

allow access to the Outback and Northwest zones via Ed's Garden. Snowmaking will be extended from the proposed top of Red to the existing snowmaking on Thunderbird. The tubing hill will be removed from the area between the West Village Ski and Sports building and the Red Chair; the proposed Alpine Training Center will be constructed in that space. Some renovations may also be needed on the trails themselves to suit the needs of the race courses; this will be determined in conjunction with the future users and may include limited tree removal, minor grading and underground or on-ground services, such as timing and communications cables. The use of these slopes as an Alpine Training Center will only occur after the tubing slopes are moved across the parking lot.

The "headquarters" for the Alpine Training Center will be a 2-storey building with a footprint in the range of 2,500-3,000 square feet in size. The center will contain meeting rooms, restrooms, equipment storage, etc., and will be installed at the bottom of the training area. Small start huts and finish huts will also be installed where needed, along with the associated power and communications lines required.

#### **Snowmaking Expansion (Medium Term development)**

→ Mt. Bachelor's current snowmaking system covers approximately 30 acres stretching from the top to the bottom of the Pine Marten lift, quite a small proportion of its skiable terrain. It is proposed to expand that system moderately, basically extending into the Sunshine pod, connecting the existing snowmaking to the top of the Red Chair and extending the snowmaking coverage to provide snow cover to the top of the Olympian run from both the Pine Marten and Skyliner lifts (see Figure 20). In order to cover this expanded area (25.4 acres) to a depth of 2 feet, a further 9.1 million gallons of water would be required (a rough estimation assuming an industry average conversion factor of 0.55 ft<sup>3</sup> of water required to produce 1.0 ft<sup>3</sup> of snow (4.1 gallons water = 1 ft<sup>3</sup> snow)).

The existing water wells (one at 700' deep and one at 1,100' deep), have a capacity of about 1,600 gpm, which should be adequate to expand the snowmaking as described above, theoretically supplying the required water in a total of 4.2 days if it were running at maximum capacity constantly (an improbable situation as the snowmaking system will likely not be designed for these capacities). Mt. Bachelor also has a surface water permit to Todd Creek for an additional 50 gpm.

As the snowmaking pipes age, they will begin to corrode and will need to be repaired or replaced. Much of Mt. Bachelor's snowmaking system is only about 7 years old, therefore, pipe replacement is not an immediate concern, however it will need maintenance and/or replacement in the future.