



Prepared by:

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EXECUTIVE SUMMARY

This Engineering Plan has been prepared for Wastewater Management and Water Supply Systems for Scotts Corner, Pound Ridge, New York to address the needs for the Scotts Corner three (3) Planned Business Districts, which consists of 41 parcels. Figure ES-1 presents a Scotts Corner Location Map, with Figure ES-2 illustrating the Scotts Corner area and candidate wastewater treatment and disposal sites. The Scotts Corner wastewater and water supply difficulties/challenges have been documented by numerous engineering studies since 1992 and were summarized by the Scotts Corner Water / Wastewater Task Force, whose report is attached as Appendix A.

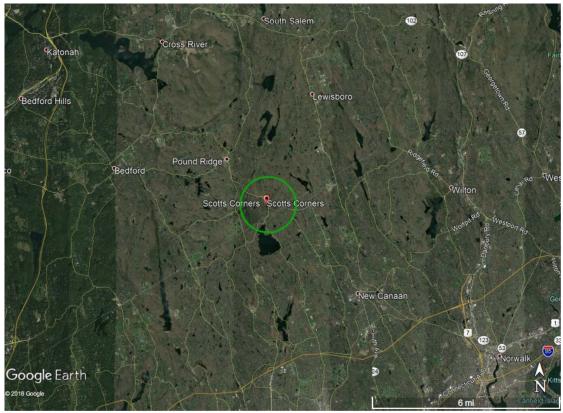


Figure ES-1 Scotts Corner Location Map

This Engineering Plan reviewed the previous studies and performed its own independent analysis and concluded that due to the small lot sizes and shallow depth to rock/groundwater, on-site solutions are not viable and off-site wastewater solutions are required. Small cluster solutions were examined and it was determined that insufficient land exists for small cluster solutions. Consequently, a Scotts Corner study area wide wastewater system is required.

Due to shallow depth to rock/groundwater in the study area, the septic tank – effluent collection system was selected due to its lower cost and overall wastewater system simplicity. As the project location is in a NYSDEC designated AA-S watershed, which is a source of potable water supply, wastewater disposal must be via subsurface disposal. Eight (8) candidate sites for a Scotts Corner wastewater treatment and disposal facility were identified and evaluated based upon existing information. The following four sites were identified as being the most technically promising and cost-effective for a Scotts Corner wastewater treatment and disposal facility.

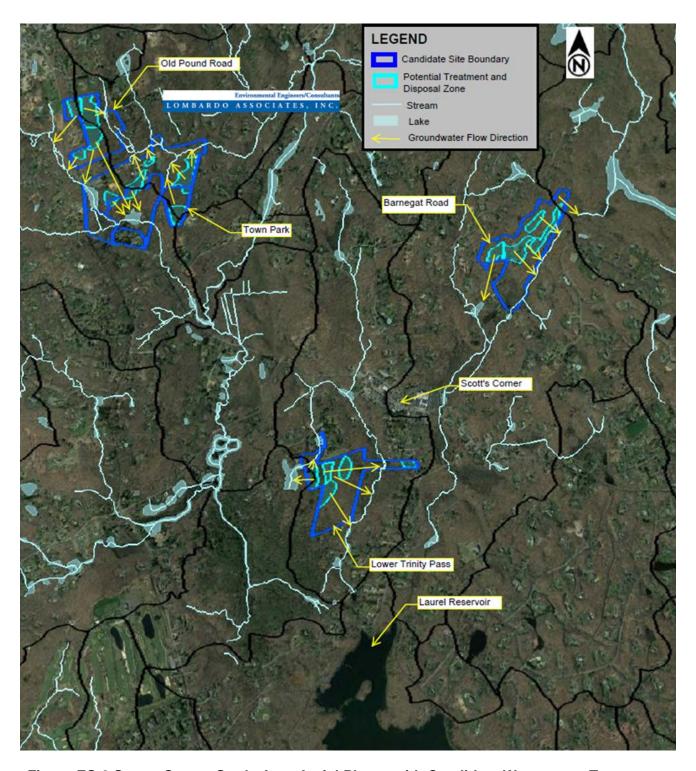


Figure ES-2 Scotts Corner Study Area Aerial Photo with Candidate Wastewater Treatment & Disposal Sites

- ✓ Pine Drive Lower Trinity Road
- ✓ Town Park
- ✓ Old Pound Road
- √ 169 Barnegat Road

As an order of magnitude estimate of the disposal capacity of each site, Darcy's law estimates were prepared and are presented on Table ES-1. For a variety of technical hydrogeologic reasons and data limitations, Darcy's Law estimates are insufficient for determining the disposal capacity of a site. Groundwater modeling, which is beyond the scope of this Report, needs to be performed to finalize a site's disposal capacity.

