

Minutes of the Friends of Lapham Peak Snowmaking Committee
Delafield Library
August 28, 2018
6:00-7:45 PM

Present: Anne Riendl, John McCarthy, Joe Stuber, Mark Baumann from Core & Main, Rich Marusinec, Charlie Ritter, Beattle Adelmeyer, Jim Bostrom

Next meetings reminder: All meetings at 6:00 PM at Delafield Library - September 25, October 16th, November 6th, November 20th, and December 18th.

Minutes of August 14, 2018, approved: Jim B has notified Mary Ellen B. to distribute and post the minutes to the website.

Lapham Peak Ski Club: Event schedule with monthly meetings is being finalized. Big kickoff meeting proposed titled "Beer & Gear" with silent auction at the Hausmann Nature Center, Friday November 2.

Detailed Discussion of Water Pipe Laying: John McCarthy led the discussion and explained our plans for Phase 3B to our pipe supplier Mark Baumann of Core & Main. We will order 1500' of water pipe which includes 100' extra if needed. This amount of length will run from Summer Stage south into the woods, then east through the dark connection and end at the intersection at the base of two tier. Mark Baumann is going to order the pipe without a purchase order from us just to get things going while the final details are worked out. Tentative plan to break ground is October 22.

Comments from Mark Baumann of Core & Main

- Fusion butt welds are strongly recommended over electrofusion welds. Electrofusion welds can be minimally used if needed.
- Pre-stage as much joining as possible above ground. Plan 3-4 hours for joining anything in a trench. We plan to pre-build 3 sections, possibly 4, which would mean 2 or 3 in trench connections.
- When joining in trench, plan butt welds in straight sections.
- The pipe size we are using has a minimum bend radius of 14'. The tightest radius our plans call for is 28', so we are good.
- C&M will bring 412 Tracstar for joining, as the 412 is better in the trench.
- C&M will bring chain bar(s) to turn piping in trench.
- C&M will bring torque wrench to properly torque bolts for blind flanges and such.
- C&M will bring "Mike" back for this install as he was excellent last time.
- Resilient gate valves will be used.
- C&M's skilled joiners are certified every 2 years and join pipe daily. While they would be willing to train us to do some joining, our best option is to leave it to the professionals to get it done in the most efficient manner with the highest quality.

Electrical Discussion For Phase 3B Install: Rich detailed his recent electrical circuit mapping with Al Binkleman. Rich and Al, assisted by Joe and Anne at times, mapped all of the circuits used in snowmaking. Some surprises were found and are now documented on the map created by Rich. The purpose of this exploration was to be sure we have enough power to supply not only the expansion this fall, but also to be sure the line we lay will have the capacity to power us to the top of Two Tier. We have 4 main circuit panels at the Evergreen trailhead labeled A,B,C, and D. Our best option is to use

circuit A (400 Amp) which feeds panel AA which is located near the pump house. There is a sub panel off of panel AA. Using 500 MCM cable from this panel should provide us with 465 Volts at the end of our 1400' run while running 3 guns. When we expand to the top of Two Tier, we should still have 450 Volts available, which should also be able to run 3 guns. 1,550' of 500 MCM cable and pedestals are to be ordered this week. We will use 60 Amp breakers. This time 8' ground rods will be installed at each pedestal, as recommended by Al Binkleman.

We estimate a \$60,000 donation value for the Green Sheet for the NRB meeting for this falls project. Anne will let Anne know.

Respectfully submitted by Jim Bostrom