

BLOCK 8426 LOT 16

WITNESS FEE \_\_\_\_\_

PLAN  
REVIEW FEE \_\_\_\_\_

OWNER Aminov

PHONE # \_\_\_\_\_

DESIGN TYPE OF SEPTIC SYSTEM \_\_\_\_\_

SEPTIC PERMIT# 51660

BY JC DATE 1/24/18

REPAIR \_\_\_\_\_

PE LETTER \_\_\_\_\_

ALTERATION ✓ Septic Tank addition  
only

ABANDON SYSTEM \_\_\_\_\_

NEW \_\_\_\_\_

EXCAVATION INSPECTION DATE  
COMMENT: \_\_\_\_\_

APPROVAL \_\_\_\_\_

BY \_\_\_\_\_

upgrade to accomodate  
basement ejector pump

50% additional ✓

FINAL INSPECTION DATE  
COMMENT: \_\_\_\_\_

APPROVAL \_\_\_\_\_

BY \_\_\_\_\_

septic inspection ✓

no increase  
in bedrooms ✓

EFFLUENT FILTER \_\_\_\_\_

SEPTIC TANK  
WATERTIGHTNESS \_\_\_\_\_

SELECT FILL CERTIFICATION REQUIRED

YES/NO

TEXTURAL ANALYSIS \_\_\_\_\_

DATE \_\_\_\_\_

PERC/TUBE \_\_\_\_\_

COMPACTION \_\_\_\_\_

LOI \_\_\_\_\_

PUMP \_\_\_\_\_

ELECTRICAL \_\_\_\_\_

PLUMBING \_\_\_\_\_

AS BUILT \_\_\_\_\_

CONTRACTOR'S NAME \_\_\_\_\_

PHONE # \_\_\_\_\_

SEPTIC SYSTEM REGISTRATION #

1669

HOMEOWNER'S MANUAL \_\_\_\_\_

LOCAL WELL PERMIT # \_\_\_\_\_

STATE WELL PERMIT# \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_

TYPE OF WELL:

NEW \_\_\_\_\_

REPLACEMENT \_\_\_\_\_

PNC \_\_\_\_\_

FINAL WELL INSPECTION DATE  
COMMENT: \_\_\_\_\_

APPROVAL \_\_\_\_\_

BY \_\_\_\_\_

WATER ANALYSIS PENDING \_\_\_\_\_

SATISFACTORY \_\_\_\_\_

WELL ABANDONMENT RECORD \_\_\_\_\_

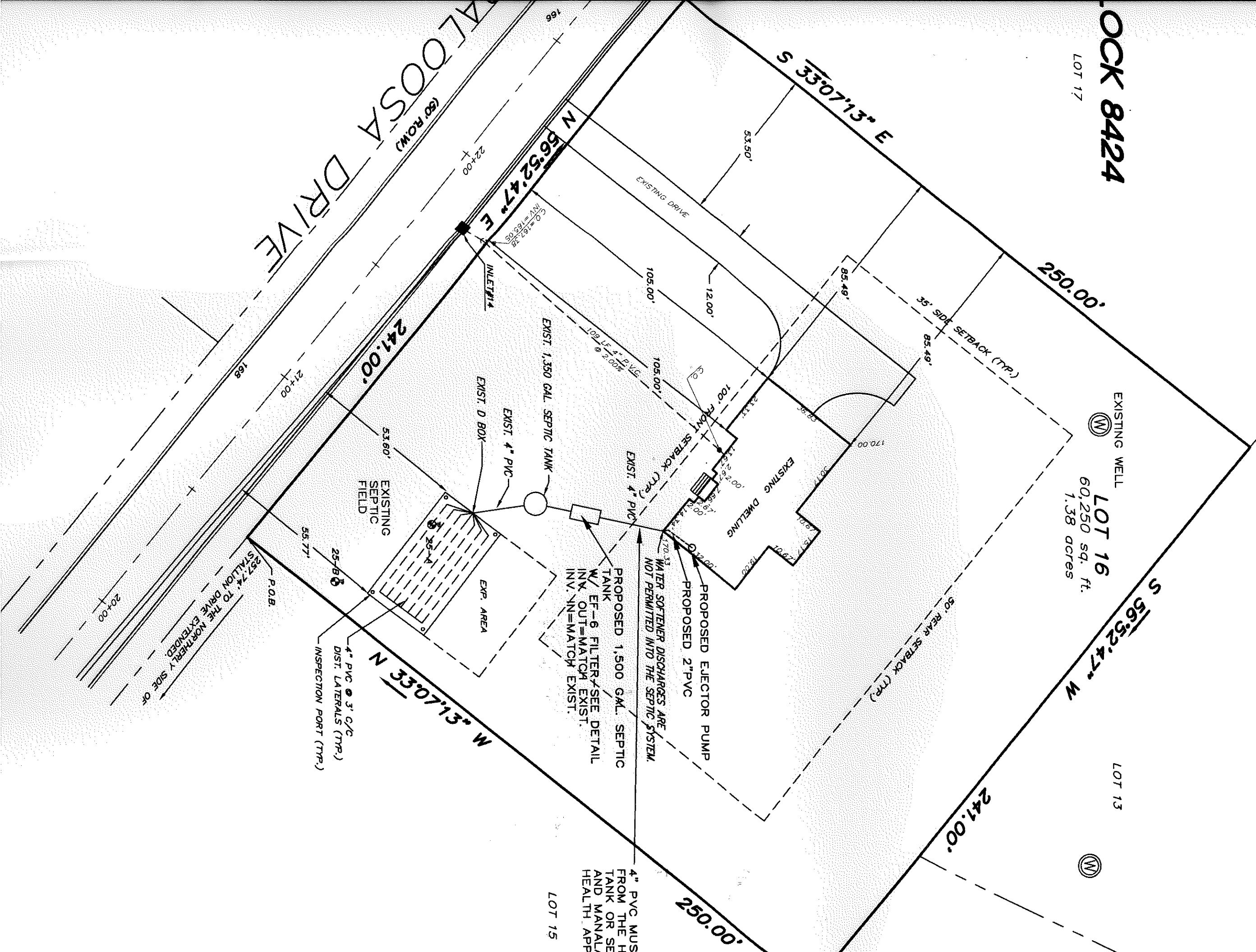
APPLICANT/OWNER:  
SERGEY AND RAISA AMINOV  
10 APPALOOSA DRIVE  
MANALAPAN, NJ 07726  
THE PURPOSE OF THIS APPLICATION IS  
TO ADD A BATHROOM IN THE BASEMENT  
WITH AN EJECTOR PUMP. THE CLIENT  
TO INSTALL AN ADDITIONAL 1,500  
GALLON SEPTIC TANK ON LINE TO ME  
CODE.

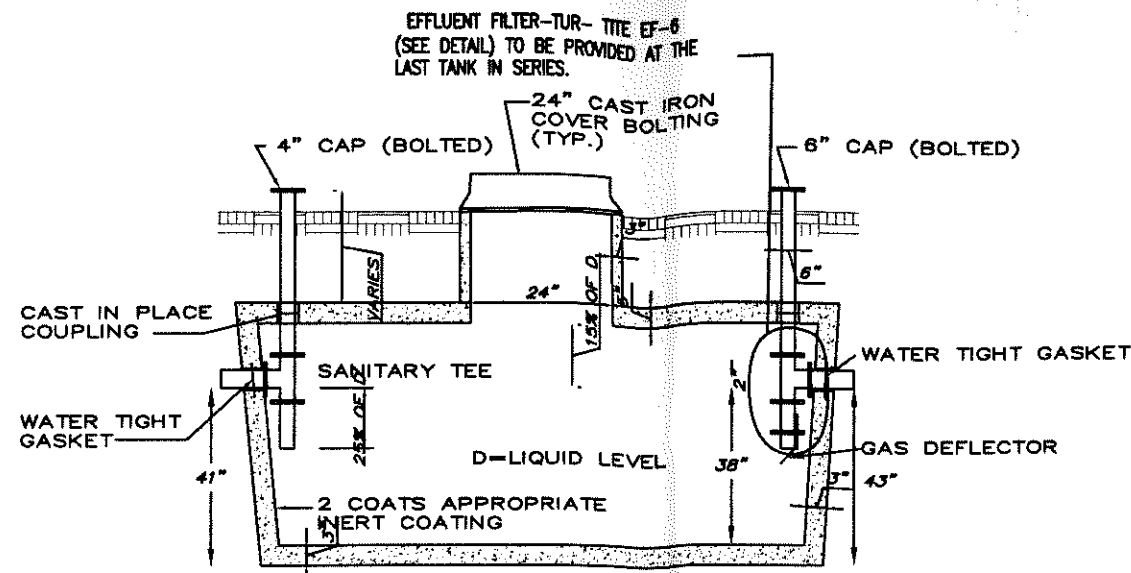
|    |                                                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | Septic Upgrade for:                                                                                                                                                     |
| 9  | Block 8424, Lot 16                                                                                                                                                      |
| 8  | Sergey and Raisa Aminov                                                                                                                                                 |
| 7  | SITUATED IN                                                                                                                                                             |
| 6  | 10 Appaloosa Drive                                                                                                                                                      |
| 5  | Township of Manalapan, Monmouth County, New Jersey                                                                                                                      |
| 4  |                                                                                                                                                                         |
| 3  |                                                                                                                                                                         |
| 2  | CONCEPT ENGINEERING CONSULTANTS, P.A.<br>PROFESSIONAL ENGINEERS - LAND SURVEYORS<br>123 ROUTE 33, SUITE 204, MANALAPAN, NJ 07726<br>PHONE 732-270-9250 FAX 732-270-9240 |
| 1  | REVISED                                                                                                                                                                 |

|                                                                                       |                                                                     |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| PROFESSIONAL ENGINEER<br>N.J. LIC. No. 15511<br><b>JOHN J. PLOSKONKA P.E.</b><br>DATE | PROFESSIONAL LAND SURVEYOR<br>N.J. LIC. No.<br><b>LEO A. KALITA</b> |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|

7500

TANK TAPERS FROM TOP TO BOTTOM, A TANK IS 4,000 p.s.i. CONCRETE, STEEL CONCRETE CONFORMS TO ACI 318-16-





**Septic Tank Detail**  
1,500 Gal.

TANK TAPERS FROM TOP TO BOTTOM, AND IS TRAPEZOIDAL IN CROSS SECTION.  
TANK IS 4,000 p.s.i. CONCRETE, STEEL REINFORCED.  
CONCRETE CONFORMS TO ACI 318-16-4.5.1, AND 318-16-4.5.2

**DEED DESCRIPTION:**  
LOT AND BLOCK NUMBERS BASED ON AN FILED MAP  
ENTITLED "FINAL PLAT OF MAJOR SUBDIVISION, PINE VALLEY  
BLOCK 84, LOT 15.01" SAID MAP WAS PREPARED BY  
CONCEPT ENGINEERING CONSULTANTS ON 3/23/98.  
CASE No.269-20 FILED 9-17-1998

**EXISTING INDIVIDUAL SUBSURFACE DISPOSAL SYSTEM DESIGN:**

**DESCRIPTION**

Type of use  
No. of Bedrooms  
Total Design Flow, G.P.D.

