

**LOT 25-2
BLOCK 77 ZONE: R-15**

VILLAGE OF MAMARONECK, NY N.T.S.

ORIENTATION

SITE INFORMATION:

PROPERTY OWNER:	SCOTT & ORLY MILLER 70 GREENHAVEN ROAD RYE, NY 10580
PROJECT LOCATION:	2 SHORE ROAD MAMARONECK, NY 10543
ZONE:	R-15, SINGLE-FAMILY RESIDENCE
EXISTING USE:	SINGLE-FAMILY RESIDENCE
BLOCK/LOT:	77/25-2
SITE AREA:	1.73 ACRES (75,355.93 SQ.FT.)
SEWAGE FACILITIES:	ON-SITE SEPTIC SYSTEM
WATER FACILITIES:	PUBLIC WATER
WATERSHED BASIN:	COASTAL LONG ISLAND SOUND

2	09/06/2023	ISSUED FOR SITE PLAN APPROVAL
1	08/14/2023	ORIGINAL ISSUE DATE
No.	Date	Revision

DRAWING LIST

Drawing Title	NUMBER	ORIG. DATE	REVISED DATE
COVER SHEET	CV-1	08/14/2023	09/06/2023
ZONING SITE PLAN	ZSP-1	06/30/2023	09/06/2023
SITE UTILITY & GRADING PLAN	SE-2	09/06/2023	-
SEDIMENT & EROSION CONTROL STORMWATER POLLUTION PREVENTION PLAN	SE-3	09/06/2023	-
NOTES & SOILS DATA	SE-4	09/06/2023	-
DETAILS	SE-5	09/06/2023	-
DETAILS	SE-6	09/06/2023	-

**COVER SHEET
DEPICTING
2 SHORE ROAD
MAMARONECK, NY
PREPARED FOR
SCOTT & ORLY MILLER**

SCALE: 0 30 60
1"=30'

DRAWN BY: SPC CHECKED BY: DRG

DAVID R. GINTER N.Y. P.E. 102920-01
September 6, 2023
DATE

This document and copies thereof are void if they bear the signature and embossed seal of the undersigned without the presence of the original. Unauthorised alterations render any declarations herein null & void.

SHEET No: **CV-1**

LAND SURVEYING
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Tel: 203.327.0500 | Fax: 203.357.1118
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Comm. No.: 10393

In accordance with the New York State Education Law Sec. 7209, it is a violation for any person, unless he or she is acting under the direction of the certifying licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall file to the firm his or her seal and the notation "altered" followed by his or her signature and the date of such alteration, and a specific description of the alteration.

ALL DATA EXTERIOR OF THE SUBJECT PARCEL IS REPRESENTATIVE OF WESTCHESTER COUNTY GIS DATA.

ZONE X

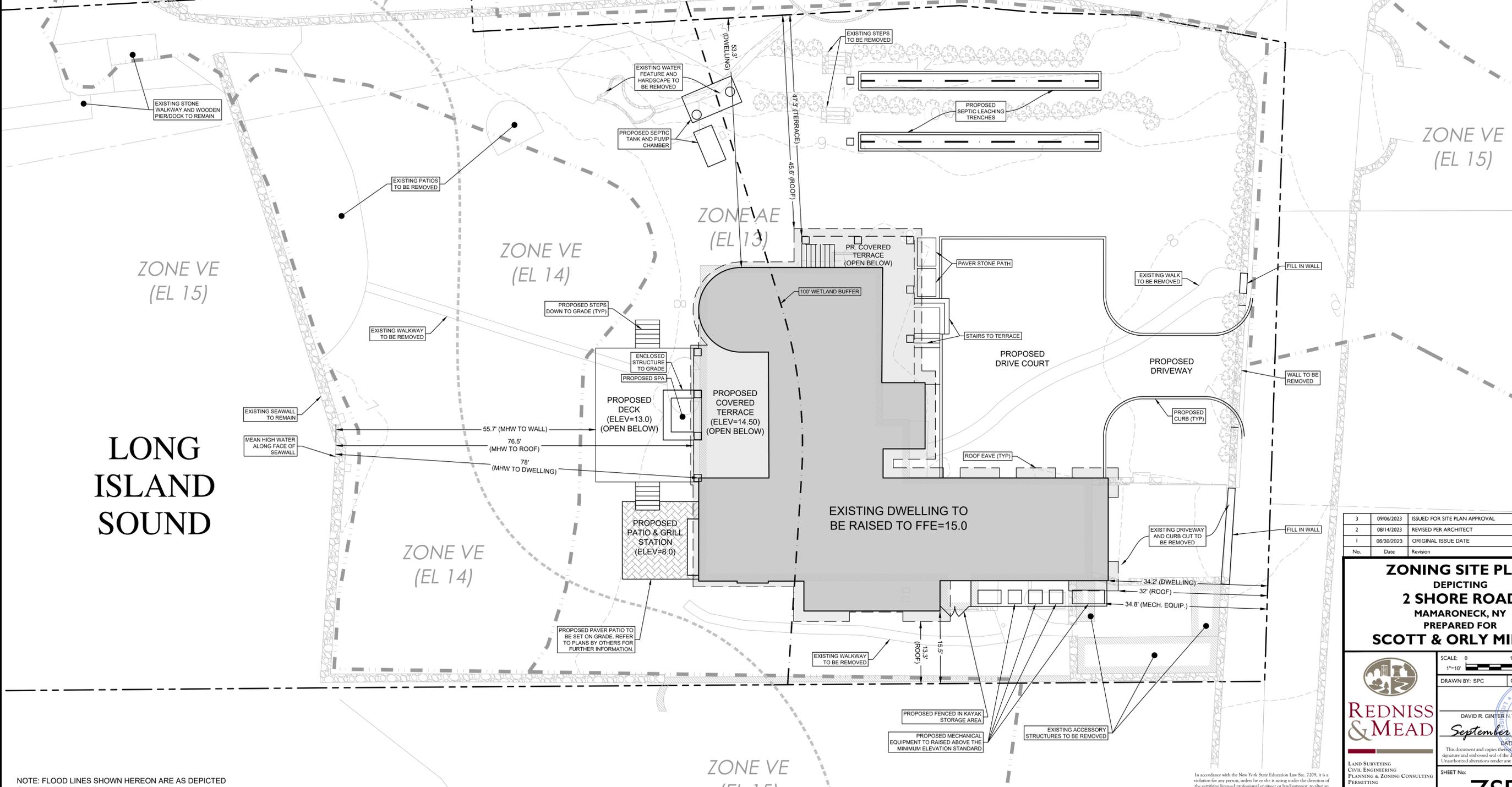
ZONING DATA CHART (ZONE: R-15)

REQUIREMENT	ALLOWED/REQUIRED	EXISTING	PROPOSED
Minimum Lot Area	15,000 sf	75,355.9 sf (1)	75,355.9 sf (1)
Minimum Width/Frontage	100 ft	136'	no change
Minimum Depth	100 ft	201' (from MHW)	no change
Building Coverage	35%	31.1% (2)	30.4% (2)
Minimum Front Yard	25 ft	37.7' (Shed:10.0')	34.2'
Min. Least Side Yard	15 ft	15.8' (Shed:1.9')	15.5'
Min. Total Side Yards	35 ft	66.8'	62.8'
Minimum Rear Yard	30 ft	79.0' (from MHW)	51.5' (MHW to terrace wall)
Max. Building Height	2 1/2 stories	n/a	2 1/2 stories
	35 ft	n/a	36.75'
Min. Habitable Floor Area	1 Story: 1,650 sf	n/a	n/a
	2 Stories: 1,800 sf	8,801 sf (3)	7,234 sf

(1) As represented on the Topographic Survey Prepared for Scott Miller by TC Merritts Land Surveyors last revised on September 9, 2022. Upland Area (area above Mean High Water) = 30,904± sf. Upland Area excluding Right of Way = 29,669 sf.
 (2) Excludes lot area below mean high water and area within the Right of Way.
 (3) "Living Area" as represented on the Property Description Report.

