





August 15, 2007

Mr. Joseph Laydon, Town Planner Town of Wayland Planning Department Town Building 41 Cochituate Rd. Wayland, MA 01778

RE: Master Special Permit Application Town Center Project 400 Boston Post Road

Dear Mr. Laydon:

The following is a response to some of the additional points that were brought up at the hearing and my review of the Mixed-Use Overlay District Rules and Regulations (MUOD).

- 1. Snow Removal: The current plans do not specify how snow storage and removal will be handled. The MUOD does specify that these plans be provided in the Master Special Permit. There is a state DEP Guideline No. BRPG01-01 for snow disposal guidance that should be used for criteria.
- 2. Drainage Structures in the Floodplain: There are some structures and fill shown in the floodplain on the northerly side of the Municipal Building (M-1). There has been no calculation concerning this fill and the mitigation for the fill. This will need to be determined in a definitive basis with the subsequent Conservation filing.
- 3. Septic system location: The current plans show the proposed septic system to be situated approximately 120 feet from the Infiltration Basin 3. I have not received soils data concerning the proposed leaching area and there has been no testing done in the basin area.
- **4. Groundwater Movement**: Without addition testing data I cannot comment on the groundwater movement.

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- 5. Drainage Flows to the South East: The proposed conditions have substantially reduced the peak rate of runoff towards the southeast. The discharge to this area will be from Basin 4, which will prevent the high peak rate of runoff and will be designed to infiltrate towards the adjacent wetlands.
- **6. Irrigation**: The current plans do not include how water will be used for irrigation. The MUOD does specify that documentation should be provided for availability of sufficient water including irrigation.
- 7. Forebay Area Design: On my previous correspondence (8/13/07 Comment 4), I noted that the design criterion for the forebay design should be based upon 1 inch times the total impervious area. This should correctly be a criterion of 0.1 inch per contributing acre.

Sincerely,

Marchionda & Associates, L.P.

Clifford E. Carlson, PE

Project Manager

Copy: Francis X. Dougherty, Twenty Wayland, LLC

Charles A. Doherty, R J O'Connell & Associates., Inc



August 13, 2007

Mr. Joseph Laydon, Town Planner Town of Wayland Planning Department Town Building 41 Cochituate Rd. Wayland, MA 01778

RE: Master Special Permit Application Town Center Project 400 Boston Post Road

Dear Mr. Laydon:

The following is a supplemental review concerning the drainage and some miscellaneous items of previously submitted documents.

## Drainage

- 1. The closed drainage system generally conforms to the intent of local regulations specifically that there will not be an increase in the rate and volume of runoff and groundwater will be recharged conforming to state Stormwater Management Policy criteria.
- 2. The closed drainage system is designed for a 10-year storm. This project includes the creation of a new roadway system that will be used by the general public and it is recommended that the final plans should conform to the local subdivision standard for multi-residence and business land use for 25-year storms.
- 3. Final design calculations should be based upon recognized state standards that the hydraulic grade line should not rise into the street (preferably should not rise within 2 feet of any manhole cover or top of inlets).
- 4. In the final plans, runoff treatment calculations for the forebays should be provided. They should be based upon a criterion of 1 inch times the total impervious area.
- 5. Soils testing should be conducted in the infiltration basins conforming to the state Stormwater Policy to establish high ground water levels and final design



infiltration rates. The existing soils are classified as a loamy sand in a hydrologic soil group A. Normally design infiltration rates for this group should be at a rate of 2.4 inches per hour. The current calculations are based upon a rate of 4 inches per hour.

6. Final plans should consider the revised existing conditions that have resulted from the adjacent Town Commons development. The existing watershed EW-5A has been reduced and this may effect final design of proposed Basin #3.

## **Layout and Material Details**

There is no plan that shows where the various finish surface material surfaces will be used. There are details for concrete curb and vertical granite curbs, concrete and asphalt sidewalks but their location is not specified.

Please do not hesitate to call if there are any questions.

Sincerely,

Marchionda & Associates, L.P.

Clifford E. Carlson, PE

Project Manager

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