

June 19, 2019

Mr. Doug Finch, Town Manager
Town of Canandaigua
5440 Routes 5 & 20 West
Canandaigua, New York 14424

**RE: LAKEWOOD MEADOWS SUBDIVISION SECTION 9D
FINAL SUBDIVISION PLANS – SECTION 9D
TAX MAP NO. 112.19-1-500.100
CPN NO. 19-037
MRB PROJECT NO.: 0300.12001.000 PHASE 165**

Dear Mr. Finch,

MRB has completed a review of the submitted Final Subdivision Plans regarding the above referenced project, dated May 17, 2019 prepared by Marathon Engineering. We offer the following comments for the Planning Board's consideration. A brief written response to each comment should be provided by the design engineer.

Overall Plan/ Subdivision Plat/ General Comments

1. The survey certification statement is to be signed on future plan submittals.
2. Easement, right of way, and district maps and descriptions for all proposed easements/R.O.W./districts to the Town of Canandaigua should be provided for review and approval. Please note that all easements are to be reviewed, approved, and filed with the county. This is to occur and be shown on the final plat prior to signatures.

Utility, Grading, and Erosion Control Plan

3. All correspondences from Canandaigua Lake County Sewer District and NYS Department of Health are to be forwarded to the Town of Canandaigua Development Office.
4. All connections to existing watermain, sanitary sewer, and storm sewer should be called out on the plans. The label should include a description of work to be performed, and the method of connection.
5. A gate valve should be provided at the northwestern connection to the existing watermain.

6. Greater separation should be provided between the storm sewer and hydrant/watermain between ST-26 and ES-19, and also between the watermain and ST-24.1.
7. The design engineer should provide greater detailing regarding the proposed 50'x60' flow spreader, especially for the swales contributing from the sides. Calculations/modeling should be provided to demonstrate that the flow rate from the spreader meets or exceeds NYSDEC requirements for the 10 year design storm.
8. Where possible, storm sewer and roof leaders should be directed towards a stormwater management facility. All roadway runoff is to be directed to the St. James Parkway roadside swales for conveyance to the existing stormwater management facility for treatment.
9. Cut and fill calculations are to be provided.
10. It appears that an existing check dam is on the north side of section 9D behind lots 951 and 952. Please clarify if this check dam is to be removed or to remain.
11. The steep slope treatment areas should also include steep slope seed mix. The steep slope area labeling should be revised accordingly. Also, the steep slope treatment hatching should extend 1-2' beyond the steep slope area in accordance with the erosion control blanket detail. Also, all swales are to be lined with erosion control blanket and are to be identified on the plans.
12. The silt fence to the south of lot 958 should be revised to show double row of silt fence following the contours. As shown, all runoff would be collecting at the cusp at the low point of the fencing and potentially result in failure of the fence or channeling along the portion of silt fence perpendicular to the slope.
13. All lot grading is to be designed clearly and effectively convey runoff way from the buildings through the use of shallow, broad swales.
14. Silt fence should be provided at ES-19 along the 1023 contour line.
15. A temporary sediment trap is to be provided behind lots 951 and 952 so as to capture any sediment carried by the proposed swales. The size and supporting calculations should also be provided.
16. Consider moving the concrete washout area further from the existing roadside swale.
17. A SWPPP amendment is to be provided for section 9D. The amendment should include any and all proposed changes to total disturbance, total impervious area, storm sewer calculations/modeling, hydrology modeling, etc. An updated NOI may need to be included.
18. Please note that a Section 9 overall stormwater maintenance agreement as requested as part of Section 9C approvals, is required to be provided.

Landscaping Plan, Details, and Notes

19. Please note that landscaping is considered to be a land disturbance activity. As such, the limits of disturbance line should be extended to include all proposed landscaping.
20. Section 2.2 of the utility notes should be revised to specify that watermain shall be DR-14 PVC in accordance with labeling on the utility plan.
21. The hydrant note in Utility Notes Section 2.2 should be revised to state the following:
All hydrants shall be painted red with bonnets painted as per the AWWA Hydrant Color Code as shown in the Hydrant Unit detail on sheet C9.2. All valve box covers shall be painted blue.
22. The thrust block notes in Utility Notes Section 2.4 should be revised to state "3,000 PSI concrete thrust blocks as shown in the Watermain Thrust Block Schedule on sheet C9.2" in accordance with the Town of Canandaigua requirements.
23. The water service notes in Utility Notes Section 2.2 should be replaced with the following:
 - a) Corporations stop shall be Mueller H-15008 compression type.
 - b) Curb stops shall be Mueller H-15209 Mark II compression type.
 - c) Curb boxes shall be Mueller H-10334, 5 feet long with stainless steel rods and stainless steel keys. Curb boxes shall not be located within driveways.
 - d) Copper services shall be Type "K" ASTM B88
 - e) Plastic services shall be copper tube size (CTS) at 200 psi, with a minimum 1 inch pipe diameter (only used from curb box to unit and a continuous #10 gauge copper tracer wire shall be included from the curb box to the structure). Sand bedding shall be provided as appropriate.
 - f) Polyethylene ASTM D-2737, PE 3408 per AWWA C-901 (Minimum 5'-0" depth and sand encasement required)
 - g) All services tapped into mains shall utilize Double Strap SS Saddle (Mueller) with a Mueller Corporation
 - h) Any services larger than 1" shall meet the minimum specifications of the Water Superintendent.
 - i) Refer to Typical Water Service detail on sheet C9.2.



If you have any questions, comments or concerns regarding any of the above comments please call me at our office.

Sincerely,

A handwritten signature in blue ink, appearing to read "Lance S. Brabant".

Lance S. Brabant, CPESC
Director of Planning & Environmental Services