1. **BUILDING AUTOMATION SYSTEM (BAS) INSTALLER SHALL FURNISH AND INSTALL A DIRECT DIGITAL CONTROL BAS THAT CONNECTS TO THE EXISTING BAS FRONT-END.** THE SAME BAS MANUFACTURER SHALL BE SPECIFICALLY ALLOW EXISTING MATERIALS TO REMAIN IN PLACE.

2. **BAS INSTALLER SHALL FURNISH AND INSTALL ANY POWER SUPPLY SURGE PROTECTION, DEVICES TO PERFORM CONTROL SEQUENCES AND FUNCTIONS SPECIFIED.** REFER ALSO TO CONTROL DRAWINGS, SEQUENCES OF OPERATION, AND POINT LISTS ELSEWHERE IN THE CONTRACT DOCUMENTS.

3. **A NETWORK DIAGRAM SHALL BE PROVIDED FOR EACH PROJECT, INDICATING THE LOCATION OF EACH NODE AND THE EQUIPMENT IT SERVES.** THIS DIAGRAM SHOULD INCLUDE ALL BAS MODULES, AS WELL AS ANY NETWORK DEVICES SUCH AS GATEWAYS, EMERGENCY POWER CIRCUIT SERVICES DEPARTMENT. WIRE NUTS ARE NOT ACCEPTABLE. A WIRE CONNECTOR WITH A CLAMPING MECHANISM MAY BE USED WITHIN 36 INCHES OF AN END DEVICE AND WHERE

4. **RECORD DOCUMENTS SHALL INCLUDE EQUIPMENT SCHEDULES DETAILING THE SPECIFICATION AND APPLICATION OF CONTROL VALVES, CONTROL DAMPERS AND ANY APPLICATION TYPE JACKET.**

5. **A CENTRAL ONLINE UPS MAY BE USED IN PLACE OF INDIVIDUAL UPS’S FOR BAS EQUIPMENT SERVED AND THE TYPE APPLICABLE.**

6. **BACNET Device:**

7. **SWITCH TO ISOLATE ONLY CONTROL TRANSFORMERS. BASIS OF DESIGN IS MAGNECRAFT 78X SERIES.**

8. **Due to more than 98 addresses are needed for the separate network, Access to usable network address may be required additional space. Access to the free.The additional address will be allocated.**

9. **PERMANENT TRANSMITTER**

10. **CONTROLS INSTALLER SHALL PROVIDE UNIVERSITY WITH ALL PRODUCT LINE TECHNICAL MANUALS AND TECHNICAL BULLETINS, TO INCLUDE NEW AND UPGRADED PRODUCTS, BY THE SAME DISTRIBUTION UNIVERSITY.**

**NOTES:**

- **In the event that more than 98 addresses are needed for a particular network, the next available network address may be reserved for additional space. However, in that case, the additional network number will not be marked as “ALARM”**

- **PLEASE CONTACT THE AUTOMATION SERVICES DEPARTMENT FOR NEXT AVAILABLE BACNET ADDRESS.**

- **UNIVERSITY IP ADDRESSES SHALL BE REQUESTED THROUGH AUTOMATION SERVICES.**