Candid	late Disposal Sites Su	mmary
Site #	Site Name	Flow - Darcy's (GPD)
1	Town Park	69,031
2	Old Pound Ridge Rd	42,897
3	Lower Trinity Pass	55,976
4	Barnegat Rd	18,007
5	Oceanus	29,428

Table ES-1 Darcy Law Estimates of Candidate Sites Disposal Capacity

Test pits and soil testing at the Barnegat and Lower Pound Ridge sites is scheduled to be completed in July 2019. Due to the relatively shallow soil mantle, groundwater modeling of disposal at the preferred site(s) is necessary to determine the site's capacity for final site selection.

Due to the environmentally sensitive potable water supply watershed in which the candidate sites are located and Class AA-S watersheds that the Study

Area is within, a tertiary wastewater treatment system with disinfection is proposed. The treatment and disposal/reuse system's process flow diagram is shown on Figure ES-3.

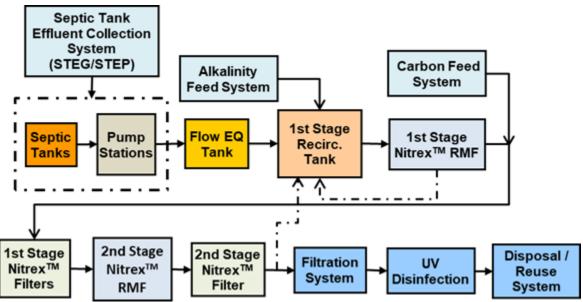


Figure ES-3 Scotts Corner Wastewater Treatment System Process Flow Diagram

The treatment process has been selected due to its demonstrated ability to reliably achieve Tertiary Treatment with Disinfection with low Operations and Maintenance (O&M) requirements. Wastewater treatment effluent quality requirements are proposed as follows:

pH 6.5 – 8.5 BOD/TSS < 10 mg/L Oil & Grease < 15 mg/L Total Nitrogen (TN) < 10 mg/L

Fecal Coliform Average < 24 & Maximum < 200 MPN / 100 ml Enterococcus Average < 24 & Maximum < 104 MPN / 100 ml

The treatment process has been approved in Suffolk County NY since 2011, has been permitted and was operational in Malibu CA for 10 years, and was approved by the CA Department of Public Health to achieve CA Title 22 Standards for Unrestricted Water Reuse for Non-Potable purposes.

WATER SUPPLY

The Scotts Corner water supply options are:

- ✓ Connection to Aquarion Water Company water supply system which has a Water Tank at the Pound Ridge Golf Course, and is the only location from which Aquarion can supply Scotts Corner.
- ✓ Scotts Corner Water Supply Treatment System According to the December 21, 1973 Agreement, Section 13) between the Town and Stamford Water Company (now Aquarion), the Town has "the right, privilege and priority to draw water from the Siscowit Reservoir.....For that limited purpose the Town shall be deemed to have a perpetual easement over the Water Company property to locate pump house, pipes and other equipment..."

Pending negotiations between Aquarion and the Town of Pound Ridge to tap into the Aquarion water supply system at / near the Water Tank, the proposed water supply system would be fed from the Aquarion water tank, then north along High Ridge Road to Upper Shad Road east to Westchester Avenue and then south to end at 21 Westchester Avenue. Table ES-2 presents water supply and wastewater system capital cost estimates.

Table ES-2 Wastewater & Water Supply Systems Capital Cost Estimates

Scotts Corner Water Supply & Wastewater System (Capital Costs
Wastewater Treatment & Disposal System	¢16 476 000
w/o Interceptor & site costs	\$16,476,000
Interceptor & Site Costs	\$2,068,750
Water Supply System	\$9,251,000
Contingency	\$4,000,000
Total Capital Cost	\$31,795,750

Table ES-3 presents projected user charges assuming various levels of funding and amortization of the local share for 30 years at 4%.

Legal / Financing

It is proposed that Water Supply and Wastewater Districts (individually or combined) would be established by the Town for the Study Area under Town Law Article 12. The Districts are proposed to be Enterprise Funds in which the users pay all costs and the District is a separate legal and financial entity. At this time the District does not exist and no financials exist.

Scotts Corner Wastewater Management & Water Supply Study JUNE 25, 2019 - FINAL

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Table ES-3 Wastewater & Water Supply Systems User Charge Estimates