NATURAL PROTECTIVE FEATURE AREA BOUNDARY AS PER "COASTAL EROSION HAZARD AREA MAP" VILLAGE OF MAMARONECK, PREPARED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, MAP DATED JANUARY 6, 1989

LONG ISLAND SOUND



No.	Date	Revision
3	09/06/2023	ISSUED FOR SITE PLAN APPROVAL
2	08/14/2023	REVISED PER ARCHITECT
1	06/30/2023	ORIGINAL ISSUE DATE

ZONING SITE PLAN
 DEPICTING
2 SHORE ROAD
 MAMARONECK, NY
 PREPARED FOR
SCOTT & ORLY MILLER

SCALE: 0 10 20
 1"=10'

DRAWN BY: SPC CHECKED BY: DRG

DAVID R. GINTER N.Y. P.E. 102920-01
 September 6, 2023
 DATE

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SHEET No:
ZSP-1

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NOTE: FLOOD LINES SHOWN HEREON ARE AS DEPICTED ON FEMA FIRM MAP #36119C0354F, EFFECTIVE 9/28/2007 AS AMENDED BY LOMR 21-02-0550P EFFECTIVE 4/20/2022

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LONG ISLAND

GENERAL INFORMATION:

- OWNERS' NAMES: SCOTT & ORLY MILLER
- OWNER'S MAILING ADDRESS: 70 GREENHAVEN ROAD, RYE, NY 10580
- PROJECT SITE ADDRESS: 2 SHORE ROAD, MAMARONECK, NY 10543 EXISTING OWTS WCDH APPROVAL NUMBER: NOT AVAILABLE. A FOIL REQUEST FOR THE PROPERTY WAS MADE ON SEPTEMBER 17, 2021 BUT NO RECORDS WERE FOUND.
- TAX MAP DESIGNATION NUMBER: 155.61-1-8
- WATERSHED BASIN: COASTAL LONG ISLAND SOUND
- ESTIMATED START OF CONSTRUCTION: 2024
- ESTIMATED END OF CONSTRUCTION: 2026
- ANTICIPATED LAND DISTURBANCE: 25,300 SQ.FT.±

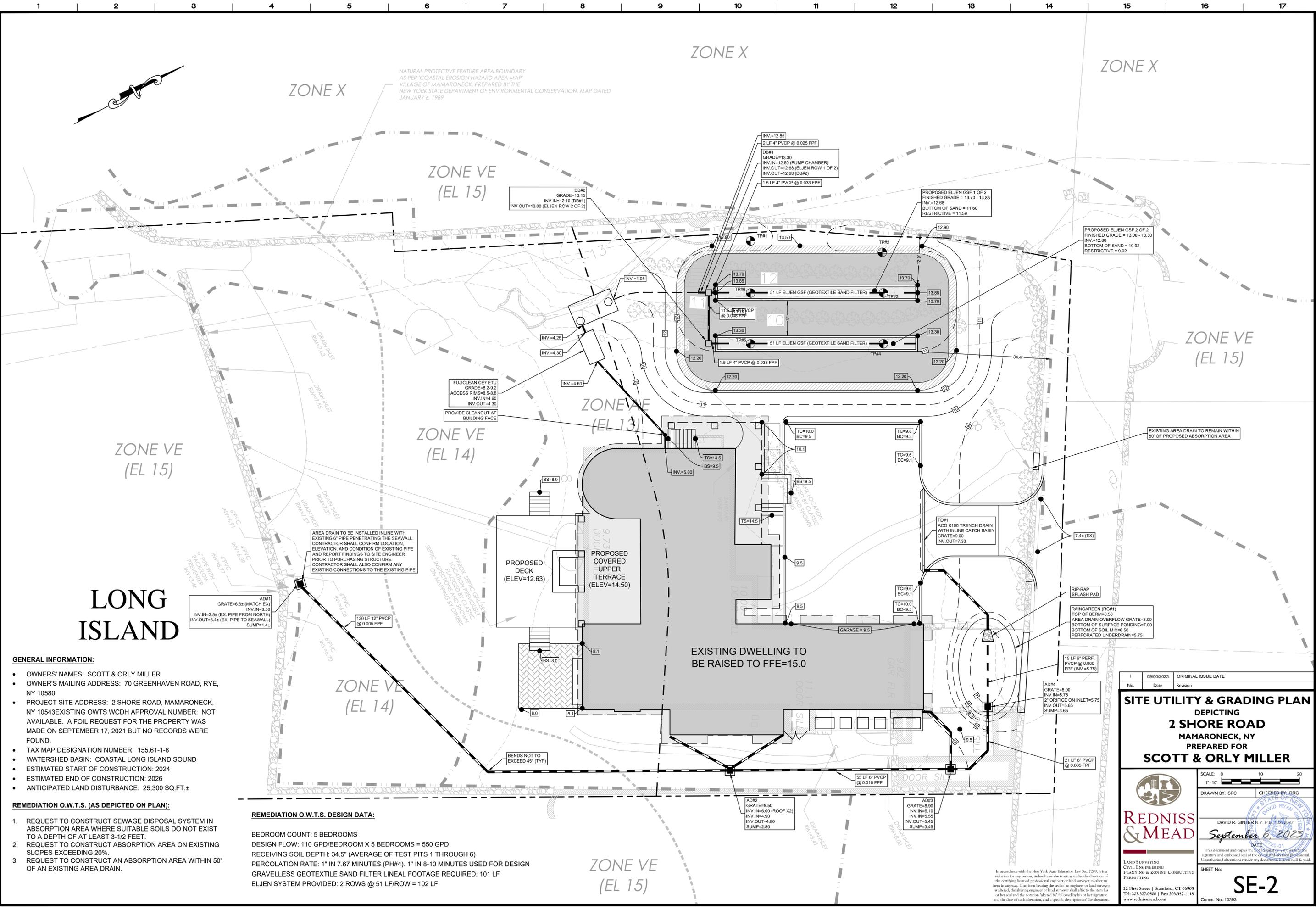
REMEDIATION O.W.T.S. (AS DEPICTED ON PLAN):

- REQUEST TO CONSTRUCT SEWAGE DISPOSAL SYSTEM IN ABSORPTION AREA WHERE SUITABLE SOILS DO NOT EXIST TO A DEPTH OF AT LEAST 3-1/2 FEET.
- REQUEST TO CONSTRUCT ABSORPTION AREA ON EXISTING SLOPES EXCEEDING 20%.
- REQUEST TO CONSTRUCT AN ABSORPTION AREA WITHIN 50' OF AN EXISTING AREA DRAIN.

