXHAUST FOR RTU-1 AND RTU-5.

EXHAUST FANS												
MARK	LOCATION	SERVICE	CFM	EXT. S.P. (IN W.G.)	SONES	MOTOR DATA				RPM	MFR.	REMARKS
						HP	VOLTS	PH	CYC.			
EF-6	ROOF	RESTROOMS	400	0.5	8.0	1/8	115	1	60	[illegible]	LOREN COOK	ACED 90C15DH

UNITS ARE PROVIDED BY THE OWNER. CONTACT MCNAMARA & COMPANY – RICK THOMAS AT (704) 243-3811 FOR LIST OF OWNER PROVIDED HVAC EQUIPMENT.
NOTES:
1. PROVIDE SOLID STATE SPEED CONTROL.
2. PROVIDE MINIMUM 14" HEIGHT ROOF CURB.

DIFFUSERS, GRILLES AND REGISTERS						
MARK	SERVICE	LOCATION	DIFF. TYPE	MANUFAC.	CATALOG NUMBER	REMARKS
D-1	SUPPLY	CEILING	AC TILE	METALAIRE	5700-1 X 24x24 01 BDS	SEE PLAN FOR NECK SIZE
D-2	SUPPLY	DUCT	N/A	METALAIRE	4004PCF X X [2]	SEE PLAN FOR NECK SIZE
D-3	SUPPLY	CEILING	AC TILE	METALAIRE	7500R-6-AL X 24x24 01 BDS	SEE PLAN FOR NECK SIZE
D-4	SUPPLY	CEILING	AC TILE	METALAIRE	5700-1-AL X 24x24 01 BDS	SEE PLAN FOR NECK SIZE
D-5	SUPPLY	WALL	N/A	METALAIRE	4004-1 X X 01 OBD [2]	SEE PLAN FOR NECK SIZE
D-6	SUPPLY	DUCT	N/A	METALAIRE	5700-1 X 12x12 01 BDS	SEE PLAN FOR NECK SIZE
D-7	SUPPLY	CEILING	VARIES	METALAIRE	5700-1 X 12x12 01 BDS	SEE PLAN FOR NECK SIZE
G-1	RETURN	CEILING	AC TILE	METALAIRE	RHE-1 X X 01 [1]	SEE PLAN FOR NECK SIZE
G-2	EXHAUST	CEILING	AC TILE	METALAIRE	RHE-1 X X 01 [1]	SEE PLAN FOR NECK SIZE
G-3	RETURN	CEILING	GYP. BD.	METALAIRE	RHE-1 X X 01 [1]	SEE PLAN FOR NECK SIZE
G-4	RETURN	WALL	N/A	METALAIRE	RHE-1 X X 01 [1]	SEE PLAN FOR NECK SIZE

UNITS ARE PROVIDED BY THE OWNER. CONTACT MCNAMARA & COMPANY – RICK THOMAS AT (704) 243-3811 FOR LIST OF OWNER PROVIDED HVAC EQUIPMENT.
NOTES:
1. PROVIDE 1/2" X 1/2" X 1" CORE.
2. COORDINATE DIFFUSER/GRILLE PAINT COLOR IN FIELD WITH ARCHITECT AND OWNER.

CIRCULATION FANS												
MARK	LOCATION	SERVICE	CFM	EXT. S.P. (IN W.G.)	SONES	MOTOR DATA				RPM	MFR.	REMARKS
						HP	VOLTS	PH	CYC.			
CF-1	SUSP. FRM STRUCTURE	MECH. RM.	400	0.475	3.0	150(W)	120	1	60	1400	LOREN COOK	GC-622

UNITS ARE PROVIDED BY THE OWNER. CONTACT MCNAMARA & COMPANY – RICK THOMAS AT (704) 243-3811 FOR LIST OF OWNER PROVIDED HVAC EQUIPMENT.
NOTES:
1. PROVIDE SOLID STATE SPEED CONTROL.
2. FAN SHALL OPERATE 24/7.
3. PROVIDE WITH BACKDRAFT DAMPER.

