## Building Disciplines Replacement Cost Summary

<table>
<thead>
<tr>
<th>TRADE</th>
<th>POOR ($) (1-5 YEARS)</th>
<th>FAIR ($) (5-10 YEARS)</th>
<th>GOOD ($) (10-20 YEARS)</th>
<th>EXCELLENT ($) (20+ YEARS)</th>
<th>TOTAL ($)</th>
<th>$/GSF</th>
<th>Percent of Building Total (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical</td>
<td>462,900</td>
<td>230,300</td>
<td>2,457,500</td>
<td>3,150,700</td>
<td>3,150,700</td>
<td>33.45</td>
<td>37.3</td>
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<tr>
<td>Plumbing</td>
<td>41,900</td>
<td>48,900</td>
<td>810,900</td>
<td>901,600</td>
<td>901,600</td>
<td>9.57</td>
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<tr>
<td>Fire Protection</td>
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<td>985,500</td>
<td>1,168,900</td>
<td>1,168,900</td>
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<tr>
<td>Electrical</td>
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<td>1,031,200</td>
<td>1,647,800</td>
<td>2,881,500</td>
<td>2,881,500</td>
<td>30.59</td>
<td>34.1</td>
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<td>Communications</td>
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<td>341,800</td>
<td>341,800</td>
<td>3.63</td>
<td>4.0</td>
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<td><strong>TOTAL</strong></td>
<td>849,000</td>
<td>1,303,300</td>
<td>4,496,000</td>
<td>1,796,300</td>
<td>8,444,600</td>
<td>89.65</td>
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</tbody>
</table>

% of Total:
- Mechanical: 10.1
- Plumbing: 15.4
- Fire Protection: 53.2
- Electrical: 21.3
- Communications: 4.0

**Total: 100.0**%

**NO CRITICAL ITEMS IDENTIFIED FOR THIS BUILDING**

**NOTE:** Cost Estimates are Construction Costs are in 2013 dollars to Replace in Kind unless otherwise noted.
<table>
<thead>
<tr>
<th>SYSTEM/COMPONENT</th>
<th>POOR (1-5 YEARS)</th>
<th>FAIR (5-10 YEARS)</th>
<th>GOOD (10-20 YEARS)</th>
<th>EXCELLENT (20+ YEARS)</th>
<th>TOTAL</th>
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</thead>
<tbody>
<tr>
<td>Chilled Water System</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Cooling System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>989,300</td>
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<tr>
<td>Chiller</td>
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<td></td>
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<td>230,300</td>
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<tr>
<td>Cooling System - Chillers</td>
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<td>Cooling System – Cooling Tower</td>
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<td>88,200</td>
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<tr>
<td>Steam and Condensate System</td>
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<td></td>
<td></td>
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<tr>
<td>Steam and Condensate System</td>
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<td></td>
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<td></td>
<td>41,900</td>
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<tr>
<td>Heating Hot Water System</td>
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<td></td>
<td></td>
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<tr>
<td>AHU Circulation Pumps</td>
<td>31,500</td>
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<td></td>
<td></td>
<td>31,500</td>
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<tr>
<td>Heating Hot Water System</td>
<td>644,900</td>
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<td></td>
<td></td>
<td>644,900</td>
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<tr>
<td>Radiator Circulation Pumps</td>
<td>28,700</td>
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<td></td>
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<td>28,700</td>
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<td>Unit Heater w/ Fan</td>
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<td>Supply Air System</td>
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<tr>
<td>Air Handling System</td>
<td>200,300</td>
<td></td>
<td></td>
<td></td>
<td>200,300</td>
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<tr>
<td>Air Handling System</td>
<td>121,600</td>
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<td>121,600</td>
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<tr>
<td>Air Handling System</td>
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<td>54,500</td>
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<tr>
<td>Air Handling System</td>
<td>14,500</td>
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<td>14,500</td>
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<tr>
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<td>200,300</td>
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<tr>
<td>Toilet Exhaust System</td>
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<tr>
<td>Toilet Exhaust Fan #1</td>
<td>8,100</td>
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<td>Toilet Exhaust Fan #2</td>
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<td>16,400</td>
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<tr>
<td>Other Exhaust</td>
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<td>Spray Booth Exhaust</td>
<td>7,600</td>
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<td>HVAC Controls System</td>
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<td></td>
<td>462,900</td>
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<td>SYSTEM/COMPONENT</td>
<td>POOR (1-5 YEARS)</td>
<td>FAIR (5-10 YEARS)</td>
<td>GOOD (10-20 YEARS)</td>
<td>EXCELLENT (20+ YEARS)</td>
<td>TOTAL</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------</td>
<td>-------------------</td>
<td>-------------------</td>
<td>-----------------------</td>
<td>-------</td>
</tr>
<tr>
<td>MECHANICAL TOTAL</td>
<td>462,900</td>
<td>230,300</td>
<td>2,457,500</td>
<td>3,150,700</td>
<td></td>
</tr>
<tr>
<td>% OF TOTAL</td>
<td>14.7</td>
<td>7.3</td>
<td>78.0</td>
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<td>100%</td>
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**Cooling System Assessment Data**

<table>
<thead>
<tr>
<th>Item ID</th>
<th>300009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Entire building is cooled by 2, 175-ton chillers located in basement mechanical room. Chillers serve coils in 4 AHUs. 1 cooling tower located outside serves both chillers. 2 pumps serve chillers and 2 pumps serve cooling tower.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years  Nominal Useful Life: 30 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Add building to campus chilled water loop.</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$989,300</td>
</tr>
<tr>
<td>Comments</td>
<td>This building is not yet on the chilled water loop. Staff has made clear that adding Temple Hoyne to the loop should be a priority.</td>
</tr>
</tbody>
</table>
COOLING SYSTEM SURVEY PHOTOGRAPHS

Chillers
Condenser water pumps with expansion tank
Cooling tower located SW of building

