



August 28, 2015

Richard Harris, AICP
Town Planner
Town of South Hadley
116 Main Street
South Hadley, MA 01705

RE: Peer Review of Stormwater Management
Redevelopment - 548 New Ludlow Road
Fuss & O'Neill Reference No. 20150214.P10

Dear Mr. Harris,

Fuss & O'Neill has conducted a review of the revised documents submitted by Quality Fleet Services, Inc. related to a redevelopment project located at 548 New Ludlow Road. The redevelopment includes the construction of a 14,580 square foot building, paved parking area, a driveway entrance, a stormwater management system, and other associated site improvements. We have conducted a review of the following materials as they relate to stormwater water management.

Materials Reviewed

1. Document titled, "Stormwater Management Plan – Narrative," revised through August 19, 2015.
2. Letter addressed to Board Members, regarding response to Fuss & O'Neill's comments, dated August 19, 2015, prepared by Sherman & Frydryk, LLC.
3. Report titled, "Project Manual & Drainage Report," revised through August 19, 2015, prepared by Sherman & Frydryk, LLC.
4. Site Plans titled, "Quality Fleet Services, Inc., Site Re-Development, 548 New Ludlow Road, South Hadley, MA" sheet 1 through 5, revised through 8/19/15, prepared by Sherman & Frydryk, LLC.

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Fuss & O'Neill has the following outstanding comments and concerns based on the review of the documents listed above, as well as the applicant's responses and revised materials addressing Fuss & O'Neill's previous comments dated August 5, 2015. For tracking and clarification purposes the original comment numbers are the same. Responses made by Sherman & Frydryk, LLC. have been italicized and new responses by Fuss & O'Neill are in bold lettering.

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Project Manual & Drainage Report

9. The Operation and Maintenance Plan (O&M) does not provide a schedule for the sediment forebay. The forebay should be included within the O&M. Please provide the required operation and maintenance for the forebay.

The O&M Plan has been revised to include a maintenance schedule for the sediment forebay.

Per Volume 2 Chapter 2 of the Mass Stormwater Handbook, after initial months of inspection, the forebay must be inspected monthly and sediment removed a minimum of four times per year. The provided O&M indicates inspection a minimum of twice a year. Please consider revising the O&M to meet the Mass Handbook.

Stormwater Management Bylaw

14. Per Section 16-4, 6, D, of the Stormwater Management Bylaw, final inspection shall include a full TV inspection of the stormwater pipes installed. The applicant has requested a waiver due to the few proposed pipes and the fact that the facility will remain privately owned, will be maintained by the applicant, and will not be the responsibility of the Town of South Hadley. Fuss & O'Neill agrees with the applicant that there does not appear to be any proposed stormwater piping within the project and the project will remain privately owned and the responsibility of the owner. It is the discretion of the Planning Board to allow a waiver.

No action required.

Planning Board to review

21. Per Section 16-6, H, of the Stormwater Management Bylaw, runoff from parking lots shall be treated by an oil and water separator or other controls to remove oil and sediment. A stormwater treatment device that removes oils has not been provided for the paved parking area. A stormwater device that treats oil shall be provided for the paved parking area.

A stone filter strip to help remove oils is included along the edge of the paved parking area. The paved area is of limited size, 2,640 square feet with space for nine employee vehicles, and is not served by a closed drainage system. There is no closed drainage system available on site or within New Ludlow Road for connection of an outlet from an oil and water separator.

Fuss & O'Neill understands there is no closed system to outlet to an oil and water separator. We feel the use of a stone filter strip will suffice as a device to treat runoff.

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To ensure the stone filter strip will function properly it is recommend that operation and maintenance be provided within the O&M Plan.

Stormwater Management Standards

23. Standard 1: No new untreated discharges have been created. Addressed.
24. Standard 2: Above comments may require revisions to the peak discharge calculations
25. Standard 3: Above comments may require revisions to the required groundwater recharge and 72 hour draw down calculations.
26. Standard 4: Above comments may require revisions to the required water quality volume and the TSS removal.
27. Standard 5: The project is considered a land use with as a higher potential pollutant loads. Per the Mass Stormwater Handbook, 44% TSS pretreatment must be provided prior to discharge to the infiltration basin.

44% TSS pretreatment provided

Pretreatment has been provided. Standard has been addressed.

28. Standard 6: The site does not discharge to critical areas. Not applicable.
29. Standard 7: The project is a redevelopment project. The applicant has stated the project meets new development standards; however comments above will require changes to meeting the standards.
30. Standard 8: Comments above require revision to the erosion and sedimentation.
31. Standard 9: Comments above require revision to the O&M.
32. Standard 10: An illicit discharge state has been provided. – Addressed.

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The above comments are based on plans, documentation, and calculations received at the time of review. Any revision to the plans, documentation, and calculations will need further review. Please contact our office should you have any questions.

Sincerely,

Reviewed by:



Aimee Bell
Project Engineer



Eric M. Bernardin, P.E., LEED-AP
Vice President

c: Jim Reidy, DPW