

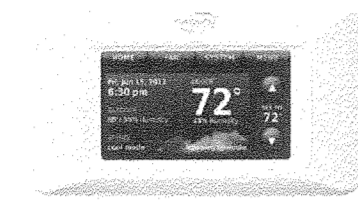


PRECISE COMMUNICATING CONTROL FOR RESIDENTIAL AND LIGHT COMMERCIAL APPLICATIONS

The ComfortNet™ brand touch-screen digital control works with both the "Amnu" brand and Goodman® brand commercial steady heating and cooling systems.

Standard Features

- Advanced modulation control
- Free zone balance mode
- Auxiliary zone lock-out
- Condensate fan speed high, medium, low
- Full color display
- Commercial, residential selection option
- On board dehumidification capability
- Humidifier control
- Humidifier type selection
- Wireless humidification system
- Wireless humidifier control
- Superior dehumidification control
- Multiple commercial dehumidification options
- Indoor temperature averaging
- Electric heating option
- Outdoor temperature display
- Outdoor humidity display (with humidifier)
- Wireless accessory capability
- Multiple digital inputs, outputs
- All filter maintenance reminders
- Humidifier and maintenance reminder
- Condensate backflow
- Electronic air cleaner maintenance reminder
- Temperature display adjustment
- Humidity display adjustment
- Temperature display "Hi" "Lo" "C"
- Max. Heat & Hum. coil set-point range
- Max. 2 zone temperature / humidity alerts



Features

- User interaction log (optional)
- Adaptive logic control
- Heat and cool coils with adjustable
- Energy management economy
- Inverter access
- Inverter speed control
- Customizable home screen
- Diagnostic lock-out screen
- Auto display dimming option
- Dealer information capability
- USB option (optional)

SPECIFICATIONS

	D5216 080LA	D5218 080LA	D5219 080LA	D5214 080LA
Capacitors and Fan Motors				
nominal cooling (BTU/h)	24,000	36,000	48,000	60,000
nominal heating (BTU/h)	24,000	36,000	48,000	60,000
compressor	7.5	11	14	17
RAA	11.7	13.3	15.2	18.8
LEA	23.3	23.6	23.6	23.8
Condensate Fan Motor				
Wattage	1.8	1.8	1.8	1.8
FLA	1.2	1.2	1.2	1.2
Refrigeration System				
Refrigerant Type	R410A	R410A	R410A	R410A
Liquid Line Size (1/2")	1/2"	3/4"	1"	1 1/4"
Suction Line Size (1/2")	1/2"	3/4"	1"	1 1/4"
Refrigerant Connection Size	1/2"	3/4"	1"	1 1/4"
Liquid Valve Size (1/2")	1/2"	3/4"	1"	1 1/4"
Suction Valve Size (1/2")	1/2"	3/4"	1"	1 1/4"
Valve Connection Type	SWEAT	SWEAT	SWEAT	SWEAT
Refrigerant Charge	153	203	263	275
Charge with oil-free oil	NA	NA	NA	NA
Electrical Data				
Volts 480	208/240-480	208/240-480	208/240-480	208/240-480
Minimum Circuit Ampacity ¹	15.8	23.9	31.7	37.2
Max. Overcurrent Protection ²	25	35	45	60
Min. Name Voltage	197/228	197/228	197/228	197/228
Rated Supply Circuit Size	17/24/30	17/24/30	17/24/30	17/24/30
Equipment Voltage	237	234	238	238
Short Circuit Current	220	248	180	158

¹ Select and install in accordance with NEC Handbook Table 310.15
² Wire size should be determined in accordance with National Electrical Code, and wire size will increase with size of load and the effect of ambient temperature of the application.
 * Always check the rating plate for electrical data as they will be subject to change.
 † Inverter will need to supply 1/2 to 2/3 capacity for entire line operation.
 ‡ Oil is charged with refrigerant at 1/4" Hg. vacuum. Subsequent must be adjusted per installation.
 ††† Minimum Full Charge Pressure.
 †††† Maximum of 1000 psi. The specified TVS to be installed on the indoor coil. THE SPECIFIED TVS IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL.

