
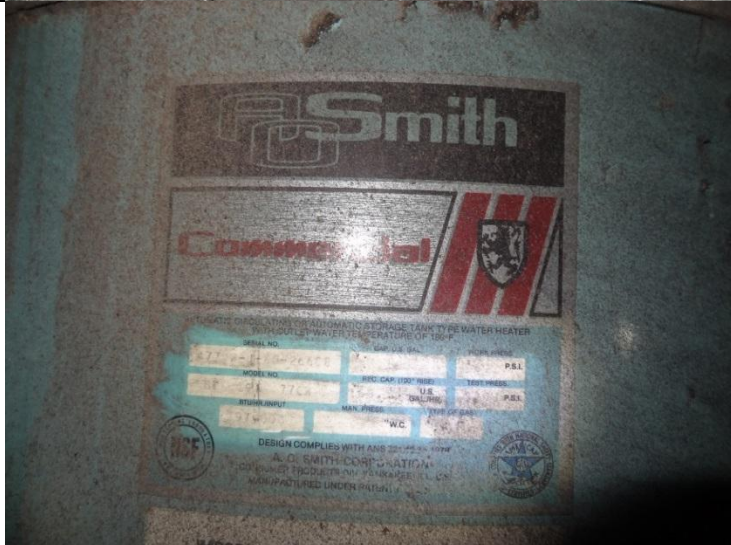


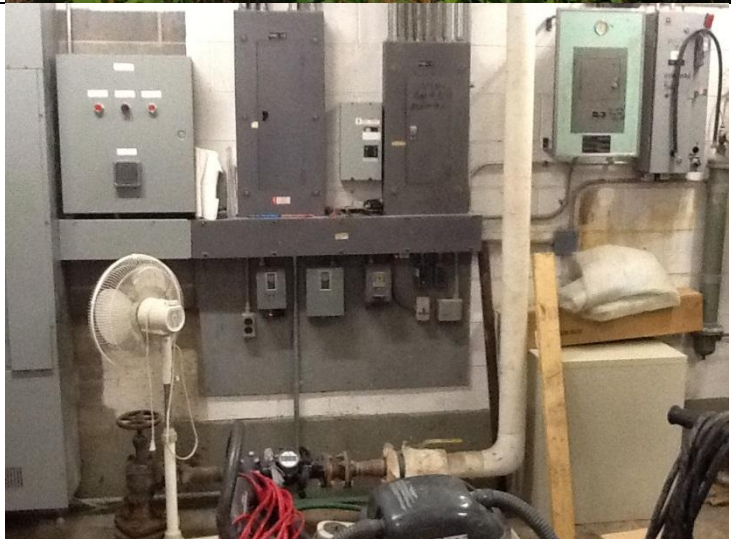



# Rib Lake School District Referendum Project Summary


Project	Project Description	Photo
<b>Heating, Ventilation &amp; Air Conditioning (HVAC) Upgrades</b>	Replace original 1964 unit ventilators and provide dedicated outside air systems using energy recovery ventilators, roof top units and air handling units. Boiler piping will be re configured allowing the backup boiler system to run independently and existing victaulic gaskets on boiler piping will be replaced with fully welded connections to prevent leaking.	
<b>Plumbing</b>	The existing atmospheric venting water heaters are at the end of their service life and will be replaced with high efficiency fully modulating condensing power vented water heaters.	
<b>Roofing</b>	Replace roof membranes that are out of warranty and at the end of their useful life. Repair flashing and transition details	

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<b>Windows</b>	Replace the current non-thermally broken window assemblies with double pane insulated glass units in thermally broken frames.	
<b>Electrical</b>	Provide repairs to the electrical infrastructure including a thermal imaging study to include an analysis on switchgear, panel boards, motor starters, disconnects, variable frequency drives. The study will identify hot spots, overloaded equipment, improper wiring configurations, and other issues to the infrastructure and switchgear	
<b>Building Envelope</b>	Reduce air leaks and thermal energy loss through gaps, holes, and cracks. Provide weather stripping, caulking, and foam insulation in selected areas throughout.	



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<b>Biomass Boiler</b>	<p>Replace existing boiler (heats the middle and high school) with a new 150 horsepower 5 million btu modulating combustion wood fired boiler system allowing green wood to be used. The floor grate and auger system would remain in place.</p>	
<b>Direct Digital Controls</b>	<p>Replace old pneumatic building controls with digital web based building automation, optimizing equipment performance</p>	