Residential  
4  
650

**SEPTIC TANK:**

Min. Tank size based on Design Flow, Gal.  
Min. Tank size req. by code, Gal.  
Prop. Tank size, Gal.

650  
1000  
1350

**DISPOSAL FIELD:**

Soil permeability Class rating  
Min. field size s.f./gal  
Min. Disposal field size, s.f.  
Proposed field width, ft.  
Proposed field length, ft.  
Prop. field size, s.f.

k4  
1.61  
1056  
24  
44  
1056

**DISTRIBUTION LATERALS:**

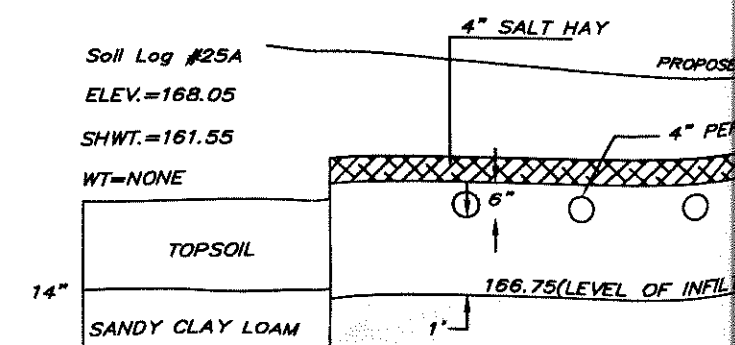
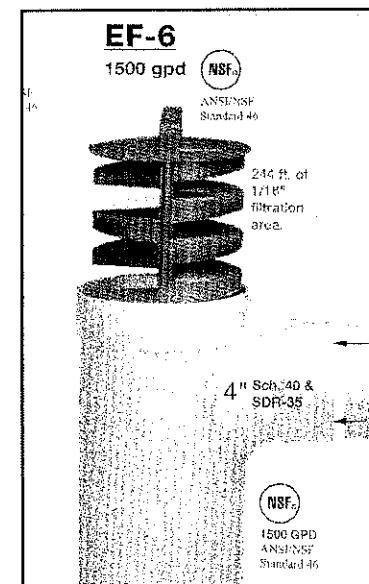
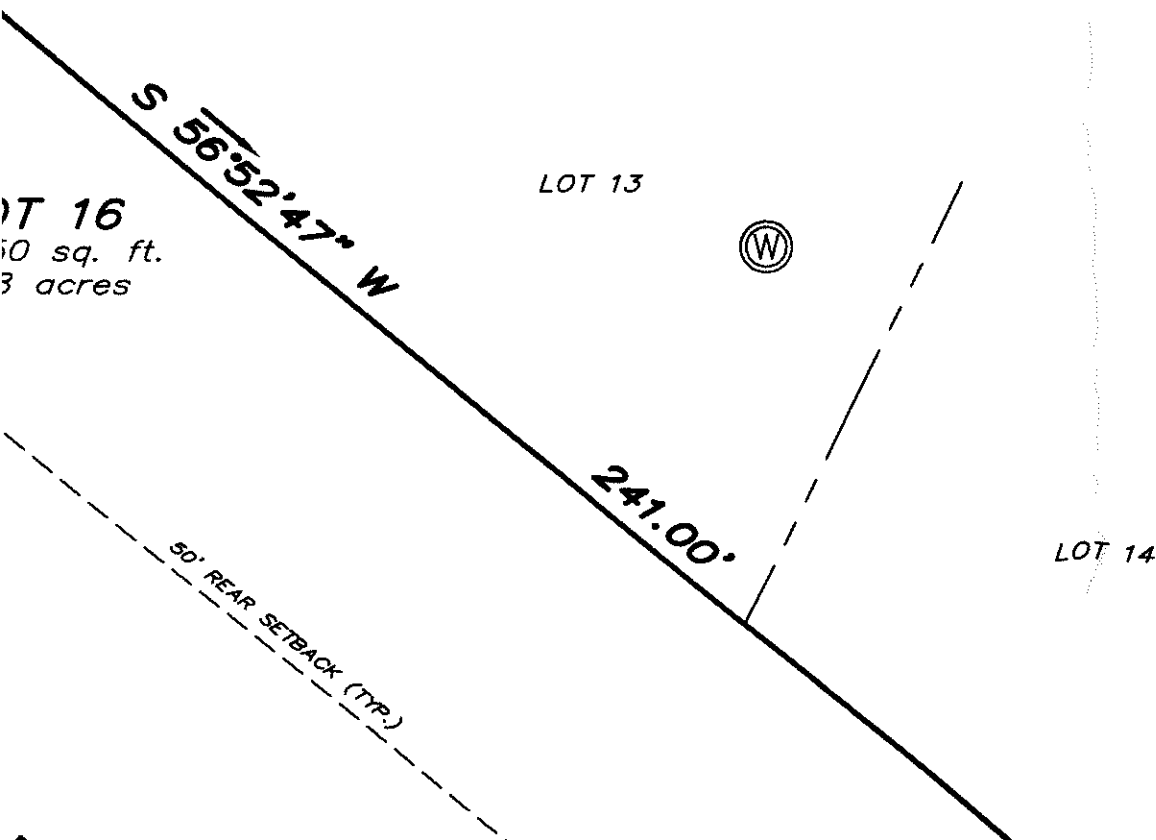
Length of distribution laterals, ft.\*\*  
No. of distribution laterals\*\*\*  
Total length of Perf. pipe, ft.

38  
7  
266

\*\* based on 3 ft. dist. between edge of disposal bed and laterals  
\*\*\* based on 3 ft spacing between distribution laterals

The proposed well shall not be constructed within 100 feet of  
any existing or proposed septic system

- NOTES:**
- The Design
    - Conne
    - specif
    - Septic
    - in Sec
    - Distrib
    - forth
    - Dispos
    - forth
    - Dispos
    - in Sec
  - The opera
    - conform
  - Compactio
    - the follow
    - A. Fill
    - foot
    - B. Corn
    - con
    - Com
    - C. When
    - for
    - equi
    - the
    - mai
    - D. The
  - E. Base
    - cert
    - perf
    - due
  - F. The
    - clas
    - per
    - com
  - G. Grav
  - H. PER
    - for S
  - I. BENO
  - J. WATE
  - K. Propo
    - propo
  - L. Propo
    - propo



DEED DESCRIPTION:  
LOT AND BLOCK NUMBERS BASED ON AN FILED MAP  
ENTITLED "FINAL PLAT OF MAJOR SUBDIVISION, PINE VALLEY  
BLOCK 84, LOT 15.01" SAID MAP WAS PREPARED BY  
CONCEPT ENGINEERING CONSULTANTS ON 3/23/98.  
CASE No.269-20 FILED 9-17-1998

# EXISTING INDIVIDUAL SUBSURFACE DISPOSAL SYSTEM DESIGN:

## DESCRIPTION

|                           |             |
|---------------------------|-------------|
| Type of use               | Residential |
| No. of Bedrooms           | 4           |
| Total Design Flow, G.P.D. | 650         |

## SEPTIC TANK:

|                                           |      |
|-------------------------------------------|------|
| Min. Tank size based on Design Flow, Gal. | 650  |
| Min. Tank size req. by code, Gal.         | 1000 |
| Prop. Tank size, Gal.                     | 1350 |

## DISPOSAL FIELD:

|                                |      |
|--------------------------------|------|
| Soil permeability Class rating | k4   |
| Min. field size s.f./gal       | 1.61 |
| Min. Disposal field size, s.f. | 1056 |
| Proposed field width, ft.      | 24   |
| Proposed field length, ft.     | 44   |
| Prop. field size, s.f.         | 1056 |

## DISTRIBUTION LATERALS:

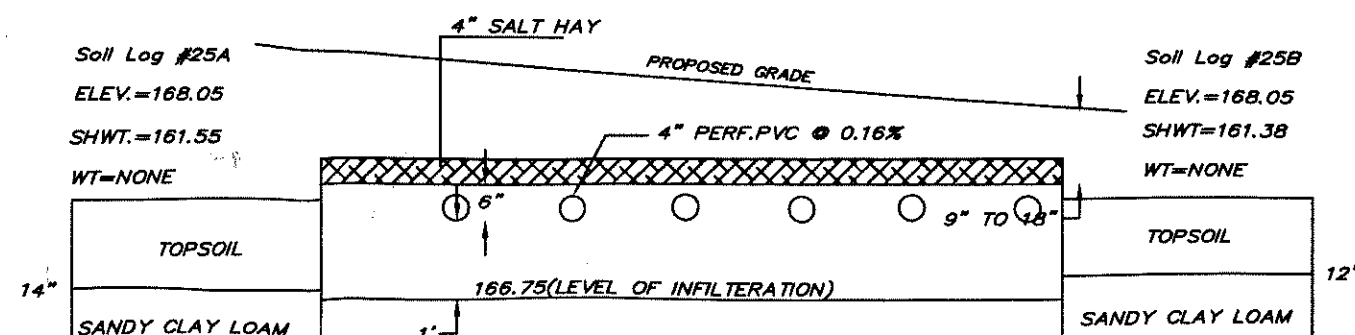
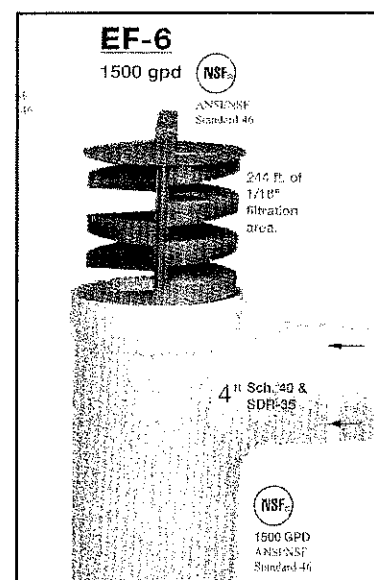
|                                        |     |
|----------------------------------------|-----|
| Length of distribution laterals, ft.** | 38  |
| No. of distribution laterals***        | 7   |
| Total length of Perf. pipe, ft.        | 266 |

\*\* based on 3 ft. dist. between edge of disposal bed and laterals  
\*\*\* based on 3 ft spacing between distribution laterals

The proposed well shall not be constructed within 100 feet of  
any existing or proposed septic system