REMEDIATION O.W.T.S. DESIGN DATA:

BEDROOM COUNT: 5 BEDROOMS
 DESIGN FLOW: 110 GPD/BEDROOM X 5 BEDROOMS = 550 GPD
 RECEIVING SOIL DEPTH: 34.5" (AVERAGE OF TEST PITS 1 THROUGH 6)
 PERCOLATION RATE: 1" IN 7.67 MINUTES (PH#4). 1" IN 8-10 MINUTES USED FOR DESIGN
 GRAVELLESS GEOTEXTILE SAND FILTER LINEAL FOOTAGE REQUIRED: 101 LF
 ELJEN SYSTEM PROVIDED: 2 ROWS @ 51 LF/ROW = 102 LF

NATURAL PROTECTIVE FEATURE AREA BOUNDARY AS PER 'COASTAL EROSION HAZARD AREA MAP' VILLAGE OF MAMARONECK, PREPARED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, MAP DATED JANUARY 6, 1989



No.	Date	Revision
1	09/06/2023	ORIGINAL ISSUE DATE

SITE UTILITY & GRADING PLAN
 DEPICTING
2 SHORE ROAD
 MAMARONECK, NY
 PREPARED FOR
SCOTT & ORLY MILLER

SCALE: 0 10 20
 1"=10'

DRAWN BY: SPC CHECKED BY: DRG

DAVID R. GINTER N.Y.P.E. 107220-01
 September 6, 2023
 DATE

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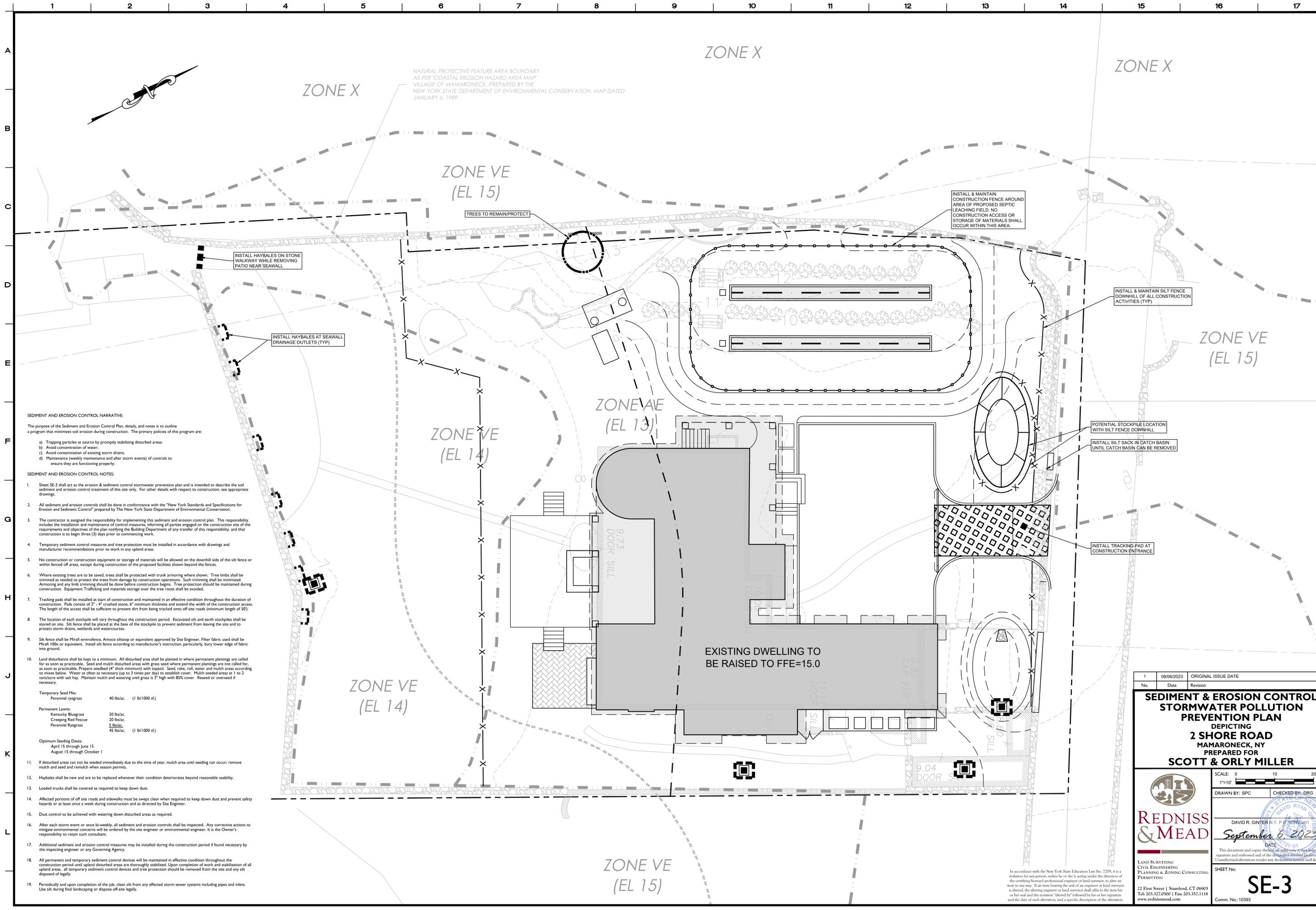
SHEET No: **SE-2**

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NATURAL PROTECTIVE FEATURE AREA BOUNDARY AS PER "COASTAL EROSION HAZARD AREA MAP" VILLAGE OF MAMARONECK, PREPARED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, MAP DATED JANUARY 6, 1989

SEDIMENT AND EROSION CONTROL NARRATIVE:

The purpose of the Sediment and Erosion Control Plan, details, and notes is to outline a program that minimizes soil erosion during construction. The primary policies of this program are:

- a) Trapping particles at source by promptly stabilizing disturbed areas;
- b) Avoid concentration of water;
- c) Avoid contamination of existing storm drains;
- d) Maintenance (weekly maintenance and after storm events) of controls to ensure they are functioning properly;

SEDIMENT AND EROSION CONTROL NOTES:

