

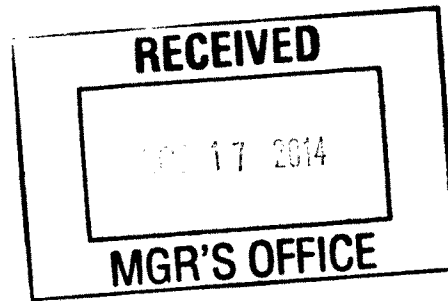
HAWKINS WEIR **ENGINEERS, INC.**

Engineering Client Success

October 13, 2014

Mr. Bill J. Baker, City Manager
City of Sallisaw
P. O. Box 525
Sallisaw, Oklahoma 74955

Re: Structural Evaluation
Old Sallisaw High School
HWEI Project No. 2014074



Dear Mr. Baker:

Per our Agreement for Professional Services, we have performed a structural evaluation of the Old Sallisaw High School and observed the remaining brick walls and rotunda. We took measurements and pictures of the existing brick walls and rotunda, and have analyzed the existing structure for required wind and seismic loads for an existing structure. Our findings are that the existing masonry walls should be removed beyond a distance of 4-feet from the Rotunda. The Rotunda and adjoining 4-feet of masonry walls may remain if necessary repair and maintenance is performed.

The existing brick walls prior to the fire were supported by a floor diaphragm at the base and a roof diaphragm near the top of the existing masonry walls (please see attached Picture 1). The foundation was also designed for vertical load only and not for the overturn caused by a free standing wall. The existing masonry walls do exhibit substantial cracking in multiple locations (please see attached Pictures 2, 3, and 4). For the above stated reasons, we conclude that the existing free standing masonry walls are a danger to public safety and should be demolished as soon as possible.

The Rotunda has a floor slab, ceiling of uncertain construction, roof structure of uncertain construction, and a metal roof. Due to its shape and the presence of a floor and roof diaphragm, the existing structure is capable of resisting the Code required wind and seismic loads for an existing structure. The Rotunda and adjoining 4-feet of wall, if kept, will require some repair and maintenance. Several of the existing windows are broken at the entrance to the Rotunda (please see Picture 5). All damaged windows and openings should be repaired. The slots in the brick of the Rotunda for past floor joists and roof rafters should be filled with low strength mortar that is compatible with the present brick and mortar strength of the Rotunda (please see pictures 6 and 7). The existing brick should be cleaned and sealed to lessen further decay of brick caused by weathering and freeze/thaw. Care must be taken in choosing a breathable sealer such as Silane/Siloxane sealer products.



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If you have any questions, comments, or if further explanations are required, please do not hesitate to call.

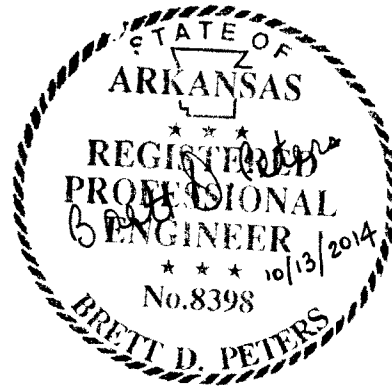
Sincerely,

HAWKINS-WEIR ENGINEERS, INC.

