

TOWN OF MAYNARD

MAYNARD CONSERVATION COMMISSION

Minutes, February 28, 2012, 6:30 – 9:13

Conservation Commission Office, Town Hall

PRESENT: Commission Members: Fred King (chairman), John Dwyer, Peter Keenan, Jessica Pfeifer, and Doug Moore
Agent: Linda Hansen
Visitors: none

ADMINISTRATIVE BUSINESS:

- Review minutes from 02/07/2012. The minutes will be reviewed at the next meeting.

FINANCIAL:

- L. Hansen's salary for 02/25/12 to 03/9/12 = \$971.20. Mr. King signed the payroll form.

PUBLIC MEETING:

- Stormwater Management
Proposed Five unit apartment complex
Spring and Pine streets
Duffy McNulty/Forsite Engineering

Mr. King reviewed the permit application and had the following comments:

1. Soils: for runoff calculations the engineer uses Paxton soil (dense till with slow permeability and a perched, shallow water table, Hydrologic Soil Group (HSG) C), however the soil testing results show an ablation soil type (which is a loose till, and not a Paxton soil). Ablation Till is more typically in category HSG B. The runoff calculations need to be consistent with the soil type present. Category B soil would have less runoff and would change the infiltration rate. The Ablation Till may be localized and observed just at the testing location. The Commission recommends looking at "inclusion soils" typical with Paxton soils to see if any of those more closely match the test results, that may impact the calculations and /or justify his use of a category C soil in the calculations. Also, additional soil tests are warranted, see below.
2. Additional test pits need to be performed to properly map the soils on the site. At the very minimum, one test pit should be located near the west end of the infiltration unit and some scattered throughout the site. The depth should be deeper than 9 feet and preferably to actual groundwater if feasible.
3. The infiltration unit is designed as a detention basin to control stormwater for storms up to a 100 year storm. The hydrologic model includes infiltration occurring throughout the storm event. This is not in accordance with the "Simple Dynamic Method" the engineer says he is using. This would be considered a full dynamic field method. For that method, field test methods to assess saturated hydraulic conductivity need to be performed. The alternative is to use the simple dynamic method as described in DEP's Stormwater Handbook and use the Rawls Rate associated with the slowest of the hydrologic soil groups found where the infiltration unit is proposed. Note that, for the full dynamic method, the infiltration unit needs to be four feet above the groundwater table or a groundwater mounding analysis needs to be performed.
4. The recharge unit (Cultec) is located between 14 to 16 feet away from the building foundation. DEP requires a minimum 20 foot distance to a building foundation. It is also recommended that a foundation infiltration drain be installed.
5. Erosion and sediment control. The plan does not designate the size of the straw wattle to be used. The plan does not show details for the storm drain inlet protection.
6. O & M. The plan needs to clarify the maintenance of the Stormceptor units (inspected at least four times a year and cleaned as needed).
7. Street sweeping is recommended at least twice per year, both in the late spring and late fall after leaf fall.
8. HydroCad Model: The engineer uses the default 5 to 20 hour time period. This needs to be changed for the model to start at time zero and end when the basin is empty (which may be over 40 hours). This is necessary to account for all rainfall. Also the Dt should be 0.01 hours (rather than 0.05).
9. Compute that the basin drains in 72 hours.
10. The engineer is creating a point discharge for the property directly to the east. An easement is generally required for a point discharge to an abutting property.

11. As stated by Mark Beaudry in his comments: The pre and post development time of concentration (Tc) utilized for subcatchments 1s, 2s and 3s are less than 6 minutes. /The Massachusetts Supplement for TR-55 Hydrology Procedure states that the minimum Tc limit shall be 0.1 hours or 6 minutes. The agent will forward the comments to the engineer and will include Mr. King's contact information if the engineer has questions. The meeting will be continued until March 20th at 8:00.

WETLANDS/STORMWATER ISSUES:

- Review plans for sidewalk construction at four locations. The plans for the sidewalk construction project for Concord Road, Parker Street, and Great Road will need to show erosion and sedimentation control and the limit of work. The Commission recommends using fiber logs (straw wattles or coir logs) for this project. Additional comments include:
 1. Concord Road plan needs to delineate the stream at the start of the riverwalk trail. If wetlands are present, they need to be delineated and the wetlands and 100 foot buffer zone shown on the plan.
 2. The plan for Parker Street needs to delineate the wetlands opposite the Vose Pond detention basin and indicate the area is within NHESP Priority and Estimated Habitat. The plans show the creation of a new discharge that drains into the wetlands. The Commission will need to see calculations for the discharge and any increase in peak flow to the wetlands (project must meet the performance standards and Stormwater Management Regulations). We recommend that VHB should prepare this supporting documentation, although the NOI could still be prepared by DPW.
 3. The plans for Great Road need to show the location of the erosion and sedimentation controls.
 4. No issues with the Waltham Street plan.
- Culvert repair at the ARNWF. The refuge is proposing to replace the culvert at Winterberry Way with a spillway. Beaver activity blocks the water flowing through the culvert and has eroded the area on the upstream side of the culvert. On Otter Way, the water control structure is no longer functioning because the water is draining the from relic cranberry bog into the wetlands. Rather than dig up the area and the road, due to the historic nature of the site, the refuge would like to fill in the problem area to preserve the water levels in the bog and Puffer Pond. The Commission requests the Refuge submit either a formal notification of the work with a project description or an RDA.
- Two houses up for auction by the Town have wetland restrictions. The house on Bellevue Terrace has a stream and the pond directly behind the house. The property behind the house on Mill Street is within 200 feet of the riverfront zone. Both properties would require a permit from the Commission for alterations.
- Prepare SW permit form, discuss regulations and permit fee. The Commission would like a permit form that can be recorded. The agent will ask Woodward and Curran for examples of permit forms or modify an OOC form.

LAND MANAGEMENT:

- Upon the request of the Board of Selectmen, the Commission made a formal vote to transfer Reo Road tot lot to the care and custody of the Board of Selectman. A motion was made, seconded, and approved by all present (4-0) to transfer the care and custody of the parcel located on map 8, lot 114 also known as the Reo Road Tot Lot for the continued management for recreational purposes to the Board of Selectman.
- Dana Road parcel possible purchase. The Commission agreed that the agent start a dialogue with the broker for the property. This property would link other conservation properties.
- Legislation for the release of two-acre parcel of land was forwarded to Representative Hogan's and Senator Eldridge's office. Both offices will forward the legislation to their respective counsel for independent review.

BUSINESS:

- Review Open Space Plan Chapter 4. Mr. Dwyer will update the invasive species plant list in Chapter 4 and distribute to the Commission. The last section regarding air quality still needs updating.
- Four Commission members and the agent plan on attending the annual MACC conference scheduled for March 3.
- Reminder to complete ethics online training. Mr. Moore and Mr. Keenan have completed their training.

Meeting adjourned 9:13