Status of Stabilization Work as of Today (11-27-17)
Phil Gregory, G.E.
Cal Engineering & Geology, Inc.

Demolition

Demolition work on 3101 and 3103 Grey Eagle Drive has been completed by ESR with the exception of existing foundation piles which were to be removed during grading.

Stabilization Measures

Continued readings of subsurface instrumentation has resulted in revision of the stabilization design. The process continues to be an iterative design due to the complexity of the subsurface conditions. ESR and Ryan Geological Consulting (Ryan) are working together to revise the design based on information from the most recent inclinometer installed near 3113 Grey Eagle and observations during some additional exploratory trenching completed last month. CE&G is reviewing and discussing changes with ESR and Ryan. The work scope has been modified in order to reduce the potential for grading-induced distress that could have resulted had the original grading repair plan been started as previously envisioned.

The current scope of stabilization measures as currently planned by ESR and as reviewed by CE&G include:

- 1) Phase 1: Piled retaining structure with tiebacks below the building at 3113 Grey Eagle Drive. Piles will be 40 feet deep with two rows of tiebacks and about 20 feet tall of buried wall. Work includes 13 piles and six tiebacks. This should be considered Phase 1 of the stabilization work and is being done to protect 3113 Grey Eagle Drive. This work will require minor grading to accommodate drilling and construction equipment. The work will be a change to the contracted work. ESR is in process of preparing change order request with scope and cost. The design has been submitted to the City of Walnut Creek on an emergency basis. ESR has begun winterization and erosion control work associated with this phase of the project. Grading required for the drilling operations will take place this Tuesday and Wednesday with drilling to start on Thursday or Friday. Drilling and placement of steel and concrete for the piles should take about four days. Drilling spoils will be left on site until the piles are completed and the material will then be hauled off site.
- 2) Phase 2: Stabilization of head scarp area within the pad area for the demolished building at 3101 and 3103 Grey Eagle Drive will consist of a combination of selective cut (and off haul) grading of the building pad area and construction of a piled retaining structure with tiebacks. The structure will be configured to be an extension of the Phase 1 retaining structure. The work will also include the construction of additional stitch piles in the lower portion of the former pad area. This phase of work is essentially in lieu of the previously planned grading repair work which ESR's contract was based. The re-design of this is currently being completed by ESR and Ryan and will be reviewed by CE&G and then eventually forwarded to the City for review and permitting. Phase 2 of the work will follow Phase 1 and will be completed weather-permitting starting in mid to late December. The work can be constructed during light rain (less than ¼ inch).

for a day) and can be reasonably stopped and restarted without much delay. ESR anticipates that the work will be completed in approximately 20 to 30 working days.

3) Phase 3: Dewatering wells will be constructed on the Mutual 68 property in yet-to-be-determine locations. The wells will likely need to be discharged through the Golden Rain Foundation property. The design of the wells is being completed concurrent with the Phase 2 design analyses and plan preparation.

Comments Regarding Scheduling and Cost

ESR is revising their schedule and cost proposals based on the most recent instrumentation and subsurface exploration.

Phase 1 work is the more critical, priority work that must be completed in order to protect the 3113 Grey Eagle property and is underway. Phases 2 and 3 are needed to stabilize the upper portion of the Mutual 68 property at 3101 and 3103 Grey Eagle Drive and to reduce the potential for future movement of the landslide on the Golden Rain Foundation property. Phases 2 and 3 could potentially begin in mid to late December (weather permitting).

ESR is redesigning the stabilization measures to remain as close as possible to their current cost proposal. However, the increased work needed to protect 3113 Grey Eagle will increase the cost.