Chilled water pumps
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300007</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>Entire building is cooled by 2 identical 175-ton chillers located in basement mechanical room. Evaporators are 420 gpm. Condensers are 525 gpm. Compressor is 145 kw, 480 v, 3 phase. Chillers serve coils in all four (4) AHUs. Two (2) identical pumps serve chillers, both are 420 gpm, 25 HP, 480 v, and located in the South mechanical room. System is closed-loop glycol.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Fair</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>7 Years Nominal Useful Life: 25 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
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<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Add building to campus chilled water loop.</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$230,300</td>
</tr>
<tr>
<td>Comments</td>
<td>This building is not yet on the chilled water loop. Staff has made clear that adding Temple Hoyne to the loop should be a priority.</td>
</tr>
<tr>
<td>Item ID</td>
<td>300008</td>
</tr>
<tr>
<td>---------</td>
<td>--------</td>
</tr>
<tr>
<td>Description</td>
<td>Cooling tower is located outside in fenced-off area to the SW of building and serves 2 chillers. Tower is served by 2 identical condenser water pumps (525 gpm, 15 HP, 480 v).</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
</tbody>
</table>
| Remaining Useful Life | 10-15 Years  
Nominal Useful Life: 25 Years |
<p>| Equipment Tag | CT-1 |
| Manufacturer | Baltimore Aircoil Company |
| Model Number | JE 315 |
| Serial Number | - |
| Size/Capacity | 945 gpm |
| HP/kW | 25 |
| Voltage | 480 |
| Material | - |
| Recommendation | Add building to campus chilled water loop. |
| Replacement Cost | $88,200 |
| Comments | This building is not yet on the chilled water loop. Staff has made clear that adding Temple Hoyne to the loop should be a priority. |</p>
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300031</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Campus steam serves 2 exchangers (glycol closed-loop system, each exchanger is 250 gpm) which in turn serve heat coils, re-heat coils, and perimeter fin-tube radiators. There is one condensate pump (gravity fed, 14 gpm, 1.5 HP) with flash tank. The closed-loop glycol system heats the entire building.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years</td>
</tr>
<tr>
<td>Nominal Useful Life: 30 Years</td>
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</tr>
<tr>
<td>Equipment Tag</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Material</td>
<td>Black steel piping</td>
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<tr>
<td>Recommendation</td>
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</tr>
<tr>
<td>Replacement Cost</td>
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</table>
Heat exchangers

Condensate pump

Steam piping with heat exchangers and heat pumps in background
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<th>Item ID</th>
<th>300020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Four (4) circulation pumps serve heat and re-heat coils for 4 AHUs. Pumps are 42, 42, 113, and 22 gpm respectively. Pumps are 1, 1, 2, and ¾ HP respectively.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years Nominal Useful Life: 30 Years</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
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<td>Serial Number</td>
<td>-</td>
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<td>Size/Capacity</td>
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<tr>
<td>HP/kW</td>
<td>-</td>
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<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$31,500</td>
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<tr>
<td>Item ID</td>
<td>300022</td>
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<tr>
<td>----------</td>
<td>--------</td>
</tr>
<tr>
<td>Description</td>
<td>Campus steam serves 2 exchangers (glycol closed-loop system) which in turn serve heat coils, re-heat coils, and perimeter fin-tube radiators. The closed-loop glycol system heats the entire building. System includes 3 glycol re-fill pumps, 1 heat pump and 1 re-heat pump (for radiators), and 4 heating coil circulation pumps (for AHUs).</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$644,900</td>
</tr>
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</table>
Heating hot water pumps

Perimeter radiation

Glycol reservoir

Glycol re-fill pumps (red, at top of picture) next to glycol reserve tanks (black, left side of picture).
<table>
<thead>
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<tbody>
<tr>
<td>Description</td>
<td>Heat and re-heat water pumps serve perimeter (and some office) radiators. System is closed-loop glycol.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
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<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years</td>
</tr>
<tr>
<td>Nominal Useful Life: 30 Years</td>
<td></td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>P-3 and P-4</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Bell &amp; Gossett</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>230 and 160 gpm respectively.</td>
</tr>
<tr>
<td>HP/kW</td>
<td>10 (both pumps)</td>
</tr>
<tr>
<td>Voltage</td>
<td>480 (both pumps)</td>
</tr>
<tr>
<td>Material</td>
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<td>Recommendation</td>
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<td>Replacement Cost</td>
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<tr>
<td>Description</td>
<td>2-4 wall and ceiling mounted unit heaters with fans, hot water heated.</td>
</tr>
<tr>
<td>Overall Condition</td>
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</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years</td>
</tr>
<tr>
<td>Nominal Useful Life: 30 Years</td>
<td></td>
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<tr>
<td>Equipment Tag</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturer</td>
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<td>-</td>
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<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
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<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$9,800</td>
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Typical unit heater
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<td>Description</td>
<td>AHU with VFD serves Atrium.</td>
</tr>
<tr>
<td>Overall Condition</td>
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</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
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<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years</td>
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<td>Nominal Useful Life: 30 Years</td>
<td></td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>AHU-3</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>York</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>18,000 cfm</td>
</tr>
<tr>
<td>HP/kW</td>
<td>10</td>
</tr>
<tr>
<td>Voltage</td>
<td>480</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Recommend insulating ducts to noisy rooms. Install elbow ducts on AHU intakes.</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$121,600</td>
</tr>
<tr>
<td>Comments</td>
<td>Most ductwork is exposed and mechanical sound from AHUs is an issue throughout building. Fan boxes were changed out in second and third floor classrooms on East side of building, which helped. Second and third floor classrooms on the North side of building are especially noisy. Intakes are on top of AHU cabinets and dust/particles from relief air coming into the mechanical room clog filters. Recommend installing elbow ducts on AHU intakes.</td>
</tr>
</tbody>
</table>
## Air Handling System Assessment Data

<table>
<thead>
<tr>
<th>Item ID</th>
<th>300006</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>4 AHUs with VFDs serve entire building and contain cooling, heat, and reheat coils. The AHUs are 33,000, 33,000, 18,000, and 7,000 cfm respectively.</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Good</td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>15-20 Years Nominal Useful Life: 30 Years</td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
<td>AHU-1 through AHU-4</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>York</td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
<td>Recommend insulating ducts to noisy rooms. Install elbow ducts on AHU intakes.</td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
<td>$14,500</td>
</tr>
<tr>
<td><strong>Comments</strong></td>
<td>Most ductwork is exposed and mechanical sound from AHUs is an issue throughout building. Fan boxes were changed out in second and third floor classrooms on East side of building, which helped. Second and third floor classrooms on the North side of building are especially noisy. Intakes are on top of AHU cabinets and dust/particles from relief air coming into the mechanical room clog filters. Recommend installing elbow ducts on AHU intakes.</td>
</tr>
<tr>
<td><strong>Critical Issues</strong></td>
<td>The South stairwell has all glass walls and acts as a greenhouse in warm months. It has no cooling or ventilation and overheats to the point where people don’t use it. Recommend installing ventilation and window shading. See picture “339 Temple Hoyne Mech (144)”</td>
</tr>
<tr>
<td>Item ID</td>
<td>300003</td>
</tr>
<tr>
<td>--------------</td>
<td>--------</td>
</tr>
<tr>
<td>Description</td>
<td>AHU with VFD serves East wing of building.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years</td>
</tr>
<tr>
<td>Nominal Useful Life: 30 Years</td>
<td></td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>AHU-2</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>York</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>33,000 cfm</td>
</tr>
<tr>
<td>HP/kW</td>
<td>25</td>
</tr>
<tr>
<td>Voltage</td>
<td>480</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Recommend insulating ducts to noisy rooms. Install elbow ducts on AHU intakes.</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$200,300</td>
</tr>
<tr>
<td>Comments</td>
<td>Most ductwork is exposed and mechanical sound from AHUs is an issue throughout building. Fan boxes were changed out in second and third floor classrooms on East side of building, which helped. Second and third floor classrooms on the North side of building are especially noisy. Intakes are on top of AHU cabinets and dust/particles from relief air coming into the mechanical room clog filters. Recommend installing elbow ducts on AHU intakes.</td>
</tr>
<tr>
<td>Item ID</td>
<td>300005</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>Description</td>
<td>AHU with VFD serves Auditorium.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years Nominal Useful Life: 30 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>AHU-4</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>York</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>7000 cfm</td>
</tr>
<tr>
<td>HP/kW</td>
<td>5</td>
</tr>
<tr>
<td>Voltage</td>
<td>480</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Recommend insulating ducts to noisy rooms. Install elbow ducts on AHU intakes.</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$54,500</td>
</tr>
<tr>
<td>Comments</td>
<td>Most ductwork is exposed and mechanical sound from AHUs is an issue throughout building. Fan boxes were changed out in second and third floor classrooms on East side of building, which helped. Second and third floor classrooms on the North side of building are especially noisy. Intakes are on top of AHU cabinets and dust/particles from relief air coming into the mechanical room clog filters. Recommend installing elbow ducts on AHU intakes.</td>
</tr>
</tbody>
</table>
## AIR HANDLING SYSTEM ASSESSMENT DATA

