

**MAP NOTES**

- SUBJECT TO A SURVEY AND TO ANY STATEMENT OF FACTS THAT AN ACCURATE AND UP TO DATE TITLE SEARCH MAY REVEAL.
- NO UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS ARE INTENDED TO BE SHOWN HEREON, IF ANY EXIST.
- CONTOUR INFORMATION DEPICTED HEREON WAS PROVIDED BY DUTCHESS COUNTY GIS 2013 LIDAR MAPPING AND FIELD MEASUREMENTS. CONTOUR INTERVAL: 1 FT.
- THE PLANNING INFORMATION DEPICTED HEREON WAS TAKEN FROM AERIAL MAPPING PHOTOGRAPHS DATED 4-19-2006 AND FIELD SURVEY.
- HORIZONTAL DATUM REFERENCE - NEW YORK STATE PLANE EAST ZONE
- VERTICAL CONTROL REFERENCE - NAVD83
- 100 YEAR FLOOD ELEVATION = 8  
REFERENCE - FLOOD INSURANCE STUDY - TOWN OF HYDE PARK (COMMUNITY # 361338) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY 5/02/2012
- MAP REFERENCE**  
A) RIVERVIEW SUBDIVISION FM #4647A
- ZONING**  
LOT 1 IS IN THE LANDING ZONING DISTRICT
- BULK REGULATIONS**  
DEVELOPMENT DENSITY - NONE  
FRONT YARD - 10 FT. MIN.  
REAR YARD - 10 FT. MIN.  
IMPERVIOUS COVERAGE - 90 % MAX.

**DUTCHESS COUNTY HEALTH DEPARTMENT MAP NOTES**  
Standard Notes for Residential Projects (Onsite Sewage Disposal & Central Water)

The design, construction and installation shall be in accordance with this plan and generally accepted standards in effect at the time of construction which include:

Appendix 75-A, Waste Treatment - Individual Household Systems, New York State Sanitary Code; New York State Design Standards for Intermediate Sized Wastewater Treatment Systems; NYSDEC Residential Onsite Wastewater Treatment Systems, Design Handbook; New York State Department of Health. Recommended Standards for Water Works (Ten States).

Planning the Subdivision as Part of the Total Environment; New York State Department of Health.

New York State Department of Health and Dutchess County Environmental Health Services Division policies, procedures and standards.

Dutchess County and New York State Sanitary Codes.

Dutchess County Environmental Health Services Division Certificate of Approval letter.

This plan is approved as meeting the appropriate and applied technical standards, guidelines, policies and procedures for arrangement of sewage disposal and treatment and water supply facilities; and, as a condition of this approval, a construction inspection by a representative of the DC EHSI shall be done to determine that construction at the time of inspection was completed in general conformance with the approved plans and any amendment thereto.

Upon completion of the water system facilities, the finishes works shall be inspected, tested and certified complete to the DC EHSI by the New York State registered design professional supervising construction. No part of the facilities shall be placed into service until accepted by the DC EHSI.

Approval of any plan(s) or amendment thereto shall be valid for a period of 5 years from the date of approval. Following the expiration of said approval, the plan(s) shall be re-submitted to the Commissioner of Health for consideration for re-approval. Re-submission or revised submission of plans and/or associated documents shall be subject to compliance with the technical standards, guidelines, policies and procedures in effect at the time of the re-submission.

The DC EHSI shall be contacted prior to the commencement of the home construction and/or issuance of a building permit for a pre-construction inspection to ensure that the arrangements for water supply and sewage disposal are commensurate in accordance with the approved plans and amendments thereto and generally accepted standards.

All wells and onsite wastewater treatment systems, existing or approved, located within 300 feet of the existing wells and proposed onsite wastewater treatment system are shown on this plan along with any other environmental hazards in the area that may affect the design and functional ability of the onsite wastewater treatment system and well. If the tank is delivered to the site in sections, then it shall be demonstrated by the contractor to the DC EHSI field inspector and/or design professional that the tank is sealed, watertight and acceptable for use. This shall require, at a minimum, the filling of the tank with water to observe it is in fact sealed, watertight and acceptable for use. The tank must also meet any local testing requirements, including possible electrical and safety standards.

All proposed service lines on this plan are accessible for installation and placement.

No cellar, footing, floor, garage, cooler or roof drains shall be discharged into the onsite wastewater treatment system.

All buildings shall be constructed at an elevation high enough to ensure gravity flow to the onsite wastewater treatment system.

There shall be no vehicular traffic over the onsite wastewater treatment system. Prior to construction, the area of the system shall be staked out and fenced off.

