

Underground Septic Tanks & Pump Chambers

- 1.) Tanks shall be structurally sound and to withstand the
- 2.) Tanks shall be watertight and waterproof.
- 4.) Manufacturers of septic tanks shall implement a quality control/ quality assurance program in conformity with ASTM standard C-1227-93. Tanks shall be embossed
- Tanks shall be accessible for inspection and maintainance. No structures shall be located directly upon, above, or near the tanks which may interfere with performance, access, inspection, and pumping or repair.
- 6.) Inlet and outlet tees shall be of cast iron, schedule 40 pvc, or approved equal.
- Septic tanks shall be provided with at least three (3) 20" diameter manholes. Manholes shall be at the center and over each inlet and outlet tee. For compartment tanks, the center manhole shall be the access to the compartment connection. System designs in excess of 1,000 GPD, all manholes shall be made accessible. For system designs of 1,000 GPD or less at least one manhole shall be made accessible. If applicable provide watertight access port (risers), precast concrete or equiv alent, with steps where appropriate. Manhole covers shall be removable, and of impermeable and durable material. Covers shall be within six inches of finished grade and shall be secured to prevent unauthorized

A) Tanks shall be installed true to grade on a level stable base that has been mechanically compacted, and on which six inches of crushed stone has been placed to ensure stability and to prevent settling. Septic tank shall have a minimum of nine inches of cover. B) The inlet and outlet tees shall be installed to the grades shown on the drawings. The tees shall extend a minimum o six inches above the flow line of the septic tank and shall be on the center line of the septic tank and located directly under the access manholes.Cross-sectional flow baffles shall not be used as substitutes for inlet or outlet tees. C) FOR REPAIRS Contractor SHALL when connecting a new septic tank to an existing sewer line. Verify sewer line is Sch. 40 or C.I. in good condition or it shall be replaced. Also that: all out flow pipes from building run thru/to septic tank, and invs. are correct prior to any excavating.

All work in conformance with Mass. State Plumbing Code.

## DESIGN CRITERIA

- 9.) Unless otherwise noted (UON), the design of this system conforms to the requirements of the Commonwealth Of Massachusetts Environmental Code "Title V", and the requirements of the local board of health.
- 10.) The design of this system did not allow for the use o a garbage disposal. 11.) The septic tank shall be inspected and cleaned in accord
- with 310 CMR 15.300 and applicable local requirements. 12.) Grease trap; If applicable, shall be inspected every month, and shall be cleaned every 3 months or when
- 13.) The design of this system conforms with the following minimum distances from the proposed sanitary system: A.) Surface water supply or gravel packed wells....400 ft. B.) Tubular public wells..... C.) Private potable wells.... ..200 ft. D.) non potable / irrigation wells..... E.) Other sanitary soil absorbtion system.....
- 14.) No structures shall be located upon, above, or within 20' of the leaching facility. The reserve area (100% expansion) is considered to be the same as the leaching facility.
- 15.) The top of all system components, including the septic tank, distribution box or dosing chamber and soil absorption system, shall be installed no more than 36" below finish grade.

## Leaching Chambers Area

- 16.) Leaching chamber shall be an ARC-36 HC. LEACHING chamber or engineer approved equal.
- 17.) All installations shall be true to line and grade.
- 18.) All piping shall be PVC SCH. 40
- 19.) Distribution pipe(s) shall have a minimum diameter of 4" and a minimum slope of 0.01.
- 20.) All unsuitable material including top soil and sub soil shall be removed as follows: , and a distance of Remove soils to elevation ft. in all directions of the designated leaching
- 21.) Removed soils shall be replaced with clean sand, meeting the requirements of 310 CMR 15.255(3).

## Inspection Schedule

23.) To obtain the board of health certification, confirmation of the proper installation is required.

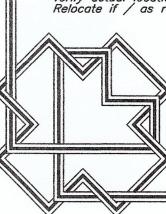
- a.) After Excavation of unsuitable material b.) Placement of the clean back fill Meeting 310 CMR 15.255(3)
- c.) Installation of the system with all components
- d.) When existing ground elevations are changed a finished ground elev. "asbuilt" shall be required prior to certificate of compliance being issued.

