

Fabian Salazar
Air Safety Investigator
Western Pacific Region

Date: September 19, 2023

Subject: WPR22FA151 / Memorandum for Record Elevation Survey of Gem State Processing

On October 22, 2022, the investigator in charge (IIC) travelled to the Gem State Processing Plant, located in Heyburn, Idaho. The IIC provided oversight while an employee of TD&H Engineering conducted a survey of the property to determine the elevation of areas of interest. The following mean sea level (msl) elevations were documented. (figure 1). The Agglomerate stack was struck by the airplane and damaged to the extent that the top of the stack was inaccessible. The next nearest stack was measured. A copy of an engineering drawing that showed the Agglomerate stack was 100 ft above the ground/floor elevation is figure 2.

- NGS X423 Benchmark (Bridge) was: 4154.63 ft msl.
- The elevation of the parking lot abeam the accident stack was: 4157.83 ft msl.
- The elevation of the base of the accident stack (rooftop) was: 4190.15 ft msl.
- The elevation of the top of the eastern most stack in the line of six stacks was: 4256.93 ft msl.

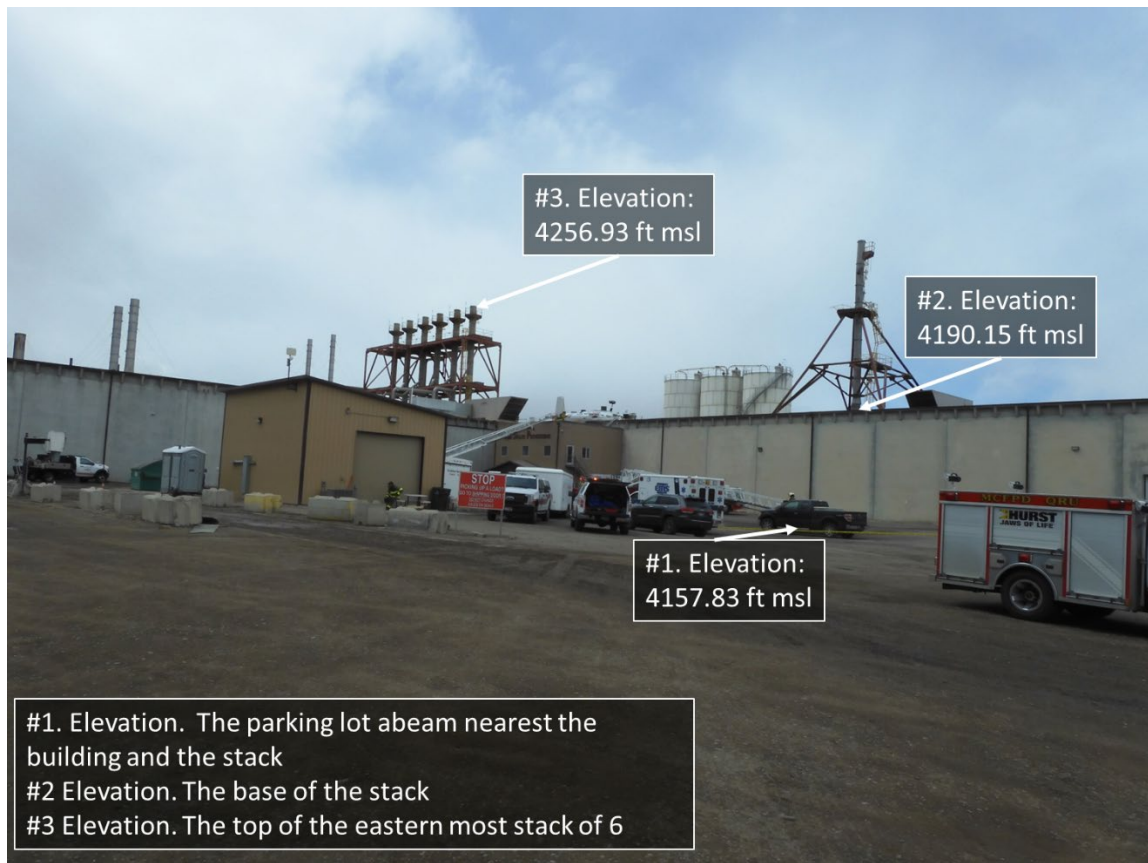


Figure 1. Image detailing elevations in mean sea level.