## NOTES:

- The Design, Construction and Installation of:
  - Connecting pipes and delivery pipes shall conform to the specifications set forth in Section NJAC 7.9A-9.3.
  - Septic tank shall conform to the specifications set forth in Section NJAC 7.9A-8.2.
  - Distribution box shall conform to the specifications set forth in Section NJAC 7.9A-9.4.
  - Disposal laterals shall conform to the specifications set forth in Section NJAC 7.9A-9.5. Max. Slope shall be 2"/100'.
  - Disposal field shall conform to specifications set forth in Section NJAC 7.9A-10.4
- The operation and maintenance of the proposed septic system shall conform to specifications set forth in Section NJAC 7.9A-12.
- Compaction of fill material shall be carried out in accordance with the following requirements:
  - Fill material shall be spread and compacted in layers of one foot or lesser in thickness.
  - Compaction may be accomplished manually or mechanically in a controlled pattern using tracked or rubber-tired vehicles. Compaction may also be accomplished by puddling.
  - When heavy excavating equipment is operated within the excavation for the purpose of placement of compaction of fill material, this equipment shall not be driven directly on the exposed bottom of the excavation. A minimum of one foot of fill material shall be maintained below the vehicle tracts or wheels at all times.
  - The select fill material shall meet the following requirements:
    - Coarse fragment content less than 15% by volume or less than 25% by weight.
    - Textural analysis, from 85 to 95 percent sand, from 5 to 15 percent silt plus clay, min. two percent clay.
    - Permeability from 2 to 20 inches/hour.
  - Based upon the final inspection, a professional engineer shall certify by signature and seal that compaction to fill has been performed adequately to prevent failure of any component of system due to excessive settlement or differential settlement.
  - The Monmouth County Health Department requires that a permeability class rating test be performed on the select fill. In addition, a percolation or tube permeator test must be done on the fill after compaction.
  - Gravel filter material to be N.J.D.O.T. # 3,4 or 24.
  - PERC test shall be performed and certified by professional engineer for Soils of Zone of Treatment
  - BENCHMARK: PROP. INLET #14 INV.OUT = 158.65
  - WATER SOFTENER DISCHARGES ARE NOT PERMITTED INTO SEPTIC SYSTEM.
  - Proposed Well on this lot is located more than 100' from any proposed and or existing disposal beds.
  - Proposed disposal bed on this lot is located more than 50' from any proposed and or existing disposal beds.



## Septic System Application Form

New Construction Application Fee: \$150.00  
Alteration/Repair Application/Permit Fee: \$300.00  
Non-engineered Repair Application Fee: \$75.00

6169  
Permit No. 124116  
Date 12/4/16

### APPLICATION FOR (check one):

Type of Permit Needed (Check and Fill-in applicable categories):

- ☒ a. New Construction  
☒ b. Alteration/ No Expansion or Change in Use  
☐ c. Alteration/Expansion or Change in Use  
☐ d. Alteration/Malfunctioning System  
☐ e. Repair (in-kind replacement)/ Malfunctioning system  
☐ f. Repair (in-kind replacement) System is not malfunctioning  
☐ g. Deviation from Standards

Location Address 10 Appleboro Dr Block 844 Lot 16

Owner Sergey & Raisa Aminov Phone Number \_\_\_\_\_

Present Address Same \_\_\_\_\_

Name of Contractor Same Phone Number \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Type of Building to be Served Single Family home Use: Yearly ☒ Summer ☐

Dwelling Unit: No. of Bedrooms \_\_\_\_\_ Expansion Attic?: Yes ☐ No ☐

Non Residence: Type of Business N/A No. Realty Improvements \_\_\_\_\_

For Commercial Construction - Sq. Feet of Improvement(s) N/A

Type of Waste to be Discharged: Sanitary Sewage ☒ Industrial Waste \_\_\_\_\_ Other \_\_\_\_\_

If d. or e. in the Type of Permit Needed are checked, indicate the type of malfunction and its cause (check all that apply):

- ☐ Contamination of nearby wells or surface water bodies by sanitary sewage or effluent  
☐ Ponding or breakout of sanitary sewage or effluent onto the surface of the ground  
☐ Seepage of sanitary sewage or effluent into portions of building below ground  
☒ Back-up of sanitary sewage into the building served, which is not caused by a physical blockage of the internal plumbing  
☐ Any manner of leakage observed from components that are not designed to emit sanitary sewage or effluent.

☐ Direct discharges to ground water (no zone of treatment)

Describe the cause of the malfunction: \_\_\_\_\_

Please check if any of the following apply:

- ☐ A privy, outhouse, latrine or pit toilet is present, a system must be installed  
☒ A system must be upgraded as part of a real property transfer  
☒ A cesspool has been identified during a real property transfer and a conforming system must be installed  
☐ A malfunctioning cesspool has been identified and a conforming system must be installed

### General Design Data

1. Volume of Sanitary Sewage, gal. 650

Residential: No. of Dwelling Units 1 Total No. of Bedrooms 4

Commercial/Institutional—Indicate in an attachment the type of establishment and show method of flow calculation.

### 2. Alterations or Repairs

a) Reason for Alteration or Repair (Check appropriate categories):

- ☐ Expansion or Change in Use ☐ Upgrade Existing Facilities  
☐ Correct Malfunctioning System ☐ Other—Specify \_\_\_\_\_

b) Describe Nature of Alteration or Repairs: See Cover Letter 1/16/18 for CEC

3. System Components:

- a) Grease Trap Capacity, gals \_\_\_\_\_  
Show Calculation Used: \_\_\_\_\_
- b) Septic Tank Capacity(ies), gals: \_\_\_\_\_ Single Tank or First Compartment \_\_\_\_\_  
\_\_\_\_\_ Second Compartment \_\_\_\_\_ Third Compartment \_\_\_\_\_
- c) Effluent Distribution  
Method: See plan Gravity Flow \_\_\_\_\_ Gravity Dosing \_\_\_\_\_ Pressure Dosing \_\_\_\_\_  
Dosing Device: \_\_\_\_\_ Pump \_\_\_\_\_ Siphon \_\_\_\_\_
- d) Dosing Tank Capacities, gals: Total Capacity \_\_\_\_\_ Dose Volume \_\_\_\_\_ Reserve Capacity \_\_\_\_\_
- e) Laterals: Number \_\_\_\_\_ Total Length \_\_\_\_\_ Pipe Size \_\_\_\_\_ Spacing \_\_\_\_\_
- f) Connecting Pipe: Size \_\_\_\_\_ Length \_\_\_\_\_
- g) Manifold: Size \_\_\_\_\_ Length \_\_\_\_\_
- h) Disposal Field: Type of Installation: Trenches \_\_\_\_\_ Bed \_\_\_\_\_ Alt. Technology \_\_\_\_\_  
Design Permeability (Percolation Rate) \_\_\_\_\_  
Trenches: Width \_\_\_\_\_ Total Length \_\_\_\_\_ Bed: Area \_\_\_\_\_
- i) Seepage Pits: Design Percolation Rate \_\_\_\_\_  
Number of Pits \_\_\_\_\_ Total Percolating Area Provided \_\_\_\_\_

SOIL CHARACTERISTICS

Ground Water Observations:

- Seepage - Indicate Depth \_\_\_\_\_  
Pit/Boring Flooded - Depth after \_\_\_\_\_ Hours \_\_\_\_\_  
Mottling - Indicate Depth \_\_\_\_\_

Soil Limiting Zones (Check Appropriate Categories):

- Fractured Rock Substratum - Depth to Top \_\_\_\_\_  
Massive Rock Substratum - Depth to Top \_\_\_\_\_  
Excessively Coarse Horizon - Depth Top to Bottom \_\_\_\_\_  
Excessively Coarse Substratum - Depth to Top \_\_\_\_\_  
Hydraulically Restrictive Horizon - Depth Top to Bottom \_\_\_\_\_  
Hydraulically Restrictive Substratum - Depth to Top \_\_\_\_\_  
Perched Zone of Saturation - Depth Top to Bottom \_\_\_\_\_  
Regional Zone of Saturation - Depth to Top \_\_\_\_\_

See plan  
1/02/18

Soil Suitability Classification

I hereby certify that the information furnished on Form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator \_\_\_\_\_ Date 1/22/18

Signature of Professional Engineer \_\_\_\_\_ License # 15511  
Address 123 Rt 33 Mendon, MA Telephone 732-742-2736

PLEASE ATTACH THE FOLLOWING

- Plot Plan - location of all soil logs and perc tests
  - existing and proposed grades, bench mark
  - cross section of disposal area
  - elevations of all inverts, outlets, level of infiltration and limiting zones
  - location of wells, water courses, storm drains footing drains with invert elevations
- Detail description of soil profiles including:
  - limiting zones
  - observed ground water, perched water, seasonal high water table and explanation of soil mottles
- Permeability data (Use applicable Chapter 199 Forms)

NOTE: Backwash from a water softener may not discharge into a septic system





**CONCEPT  
ENGINEERING  
CONSULTANTS, P.A.**

123 ROUTE 33  
SUITE #204  
MANALAPAN, NEW JERSEY 07726

Phone: (732)792-2750

Fax: (732)792-2740

John J. Ploskonka, P.E., P.P.

President

Bhaskar R. Halari, P.E.

V.P./Director of Engineering

Shrinath J. Kotdawala, Ph.D., P.E.

Manager of Environmental Engineering

Dana A. Kelly, Esq.

Director of Operations

January 15, 2018

Wm. David Richardson  
Health Officer  
Township of Manalapan  
120 Route 522  
Manalapan, NJ 07726

Re: Sergey & Raisa Aminov  
Block 8424, Lot 16, 10 Appaloosa Drive  
Manalapan, NJ, CEC File No. 32629

Dear Dave:

My clients, Sergey and Raisa Aminov, who live at 10 Appaloosa Drive in Manalapan, Block 8424, Lot 16 wish to install a bathroom in their basement. They are served by septic and well and wish to obtain Board of Health approval for installing a bathroom in their basement, (no additional bedrooms) and will pump the effluent from the new bathroom into a new proposed 1,500 gallon septic tank that is in line with their septic system (see septic alteration plan attached).

Enclosed for your review are three (3) copies of the septic alteration plans prepared by Concept Engineering Consultants dated 1/2/18. (As per DEP Onsite Management Advisory – February 24, 2017 for convenience bathrooms in the basement.) The system must be altered to meet all current requirements for pretreatment units. If a septic tank is to be used, it must meet the 50% oversizing requirements, multiple compartments (or separate tanks in series) and an effluent filter at least 6" in diameter.

The plan calls for a 1,500 gallon tank in front of the existing 1,350 gallon tank. Over 100% increase.

My client has had this system pumped in June 2017 (see attached invoice from Advanced Septic Inspections, LLC). The septic system was inspected by Advanced Septic Inspections, LLC and Onsite Inspection Form consisting of 3 pages along with a cover letter from Advanced Septic Inspections dated June 7, 2017 consisting of 2 pages is attached.

I will hand deliver a signed and sealed package to you tomorrow if everything is okay.



Please feel free to call me on my cell at 732-841-6874 if you have any questions.

Very truly yours,

A handwritten signature in black ink, appearing to be 'John J. Ploskonka', written in a cursive style.

John J. Ploskonka, P.E., P.P.

