

## WINDSOR LOCKS INLAND WETLANDS AND WATERCOURSES

COMMISSION MEETING: Wednesday April 4<sup>th</sup>, 2018, 7:00 PM

**MEMBERS PRESENT:** Bob Crochetiere, Chairman; Maryjane Perrier, Richard Pease, Lacinda Van Gieson, John Farrelly, Jim Guthrie

**RECORDING SECRETARY:** Pauline Taylor; WETLANDS AGENT - Dan Malo

Mr. Crochetiere called the meeting to order at 7:06 PM and asked for a motion to accept the March 14<sup>th</sup> Special Meeting minutes. Mr. Guthrie made the motion to accept, Ms. Perrier seconded. Motion passed.

**OLD BUSINESS:** 229 Ella T. Grasso Turnpike & Spring Street Parcel 025-039-051

Engineer Marek L. Kement presenting for applicants; Town Engineer Dana Steele, Co-Applicant Scott Guilmartin and Joe Calsetta in attendance.

Mr. Kement reiterated the application, presented 3/14/18, for the 221' extension of a 36" corrugated metal pipe, used for storm water conveyance; and 30' fill of ravine section & associated site cleanup. Mr. Kement responded to Town comments, offering revised drainage calculations, contour depictions of downstream ponds, and higher-rated erosion and sediment blanket and additional E&S measures. Town Engineer Dana Steele discussed to those in attendance, his project recommendations which were included in a letter to the Inland Wetlands & Watercourse Commission dated March 30, 2018:

*The pipe invert of 135.0 appears to be higher than the existing channel. The riprap apron should be level if possible (to dissipate energy) and match the bottom of the channel elevation at the outlet which appears to be about 133.0. Revise of justify proposed elevation. This change will affect the slope of the pipe and velocity of discharge. The slope of the pipe is assumed to be 0.5% but the actual invert at the point of extension is unknown. If the invert is higher than 134.2, it would increase the pipe slope and outlet velocity, thus changing the design criteria for the riprap apron. Once the actual invert and pipe slope is known, the engineer should submit a report to the Town Engineer for review, before proceeding with riprap apron installation. The detail for the riprap apron in the revised Drainage Report does not include the minimum side slope height or slope. DOT Drainage Manual recommends 2/3 of the pipe diameter or 1 foot about the tailwater elevation, whichever is greater. Provide Manning's open channel calculation for downstream channel to confirm tailwater depth and required extent of riprap.*

*The riprap apron size is based on the capacity of the upstream 18" pipe restriction. It does not take into consideration the overland flow to the pipe outlet nor does the watershed area on the Pre- and Post-Analysis account for future development of the parcel. While any development would require detention to match pre-development discharge rates, it would be wise to collect and connect all runoff from the site into the 36" pipe, rather than create additional point source discharges to the downstream channel. This would increase the contributing watershed area to the riprap apron. I recommend the riprap apron be sized to accommodate future development and avoid future point source discharges. The proposed pipe also intersects the existing channel at an angle. This will put higher stress on the riprap apron. Because of these unknowns. I recommend increasing the riprap apron stone size to intermediate riprap as a safety factor. The plans call for an erosion control blanket on the proposed 2:1 slopes. A specific product specification should be provided demonstrating it is adequate for the proposed conditions. CT DOT provides a list of approved erosion mat suppliers based on slope and soil type.*

*I recommend an erosion control bond be posted with the town prior to start of construction. The engineer should submit a quantities estimate to my office for determining the bond amount. The Mitigation Narrative mentions removal of downstream invasive plantings as a possible mitigation option. Removal of trash and debris from the area would also be an improvement. I recommend a second haybale checkdam downstream from the pipe installation as an additional precaution to protect the downstream watercourse. Please note that because this project will result in more than ½ acre of disturbance, the applicant is also required to submit their Soil Erosion and Sediment Control Plan to the Planning and Zoning Commission in accordance with Chapter X of the Zoning Regulations.*

