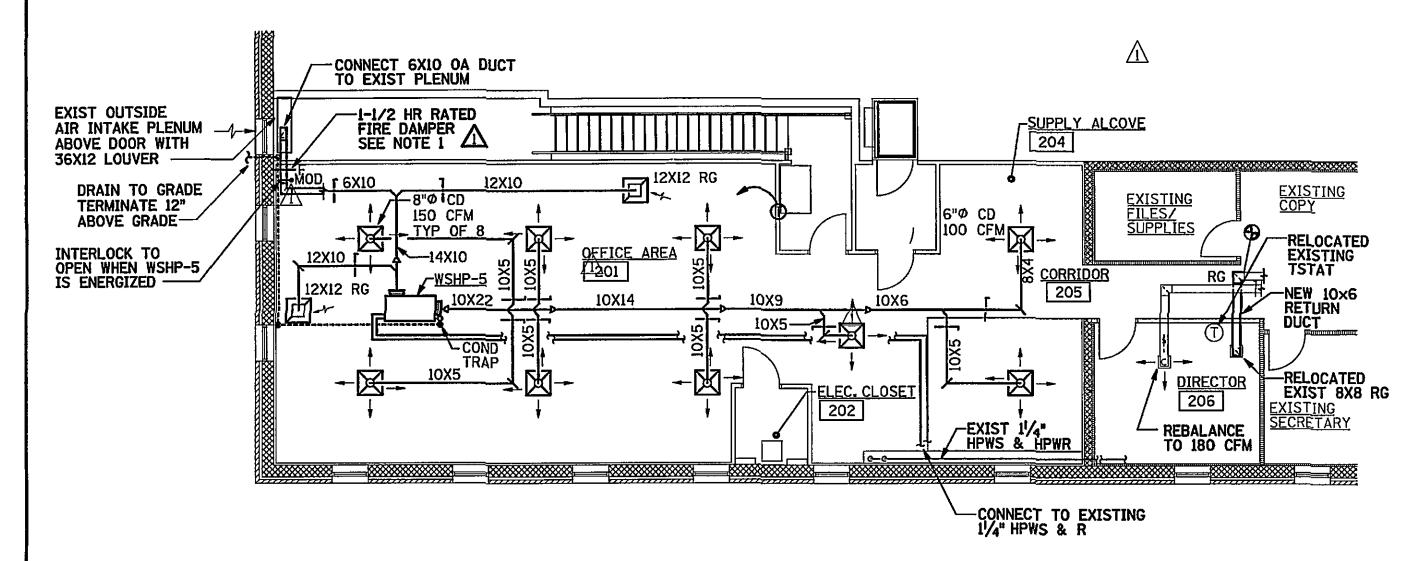


NOTES: 1. FIRE DAMPERS SHALL BE TYPE B AND HAVE A MAXIMUM AIR VELOCITY AND STATIC PRESSURE RATING SUITABLE FOR USE IN THE INSTALLED AIR SYSTEM. FIRE DAMPERS SHALL UL-555 LISTED. PROVIDE ACCESS DOOR FOR INSPECTION OF FIRE DAMPER.

NEW WORK - FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



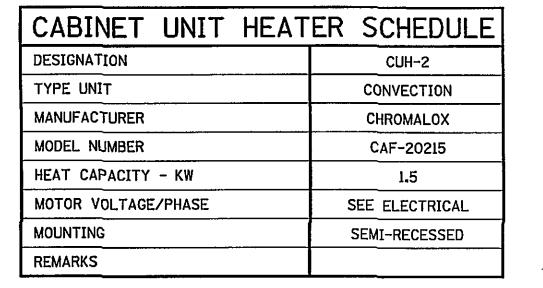


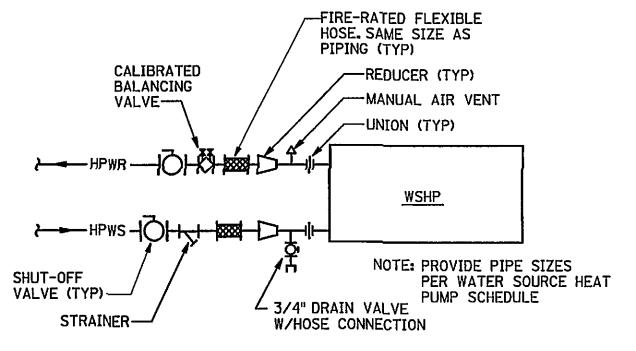
NOTES: 1. FIRE DAMPERS SHALL BE TYPE B AND HAVE A MAXIMUM AIR VELOCITY AND STATIC PRESSURE RATING SUITABLE FOR USE IN THE INSTALLED AIR SYSTEM. FIRE DAMPERS SHALL BE UL-555 LISTED. PROVIDE ACCESS DOOR FOR INSPECTION OF FIRE DAMPER.