JJP:obs  
Encls.

cc: Dana Kelly, Bhaskar Halari, Sergey & Raisa Aminov, Jane Casagrande

**Advanced Septic Inspections, LLC**286 Houses Corner Road  
Sparta, NJ 07871**1-800-597-0274****FAX: (800) 834-2803****Invoice**

Date

Invoice #

6/7/2017

S17040225

Bill To:

Sergey Aminov  
10 Appaloosa Drive  
Englishtown, NJ 07726

| P.O. No. | Terms | Project |
|----------|-------|---------|
|          |       |         |

| Quantity | Description                                                                                                 | Rate                    | Amount   |
|----------|-------------------------------------------------------------------------------------------------------------|-------------------------|----------|
| 1        | Performed a septic inspection at the following site. Site location: 10 Appaloosa Drive, Manalapan, NJ 07726 | 495.00                  | 495.00   |
| 1        | Pumped out septic system 1,000 gallons                                                                      | 275.00                  | 275.00   |
| 1        | Pumped an additional 350 gallons                                                                            | 87.50                   | 87.50    |
|          |                                                                                                             | <b>Total</b>            | \$857.50 |
|          |                                                                                                             | <b>Payments/Credits</b> | \$0.00   |
|          |                                                                                                             | <b>Balance Due</b>      | \$857.50 |

A 2% monthly finance charge is added to balances over 30 days. We accept American Express, Mastercard, and Visa. Please reference the invoice number on your check and mail to our Sparta address.

# **ONSITE INSPECTION FORM**

## **Inspection Overview**

- Preliminary system information
- Inspection of treatment tanks
- Absorption system inspection
- Disposal/conveyance system assessment
- Identification of alternative technology  
- requires additional investigation

## **JOB NUMBER**

S17040225

## **Client Name:**

Sergey Aminov

Different From Owner? ☐ Yes ☒ No

## **Client Address:**

\_\_\_\_\_  
\_\_\_\_\_

## **Contact Method:**

Email \_\_\_\_\_  
Home Phone \_\_\_\_\_  
Work Phone \_\_\_\_\_

**Inspector Name:** Matthew Bagley

**Date:** June 6, 2017

**ISSDS Address** (including municipality):

10 Appaloosa Drive

Manalapan, NJ 07726

New Jersey Coordinate:

**Block:** \_\_\_\_\_ **Lot:** \_\_\_\_\_

Was GPS used? ☐ yes ☒ no

## **Preliminary information**

Weather: Light Rain

Last precipitation: Rain Prior Day

Age of system: 2000

Type of dwelling?

☒ Residential Number of Bedrooms: 4

☐ Commercial

How many systems are being inspected? 1

List commercial activities or high impact hobbies:

None Disclosed

Describe prior repair problems or repair history including soil fracturing or chemical additives. Include dates and explain why the remedial measures were applied to the system (if available):

None Disclosed

Date file review requested with administrative authority:

Is there a site plan or septic map available?

Is the dwelling currently occupied?

If so, how many occupants? 3

If no, date last occupied? \_\_\_\_\_

If there is a washing machine, is it connected to a separate gray water disposal system?

Is the system free of additional gray water systems?

Is the dwelling free of garbage disposal systems?

Is the dwelling free of sump pump discharges to the system?

Is the dwelling free of any historical sewage back ups into the structure?

Does all sewage enter the septic system and no type of sewage bypass exists?

Septic Tank Pumping:

Is the septic tank pumped regularly?

Frequency: Every 2 to 3 years

Date of last pumping: 2 - 3 years

Was a file review completed prior to inspection?

YES NO N/A

☒ ☐ ☐

☒ ☐ ☐

☐ ☒ ☐

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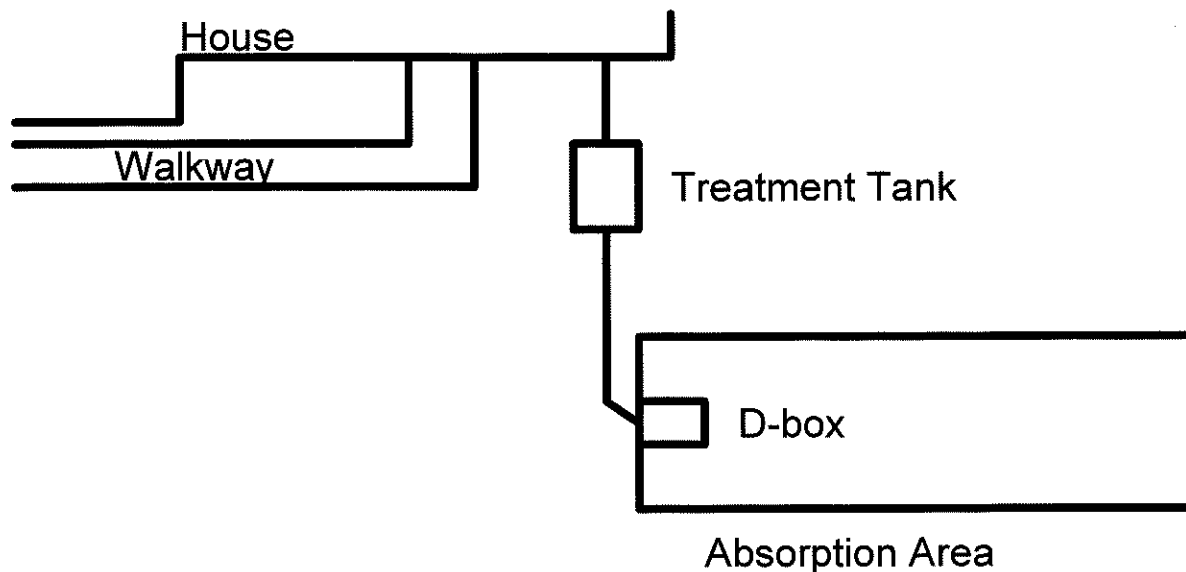
Comments:

| <b>Treatment Tank</b>                                                                                                                              |                                     |                          |                          |                                                                                                                                                                      | Yes                                 | No                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| Type of system being inspected?                                                                                                                    |                                     |                          |                          |                                                                                                                                                                      |                                     |                                     |
| <input checked="" type="checkbox"/> Septic Tank <input type="checkbox"/> Cesspool <input type="checkbox"/> Other<br>Other: _____                   |                                     |                          |                          |                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/> Gray water <input type="checkbox"/> Multi-compartment: # <u>1</u><br>Name the material of the system?                     |                                     |                          |                          |                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Block<br><input type="checkbox"/> Steel <input type="checkbox"/> Other _____ |                                     |                          |                          |                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Approximate Treatment Tank Volume: <u>1350 gallons</u>                                                                                             |                                     |                          |                          |                                                                                                                                                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Evaluate the conditions of the tank below:                                                                                                         |                                     |                          |                          |                                                                                                                                                                      | <input type="checkbox"/>            | <input type="checkbox"/>            |
|                                                                                                                                                    | Satisfactory                        | Unsatisfactory           | N/A                      |                                                                                                                                                                      |                                     |                                     |
| Top and Lids                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Main lid opened for inspection?                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Inlet Baffle                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Liquid level below the tank's inlet invert?                                                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Outlet Baffle                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Liquid level below the tank's outlet invert?                                                                                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Cracks or Leaks                                                                                                                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Treatment tank pumped for this inspection?                                                                                                                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Sewage Flow from Structure                                                                                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are all portions of the tank(s) clear of structures like a deck or a driveway?                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                                                                                                                                                    |                                     |                          |                          | Is the area clear of evidence that sewage has surfaced above the treatment tank?                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                                                                                                                                                    |                                     |                          |                          | Does water flow unimpeded from the treatment tank?                                                                                                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                                                                                                                                                    |                                     |                          |                          | Is an effluent filter part of the system?                                                                                                                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                                                                                                                                                    |                                     |                          |                          | If yes, does it appear properly maintained?                                                                                                                          | <input type="checkbox"/>            | <input type="checkbox"/>            |
|                                                                                                                                                    |                                     |                          |                          | Are there any other types of accessory units present?                                                                                                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                                                                                                                                                    |                                     |                          |                          | Depth to top of tank: <u>8-12 inches</u>                                                                                                                             |                                     |                                     |
|                                                                                                                                                    |                                     |                          |                          | Depth to top of tank access: <u>3-6 inches</u>                                                                                                                       |                                     |                                     |
|                                                                                                                                                    |                                     |                          |                          | Comments:                                                                                                                                                            |                                     |                                     |
|                                                                                                                                                    |                                     |                          |                          | <u>Liquid was found at normal operating level at the time of our inspection. A camera was run through the outlet line of the treatment tank to locate the d-box.</u> |                                     |                                     |

| <b>Absorption Area:</b>                                                                                                                                                                                                                       |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Name the type of absorption system?                                                                                                                                                                                                           |  |  |  |
| <input checked="" type="checkbox"/> disposal bed <input type="checkbox"/> disposal trench<br><input type="checkbox"/> seepage pit <input type="checkbox"/> mounded<br><input type="checkbox"/> cesspool <input type="checkbox"/> other: _____ |  |  |  |
| Was the absorption system located? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no    If no, explain below in comment section.                                                                                            |  |  |  |
| Are inspection ports present? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no                                                                                                                                             |  |  |  |
| If yes, how many? <u>1</u>                                                                                                                                                                                                                    |  |  |  |
| Were the inspection ports checked? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A    *All levels must be included in report                                                                 |  |  |  |
| Was a separate probe dug to confirm observations in the inspection ports? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A                                                                    |  |  |  |
| Is the area of the absorption system free of sewage odors? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no                                                                                                                |  |  |  |
| Does sewage flow from the treatment tank to the absorption system without flowing back? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A                                                      |  |  |  |
| Is the area above or near any of the system components free from visible signs of effluent or sewage? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no                                                                     |  |  |  |
| Are the areas at or near the inlet invert of any absorption area component free of visible signs of sewage or effluent? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no                                                   |  |  |  |
| Are areas above or near system components free of lush vegetation? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no                                                                                                        |  |  |  |
| If exposed, is the distribution box in satisfactory condition? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A                                                                               |  |  |  |
| If not exposed, explain why not: _____                                                                                                                                                                                                        |  |  |  |
| Is the area directly over any part of the system free of any evidence of large objects (cars, pools, etc.)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no                                                               |  |  |  |

| <b>Comments</b>                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The absorption area was located by camera and probe holes were made into the crushed stone surrounding each line. No liquid was noted in the stone prior to our inspection. Liquid was run into the system and monitored through the camera and probe holes. No liquid was noted in the stone at the conclusion of our inspection. |

Sketch of the approximate system location:



| Dosing or Pump Tank                        | Yes                      | No                                  | N/A                                 |
|--------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Does the system contain a pump tank?       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Is the pump operating?                     | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do the alarm(s) on the pump work?          | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is the pump elevated above the tank floor? | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is the lid in satisfactory condition?      | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is the tank in satisfactory condition?     | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is the tank free of accumulated solids?    | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

| Summary:                                      | Satisfactory                        | Satisfactory with Concerns          | Unsatisfactory           | Requires Additional Investigation | N/A                                 |
|-----------------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-----------------------------------|-------------------------------------|
| Condition of the treatment tank(s)            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/>            |
| Condition of the conveyance and pump systems? | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/>            |
| Condition of the absorption area              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/>            |
| Condition of any accessory components         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>          | <input checked="" type="checkbox"/> |

Comments



## ADVANCED SEPTIC INSPECTIONS

286 Houses Corner Rd.  
Sparta, NJ 07871

**1-800-597-0274**

**Fax: 1-800-834-2803**

295 Princeton Hightstown Rd.  
Unit 168  
West Windsor, NJ 08550

June 07, 2017

Sergey Aminov  
10 Appaloosa Drive  
Englishtown, NJ 07726

RE: 10 Appaloosa Drive  
Manalapan, NJ 07726

Dear Sergey Aminov:

As requested, this company performed an inspection of the onlot wastewater system at the above noted address on June 6, 2017. Attached is the report of that inspection which will document our findings. Based on the inspection, the overall system was found in **"Satisfactory with Concerns Condition."**

The system contains three main components: the treatment tank that traps and treats the solids, the conveyance system which moves the liquid from the treatment tank to the absorption area, and the absorption area where the liquid percolates into the ground.