1. Sheet SE-3 shall act as the erosion & sediment control stormwater prevention plan and is intended to describe the soil sediment and erosion control treatment of this site only. For other details with respect to construction, see appropriate drawings.
2. All sediment and erosion controls shall be done in conformance with the "New York Standards and Specifications for Erosion and Sediment Control" prepared by The New York State Department of Environmental Conservation.
3. The contractor is assigned the responsibility for implementing this sediment and erosion control plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan notifying the Building Department of any transfer of this responsibility, and that construction is to begin three (3) days prior to commencing work.
4. Temporary sediment control measures and tree protection must be installed in accordance with drawings and manufacturer recommendations prior to work in any upland areas.
5. No construction or construction equipment or storage of materials will be allowed on the downhill side of the silt fence or within fenced off areas, except during construction of the proposed facilities shown beyond the fences.
6. Where existing trees are to be saved, trees shall be protected with trunk armoring where shown. Tree limbs shall be trimmed as needed to protect the trees from damage by construction operations. Such trimming shall be minimized. Armoring and any limb trimming should be done before construction begins. Tree protection should be maintained during construction. Equipment Trafficking and materials storage over the tree roots shall be avoided.
7. Tracking pads shall be installed at start of construction and maintained in an effective condition throughout the duration of construction. Pads consist of 2' - 4" crushed stone, 6" minimum thickness and extend the width of the construction access. The length of the access shall be sufficient to prevent dirt from being tracked onto off site roads (minimum length of 50').
8. The location of each stockpile will vary throughout the construction period. Excavated silt and earth stockpiles shall be stored on site. Silt fence shall be placed at the base of the stockpile to prevent sediment from leaving the site and to protect storm drains, wetlands and watercourses.
9. Silt fence shall be Mirafi Envirofence, Amoco siltstop or equivalent approved by Site Engineer. Filter fabric used shall be Mirafi 100x or equivalent. Install silt fence according to manufacturer's instruction, particularly, bury lower edge of fabric into ground.
10. Land disturbance shall be kept to a minimum. All disturbed area shall be planted in where permanent plantings are called for as soon as practicable. Seed and mulch disturbed areas with grass seed where permanent plantings are not called for, as soon as practicable. Prepare seedbed (4" thick minimum) with topsoil. Seed, rake, roll, water and mulch areas according to mixes below. Water as often as necessary (up to 3 times per day) to establish cover. Mulch seeded areas at 1 to 2 tons/acre with silt bag. Maintain mulch and watering until grass is 3" high with 85% cover. Re-seed or overseed if necessary.

Temporary Seed Mix:		
Perennial ryegrass	40 lbs/ac.	(1 lb/1000 sf.)
Permanent Lawns:		
Kentucky Bluegrass	20 lbs/ac.	
Creeping Red Fescue	20 lbs/ac.	
Perennial Ryegrass	5 lbs/ac.	
	45 lbs/ac.	(1 lb/1000 sf.)

Optimum Seeding Dates:
 April 15 through June 15
 August 15 through October 1

11. If disturbed areas can not be seeded immediately due to the time of year, mulch area until seeding can occur; remove mulch and seed and re-mulch when season permits.
12. Haybales shall be new and are to be replaced whenever their condition deteriorates beyond reasonable usability.
13. Loaded trucks shall be covered as required to keep down dust.
14. Affected portions of off site roads and sidewalks must be swept clean when required to keep down dust and prevent safety hazards or at least once a week during construction and as directed by Site Engineer.
15. Dust control to be achieved with watering down disturbed areas as required.
16. After each storm event or once bi-weekly, all sediment and erosion controls shall be inspected. Any corrective actions to mitigate environmental concerns will be ordered by the site engineer or environmental engineer. It is the Owner's responsibility to retain such consultant.
17. Additional sediment and erosion control measures may be installed during the construction period if found necessary by the inspecting engineer or any Governing Agency.
18. All permanent and temporary sediment control devices will be maintained in effective condition throughout the construction period until upland disturbed areas are thoroughly stabilized. Upon completion of work and stabilization of all upland areas, all temporary sediment control devices and tree protection should be removed from the site and any silt disposed of legally.
19. Periodically and upon completion of the job, clean silt from any affected storm sewer systems including pipes and inlets. Use silt during final landscaping or dispose off-site legally.

No.	Date	Revision
1	09/06/2023	ORIGINAL ISSUE DATE

**SEDIMENT & EROSION CONTROL
 STORMWATER POLLUTION
 PREVENTION PLAN
 DEPICTING
 2 SHORE ROAD
 MAMARONECK, NY
 PREPARED FOR
 SCOTT & ORLY MILLER**

SCALE: 0 10 20
 1"=10'

DRAWN BY: SPC CHECKED BY: DRG

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DAVID R. GINTER N.Y.P.E. 10292-01
 September 6, 2023
 DATE

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SHEET No: **SE-3**

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GENERAL NOTES: 1. These drawings are intended only to depict the design of site grading, drainage, septic & erosion controls associated with a new 5-bedroom septic system. These drawings are for Westchester County Department of Health review for a Construction Approval Application. No construction may begin prior to obtaining all necessary permits and approvals.

PUMP CHAMBER/ DISTRIBUTION BOXES: 41. A 2,000 gallon pump chamber by Eastern Precast is specified on detail sheet SS-3. Alternate chamber shall only be permitted after reviewed and approved by project engineer. The use of an alternate chamber may require re-design of pump & pump float elevations.

91. Detectable Tape shall be used to mark piping listed below. The identification tape shall be buried at least 6-inches to 10-inches below final grade but no closer than 12-inches to the buried utility piping or service. Electric Telephone & Control Gas Fire Systems IS & S Communication Conduit

126. Finished paving shall be free of "bird baths" and be smooth at the slopes specified on the plans. 127. Finished grade shall be within 1/2 inch of that noted on the drawings. 128. The pavement shall be protected from vehicular traffic of any kind with the use of barricades, etc. for a minimum period of 24 hours after final rolling.

134. The design professional shall supervise the construction of the OWTS and make an open works inspection. 135. Within 24-hours of the completion of the OWTS, the design professional must notify the Westchester County Department of Health (WCDH) that the OWTS is ready for inspection by submitting a completed request for an open works inspection on the appropriate form to WCDH.

12. Prior to issuance of a Certificate of Construction Compliance, the Westchester County Department of Health will require a certification letter stating that the replacement septic system, pump chamber and all associated piping was constructed in accordance to the approved plans, and an "as-built" drawing shall be submitted. 13. The work shall be done in conformance with the contract documents/plans unless changes have been approved in writing by the design engineer prior to the work being done.

42. The pipe beyond the cast iron pipe adaptor @ the base of the slide rail system shall be schedule 40 PVC pipe with solvent weld joints. 43. Site engineer to be notified 48 hours prior to the installation of the pump station and shall be on-site during excavation and installation. 44. Distribution boxes shall be precast concrete and shall comply with figure 6-7 - Distribution Flow Devices within the WCDOH Rules & Regulations for the Design & Construction of Residential Subsurface Sewage Treatment Systems.

92. Underground-Type Plastic Line Marker: Manufacturer's standard permanent, bright-colored detectable tape, continuous-printed plastic tape, intended for direct-burial service; not less than 6" wide X 4 mils thick. 93. Provide water service piping materials and factory-fabricated piping products of sizes, types, pressure ratings, temperature ratings, and capacities as indicated. Where not indicated, provide proper selection as determined by installer to comply with installation requirements meeting the State, Village, and applicable provider requirements.

