



**Minutes of
Danvers Conservation Commission
Thursday, December 14, 2017
Danvers Town Hall**

The Danvers Conservation Commission held a public meeting on Thursday, December 14, 2017, at Danvers Town Hall, Toomey Room, 1 Sylvan Street.

Members present: Michael Splaine, Chairman
Peter Wilson, Member
Chelsea King, Member

Staff present: Georgia Wilson, Planner
Michelle Borge, Intern

Mr. Splaine opened the Conservation Commission meeting at 7:01 p.m. with a reading of the “Commission Statement.”

1. Request for Certificate of Compliance

- **17 Cherry Hill Drive, DEP File No. 14-1263**

Thad Berry from ASB Design Group represented the applicant. They are wrapping up the work at Cherry Hill. An “as built” was submitted along with a summary letter explaining the accomplishments at the site. Everything has been built according to submission. Mrs. Wilson met with Mr. Berry for a site walk and to place the conservation markers. There was approved space being added to the dumpster, an amendment to the original order. The question was asked if the “as built” varied much from the original plan. Mr. Berry responded not much at all. He told the Committee that the catch basins are in and cleaned; the grass has grown, and mowed twice. All work is complete and approved by staff.

MOTION: Mr. Wilson makes a motion to issue a Certificate of Compliance for 17 Cherry Hill Drive; DEP File No. 14-1263; Ms. King seconded; all in favor

2. Continued Public Hearing [310 CMR 10.05 (4)] - Amendment

- **155 Hobart Street; DEP File No. 14-1270**

Scott Cameron of Morin Cameron Group represented the applicant, Whipple Hill LLC. The applicant, John Thompson of Whipple Hill LLC was also present. The applicant is requesting a modification to the original order on Lot 19, proposing to install the service detention pond underground. It was originally an open basin that would require a rigorous annual maintenance, regular mowing and removal of any leaves & organics. A detention pond is required because when you pave over areas that are now wooded or something other than pavement, the amount of run off is increased. Detention ponds are installed and designed to hold the water on site and slowly release the storm water run-off so not to create any downstream flooding. There were multiple systems set up throughout the site on the original design, this is just one of them. The question was asked if this is the only retention pond in the project. There are 4 of them, the other 3 are outside of the buffer zone. Mr. Wilson asked why in the original plans was this on the surface and the others underground. It is due to the esthetics. Rather than have these in a front yard they are placed underground and require almost no



**Minutes of
Danvers Conservation Commission
Thursday, December 14, 2017
Danvers Town Hall**

maintenance because all sediment is caught in 3 catch basins. There are many different types, aluminum ones, all kinds of different technologies. Mr. Wilson asked Mr. Cameron to explain how it's constructed. Mr. Cameron explained that it is constructed with 2 concrete tanks that vary in depth from 2-4 feet and stagger down. The foot print of each one is 8-14 feet. Tanks are dropped in by a crane and stacked together, and set on a bed of stone. As far as comparison with water quality and mitigation, this modification exceeds that on the prior design. It will also reduce the storm water runoff. The modification was approved by Danvers Engineering and the Planning Board. The question was asked what it looks like on the surface. It is just lawn. Mr. Splaine asked at what point on the surface it begins to do its job. Mr. Cameron explained that it comes in through a pipe that comes down and the treatment occurs from the street with 2 man holes, all underground. There are access covers if it needs to be inspected. The town will maintain. The reason, despite the homeowners insurance, it is hard to get the homeowners to maintain the system. The reason it was on the surface in the original plan is was because Mr. Cameron thought it was being placed further enough back in the lot and wouldn't be an issue. Mr. Thompson, the developer, has received feedback from buyers that there are large amounts of mosquitos living in these ponds, and they also fear they are hazards for small children. Installing them underground is more expensive, but less maintenance and the owner will have a nice green flat backyard. Mr. Splaine asked how much area for the detention pond is being used. It is a smaller foot print, but more volume. This system has same overall volume from the peak water elevation to the top of the pond; takes up less space and a 90% efficiency rate. Ms. King asked if it is made of just concrete or are there other materials. Mr. Cameron responded that there is a tape used to tape each tank together to keep sediment from getting down in between them from the surface. There is also a fabric wrap around them, a geo textile (filter fabric) with very little polyethylene. The fabric will degrade but at that point it is settled. The concrete has a 100 year life cycle. The Danvers Engineering Department gave this a "clean bill of health". Mr. Wilson asked if the water drains out through the floor. Mr. Cameron responded that they didn't design it that way but it will occur. This was designed for detention. Mr. Cameron explained the difference between detention and retention. Detention is holding it on the property and slowly releasing. Retention is holding it and then releasing into the ground. They are all designed to drain within 24 to 36 hours. Wouldn't hold water except for periods of heavy run off. The above ground retention pond could get clogged with leaves and sediment, in-ground will not. In instances of heavy runoff, there is a pipe that allows the water to slowly be released out. Mr. Splaine asked if there is another project who comes before the Commission proposing an above ground retention pond, should they motion to deny. Mr. Cameron stated that it depend on the circumstances.