### **The treatment tank was found in "Satisfactory Condition."**

The treatment tank was opened and inspected. Liquid was found at normal operating level at the time of our inspection. As requested, the treatment tank was pumped for this inspection. No cracks or leaks in the tank were noted. The baffle that directs the solids to the base of the tank (inlet baffle) was found in satisfactory condition. The baffle that prohibits floating solids from leaving the tank (outlet baffle) was found in satisfactory condition. A camera was run through the outlet line of the treatment tank to locate the distribution box.

### **The conveyance system was found in "Satisfactory with Concerns Condition."**

Liquid leaves the treatment tank and enters the distribution box, which subsequently directs the effluent to the absorption area. This portion of the system is considered part of the conveyance system. The distribution box was opened and inspected. The distribution box is starting to show signs of deterioration however is still intact and working as designed. We recommend further monitoring in the future. A camera was run through each line in the distribution box to locate and inspect the absorption area.

### **The absorption area was found in "Satisfactory Condition."**

The liquid from the treatment tank enters the absorption area through a distribution box. The liquid is directed through the distribution box into perforated pipes (outlet lines) that run out into the absorption bed. The absorption area was located by camera and probe holes were made into the crushed stone surrounding each line. No liquid was noted in the stone prior to our inspection. Liquid was run into the system and monitored through the camera and probe holes. No liquid was noted in the stone at the conclusion of our inspection.

### **Repair Summary**

**No repairs are needed at this time. The distribution box is starting to show signs of deterioration however is still intact and working as designed. We recommend further monitoring in the future. We recommend pumping the treatment tank every 2-3 years as part of regular maintenance.**



**This Report is Not a Warranty**

The company provides no warranty, expressed or implied, including any warranty of the merchantability or fitness for purpose, or any other warranty whatsoever, that the system meets any code or specifications, or will function properly for any period of time.

If you have any questions, please do not hesitate to contact us. Thank you for allowing ASI to meet your inspections needs.

Sincerely,

**Advanced Septic Inspections  
Certified Septic Inspectors**

**Jane Casagrande**

---

**From:** Jane Casagrande  
**Sent:** Tuesday, January 09, 2018 1:45 PM  
**To:** 'jploskonkacec@optonline.net'  
**Cc:** Dave Richardson  
**Attachments:** Block 8424 Lot 16 ejector pump advisory w note.pdf

John,

Your draft letter addressing the addition of a septic tank to accommodate the 50% over sizing requirement for the ejector pump is satisfactory. However, you still need to address #1, the NJDEP inspection of the existing system and that it is not malfunctioning. ( inspection forms are on line) I have attached a copy of the Advisory on this issue again for your review and attached a note for the issues that are pending.

Jane

**Jane Casagrande**  
**Chief REHS**

1/9/2018

0054 Dr.  
BLOCK 8424 LOT 16 WITNESS FEE ☒ PLAN REVIEW FEE ☒

OWNER Baldachino TELEPHONE \_\_\_\_\_

TYPE OF SEPTIC SYSTEM SRB SEPTIC PERMIT # 3145 BY jc DATE 6/23/99

EXCAVATION INSPECTION DATE 11-5-99 APPROVAL ☒ BY LW  
COMMENT:

FINAL INSPECTION DATE 12-1-99 APPROVAL ☒ \* BY LW  
COMMENT:

\*ports Not locked 2/24/00 PORTS OK DCS.

SELECT FILL COMPACTION CERTIFICATION REQUIRED YES / NO

SIEVE ANALYSIS ☒ DATE \_\_\_\_\_ PERC ☒

SELLECT FILL COMPACTION CERTIFICATION ☒

AS BUILT ☒

SEPTIC SYSTEM REGISTRATION # 606 HOMEOWNER'S MANUAL ☒

WELL PERMIT # 3249 BY LW DATE 11-24-99

TYPE OF WELL: NEW ☒ REPLACEMENT \_\_\_\_\_ PNC \_\_\_\_\_

FINAL WELL INSPECTION DATE 2/23/00 APPROVAL ☒ BY DCS  
COMMENT: 2/22/00 Water in trench DCS

WATER ANALYSIS PENDING \_\_\_\_\_ SATISFACTORY PRIVATE 2/14/00

WELL ABANDONMENT RECORD \_\_\_\_\_

# SITTON SEPTIC CO., INC.

RESIDENTIAL & COMMERCIAL

"BUILDERS"

BILL ALLMANN, *President*

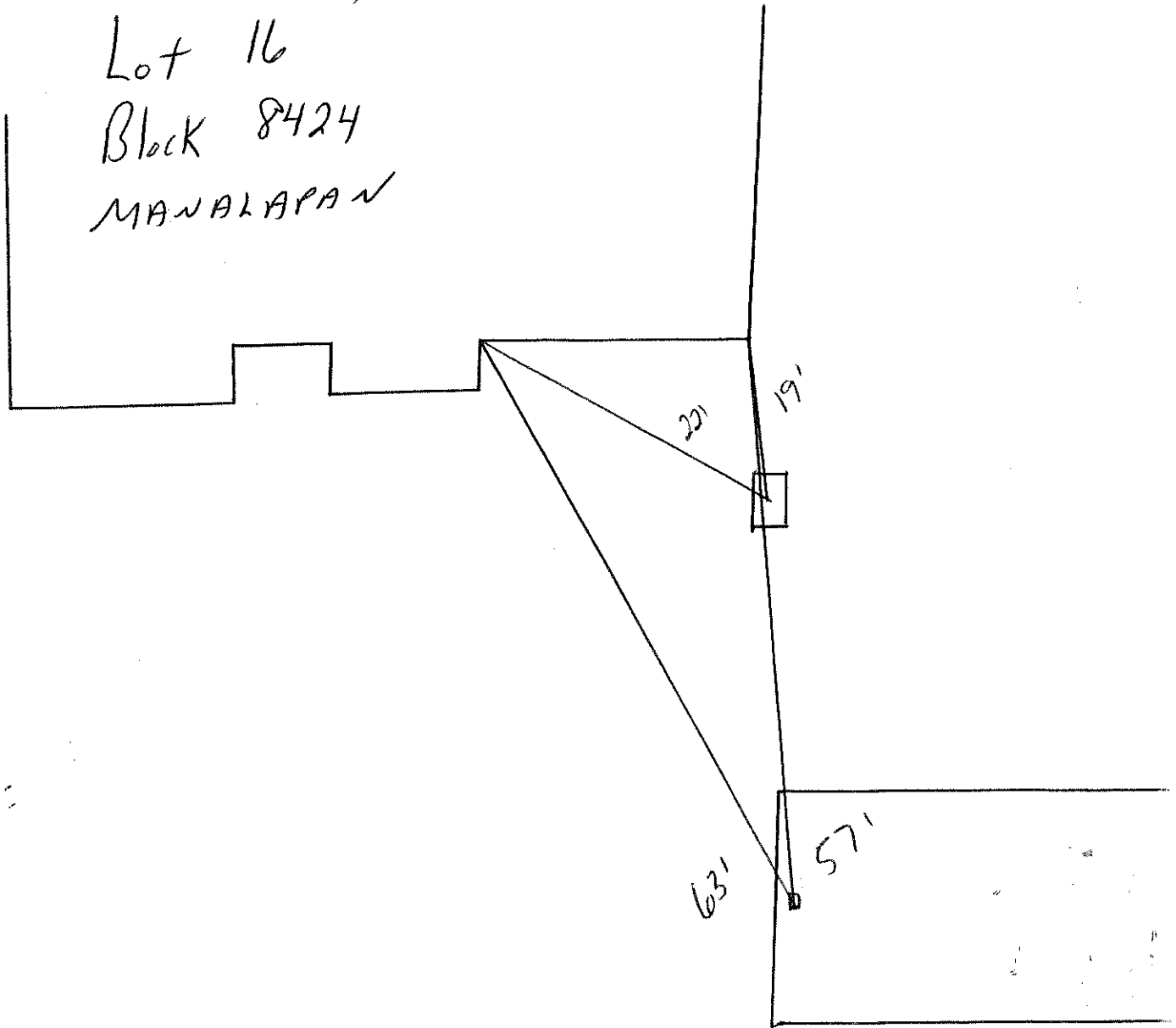
P.O. Box 1060

Jackson, N.J. 08527

Office & Plant 732-928-3553

Fax 732-928-3033

Pine Valley  
Lot 16  
Block 8424  
MANALAPAN



# LORTECH, INC.

ENGINEERING & TECHNICAL SUPPORT SERVICES

November 19, 1999

Ms. Lee Wescott  
Manalapan Township Health Department  
120 Route 522  
Manalapan, NJ 07726

Re: Fill Certification  
Lot 16 Block 8424  
Manalapan Township

Dear Ms. Wescott:

This letter shall certify that the imported fill for the septic system at the above referenced lot was installed at the location shown on the approved septic system design plan.

Samples of the loamy sand fill were retrieved and tube permeameter tests were run. The slowest permeability was 18.3 inches/hour which satisfies the K-4 fill criteria.

Compaction was performed utilizing the roller method and was deemed in accordance with NJAC 7:9A-10.4,(f),3,iii & iv.

If you have any questions regarding this certification please contact this office.