NEW WORK - SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

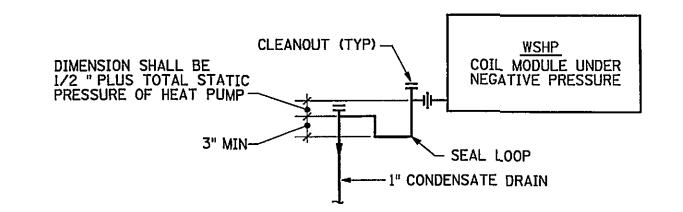






WSHP PIPING DETAIL

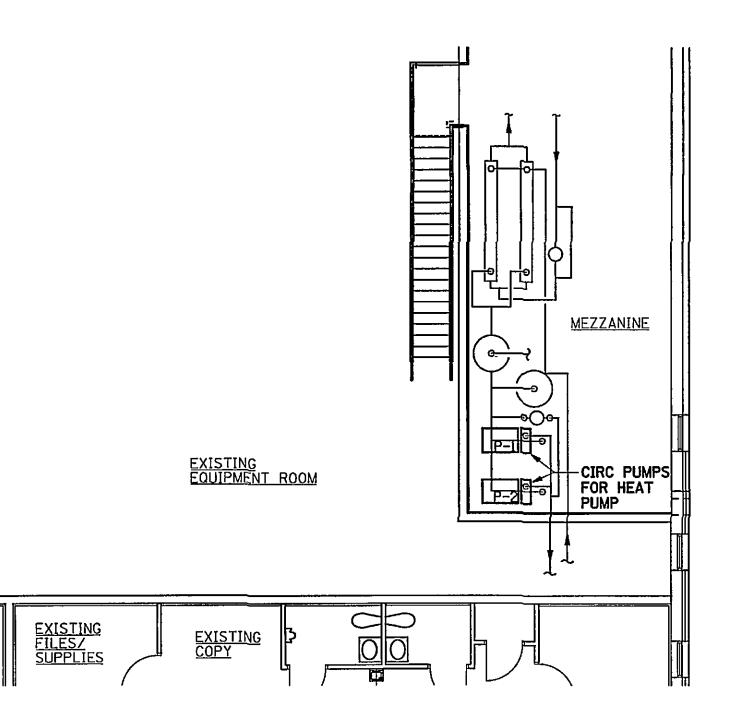
NOT TO SCALE



CONDENSATE DRAIN TRAP DETAIL

NOT TO SCALE

(FOR NEGATIVE PRESSURE COIL MODULE)



AIR DISTRIBUTION DEVICE SCHEDULE					
DESIGNATION	RG	CD			
DEVICE	RETURN GRILLE	CEILING DIFFUSER			
MANUFACTURER	ANEMOSTAT	ANEMOSTAT			
MODEL NO.	GC5L	EP-D			
TYPE	LAY-IN	HORIZ. AIR PATTERN, LAY-IN			
NECK	SQUARE	ROUND			
CONSTRUCTION	ALUMINUM	STEEL			
REMARKS	STANDARD WHITE FINISH 1/2"×1/2"×1/2" GRID CORE	STANDARD WHITE FINISH WITH DIRECTIONAL TABS & OPPOSED BLADE DAMPER			