WESTCHESTER COUNTY DEPARTMENT OF HEALTH NOTES: 130. There shall be no trees within 10 feet of the OWTS. 131. There are no wells within 200 feet of the OWTS. 132. The proposed OWTS area shall be isolated and protected against damage by erosion, storage of earth or materials, displacement, compaction or other adverse physical change in the characteristics of the soil or in the drainage of the area.

137. After backfilling the OWTS, the area shall be covered with a minimum of 4 inches of clean top soil, seeded and mulched. 138. The installation of the OWTS shall be in accordance with the Rules and Regulations for the Design and Construction of Residential Subsurface Sewage Treatment Systems and Drilled Wells in Westchester County, NY. 139. All pipes connecting to tank and boxes shall be cut flush with the inside wall of box.

SEPTIC SYSTEM NOTES: 15. The following must be excluded from the septic tank: Roof & framing drains, cellar and garage drains, cooling water, materials not readily degraded (paper towels, newspaper, wrapping paper, rags, sanitary napkins, disposable diapers, coffee grounds, cooling coils, bones, facial tissue and cigarette butts, etc.), garbage disposal/grinder discharge, sump pump discharge, large hot tubs. 16. Prior to construction, the Contractor shall contact the Inspecting Engineer and the Westchester County Department of Health at least 72 hours prior to starting to establish the schedule for the inspection program.

PREPARATION OF THE PRIMARY LEACHING AREAS: 59. Prior to placement of leaching facilities look for existing drainage pipes. If such pipes are encountered, contact the design engineer for inspection/redesign. 60. Prior to placement of leaching facilities, remove all trees, grass, topsoil, vegetation, leaves & litter, shrubs, stumps, rocks larger than 24" roots within 5' of the system or under fill footprint. Voids made by stump and rock removal shall be filled with select fill material.

101. Couplings and Adapters: Sleeve-type couplings for plain end pipe shall be provided with plain rubber gaskets and steel, one-headed bolts with nuts. Couplings shall be given a shop coat compatible with the same outside coating as the pipe specified above. Couplings shall be furnished preassembled, as manufactured by Dresser Industries, Inc., Smith-Blair, Coupling Systems, Inc., or equal. 102. Gate valves shall be of the double disc, parallel seat type with cast-iron body bronze stem and rings designed for 175 pounds per square inch working pressure.

TEST PIT RESULTS

Table with columns: DEPTH, G.L., HOLE NO. 1, HOLE NO. 2, HOLE NO. 3, HOLE NO. 4. Rows include soil types like Silty loam, Moderate compacted sands, and Hole depths.

WAS GROUNDWATER ENCOUNTERED Not in test pits 1 through 4 INDICATE LEVEL AT WHICH GROUND WATER IS ENCOUNTERED N/A

DESIGN Soil Rate Used 8-10 Min/1" Drop: S.D. Usable Area Provided No. of Bedrooms 5 Septic Tank Capacity 270 Gals. Masonry Metal

TEST PIT DATA REQUIRED TO BE SUBMITTED WITH APPLICATION DESCRIPTION OF SOILS ENCOUNTERED IN TEST HOLES

Table with columns: DEPTH, G.L., HOLE NO. 5, HOLE NO. 6, HOLE NO., HOLE NO. Rows include soil types like Fine sandy loam, Moderate compacted silty loam, and Hole depths.

WAS GROUNDWATER ENCOUNTERED Yes INDICATE LEVEL AT WHICH GROUND WATER IS ENCOUNTERED -51" INDICATED LEVEL FOR WHICH WATER LEVEL RISES AFTER BEING ENCOUNTERED -51" DEEPEST MADE BY Hole #5 DATE OF DEEP TESTS May 11, 2022

DESIGN Soil Rate Used 8-10 Min/1" Drop: S.D. Usable Area Provided No. of Bedrooms 5 Septic Tank Capacity 270 Gals. Masonry Metal

PERCOLATION TEST RESULTS

Table with columns: Hole #, Hole Number, Run No., Start, Stop, Elapse Time Min., Depth to Water From Ground Surface, Water Level Drop In Inches, Percolation Rate Min/in Drop. Rows 1-6.

Table with columns: Hole #, Hole Number, Run No., Start, Stop, Elapse Time Min., Depth to Water From Ground Surface, Water Level Drop In Inches, Percolation Rate Min/in Drop. Rows 7-12.

Table with columns: Hole #, Hole Number, Run No., Start, Stop, Elapse Time Min., Depth to Water From Ground Surface, Water Level Drop In Inches, Percolation Rate Min/in Drop. Rows 13-18.

Table with columns: I, 09/06/2023, ORIGINAL ISSUE DATE

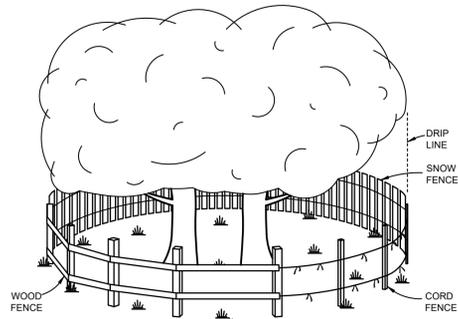
NOTES & SOILS DATA DEPICTING 2 SHORE ROAD MAMARONECK, NY PREPARED FOR SCOTT & ORLY MILLER

SCALE: N.T.S. DRAWN BY: SPC CHECKED BY: DRG DAVID R. GINTER N.Y. P.E. 102720-01 September 6, 2023

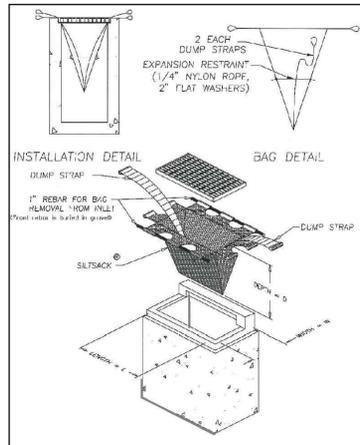
LAND SURVEYING CIVIL ENGINEERING PLANNING & ZONING CONSULTING PERMITTING REDNISS & MEAD 22 First Street | Stamford, CT 06905 Tel: 203.327.0500 | Fax: 203.357.1118 www.rednissmead.com

SE-4

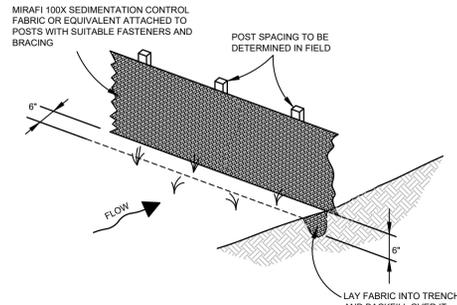
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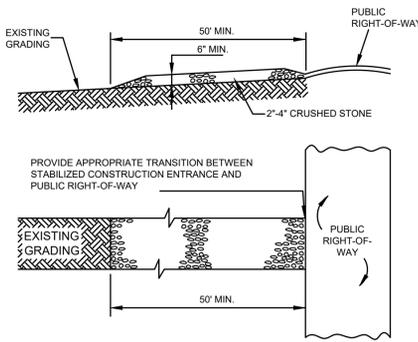
TREE PROTECTION
(SHOWING ACCEPTABLE TYPES OF FENCING)
N.T.S.



