

OTHER BUILDING PEAK HEATING AND COOLING LOADS:

TOTAL RESIDENCES:  
H: 16,916 KBTU/HR  
C: 7,741 KBTU/HR  
H: 1,128 GPM  
C: 968 GPM

LINKS (HEATING ONLY):  
H: 84 KBTU/HR  
H: 6 GPM

ALL LOADS SHOWN ARE BASED UPON CALCULATED LOADS FOR BUILDINGS CURRENTLY IN DESIGN. THIS DATA IS FOR REFERENCE ONLY AND WILL BE REFINED AS THE DESIGN MATURES.

TOTAL CONNECTED LOAD FOR CAMPUS:  
H: 31,651 KBTU/HR  
C: 23,405 KBTU/HR

TOTAL CONNECTED LOAD GPM:  
H: 2,110 GPM  
C: 2,926 GPM

REV	DATE	DESCRIPTION	ISS
7	11.08.22	INFORMATION	JF
6	11.11.21	AFC REVIEW	EM
5	05.28.21	INFORMATION	EM
4	04.30.21	INFORMATION	EM
3	04.23.21	INFORMATION	LW
2	02.02.21	INFORMATION	JF
1	09.21.20	INFORMATION	JF

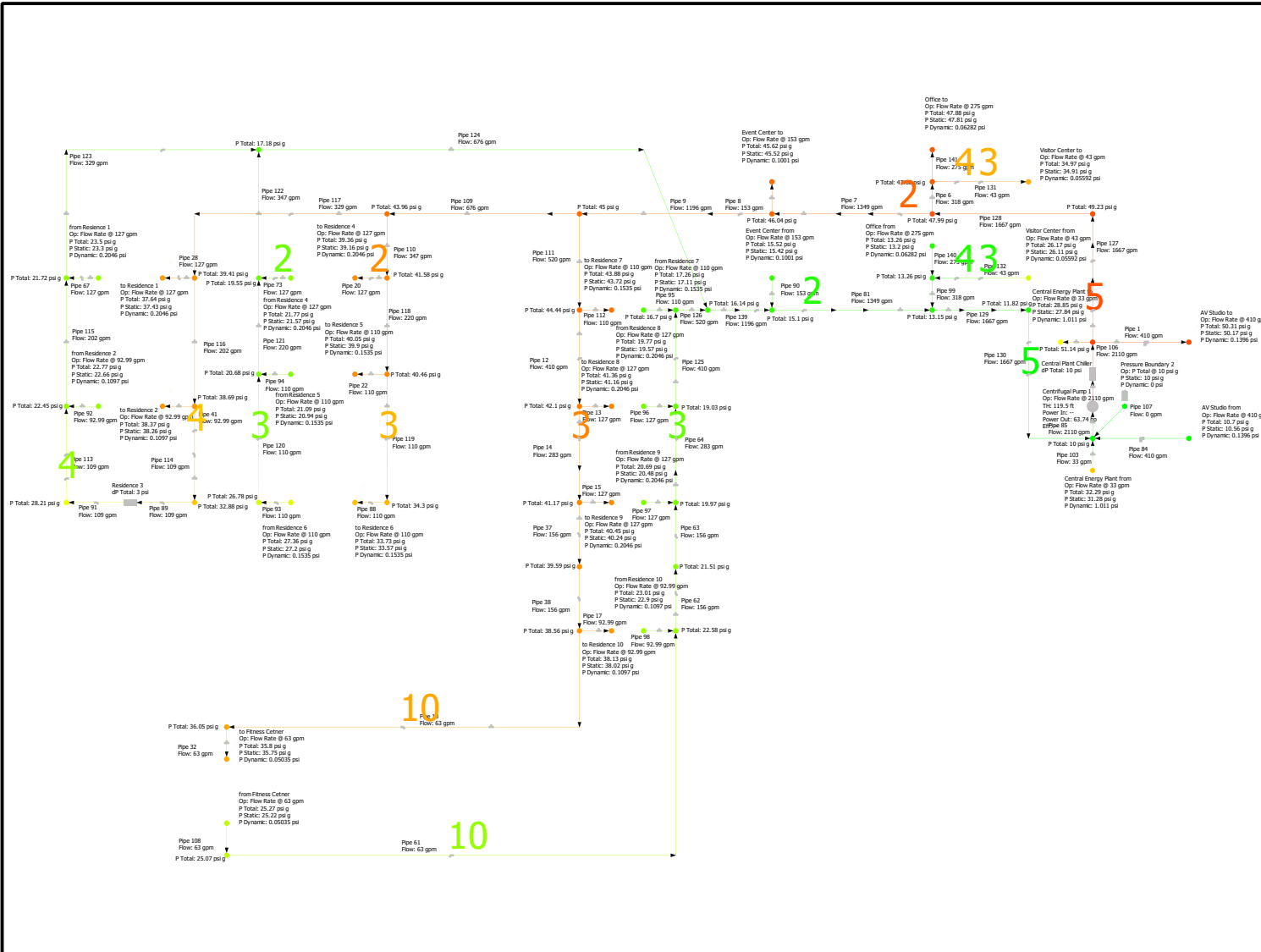
Title  
**CHILLED AND HOT WATER  
DISTRIBUTION SCHEMATIC**

