

MEETING MINUTES
ELM STREET ROCK SLIDE, PROGRESS MEETING NO. 15
conducted at the site trailer on Elm Street, Montpelier, VT
Wednesday, April 26, 2006
10:00 a.m. - 11:00 a.m.

Attendance:

Tom McArdle, City of
Montpelier

David Marcoux – [Janod Contractors](#)

Steven Millard, Golder
Associates Inc.

Tom Eliasson – VTrans

Topics of Discussion:

1. Drilling:
 - o The drilling is complete except for the following: 9 rock dowels, 7 cable anchors, 5 crest anchors, 4 drain holes, and 1 cable anchor test point.
2. Grouting:
 - o Use of the high capacity grout pump has made tracking injected grout volume of each anchor unfeasible. Janod is being relied upon to contact Golder if they believe that the volume of grout injected is inadequate.
 - o The anchors that have been left without dry-pack during the drilling process will be blown clear prior to being dry packed flush with the rock face.
3. Shotcrete Plated Rock in 4b:
 - o The design of the 7'x12' plated rock includes 6 – 6' #8 bar pins with bearing plates, 4 - #4 GR 40 continuous walers behind the pinned plates at 2" from the outer surface, 1 – 18', 1 – 25', and 2 - 30' rock dowels with plates bearing on the outer shotcrete surface, and 6" to 8" of shotcrete which bears on competent rock ledge at the base of the plated boulder.
 - o VTrans suggested using lean mix grout to fill the voids encountered during drilling. Golder will review this option.
 - o The City suggested installing drain holes below the plated rock. Golder will review this option as well.
4. Structural Shotcrete Wall:
 - o Golder provided clarification for the reinforcing steel design in order to assist AUS with the installation. AUS is currently installing the last layer of reinforcing steel.
 - o Golder has been regularly rappelling onto the structural wall in order to make visual inspections of the shotcrete surface and to "sound" the cured sections of shotcrete.
 - o AUS nozzleman Rick shot two shotcrete test panels on 4/23/06. Janod delivered the panels on 4/25/06 to VTrans in Barre.
5. Survey Support:

- VSE was onsite 5/1/06 to provide horizontal and vertical control points for the moment slab on Cliff St. and to survey the anchors that are in the roadway on Elm St.
6. Area 4B Rock Drape:
- All materials needed for the rock drape are onsite and Janod is prepared to proceed with the installation.
 - Golder will lay out the rock drape cable and crest anchors this week.
 - Janod will wait until anchor lay-out is complete until choosing a drilling method and drill bit diameter.
7. Grout Testing:
- Golder collected a set of nine grout cubes for testing on 4/29/06
8. Clean Up:
- Janod will use its aerial lift and a fire hose to wash the fine dust and loose debris from the rock face starting on 4/30/06. Once the face is washed, areas to receive dental shotcrete will be identified by Golder.
9. Cliff Street Guide Rail Design:
- Golder intends to deliver the final design drawings on or before 5/2/06.
10. Work Completion:
- Janod intends on delivering the site to The City on 5/6/06.
 - The City will be onsite 5/8/06 to complete clean up and roadway repair work.
 - The City will secure a contractor to provide the installation of the chain-link fences at the base of Area 4B and northeast of Area 2.
 - The City anticipates completing all DPW tasks by 5/13/06 assuming good weather and no unanticipated delays.