<table>
<thead>
<tr>
<th>Item ID</th>
<th>300002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>AHU with VFD serves North wing of building.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>15-20 Years</td>
</tr>
<tr>
<td>Nominal Useful Life: 30 Years</td>
<td></td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>AHU-1</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>York</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>33,000 cfm</td>
</tr>
<tr>
<td>HP/kW</td>
<td>30</td>
</tr>
<tr>
<td>Voltage</td>
<td>480</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Recommend insulating ducts to noisy rooms. Install elbow ducts on AHU intakes.</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$200,300</td>
</tr>
<tr>
<td>Comments</td>
<td>Most ductwork is exposed and mechanical sound from AHUs is an issue throughout building. Fan boxes were changed out in second and third floor classrooms on East side of building, which helped. Second and third floor classrooms on the North side of building are especially noisy. Intakes are on top of AHU cabinets and dust/particles from relief air coming into the mechanical room clog filters. Recommend installing elbow ducts on AHU intakes.</td>
</tr>
</tbody>
</table>
Typical AHU with controls

Typical VFD

Top intake vent where particles clog filter

Example ductwork
<table>
<thead>
<tr>
<th><strong>TOILET EXHAUST FAN #1 ASSESSMENT DATA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item ID</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
</tr>
<tr>
<td><strong>Material</strong></td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
</tr>
<tr>
<td>Item ID</td>
</tr>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Overall Condition</td>
</tr>
<tr>
<td>Date Installed</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
</tr>
<tr>
<td>Equipment Tag</td>
</tr>
<tr>
<td>Manufacturer</td>
</tr>
<tr>
<td>Model Number</td>
</tr>
<tr>
<td>Serial Number</td>
</tr>
<tr>
<td>Size/Capacity</td>
</tr>
<tr>
<td>HP/kW</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Recommendation</td>
</tr>
<tr>
<td>Replacement Cost</td>
</tr>
<tr>
<td><strong>Item ID</strong></td>
</tr>
<tr>
<td>--------------</td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
</tr>
<tr>
<td><strong>Nominal Useful Life</strong></td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
</tr>
<tr>
<td><strong>Material</strong></td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
</tr>
<tr>
<td><strong>Comments</strong></td>
</tr>
</tbody>
</table>
Inside of spray booth

Return air vent for spray booth
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>All controls are pneumatic and typical for the mid-90s.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Poor</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>0-5 Years</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Curtis Climate Control Systems</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>5 HP compressor motor</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$462,900</td>
</tr>
<tr>
<td>Comments</td>
<td>The main auditorium and offices along the West curved wall are often too hot or cold. Recommend testing thermostats.</td>
</tr>
<tr>
<td>SYSTEM/COMPONENT</td>
<td>POOR (1-5 YEARS)</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>DOMESTIC COLD WATER SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Domestic Cold Water Piping</td>
<td></td>
</tr>
<tr>
<td><strong>PUMPS</strong></td>
<td></td>
</tr>
<tr>
<td>Booster Pump</td>
<td></td>
</tr>
<tr>
<td>Sewage Ejector Pumps</td>
<td></td>
</tr>
<tr>
<td><strong>DOMESTIC HOT WATER SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Domestic Hot Water System</td>
<td></td>
</tr>
<tr>
<td><strong>PLUMBING FIXTURES SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Plumbing Fixtures</td>
<td></td>
</tr>
<tr>
<td><strong>STORM DRAINAGE SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Storm Drainage System</td>
<td></td>
</tr>
<tr>
<td><strong>SUB-SOIL DRAINAGE SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Sub-Soil Drainage</td>
<td></td>
</tr>
<tr>
<td><strong>PLUMBING TOTAL</strong></td>
<td></td>
</tr>
<tr>
<td>% OF TOTAL</td>
<td>4.6</td>
</tr>
</tbody>
</table>

**TOTAL** 901,600
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300011</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>6” pipe enters building and goes through meter. All domestic water has booster pump (55 gpm).</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>30-35 Years</td>
</tr>
<tr>
<td><strong>Nominal Useful Life</strong></td>
<td>50 Years</td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Galvanized steel pipe</td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
<td>$70,400</td>
</tr>
</tbody>
</table>
Domestic cold water piping as it enters building
Sewage pump #1

Sewage pump #2 and sump pump #2

Sewage pump #2

Sewage pump motor tag
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Hot water comes from 4 electric water heaters located in various locations (janitor’s closets, mechanical room, and a faculty lounge. Sizes are 2, 6, 10, and 20 gallons.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Excellent</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>32 Years</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Replace as necessary.</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$95,000</td>
</tr>
<tr>
<td>Comments</td>
<td>Poor rating is only due to remaining useful life, heaters are fully functional.</td>
</tr>
</tbody>
</table>
Mechanical room electric water heater

Example electric water heater
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300028</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Toilets, bathroom sinks, janitor sinks, and urinals throughout building. Everything is up to date.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Excellent</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>30-35 Years</td>
</tr>
<tr>
<td>Nominal Useful Life:</td>
<td>50 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Material</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$174,000</td>
</tr>
</tbody>
</table>
PLUMBING FIXTURES SURVEY PHOTOGRAPHS

Typical urinal

Typical fountain

Typical bathroom sinks

Typical janitor sink
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300032</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>2 separate sump pumps located in basement mechanical rooms (#33 and #10). Both have dual 2 HP, 6 Hz, 460 v motors. PP-4 is 60 gpm, PP-5 is 30 gpm.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Excellent</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>32 Years Nominal Useful Life: 50 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>PP-4 and PP-5</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>-</td>
</tr>
<tr>
<td>Model Number</td>
<td>-</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>-</td>
</tr>
<tr>
<td>HP/kW</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Material</td>
<td>Cast iron drainpipes and drains. Drainpipes are internal.</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$394,800</td>
</tr>
<tr>
<td>Comments</td>
<td>Useful life of 15-20 describes sump pumps. Drains and drainpipes have 30-40 year useful life.</td>
</tr>
</tbody>
</table>
STORM DRAINAGE SYSTEM SURVEY PHOTOGRAPHS