Michael Berich, resident of Post Gate Road, voiced his concern about the ground water. He had spoken to the Environmental Protection Department and was told that they need to be 2 feet above the seasonal high water; there needs to be 2 borings per location to determine the seasonal high water; and soil testing needs to be done so that the system isn't compromised. Mr. Cameron responded, these are not designed to retain water and release it into the soil, which causes the water table to rise known as ground water mounding. This system is designed to hold and slowly release the run off.

Scott explained DEP's requirements. Some should be spread out over the site and in this case about a quarter of an inch of rainfall run off needs to go into the ground. Even though there are several spread throughout the site it is not capturing all of it which is the reason modifiers are put in place. So for example if 5% is not



**Minutes of
Danvers Conservation Commission
Thursday, December 14, 2017
Danvers Town Hall**

going into the infiltration system, it is added on elsewhere. There are a lot of tense standards reviewed when designing these systems. Design, runoff, water quality, operation maintenance and installation. The MA storm water manual lists the design criteria for these systems.

Mr. Wilson asked if the drainage from this detention pond is just going to go into the wetlands. Mr. Cameron responded that it will be slowly released out of the pipe which is surrounded by stones. It then trickles out and runs down the hill. This does its job and preserves the wetland.

Mrs. Wilson asked Mr. Cameron if he's received any comments back from the DEP for his submission. He told her that he has not. Mrs. Wilson mentioned nor has she.

Mr. Wilson asked if it is a surface pond around Carole Way. Mr. Cameron responded that it is, but can only be viewed from the road because it is located behind the retaining wall.

Mr. Thomson told the Commission that #14 has been sold, four homes are soon to be occupied and the road is ready to be graveled next week.

MOTION: Ms. King makes a motion to Amend the Order of Conditions for 155 Hobart Street, DEP File No. 14-1270 to reflect the changes to the storm water management system from a surface detention pond to a subsurface detention pond as noted on Whipple Hill Subdivision drainage modification in Danvers, MA at 1 Carole Way and 5 Sandpaper Circle. Last revised 11/27/17; Mr. Wilson seconded; all in favor

3. Public Hearing [310 CMR 10.05 (4)] – NOI

- **1 Carole Way (Lot 19); DEP File No. 14-1302**

Scott Cameron represented the applicant, Whipple Hill LLC. The applicant is proposing to place a house on Lot 19 (1 Carole Way). The house will be situated outside of the 35 foot no build zone. The 25 foot border, erosion control line, was already installed with the roadway. The house will have access from Carole Way. The driveway is outside of the buffer zone entering to a garage. Most of the main dwelling is in the buffer zone. There will be grading of the lot and a little bit of fill in the back and front. The run off will be going toward the wetlands. Utilities – water has been installed, sewer connection which is outside of the buffer zone has already been installed. Services have been installed with the roadway. The Danvers engineers reviewed and approved the plans. This property does not have a drywell. The runoff from the roof will go into the drainage and into the storm water system. Storm water design accounts for 25% lawn area could accommodate the install of a pool in the future. Mrs. Wilson asked what is going to separate the house from the wetland. The question was asked if there is a height difference. Mr. Cameron stated that they are only clearing the lot up to the 25 foot no disturb border. Markers will be put in place. And the yard will be graded out with a distinct line. Mr. Wilson asked where the sewer line is going to. Mr. Cameron responded that there is a manhole in the street. All the dwellings at that end will contain ejector pumps which will pump it up the street.



