CHILLED WATER SERVICE — BUILDING ENTRANCE PIPING DIAGRAM

DRAWING NOTES:
A. PIPING DIAGRAM IS PROVIDED TO DESIGN ENGINEER AS BASIS OF DESIGN. ENGINEER IS SOLELY RESPONSIBLE FOR FINAL DESIGN. ENGINEER SHOULD MODIFY DESIGN AS REQUIRED TO MEET SPECIFIC PROJECT REQUIREMENTS. DEVIATIONS FROM STANDARD DIAGRAM SHOULD BE COMMUNICATED TO PSU IN WRITTEN FORM FOR REVIEW AND APPROVAL.
B. VALUES, GAUGES, SENSORS, ETC ARE SHOWN TO PROVIDE AN OVERALL REPRESENTATION OF SYSTEM EXPECTATION THAT FURTHER REQUIREMENTS ARE INDICATED ON RESPECTIVE DETAILS.
C. ADDITIONAL PUMPS MAY BE REQUIRED TO SUPPORT EXTREME PART LOAD CONDITIONS.
D. THE LOCATION OF HIGH PERFORMANCE (HP) BUTTERFLY ISOLATION VALVES, AND THE NUMBER OF ISOLATION VALVES MUST BE REVIEWED BY THE DESIGNER. VALVES SHOULD BE DELETED WHEN MULTIPLE VALVES ARE CLOSE TO EACH OTHER, OR ADDED WHERE NECESSARY TO PROVIDE ADEQUATE ISOLATION FOR FUTURE MAINTENANCE.
E. REFER TO GAS SPECIFICATIONS FOR THE SPECIFIC APPLICATIONS OF SENSOR TYPES AND PARTICULAR REQUIREMENTS.

KEYNOTES:
1. REQUIREMENTS FOR AIR/DIRT SEPARATOR ARE PROJECT SPECIFIC.
CONTACT GLENN LELKO (GAL@PSU.EDU)
2. PROVIDE 3 PIPE DIAMETERS UPSTREAM AND 2 Pipe DIAMETERS DOWNSTREAM OF METER.
3. CHECK VALVE ALLOWS FOR CWP-1/2 RECIRCULATION AND PREVENTS BYPASS FLOW FROM CAMPUS CHWS TO CHWR.
4. FOR END SUCTION PUMPS, STRAINER PROVIDED AT PUMP WITH SUCTION DIFFUSER. FOR OTHER PUMPS, PROVIDE PIPING STRAINERS. IN ALL CASES PROVIDE ONLY ONE STRAINER.
5. CHECK VALVE ALLOWS FOR PUMP BYPASS AND USE OF CAMPUS PRESSURE ONLY TO SERVE BUILDING LOADS.

CAMPUS CHILLED WATER SYSTEM
STANDARD DETAIL #1

DATE: 2/4/12 SCALE: NONE DRAWN BY: CHECKED BY: gal8 SK-1 1 of 1