



**CR17 Rockslide
Update for Assessment & Mitigation
7/23/19**

- All of the Phase 1 work at the CR17 rockslide (assessment and scaling) was completed by Friday, June 28. The site was cleaned up for the holiday week.
- The Phase 2 work (drilling, grouting bar, netting, tightening) commenced on Monday, July 8 and the drilling of 30 holes was completed on Friday, July 19 and the grouting of all bolts and anchors was completed by Monday, July 22.
- The mesh will be installed and bolts tightened on Wednesday and Thursday this week after the grout cures. At this point, the road will be safe for rock removal, work on the gas pipeline, Hilfiker retaining wall repair, and road repair/regrading.
- The contractor will be working with the County Road & Bridge department to supply equipment and haul rock materials during the clean-up and wall repair. Earth Tech West (ETW) will break up the larger rocks for the County to haul and clear access to the largest rock that is embedded in the roadway for Black Hills Energy (BHE) to assess.
- BHE will use an excavator or vacuum truck on Thursday (7/25) to expose their gas pipeline and determine methods for rock removal. ETW and the County will break and remove the rock. BHE will install a temporary bypass, excavate and replace a section, backfill, remove the bypass, and re-establish full flow (from the current low flow of 40 psi). The estimate is for the gas pipeline repair to be complete the end of next week (8/2).
- Work on the Hilfiker retaining wall will take roughly 5 days and may be able to be completed concurrently with the pipeline repair. If not, the wall repair will occur after the gas pipeline is repaired. The County will assist ETW with materials for the wall.
- The County will perform final grading of the road.
- Estimated completion is by Friday, August 9th.



Photo 1 – Drone view of upper slab with bolts.



Photo 2 – Slab and footer with bolts.



Photo 3 – Grout plant for grouting bolts in place.



Photo 4 – Large rocky debris at base of mitigated slope.



Photo 5. View south at debris on roadway.



Photo 6. Drilling buggy on the upper slab.