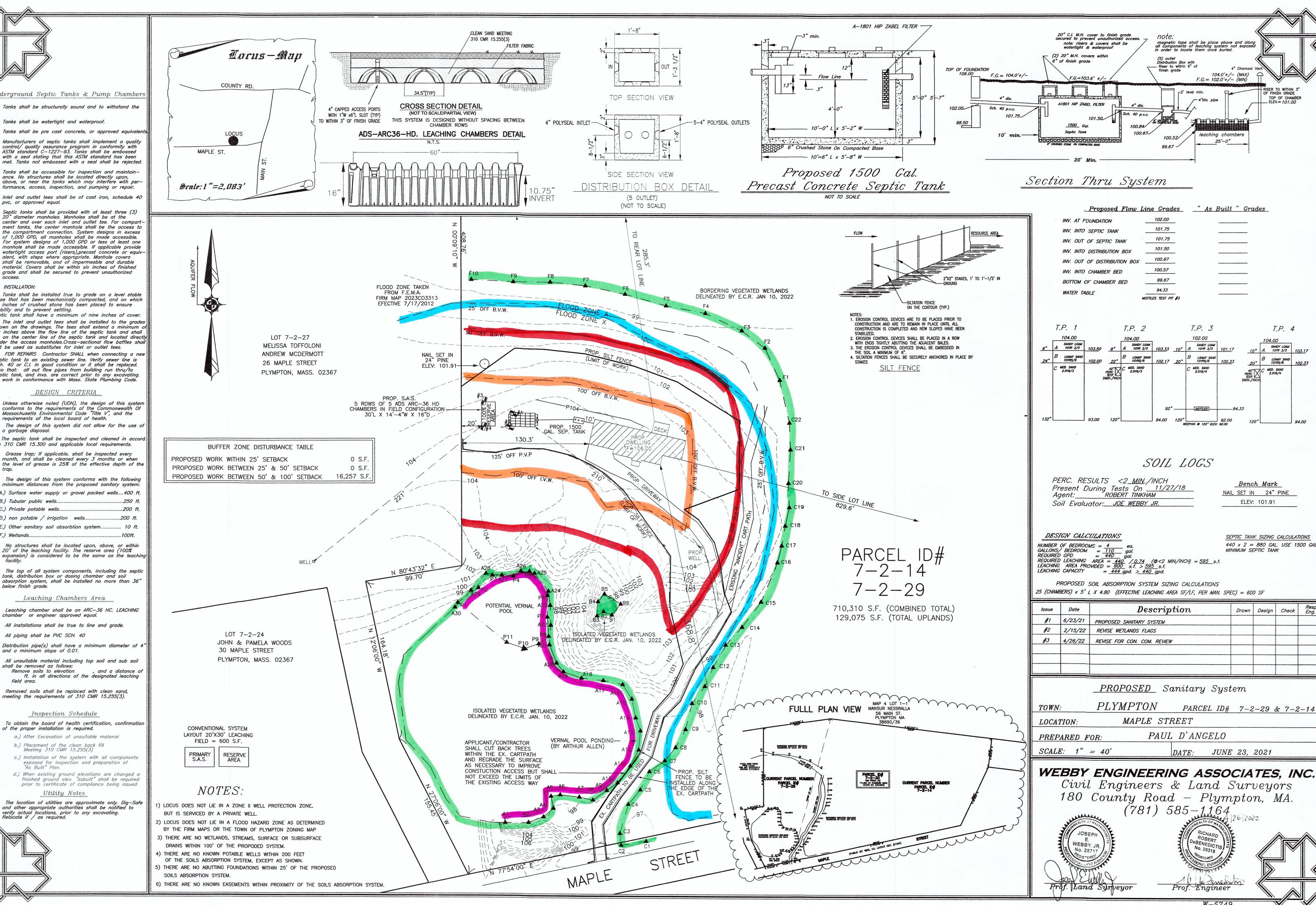
exposed for inspection and preparation of "As Built" Plan.

## Utility Notes

24.) The location of utilities are approximate only. Dig-Safe and other appropriate authorities shall be notified to verify actual locations, prior to any excavating.

Relocate if / as required.





(5) outlet
Distribution Box with

Riser to within 6" of
finish grade

102.00

101.75

101.75

101.50

100.67

100.57

99.67

94.33

MOTTLES TEST PIT #3

SOIL LOGS

Description

MAPLE STREET

PAUL D'ANGELO

(781) 585-1164

Prof. Engineer

T.P. 3

T.P. 2

104.0'+/- (MAX) F.G.= 102.0'+/- (MIN)

" As Built " Grades

T.P. 4

Bench Mark

NAIL SET IN 24" PINE

ELEV: 101.91

SEPTIC TANK SIZING CALCULATIONS 440 x 2 = 880 GAL. USE 1500 GAL. MINIMUM SEPTIC TANK

Drawn Design Check

PARCEL ID# 7-2-29 & 7-2-14

DATE: JUNE 23, 2021

SANDY LOAM 10YR 3/3 103.17