			25-3 Wastewate			., -,			90 =01	matee					
Parcel #	Property Address	Tenant	Use	Final WW Design	Final Water Design Flow	# of	Flow Based Annual		Total Ca _l	oital Cost		Flow	-Based Ann	ual User Ch	narge
				Flow (gpd)	(gpd)	EDU's	O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	No Grants	25% Grant	50% Grant	75% Grant
9454-36	89 Westchester Ave	PR Ambulance Corps	community facility	130	65	0.43	\$734	\$66,496	\$49,872	\$33,248	\$16,624	\$4,580	\$3,620	\$2,660	\$1,690
9454-5	87 Westchester Ave	Avant Garden	retail	144	72	0.48	\$818	\$74,089	\$55,567	\$37,045	\$18,522	\$5,100	\$4,030	\$2,960	\$1,890
9454-6	85 Westchester Ave	North Star	restaurant	1750	875	5.83	\$9,917	\$897,898	\$673,423	\$448,949	\$224,474	\$61,840	\$48,870	\$35,880	\$22,890
9454-6	85 Westchester Ave	North Star	office	136	68	0.45	\$771	\$69,793	\$52,345	\$34,896	\$17,448	\$4,810	\$3,800	\$2,790	\$1,780
9454-7	83 Westchester Ave	Albano Appliance	retail	614	307	2.05	\$3,478	\$314,925	\$236,193	\$157,462	\$78,731	\$21,690	\$17,140	\$12,580	\$8,040
9454-7	83A,&B Westchester Ave	Above Albano Appliance	apartments	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9454-7	83C&D Westchester Ave	Albano Appliance	office	229	115	0.76	\$1,298	\$117,509	\$88,132	\$58,755	\$29,377	\$8,090	\$6,400	\$4,690	\$2,990
9454-8	79 Westchester Ave	Dynax	office	187	94	0.62	\$1,061	\$96,049	\$72,037	\$48,025	\$24,012	\$6,610	\$5,230	\$3,840	\$2,450
9454-9	77 Westchester Ave	Vacant	Vacant	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-9	77A Westchester Ave	Vacant	Vacant	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-35	NA	Parking	Parking	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-10	73 Westchester Ave	Healthy Home Foods	Retail / Food Prep	420	210	1.40	\$2,380	\$215,495	\$161,622	\$107,748	\$53,874	\$14,840	\$11,730	\$8,610	\$5,490
9454-10	73 Westchester Ave	Pound Ridge Dentistry	Medical Office	250	125	0.83	\$1,417	\$128,271	\$96,203	\$64,136	\$32,068	\$8,830	\$6,980	\$5,120	\$3,270
9454-11	71 Westchester Ave	Kitchen Table	restaurant	875	438	2.92	\$4,958	\$448,949	\$336,712	\$224,474	\$112,237	\$30,920	\$24,430	\$17,930	\$11,450
9454-11	71 Westchester Ave	Wine Store	retail	194	97	0.65	\$1,099	\$99,487	\$74,615	\$49,744	\$24,872	\$6,860	\$5,410	\$3,980	\$2,530
9454-11	69 Westchester Ave	La Familia	restaurant	1400	700	4.67	\$7,933	\$718,318	\$538,739	\$359,159	\$179,580	\$49,470	\$39,090	\$28,710	\$18,320
9454-11	69 Westchester Ave	Martin House	Office	307	154	1.02	\$1,740	\$157,581	\$118,186	\$78,791	\$39,395	\$10,850	\$8,570	\$6,300	\$4,010
9454-12	69 Westchester Ave	Summit Company	Office	307	154	1.02	\$1,740	\$157,581	\$118,186	\$78,791	\$39,395	\$10,850	\$8,570	\$6,300	\$4,010
9454-13	67 Westchester Ave	Above Retail	apartments	220	110	0.73	\$1,247	\$112,879	\$84,659	\$56,439	\$28,220	\$7,770	\$6,150	\$4,510	\$2,880
9454-13	67 Westchester Ave	The Cottage / Booksy	retail	282	141	0.94	\$1,596	\$144,485	\$108,363	\$72,242	\$36,121	\$9,950	\$7,860	\$5,770	\$3,690