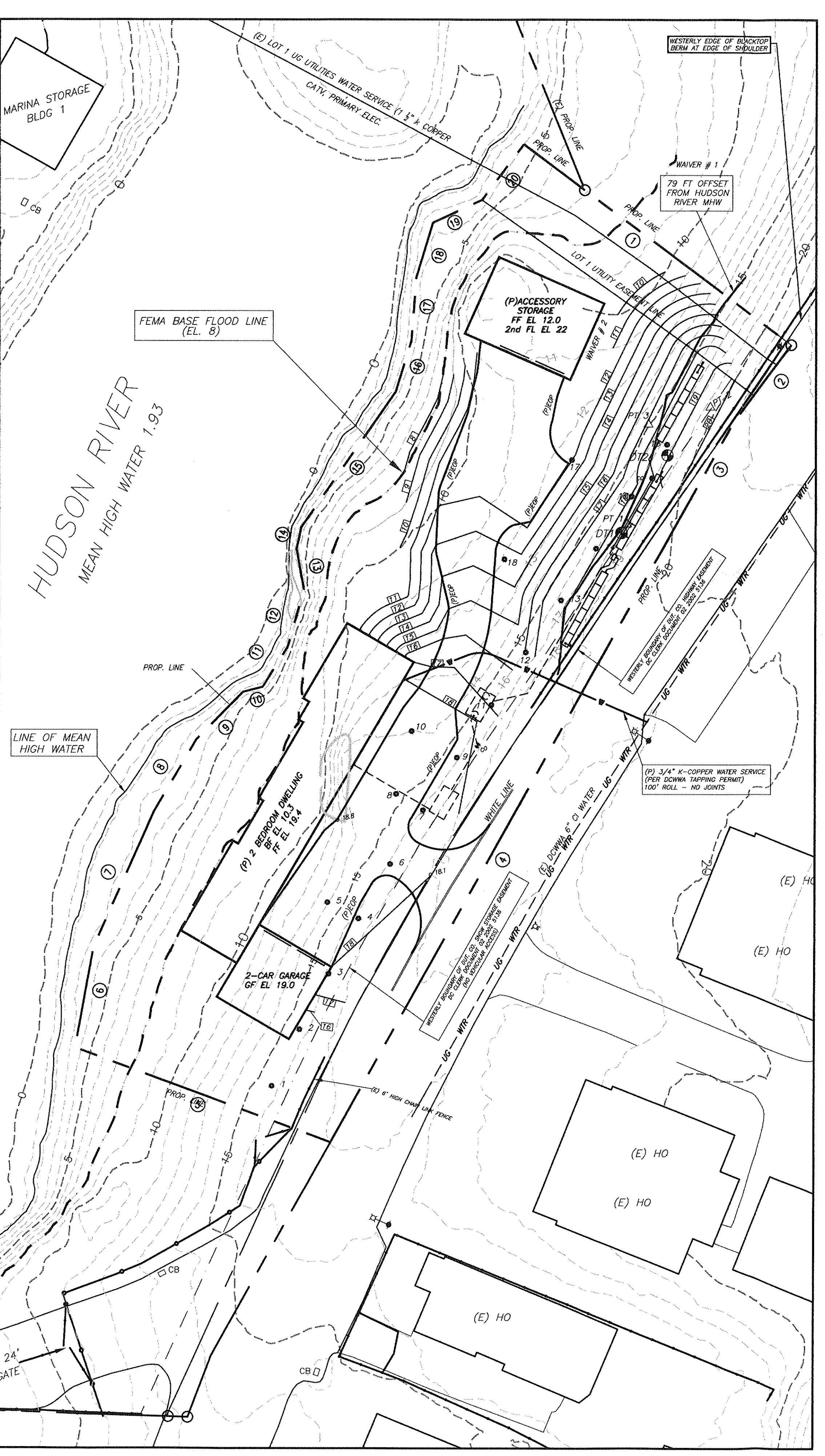
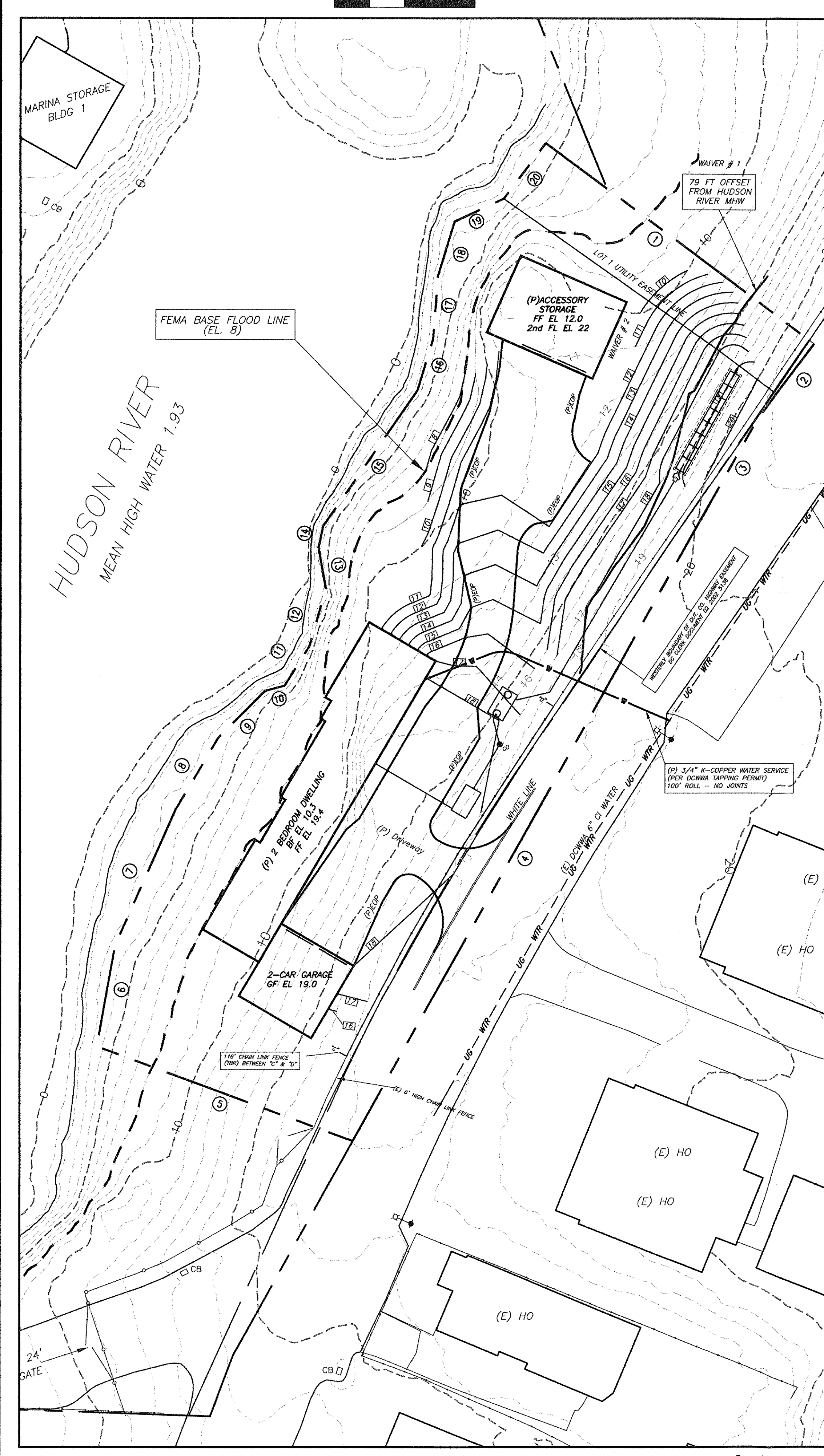
Onsite wastewater treatment systems shall not be installed in wet or frozen soil.

