CHILLED WATER SYSTEM INPUT / OUTPUT SUMMARY

<table>
<thead>
<tr>
<th>POINT NO.</th>
<th>IO SYSTEM TYPE</th>
<th>IO POINT DESCRIPTION</th>
<th>POINT DESCRIPTION</th>
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<td>FIXED/REMOVABLE</td>
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<td>PRESSURE GAUGE (TYP)</td>
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<td>THERMOMETER (TYP)</td>
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<td>STRAINER (TYP)</td>
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<td>1</td>
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<td>EXTERIOR WALL</td>
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<tr>
<td>2</td>
<td></td>
<td>CAMPUS CHILLED WATER SUPPLY</td>
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<tr>
<td>3</td>
<td></td>
<td>CAMPUS CHILLED WATER RETURN</td>
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<td>4</td>
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<td>BUILDING CHILLED WATER</td>
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<td>5</td>
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<td>BUILDING CHILLED WATER RETURN</td>
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<td>6</td>
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<td>CHILLED WATER ENERGY METER</td>
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</table>

DRAWING NOTES:

1. CHILLED WATER SYSTEM INPUT / OUTPUT SUMMARY
2. CHILLED WATER SYSTEM INPUT / OUTPUT SUMMARY
3. CHILLED WATER SYSTEM INPUT / OUTPUT SUMMARY

CHILLED WATER BRIDGE DETAIL

A full communication interface and complete interoperation with the existing campus JCI automatic temperature control system shall be provided to perform the functions herein described.

C. CHILLED WATER RETURN VALVE
   1. CAMPUS CHILLED WATER RETURN VALVE (V) shall be normally closed.
   2. CAMPUS CHILLED WATER RETURN VALVE (V) shall be modulated to maintain chilled water return temperature setpoint as seen by the controller.

D. ALARMS & FAILURE MODES
   1. CAMPUS CHILLED WATER RETURN VALVE (V) shall fail closed.

EXTERIOR WALL

CAMPUS CHILLED WATER SUPPLY

SLEEVED PENETRATION

HOSE END DRAIN VALVE (TYP)

PRESSURE GAUGE (TYP)

THERMOMETER

GUAGE (TYP)

CAMPUS CHILLED WATER RETURN

BUILDING CHILLED WATER RETURN

BUILDING CHILLED WATER SUPPLY

FLANGE (TYP)

BUTTERFLY VALVE (TYP)

CONE VALVE

CHILLED WATER ENERGY METER

CHILLED WATER BRIDGE DETAIL

A. SEE DIMENSIONS FOR LOCATIONS OF ALL TEMPERATURE TRANSMITTERS, PANELS, VALVES, AND EQUIPMENT. SCALES SUCH DEVICES ARE NOT SHOWN. HOWEVER REQUIRED BY THE SEQUENCE, SHALL BE PROVIDED BY THE CONTRACTOR.

B. A FULL COMMUNICATION INTERFACE AND COMPLETE INTEROPERABILITY WITH THE EXISTING CAMPUS JCI AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED TO PERFORM THE FUNCTIONS HEREIN DESCRIBED.

C. CHILLED WATER RETURN VALVE
   1. CAMPUS CHILLED WATER RETURN VALVE (V) shall be normally closed.
   2. CAMPUS CHILLED WATER RETURN VALVE (V) shall be modulated to maintain chilled water return temperature setpoint as seen by the controller.

D. ALARMS & FAILURE MODES
   1. CAMPUS CHILLED WATER RETURN VALVE (V) shall fail closed.

SEQUENCE OF OPERATIONS

A. SEE SCHEMATIC FOR LOCATIONS OF ALL TEMPERATURE TRANSMITTERS, PANELS, VALVES, AND EQUIPMENT; WHERE SUCH DEVICES ARE NOT INDICATED, HOWEVER REQUIRED BY THE SEQUENCE, SHALL BE PROVIDED BY THE CONTRACTOR.

B. A FULL COMMUNICATION INTERFACE AND COMPLETE INTEROPERABILITY WITH THE EXISTING CAMPUS JCI AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED TO PERFORM THE FUNCTIONS HEREIN DESCRIBED.

C. CHILLED WATER RETURN VALVE
   1. CAMPUS CHILLED WATER RETURN VALVE (V) shall be normally closed.
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   1. CAMPUS CHILLED WATER RETURN VALVE (V) shall fail closed.