

Third Gate Road Maintenance, 2013/14

Rev. 10/01/13, bsc

General Notes:

- SWARM has been working to all through roads in the community reshaped (to ensure proper drainage). This has been going on for the last 2 years and should be completed this season.
- 3rd Gate has approximately 8 miles of roads. Min. rocking for high traffic areas is 30yd3/mile (~\$3K/mile).
- Use asphalt grindings for surface rock needs as available (purchase/stockpile?!)
- Use Gates' map for location guidance.

January Work [~\$14,500]:

1. ~~Load grindings to soft spots on section completed in the Fall & touchup (Sherwood → Pond, incl. bridge approaches). [~\$300]~~
2. ~~Load grindings stockpiled by bridge. [~\$250]~~
3. ~~Crown approaches to bridge (ref. drainage causing potholes). [~\$150]~~
4. ~~Drainage cut again above bridge (Sherwood side, w04) due to runoff over road (& icing). Also, anywhere else on way to pond where needed. [~\$300]~~
5. ~~6"+ cobble (pile ~0.6 miles down 3rd Gate from pond, S60) → diversion at w26 (Burton's old property). Also just below pond at s37 and at hill along s44/s45. {backhoe} [~\$200]~~
6. ~~Drainage at s36's berm (before pond) {backhoe?} [~\$75]~~
7. ~~In pour to pond dug out @ s65. [~\$75] {backhoe}~~
8. ~~Culvert dug out / breakthrough east berm, just past unk #1 on Skyview backside (~s8) [~\$75] {backhoe}~~
9. ~~Continue (rock/grade/shape) around loop, starting with Skyview & around to Big John (to gate there). For spurs, go ~100' down each. Skip s22, do Third Gate, back to pond, ~4 miles, pulling ditches (drainages) and adding asphalt grindings. Same for 1st ¾ mile Boogie Woogie (avoid basin due to moisture). Where no driveway culvert, cut drainage. Expect ~30yd3/mile (~3 xfers), but more ok where needed. [~\$12,500]~~

Spring 2013 [~\$700]:

1. Potholes filled (assess & estimate costs/hire worker).

Need to schedule for later in Spring/Summer [projected costs not yet ascertained]:

1. ~~Removal of one culvert (a), replacement of second (b), new third (c) at locations to be shown along s22 and around corner to Skyview. Appropriate cobble and ditching following. {backhoe, water truck}~~
2. ~~Culvert at old quarry near Big John @ s55 (8-12" ok, providing additional diversion for s22) {backhoe}~~
3. ~~Grade and rock s22 following culvert work, ensuring proper drainage and surfaces. {grader, water truck}~~

Fall 2013 [~\$13,000]:

1. ~~Exposed culvert (below Burton's old place on way to pond) covered [~~~\$400~~].~~
2. ~~Boogie Woogie grade/rock (shaping, last section to do)(~1.3 miles to last turn around location). Note, **this needs to be done before the rains start** due to mud. Also, grade first, then rock later (3/4" drain w/o fines) for same reason. [~~\$4600~~]
~~{grader, water truck}~~~~
3. Addition of 18" culvert above bridge (Sherwood side, w04) regarding previous drainage breakthroughs and winter icing. [~~\$2000~~]{backhoe}
4. Grade and rock Sherwood -> pond (highest traffic)(~1.2 miles). [~~\$4000~~]
5. Grade & rock hills at Brownie's (Skyview), Jackson (3rd Gate), Rich's (3rd Gate) (high wear/wash boarding). [~~\$2000~~]

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. Potholes filled [~~\$600, local labor~~].

Future Considerations:

1. Keep bridge approach crowned to keep dry & reduce potholes.
2. Bridge extensions (perforated sheets, welded/buried ~8" down) to stop erosion of material on approaches into stream (also pothole reduction).
3. Install ~18" culvert at flat by W05 due to drainage issues and potholes.
4. ** Dig out culvert head, tail areas & minor rabble 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. Re-weld defective welds on railing receivers along east-south end of bridge.
6. Fabricate, install culvert markers (painted rebar w/reflector tape?)?
7. Fabricate, install replacement signage (right-of-way to uphill, speed limit, etc.)?
8. Increase tree population along roads, especially barren stretches [slope stability, road surface protection, ground water retention, animal/bird species diversity]. Start with spreading coyote bush [high animal/bird species diversity and tree seedling protector], encourage owners to (trans)plant natives.

General Notes:

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

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