All required Erosion & Sediment Control and Stormwater Pollution Prevention Water Quality & Quantity Control structures, permanent and temporary, are shown on this plan.

All service lines are the responsibility of the homeowner up to the property line. The water company shall be responsible for all valves and pipes which are not on the homeowner's property.

**Additional Notes For Maps with Existing Houses with Onsite Wastewater Treatment Systems**

The existing onsite wastewater treatment system(s) and/or water supply(s) were installed prior to the date of this approval and therefore this approval shall not be construed to mean that the functional ability or adequacy of the existing onsite wastewater treatment system(s) and/or water supply(s), as shown on this plan, have been approved or accepted. Any construction of an onsite wastewater treatment system and/or water supply on an area of an existing lot(s) which is not existing at the time of this approval but was approved as part of this approval shall be inspected and approved by the DC EHSI prior to construction.



**ADDITIONAL DUTCHESS COUNTY HEALTH DEPARTMENT MAP NOTES**

The onsite wastewater treatment system is not designed to receive macerated wastewater from garbage grinders or internal sewage pumping stations.

The onsite wastewater treatment system is not designed to receive discharge from water softeners or other water treatment systems.

There shall be no bands in the raw sewer line.

All pipe penetrations and unused inlets/outlets in the distribution boxes or septic tanks should be sealed with non-shrink grout.

Objects and structures such as swimming pools, sheds or decks shall not be constructed above septic tanks, distribution boxes, or observation areas.

SDS AREA TO BE REGRADED UNDER SUPERVISION OF PROFESSIONAL ENGINEER TO MEET MAXIMUM 1% SLOPE. REFER TO SITE GRADING SHOWN ON PRIMARY AND EXPANSION SDS PLANS THIS DWG.

