

COPY

Town of Grafton

Department of Public Works

PAUL F. COURNOYER

Director

30 Providence Road

Grafton, MA 01519

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RECEIVED

October 21, 2020

Planning Board
Grafton, MA

Exhibit 8

Memo

To: Planning Board
From: Paul Cournoyer
Date: 21 October 2020
Re: Stillwater Estates

The DPW offers the following comments:

There is currently no street drainage in that area of Wheeler Road, it is a country drainage area where the water sheds to the sides of the roadway. There has been significant erosion downhill (east) from the site that has been repaired by the DPW. I would recommend a catch basin be installed at the uphill side entrance to the subdivision and the storm water directed to proposed storm water system.

Street lights and controls must be LED and compatible with the towns current LED lights and controls. Lights and controls to be installed must be approved by the DPW prior to installation.

Proposed street trees must be submitted to the town planner and approved by the town planner and DPW prior to planting.

Town of Grafton

Wastewater Treatment Facility

PAUL F. COURNOYER

Superintendent of Sewers

9 Depot Street

South Grafton, MA 01560

Phone: (508) 839.8526 Fax: (508) 839.8523

cournoyerp@grafton-ma.gov

Memo

To: Planning Board
From: Paul Cournoyer
Date: 21 October 2020
Re: Stillwater Estates

The sewer department offers the following comments:

The developer must comply with all Grafton Sewer Department standards including construction, testing, and building connections. Please see attachments.

No detail has been provided for the connection to the existing gravity sewer main in Wheeler Road. It should be noted that a “dog house” style manhole will not be acceptable.

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Check List for Sewer Construction Plans

The following are the minimum requirements to address prior to any approval. All proposed sewer extensions must be constructed to facilitate progress toward the approved Comprehensive Wastewater Management Plan (August 2015). All main lines must be constructed to accommodate future anticipated flows from the entire drainage basin.

1. Sewers to be constructed in accordance with Town of Grafton's contract No. 16 and associated detail sheets.
2. All plans must be drawn by and stamped by a registered professional engineer.
3. If required, and at the Sewer Departments discretion, construction and review will be done under the supervision of the Sewer Departments resident engineer. All engineering fees will be paid by the owner. All fees must be up-to-date before any sewer construction begins.
4. The Sewer Department shall charge a fee for the inspection and testing required for sewer line construction. Current fee structure may be obtained from department staff.
5. The Sewer Department shall charge a connection fee of \$5,000.00 for each residential dwelling unit and \$7,500.00(min) for each commercial/industrial building that chooses to enter the public sewer system.
6. If required a Sewer Extension / Connection Permit must be signed by the Board of Sewer Commissioners and sent to The Department of Environmental Protection. No sewer construction may begin until all approvals are final.
7. Before any sewer construction begins the owner must obtain a road opening permit from the town of Grafton or state if required and an Order of Conditions from the Conservation Commission.
8. Signed easements must be provided and recorded at the registry of deeds from private land owners before any sewer work begins. If the proposed extension will become the property of the Town of Grafton Sewer Department the easements must be in the name of the Town of Grafton. All permanent easements shall be a minimum of twenty (20) feet.
9. Service connections must be provided for all potential users, houses and vacant lots.
10. All lines must terminate with a manhole.
11. A manhole must be installed at all intersections crossed.
12. Size lines for total drainage basin. Submit calculations, e.g., for domestic wastewater flows, 3.5 persons/house x 55gallons/person/day x 3.5 peaking factor. For I/I, 1500 gallons/day/inch diameter/mile x 1.5 peaking factor.
13. All gravity lines, force mains, manholes, and pump stations must be tested to and pass all Sewer Department Standards.

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14. Any proposed pump station must meet the Sewer Departments Pump Station Policy.
15. Individual pump stations shall only be proposed as a last resort. Owner must provide evidence that there is no other means to sewer a piece of property. Each pump station will be considered a special feature and dealt with on an individual basis.
16. Any excavation and trench work done in existing public streets shall require full width paving. Contractor shall be responsible for settling and leveling for one year after all construction is complete.
17. All manhole frames and covers shall be 30 inch and marked "SEWER". 20006Z Frames and 2006A1 covers shall be East Jordon Iron Works product numbers 00200628 and 00200611.
18. Manhole frames and covers shall be adjusted using no more than five bricks, red sewer brick only.
19. All sewer manholes must be equipped with steel reinforced copolymer polypropylene ladder rungs. Rungs must be in line and carry from top to bottom of structure.
20. All manhole drops of greater than two (2) feet must be internal drops, unless otherwise approved.
21. "Dog House" style manholes are not acceptable.
22. All buildings must be sewer below the footings per the Sewer Use Ordinance, unless otherwise approved
23. All building connections must be six (6) inch SDR 35 pipe.
24. Sewers will not be considered available for use until all required testing is complete and accepted by the Board of Sewer Commissioners.
25. As-built plans must be submitted electronically and on Mylar by a registered professional engineer when the project is complete.
26. The Board of Sewer Commissioners will not grant or support final acceptance if there are any outstanding issues.
27. At a minimum the following must be shown or addressed on any plan
 - a. Profiles showing slopes of all sewer pipe
 - b. All other buried utilities- water, gas, electric, telephone, ect.
 - c. Proposed or existing basement or sill elevations
 - d. Groundwater and surface water levels and the 100 year flood elevation as shown on the most recent FEMA flood maps
 - e. All pipe sizes
 - f. Note that all filled areas must be ductile iron pipe
 - g. Crown of sewer pipe must be 18inches below any water pipe. Maintain ten (10) feet of horizontal distance between water and sewer lines.
 - h. Show stub locations for all lots

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- i. Detail sheets for all proposed structures and work (trenches, laterals, manholes, ect.).

The Town of Grafton Board of Sewer Commissioners or their representative reserve the right to reject any plan that would be in its opinion injurious to the operation or future operation of the collection system or the wastewater treatment facility.

Any plan approved must have construction started with in one (1) year of approval or request an extension of time from the Board of Sewer Commissioners. If construction is not started in one (1) year plans must be resubmitted for approval.