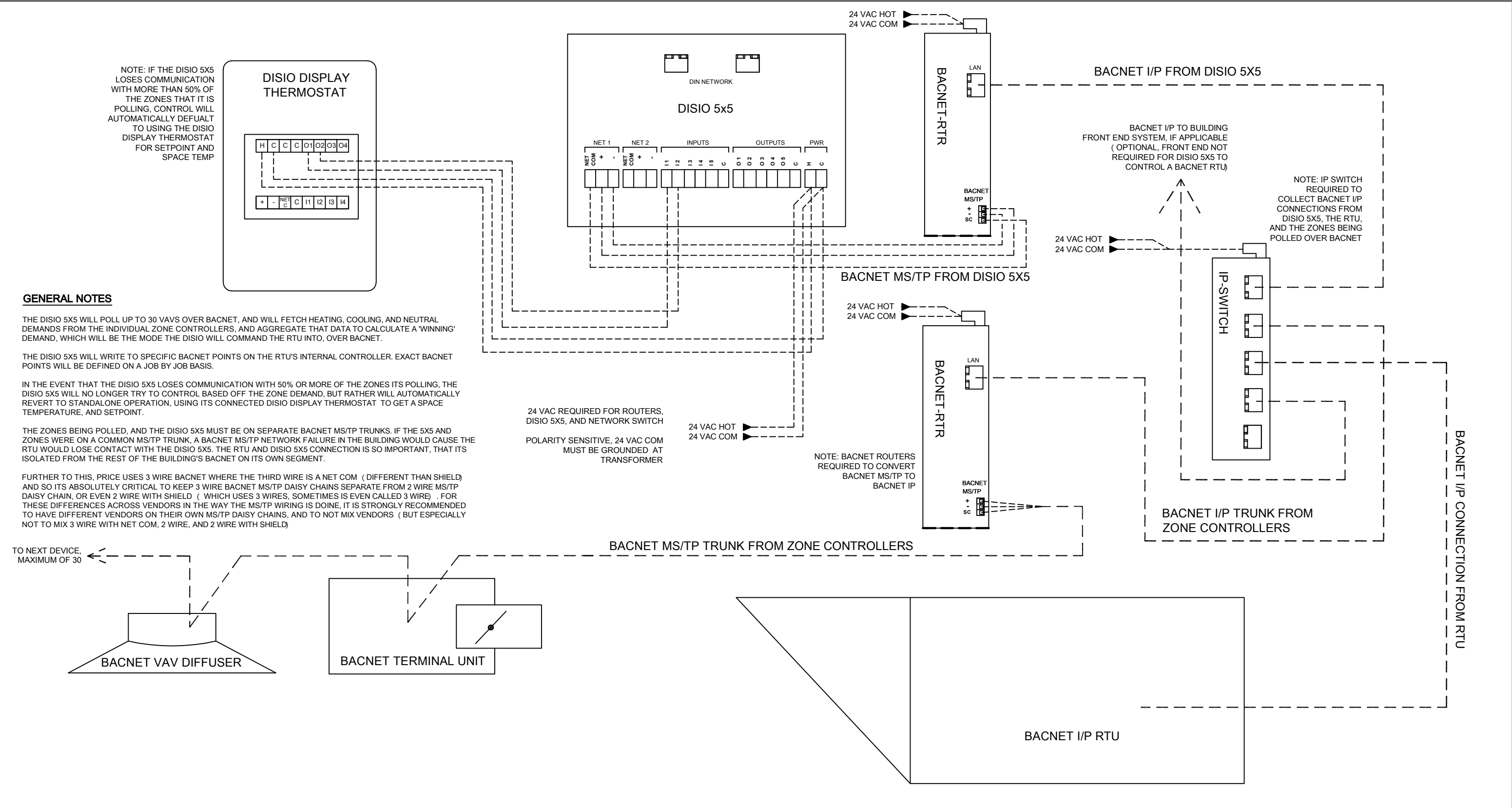




GENERAL NOTES

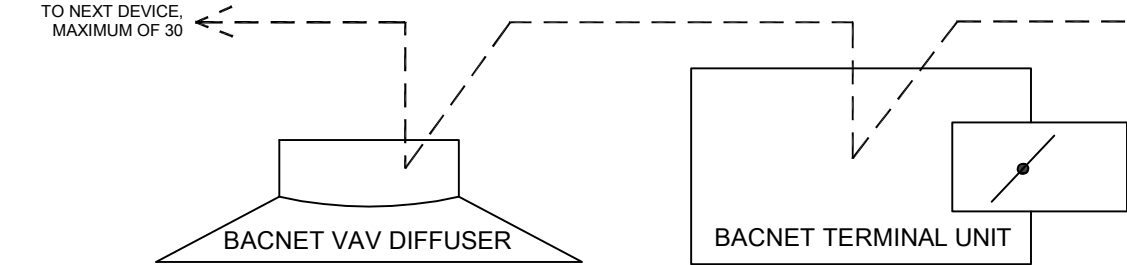
THE DISIO 5X5 WILL POLL UP TO 30 VAVS OVER BACNET, AND WILL FETCH HEATING, COOLING, AND NEUTRAL DEMANDS FROM THE INDIVIDUAL ZONE CONTROLLERS, AND AGGREGATE THAT DATA TO CALCULATE A 'WINNING' DEMAND, WHICH WILL BE THE MODE THE DISIO WILL COMMAND THE RTU INTO, OVER BACNET.

THE DISIO 5X5 WILL WRITE TO SPECIFIC BACNET POINTS ON THE RTU'S INTERNAL CONTROLLER. EXACT BACNET POINTS WILL BE DEFINED ON A JOB BY JOB BASIS.

IN THE EVENT THAT THE DISIO 5X5 LOSES COMMUNICATION WITH 50% OR MORE OF THE ZONES ITS POLLING, THE DISIO 5X5 WILL NO LONGER TRY TO CONTROL BASED OFF THE ZONE DEMAND, BUT RATHER WILL AUTOMATICALLY REVERT TO STANDALONE OPERATION, USING ITS CONNECTED DISIO DISPLAY THERMOSTAT TO GET A SPACE TEMPERATURE, AND SETPOINT.