**PROPOSED SUBSURFACE SANITARY SEWAGE DISPOSAL SYSTEM DESIGN DETAILS**

**2-BEDROOMS**

1. BASIS OF DESIGN  
Building Type: Proposed RESIDENCE 2 Bedrooms (BDRM) TOTAL  
Design Flow Rate: 110 Gallons per Day (GPD) per Bedroom x 2 BDRM = 220 GPD  
Design Rate: 1-5 Minutes per Inch (MPI) - Application Rate=1.2 GPD/sf

2. SYSTEM REQUIREMENTS -

**PRIMARY SYSTEM**  
System Type: Absorption Trench - Eljen Geotextile Sand Filter (Type B)  
Distribution: Gravity  
Required Trench Area: 220 GPD/1.2 GPD/sf = 183.33 sf  
Eljen Type B GSF - 6 sq. ft. per LF of Lateral trench  
LF of Lateral Trench Required = 183.33/6 = 30.5 LF  
No. of 4' sections to be provided = 8 (32 LF)

**JOB EXPANSION SYSTEM**  
System Type: Absorption Trench - Infiltrator Systems QUICK4 EQUALIZER 36  
Distribution: GRAVITY  
Required Trench Area: 220 GPD/1.2 GPD/sf = 183.33 sf  
Infiltrator Trench reduction: 25%  
Net Required Trench Area = 0.75 x 183.33 = 137.5 sf  
LF of Infiltrator Required = 137.5 sf/2.5 LF/ft = 55.0 LF  
No. of 4' sections to be provided = 14 (56 LF)