Sincerely,



William C. Longo, P.E.  
NJPE # 35284

cc: Sitton Septic



APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR  
AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

B116 lot 8424

## Form 3c. Soil Permeability Class Rating Data

1. Test Number 1 Replicate (Letter) A Tare # 7000
2. Sample Depth Fill Soil Pit/Boring Number S-1 Date Collected
3. Coarse Fragment Content:  
Total Weight of Sample, W.T., grams 262.86  
Weight of Material Retained on 2 mm sieve, W.C.F., grams 17.88  
Wt. % Coarse Fragment (W.C.F./W.T. X 100): 6.80
4. Oven Dry Weight (24 hrs, 105°C) of 40 Gram Air Dry Sample, grams, Wt. 39.42
5. Hydrometer Calibration, Rc 2 Beaker # 1 Hydrom. # 1
6. Hydrometer Reading - 40 seconds, grams, R1 12.5/12.5  
Temperature of Suspension, °F 68
7. Corrected Hydrometer Reading, grams, R1' 5.5
8. Hydrometer Reading - 2 hours, grams, R2 10.5  
Temperature of Suspension, °F 68
9. Corrected Hydrometer Reading, grams, R2' 3.5
10. % sand = Wt. - R1')/Wt. X 100 =  $(\frac{39.42 - 5.5}{39.42}) \times 100 = 86.05$
11. % clay = R2'/Wt. X 100 =  $\frac{3.5}{39.42} \times 100 = 8.88$
12. Sieve Analysis: Tare # 6-8
- |                                                       |                         |
|-------------------------------------------------------|-------------------------|
| a. Oven Dry Wt. (2 hrs., 105°C) Total Sand Fraction   | Gravel <u>6.8</u> %     |
| (Soil Retained in 0.047 mm Sieve), grams <u>33.05</u> | Sand <u>86.1</u> %      |
| b. Wt. of Fine Plus Very Fine Sand Fraction           | Clay <u>8.9</u> %       |
| (Sand Passing 0.25 mm Sieve), grams <u>9.14</u>       | Silt <u>5.0</u> %       |
| c. % Fine Plus Very Fine Sand (b/a) <u>27.66</u>      | VC-M Sand <u>72.3</u> % |
|                                                       | F+VF Sand <u>27.7</u> % |
13. Soil Morphology (Natural Soil Samples Only):  
Structure of Soil Horizon Tested       
Consistence of Soil Horizon Tested: Dry:      Moist:
14. Soil Permeability Class Rating (Based upon average textural analysis of this replicate and other replicate samples) K-4 Loamy Sand
15. I hereby certify that the information furnished on Form 3c of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Soil Evaluator R. WatkinsDate: 9/21/99Signature of Professional Engineer Scott D. WatkinsDate: 9/21/99 Scott D. Watkins, P.E. License No. 29173



# APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

## Form 3c. Soil Permeability Class Rating Data

1. Test Number 1 Replicate (Letter) B Tare # 7000
2. Sample Depth Fill Soil Pit/Boring Number 5-1 Date Collected
3. Coarse Fragment Content:  
 Total Weight of Sample, W.T., grams 262.86  
 Weight of Material Retained on 2 mm sieve, W.C.F., grams 17.88  
 Wt. % Coarse Fragment (W.C.F./W.T. X 100): 6.80
4. Oven Dry Weight (24 hrs, 105°C) of 40 Gram Air Dry Sample, grams, Wt. 39.42
5. Hydrometer Calibration, Rc 7 Beaker # 2 Hydrom. # 2
6. Hydrometer Reading - 40 seconds, grams, R1 11.5/11.5  
 Temperature of Suspension, °F 68
7. Corrected Hydrometer Reading, grams, R1' 4.5
8. Hydrometer Reading - 2 hours, grams, R2 10  
 Temperature of Suspension, °F 68
9. Corrected Hydrometer Reading, grams, R2' 3
10. % sand =  $\text{Wt.} - \text{R1}' / \text{Wt.} \times 100 = (39.42 - 4.5) / 39.42 \times 100 = 88.58$
11. % clay =  $\text{R2}' / \text{Wt.} \times 100 = 3 / 39.42 \times 100 = 7.61$
12. Sieve Analysis: Tare # G-74

|                                                       |                         |
|-------------------------------------------------------|-------------------------|
| a. Oven Dry Wt. (2 hrs., 105°C) Total Sand Fraction   | Gravel <u>6.8</u> %     |
| (Soil Retained in 0.047 mm Sieve), grams <u>13.42</u> | Sand <u>88.6</u> %      |
| b. Wt. of Fine Plus Very Fine Sand Fraction           | Clay <u>7.6</u> %       |
| (Sand Passing 0.25 mm Sieve), grams <u>10.69</u>      | Silt <u>3.8</u> %       |
| c. % Fine Plus Very Fine Sand (b/a) <u>31.77</u>      | VC-M Sand <u>68.0</u> % |
|                                                       | F+VF Sand <u>32.0</u> % |
13. Soil Morphology (Natural Soil Samples Only):  
 Structure of Soil Horizon Tested       
 Consistence of Soil Horizon Tested: Dry:      Moist:
14. Soil Permeability Class Rating (Based upon average textural analysis of this replicate and other replicate samples) K-4 Loamy Sand
15. I hereby certify that the information furnished on Form 3c of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Soil Evaluator [Signature] Date:     

Signature of Professional Engineer [Signature]

Date: 9/21/99 Scott D. Watkins, P.E. License No. 29173

John J. Ploskonka, P.E., P.P.  
*President*

Bhaskar R. Halari, P.E.  
*V.P./Director of Engineering*

Neal Barton, L.S., P.P.  
*Associate/Director of Surveying*

Terence F. Reilly, L.S., P.P.

Shrinath J. Kotdawala, Ph.D., P.E.  
*Associate/Manager  
of Environmental Engineering*

Dana A. Kelly, Esq.  
*Director of Operations*

 **CONCEPT  
ENGINEERING  
CONSULTANTS, P. A.**

116 NORTH BROADWAY  
P.O. BOX #726  
SOUTH AMBOY, N.J. 08879-0726

*South Amboy Area:*  
(732) 727-6393  
Fax: (732) 727-4159

*Freehold Area:*  
(732) 780-4949

June 8, 1999

Dave Richardson  
Health Department  
Municipal Building  
120 Route 522  
Manalapan, NJ 07726

Reference: Pine Valley Estates  
Block 8423, Lot 4  
Block 8424, Lot 16  
Block 8425, Lot 3  
CEC File # 31348

Dear Dave:

As per your review letter of June 4, 1999, we have revised the septic design for the lots listed below and offer the following comments:

**Block 8423 – Lot 4 – (2 copies of Plot Plan enclosed)**

- ☐ A note has been added to the plan indicating that there are no septic systems located within 100 ft. of the proposed well.

**Block 8424 – Lot 16 – (2 copies of Plot Plan enclosed)**

- ☐ A revised application indicating 1350 gallons has been submitted.
- ☐ The distance from the septic field to stormwater pipe has been indicated on the plan.
- ☐ A note has been added to the plan indicating the prohibition of water softener being discharged into the septic system.

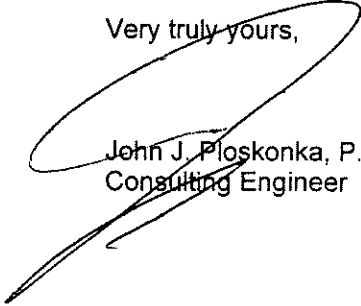
**Block 8425 – Lot 3 – (2 copies of Plot Plan enclosed)**

- ☐ The cross section for the zone of treatment has been appropriately revised.
- ☐ The cross section of the "elevation after regrading" has been revised as requested.
- ☐ A note has been added to the plan indicating that the fill used in the zone of disposal will be certified by a New Jersey certified Professional Engineer.
- ☐ A note has been added to the plan indicating that there are no septic systems located within 100 ft. of the proposed well.

June 8, 1999

I trust that these revisions satisfactorily address your concerns. If you have any questions, please call either me or Shrinath Kotdawala, P.E.

Very truly yours,



John J. Ploskonka, P.E.  
Consulting Engineer

JJP:pb

Enc.

Cc: Baldachino/Wishengrad, LLC

**BOARD OF HEALTH  
TOWNSHIP OF MANALAPAN  
Manalapan, New Jersey 07726**

New Installation Fee: \$100.00  
Alteration Fee: \$ 90.00

Permit No. \_\_\_\_\_  
Date: \_\_\_\_\_

**APPLICATION FOR**

☒ Permit to locate and construct an individual sewage disposal system.  
\_\_\_\_ Permit to alter an individual sewage disposal system.

Location Address \_\_\_\_\_ or Block # 8424 Lot # 16

Owner (Print) Baldachino Wishengrad, LLC

Present Address P.O. Box 59, Perrineville, NJ 08535

Name and Address of Contractor (Print) \_\_\_\_\_

Type of Building to be Served Residential Use: Yearly ☒ Summer \_\_\_\_\_  
Dwelling Unit: No. of Bedrooms 4 Expansion Attic: Yes \_\_\_\_\_ No \_\_\_\_\_  
Other: type of Business \_\_\_\_\_ No. of Realty Improvements 1  
Area sq. ft. \_\_\_\_\_

**PRIMARY TREATMENT**

Volume of Sewage (Gallons) 650

Septic Tank: Shape \_\_\_\_\_ Rectangular # ☒ Cylindrical # \_\_\_\_\_ Material Concrete  
Width \_\_\_\_\_ Length \_\_\_\_\_ Liquid Depth \_\_\_\_\_ Total Capacity 1350  
Garbage Disposal \_\_\_\_\_ Other specify \_\_\_\_\_

**SECONDARY TREATMENT**

Disposal Trenches: Width \_\_\_\_\_ Depth \_\_\_\_\_ Area Sq. Ft. \_\_\_\_\_  
Distance Between Lines \_\_\_\_\_ Type and Size of Pipe \_\_\_\_\_ Area Sq. Ft. 1056  
Disposal Bed: Width 24 Depth 44 Type and Size of Pipe 4" PVC  
Feet of Pipe 266 Distance Between Lines 3' c/c  
Seepage Pits: Number \_\_\_\_\_ Shape \_\_\_\_\_ Rectangular \_\_\_\_\_ Cylindrical \_\_\_\_\_  
Material \_\_\_\_\_ Width \_\_\_\_\_ Length \_\_\_\_\_  
Total \_\_\_\_\_ Distance between pits \_\_\_\_\_  
Diameter if cylindrical \_\_\_\_\_ Area Sq. Ft. (sides only) \_\_\_\_\_

Soil Characteristics: (Attach Copy)  
Monmouth County Soils Maps

Series Name: CnB-Collington Sandy Loam

Ground Water: > 6'

Soil Investigator: Shrinath J Kottawala, P.E. - CEC  
Certifying Engineer: John J. Ploskonka, P.E. - N.J. License # 15511  
Address: Concept Engineering Consultants, P.O. Box 726, South Amboy, NJ 08879 (732) 727-6393

**PLEASE ATTACH THE FOLLOWING:**

1. Plot Plan: - location of all soil logs and per tests  
- existing and proposed grades, bench mark  
- cross section of disposal area  
- elevations of all inverts, outlets, level of infiltration & limiting zones  
- location of wells, water courses, storm drains footing drains with invert elevations

2. Detail description of soil profiles including

- limiting zones
- observed ground water, perched water, seasonal high water table & explanation of soil mottles

3. Permeability data (Use applicable Chapter 199 Forms)

Note: Backwash from a water softener may not discharge into a septic system



(Lot 20)

CONCEPT ENGINEERING CONSULTANTS, P.A.  
116 North Broadway, P.O. Box 726  
South Amboy, NJ 08879

(908) 727-6393  
Fax: (908) 727-4159

Freehold Area (908) 780-4949

COUNTY / MUNICIPALITY Monmouth / Manalapan

APPLICATION FOR PERMIT TO CONSTRUCT / ALTER / REPAIR AN INDIVIDUAL SUBSURFACE  
SEWAGE DISPOSAL SYSTEM

FORM 2b - SOIL LOG AND INTERPRETATION LOT 15 BLOCK 84

1. CLIENT: Baldachino / Wishengrad CEC # 31348  
PERFORMED BY: Shrinath Kotdawala  
WITNESSED BY: Jane Casagrande  
DATE PERFORMED: 9/11/96