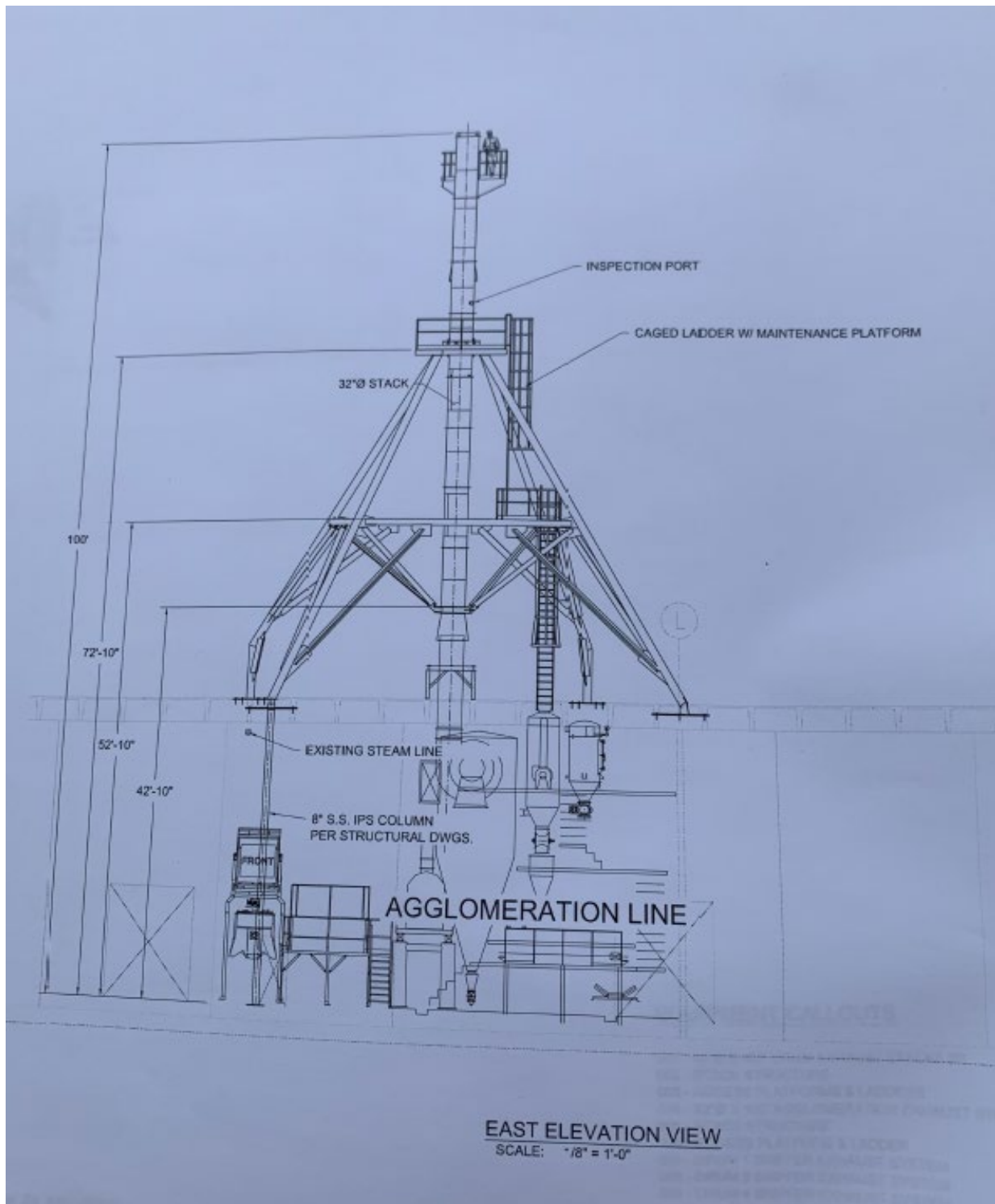


Figure 2. Copy of engineering drawing of the Agglomerate stack. Image courtesy of Gem State Processing Plant.