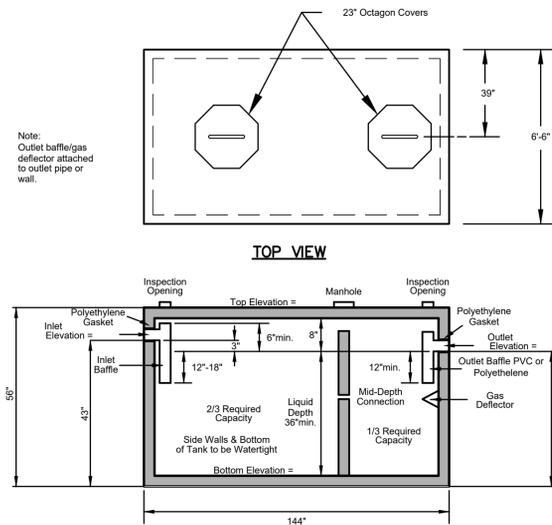
INLET SEDIMENT CONTROL DEVICE
(SILT SACK)
N.T.S.



FABRIC & POST SILTATION BARRIER
(SILT FENCE)
N.T.S.

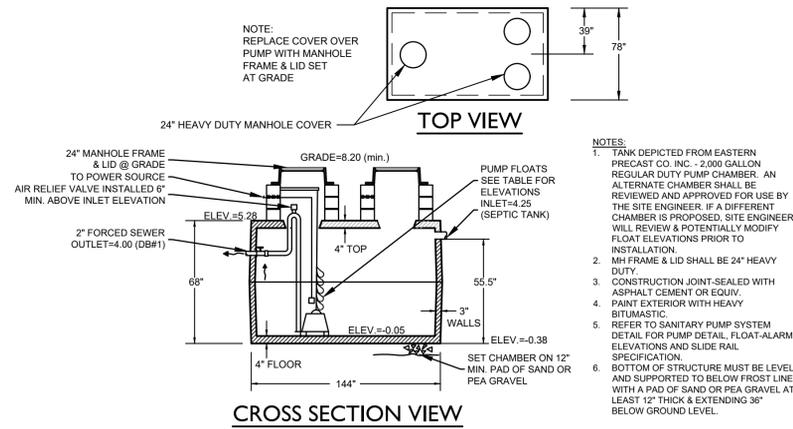


STABILIZED CONSTRUCTION ENTRANCE
(TRACKING PAD)
N.T.S.

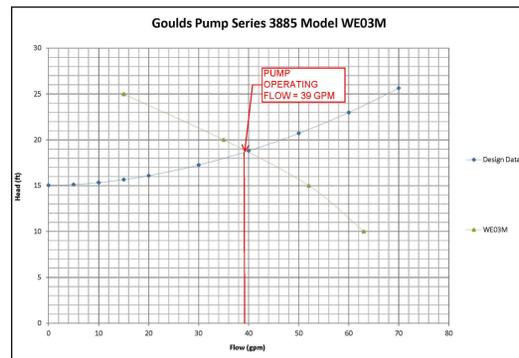


- NOTES:**
- Concrete to be 4000psi per ASTM standards.
 - Septic tank construction shall conform to ASTM C-1227-95.
 - Tanks greater than ten feet in length shall have one manhole per chamber.
 - Manhole covers to have the following placards:
- "DANGER! NOXIOUS GASES"
- "TANK CONTAINS TWO COMPARTMENTS"
5. All covers shall be provided with handles consisting of 3/8" coated rebar or approved plastic with at least 2 ounces of steel attached.
 - Septic tank by Eastern Precast or equivalent.

1500 GAL. SEPTIC TANK DETAIL
N.T.S.



2,000 GAL. PUMP CHAMBER (PC#1)
(BY EASTERN PRECAST OR EQUIV.)
N.T.S.



PUMP CHAMBER SIZING CALCULATIONS:
(BASED ON CT PRECAST 2,000 GALLON REGULAR DUTY PUMP CHAMBER DIMENSIONS)

- WCDH SEPTIC SYSTEMS REQUIRE DOSING WHEN TOTAL TRENCH LENGTH EXCEEDS 500 LF. DOSING REQUIREMENT IS APPROXIMATELY 0.5 GALLONS / LF OF TRENCH:
0.5 GALLONS x 104 LF x (6 SF/LF ELEV) = 156 GALLONS (2 SF/LF TRENCH)
- AN ADDITIONAL 8 GALLONS WILL DRAIN BACK TO CHAMBER (CAPACITY OF 2" FORCED PIPE)
- 156 GALLONS + 8 GALLONS = 164 GALLONS OR 22 CUBIC FEET PER DOSE.
- 22 CF x 4.23 MIN = 93 GPM
- H=0.32± FT OR 3.8"± BETWEEN LEAD PUMP OFF / ON FLOATS

- NOTES:**
- Pumps shall be Goulds Pumps Series 3885 Model WE03M or approved equivalent.
 - Pump will operate at 40± gpm with a total dynamic head of 18.8 ft.
 - Pump cycle time = (1.65 - 1.33) x 60 FT x 7.48 gal/ft³ / 39 gpm = 4.23 minutes.
 - Each discharge line shall have a gate valve installed prior to the 2"x2"x2" tee connection to adjust discharge rate and cycle time.
 - Pump controls shall be installed so that the pumps turn on in an alternating fashion. Pump alarm box shall be located within the primary residence. Pump controller shall be CentriPro D31016 or approved equivalent.
 - Floats shall be set so there is a minimum of 16" of water in the tank at all times. Low water level alarm shall be set 6" below the top of the pump motor.
 - Duplex pump system to be fit with Slide Rail System by CentriPro - Series A10-40 fit for 2" discharge pipes or approved equivalent.
 - Install waterproof electrical junction box as needed to connect pumps to power source, controls and alarm system.
 - All work shall comply with the electrical and plumbing code.
 - Position pump system so gate valves are accessible from the western side of the hatch opening.
 - Site engineer to be notified 48 hours prior to the installation of the pump system and shall be on-site during installation.
 - Cut hole (ø dia. max) in 2" tee as indicated above to allow forced sewer pipe to drain back into pump chamber when pump turns off.

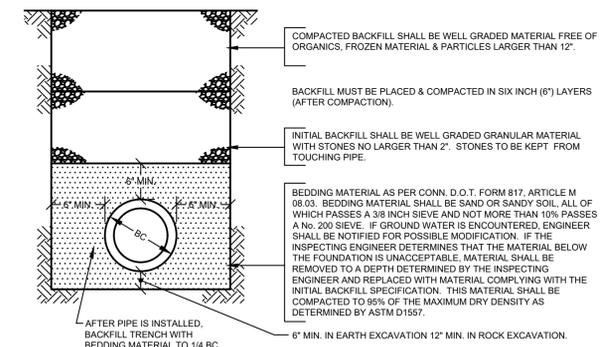
SANITARY PUMP SYSTEM
N.T.S.