Project  
**SITE WORKS**

Address  
**155 STERLING MINE ROAD  
SLOATSBURG, NY 10974**

Project no. **19001** Revision **P7**

Sheet **M-601**

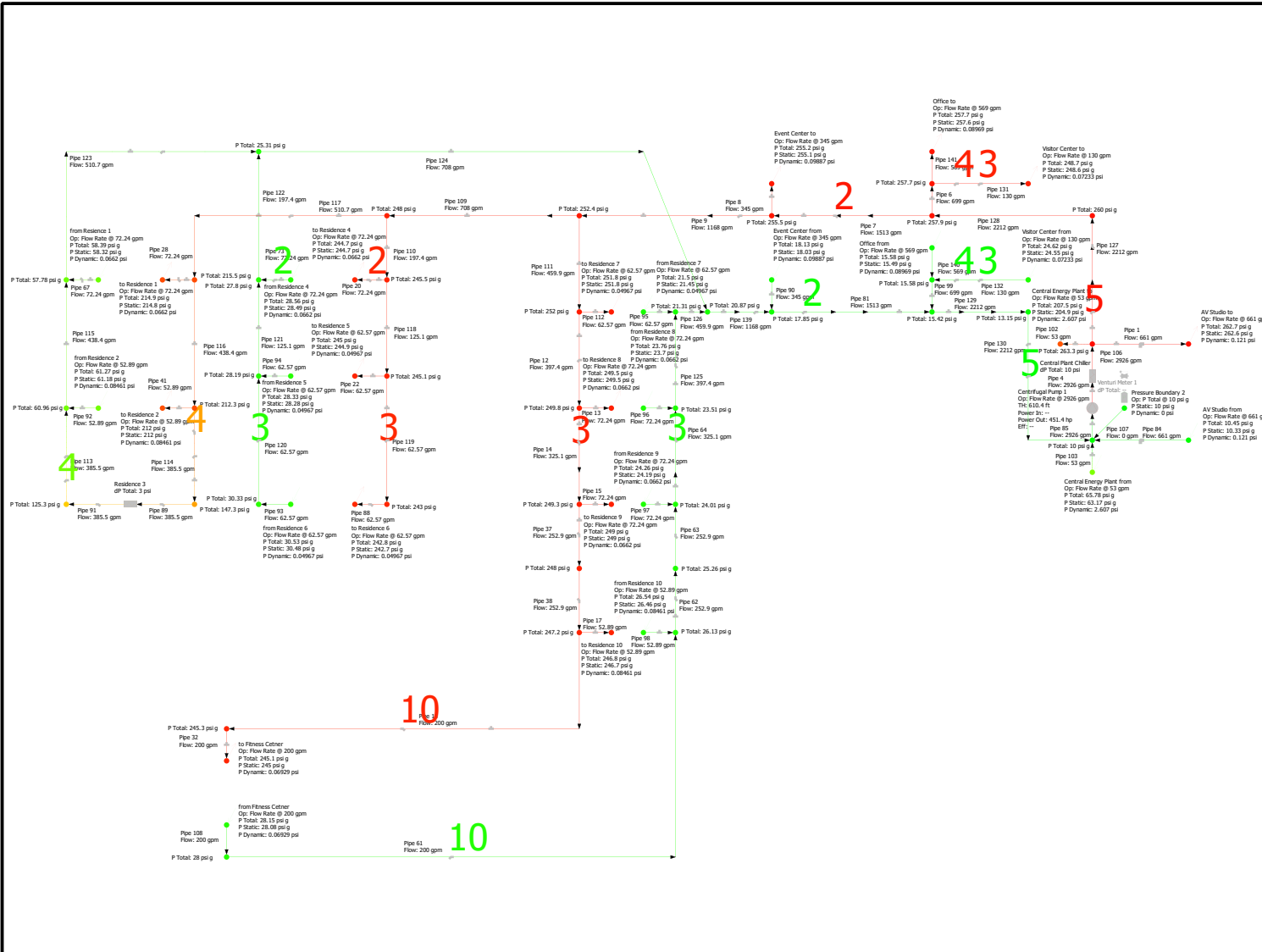


Color Gradient Criteria			
Pressure			
Range	Minimum	Maximum	Unit
Actual	9.71	61.52	psi g
Specified			
		61.52 psi g	
		48.57 psi g	
		35.62 psi g	
		22.67 psi g	
		9.714 psi g	

PIPE-FLO Professional	
Program Version:	18.0
Calculation Method:	Darcy-Weisbach
Maximum Iterations:	100
Percent Tolerance:	0.01 %
Laminar Cutoff Re:	2100
Allowable Deviation:	1%

Units			
Area:	ft <sup>2</sup>	Flow rate:	gpm
Length:	ft	Pressure:	psi
Elevation:	ft	Power:	hp
Diameter:	in	Temperature:	°F
Velocity:	ft/s	Density:	lb/ft <sup>3</sup>
Volume:	ft <sup>3</sup>	Viscosity:	cP
		Heat Transfer Rate:	BTU/h
		Heat Transfer Coefficient:	BTU/h <sup>2</sup> °F
		Specific Heat Capacity:	BTU/lb°F
		Thermal Capacitance:	BTU/h°F
		Thermal Insulance:	h <sup>2</sup> ft <sup>2</sup> °F/BTU
		Atmospheric Pressure:	14.7 psi a

Project Information	
Company:	
Project:	
Drawn by:	
