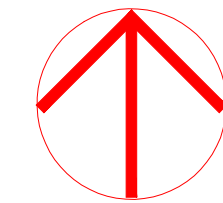


NORTH (magnetic)



Charles Washington Hall RENOVATIONS

Corner of George & Washington Streets
Charles Town, W.Va.

For the
City of Charles Town
City of Ranson

Planning & Engineering (prime)
Hall Planning & Engineering, Inc
316 Williams Street
Tallahassee, FL 32303

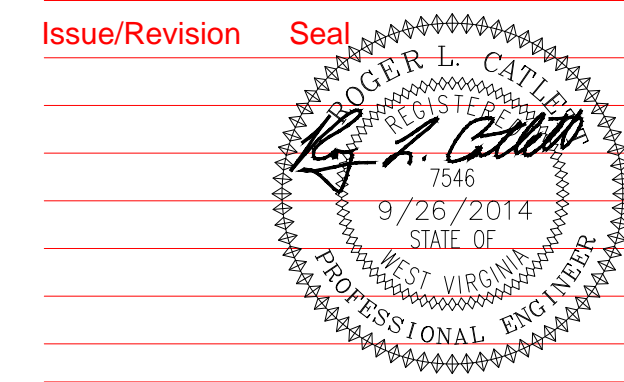
Landscape Architecture
Stromberg/Garrigan & Assoc., Inc.
102 E. Main Street-The Penn Bldg
Somerset, PA 15501

Historic Preservation & Architecture
Landmarks SGA, LLC
102 E. Main Street-The Penn Bldg
Somerset, PA 15501

Structural Engineer
R.L. Silman Associates
1053 31st Street NW
Washington D.C. 20007

Mech/Elect Engineer
Comfort Design, Inc.
620 Pennsylvania Avenue
Winchester, VA 22601