WATER STOP: 10' UPSTREAM OF STRUCTURES AND WHERE SHOWN, FOUNDATION MATERIAL, BEDDING, HAUNCHING, INITIAL BACKFILL, AND THE BOTTOM FOOT OF GENERAL BACKFILL TO BE REPLACED WITH SM, SC, OR ML SOIL AS PER "UNIFIED SOIL CLASSIFICATION SYSTEM" WITH MAXIMUM PARTICLE SIZE OF 1-1/2", FOR 3 LINEAR FEET OF TRENCH. WATER STOP TO BE KEYPED INTO TRENCH BOTTOM AND WALLS A MINIMUM OF ONE FOOT. NO STONES LARGER THAN 6" SHALL BE WITHIN 12" OF THE PIPE.

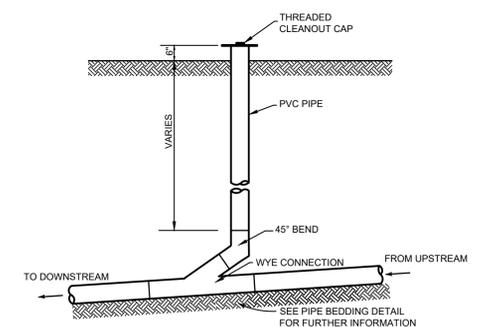
ALL FOUNDATION, INITIAL BACKFILL & BACKFILL MATERIAL TO BE APPROVED BY THE INSPECTING ENGINEER.

ANY DEVIATION FROM THESE METHODS & MATERIALS MUST BE APPROVED IN WRITING BY THE INSPECTING ENGINEER.

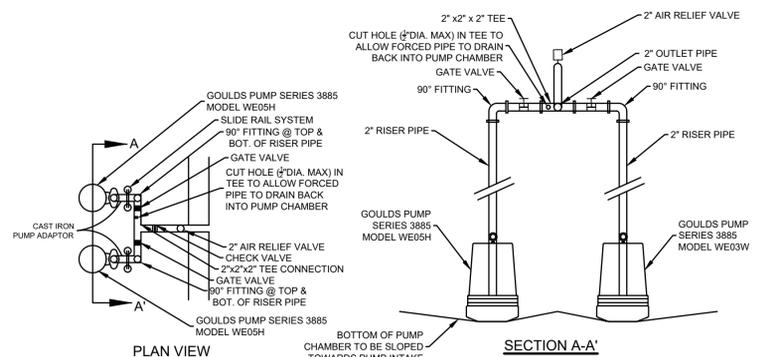
ALL MATERIAL TO BE COMPACTED TO 95% OF THE MAX. DRY DENSITY AS DETERMINED BY ASTM D1557, EXCEPT "COMPACTED BACKFILL" NOT UNDER PAVEMENT WHICH SHALL BE COMPACTED TO A DENSITY AT LEAST EQUAL TO THAT OF THE ADJACENT UNDISTURBED MATERIAL.



PVC PIPE TRENCH BEDDING DETAIL
(48" DIA. & UNDER)
N.T.S.

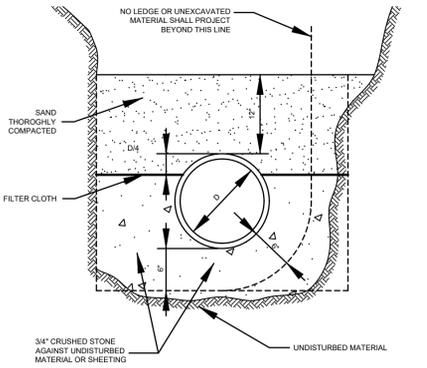


EXPOSED SANITARY CLEANOUT DETAIL
N.T.S.



PUMP CHAMBER SIZING CALCULATIONS:
(BASED ON CT PRECAST 2,000 GALLON REGULAR DUTY PUMP CHAMBER DIMENSIONS)

- WCDH SEPTIC SYSTEMS REQUIRE DOSING WHEN TOTAL TRENCH LENGTH EXCEEDS 500 LF. DOSING REQUIREMENT IS APPROXIMATELY 0.5 GALLONS / LF OF TRENCH:
0.5 GALLONS x 104 LF x (6 SF/LF ELEV) = 156 GALLONS (2 SF/LF TRENCH)
- AN ADDITIONAL 8 GALLONS WILL DRAIN BACK TO CHAMBER (CAPACITY OF 2" FORCED PIPE)
- 156 GALLONS + 8 GALLONS = 164 GALLONS OR 22 CUBIC FEET PER DOSE.
- 22 CF x 4.23 MIN = 93 GPM
- H=0.32± FT OR 3.8"± BETWEEN LEAD PUMP OFF / ON FLOATS



FORCE MAIN TRENCH SECTION
N.T.S.

1	09/06/2023	ORIGINAL ISSUE DATE
No.	Date	Revision

DETAILS
DEPICTING
2 SHORE ROAD
MAMARONECK, NY
PREPARED FOR
SCOTT & ORLY MILLER

SCALE: **N.T.S.**

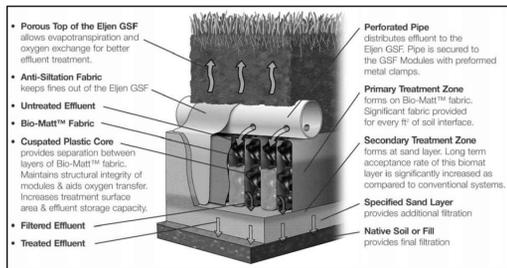
DRAWN BY: SPC CHECKED BY: DRG

REDNISS & MEAD
DAVID R. GINTER N.Y. P.E. 107220-01
September 6, 2023
DATE

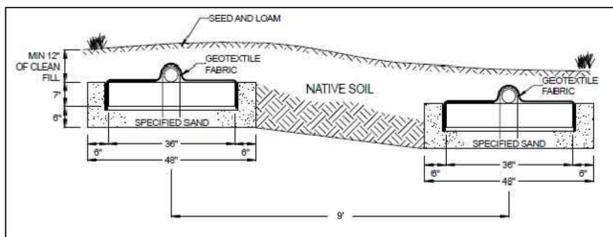
LAND SURVEYING
CIVIL ENGINEERING
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PERMITTING

22 First Street | Stamford, CT 06905
Tel: 203.327.0500 | Fax: 203.357.1118
www.rednissmead.com

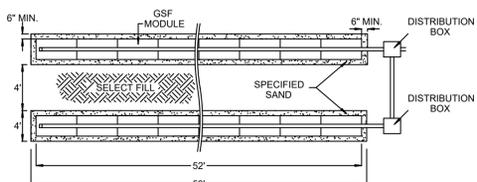
SHEET No: **SE-5**
Comm. No.: 10393



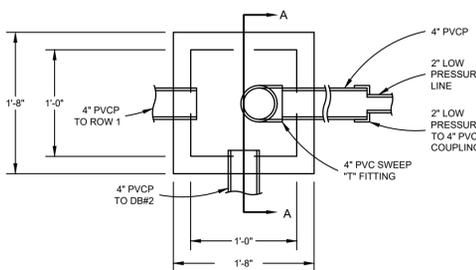
ILLUSTRATION



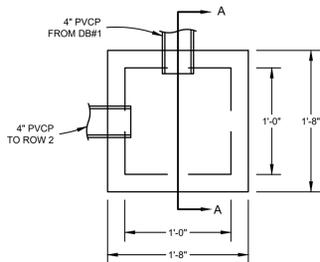
CROSS SECTION



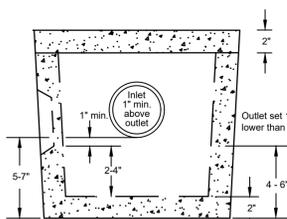
PLAN VIEW
EJEN GSF DETAIL
N.T.S.