**Addressing the recommendations and concerns brought forward, Mr. Steele composed a motion addressing possible conditions of permit approval. A motion to approve the application with the recommended conditions was made by John Farrelly & seconded by Richard Pease.**

Motion to approve application for extension of existing drainage pipe approximately 220 linear feet from the existing manhole near the 36" pipe discharge at 229 Ella Grasso Turnpike and the parcel identified as Assessor's Map 25, Block 39, Lot 51 in Windsor Locks, Connecticut, with conditions:

1. All work and all regulated activities shall be performed in accordance with the referenced plans as amended to address these conditions of approval in a manner acceptable to Town Staff.
2. The property owners are responsible for obtaining any additional permits, registrations or approvals required by local, state or federal regulations.
3. Prior to start of construction, a pre-construction meeting will be held with the Contractor and Wetland Agent to review the conditions of approval.
4. Prior to start of construction, an erosion control bond in an amount and form acceptable to the Town Engineer shall be submitted to the Town Treasurer.
5. Prior to site disturbance, all preliminary erosion controls shall be installed in accordance with the approved plans and in a manner acceptable to the Wetland Agent.
6. An additional row of haybale checkdam shall be installed downstream from the work area as an additional protection against downstream sedimentation.
7. Prior to installation of the pipe extension, the Engineer shall verify the invert elevation of the existing manhole and adjust the pipe slope and corresponding riprap apron design accordingly and in a manner acceptable to the Town Engineer.
8. Modify the riprap apron detail to conform with DOT standards including height of riprap on the side slopes of the channel.
9. Modify the riprap apron design to accommodate the entire developable watershed of parcels.
10. Minimum stone size of the riprap apron shall conform to CT DOT intermediate riprap or larger as determined by the apron design.
11. Erosion control blanket shall be North American Green SC-150 or approved equal.
12. Invasive plants shall be removed from the downstream channel within the subject parcels under supervision of a CT registered Wetland Scientist.
13. Trash and debris shall be removed from the on-site wetlands and upland review areas.
14. The Engineer shall provide written reports to the Wetland Agent at least monthly during construction to confirm compliance with the plans and annually for two years following completion of the work to confirm stabilization of the site.

**Motion passed unanimously. Mr. Calsetta had questions regarding downstream flow for the abutting Roncari property on Elm Street, which were answered by Mr. Kement.**

**NEW BUSINESS:** 92 North Main Street

Cut trees were noticed along North Main Street, with logs felled into wetlands, including fallen fence and other debris. A Notice of Violation will be issued to the homeowner.

**CORRESPONDANCE:** 2018 Aquarion Awards – Friends of the Canal will be submitted for nomination.

**OTHER ITEMS:** A FOI compliant has been sent to the Building Office for all documentation related to the Montgomery Mills Project. Documents are being compiled with an anticipated release date of 5/31/18.

The paper permit applications form needs to be updated to reflect current wetlands regulations. The software used by the Building Department which will allow for online permitting has still not been fully implemented. Wetlands permits will be taken online using the Building Department system. Any paper permit applications will have to be congruent with the online permit application and should be stylistically similar to the paper permit application for the building department. The Commission proposed seeking a new software vendor, but Mr. Malo stated that the Building Department is using its third software in two years, and that each of these have been unable to satisfy building permit-taking needs. The software decision is outside of the control of the Wetlands Commission, since their use will be piggy-backed off of the Building Department. Board of Finance and Selectman have gone with these programs after extensive shopping around and made their purchase based upon CRCOG and CCM recommendation and calls to other towns. Full implementation in Windsor Locks has been unsuccessful.

The Commission asked Mr. Malo to draft a resolution to implement online wetlands permit applications.

**ADJOURNMENT:** 8:45 PM, Ms. Perrier made a motion to adjourn, seconded by Mr. Farrelly all in favor.

**RESPECTFULLY SUBMITTED:** Pauline G. Taylor, Recording Secretary