**TEST DRILLING RESULTS SUMMARY**

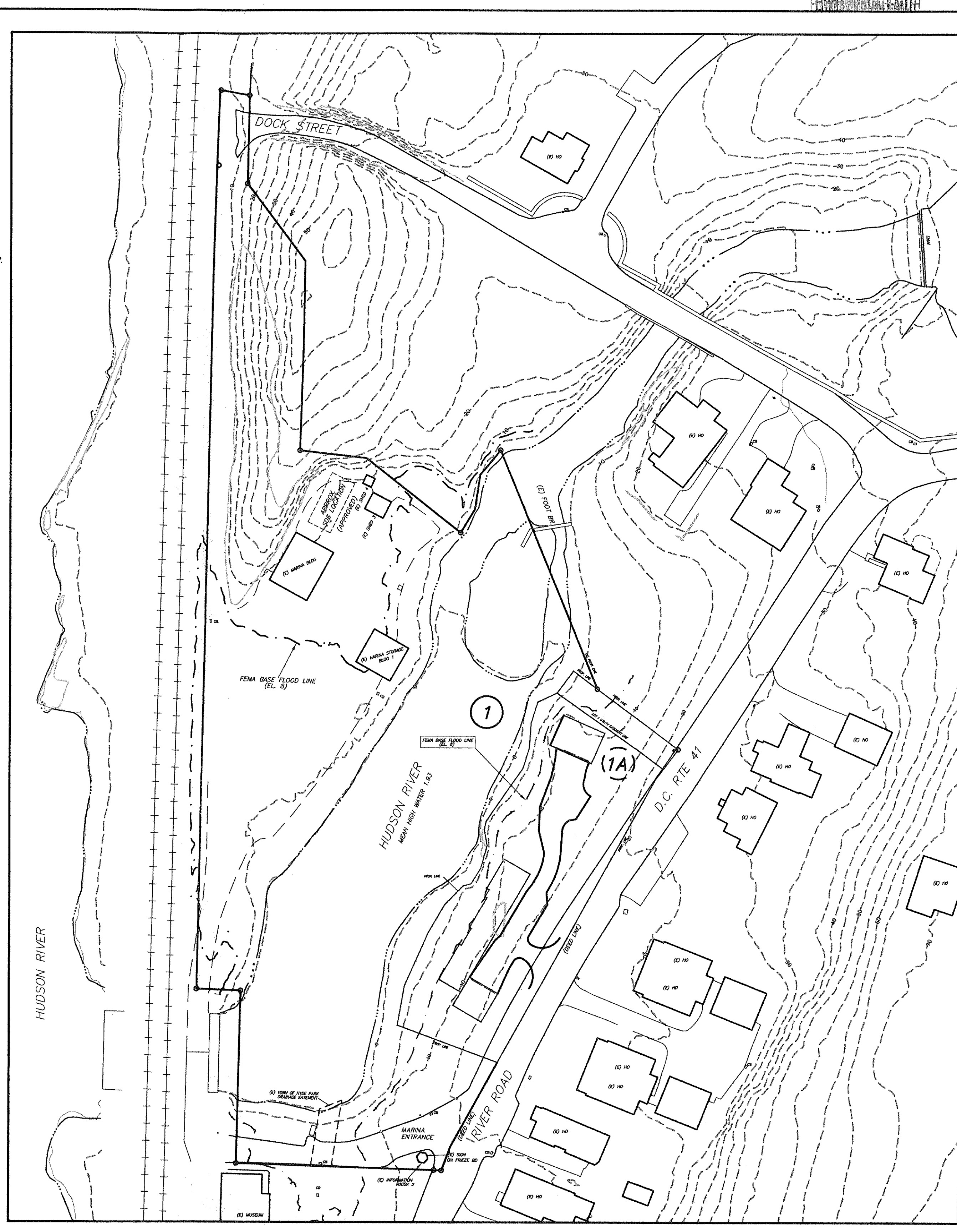
TEST HOLE NUMBER	INSPECTION DATE	GROUND ELEVATION	TOTAL DEPTH (FT)	WATER DEPTH (FT)	ROCK DEPTH (FT)	NOTING	SOILS INFORMATION
1	01-16-19	3.5	NE*	3.5	0.0-1.0	TOPSOIL	TOPSOIL
2	01-16-19	4.5	NE*	4.5	0.0-1.0	TOPSOIL	TOPSOIL
3	01-16-19	3.0	NE*	3.0	0.0-1.0	TOPSOIL	TOPSOIL
4	01-16-19	4.0	NE*	4.0	0.0-1.0	TOPSOIL	TOPSOIL
5	01-16-19	2.5	NE*	2.5	0.0-1.0	TOPSOIL	TOPSOIL
6	01-16-19	4.0	NE*	4.0	0.0-1.0	TOPSOIL	TOPSOIL
7	01-16-19	5.0	NE*	5.0	0.0-1.0	TOPSOIL	TOPSOIL
8	01-16-19	3.5	NE*	3.5	0.0-1.0	TOPSOIL	TOPSOIL
9	01-16-19	9	NE	NE	0.0-1.0	TOPSOIL	TOPSOIL
10	01-16-19	7.5	NE*	7.5	0.0-1.0	TOPSOIL	TOPSOIL
11	01-16-19	9.0	NE*	NE	0.0-1.0	TOPSOIL	TOPSOIL
12	01-16-19	9.0	NE	NE	0.0-1.0	TOPSOIL	TOPSOIL
13	01-16-19	9.0	NE*	NE	0.0-1.0	TOPSOIL	TOPSOIL
14	01-16-19	9.0	NE	NE	0.0-1.0	TOPSOIL	TOPSOIL
15	01-16-19	9.0	NE*	NE	0.0-1.0	TOPSOIL	TOPSOIL
16	01-16-19	9.0	NE	NE	0.0-1.0	TOPSOIL	TOPSOIL
17	01-16-19	9.0	NE*	NE	0.0-1.0	TOPSOIL	TOPSOIL
18	01-16-19	9.0	NE*	NE	0.0-1.0	TOPSOIL	TOPSOIL

\* NE - NOT ENCOUNTERED  
\*\* ONLY RED AND BLUE HOLES DID NOT PLUG WHEN DRILL ROD WAS ADVANCED, INDICATING GRANULAR SOIL.

