

September 27, 2021

Mr. Shaun Duffy
Norwalk Health Department
137 East Avenue
Norwalk, CT 06851

Re: 283 Richards Avenue, Norwalk, CT

Dear Mr. Duffy,

We have received comments from your Department received on July 28, 2021 regarding the proposed site plan for subject property.

Below are our responses to the comments made in the review letter:

1. The force main detail on Drawing C-5 has been revised to show the force main higher than the outlet pipe;
2. Drawing C-3 & C-4 have been revised to include a benchmark;
3. Drawings C-2 and C-4 have been revised to show a new location for the proposed well. Note the new location shows no septic tank, pump station or leaching field within the 75 foot setback;
4. Drawing C-4 has been revised to include the specified notes;
5. Drawing C-4 has been revised to call for schedule 40 PVC piping;

We trust that this letter satisfies your concerns at this time. If you have any further questions regarding this project, please do not hesitate to contact me. Thank you.

Sincerely,



Chris DeAngelis, PE
CABEZAS-DeANGELIS, LLC

Cc: E. Suchy, M. Kalsi

Elevation TP#1
141.64±



DEPARTMENT OF HEALTH

Mottles (elev.) @ 138.90
Proposed Bottom System
@ 140.1

CHECKLIST - ENGINEERED DESIGN PLANS
PRIVATE SEWAGE DISPOSAL SYSTEMS

* 15.6' above Mottles *
(Need 18")

Job Site: 283 Richards
Owner: Sikh Gurudwara Religious Center
Design Engineer: Cabezas - DeAngelis

1. Original signature and seal of design engineer on each copy of plans (Blue print of seal or signature is not acceptable).
2. Plan drawn to scale. 1"=20' or 1"=30' for residential lots, 1"=40' or 50' for large projects such as schools, shopping centers, etc. "Key" plan or locus of subject parcel required in upper right hand corner.
3. Title must be placed in lower right hand corner of drawings and must include: owner's name and address (or builder, if owner), location of project with street number (and/or lot #) and street name, scale used, and date.
4. Lot size with dimensions of property lines (plot plan).
5. Lot numbers or assessors map, block, and lot identification.
6. Legend to identify various indicators of stone walls, well, deep test holes, percolation test holes, curtain drains, storm drains, wetlands, watercourses, etc.
7. Existing contours in building and primary and reserve leaching areas.
8. Proposed contours showing fill extensions and cuts.
9. Cross sections through leaching area indicating elevations of system, ledge, curtain drain, groundwater, etc.
10. Sewer line from building to septic tank: effluent distribution piping and distribution boxes: specify pipe sizes and type.
11. Septic tank location and size.
12. Minimum leaching system spread calculations (MLSS), including location of area where slope measurements taken and corresponding calculations.

13. Pump chamber location, chamber cross section showing manhole, float controls, discharge volume.
14. Dimension leaching system with center line distances, lengths, widths, and depths, building to septic tank, curtain drain with inverts, embankments, etc. Do not rely on installer to accurately scale critical dimensions off plan.
15. Invert elevations at foundation wall, inlet and outlet of septic tank. Invert elevations at distribution boxes and/or bottom elevations or inverts at end of trenches.
16. Stable bench mark adjacent to proposed building and sewage disposal system. Installer should not be required to transfer bench marks when considerable Distances (more than 10-15') exist between the bench mark and leaching area. If the bench mark is disturbed prior to construction, the engineer should set Another one for construction purposes.
17. North arrow (may be true, magnetic, or assumed, note on plan).
18. Basis of design or proposed use of building, i.e. number of bedrooms, number of employees, etc. Written description.
19. Soil test data shown on plan to include deep test hole soil descriptions, date of testing, time and measurement readings of perc tests. Soil and perc test locations.
20. Locate wells, septic systems and other potential sources of pollution on adjacent properties. If locations not shown, statement must be provided which certifies that none exist.
21. Proposed well location with protective radius. Recommend increasing minimum 75' distance for private residential well where possible to provide maximum protection.
22. Show building footing drain discharges (90% of homes have foundation/footing drains), storm drains in roads, streams, brooks, drainage swales, swamps,
23. Show existing structures on same lot.
24. Call "Call Before You Dig", 1-800-922-4455, to locate all underground utilities on property and show service lines to building. Public utilities shown on plan.
25. Show detail of leaching system proposed – trenches, galleries, and pits, as well as curtain drain, and cross section of d-box.
26. Indicate driveway location and front and rear of dwelling.

Proposed Well?
w/in 75' to
tanks?

27. ✓ Provide detail specifications of materials to be used such as fill, force main piping, pump model and manufacturer, H-20 wheel loading for pits or galleries under pavement, curtain drain backfill, manhole frames and covers and other non-typical items required for design.
28. ✓ Identify 100% Reserve Leaching Area by layout of a leaching system of acceptable size, with description of proposed design.

29. ___ Revision dates.

30. ___ Notes required on plan for engineer designed systems:

- (A) All fill material must pass the Department of Transportation sieve requirements (less than 10% passing thru # 100 sieve) and approved by the design engineer.
- (B) Fill shall be placed on the perimeter of the trench area and spread with a small crawler, tractor or other approved machinery.
- (C) Contractor shall contact the certifying engineer and the Health Department at least **24 hours** prior to starting construction or the system installation will not be certified.
- (D) Construction shall be inspected by a registered professional engineer acceptable to the Director of Health to ensure compliance with the proposed plan.
- (E) An "as-built" plan certified by a professional engineer, shall be submitted to the Health Department before a "Permit to Discharge" is issued. The "as-built" be prepared in accordance with Health Department policy.

Any questions regarding the above may be answered by calling the Norwalk Health Department at 854-7821.

Reviewed by: S. Duffy

Date: _____

Comments: ① Manhole w/Force Main (Figure 4) Force Main to be higher than pipe leading to system.

② Show Bench Mark on plan

③ Proposed Well within 75ft to septic/pump tanks

④ See Above notes to be on plan

⑤ Sewer Pipe to be SCH 40 only