2. SOIL LOG #: 25A Method (Check One): ☒ Profile Pit ☐ Boring

| Depth      | Horizon                  | Color                                 | Description                                                                                                                                                             |
|------------|--------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                          |                                       | Texture / Structure / Consistency                                                                                                                                       |
| 0" - 14"   |                          |                                       | Topsoil                                                                                                                                                                 |
| 14" - 26"  | 10YR (5/6)               | Yellowish Brown                       | Sandy clay loam, subangular, blocky, friable                                                                                                                            |
| 26" - 36"  | 2.5YR (6/4)              | Weak Red                              | Sandy clay loam, subangular blocky, friable, CMD mottles of 7.5YR (5/6)                                                                                                 |
| 36" - 122" | 5YR (3/4),<br>10YR (5/6) | Dark Reddish Brown<br>Yellowish Brown | Sandy loam, subangular, blocky, friable, 5% ironstone, mottles FMD of 7.5yr (5/6), inconsistent, < 2% at 78" MMP mottles (coarser with depth) 7.5yr (5/6) & 2.5yr (5/4) |

Mottles: 78"

COMMENTS & NOTES:

3. GROUND WATER OBSERVATIONS:  
☐ Seepage - (Indicate Depth): \_\_\_\_\_ ☐ Pit/Boring Flooded - Depth after \_\_\_\_\_ Hours \_\_\_\_\_

4. SOIL LIMITING ZONES (Check appropriate categories):  
☐ Fractured Rock Substratum - Depth to Top \_\_\_\_\_  
☐ Massive Rock Substratum - Depth to Top \_\_\_\_\_  
☐ Excessively Coarse Horizon - Depth Top to Bottom \_\_\_\_\_  
☐ Excessively Coarse Substratum - Depth to Top \_\_\_\_\_  
☐ Hydraulically Restrictive Horizon - Depth Top to Bottom \_\_\_\_\_  
☐ Hydraulically Restrictive Substratum - Depth to Top \_\_\_\_\_  
☐ Perched Zone of Saturation - Depth Top to Bottom \_\_\_\_\_  
☒ Regional Zone of Saturation - Depth to Top 78"

5. Soil Suitability Classification: I

6. I hereby certify that the information furnished on Form 2b of this application is true and accurate.  
I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.  
58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator \_\_\_\_\_

Date 8/15/97

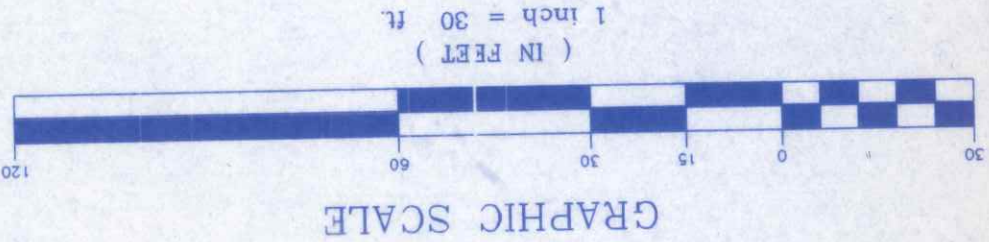
Signature of Professional Engineer \_\_\_\_\_

License # 15511



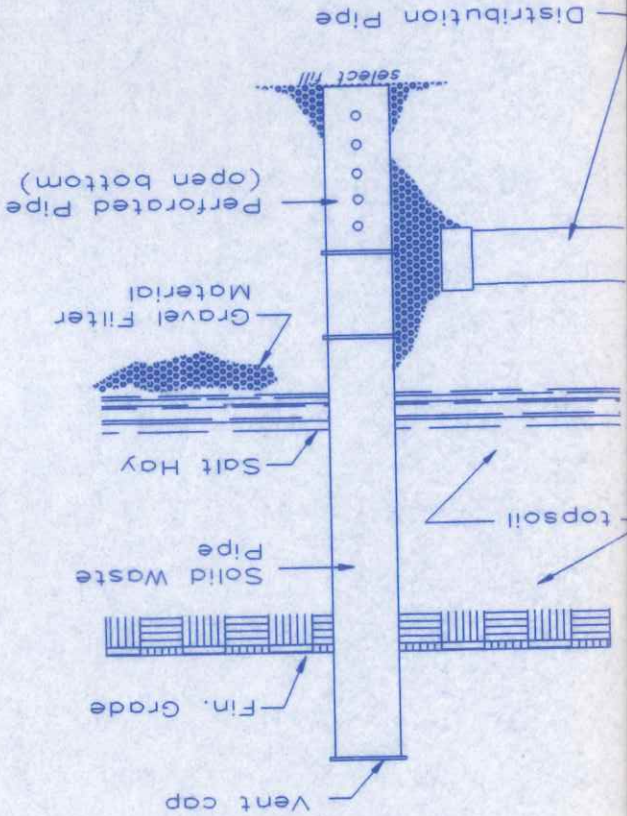
|        |                                                                                                                            |      |
|--------|----------------------------------------------------------------------------------------------------------------------------|------|
| 122"   | SANDY LOAM                                                                                                                 | 120" |
| 15'88" | REMOVE AND REPLACE WITH "K&" SOIL<br>ZONE OF DISPOSAL<br>(N.J.P.E. MUST CERTIFY THE SOIL CLASSIFICATION<br>AND COMPACTION) |      |

SOIL REPLACEMENT  
BOTTOM LINE FIELD INSTALLATION (n.t.s.)



*Approved*

SPECTION PORT DETAIL (n.t.s.)



|                                                                                                                        |              |                                                                                                                                                                                           |                   |
|------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| DATE 5/12/99<br>SCALE 1"=30'<br>DRAWN BY: GC<br>DN: 5/12/99<br>CHECKED BY:                                             |              | CAD FILE 8424-16DWG<br>FIELD BK. N/A<br>PAGE N/A<br>SHEET 1 OF 1<br>JOB NO. 31348                                                                                                         |                   |
| Plot Plan for:<br>PINE VALLEY<br>Block 8424, Lot 16<br>SITUATED IN: Township of Manalapan, Monmouth County, New Jersey |              | CONCEPT ENGINEERING CONSULTANTS, P.A.<br>PROFESSIONAL ENGINEERS - LAND SURVEYORS<br>116 N.J. ROADWAY, SQ. AMBOY, N.J. 08879<br>PHONE: 908-727-6393 OR 908-780-4949<br>N.J. LIC. NO. 15511 |                   |
| CONCEPT ENGINEERING CONSULTANTS, P.A.<br>PROFESSIONAL LAND SURVEYOR<br>N.J. LIC. NO. 34840                             |              | NEAL BARTON P.L.S.<br>DATE                                                                                                                                                                |                   |
| 10                                                                                                                     | DATE 5/12/99 | 1                                                                                                                                                                                         | REVISED           |
| 9                                                                                                                      |              | 2                                                                                                                                                                                         | DATE/BY 10/27/98  |
| 8                                                                                                                      |              | 3                                                                                                                                                                                         | CONC. 120         |
| 7                                                                                                                      |              | 4                                                                                                                                                                                         | HSE. SIZE 11/5/98 |
| 6                                                                                                                      |              | 5                                                                                                                                                                                         | DIMENSIONS 6/7/98 |
| 5                                                                                                                      |              | 6                                                                                                                                                                                         |                   |
| 4                                                                                                                      |              | 7                                                                                                                                                                                         |                   |
| 3                                                                                                                      |              | 8                                                                                                                                                                                         |                   |
| 2                                                                                                                      |              | 9                                                                                                                                                                                         |                   |
| 1                                                                                                                      |              | 10                                                                                                                                                                                        |                   |



DISPOSAL SYSTEM DESIGN:

Residential  
4  
650

Design Flow, Gal.  
1000  
1350

k4  
1.61  
1056  
24  
44  
1056

15, ft.\*\*  
\*  
t.

between edge of disposal bed and laterals  
between distribution laterals

be constructed within 100 feet of  
ptic system

38  
7  
266

G. Gravel filter material to be N.J.D.O.T. # 3, 4 or 24.

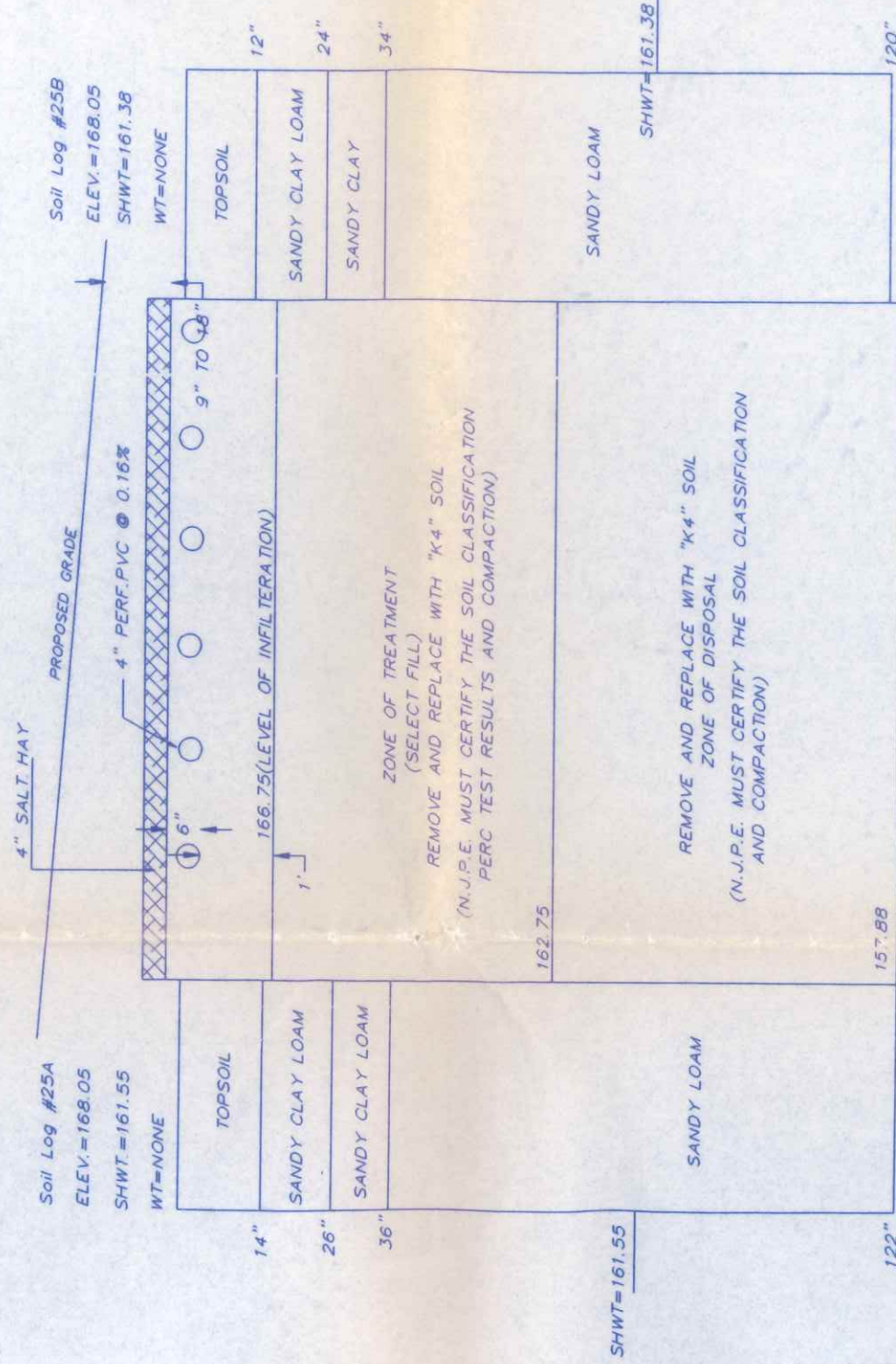
H. PERC test shall be performed and certified by professional engineer  
for Soils of Zone of Treatment

I. BENCHMARK: PROP. INLET #14 INV.OUT = 158.65

J. WATER SOFTENER DISCHARGES ARE NOT PERMITTED INTO SEPTIC SYSTEM.

K. Proposed Well on this lot is located more than 100' from any  
proposed and or existing disposal beds.

L. Proposed disposal bed on this lot is located more than 50' from any  
proposed and or existing disposal beds.



SOIL REPLACEMENT  
BOTTOM LINE FIELD INSTALLATION

(n.t.s.)

