R.R. Hiltbrand Engineers & Surveyors, L.L.C.

Consulting Civil Engineers 21 Copper Hill Road Granby, Connecticut 06035 (860) 986-3617 Email: tdgrimaldi@gmail.com

575 North Main Street Bristol, Connecticut 06010 (860) 582-4548 Email: <u>rrhilt@aol.com</u>

May 13, 2025

Ms. Vivian Garfein, Chair Inland Wetlands & Watercourses Commission 27 Main Street P.O. Box 0548 Salisbury, CT 06068

Re: Burdick (#2025-IW-051) 152 South Shore Road Salisbury, CT

Dear Chairman & Commissioners:

We have reviewed the following information provided to our firm:

- 1. Engineering drawings entitled, "NEW RESIDENCE, KENNETH & ELIZABETH BURDICK, 152 SOUTH SHORE ROAD, SALISBURY, CONNECTICUT" as submitted by Haley Ward, Inc. Scale: As noted on plans, Dated February 10, 2025, **revised to March 21, 2025**, to include the following sheets:
 - a. Cover Sheet
 - b. Existing Conditions Plan, Site Plan Prepared by Mattias Kiefer, L.S. Sheet C-1
 - c. Demolition Plan, Sheet C-2
 - d. Site Plan, Sheet C-3
 - e. Septic System Details Sheet C-4
 - f. Erosion Control Narrative & Site Details, Sheet C-5
 - g. Planting Plan, Sheet C-6* (*Not Submitted to TAHD)

2. Stormwater Report dated March 21, 2025 as submitted by Haley Ward, Inc.

3. Application Documents to include Application, Narrative, TAHD Approval, Photographs, and Impervious Calculations, and the State Reporting Form & Location Map.

Engineering Comments

- 1. The existing processed gravel parking area on south side of South Shore Road is not included in pre or post development impervious calculations. Please add to calculations and revise total impervious % in zoning table accordingly. If parking area is to be removed, site plan shall be modified to indicate as such.
- 2. Proposed gravel adjacent to driveway and house is not included in post development impervious calculations, nor does it appear to be included in the drainage computations. Please add to calculations and revise total impervious % in zoning table accordingly.
- 3. Proposed house, garage and stoop (not including rear deck over permeable patio) is approximately 1,968 S.F. Proposed Impervious Surface Calculations indicate the area as 1,672.3 S.F. Please clarify discrepancy and revised calculations as necessary. Include wall at south corner of house.
- 4. Indicate size of patio underdrain pipe. Pipe shall be raised above the 3/4" crushed stone layer so that reservoir storage can be utilized. Please provide the drain time of this reservoir?
- 5. Time path for Proposed Drainage Area 1 travels through the rain gardens and is not an accurate depiction of the actual time path. Please revise accordingly.
- 6. Northern roof leader outlet shall be relocated to the vicinity of DH-1, maintaining required separation to septic system, so as to keep point discharge on subject property and not directed towards abutter.
- 7. Footing drain and patio underdrain outlet shall be relocated so as to keep point discharge on subject property and not directed towards abutter.
- 8. Provide <u>local</u> 24 emergency contact for maintenance of erosion and sedimentation control measures.
- 9. Provide detailed, site-specific, construction sequencing for this project.
- 10. Demolition plan shall either be modified to keep existing bituminous driveway until new driveway is to be constructed, or the construction entrance shall be moved to the edge of South Shore Drive.
- 11. Site plan scale in title block is incorrect. Please revise.
- 12. Recommend relocating concrete wash out area away from proposed rain garden.
- 13. If existing parking area adjacent to South Shore Road is to be utilized for staging, inlet protection shall be provided in existing catch basin.
- 14. Provide TF, FL, and pipe directions for existing catch basin.
- 15. Recommend the installation of erosion control blankets on all slopes greater than five (5) percent grade.

Conditions of Approval:

- 1. Revised plans shall be submitted for review/approval.
- 2. Final approved plans shall have live signature and embossed seal of the Engineer and Surveyor of record. These shall be submitted to the Town of Salisbury Land Use Administrator prior to any construction.

3. <u>The Design Engineer shall submit an Erosion & Sedimentation Control Measures Bond Estimate</u> for review by the Consulting Town Engineer.

- 4. A Pre-Construction Meeting is recommended with the Town staff prior to the start of construction to inspect E & S control measures and to discuss construction sequencing/phasing.
- 5. During the construction process, the Owner/Developer/Contractor shall add erosion and sedimentation control measures as deemed necessary by the Town of Salisbury staff and/or the Consulting Town Engineer.
- 6. Daily inspections and required maintenance of all erosion & sedimentation control measures shall be completed by the General and/or the Site Contractor until a permanent vegetated cover is established. Repairs shall be made immediately after inspections.
- 7. Inspection requirements, by the Consulting Town Engineer, shall be determined by the Commission.
- 8. <u>An As-Built Site Improvement and Grading Plan</u>, which shall include topography/locations of all altered areas within the limit of disturbance, shall be submitted to the Land Use Director after all the site work is completed, and prior to requesting a Certificate of Occupancy. Said map shall prepared by a State of Connecticut Registered Land Surveyor.
- 9. A final site inspection shall be completed by the Land Use Director and/or the Consulting Town Engineer prior to the release of the Erosion & Sedimentation Control Bond and/or the issuance of a Certificate of Occupancy.

10. <u>All the Notes/Conditions from the Torrington Area Health District (TAHD) shall be made part of these conditions. Revised plans shall be submitted to TAHD.</u>

Sincerely,

Thomas D. Grimaldi Principal Engineer

Robert R. Hiltbrand Principal