**PRIMARY & EXPANSION UNITS ARRANGEMENT**

NOT TO SCALE

SEE ADDITIONAL DETAILS ON DWG S-2  
2 BEDROOM DESIGN TOTAL - MAXIMUM 220 GPD



**DEEP TEST RESULTS SUMMARY**

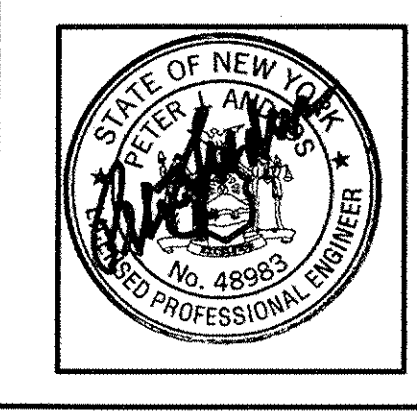
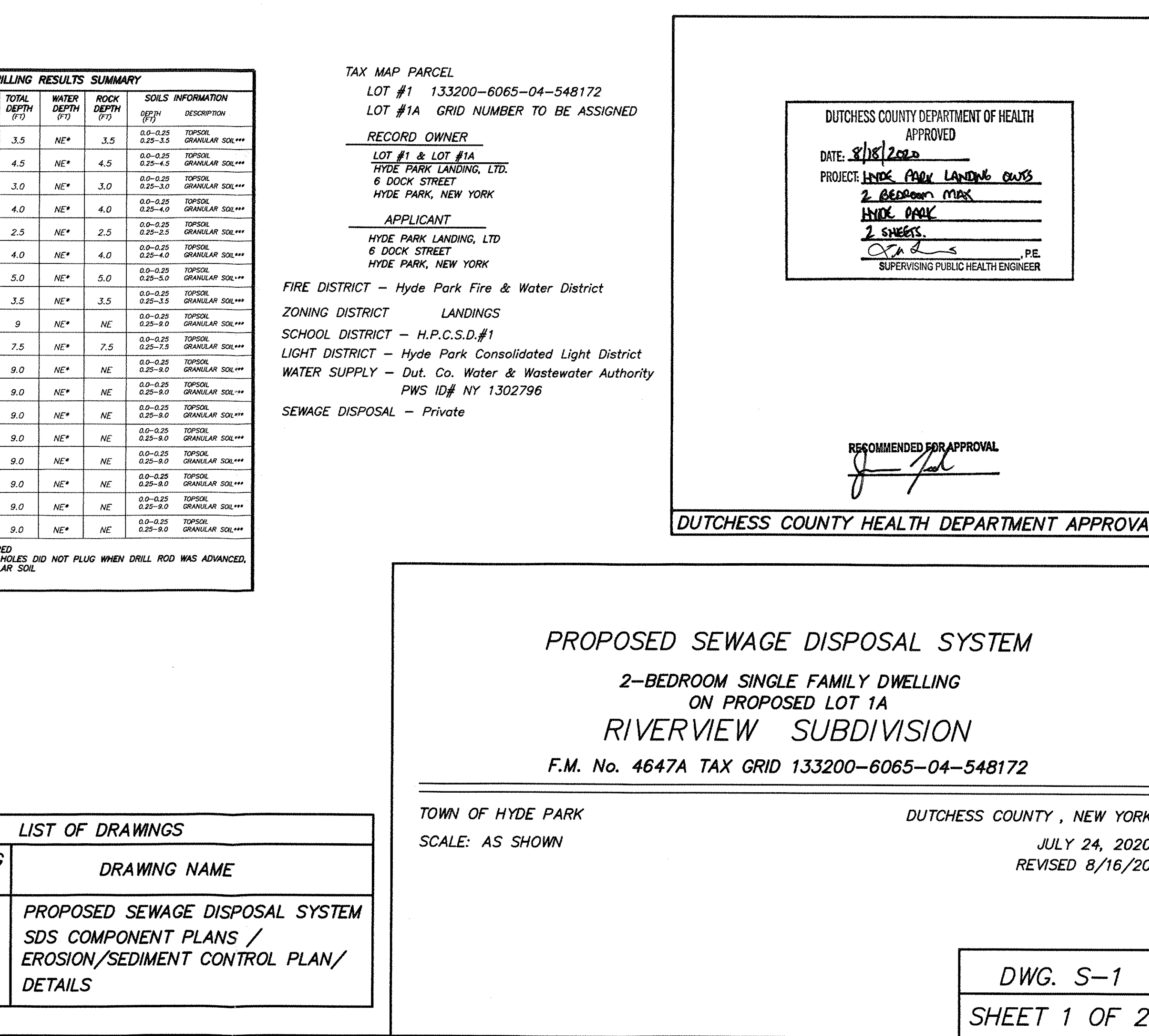
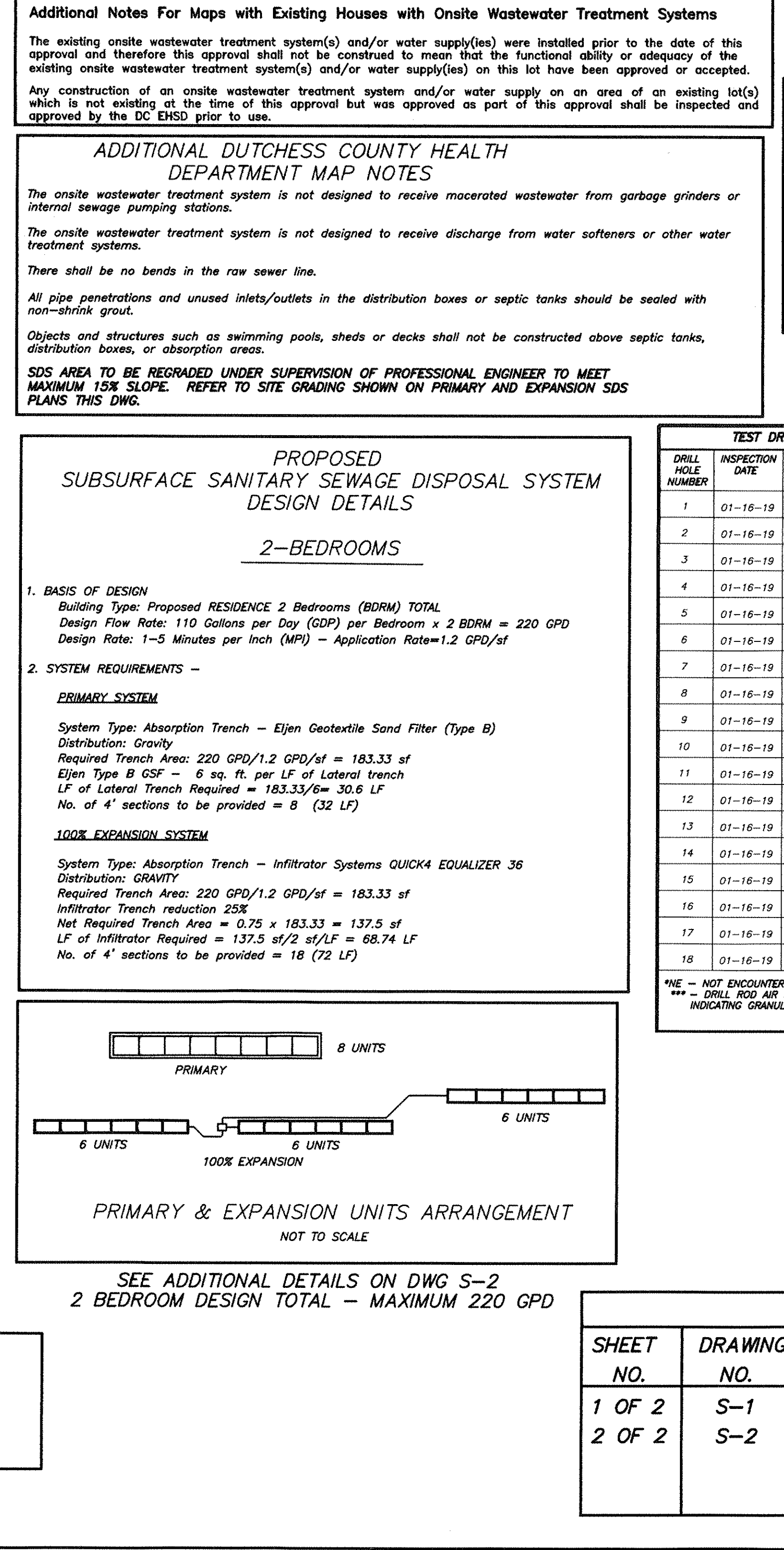
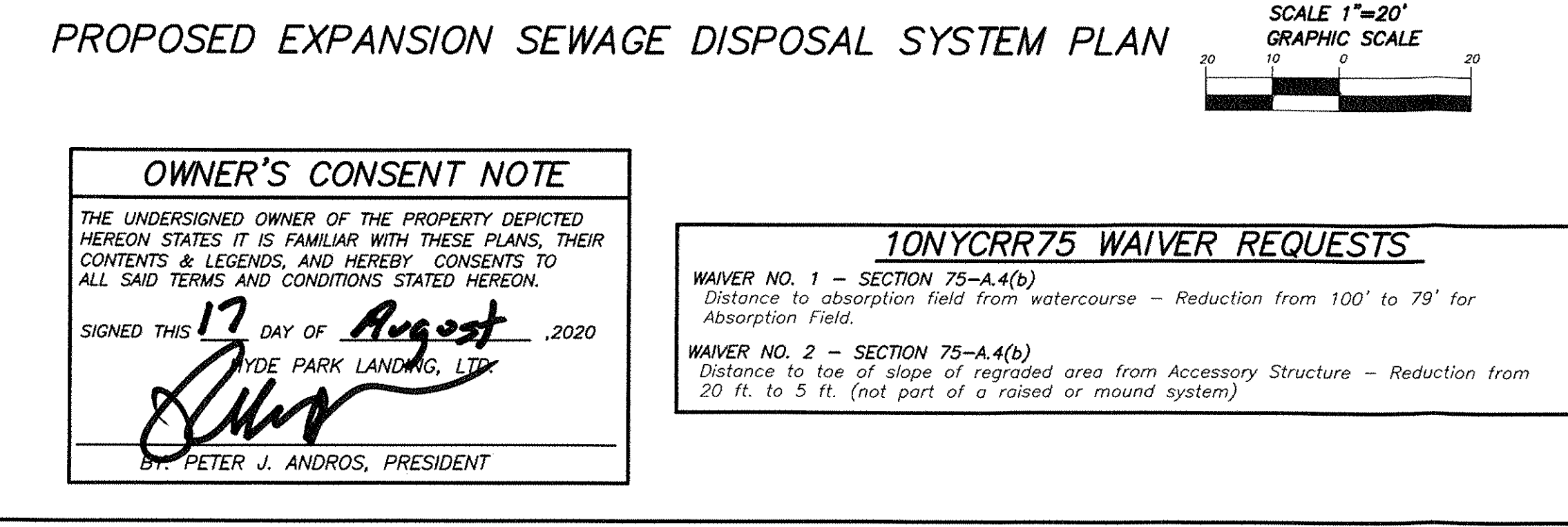
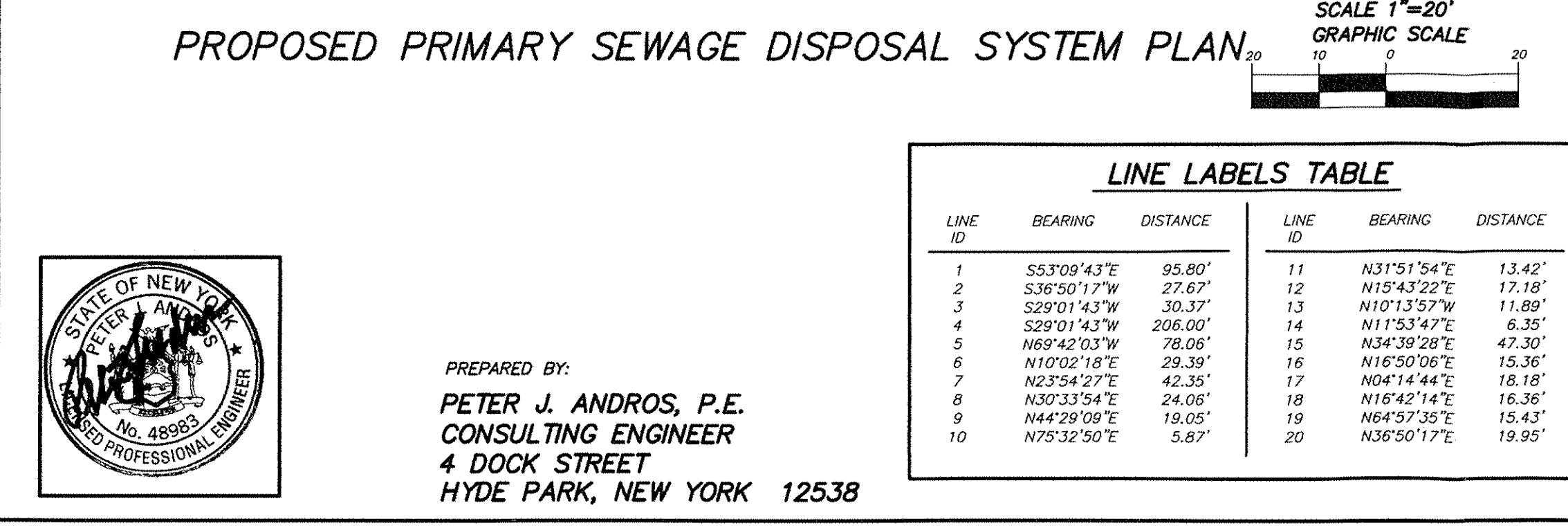
