

Third Gate Road Maintenance, 2013/14

Rev. 05/05/14, bsc

Spring 2014 [~\$5,000]:

- ~~1. Load grindings at bridge, pond (, Quarry above Big John?)~~
- ~~2. Touch up (grading/rock) from Winter wear & tear.~~
- ~~3. Ensure bridge approaches crowned for drainage.~~
- ~~4. Culvert above bridge (icing)~~
- ~~5. Replace culvert on Third Gate (S33/S63) & address blocked diversion & damage down the hill.~~
6. Potholes filled [~\$300, local labor].

Fall 2014

1. Ensure all ditches pulled and culverts open (El Nino, expected to be high rainfall).

Spring 2015

1. Repairs from Winter rains
2. Rock and grading

Future Considerations:

1. Keep bridge approach crowned to keep dry & reduce potholes.
2. Bridge extensions (perforated sheets, welded/buried ~8-12" down, ~4-8' out, covered w/geofabric, cobble, fines or asphalt) to stop erosion of material on approaches into stream (also pothole reduction via hard-soft transition).
3. Install ~15" culvert (or **tilt road / rolling dip**) at flat by W05 due to drainage issues and potholes.
4. ** Dig out culvert head, tail areas & minor rubble rock as needed for erosion control (also silt traps/micro ponds for settling), ~1 mile/year to enhance drainage and increase visibility of culverts during maintenance. [~1500/year?]{backhoe}
5. Fabricate, install culvert markers (painted rebar w/reflector tape)?
6. Re-weld defective welds on railing receivers along east-south end of bridge (or remove railings altogether).

General Notes:

1. A transfer (dump & trailer) costs ~\$700. Coverage: ¾" drain = ~500', ¾" w/fines = ~250'.

2. 3rd Gate has approximately 8 miles of roads. Min. rocking for high traffic areas is 30yd³/mile (rock & grade ~\$3K/mile).
3. Use asphalt grindings for surface rock needs as available (purchase/stockpile?!) due to elasticity, lower dust levels and ease on member's tires.
4. Use Gates' map for location guidance.

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