



70 Essex Street, Unit 2C, Mystic, CT 06355 ■ Phone: 860-536-7390

January 3, 2023

Zoning & Wetlands Officer
Town of Montville
310 Norwich New London Turnpike
Uncasville, CT 06382

Re: Inland Wetland Commission – 2040 Route 32 Gas Station/ Convenience Store Town
Engineer Comments & Health Department Comments

Dear Ms. Badalucca:

In response to the letter dated November 15, 2022 by Robert C. Russo, CSS for the subject property we have developed the following point by point response:

Town Soil Scientist Comments Robert C. Russo CSS, CLA Engineers, Inc. 11/15/2022

1. Provide an existing conditions plan. – **Added (Sheet 2 of 6).**
2. Delineate both sides of the resource areas that are currently delineated by one line of flags. Showing the width of these areas is important in determining impacts. – **Delineation updated.**
3. The soil scientist needs to sign the plans. – **Added to all Sheets.**
4. Show limits of disturbance on the plans. – **Added to Sheets 3, 4 and 5 of 6.**
5. IN places, the proposed E&S is shown as coincident the limits of paving and the wetland edge. As shown, the site cannot be built without wetland disturbance. It is better to show temporary wetland disturbance and restoration if needed. – **We have increased the distance from the edge of pavement to the edge of wetlands and now have adequate room to perform the construction without intrusion into the wetlands.**
6. The plans call for haybales to be located at wetland flags 1-4 and 41 to 43. These flags designate a swale/ intermittent watercourse and this E&S will not function properly. – **Proposed development pushed away from existing channel to allow for functional E&S between proposed development and existing channel. We have added check**

dams within the existing channel. The silt fence/ hay bale line will also delineate the limits of disturbance.

7. Given the proximity of the development to the wetland additional E&S measures should be shown. **We have added check dams within the existing channel.**
8. Provide a soil scientist's report. – **Attached.**
9. Provide an assessment of the functions and values of the wetland and watercourse resource area prepared by a qualified individual.- **Attached.**
10. Provide an impact assessment prepared by qualified individual. - **Attached.**
11. Does the site receive the overflow from the upslope storm water basin on the Home Depot property? **The site does not receive overflow from the upslope storm water basin on the Home Depot property.**
12. Provide sizing calculations for the hydrodynamic separator. **We have utilized the manufacturer's software for sizing the hydrodynamic separator and have noted same on the detail including the size utilized.**
13. Provide a SWPP and spill plan for operation of the gas station. **Provided under separate cover.**
14. Provide a detail for the concrete pavement that will be used in the fueling area. **We have added to the detail sheet.**
15. Document how the calculated WQV is being provided. How many cubic feet of storage are provided in the detention basin? What is the proposed hydrology of the basin?
Provided under separate cover – letter report - supplemental
16. Provide a planting plan for the detention basin. **We have added to grading plan**
17. Provide test pit and permeability data for the detention basin. **We are not assuming any infiltration and have added an underdrain pipe to bottom of basin. Therefore, permeability and test pit data is not necessary for the basin.**
18. Provide a narrative for underground tank installation. Given the depth of the underground tanks, will wetland disturbance be require for tank installation? **Provided under separate cover. We also added a cofferdam around the tanks that will limit the tank excavation inside the cofferdam; thereby protecting the wetlands.**

19. Provide a dewatering plan for underground fuel tank installation. **We have added a detail for dewatering and the proposed cofferdam to plan set.**

20. Provide a four-foot deep sump and hood for the final catch basin before the stormwater basin. **We have added a four foot sump to the grading plan at that location.**

If you have any questions or require anything further, please let us know at your earliest convenience.

Sincerely,

Gregg Fedus (electronic signature)

Gregg Fedus, PE