

**DATE:** January 6; 10:00 am – 11:00 am

**WORK IN PROGRESS:** Cutting out of existing mortar joints for repointing; removal of non-original stone at cheek walls; removal of stone specified to be replaced

**PRESENT AT SITE:** Carl Young, Kim Trujillo/Huerfano County; Dan Rathbun/Mountain Masonry; Danielle Lewon/SHF; Kate McCoy/CPI; Tim and Kris Hoehn/HAPC

**DISTRIBUTION:** All present; Mike Madone/Mountain Masonry; Donald Harvey/ANA

**NOTES/OBSERVATIONS:**

1. The primary purpose of this site visit was to review the condition of the cheek walls at the main east entry. Upon removing the outer layer of non-original stone, the original sandstone was found underneath; the original cheek walls align with the north and south tower walls.
  - a. The original sandstone at both the north and south walls is in poor condition with significant surface spalling and damage from the installation of the outer layer of non-original stone. It was determined during this site visit that the sandstone should be replaced in-kind, matching the sizes as closely as possible. (Re: Photos #1 - #4.) Temporary shoring to support the porch columns and floor will be required when the stones are replaced in order to prevent any settlement.
  - b. Removal of the original sandstone revealed a rubble stone back-up. All voids should be filled with mortar or stone if the voids are large, similar to the treatment of the rubble at the tower.
  - c. The top course of original stone at the porch deck had been cut to accommodate the current brick tile floor set in a thick mortar bed. When the top course is replaced with new stone, the brick tile floor will have to be cut back to allow for the installation of the stone, which should be the same width as the column bases. A detail for the termination of the brick tile floor at the new stone is required.
    - i. Carl would like to add guardrails for safety and to meet building code requirements on the north and south sides of the entry porch. Danielle approved their installation as long as they are attached to the floor rather than the columns.
  - d. It was observed that the entry steps were originally sandstone, now covered with brick tile. The replacement of these steps is not in this project's scope of work.



Photo #1: West end of south cheek wall with original sandstone exposed after the outer layer of non-original stone was removed.



Photo #2: East end of south cheek wall showing deteriorated condition of original sandstone.



Photo #3: East end of north cheek wall with exposed original sandstone.



Photo #4: West end of north cheek wall. Some of the non-original stones have not yet been removed.

2. A stone at the south side of the east wall was called out to be refaced. When the stone was removed, it was discovered that it is too thin to reface so the consensus was to replace the stone in its entirety. (Re: Photos #5 & #6.) Dan reported that he has found that the stones vary in thickness so there may be other similar conditions where refacing was specified but replacement will be required.



Photo #5: The stone at this location at the south side of the east wall was specified to be refaced.



Photo #6: The stone is not thick enough to be refaced so it will be replaced instead.

3. One of the masons noted that stones on the west jamb of the second floor window on the south tower wall are deteriorated. These stones were not called out on the drawings to be replaced but it was agreed that they should be as part of this project. (Re: Photo #7.)
4. The condition of the stones below the first floor window on the south wall of the tower was reviewed because the documents call for all of the stones at the infilled opening to be refaced; Dan thought one

or two of the stones could possibly be salvaged. Following review, it was decided to reface all of the stones as called for on the drawings. (Re: Photo #8.)

5. The original sandstone removed from the previous tower rehabilitation project is stored in the north yard. The County has given permission to reuse them. This stone will be ideal for the replacement of single stones surrounded by original sandstone and in locations with no skyward faces that could cause the stone to deteriorate. They should also be tooled so there are no projections that could catch water. New replacement stone will be coming from Quarra Stone or another supplier.

