

BOWLING ALLEY DEMOLITION VIOLA, WISCONSIN

The existing bowling alley building in Viola, Wisconsin needed to be demolished to convert the site to Green Space. An engineering evaluation was performed to assess the existing conditions and propose a means of demolishing the existing building while retaining the structural integrity of the adjacent Old Opera House building.



The existing bowling alley roof framing elements were disconnected from the adjacent existing Opera House building as outlined within the demolition documents prepared by MSA. The existing trusses were jacked-up slightly and re-supporting by cribbing which consisted of stacked wood railroad ties. While the cribbing did not match the suggest means of support depicted on the demolition documents, it was deemed acceptable in the field. A series of wood bracing assemblies were installed between truss supports as depicted on the demolition documents to protect the existing Opera House walls from potential falling debris. Two excavators were attached to the bowling alley roof trusses via a system of chains. The excavators pulled the existing roof framing to the west until it was able to fall to the ground as depicted on the demolition documents. A portion of the southern wall remained mostly upright after the roof framing fell. The wood bracing assembly at the southeastern corner acted as a shoring device restraining the wall from falling to the north. An excavator was used to peck away at the southern wall and brace until the construction was demolished. No damage to the existing Opera House building was observed associated with the demolition effort.



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