Sump pump #1

Sump pump motor tag

Sump pump #2

Typical roof drain
<table>
<thead>
<tr>
<th><strong>Item ID</strong></th>
<th>300033</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Drainage for this building is reported as good. There is no other information.</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Cast iron pipes</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>35-40 Years</td>
</tr>
<tr>
<td><strong>Nominal Useful Life</strong></td>
<td>50 Years</td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
<td>$76,700</td>
</tr>
<tr>
<td>SYSTEM/COMPONENT</td>
<td>POOR (1-5 YEARS)</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td><strong>FIRE ALARM SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Fire Alarm System</td>
<td>183,400</td>
</tr>
<tr>
<td><strong>SPRINKLER SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Fire Protection System - Fire Pump</td>
<td></td>
</tr>
<tr>
<td>Fire Suppression System</td>
<td></td>
</tr>
<tr>
<td><strong>FIRE PROTECTION TOTAL</strong></td>
<td>183,400</td>
</tr>
<tr>
<td>% OF TOTAL</td>
<td>15.7</td>
</tr>
<tr>
<td><strong>Item ID</strong></td>
<td>300017</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Original Addressable Fire Alarm System. System includes horns, heat detectors, pull stations, smoke detectors, Duct mounted Smoke detectors and strobes.</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Poor</td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>2 Years Nominal Useful Life: 20 Years</td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Pyrotronics/Siemens</td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
<td>MXL</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>12 V</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
<td>Migration to XLS or latest system</td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
<td>$183,400</td>
</tr>
<tr>
<td><strong>Critical Issues</strong></td>
<td>Replacement or refurbishing Smoke detectors</td>
</tr>
</tbody>
</table>
Fire Alarm Panel

Horn, Strobe and Pull Station

Temper switches at fire protection water valves

Duct Smoke detector
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>1000 gpm fire pump with small jockey pump.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Excellent</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>35+ Years</td>
</tr>
<tr>
<td>Nominal Useful Life: 50 Years</td>
<td></td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Peerless Pump Company</td>
</tr>
<tr>
<td>Model Number</td>
<td>5AFF8N</td>
</tr>
<tr>
<td>Serial Number</td>
<td>-</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>1000 gpm</td>
</tr>
<tr>
<td>HP/kW</td>
<td>75</td>
</tr>
<tr>
<td>Voltage</td>
<td>-</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$985,500</td>
</tr>
<tr>
<td>Comments</td>
<td>Pump would be in excellent condition but for moderate corrosion.</td>
</tr>
</tbody>
</table>
FIRE PROTECTION SYSTEM - FIRE PUMP SURVEY PHOTOGRAPHS

Fire pump
Fire pump second angle
Fire pump tag
Fire pump third angle showing corrosion
<table>
<thead>
<tr>
<th><strong>Item ID</strong></th>
<th>300019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Fire suppression system consists of standpipes and sprinklers throughout entire building served by a 1000 gpm fire pump located in the basement mechanical room. Fire water separates from domestic water in basement mechanical room and has backflow preventer. Sprinkler system tag says “Hydraulically Designed Automatic Sprinkler System”.</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>35+ Years</td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
<td>3” Black steel piping to standpipes</td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Black steel</td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
<td>-</td>
</tr>
<tr>
<td>SYSTEM/COMPONENT</td>
<td>POOR (1-5 YEARS)</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>SUBSTATION</strong></td>
<td></td>
</tr>
<tr>
<td>Substation#1</td>
<td></td>
</tr>
<tr>
<td>Substation#2</td>
<td></td>
</tr>
<tr>
<td><strong>SWITCHGEAR</strong></td>
<td></td>
</tr>
<tr>
<td>Medium Voltage System</td>
<td></td>
</tr>
<tr>
<td><strong>LOW VOLTAGE SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Low Voltage Distribution</td>
<td></td>
</tr>
<tr>
<td><strong>EMERGENCY POWER SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Emergency Power System</td>
<td></td>
</tr>
<tr>
<td><strong>INTERIOR LIGHTING</strong></td>
<td></td>
</tr>
<tr>
<td>Interior lighting System</td>
<td></td>
</tr>
<tr>
<td><strong>EMERGENCY LIGHTING SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Emergency lighting System</td>
<td></td>
</tr>
<tr>
<td><strong>EXIT LIGHTING SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Exit lighting</td>
<td></td>
</tr>
<tr>
<td><strong>LIGHTING CONTROL SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Lighting Control System</td>
<td></td>
</tr>
<tr>
<td><strong>EXTERIOR LIGHTING SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>EXTERIOR LIGHTING</td>
<td></td>
</tr>
<tr>
<td>ELECTRICAL TOTAL</td>
<td>202,600</td>
</tr>
<tr>
<td>% OF TOTAL</td>
<td>7.0</td>
</tr>
<tr>
<td><strong>Item ID</strong></td>
<td>300034</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>4160/128/208 V Substation wit 300 KVA transformer,(5) Breakers, Metering Section and KWH Meter</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Good</td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>20 Years</td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
<td>UPC-1</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Westinghouse</td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
<td>Pow-R-Line</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>CW19620 –job number</td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
<td>1200 A main breaker</td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>4160/120/208V</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Copper bus</td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
<td>Maintenance of Breakers per manufacturer recommendation</td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
<td>$114,200</td>
</tr>
<tr>
<td>Item ID</td>
<td>300035</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Description</td>
<td>4160/277/480 V Substation with 1000 KVA transformer, (8) Breakers, Metering Section. KWH Meter # 30-855-427</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>20 Years</td>
</tr>
<tr>
<td>Nominal Useful Life</td>
<td>40 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>UPC-2</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Westinghouse</td>
</tr>
<tr>
<td>Model Number</td>
<td>Pow-R-Line</td>
</tr>
<tr>
<td>Serial Number</td>
<td>CW19620</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>2000 A Main Switch</td>
</tr>
<tr>
<td>HP/kW</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Voltage</td>
<td>4160/480/277 V</td>
</tr>
<tr>
<td>Material</td>
<td>Copper bus</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Maintenance of Breakers per manufacturer recommendation</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$251,900</td>
</tr>
<tr>
<td>Item ID</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>MEDIUM VOLTAGE SYSTEM ASSESSMENT DATA</td>
<td>4160 V # Phase Load Center provides power and protection for Substation #1 (tag UPC-1) and Substation #2 (tag UPC-2). Substation #1 is protected by 600A/60 amp Metal Enclosed Switch/Fuse. Substation #2 by 600/350 amp Switch Fuse.</td>
</tr>
</tbody>
</table>
DC-3 Load center In Vault located South of the Building

Substation room (Medium voltage distribution is within this room only)