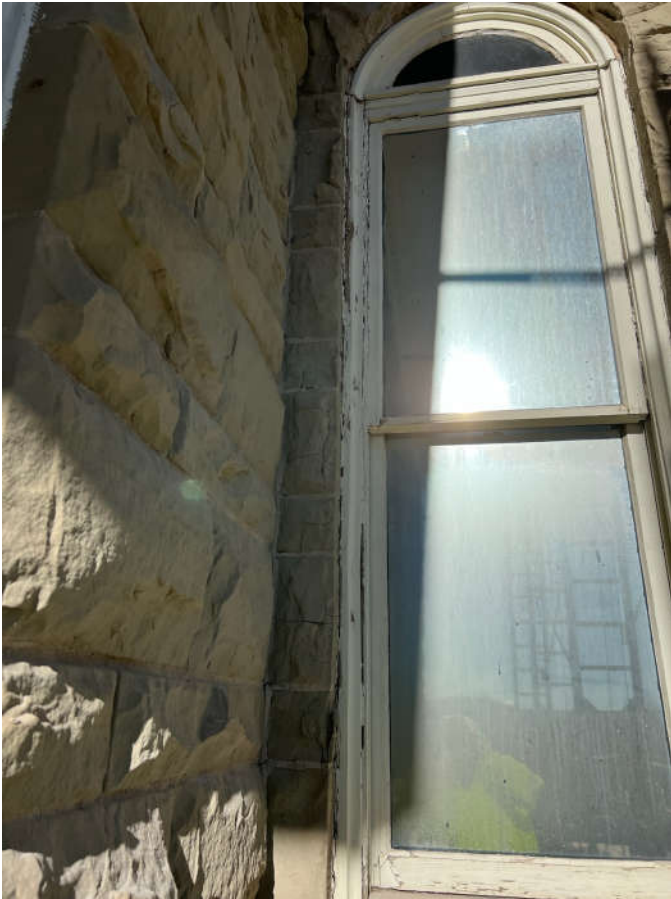


Photo #7: The stones on the west jamb require replacement. (Photo by Mountain Masonry)

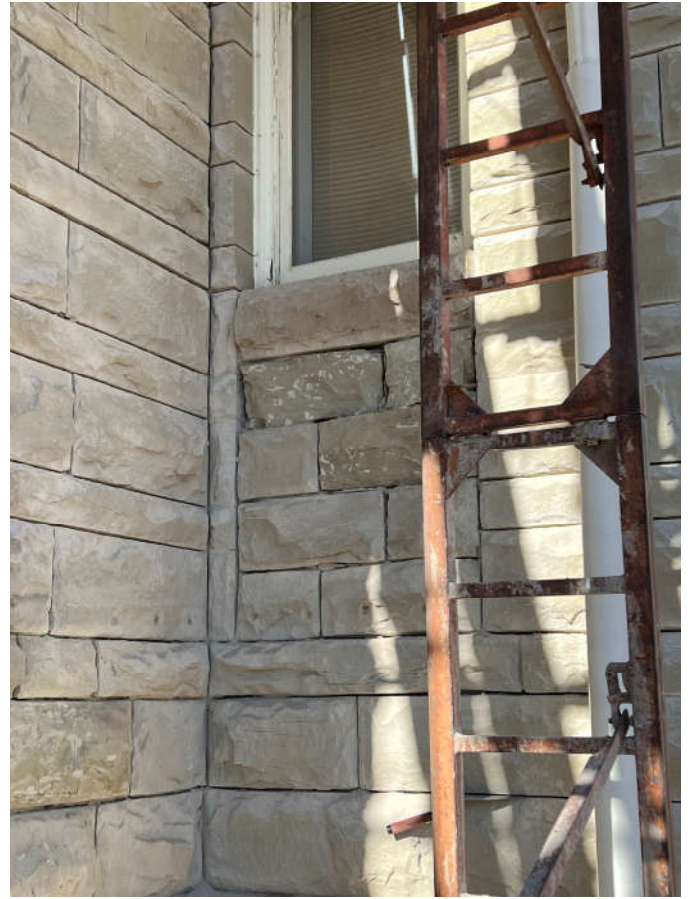


Photo #8: The stones below the window at the infilled opening are specified to be replaced.

End of Field Report No. One