9454-14	4 Trinity Pass Rd.	Vacant	Vacant	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-15	65A,B Westchester Ave	Kahlo	retail	117	59	0.39	\$665	\$60,210	\$45,158	\$30,105	\$15,053	\$4,150	\$3,280	\$2,400	\$1,540
9454-15	65A,B Westchester Ave	Above Kahlo	apartments	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9320-56	Westchester Ave	Parking	parking w/2 shed	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9320-58	80 Westchester Ave	Fire Department	community facility	708	354	2.36	\$4,010	\$363,059	\$272,294	\$181,529	\$90,765	\$25,010	\$19,750	\$14,510	\$9,260
9320-59	78 Westchester Ave	123 Dough	Food Prep	223	112	0.74	\$1,266	\$114,636	\$85,977	\$57,318	\$28,659	\$7,900	\$6,230	\$4,580	\$2,930
		5	Employees	60	30	0.20	\$340	\$30,785	\$23,089	\$15,393	\$7,696	\$2,120	\$1,670	\$1,230	\$780
9320-59	78 Westchester Ave	Miller's Landscape	office	74	37	0.25	\$422	\$38,212	\$28,659	\$19,106	\$9,553	\$2,630	\$2,070	\$1,530	\$980
9320-60	76 Westchester Ave	Dinardos	restaurant	2100	1,050	7.00	\$11,900	\$1,077,477	\$808,108	\$538,739	\$269,369	\$74,210	\$58,630	\$43,050	\$27,480
9320-60	76 Westchester Ave	Vacant	Vacant	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9320-60	76 Westchester Ave	above Dinardos	apartments	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9320-61	74 Westchester Ave	Blind Charlies	restaurant	1750	875	5.83	\$9,917	\$897,898	\$673,423	\$448,949	\$224,474	\$61,840	\$48,870	\$35,880	\$22,890
9320-61	74 Westchester Ave	Jacob Allen	Spa	200	100	0.67	\$1,133	\$102,617	\$76,963	\$51,308	\$25,654	\$7,060	\$5,580	\$4,110	\$2,620
9320-61	74 Westchester Ave	O'Donnell	Retail	199	100	0.66	\$1,129	\$102,232	\$76,674	\$51,116	\$25,558	\$7,040	\$5,560	\$4,080	\$2,610
9320-61	74 A,B,C,&D Westchester Ave	above Blind Charlies	apartments	660	330	2.20	\$3,740	\$338,636	\$253,977	\$169,318	\$84,659	\$23,320	\$18,430	\$13,530	\$8,630
9320-62	72 Westchester Ave	PR Dry Cleaners	retail	238	119	0.79	\$1,346	\$121,858	\$91,393	\$60,929	\$30,464	\$8,390	\$6,630	\$4,870	\$3,110
9320-62	72 Westchester Ave	Plum Plum's	Food Prep	119	59	0.40	\$673	\$60,929	\$45,697	\$30,464	\$15,232	\$4,200	\$3,310	\$2,430	\$1,550
			Employees	60	30	0.20	\$340	\$30,785	\$23,089	\$15,393	\$7,696	\$2,120	\$1,670	\$1,230	\$780
9320-62	72 Westchester Ave	Nephawa	retail	119	59	0.40	\$673	\$60,929	\$45,697	\$30,464	\$15,232	\$4,200	\$3,310	\$2,430	\$1,550
9320-62	72 A & B Westchester Ave	above PR Dry Cleaners	apartment	220	110	0.73	\$1,247	\$112,879	\$84,659	\$56,439	\$28,220	\$7,770	\$6,150	\$4,510	\$2,880
9320-63	70 Westchester Ave	above retail	apartments	220	110	0.73	\$1,247	\$112,879	\$84,659	\$56,439	\$28,220	\$7,770	\$6,150	\$4,510	\$2,880
9320-63	70 Westchester Ave	Barber	Barber	250	125	0.83	\$1,417	\$128,271	\$96,203	\$64,136	\$32,068	\$8,830	\$6,980	\$5,120	\$3,270
9320-63	70 Westchester Ave	P. Queens, Avalon Ins, Hedg., PR Home	retail / Office	103	51	0.34	\$583	\$52,827	\$39,620	\$26,414	\$13,207	\$3,640	\$2,880	\$2,110	\$1,340