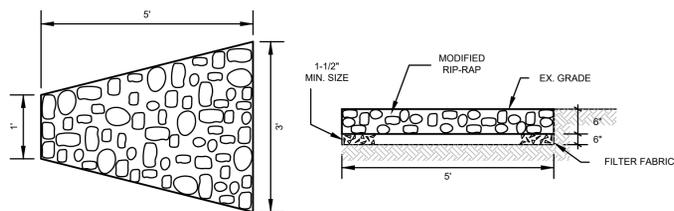
SANITARY JUNCTION BOX (DB#1)
N.T.S.



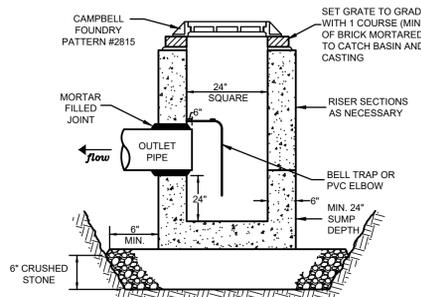
DISTRIBUTION BOX (DB#2)
N.T.S.



- Notes:
1. Concrete 4000 PSI 28 Days
 2. Steel Reinforcing as per ASTM Spec. A-15-57T
 3. 1 Outlet - 1 Inlet All 4\"/>
 - 4. This detail applies to DB#2 ONLY.
 - 5. Must meet WCDH specifications fig. 6+7 - distribution flow devices.
 - 6. Bottom of box must be level and supported to below frost line with a pad of sand or pea gravel at least 12\"/>
 - 7. Waterproof masonry construction.
 - 8. Install tight joint pipe from septic tank to box and between all boxes.

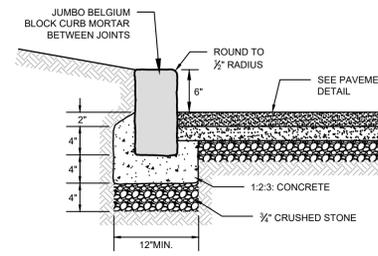


RIP-RAP SPLASH PAD
N.T.S.

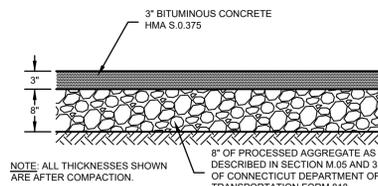


- NOTES:
1. ALL CATCH BASIN COMPONENTS TO BE PRE-CAST REINFORCED CONCRETE, ABLE TO WITHSTAND THE APPLIED EARTH LOADS WITH AN H-20 TRUCK LOAD.
 2. ALL JOINTS TO BE MORTARED.
 3. AREA DRAIN SHALL CONFORM TO ASTM C478.
 4. ALL CRUSHED STONE SHALL BE GRADATION NO. 2 AS PER NYS D.O.T. STANDARD SPECIFICATIONS, VOLUME 4, SECTION 700. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.

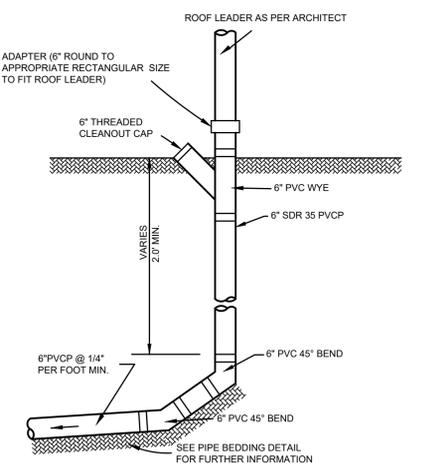
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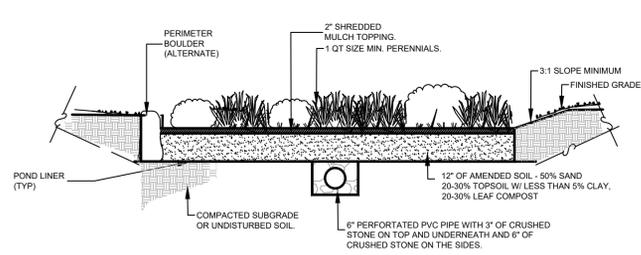
JUMBO BELGIUM BLOCK CURB
N.T.S.



ASPHALT PAVEMENT DETAIL
N.T.S.

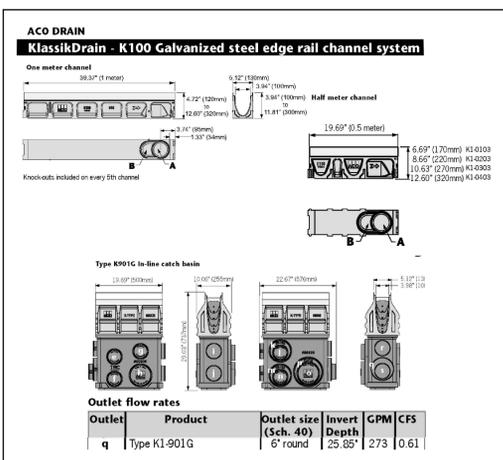


ROOF LEADER CLEANOUT DETAIL
N.T.S.



NOTE: THE RELATIVE DRAINAGE CAPABILITIES OF THE RAIN GARDEN ARE NOT DEPENDENT UPON THE NUMBER, TYPES, OR SIZES OF THE PLANTINGS USED PROVIDED THAT THE AREA REMAINS REASONABLY WELL-VEGETATED. REFER TO THE FOLLOWING LIST FOR SUGGESTED PLANTINGS.

RAIN GARDEN DETAIL
N.T.S.



ACO K100 TRENCH DRAIN WITH INLINE CATCH BASIN DETAIL
N.T.S.

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**DETAILS
DEPICTING
2 SHORE ROAD
MAMARONECK, NY
PREPARED FOR
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SCALE: **N.T.S.**

DRAWN BY: SPC CHECKED BY: DRG

DAVID R. GINTER N.Y. P.E. 10292-01
September 6, 2023
DATE

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SHEET No:
SE-6
Comm. No.: 10393

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