SPECIFICATIONS

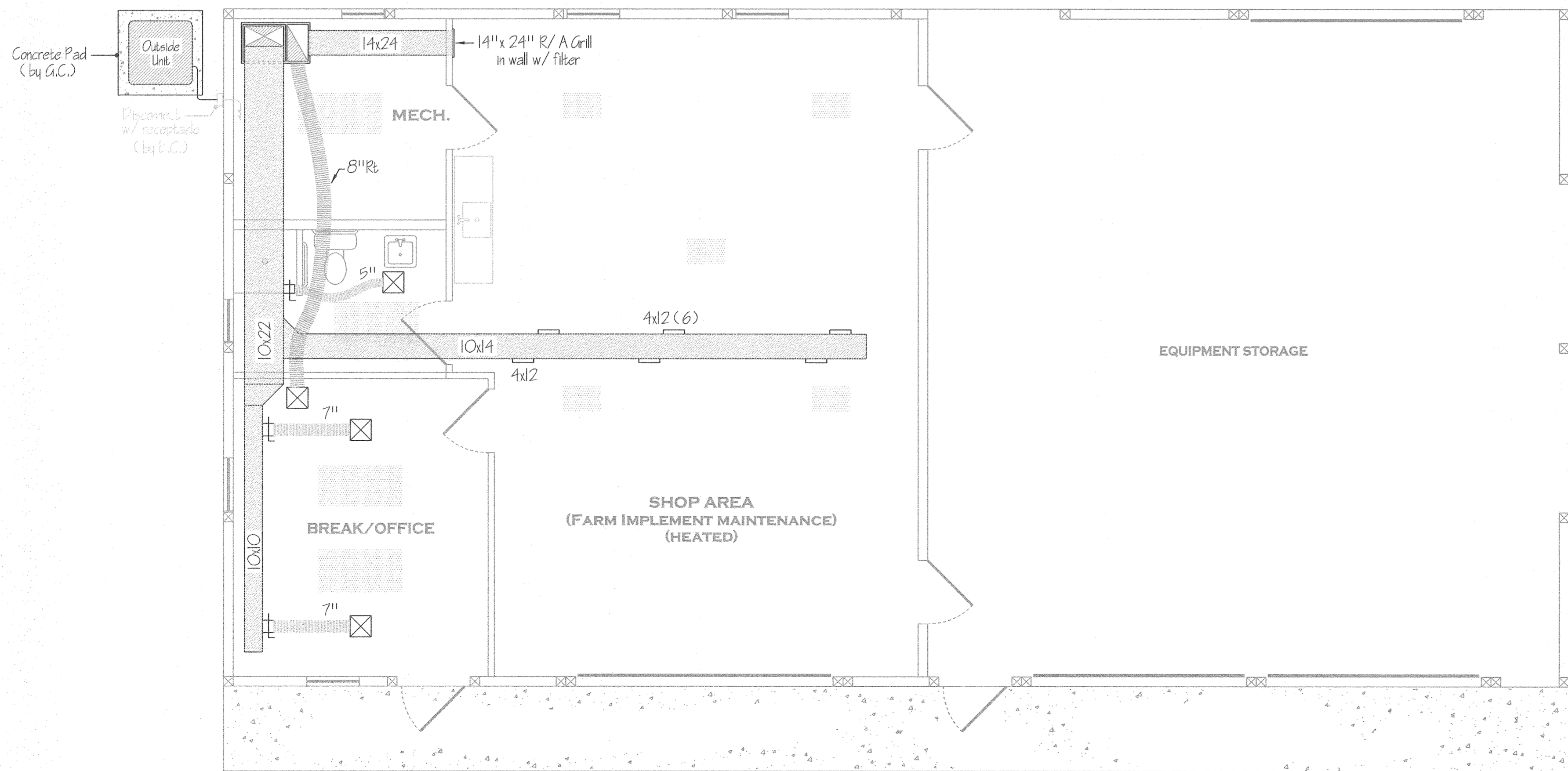
	AVPFC 183014	AVPFC 313174	AVPFC 420214
Nominal Rating			
Cooling (BTU/h)	18,000-30,000	30,000-36,000	42,000-60,000
CFM (High/Low)	1,200/600	1,200/600	1,800/1,200
Blower			
Diameter	9 1/2"	10 1/2"	12 1/2"
Width	8"	10 1/2"	12 1/2"
Coil Drain Connection FPT	1/2"	1/2"	1/2"
Service Valve			
Liquid	1/2"	1/2"	1/2"
Suction	1/2"	1/2"	1/2"
Electrical Data			
Voltage	208/240	208/240	208/240
Electric Heat Capacity (kW)	3, 5, 8, 10	3, 5, 6, 8, 10, 15	3, 5, 6, 8, 10, 15, 20
Min Circuit Ampacity	4.9/6.9	6.5/8.5	8.6/8.6
Max. Overcurrent Device (amps)	15/15	15/15	15/15
Minimum VAC	157	157	157
Maximum VAC	253	253	253
Blower Motor			
FLA	3.9	5.2	6.9
HP	1/2	1/2	1
Shut Warrant (lbs)	127	178	157