Table ES-3, Continued

Parcel #	Property Address	Tenant	Use	Final WW Design	Final Water Design Flow	# of	Flow Based Annual		Total Cap	oital Cost	Flow	-Based Ann	ual User Ch	arge	
r arcer #	Troporty Address	Tonani	565	Flow (gpd)	(gpd)	EDU's	O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	No Grants	25% Grant	50% Grant	75% Grant
9320-64	68 Westchester Ave	Chubby's	retail	346	173	1.15	\$1,962	\$177,604	\$133,203	\$88,802	\$44,401	\$12,240	\$9,670	\$7,100	\$4,530
9320-64	68 A,B,C,&D Westchester Ave	above Chubby's	apartments	660	330	2.20	\$3,740	\$338,636	\$253,977	\$169,318	\$84,659	\$23,320	\$18,430	\$13,530	\$8,630
9320-65	66 Westchester Ave	gas station	auto repair	800	400	2.67	\$4,533	\$410,468	\$307,851	\$205,234	\$102,617	\$28,270	\$22,340	\$16,400	\$10,460
9455-18.9	26 Lower Trinity Pass	Joiquim Felice	Home	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9455-20	32 Westchester Ave	Wine Connection	retail	444	222	1.48	\$2,517	\$227,861	\$170,896	\$113,930	\$56,965	\$15,700	\$12,400	\$9,100	\$5,810
9455-20	32 Westchester Ave	Above Wine Connection	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-21	34 Westchester Ave	above Antique	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-21	34 Westchester Ave	Antique	retail	196	98	0.65	\$1,113	\$100,795	\$75,597	\$50,398	\$25,199	\$6,940	\$5,480	\$4,020	\$2,580
9455-27	38 Westchester Ave	Future Value Assoc	office	176	88	0.59	\$997	\$90,303	\$67,727	\$45,151	\$22,576	\$6,220	\$4,910	\$3,610	\$2,300
9455-28	40, 40A Westchester Ave	Wittus	retail	270	135	0.90	\$1,530	\$138,533	\$103,900	\$69,266	\$34,633	\$9,540	\$7,540	\$5,540	\$3,540
9455-28	40, 40A Westchester Ave	Helen Famulare Spa	Spa	400	200	1.33	\$2,267	\$205,234	\$153,925	\$102,617	\$51,308	\$14,140	\$11,170	\$8,200	\$5,230
9455-28	40, 40A Westchester Ave	Private	apartment	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9455-26	46 Westchester Ave	Roeco	office	184	92	0.61	\$1,041	\$94,252	\$70,689	\$47,126	\$23,563	\$6,490	\$5,130	\$3,760	\$2,410
9455-25	54 Westchester Ave	Asia Hamachi	restaurant	875	438	2.92	\$4,958	\$448,949	\$336,712	\$224,474	\$112,237	\$30,920	\$24,430	\$17,930	\$11,450
9455-25	54 Westchester Ave	Dragon Martial Arts	Health Club	300	150	1.00	\$1,700	\$153,925	\$115,444	\$76,963	\$38,481	\$10,610	\$8,370	\$6,150	\$3,920
9455-25	54 Westchester Ave	Curry & Hovis	retail	120	60	0.40	\$680	\$61,570	\$46,178	\$30,785	\$15,393	\$4,240	\$3,350	\$2,460	\$1,570
9455-25	54 Westchester Ave	above Curry & Hovis	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-24	56, 60 Westchester Ave	above retail	apartments	770	385	2.57	\$4,363	\$395,075	\$296,306	\$197,537	\$98,769	\$27,210	\$21,500	\$15,790	\$10,080
9455-24	56, 60 Westchester Ave	Key Bank, Toy Store	retail / Office	779	390	2.60	\$4,415	\$399,744	\$299,808	\$199,872	\$99,936	\$27,530	\$21,760	\$15,970	\$10,190
9456-4	39 Westchester Ave	private	residential	660	330	2.20	\$3,740	\$338,636	\$253,977	\$169,318	\$84,659	\$23,320	\$18,430	\$13,530	\$8,630
9456-1.9	55, 57 Westchester Ave	Market, post office, 5 Retail Stores, Office	retail / office	5414	2,707	18.05	\$30,679	\$2,777,787	\$2,083,341	\$1,388,894	\$694,447	\$191,310	\$151,160	\$111,000	\$70,840
9455-10	22, 24 Westchester Ave	PR Organics	Retail	478	239	1.59	\$2,709	\$245,306	\$183,979	\$122,653	\$61,326	\$16,890	\$13,350	\$9,800	\$6,250
9455-13	26 Westchester Ave	Above Educators Alley	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-13	26 Westchester Ave	Qualities	retail	55	27	0.18	\$311	\$28,181	\$21,136	\$14,091	\$7,045	\$1,940	\$1,530	\$1,130	\$720
9455-13	26 Westchester Ave	Educators Alley	office	110	55	0.37	\$622	\$56,362	\$42,272	\$28,181	\$14,091	\$3,890	\$3,060	\$2,250	\$1,430
9455-14	30 Westchester Ave	private	residential	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9456-8	21 Westchester Ave	private	residential	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9456-7	23,23A,B Westchester Ave	Kende & London Joiner	retail	306	153	1.02	\$1,735	\$157,106	\$117,830	\$78,553	\$39,277	\$10,830	\$8,550	\$6,280	\$4,010
9456-6	27 Westchester Ave	above Lion Heart	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9456-6	27 Westchester Ave	Di Biase Filkoff Architects	Office	152	76	0.51	\$860	\$77,886	\$58,415	\$38,943	\$19,472	\$5,370	\$4,240	\$3,110	\$1,980
9456-5	29 Westchester Ave	A Home	residential	1760	880	5.87	\$9,973	\$903,029	\$677,271	\$451,514	\$225,757	\$62,200	\$49,140	\$36,080	\$23,030
9456-55	35 Westchester Ave	PR Vet Center	retail	214	107	0.71	\$1,215	\$110,045	\$82,534	\$55,023	\$27,511	\$7,580	\$5,980	\$4,390	\$2,810
7.22.33	IN-FILL			6365	3,183	21.22	\$36,071	\$3,265,989	\$2,449,492	\$1.632.994	\$816.497	\$224,940	\$177,720	\$130.510	\$83,290
	PM&G		CURRY & HOVIS	20000	10,000	66.67	\$113,333	\$10,261,688	1 / -/ -	\$5,130,844	\$2,565,422	\$706,760	\$558,410	\$410,050	\$261,690
	SCOTT'S CORNER MARKET		Market & Post Office	20000	10,000	66.67	\$113,333		\$7,696,266	\$5,130,844	\$2,565,422	\$706,760	\$558,410	\$410,050	\$261,690
ļ				80,000	40,000	267	_	, ,	• • •	\$20,523,375				•	

Implementation Schedule

Figure ES-4 presents the project's proposed Implementation Schedule.