FANCOIL / AIR SOURCE HEAT PUMP										
MARK	TOTAL COOLING (MBH)	REF. TYPE	HEATING CAPACITY		CFM	EXTERNAL S.P. (IN. H20)	ELECTRICAL			MANUFACTURER / MODEL NUMBER
			ELECT. KW	HEATPUMP MBH			MCA	VOLTS	PH	
AC-1	NA	R410A	–	–	–	–	–	–	–	MITSUBISHI / PLA-A24BA
COND-1	24.0	R410A	NA	26.0 @ 47° F	NA	NA	18	208	1	MITSUBISHI / PUZ-A24NHA
AC-2	NA	R410A	–	–	–	–	–	–	–	MITSUBISHI / PLA-A30AA
COND-2	30.0	R410A	NA	32.0 @ 47° F	NA	NA	25	208	1	MITSUBISHI / PUZ-A30NHA

UNITS ARE PROVIDED BY THE OWNER. CONTACT MCNAMARA & COMPANY – RICK THOMAS AT (704) 243-3811 FOR LIST OF OWNER PROVIDED HVAC EQUIPMENT.
NOTES:
1. INDOOR UNIT (AC) IS POWERED THROUGH OUTDOOR UNIT (COND).
2. PROVIDE WITH ALUMASTAND MOUNTS FOR OUTDOOR CONDENSING UNITS.
3. PROVIDE WITH THERMOSTAT AND LOCATE AS SHOWN ON SHEET M1.01.

AIR BALANCE SCHEDULE							
SUPPLY AIR UNIT	OUTSIDE AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	SUPPLY AIRFLOW (CFM)	OA/SA %	EXHAUST AIR UNIT	EXHAUST AIRFLOW (CFM)	REMARKS
RTU-1	1420	3580	5000	28.4	EF-1	-3160	
RTU-2	870	2130	3000	29.0	EF-2	-2400	
RTU-3	870	2130	3000	29.0	EF-3	-3400	
RTU-4	350	2050	2400	14.6	EF-4	-2400	
RTU-5	470	2730	3200	14.6	EF-5	-800	
MAU-1	4535	0	4535	100.00	EF-6	-400	
MAU-2	2110	0	2110	100.00			
MAU-3	2040	0	2040	100.00			
TOTAL	12665	12620	25285	50.08	TOTAL	-12560	
					RESULTING BUILDING PRESSURIZATION	+105 CFM	
					PRESSURIZATION PERCENTAGE	0.415%	

HVAC RESPONSIBILITY SCHEDULE			
	PROVIDE	INSTALL	NOTES
RTU-1, RTU-2 AND RTU-3	LANDLORD	LANDLORD	
CAPTIVEAIRE PACKAGE (HOODS, EF, MAU, ETC.)	OWNER	MECHANICAL CONTRACTOR	
EF-6	OWNER	MECHANICAL CONTRACTOR	
EXPOSED SPIRAL DUCT	OWNER	MECHANICAL CONTRACTOR	NOTE 1
DIFFUSERS/GRILLES	OWNER	MECHANICAL CONTRACTOR	
PC-1	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	
REFRIGERATION WORK (COOLER/FREEZER/ICE MACHINE)	–	–	NOTE 2
GREASE DUCT LEAK TEST	–	–	NOTE 2
TEST AND BALANCE	–	–	NOTE 3
SMOKE DETECTORS	FIRE ALARM CONTRACTOR	MECH. CONTRACTOR (WIRING BY FIRE CONTRACTOR)	
THERMOSTAT, SENSORS, HUMIDISTATS	OWNER	MECHANICAL CONTRACTOR	
WIRING AND PROGRAMMING OF T-STAT/HUMIDISTAT CONTROLS	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	
UNIT STARTUP	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	
TRAINING FOR HVAC UNITS TO OPERATIONS	MECHANICAL CONTRACTOR	–	
FILTERS CHANGED PRIOR TO STORE OPENING	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	

*MECHANICAL ITEMS NOT COVERED IN THE ABOVE SCHEDULE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.
NOTES:
1. DOES NOT APPLY TO KITCHEN SPIRAL DUCTWORK.
2. CONTRACTED SEPARATELY BY OWNER.
3. MECH SUB AND EC SUB REQUIRED TO BE ON WHILE RTU/FAN BALANCE COMPLETED BY MCNAMARA AND THE T&B ON THE EXHAUST HOODS BY CAPTIVEAIRE.

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No.	Description	Date

revisions

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