NOTE:

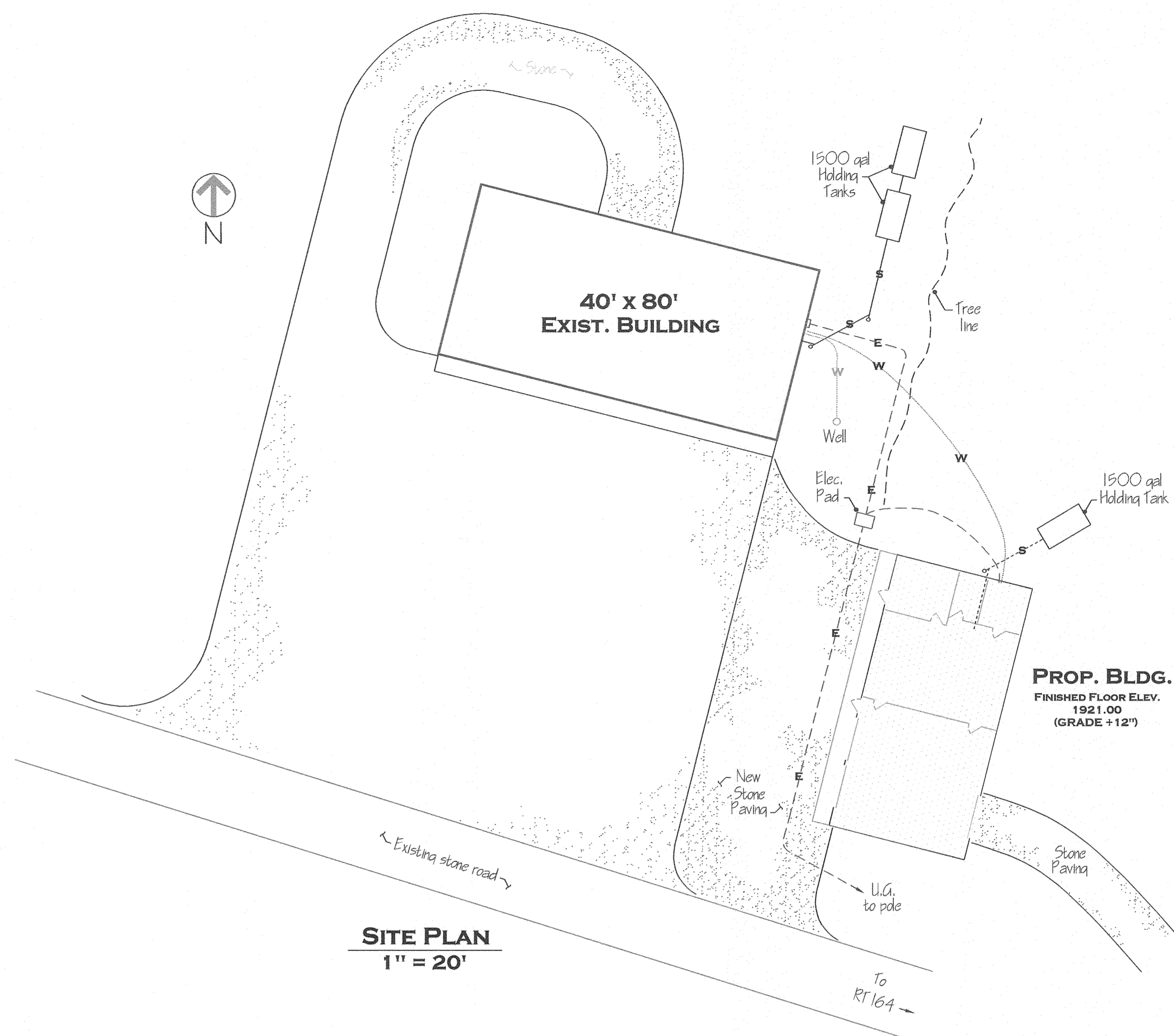
LAYOUT OF DUCTS, DUCT SIZES AND DIFFUSERS ARE MEANT TO BE USED AS A GUIDELINE. ACTUAL RUNS, SIZES AND LOCATIONS TO BE DETERMINED BY MANUFACTURERS MODEL. THE FOLLOWING STEPS SHOULD BE FOLLOWED IN THE DESIGN AND INSTALLATION OF THE HVAC SYSTEM TO ENSURE EFFICIENCY AND COMFORT.