Brett D. Peters

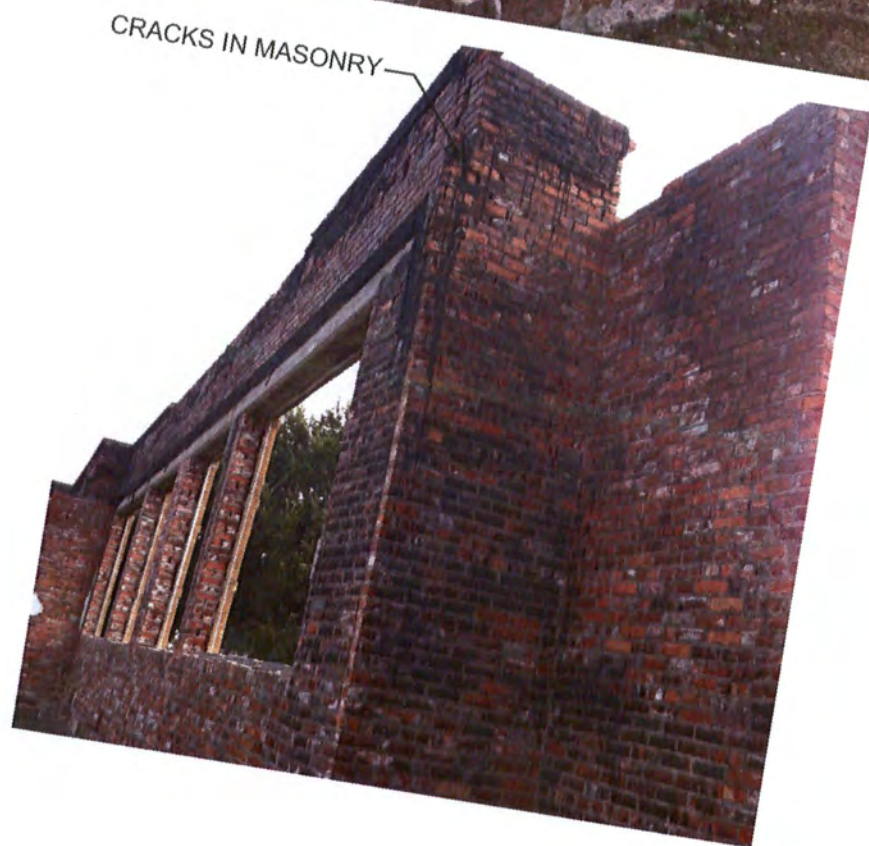
Brett D. Peters, P.E.

BDP/gch
Enclosure: Pictures





PICTURE 1
Shows Existing Masonry Wall
where the floor diaphragm and
roof diaphragm were connected.



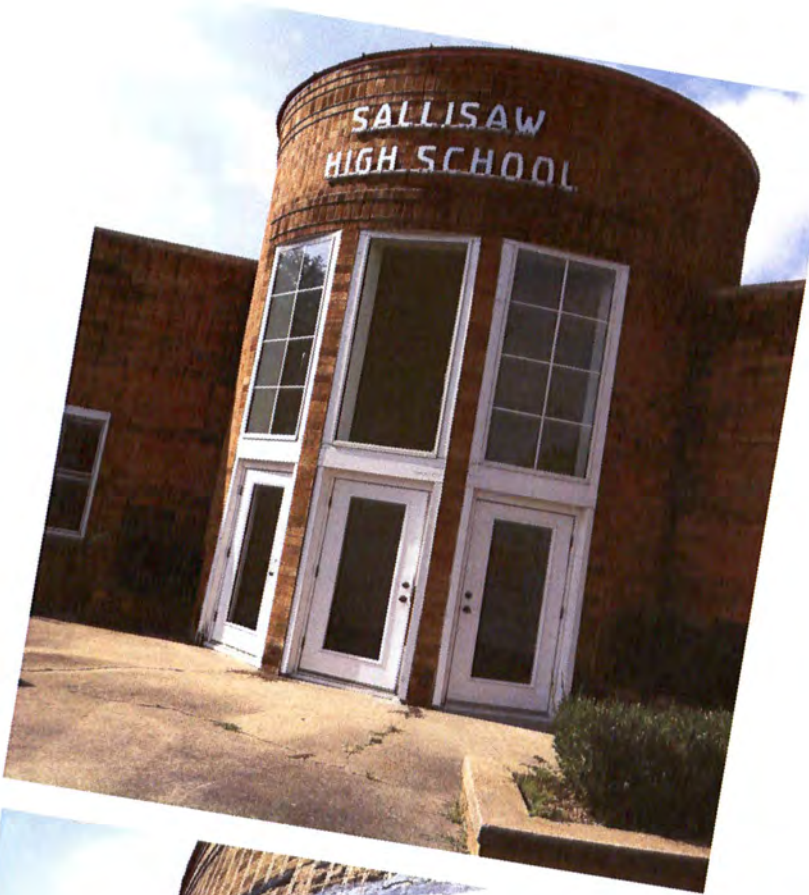
PICTURE 2
Shows Cracks in the Existing
Masonry Wall.



PICTURE 3
Shows Cracks in the Existing
Masonry Wall.



PICTURE 4
Shows Cracks in the Existing
Masonry Wall.



PICTURE 5
Existing Rotunda Front - Broken
Glass should be repaired.



PICTURE 6
Back of Rotunda showing slots in
brick for roof beams.



PICTURE 7
Back of Rotunda showing slots in
brick for floor beams.