

<b>REVISIONS</b>		
<b>NO.</b>	<b>DESCRIPTION</b>	<b>DATE</b>



THE UNIVERSITY  
of NORTH CAROLINA  
at CHAPEL HILL



The University of North Carolina  
Chapel Hill, North Carolina

---

Standard Control Drawings

Eng	RR
Drum	BMW
Child	---
Abod	---
Issued	6/15/2012
Job No.	---
Scots	N/A
Prod Code	

REV. 6

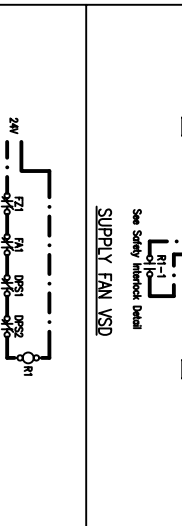
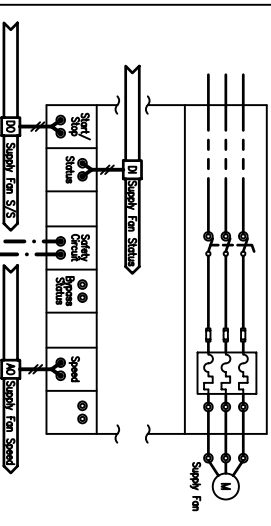
**SINGLE DUCT  
VAV AH WITH  
PREHEAT &  
CHW COIL, MIN  
OA DAMPER,  
NO RETURN  
FAN**

00 OF 00  
.....  
SHEET NUMBER

C-1.02

POINTS LIST						
ADDRESS	POINT DESCRIPTION	POINT TYPE				REMARKS
		DI	AI	AO	W	
	Supply Fan S/S		*			
	Supply Fan Status			*		See Note 1
	Supply Fan Speed					
	DD Stole Press		*			
	Supply Temp		*			
	Supply Ht Static		*			
	Supply Lo Static		*			
	PH Coil DAI		*			
	Freezestat		*			
	Mixed Air Temp		*			
	Return Air Temp		*			
	CHW Valve		*			
	CHRW Temp		*			See Note 4
	HW Valve		*			
	Che Pump S/S		*			See Note 6
	Che Pump Status		*			See Note 8
	Economizer					
	Min OA Flow		*			
	Smoke/Fire Alarm	*				
	VFD Alarm/Fault		*			Interlock Point
	VFD Fault Cable		*			Interlock Point
	VFD Spd Feedback		*			Interlock Point
	VFD RV		*			Interlock Point
	VFD In Bypass		*			Interlock Point

LOGIC VARIABLES	
BINARY	ANALOG
DOG	DESCRIPTION ON WHEN OCCUPIED MODE ACTIVE
KLIN	ON WHEN UNIT COMMENCED TO START
SGO	ON WHEN SUPPLY FAN DEREGULATED AND STATUS PROVEN
IMAGO	ON WHEN OA COORDINATE ALLOW ECONOMIZER CONTROL
HIPR	ON WHEN DISCHARGE HIGH PRESSURE SWITCH IS IN ALARM
LOPR	ON WHEN Suction LOW PRESSURE SWITCH IS IN ALARM
FRZ	ON WHEN FREEZE/STST IS IN ALARM
FRZ	ON WHEN FREE ALARM IS ACTIVE
FRZ	ON WHEN FREE ALARM IS ACTIVE
SEFTY	ON WHEN SHUTDOWN SAFETY IS ON
HSST	VARIABLE OBTAINED VALUE OF HIGHEST SPACE TEMPERATURE
OA1	VARIABLE VALUE OF OUTSIDE AIR TEMPERATURE
SA1	VARIABLE VALUE OF SUPPLY AIR TEMPERATURE
PH1	VARIABLE VALUE OF PREHEAT AIR TEMPERATURE
LA1	VARIABLE VALUE OF WIND AIR TEMPERATURE
DSST	VARIABLE OBTAINED VALUE OF DISCHARGE TEMPERATURE SETPOINT
GOCD	VARIABLE OBTAINED VALUE OF CHW VALVE POSITION
HECD	VARIABLE OBTAINED VALUE OF HW VALVE POSITION
EPCD	VARIABLE OBTAINED VALUE OF ECONOMIZER PID OUTPUT
MINOA	VARIABLE OBTAINED VALUE OF MINIMUM OA DRYBULB POSITION



### SAFETY INTERLOCK DETAIL

2008 FACULTY DYNAMICS ENGINEERING