

The Clermont County Park District and ODOT's conceptual restoration plan:

1) Area around the Stream A (UT-A) culvert: this area will be over seeded using ODOT's 3C Crown Vetch Mixture. Using the seed rate in CMS 659.09-1, we would be looking at 15 to 30 lbs. of seed. This will help to stabilize the area, reducing the erosion. This operation will need to take place during late August per CMS 659.12. Since there is already some ground cover existing at this location, it is not anticipated that mulch will be needed to retain the seed.

2) Erosion area along west side of the trail between the UT-A and UT-B culverts: The log that exists in the streambed will be cut and placed at the toe of the slope along with other woody debris to act as bank stabilization at the edge of the stream. The log can be cut into moveable portions and lifted above the OHWM, behind other logs that are up on the bank. For the area up the embankment to the top of the slope, it was determined that Type C Dump Rock Fill per CMS 703.19 B will need to be placed to reduce the weathering and erosion on this slope. A mini excavator will be used to place the stone. It is estimated that 10 yards of material will be needed to sufficiently cover the slope.

3) Wetland area east of the outlet at the Stream B (UT-B) culvert: Approximately 11 cubic yards of soil from a 0.003 acre area needs to be removed from the edge of the wetland. A mini excavator will be used to remove this soil and place in upland locations of the stream bank to help add strength to the bank. This soil will also be seeded with Class 2 Roadside Mixture seed per CMS 659.09-1 to help prevent any migration of soil back towards the wetland. It is anticipated that 10 lbs. of seed mixture will be needed here with 1 bale of straw mulch to help hold the seed until germination. The log was present in the wetland prior to construction, as cited in the Ecological Survey Report; this log will be left in place.

4.) Throughout project area: Any remaining silt fences will be removed.

5.) The unpermitted Stream B impacts extending beyond the culvert outlet: An additional 36 linear feet (LF), 0.003 acres (ac), and approximately 10 cubic yards (CY) of earthen fill was needed for construction. This addition would make the total LF impacts 186, the total ac 0.023 ac, and 74 CY of fill at the UT B culvert association. We believe with this additional impact, we still meet the criteria of a NWP 14.

6.) The unpermitted Stream B impacts approximately 310 feet downstream of UT B culvert outlet: Between the time of the ecological survey and construction, we believe that UT B moved closer to the alignment of the bikepath. Even after moving the centerline of the bikepath 9 feet away from UT B, the slope from the bikepath construction still impacted UT B. The impact at this location was 33 LF, 0.001 ac, and approximately 3.2 CY of earthen fill. We believe with this additional impact, we still meet the criteria of a NWP 14.

The Clermont County Park District has agreed to supply the necessary materials and ODOT's Clermont County forces have agreed to supply the needed equipment and labor to complete these tasks. Domingo Martinez has agreed to provide oversight in the field. Once the materials have been secured, we will schedule the work with our County forces.