Tent	cative Schedule for Sc	ott	's	Со	rne	er	Ne	ar	Te	rm	ı S	yst	en	n A	cti	ivit	ies	5							DR	AF	ΓΑ	S (OF	M	ау	16	, 2	01	9
	Activity		Jur	-19)		Jul	-19)		Au	g-1	9		Sej	p-19)		Oct	t-19	1	۷o۱	/-19)	Dec	:-19)								
1	Site Testing/Modeling																																		
2	Aquarion Agreement																																		
3	Site Selection																																		
4	District Formation																																		

		1	Гen	tat	ive	Sc	hec	luk	e fo	or S	cot	t's	Coı	rne	r Lo	ong	Те	rm	Sys	ten	n A	ctiv	/itie	es				DF	RAF	T AS	s o	FΝ	lay	16	20	19									
	Activity					20	20									20	21					•			202	2						20	23				2024								
	Activity																								 																				
5	Design & Permitting																																												
6	Bid Period																																												
7	Construction																																												
8	Start-Up																																												

Figure ES-4 Scotts Corner Wastewater + Water Supply Implementation Schedule

Acknowledgements

The valuable support of the Town Board, its staff and Water-Wastewater Task Force members is greatly appreciated.

Town Board

Kevin Hansan, Supervisor Daniel S. Paschkes Jody Sullivan David Dow Diane Briggs

Pound Ridge Water-Wastewater Task Force

Ellen Ivens, Co-chair Alison Boak, Deputy Supervisor & Co-chair Jim Perry Jim Best Stacy French **David Dow** Peter Marchetti **Paul Sears** Peter Vogel Mark Mosolino Tom Smith Kevin Hansan, Supervisor Sherene DePalma

ENGINEERING REPORT CERTIFICATION

During the preparation of this Engineering Report, I have studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project or activity for which assistance is being sought from the New York State Clean Water State Revolving Fund. In my professional opinion, I have recommended for selection, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account the cost of constructing the project or activity, the cost of operating and maintaining the project or activity over the life of the project or activity, and the cost of replacing the project and activity.

This Engineering Report has been prepared in accordance with the NYSDEC New York State Design Standards for Intermediate Sized Wastewater Treatment Systems dated March 5, 2014 https://www.dec.ny.gov/docs/water_pdf/2014designstd.pdf

Title of Engineering Report:

Scotts Corner, Pound Ridge, NY Wastewater and

Water Supply Engineering Report

Date of Report: June 25, 2019

Professional Engineer's Name: Pio S. Lombardo, P.E., NYS PE # 056900

Signature:

Date: June 25, 2019



1. PROJECT OBJECTIVES & STUDY AREA CONDITIONS

1.1 Project Objectives

Per the December 29, 2018 Agreement between the Town of Pound Ridge (Town), NY and Lombardo Associates, Inc. (LAI), LAI is to prepare a Scotts Corner, Pound Ridge, NY Wastewater Management & Water Supply Study (Study) that consists of the following Tasks:

Task No.	<u>Description</u>
1	Assess Flow Requirements for a Wastewater Disposal System
2	Identify Possible Location(s) for Wastewater Disposal
3	Preliminary Design(s) for a Comprehensive Wastewater Solution
4	Preliminary Design for Comprehensive Water Supply
5	Meetings
6	Final Report
7	Preliminary Financing Plan, User Charges & Implementation Plan

The primary objectives of the engineering efforts associated with the Study are:

- ✓ Prepare an Engineering Plan that would comply with NY State DEC Water Quality Improvement Program (WQIP) grant requirements by July 20, 2019
- ✓ Prepare a Preliminary Engineering Plan that would be the basis for preparation of the Map and Plan that would be required associated with the Town establishing Wastewater Management and Water Supply Management Districts.

1.2 STUDY AREA - CENSUS

Scotts Corner is the project study area and the main commercial area of Pound Ridge with three (3) planned business zones of PB-A, PB-B and PB-C, Figures 1-1 through 1-3. The Scotts Corners business districts encompass approximately 40 acres and 40 properties across blocks 9454, 9455, 9456, 9320, 9820, and 9816. Table 1-1 presents a list of District properties and their current use.

Water supply and wastewater management difficulties/challenges have existed since 1990s as documented in the December 2017 Scotts Corner Water Wastewater Task Force Existing Conditions Report (TF Report). That Report concluded:

- ➤ Wastewater Management. Due to lot sizes, site conditions, wastewater systems/practices and use of individual water supply wells, a long-term, sustainable Scotts Corner wide wastewater management system is needed for current and Town zoning allowed property uses. Also, the current configuration of individual wells and septic systems do not meet regulatory separation requirements. As Scotts Corner is in the Stamford, CT water supply watershed, treatment/disposal systems will need to address that environmental sensitivity. All wastewater discharges have to be subsurface disposal systems (SSDS).
- ➤ Water Supply. Due to legacy MTBE groundwater contamination and new wells requiring extensive water filtration systems, a Scotts Corner public water supply system is also needed. The TF noted that a 1973 contract between the Stamford Water Company and Pound Ridge for the construction of the Siscowit or other Reservoir to provide water to Scotts Corner.