1. DETERMINE ROOM-BY-ROOM AND AIR-FLOWS USING ACCA MANUAL J CALCULATION PROCEDURES. (OR SUBSTANTIALLY EQUIVALENT)
2. SIZE DUCT SYSTEM ACCORDING TO ACCA MANUAL D CALCULATION PROCEDURES. (OR SUBSTANTIALLY EQUIVALENT)
3. SIZE HVAC EQUIPMENT TO SENSIBLE LOAD USING ACCA MANUAL S CALCULATION PROCEDURES (OR SUBSTANTIALLY EQUIVALENT).
4. INSTALL EQUIPMENT & DUCTS ACCORDING TO DESIGN SPECIFICATIONS USING INSTALLATION REQUIREMENTS AND PROCEDURES FROM SMACNA AND MANUFACTURERS' SPECIFICATIONS.
5. INSTALL SO STATIC AIR PRESSURE DROP ACROSS THE AIR HANDLER IS WITHIN MANUFACTURER AND DESIGN SPECIFICATIONS.
6. PROVIDE BALANCED AIR FLOWS BETWEEN SUPPLY AND RETURN SYSTEMS TO MAINTAIN NEUTRAL PRESSURE.
7. EQUIPMENT AND ASSOCIATED ITEMS MUST BE APPROVED BY PGC HARRISBURG ENGINEERING DIVISION BEFORE START OF INSTALLATION.

