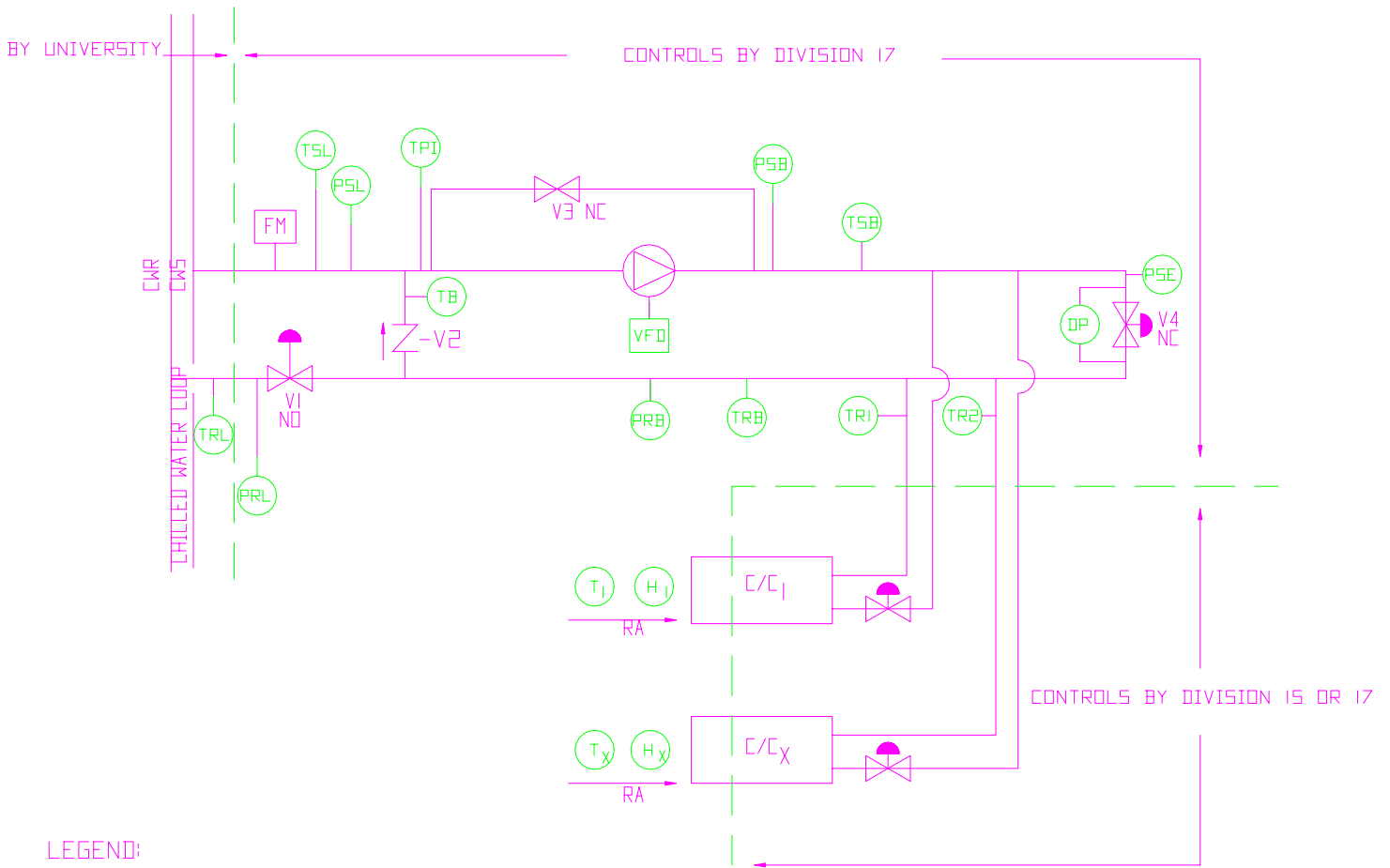


MINIMUM REQUIREMENTS FOR BUILDING CHILLED WATER PUMP CONTROL



LEGEND:

- TSL SUPPLY FROM LOOP TEMPERATURE SENSOR
- TRL RETURN TO LOOP TEMPERATURE SENSOR
- TSB SUPPLY TO BUILDING TEMPERATURE SENSOR
- TSR RETURN FROM BUILDING TEMPERATURE SENSOR
- TB BRIDGE TEMPERATURE SENSOR
- TPI PUMP INLET TEMPERATURE SENSOR
- TR I - TR X RETURN FROM COIL TEMPERATURE SENSOR
- T I - T X RETURN AIR TEMPERATURE SENSOR
- H I - H X RETURN AIR HUMIDITY SENSOR
- V1 AND V4 MODULATING CONTROL VALVES
- V2 CHECK VALVE
- V3 2 POSITION VALVE-IN CRITICAL SPACES THIS MAY BE REPLACED WITH A BACK-UP PUMP
- FM FLOW METER
- C/C COOLING COIL
- NO NORMALLY OPEN
- NC NORMALLY CLOSED
- PSL LOOP SUPPLY PRESSURE
- PSB BUILDING SUPPLY PRESSURE
- PRB BUILDING RETURN PRESSURE
- PRL LOOP RETURN PRESSURE
- PSE END OF LINE PRESSURE SENSOR
- DP END OF LINE DIFFERENTIAL PRESSURE SENSOR
- VFD VARIABLE REFREQUENCY DRIVE

NOTE:

ISOLATION & SHUTOFF VALVES OMITTED FOR CLARITY
 QUANTITY & LOCATION OF RETURN AIR TEMP. & HUMIDITY
 SENSORS TO BE DETERMINED ON A CASE BY CASE BASIS
 CONSULT WITH U. VA. UTILITIES DIRECTOR.
 PROVIDE THERMOMETERS BY ALL TEMPERATURE SENSORS
 PROVIDE PRESSURE GAUGES BY ALL PRESSURE SENSORS