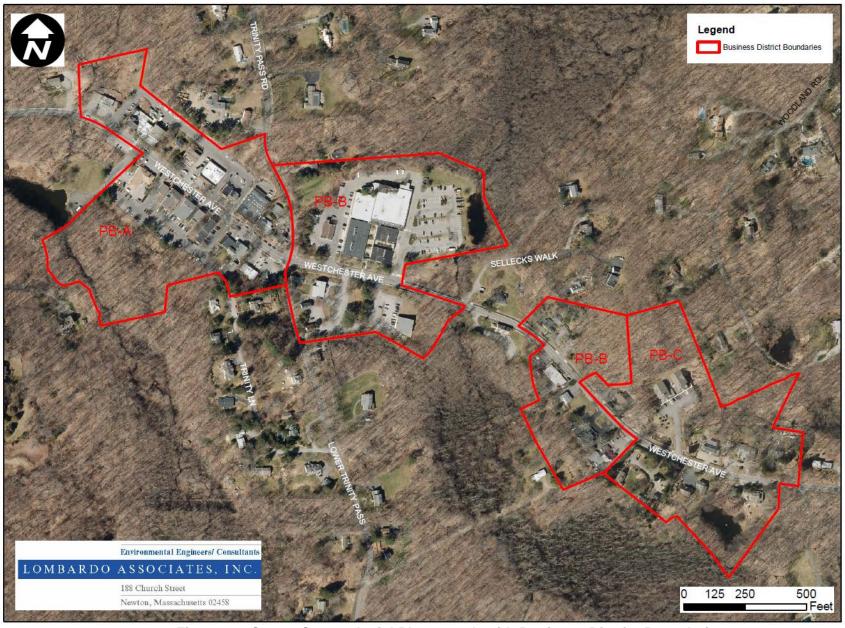


Figure 1-1 Scotts Corner Aerial Photograph with Business District Boundaries

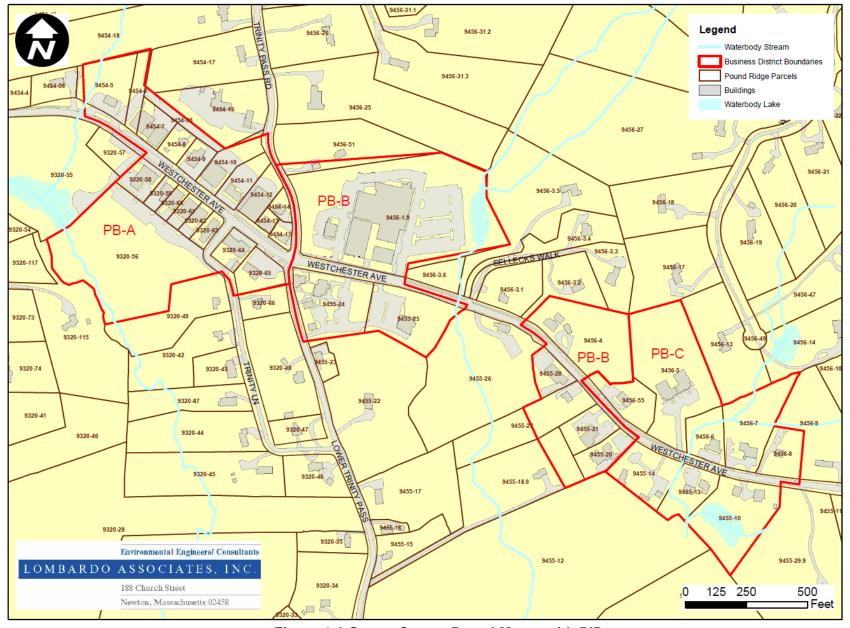


Figure 1-2 Scotts Corner Parcel Map – with PID

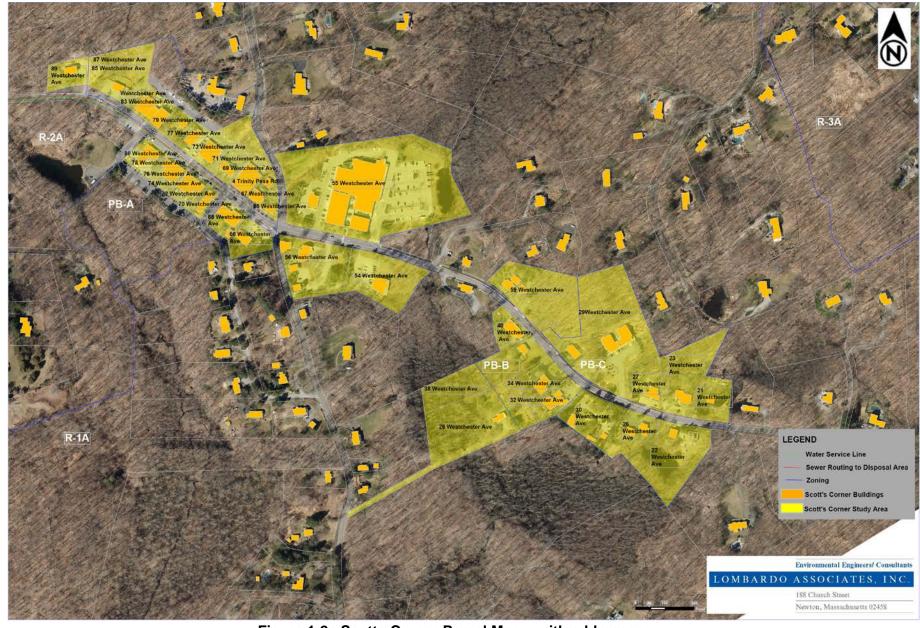


Figure 1-2a Scotts Corner Parcel Map – with addresses



Figure 1-3 Streams and Water Bodies in Scotts Corner

Table 1-1 Scotts Corner Property Data & Wastewater Design Flow

Property Address	Tenant	Use	Acreage	Building Square Footage	Use Quantity	Use Unit	Usage Rate (gpd/unit)	WW Design Flow (gpd)	Project Flow
89 Westchester Ave	PR Ambulance Corps	community facility	0.530	1,296	1,296	sq. ft.	0.1	129.6	129.6
87 Westchester Ave	Avant Garden	retail	1.131	1,444	1,444	sq. ft.	0.1	144.4	144.4
85 Westchester Ave	North Star	restaurant	0.415	4,122	50	seats	35.0	1,750.0	1 000 0
85 Westchester Ave	North Star	office	0.473		1,360	sq. ft.	0.1	136.0	1,886.0
83 Westchester Ave	Albano Appliance	retail	0.473	9,161	6,138	sq. ft.	0.1	613.8	
83, A, & B Westchester Ave	Albano Appliance	apartments			4	bedrooms	110.0	440.0	1,282.8
83 C & D Westchester Ave	Albano Appliance	office			2,290	sq. ft.	0.1	229.0	
79 Westchester Ave	Dynax	office	0.345	1,872	1,872	sq. ft.	0.1	187.2	187.2
77 Westchester Ave	Vacant	Vacant	0.342	4,864	0	toilets	400.0	0.0	
77A Westchester Ave	Vacant	Vacant			0	bedrooms	110.0		0.0
NA	Parking	Parking	0.356	0	0	1	0.0	0.0	0.0
73 Westchester Ave	Healthy Home Foods	Retail / Food Prep	0.670	5,600	4,200	sq. ft.	0.1	420.0	
73 Westchester Ave	Pound Ridge Dentistry	Medical Office		-,	1	Chairs	250.0	250.0	670.0
71 Westchester Ave	Kitchen Table	restaurant	0.631	3,878	25	seats	35.0	875.0	
71 Westchester Ave	Wine Store	retail	5.551	5,575	1,939	sq. ft.	0.1	193.9	1,068.9