Load Center
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300026</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Building has two substations and two services. 120/208 V consist of (13) panelboards serving receptacles. 277/480 V Service consist of (116) lighting panelboards and (3) Motor Control Centers serving mechanical Loads.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>20 Years Nominal Useful Life: 40 Years</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Westinghouse</td>
</tr>
<tr>
<td>Serial Number</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>HP/kW</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Voltage</td>
<td>120/208 V and 277/480 volt</td>
</tr>
<tr>
<td>Material</td>
<td>Cooper Bus</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$976,500</td>
</tr>
<tr>
<td>Item ID</td>
<td>300014</td>
</tr>
<tr>
<td>------------</td>
<td>--------</td>
</tr>
<tr>
<td>Description</td>
<td>Separate “Tap” ahead of main switch at 480 V service provides emergency power to the Building Emergency Loads. Two Battery banks with inverters manufactured by Centaurus provide power to Lighting, Exit Signs and Fire Alarm System.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Fair</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>7 Years  Nominal Useful Life: 25 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Model Number</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Serial Number</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>1000 Amp</td>
</tr>
<tr>
<td>HP/kW</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Voltage</td>
<td>277/480</td>
</tr>
<tr>
<td>Material</td>
<td>not applicable</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Replacement Batteries at the end of useful life</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$407,400</td>
</tr>
</tbody>
</table>
Emergency Battery banks

Emergency inverter

Battery –Bank 1

Battery -Bank 2
### INTERIOR LIGHTING SYSTEM ASSESSMENT DATA

<table>
<thead>
<tr>
<th>Item ID</th>
<th>300024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Majority of fixtures are original (fluorescent type.) Lamp/ballast replacement in progress.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Fair</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>5 Years</td>
</tr>
<tr>
<td>Nominal Useful Life: 25 Years</td>
<td></td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Model Number</td>
<td>No applicable</td>
</tr>
<tr>
<td>Serial Number</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>HP/kW</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Voltage</td>
<td>277 V</td>
</tr>
<tr>
<td>Material</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$557,700</td>
</tr>
<tr>
<td>Critical Issues</td>
<td>Three Metal Halide Fixtures at the top of Lobby have broken Lowering devices. Fixtures are not accessible for lamp replacement.</td>
</tr>
<tr>
<td>Item ID</td>
<td>300013</td>
</tr>
<tr>
<td>--------------</td>
<td>--------</td>
</tr>
<tr>
<td>Description</td>
<td>Selected light fixtures in public area are connected to emergency system. -50% of stairways fixtures are connected to Emergency System. Battery Bank provides power to Emergency Panelboards during loss of normal power.</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Fair</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>10 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Model Number</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Serial Number</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>HP/kW</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Voltage</td>
<td>277V</td>
</tr>
<tr>
<td>Material</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$26,000</td>
</tr>
<tr>
<td>Comments</td>
<td>Replace Battery at the end of useful life.</td>
</tr>
</tbody>
</table>
Battery Banks - Back-up for Emergency Lighting
<table>
<thead>
<tr>
<th>Item ID</th>
<th>300015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Exit Sign with 2-5W compact fluorescent lamps</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>1/1/1995</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>10 Years</td>
</tr>
<tr>
<td>Nominal Useful Life:</td>
<td>25 Years</td>
</tr>
<tr>
<td>Equipment Tag</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Lithonia</td>
</tr>
<tr>
<td>Model Number</td>
<td>F2E-S-R</td>
</tr>
<tr>
<td>Serial Number</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Size/Capacity</td>
<td>Standard 6</td>
</tr>
<tr>
<td>HP/kW</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Voltage</td>
<td>277 V</td>
</tr>
<tr>
<td>Material</td>
<td>Brush Aluminum</td>
</tr>
<tr>
<td>Recommendation</td>
<td>-</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$23,000</td>
</tr>
<tr>
<td><strong>Lighting Control System Assessment Data</strong></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Item ID</strong></td>
<td>300025</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Poor</td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>5 Years</td>
</tr>
<tr>
<td></td>
<td>Nominal Useful Life: 20 Years</td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Lutron</td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
<td>DP-2</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>10968-03</td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>277 V</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
<td>$202,600</td>
</tr>
<tr>
<td><strong>Comments</strong></td>
<td>Poor due to age of Lutron Equipment</td>
</tr>
<tr>
<td><strong>EXTERIOR LIGHTING ASSESSMENT DATA</strong></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Item ID</strong></td>
<td>300016</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Six standard campus Pole fixtures with Globe type shade and 175 metal halide lamp are located at east walkway provide and provide illumination for east side. West side of the building has several wall/step lights. Light from building interior provides illumination through Glass Curtain Wall. (West walkway lighting is approx. 100 feet away).</td>
</tr>
<tr>
<td><strong>Date Installed</strong></td>
<td>1/1/1995</td>
</tr>
<tr>
<td><strong>Overall Condition</strong></td>
<td>Fair</td>
</tr>
<tr>
<td><strong>Remaining Useful Life</strong></td>
<td>10 Years, Nominal Useful Life: 25 Years</td>
</tr>
<tr>
<td><strong>Equipment Tag</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Model Number</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Size/Capacity</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>HP/kW</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
<td>Installation of Campus Standard Pole lighting at north and south side of the building.</td>
</tr>
<tr>
<td><strong>Replacement Cost</strong></td>
<td>$40,000</td>
</tr>
<tr>
<td>SYSTEM/COMPONENT</td>
<td>POOR (1-5 YEARS)</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>DATA SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Communication Infrastructure System</td>
<td>341,800</td>
</tr>
<tr>
<td><strong>COMMUNICATIONS TOTAL</strong></td>
<td>341,800</td>
</tr>
<tr>
<td>% OF TOTAL</td>
<td></td>
</tr>
<tr>
<td>Item ID</td>
<td>301787</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>Description</td>
<td>The building is fed with 12 strands of single mode fiber, multimode fiber and 400 copper pairs with each pair grounded and individually protected by a fuse/surge arrestor. Fiber and copper originate from Node #2. The building IDF is located in room 33B on the lower level. Fiber distributes radially from the building IDF to hub rooms (telecommunication rooms) to within 100 meters of end-use equipment and lands at rack mounted fiber switches within the hub room. Two hub rooms were surveyed (the report lists three hub rooms - inconsistent with the survey)- hub room 19A on the lower level and hub room 21E located in a loft above the south stair. Each hub room is equipped with one free standing rack, wire management and overhead basket cable tray. The hub rooms have smoke detection and sprinkler protection. The hub rooms do not have dedicated cooling systems; they are conditioned/exhausted by the base building systems. Outlet standards typically have 1°C stubbed to cable management. Standard outlet consists of two network cables and two data jacks. Station cable consists of Cat 6 and Cat 6e (Mohawk Advancenet). The building is typically equipped with WIFI throughout (coverage not noted).</td>
</tr>
<tr>
<td>Overall Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Date Installed</td>
<td>UIUC network upgrade complete (date range 2006 to 2012)</td>
</tr>
<tr>
<td>Remaining Useful Life</td>
<td>20 Years</td>
</tr>
<tr>
<td>Replacement Cost</td>
<td>$341,800</td>
</tr>
</tbody>
</table>
COMMUNICATION INFRASTRUCTURE SYSTEM SURVEY PHOTOGRAPHS

Building 339 Hub Room 19A

Building 339 Hub Room 21E

Building 339 IDF
Legacy Asset Description: Temple Hoyne Buell Hall

Temple Hoyne Buell Hall is a four-story non-combustible structure with a center atrium. Approximately half of the external walls are glass.

