

Date: October 12, 2020
To: Ross Black, City of Peoria
From: Farnsworth Group
Re: 2728 W Krause St,

The City requested Farnsworth Group look at a building located at 2728 W Krause Street, indicating it has started to collapse. On Thursday October 8, 2020, Michael Bryant and Ed Barry were on site with Matt Ziller of the City to examine the conditions.

The building's age is unknown and access to the interior was not available. It is a one-story CMU building with a brick veneer on the front. It is about 115 ft long by 50 ft wide and appears to have had a 35 ft addition put on the rear of the building. The walls have exterior pilasters at about 16 ft centers in the front, original portion of the building. The pilasters support what are assumed to be bowstring trusses, based on the arched shape of the roof line. Observations were made of the exterior and the roof via a ladder. Aerial images from Google Earth shows what are assumed to be tarps or patches in the roofing.

At the time of the inspection, the awning on the front of the building had distorted, rotating up by an estimated 25 to 30 degree angle. The front of the building had bowed outward by several inches at the top, just below the awning. The sidewalls at the 1st pilaster had also visibly displaced outward and the pilasters were cracked. Using the ladder to access the roof, it was found that the 1st truss had failed. This truss is located 16 feet from the front of the building.

The City expressed concern about the front of the building collapsing onto the sidewalk and indicated they had already communicated with Public Works to have that area barricaded.

It is the opinion of Farnsworth Group that the building roof truss collapse has caused the roof purlins extending to the front of the building to rotate causing the observed distortion in the front of the building and we conclude there is a concern for the front of the building to collapse. We agree with the City's decision to barricade the sidewalk. There is also concern for progressive failure of the rest of the building should the roof failure cause an overload to the next roof truss.

Farnsworth Group recommends the building be condemned and the front 32 feet be demolished immediately to limit the potential for ongoing failure and collapse. The condition of the remainder of the building cannot be determined without access to the interior, but at this time such access is judged not safe.

Thank you,

Michael Bryant, PE, SE
Engineering Manager
Licensed Structural Engineer
Illinois License No 081-005324
Expires November 30, 2022





Photo #1 Front of Building



Photo #2 Front of Building



Photo #3 Front of building, awning rotation



Photo #4 Cracking in 1st pilaster



Photo #6 Failed Roof



Photo #7 Failed Roof



Photo #8 Failed Roof