File Name:	WT HW Loop 12-19-22.pipe
Lineup:	<Design Case>
Print Date:	Tuesday, December 20, 2022 10:23 AM



Color Gradient Criteria			
Pressure			
Range	Minimum	Maximum	Unit
Actual	9.46	274.02	psi g
Specified			
		274 psi g	
		207.9 psi g	
		141.7 psi g	
		75.6 psi g	
		9.456 psi g	

PIPE-FLO Professional	
Program Version:	18.0
Calculation Method:	Darcy-Weisbach
Maximum Iterations:	100
Percent Tolerance:	0.01 %
Laminar Cutoff Re:	2100
Allowable Deviation:	1%

Units	
Area:	ft <sup>2</sup>
Length:	ft
Elevation:	ft
Diameter:	in
Velocity:	ft/s
Volume:	ft <sup>3</sup>
Flow rate:	gpm
Pressure:	psi
Power:	hp
Temperature:	°F
Density:	lb/ft <sup>3</sup>
Viscosity:	cP
Heat Transfer Rate:	BTU/h
Heat Transfer Coefficient:	BTU/h <sup>2</sup> ft <sup>2</sup> F
Specific Heat Capacity:	BTU/lb°F
Thermal Capacitance:	BTU/h°F
Thermal Insulance:	h <sup>2</sup> ft <sup>2</sup> F/BTU
Atmospheric Pressure:	14.7 psi a

Project Information	
Company:	
Project:	
Drawn by:	
File Name:	WT CHW Loop 12-20-22.pipe
Lineup:	<Design Case>
Print Date:	Tuesday, December 20, 2022 10:34 AM