The facility contains administrative offices, a large assembly hall, classrooms, conference rooms, studio and galleries. Occupancy class is Assembly and Business.

The fire alarm control panel is a Cerberus Pyrotronics MXL that monitors smoke detectors and sprinkler flow. This panel is located in vestibule 100. Smoke detection is provided in elevator lobbies, main enclosed stairs, and electrical equipment rooms.

The facility is fully sprinklered, has a 1000 gpm - 90 psi Peerless fire pump (room 333), has battery pack emergency lighting, and battery pack exit lights. A standpipe system is located in the stair 1, stair 2, the north corridor and the center of the office area. Sprinkler coverage of atrium is supplied at glass windows and ceiling level.

Sprinklers mounted next to window walls are obstructed by ventilation ducts in several areas. Replacing these heads with extension nipples or converting to pendant heads should promote more efficient sprinkler protection. An example of other sprinkler head obstruction is a sprinkler head obstructed by an exit sign outside the third floor elevator access.

Fire extinguishers are provided throughout. However, many have not been inspected recently. Inspection date tags show 1995 through 2002.

Stairwell doors do not have panic hardware.

Occupant Load/Exiting

Sub-Basement Level: 13 occupants; 1 exits required (1 exit provided), exit capacity for 50 occupants provided from the floor, which is adequate total occupants of this floor.

Lower Level (LED): 463 occupants; 2 exits required (2 exits provided), exit capacity for 1215 occupants provided from the floor, which is adequate total occupants of this floor.

Ground Level (LED): 453 occupants; 2 exits required (5 remotely located exterior exit doors provided), exit capacity for 1345 occupants provided from the floor, which is adequate total occupants of this floor and for stairs from floors above discharging onto the floor. Note that the west interior enclosed stair (stair 1) discharges on to this floor.

Second Level: 274 occupants; 2 exits required (2 remotely located exit stairs provided), exit capacity for 292 occupants provided from the floor, which is adequate total occupants of this floor.

Mezzanine Level: 62 occupants; 2 exits required (2 remotely located exit stairs provided), exit capacity for 292 occupants provided from the floor, which is adequate total occupants of this floor.

Third Level: 273 occupants; 2 exits required (2 remotely located exit stairs provided), exit capacity for 292 occupants provided from the floor, which is adequate total occupants of this floor.
# Temple Hoyne Buell Hall Legacy Assessment Summary

<table>
<thead>
<tr>
<th>Item ID</th>
<th>Requirement Number</th>
<th>Inspection Date</th>
<th>Identified Issue</th>
<th>Legacy Value</th>
<th>Percent Complete</th>
<th>Poor</th>
<th>Fair</th>
<th>Code</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>305766</td>
<td>REQ-55179</td>
<td>10/8/2002</td>
<td>ADA: Non-Compliant Kitchenette</td>
<td>2,600</td>
<td>0.0</td>
<td>2,600</td>
<td></td>
<td></td>
<td>2,600</td>
</tr>
<tr>
<td>305761</td>
<td>REQ-55180</td>
<td>10/8/2002</td>
<td>ADA Handrails: Non-ADA Compliant</td>
<td>5,100</td>
<td>0.0</td>
<td>5,100</td>
<td></td>
<td></td>
<td>5,100</td>
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<tr>
<td>305754</td>
<td>REQ-53163</td>
<td>10/8/2002</td>
<td>Glazing: Install Safety Glazing @ Egress Doors</td>
<td>1,200</td>
<td>0.0</td>
<td>1,200</td>
<td></td>
<td></td>
<td>1,200</td>
</tr>
<tr>
<td>305765</td>
<td>REQ-53574</td>
<td>10/8/2002</td>
<td>Handrails: Lacking at Auditorium 134</td>
<td>4,800</td>
<td>0.0</td>
<td>4,800</td>
<td></td>
<td></td>
<td>4,800</td>
</tr>
<tr>
<td>305755</td>
<td>REQ-53579</td>
<td>10/8/2002</td>
<td>Gutters: Replace</td>
<td>6,800</td>
<td>0.0</td>
<td>6,800</td>
<td></td>
<td></td>
<td>6,800</td>
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<tr>
<td>305756</td>
<td>REQ-53720</td>
<td>10/8/2002</td>
<td>Windows Curtain Wall: Investigate</td>
<td>13,700</td>
<td>0.0</td>
<td>13,700</td>
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<td>13,700</td>
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<tr>
<td>305757</td>
<td>REQ-56842</td>
<td>3/17/2005</td>
<td>Fire Barrier: Unprotected Penetrations</td>
<td>29,100</td>
<td>0.0</td>
<td>29,100</td>
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<td>29,100</td>
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<tr>
<td>305758</td>
<td>REQ-56912</td>
<td>3/17/2005</td>
<td>Means of Egress Components: Door Swing</td>
<td>1,200</td>
<td>0.0</td>
<td>1,200</td>
<td></td>
<td></td>
<td>1,200</td>
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<tr>
<td>305759</td>
<td>REQ-57929</td>
<td>3/17/2005</td>
<td>Means of Egress: Impediments to Egress</td>
<td>1,200</td>
<td>0.0</td>
<td>1,200</td>
<td></td>
<td></td>
<td>1,200</td>
</tr>
<tr>
<td>305762</td>
<td>REQ-58070</td>
<td>3/17/2005</td>
<td>Means of Egress: Stair Identification Signs</td>
<td>2,200</td>
<td>0.0</td>
<td>2,200</td>
<td></td>
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<td>2,200</td>
</tr>
<tr>
<td>305760</td>
<td>REQ-58072</td>
<td>3/17/2005</td>
<td>Means of Egress: Protected Enclosure Openings</td>
<td>22,300</td>
<td>0.0</td>
<td>22,300</td>
<td></td>
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<td>22,300</td>
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**GENERAL LEGACY ITEMS TOTALS**

<table>
<thead>
<tr>
<th>Legacy Value</th>
<th>Percent Complete</th>
<th>Poor</th>
<th>Fair</th>
<th>Code</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>90,200</td>
<td>0.0</td>
<td>76,400</td>
<td></td>
<td>13,800</td>
<td>90,200</td>
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</table>

**MEP Legacy Items**

<table>
<thead>
<tr>
<th>Item ID</th>
<th>Requirement Number</th>
<th>Inspection Date</th>
<th>Identified Issue</th>
<th>Legacy Value</th>
<th>Percent Complete</th>
<th>Poor</th>
<th>Fair</th>
<th>Code</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>305763</td>
<td>REQ-53220</td>
<td>10/8/2002</td>
<td>Hydrogen Gas Sensor: Lacking</td>
<td>3,100</td>
<td>0.0</td>
<td>3,100</td>
<td></td>
<td></td>
<td>3,100</td>
</tr>
<tr>
<td>305764</td>
<td>REQ-55560</td>
<td>10/8/2002</td>
<td>Security System: Abandoned in Place</td>
<td>223,200</td>
<td>0.0</td>
<td>223,200</td>
<td></td>
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<td>223,200</td>
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</table>