DEEP TEST HOLE NUMBER	INSPECTION DATE	GROUND ELEVATION	TOTAL DEPTH (FT)	WATER DEPTH (FT)	ROCK DEPTH (FT)	NOTING	SOILS INFORMATION
1	8-16-19	18.0	9*	NE**	NE**	NE**	TOPSOIL GRAVEL
2	8-16-19	18.0	9*	NE**	NE**	NE**	TOPSOIL GRAVEL

\* DEPTH MEASURED FROM GROUND EL. 18  
\*\* NE - NOT ENCOUNTERED

**PERCOLATION TEST RESULTS SUMMARY**

PERIC. TEST HOLE NUMBER	DATE	DEPTH (FT)	PERC. RATE (GPD/INCH)	TEST RUNS (MIN/INCH)	STABILIZED DESIGN TIME (MIN)
1	11-14-18	2.5	YES	2.00 2.00 2.00 2.00 2.00 2.00	3
2	11-14-18	2.5	YES	2.19 2.10 2.08 2.30 2.30 2.30	4
3	11-14-18	2.5	YES	2.00 2.00 2.00 2.00 2.00 2.00	4

\*\* IN ACCORDANCE WITH 4-7.2(3) OF NYSDOH DESIGN HANDBOOK, RESIDENTIAL ONSITE WASTEWATER TREATMENT SYSTEMS, CURRENT EDITION.





DWG. S-2  
SHEET 2 OF 2