WATER SOURCE HEAT PUMP SCHI	EDULE
DESIGNATION	WSHP-5
ТҮРЕ	HORIZONTAL
MANUFACTURER	TRANE
MODEL NUMBER	GEHA 036
AIRFLOW - CFM	1300
EXTERNAL STATIC PRESSURE, IN.H20	0.69
FAN HP	1/2
TOTAL COOLING MBH	39.7
SENSIBLE COOLING MBH	30.4
HEAT OF REJECTION MBH	47.4
COOLING EAT, DB/WB DEG F	80.6/66.2
HEATING CAPACITY MBH	44.0
HEAT OF ABSORPTION MBH	34.2
WATER FLOW GPM	9.3
MAX WATER PD, FT HD	12.4
VOLTS/PHASE	SEE ELECTRICAL
HPWS PIPE SIZE - INCHES	1-1/4
HPWR PIPE SIZE - INCHES	1-1/4
DRAIN PIPE SIZE - INCHES	1
OUTSIDE AIR CFM	230
REMARKS	HIGH STATIC FAN PACKAGE

NOTES: 1. COOLING CAPACITY BASED UPON 64°F ENTERING WATER TEMPERATURE.

2. HEATING CAPACITY BASED UPON 50°F ENTERING WATER
TEMPERATURE AND 68°F ENTERING AIR TEMPERATURE.

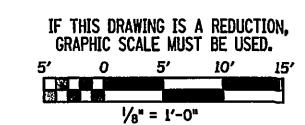
EXISTING PUMP SCHEDULE				
DESIGNATION	P-1	P-2		
LOCATION	MEZZANINE	MEZZANINE		
FUNCTION	HEAT PUMP LOOP	HEAT PUMP LOOP		
MANUFACTURER	B&G	B&G		
MODEL NUMBER	1510, 1/4AC	1510, 1/4AC		
TYPE	CENTRIFUGAL	CENTRIFUGAL		
CAPACITY - GPM	33	33		
DEVELOPED HEAD - FT H ₂ 0	50	50		
APPROX EFFICIENCY ~ PCT	53	53		
MOTOR HORSEPOWER	1.0	1.0		
MOTOR VOLTAGE/PHASE	460/3	460/3		
PUMP SPEED - RPM	1750	1750		
OUTLET DIAMETER - INCHES	1.25	1.25		
INLET DIAMETER - INCHES	1.5	1.5		
REMARKS				

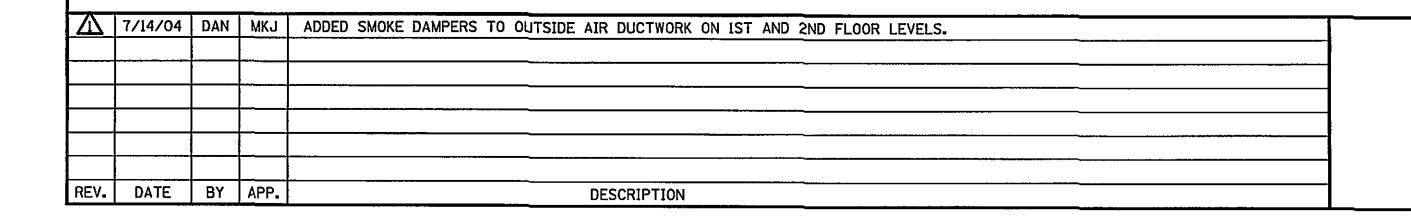
NOTES: 1. REPLACE EXISTING PUMP MOTORS TO BE AS INDICATED BY BOLD TYPE IN THIS SCHEDULE. EXISTING PUMPS ARE TO REUSED AND REBALANCED FOR NEW FLOWS.

PARTIAL SECOND FLOOR PLAN

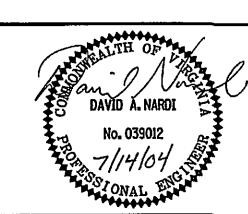
SCALE: 1/8" = 1'-0"











Wiley & Wilson ARCHITECTS ENGINEERS PLANNER	3377.1	CIV	7. 1
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	CADD 2040
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SIGNED DAN	DRAWN DAN	PROJECT	SPRING	WATER	TRE	ATM	ENT	PLA	NT
ECKED MJG	REVIEWED MJG	CRYSTAL SPRING WATER TREATMENT PLANT BUILDING MODIFICATION DESIGN CITY OF ROANOKE, VIRGINIA							
MM. NO. 04079.00		REFERENCE	ME	CHANI	CAL	•			
DD NO. 04079M2.DGN		TITLE NEW	WORK PLAN	S, SCHED	ULES	8	DETA	ILS	
TE JULY	14, 2004	DWG. NO. M	-2	SHEET NO.	6	0F	10	REV.	1