STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

Renée D. Coleman-Mitchell, MPH
Commissioner

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Governor

Susan Bysiewicz
Lt. Governor

Environmental Health Section

January 2, 2020

Michael J. Kirby, RS
Uncas Health District
401 West Thames Street, Suite #106
Norwich, CT 06360

Re: Bozrah Pizza, Salem Turnpike, Bozrah, CT

Dear Mr. Kirby:

This Department has reviewed the revised subsurface sewage disposal system (SSDS) plans for the subject property. The eight sheet plan set (Sheet/Drawing #: G-1, V-1, C-1 & 2, D-1, 2, & 3, E-1) was prepared for Three and an Apple, LLC, and was prepared by Reynolds Engineering Services, LLC. The plans are dated October 1, 2019, revised through December 17, 2019, except Sheet/Drawing # V-1 that has no revision date. The December 17, 2019 cover letter from Mr. Mark Reynolds, PE provided a response to previous Department comments and the response also noted the subject property was recently assigned a street address of 409 Salem Turnpike (CT Route 82), Bozrah, CT.

The plans were submitted to the department for a large SSDS review and approval in accordance with Public Health Code Section 19-13-B103d (c). The plans were found to be satisfactory and in accordance with the provisions of the code. This Department hereby APPROVES the SSDS plans with the following stipulations:

1. The approval to construct the SSDS shall not be issued until the Department's Drinking Water Section approves the on-site well location.
2. A water meter must be provided to allow for water use monitoring.
3. H-20 wheel load rated access ports to grade shall be provided for each leaching system row.
4. The leaching system invert elevations listed in the plan view on Sheet/Drawing # C-2 do not reflect the revised/raised elevations reflected in the septic system cross section on Sheet/Drawing # D-3 and in the septic system elevation chart on Sheet/Drawing # C-2.
5. Final restaurant floor plans including kitchen layout/info must be provided to the Uncas Health District (UHD) for food service code compliance purposes, and to confirm the seat count is consistent with the SSDS basis of design.

6. Although the deep test pits profiles did not identify any maximum groundwater indicators, and the NRCS Web Soil Survey indicates the site is an area with an Agawam fine sandy loam map unit description and the profile for such soils note a depth to the water table at more than 80 inches, it is strongly recommended that a groundwater monitoring well be installed in the leaching system area to allow periodic checking for maximum groundwater during the upcoming wet season. The monitoring well should extend down to at least 2 feet below the bottom of the leaching system.
7. The Permit to Discharge must include sewage tank maintenance schedules. Grease interceptor tanks are typically pumped at least quarterly, and sewage tank pump-out schedules can be adjusted based on observations during tank pump-out.

The Department recommends UHD approve the SSDS plans once the above stipulations have been addressed. If you feel any item has not been satisfactorily addressed, please contact me.

Sincerely,

Robert W. Scully, PE
Supervising Sanitary Engineer
Environmental Engineering Program

C (via email): Mark Reynolds, PE, Reynolds Engineering Services, LLC

P/RWS/409 Salem Turnpike

PLANNING AND ZONING APPLICATION REVIEW
APPLICATION FOR COLLINS & JEWEL FACILITY EXPANSION
3 RACHEL DRIVE
BOZRAH, CT
January 3, 2020

Review Comments prepared by:
Anchor Engineering Services, Inc.

Documents Reviewed (Prepared by J & D Civil Engineers, LLC):
Application Drawings, 7 Sheets:
Dated: December 26, 2019
Stormwater Management Report: Dated November 12, 2019
Also submitted: SECCG review comments (12/10/19), Fire Marshal review comments (12/12/19) and J&D Comment Responses with Stormwater O and M Plan and E & S Bond Estimate (12/26/19), Zoning Application and UNCAS Health District septic approval (11/27/19).

The following are a list of comments associated with the submitted documents for a 4 phase site plan application in the I-80 zone on 3 Rachel Drive. The review was limited to the storm drainage design and the proposed erosion & sediment control plan.

1. Pipe flow analysis should be completed for the on-site drainage system.
2. An additional plan should be included that represents the site upon Phase 1 completion. The construction sequence includes the construction of the building pad for Phases 1-3. This plan should show the Phase 1 limits of proposed bituminous concrete paving and the temporary grading required around the Phase 2 and 3 building pad. What is the proposed surface treatment for the Phase 2 and 3 building pad and how will stormwater in this area be handled?. Temporary grading should be included in the area of the water quality swale if the retaining wall is not to be constructed until Phase 3.
3. The stormwater analyses should include a proposed condition analysis for Phase 1 completion only as represented on the plan described in comment #2. After Phase 1 completion, a portion of the sub catchment S3 will continue to drain to the East drainage area and should be analyzed to ensure that no impacts will occur in the four drainage areas with the completion of the Phase 1 construction only.
4. The proposed water quality swale in the northeast corner of the property will also receive the northern portion of sub catchment S3 (including portion of the phase 2 and 3 building pads). The water quality swale sizing should be revised to include this area.
5. It is recommended that the roof water from the Phase 2 and 3 building not be directed to the sediment forebay to avoid resuspension of collected sediments with the additional flow. Ensure that the forebay contains at least 10% of the WQV and meets other design criteria included in the 2004 Connecticut Stormwater Quality Manual.
6. Include any proposed footing drains on the plans with proposed inverts.
7. Provide sizing for the temporary sediment traps and include their locations and the paths of any temporary swales required to direct the water to each trap. Each trap should be sized for the sub drainage area directed to it.

8. Any areas that are intended to be used for infiltration in the final design, shall not be excavated to the final design elevations during use as temporary sedimentation traps. A minimum of one foot of native soil above the final design grade shall be left in place while used as sedimentation traps. When construction is complete, all accumulated sediment must be cleaned of these areas and the final excavation and turf establishment completed.
9. Show temporary soil stockpile areas and a detail that includes surrounding piles with erosion control fencing.
10. The proposed Stormwater Operations and Maintenance Plan should be added to the plans.
11. It is recommended that only the northern driveway be used for construction access.
12. A note should be added to the retaining wall detail regarding required compliance with the CT Building Code and any requiremenst for design and fall protection.
13. The increase shown to the west area for the proposed conditions is minor but a catch basin could be added to the southern drive access to collect some of the driveway runoff and discharge to a forebay at Basin A to attenuate the proposed flow to the west.
14. Include the proposed pond design information and HydroCAD analyses in the Stormwater Management Report for review.
15. Include the proposed materials makeup of the basin berms on the details.
16. Provide sizing calculations for the proposed riprap outlet pads.
17. It is anticipated that a Registration with DEEP under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities will also be required with this development.
18. Have building plans been included with this submission? Please confirm the allowable building height and front setback as shown in the Zoning Requirement Chart. The Zoning Regulations include a maximum height of 50 feet for this zone.