**Minutes of
Danvers Conservation Commission
Thursday, December 14, 2017
Danvers Town Hall**

MOTION: Mr. Wilson makes a motion to issue an Order of Conditions for 1 Carole Way (Lot 19), DEP File No. 14-1302; Ms. King seconded; all in favor

4. Public Hearing [310 CMR 10.05(4)] – NOI

- **4 Carole Way (Lot 14); DEP File No. 14-1303**

Scott Cameron, represented the applicant Ashley and Joseph Bono. Mrs. Bono's father, Bob, for the applicants who were attending a school concert. Most of the work is within the outer portion of the buffer zone. Total 1.5 acres of land. The differences with this lot from the other ones is that this lot is pushed back from the street, so it does have a longer driveway. This lot will also feature a 5 foot retaining wall. Did take provisions for a walkway or patio creeping into the buffer zone. The retaining wall is placed there to adjust the grading. Grading was adjusted to install landscaped swale which will cause the run off to trickle into the street at a slower rate. Mr. Splaine asked if there will be a culvert. The answer is no. This is a larger home, with a bigger driveway. Due to the increase in size, the drywells were doubled (from 2 to 4). Mr. Splaine asked what the dry wells will consist of. The answer is concrete and gravel. Mrs. Wilson asked if there will be a fence on the retaining wall. Mr. Cameron doesn't think it is necessary. Should be fine if trees are planted with some landscaping. Mr. Wilson asked if there is room for snow storage. There is room on both shoulders. Mr. Splaine asked if the upland wetland the only one affected. Mr. Cameron responded that where it veers off is 75 ft. away from the wetland and above the buffer zone. Its close but staying outside the 25 foot zone. Mr. Wilson asked if there is any chance of snow finding its way to the wetland. Mr. Cameron stated that it is designed to get in a little bit but there is an 8 foot shoulder to handle some snow. You might get a little bit of slush if there is a greater amount of snow.

MOTION: Ms. King Makes a motion to issue an Order of Conditions for 4 Carole Way (Lot 14), DEP File No. 14-1303; Mr. Wilson seconded; all in favor

5. Public Hearing [310 CMR 10.05 (4)] – NOI

- **2 Carole Way (Lot 13); DEP File No 14-1304**

Scott Cameron represented the applicant, Whipple Hill LLC. Project is just clipping the corner of the lot with the buffer zone but it is far enough in that just require to file a Notice of Intent. There is almost 50 feet to the outside of the wetlands. This lot was changed on the modifications. It is a smaller footprint than what anticipated. House, driveway, water & sewer entirely outside of the buffer zone. Possibly the gas and for sure the electric will be running through the buffer zone. The dry wells are situated just outside of the 100 foot. A slightly shallower system (only 18 inches tall) is needed. So instead of concrete a plastic product was used. They have designed thousands of these throughout the North Shore. There are 6 vertical posts and on the side pieces is a dry wall. All this is doing is collecting roof runoff and will recharge the storm water back into the ground. Mr. Splaine asked there the tank picks up the water. Mr. Cameron responded that there will be a perimeter drain around the lot with an underground pipe that comes with clean outs with an irrigation cover that you can be maintained. Danvers Engineering division reviewed and approved the project. Mrs. Wilson



**Minutes of
Danvers Conservation Commission
Thursday, December 14, 2017
Danvers Town Hall**

asked how deep is the tank. Mr. Cameron stated that it is 2 feet below grade to the bottom. The gas lines are going to run 2-3 feet deep.

MOTION: Mr. Wilson makes a motion to issue an Order of Conditions for 2 Carole Way (Lot 13), DEP File No. 14-1304; Ms. King seconded; all in favor

6. Minutes – November 9, 2017

MOTION: Ms. King makes a motion to approve the minutes from November 9, 2017, Mr. Wilson seconded. All in favor

ADJOURNMENT

MOTION: Mr. Wilson makes a motion to adjourn the meeting at 7:55 p.m.; Ms. King seconded; all in favor.