THE ZONES BEING POLLED, AND THE DISIO 5X5 MUST BE ON SEPARATE BACNET MS/TP TRUNKS. IF THE 5X5 AND ZONES WERE ON A COMMON MS/TP TRUNK, A BACNET MS/TP NETWORK FAILURE IN THE BUILDING WOULD CAUSE THE RTU WOULD LOSE CONTACT WITH THE DISIO 5X5. THE RTU AND DISIO 5X5 CONNECTION IS SO IMPORTANT, THAT ITS ISOLATED FROM THE REST OF THE BUILDING'S BACNET ON ITS OWN SEGMENT.

FURTHER TO THIS, PRICE USES 3 WIRE BACNET WHERE THE THIRD WIRE IS A NET COM (DIFFERENT THAN SHIELD) AND SO ITS ABSOLUTELY CRITICAL TO KEEP 3 WIRE BACNET MS/TP DAISY CHAINS SEPARATE FROM 2 WIRE MS/TP DAISY CHAIN, OR EVEN 2 WIRE WITH SHIELD (WHICH USES 3 WIRES, SOMETIMES IS EVEN CALLED 3 WIRE). FOR THESE DIFFERENCES ACROSS VENDORS IN THE WAY THE MS/TP WIRING IS DOINE, IT IS STRONGLY RECOMMENDED TO HAVE DIFFERENT VENDORS ON THEIR OWN MS/TP DAISY CHAINS, AND TO NOT MIX VENDORS (BUT ESPECIALLY NOT TO MIX 3 WIRE WITH NET COM, 2 WIRE, AND 2 WIRE WITH SHIELD).



PROJECT:		price®	
ENGINEER:			DISIO 5X5 BACNET ZONE POLLING AND BACNET CONTROL OF RTU WIRING LAYOUT
CUSTOMER:		CXY30552	
SUBMITTAL DATE:	SPEC. SYMBOL:	2026/07/30	