

⑤ HVAC CONTROLS AND BAS POINTS
NTS

BAS SEQUENCES OF OPERATION

NEW DDC CONTROLLER WILL MODULATE FAN SPEED (ANALOG OUTPUT TO VARIABLE SPEED DRIVE) TO MAINTAIN DUCT STATIC PRESSURE SETPOINT AS SENSED BY NEW STATIC PRESSURE SENSOR INSTALLED IN THE EXHAUST DUCTWORK AS SHOWN IN THE DIAGRAM ABOVE.

DDC CONTROLLER WILL MONITOR (AND SHARE WITH EXISTING BAS) DUCT STATIC (ANALOG INPUT), FILTER DP, AND VSD ALARM STATUS.


DDC CONTROLLER TO BE NETWORKED WITH EXISTING BAS. PROGRAMMING AND GRAPHICS TO BE UPDATED AT EXISTING FRONT ENDS.

GENERAL NOTES

- Measurements/locations are approximate and shall be verified by the Contractor. VA will not be held responsible for any error or variation in any measurements or other data listed.
- Existing ductwork and equipment has been in service for infectious isolation area. Appropriate PPE and safety procedures required.
- ICRA (infection control risk assessment) required prior to starting any work. Follow all ICRA requirements including (but not limited to) providing negative air for work area and bagging debris prior to removal from work area.

SHEET NOTES

- NEW 12" DIA. MEDIUM PRESSURE DUCTWORK.
- NEW HEPA FILTER HOUSING (MERV 8 PRE FILTER, MERV 17 FINAL FILTER).
- VARIABLE SPEED DRIVE (VSD) CONTROL POINTS. ANALOG OUTPUT (AO FROM DDC CONTROLLER) IS FAN SPEED SIGNAL. BINARY INPUT TO DDC IS VSD ALARM (BI).
- INSTALL NEW DUCT STATIC PRESSURE SENSOR IN DUCT WORK. SENSOR TO HAVE LCD READOUT. DUCT STATIC PROVIDES CONTROL INPUT TO DDC FOR FAN SPEED CONTROL. SETPOINT TO BE DETERMINED IN CONJUNCTION WITH TAB.
- INSTALL NEW DIFFERENTIAL PRESSUREC PRESSURE SENSOR IN DUCT WORK AS SHOWN. SENSOR TO HAVE LCD READOUT. DP PROVIDES FEEDBACK FOR MONITORING FILTER LOADING. ALARM SETPOINT TO BE DETERMINED BASED ON FILTER SUBMITTALS.

		Approved: Medical Center Facility Manager	Project Title UPGRADE EXH SYS 247-01		Drawing Title HVAC CONTROLS, BAS		Project Number 564-16-TBD		 Engineering Service Department of Veterans Affairs	
		Approved: Engineering Service Chief	Measures one inch or not to scale!		Location VAMC - Fayetteville, AR		Building Number ONE (01)			
Notes and/or Revisions:			Scale: NTS		Drawing Number M-3					
Date			Checked ENG		Drawn ENG		Date 21 JUN 16			
			0 1"		Sheet 4 of 5					