



Steamboat Engineering And Design, Inc.

February 17, 2021

Mr. Ted Allen
Routt County Regional Building Department
Via email: tallen@co.routt.co.us

Reference: Foundation Field Change Letter – Revised
Salt Shed Apartments
Hayden, CO
Permit No. B-20-1105
SEAD Job No. 20111

**RCRBD Record Set
T.A.**

02/18/2021

Dear Mr. Allen,

Steamboat Engineering And Design, Inc. (SEAD), has reviewed pictures, spoken with the contractor overseeing the foundation construction, and visually inspected the foundation forms of the Salt Shed Apartments in Hayden, CO.

During excavation, an existing concrete Deadman anchor was discovered in the way of the new foundation wall specified on the construction drawings. SEAD has reviewed this condition, and believes the new concrete wall will be acceptable if interrupted and poured up to either side and above the existing concrete Deadman foundation. SEAD recommends a separation joint of ½" Celotex or felt at minimum be placed between the existing and new foundations to prevent differential movements from affecting each other. Based on visual inspection of the existing condition of the Deadman foundation, it does not appear that the foundation has experienced movement that would affect the proposed foundation wall. At the time of the inspection, there was slack in the guywires indicating that the Deadman was not actively resisting loading. SEAD believes the Deadman anchor may resist wind loading when present, and noticed that the steel column had been twisted at some point in history, but there were no indications that the concrete foundation has exhibited movement.

The proposed concrete foundation wall may be poured above the Deadman footing, and shall span approximately 3ft over the Deadman foundation. The height of this wall section above the Deadman foundation is approximately 37 inches tall, and shall be reinforced as specified on the construction drawings and with (2) #4 continuous horizontal bars at the bottom of this wall segment. No footing is needed below this segment of wall. SEAD also recommends that an impervious backfill soil or surface drainage be provided at this intersection so that exterior ground or surface water does not enter the proposed crawl space.

SEAD does not have enough information to analyze how the existing Deadman foundation will be affected by this construction. The Building Inspector voiced a concern that the Deadman may be affected by a reduction of backfill where the new crawlspace is located. Based on SEAD's review of this condition, the reduced backfill would be located to the side of the Deadman foundation, where it is unlikely to provide lateral resistance. SEAD was informed that the guywires connected to the Deadman foundation are supporting the existing tower of the granary. The most critical backfill that SEAD would consider is needed to support the Deadman foundation would be located parallel to the guywire, which

is to remain. SEAD believes the exposure of the side of the Deadman foundation where the new crawl space exists to be acceptable.

Please feel free to contact us with questions.

Sincerely,

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