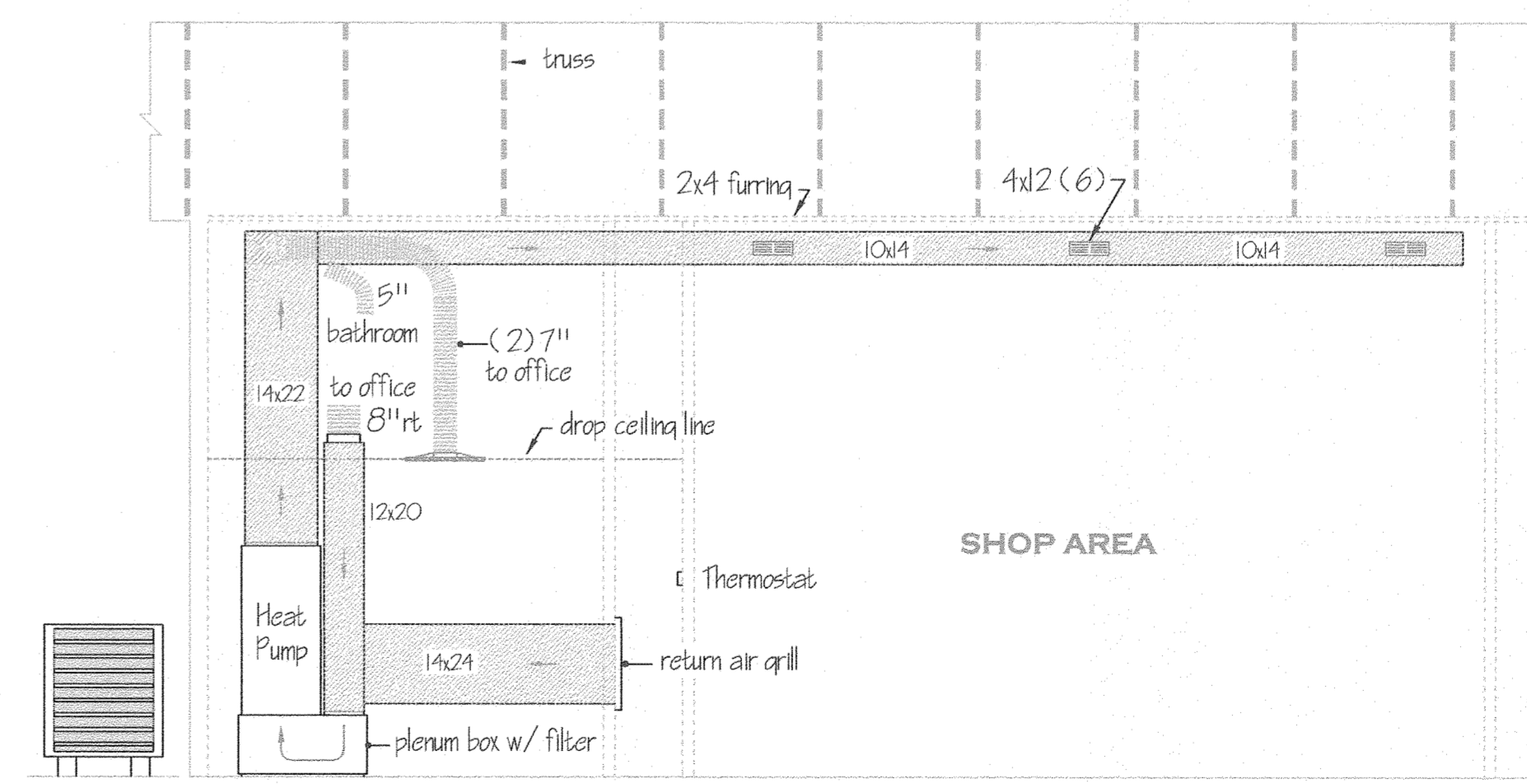
HEAT PUMP TO BE A GOODMAN 3 TON D52C1G OUTSIDE CONDENSER WITH MATCHED INDOOR AIR HANDLER / COIL TO ACHIEVE A MINIMUM 16 SEER AND 9.5 HSPF (OR SUBSTANTIALLY EQUIVALENT). OUTSIDE UNIT TO HAVE A TWO STAGE SCROLL COMPRESSOR AND MATCHED TO INSIDE UNIT W/ VARIABLE SPEED MOTOR TO PROVIDE OPTIMUM EFFICIENCY.



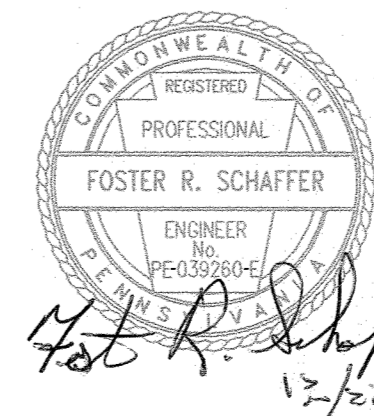
PLAN VIEW
SCALE: 1/4" = 1'-0"



SITE PLAN
1" = 20'



HVAC PLAN
SCALE: 1/4" = 1'-0"



PENNSYLVANIA GAME COMMISSION		
STATE GAME LANDS 073	N. WOODBURY TWP.	BLAIR CO.
HVAC DETAILS and SITE PLAN		
REVISIONS		PROJECT NO. PGC-073-18-1
▲		DRAWING NO. 073-HVAC-5
▲		DRAWN BY: JPM
▲		DATE: 12-24-18
▲		SHEET NO. 5 OF 5