NOTES:

- The Design, Construction and Installation of:
  - Connecting pipes and delivery pipes shall conform to the specifications set forth in Section NJAC 7.9A-9.3.
  - Septic tank shall conform to the specifications set forth in Section NJAC 7.9A-8.2.
  - Distribution box shall conform to the specifications set forth in Section NJAC 7.9A-9.4.
  - Disposal laterals shall conform to the specifications set forth in Section NJAC 7.9A-9.5. Max. Slope shall be 2"/100'.
  - Disposal field shall conform to specifications set forth in Section NJAC 7.9A-10.4
- The operation and maintenance of the proposed septic system shall conform to specifications set forth in Section NJAC 7.9A-12.
- Compaction of fill material shall be carried out in accordance with the following requirements:
  - Fill material shall be spread and compacted in layers of one foot or lesser in thickness.
  - Compaction may be accomplished manually or mechanically in a controlled pattern using tracked or rubber-tired vehicles.
  - When heavy excavating equipment is operated within the excavation for the purpose of placement of compaction of fill material, this equipment shall not be driven directly on the exposed bottom of the excavation. A minimum of one foot of fill material shall be maintained below the vehicle tracks or wheels at all times.
- The select fill material shall meet the following requirements:
  - Coarse fragment content less than 15% by volume or less than 25% by weight.
  - Textural analysis, from 85 to 95 percent sand, from 5 to 15 percent silt plus clay, min. two percent clay.
  - Permeability from 2 to 20 inches/hour.
- Based upon the final inspection, a professional engineer shall certify by signature and seal that compaction to fill has been performed adequately to prevent failure of any component of system due to excessive settlement or differential settlement.
- The Monmouth County Health Department requires that a permeability class rating test be performed on the select fill. In addition, a percolation or tube permeator test must be done on the fill after compaction.
- Gravel filter material to be N.J.D.O.T. # 3, 4 or 24.
- PERC test shall be performed and certified by professional engineer for Soils of Zone of Treatment
- BENCHMARK: PROP. INLET #14 INV.OUT = 158.65
- WATER SOFTENER DISCHARGES ARE NOT PERMITTED INTO SEPTIC SYSTEM.
- Proposed Well on this lot is located more than 100' from any proposed and or existing disposal beds.
- Proposed disposal bed on this lot is located more than 50' from any proposed and or existing disposal beds.



### INDIVIDUAL SUBSURFACE DISPOSAL SYSTEM DESIGN:

Type of use  
No. of Bedrooms  
Total Design Flow, G.P.D.

Min. Tank size based on Design Flow, Gal.  
Min. Tank size req. by code, Gal.  
Prop. Tank size, Gal.

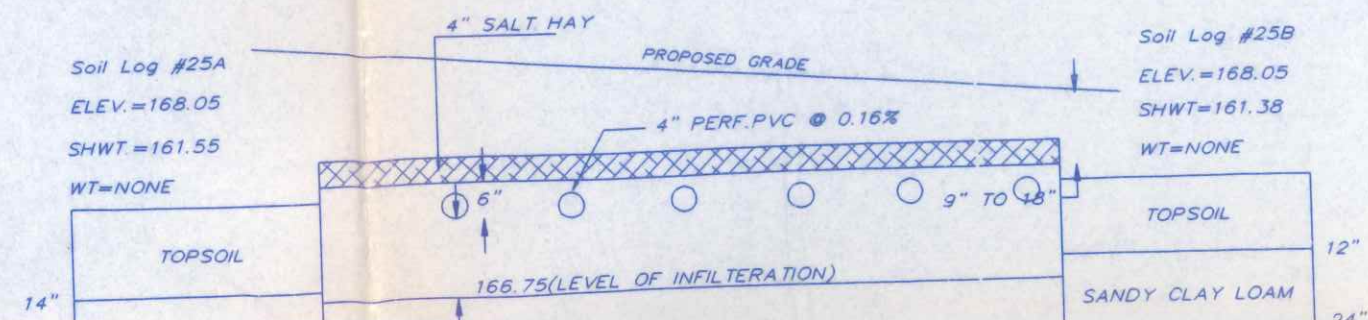
Soil permeability Class rating  
Min. field size s.f./gal  
Min. Disposal field size, s.f.  
Proposed field width, ft.  
Proposed field length, ft.  
Prop. field size, s.f.

Length of distribution laterals, ft.\*\*  
No. of distribution laterals\*\*\*  
Total length of Perf. pipe, ft.

The proposed well shall not be constructed within 100 feet of any existing or proposed septic system

NOTES:

1. The Design, Construction and Installation of:
  - Connecting pipes and delivery pipes shall conform to the specifications set forth in Section NJAC 7.9A-9.3.
  - Septic tank shall conform to the specifications set forth in Section NJAC 7.9A-8.2.
  - Distribution box shall conform to the specifications set forth in Section NJAC 7.9A-9.4.
  - Disposal laterals shall conform to the specifications set forth in Section NJAC 7.9A-9.5. Max. Slope shall be 2"/100'
  - Disposal field shall conform to specifications set forth in Section NJAC 7.9A-10.4
2. The operation and maintenance of the proposed septic system conform to specifications set forth in Section NJAC 7.9A-12.
3. Compaction of fill material shall be carried out in accordance with the following requirements:
  - A. Fill material shall be spread and compacted in layers of 4" foot or lesser in thickness.
  - B. Compaction may be accomplished manually or mechanical controlled pattern using tracked or rubber-tired vehicles. Compaction may also be accomplished by puddling.
  - C. When heavy excavating equipment is operated within the excavation for the purpose of placement of compaction of fill material, equipment shall not be driven directly on the exposed bottom of the excavation. A minimum of one foot of fill material shall be maintained below the vehicle tracks or wheels at all times.
  - D. The select fill material shall meet the following requirements:
    - 1) Coarse fragment content less than 15% by volume and less than 25% by weight.
    - 2) Textural analysis, from 85 to 95 percent sand, 5 to 15 percent silt plus clay, min. two percent clay.
    - 3) Permeability from 2 to 20 inches/hour.
  - E. Based upon the final inspection, a professional engineer shall certify by signature and seal that compaction to fill has been performed adequately to prevent failure of any component due to excessive settlement or differential settlement.
  - F. The Monmouth County Health Department requires that a class rating test be performed on the select fill. In addition, a percolation or tube permeator test must be done on the compacted fill.
  - G. Gravel filter material to be N.J.D.O.T. # 3, 4 or 24.
  - H. PERC test shall be performed and certified by professional engineer for Soils of Zone of Treatment
  - I. BENCHMARK: PROP. INLET #14 INV. OUT = 158.65
  - J. WATER SOFTENER DISCHARGES ARE NOT PERMITTED INTO THE PROPOSED DISPOSAL BEDS.
  - K. Proposed Well on this lot is located more than 100' from proposed and or existing disposal beds.
  - L. Proposed disposal bed on this lot is located more than 50' from proposed and or existing disposal beds.





# BLOCK 8424

LOT 17

250.00'



LOT 16  
60,250 sq. ft.  
1.38 acres

S 56°52'47" W

LOT 13



241.00'

LOT

S 33°07'13" E

168

35' SIDE SETBACK (TYP.)

85.49'

168.86

50' REAR SETBACK (TYP.)

168

53.50'

168.43

168

85.49'

PROPOSED DWELLING  
F.F.E. = 172.88  
O.F.F.E. = 169.88  
B.F.E. = 163.88

100' FRONT SETBACK (TYP.)

INV. = 169.20  
WATER SOFTENER DISCHARGES ARE  
NOT PERMITTED INTO THE SEPTIC SYSTEM.

41 LF 4" PVC  
@ 2.00%

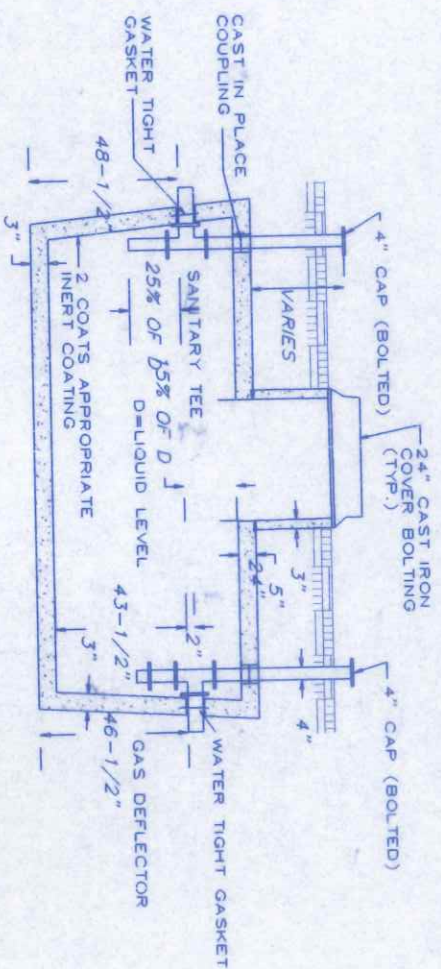
SEPTIC TANK  
INV. IN = 168.38  
INV. OUT = 168.21

250.00'

LOT 15



LOT 17



## 1,350 Gal.

TANK TAPERS FROM TOP TO BOTTOM, AND IS TRAPEZOIDAL IN CROSS SECTION. TANK IS 4,000 P.S.I. CONCRETE, STEEL REINFORCED. CONCRETE CONFORMS TO ACI 318-16-4.5.1. AND 318-16-4.5.2