**MEP LEGACY ITEMS TOTALS**

<table>
<thead>
<tr>
<th>Legacy Value</th>
<th>Percent Complete</th>
<th>Poor</th>
<th>Fair</th>
<th>Code</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>226,200</td>
<td>0.0</td>
<td>3,100</td>
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<td>223,200</td>
<td>226,200</td>
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</table>

**Totals**

<table>
<thead>
<tr>
<th>Legacy Value</th>
<th>Percent Complete</th>
<th>Poor</th>
<th>Fair</th>
<th>Code</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>316,400</td>
<td>0.0</td>
<td>79,500</td>
<td></td>
<td>236,900</td>
<td>316,400</td>
</tr>
</tbody>
</table>

Percent of Legacy Value:

- Poor: 25.1%
- Fair: 74.9%
- Code: 100.0%

Poor = VFA Priorities 1,2, and 3; Fair – VFA Priority 4; and Code – VFA Priority 5
<table>
<thead>
<tr>
<th>Legacy Assessment Data: REQ - 55179</th>
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</thead>
<tbody>
<tr>
<td><strong>Date Inspected</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Requirement Category</strong></td>
</tr>
<tr>
<td><strong>Requirement Name</strong></td>
</tr>
<tr>
<td><strong>Condition</strong></td>
</tr>
<tr>
<td><strong>Percent Complete</strong></td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
</tr>
<tr>
<td><strong>Estimated Cost</strong></td>
</tr>
<tr>
<td><strong>Estimated Remaining Cost</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Legacy Assessment Data: REQ - 55180</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date Inspected</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Requirement Category</strong></td>
</tr>
<tr>
<td><strong>Requirement Name</strong></td>
</tr>
<tr>
<td><strong>Condition</strong></td>
</tr>
<tr>
<td><strong>Percent Complete</strong></td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
</tr>
<tr>
<td><strong>Estimated Cost</strong></td>
</tr>
<tr>
<td><strong>Estimated Remaining Cost</strong></td>
</tr>
</tbody>
</table>
### LEGACY ASSESSMENT DATA: REQ - 53163

<table>
<thead>
<tr>
<th>Date Inspected</th>
<th>10/8/2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Regardless of the occupancy, glass doors must conform to the BOCA 2406.1.1and 2 which requires ingress and egress doors to have a manufacturers designation of safety glass. The exterior door at the south elevation did not have this designation. Glazing in ingress and means of egress doors shall comply with and pass the requirements of CPSC 16 CFR; 1201, Safety Standard for Architectural Glazing.</td>
</tr>
<tr>
<td>Requirement Category</td>
<td>Building Code</td>
</tr>
<tr>
<td>Requirement Name</td>
<td>Glazing: Install Safety Glazing @ Egress Doors (Legacy)</td>
</tr>
<tr>
<td>Condition</td>
<td>Critical</td>
</tr>
<tr>
<td>Percent Complete</td>
<td>0.0</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Install safety glazing as required at indicated location.</td>
</tr>
<tr>
<td>Estimated Cost</td>
<td>1,245.00 Estimated Remaining Cost: 1,245.00</td>
</tr>
</tbody>
</table>

### LEGACY ASSESSMENT DATA: REQ - 53574

<table>
<thead>
<tr>
<th>Date Inspected</th>
<th>10/8/2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The auditorium 134 does not have handrails at the stairs leading to the lower seating areas.</td>
</tr>
<tr>
<td>Requirement Category</td>
<td>Functionality</td>
</tr>
<tr>
<td>Requirement Name</td>
<td>Handrails: Lacking at Auditorium 134 (Legacy)</td>
</tr>
<tr>
<td>Condition</td>
<td>Critical</td>
</tr>
<tr>
<td>Percent Complete</td>
<td>0.0</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Install handrails for added safety to access lower seating.</td>
</tr>
<tr>
<td>Estimated Cost</td>
<td>4,804.00 Estimated Remaining Cost: 4,804.00</td>
</tr>
<tr>
<td>Legacy Assessment Data: Req-53220</td>
<td></td>
</tr>
<tr>
<td>----------------------------------</td>
<td></td>
</tr>
<tr>
<td>Date Inspected: 10/8/2002</td>
<td></td>
</tr>
<tr>
<td>Description: The battery room lacks an alarm for high level of hydrogen concentration.</td>
<td></td>
</tr>
<tr>
<td>Requirement Category: Hazardous Materials: Other</td>
<td></td>
</tr>
<tr>
<td>Requirement Name: Hydrogen Gas Sensor: Lacking (Legacy)</td>
<td></td>
</tr>
<tr>
<td>Condition: Poor</td>
<td></td>
</tr>
<tr>
<td>Percent Complete: 0.0</td>
<td></td>
</tr>
<tr>
<td>Recommendation: Install alarm within battery room for high level of hydrogen concentration. Estimated quantities are for budgetary purposes only. Carpenter and painter allocated for cutting and patching.</td>
<td></td>
</tr>
<tr>
<td>Estimated Cost: 3,066.00</td>
<td></td>
</tr>
<tr>
<td>Estimated Remaining Cost: 3,066.00</td>
<td></td>
</tr>
<tr>
<td>Action Date: 10/8/2005</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Legacy Assessment Data: Req-53579</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Inspected: 10/8/2002</td>
</tr>
<tr>
<td>Description: Site staff report the gutters are overflowing during heavy rain storms. On the day of inspection one of the gutters was holding water (see photo) that should have been shed. This may possibly indicate the gutters are not pitched properly. The most effective solution is to remove them and replace with properly pitched system.</td>
</tr>
<tr>
<td>Requirement Category: Integrity</td>
</tr>
<tr>
<td>Requirement Name: Gutters: Replace (Legacy)</td>
</tr>
<tr>
<td>Condition: Poor</td>
</tr>
<tr>
<td>Percent Complete: 0.0</td>
</tr>
<tr>
<td>Recommendation: Replace the gutters at the west elevation pitched metal roof.</td>
</tr>
<tr>
<td>Estimated Cost: 6,789.00</td>
</tr>
<tr>
<td>Estimated Remaining Cost: 6,789.00</td>
</tr>
<tr>
<td>Action Date: 10/8/2003</td>
</tr>
<tr>
<td>Legacy Assessment Data: REQ-53720</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td><strong>Date Inspected</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Requirement Category</strong></td>
</tr>
<tr>
<td><strong>Requirement Name</strong></td>
</tr>
<tr>
<td><strong>Condition</strong></td>
</tr>
<tr>
<td><strong>Percent Complete</strong></td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
</tr>
<tr>
<td><strong>Estimated Cost</strong></td>
</tr>
<tr>
<td><strong>Estimated Remaining Cost</strong></td>
</tr>
<tr>
<td><strong>Action Date</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Legacy Assessment Data: REQ-55560</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date Inspected</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Requirement Category</strong></td>
</tr>
<tr>
<td><strong>Requirement Name</strong></td>
</tr>
<tr>
<td><strong>Condition</strong></td>
</tr>
<tr>
<td><strong>Percent Complete</strong></td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
</tr>
<tr>
<td><strong>Estimated Cost</strong></td>
</tr>
<tr>
<td><strong>Estimated Remaining Cost</strong></td>
</tr>
<tr>
<td><strong>Date Inspected</strong></td>
</tr>
<tr>
<td>--------------------</td>
</tr>
</tbody>
</table>
| **Description**    | There exists ductwork, conduit, pipes, and similar building service equipment, without fire protection, penetrating a fire barrier. This occurs in the following areas:  
  Stair 1 to room 28 below  
  Between 34B, 33B, 25A, 33A  
  Between corridors 29 and 29A  
  Between 32 and 29  
  Between 11 and 9  
  Between 8 and 9  
  Between 10 and 1D, 9 and 11  
  Telco rooms and surrounding corridors on all floors  
  This is not compliant with NFPA 101 Section 8.2.3.2.4.2 |
| **Requirement Category** | Life Safety |
| **Requirement Name** | Fire Barrier: Unprotected Penetrations (Legacy) |
| **Condition**       | Poor |
| **Percent Complete** | 0.0 |
| **Recommendation**  | Seal openings with approved through-penetration firestopping system.  
  Adjustment factor of 1.2 used to account for additional costs typically associated with retrofit work, and/or working with existing construction. |
<p>| <strong>Estimated Cost</strong>  | 29,063.00 |
| <strong>Estimated Remaining Cost</strong> | 29,063.00 |
| <strong>Action Date</strong>     | 3/17/2006 |</p>
<table>
<thead>
<tr>
<th>Date Inspected</th>
<th>Description</th>
<th>Requirement Category</th>
<th>Requirement Name</th>
<th>Condition</th>
<th>Percent Complete</th>
<th>Recommendation</th>
<th>Adjustment factor</th>
<th>Estimated Cost</th>
<th>Estimated Remaining Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/17/2005</td>
<td>There exists a stair 2 double-leaf access door from the lower level. The active leaf blocks more than 50% of the stair width when open. The active leaf should be permanently fixed closed and the active leaf should be the other of the two leaves so that when open, it will not block the width of egress to the stair. The existing condition is not compliant with NFPA 101 Section 7.2.1.4.4.</td>
<td>Life Safety</td>
<td>Means of Egress Components: Door Swing (Legacy)</td>
<td>Poor</td>
<td>0.0</td>
<td>Reinstall stair 2 access doors from the lower level. Permanently fix the leaf closest to the foot of the stair and make the leaf farthest from the foot of the stair an active leaf that swings into the stair from corridor 9. Adjustment factor of 2.0 used to account for additional costs typically associated with retrofit work, working with existing construction, and/or limited-access conditions.</td>
<td>2.0</td>
<td>1,174.00</td>
<td>1,174.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>3/17/2006</td>
</tr>
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## Legacy Assessment Data: Req-57929