Architect

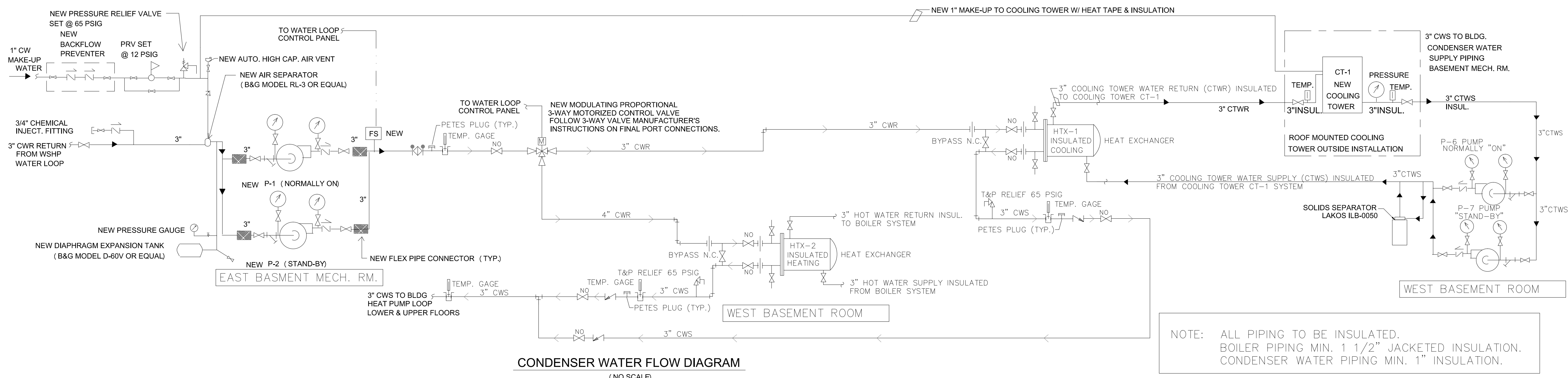


Drawing Title

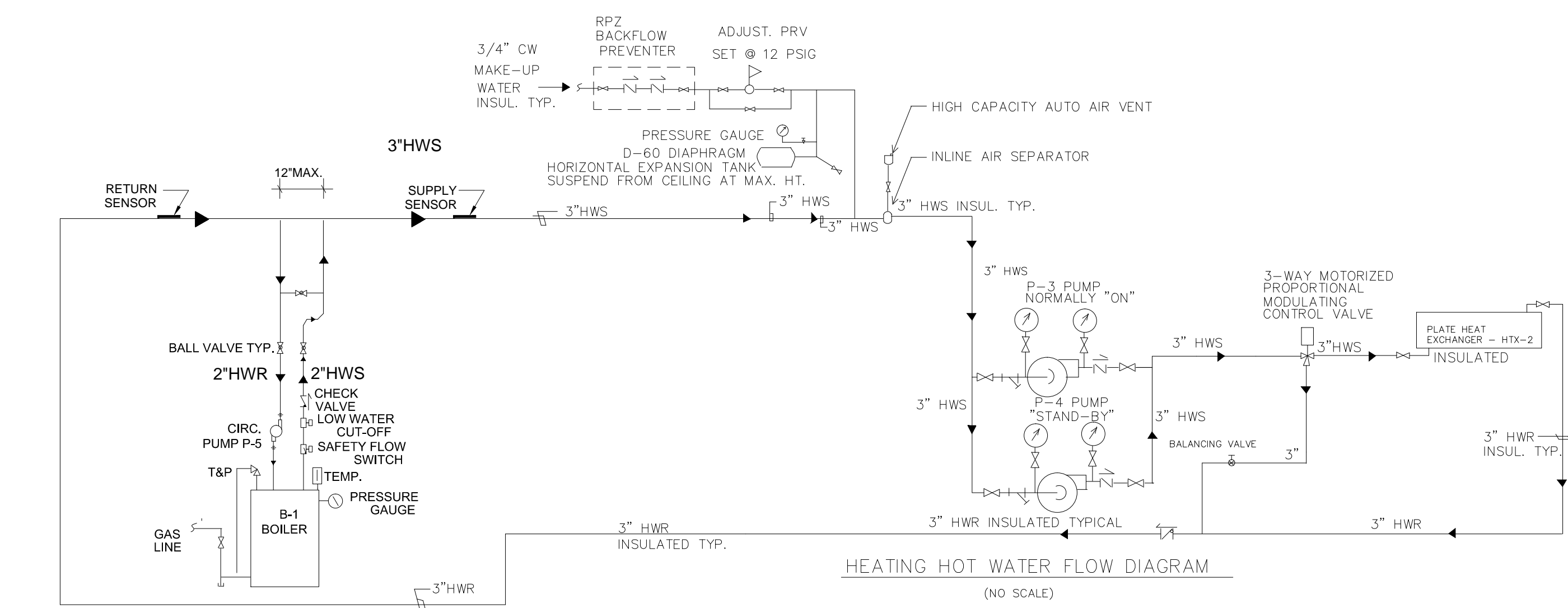
Mechanical Piping & Details

Date 9/26/14
Scale Project Number 11105
Drawing Number

M1.3



NOTE: ALL PIPING TO BE INSULATED.
BOILER PIPING MIN. 1 1/2" JACKETED INSULATION.
CONDENSER WATER PIPING MIN. 1" INSULATION.



NATURAL VENTILATION TABLES FOR CHARLES WASHINGTON HALL

Determined per 2009 International Mechanical Code Section 402

| SYSTEM AHU-1 | TOTAL EXTERIOR DOOR/ WINDOW OPENINGS (FT ²) | FLOOR AREA | 4% FLOOR AREA | TOTAL OPENINGS(FT ²) TO ADJACENT AREA W/ NATURAL VENTILATION | 8% FLOOR AREA |
|------------------------------|--|---------------|------------------|---|------------------|
| 104 Transportin/waiting area | 38.5 | 652 | 26 | N/A | |
| 109 Corridor | 38.5 | 586 | 23 | N/A | |
| SYSTEM AHU-2 | TOTAL EXTERIOR DOOR/ WINDOW OPENINGS (FT ²) | FLOOR AREA | 4% FLOOR AREA | TOTAL OPENINGS(FT ²) TO ADJACENT AREA W/ NATURAL VENTILATION | 8% FLOOR AREA |
| 103 Market | 38.5 | 717 | 29 | N/A | |
| 106 Corridor | 15 | 197 | 8 | 40.5 | 16 |
| 107 Restroom-Transfer Air | 0 | 94 | 4 | Mechanical Ventilated | |
| 108 Restroom-Transfer Air | 0 | 122 | 5 | Mechanical Ventilated | |
| SYSTEM AHU-3 | TOTAL EXTERIOR DOOR/ WINDOW OPENINGS (FT ²) | FLOOR AREA | 4% FLOOR AREA | TOTAL OPENINGS(FT ²) TO ADJACENT AREA W/ NATURAL VENTILATION | 8% FLOOR AREA |
| 102 Restaurant | 65 | 652 | 26 | N/A | |
| SYSTEM AHU-4 | TOTAL EXTERIOR DOOR/ WINDOW OPENINGS (FT ²) | FLOOR AREA | 4% FLOOR AREA | TOTAL OPENINGS(FT ²) TO ADJACENT AREA W/ NATURAL VENTILATION | 8% FLOOR AREA |
| 105 Kitchen | 40.5 | 655 | 26 | N/A | |
| SYSTEM AHU-5A & 5B | TOTAL EXTERIOR DOOR/ WINDOW OPENINGS (FT ²) | FLOOR AREA | 4% FLOOR AREA | TOTAL OPENINGS(FT ²) TO ADJACENT AREA W/ NATURAL VENTILATION | 8% FLOOR AREA |
| 201 Hall | 172 | 1804 | 72 | N/A | |
| SYSTEM AHU-6 | TOTAL EXTERIOR DOOR/ WINDOW OPENINGS (FT ²) | FLOOR AREA | 4% FLOOR AREA | TOTAL OPENINGS(FT ²) TO ADJACENT AREA W/ NATURAL VENTILATION | 8% FLOOR AREA |
| 202 Stage | 88 | 630 | 25 | N/A | |
| SYSTEM AHU-7 | TOTAL EXTERIOR DOOR/ WINDOW OPENINGS (FT ²) | FLOOR AREA | 4% FLOOR AREA | TOTAL OPENINGS(FT ²) TO ADJACENT AREA W/ NATURAL VENTILATION | 8% FLOOR AREA |
| 203 Corridor | 18 | 407 | 16 | N/A | |
| 204 Bathroom-Transfer Air | 18 | 118 | 5 | Mechanical Ventilated | |
| 205 Bathroom-Transfer Air | 0 | 42 | 2 | Mechanical Ventilated | |
| 206 Janitor Closet | 21 | 9 | 0 | N/A | 1 |