<table>
<thead>
<tr>
<th>Date Inspected</th>
<th>3/17/2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>There exists an impediment from the auditorium stage. Furniture is stored in path to stage exit east of stage. A partition has been put in place across the outside of the exit door from that space also. These items must be removed. The door leading to base of spiral stair and patio from lower level room 15 is locked on the building side. The door could not be opened in the direction of egress from the building. These items are not compliant with NFPA 101 Section 7.5.2.1.</td>
</tr>
<tr>
<td>Requirement Category</td>
<td>Life Safety</td>
</tr>
<tr>
<td>Requirement Name</td>
<td>Means of Egress: Impediments to Egress (Legacy)</td>
</tr>
<tr>
<td>Condition</td>
<td>Poor</td>
</tr>
<tr>
<td>Percent Complete</td>
<td>0.0</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Remove furniture and partitions blocking egress path and egress door from auditorium stage. Remove lock from door leading to base of spiral stair and patio from lower level room 15. Door should not be locked in the direction of egress from the building.</td>
</tr>
<tr>
<td>Estimated Cost</td>
<td>1,174.00</td>
</tr>
<tr>
<td>Estimated Remaining Cost</td>
<td>1,174.00</td>
</tr>
<tr>
<td>Action Date</td>
<td>3/17/2006</td>
</tr>
<tr>
<td>Legacy Assessment Data</td>
<td>Req - 58070</td>
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<tr>
<td>------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Date Inspected</td>
<td>3/17/2005</td>
</tr>
<tr>
<td>Description</td>
<td>There does not exist stair identification signs within stair enclosures for Stair 2. This is not compliant with NFPA 101 Section 7.2.2.5.4. 5 or more stories include Lower Level, Ground, Second, Mezzanine, and Third.</td>
</tr>
<tr>
<td>Requirement Category</td>
<td>Life Safety</td>
</tr>
<tr>
<td>Requirement Name</td>
<td>Means of Egress: Stair Identification Signs (Legacy)</td>
</tr>
<tr>
<td>Condition</td>
<td>Poor</td>
</tr>
<tr>
<td>Percent Complete</td>
<td>0.0</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Add stair identification signs within Stair 2 enclosure at each floor landing.</td>
</tr>
<tr>
<td></td>
<td>Adjustment factor of 2.0 used to account for additional costs typically associated with retrofit work, working with existing construction, limited-access conditions, and/or smaller size jobs (less than $5,000).</td>
</tr>
<tr>
<td>Estimated Cost</td>
<td>2,199.00</td>
</tr>
<tr>
<td>Estimated Remaining Cost</td>
<td>2,199.00</td>
</tr>
<tr>
<td>Action Date</td>
<td>3/17/2006</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Legacy Assessment Data</th>
<th>Req - 58072</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Inspected</td>
<td>3/17/2005</td>
</tr>
<tr>
<td>Description</td>
<td>There exists floor door stops and linkages within door closer assemblies that hold fire rated doors open in the following areas: Classrooms, studios, auditorium and paint spray room 24A/11. This is not compliant with NFPA 101 - Section 7.2.1.8.2.</td>
</tr>
<tr>
<td>Requirement Category</td>
<td>Life Safety</td>
</tr>
<tr>
<td>Requirement Name</td>
<td>Means of Egress: Protected Enclosure Openings (Legacy)</td>
</tr>
<tr>
<td>Condition</td>
<td>Poor</td>
</tr>
<tr>
<td>Percent Complete</td>
<td>0.0</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Replace existing door closers with linkage and remove manual door stops.</td>
</tr>
<tr>
<td></td>
<td>Adjustment factor of 2.0 used to account for additional costs typically associated with retrofit work, working with existing construction, limited-access conditions, and/or smaller size jobs (less than $5,000).</td>
</tr>
<tr>
<td>Estimated Cost</td>
<td>22,304.00</td>
</tr>
<tr>
<td>Estimated Remaining Cost</td>
<td>22,304.00</td>
</tr>
<tr>
<td>Action Date</td>
<td>3/17/2006</td>
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</tbody>
</table>