69 Westchester Ave	La Familia	restaurant	0.493	12,285	40	seats	35.0	1,400.0	
69 Westchester Ave	Martin House	Office	0.433	12,203	3,071	sq. ft.	0.1	307.1	2,014.3
69 Westchester Ave	Summit Company	Office			3,071	sq. ft.	0.1	307.1	2,014.3
67 Westchester Ave	Above Retail	apartments	0.147	3,368	2	bedrooms	110.0	220.0	
67 Westchester Ave	The Cottage / Booksy	retail	0.147	3,300	2,816	sq. ft.	0.1	281.6	501.6
4 Trinity Pass Rd.	Vacant	Vacant	0.181	1,012	0		0.1	0.0	0.0
•	Kahlo				-	sq. ft.			0.0
65A,B Westchester Ave		retail	0.185	65	1,174	sq. ft.	0.1	117.4	557.4
65A,B Westchester Ave	Above Kahlo	apartments	0.185	0	4	bedrooms	110.0	440.0	0.0
Westchester Ave	Parking	parking w/2 shed	5.084	0	0	NA	0.0	0.0	0.0
80 Westchester Ave	Fire Department	community facility	0.449	7,076	7,076	sq. ft.	0.1	707.6	707.6
78 Westchester Ave	123 Dough	Food Prep	0.207	2,979	2,234	sq. ft.	0.1	223.4	357.9
70.14	5 A'11 1 1	Employees			4	employees	15.0	60.0	
78 Westchester Ave	Miller's Landscape	office	0.007	0.010	745	sq. ft.	0.1	74.5	
76 Westchester Ave	Dinardos	restaurant	0.207	8,910	60	seats	35.0	2,100.0	0.540.0
76 Westchester Ave	Vacant	Vacant			0	sq. ft.	0.1	0.0	2,540.0
76 Westchester Ave	above Dinardos	apartments			4	bedrooms	110.0	440.0	
74 Westchester Ave	Blind Charlies	restaurant	0.207	7,970	50	seats	35.0	1,750.0	
74 Westchester Ave	Jacob Allen	Spa			10	Member	20.0	200.0	2,809.3
74 Westchester Ave	O'Donnell	Retail			1,993	sq. ft.	0.1	199.3	,
. , ,	above Blind Charlies	apartments			6	bedrooms	110.0	660.0	
72 Westchester Ave	PR Dry Cleaners	retail	0.207	4,750	2,375	sq. ft.	0.1	237.5	
72 Westchester Ave	Plum Plum's	Food Prep			1,188 4	sq. ft. employees	0.1 15.0	118.8 60.0	755.0
72 Westchester Ave	Nephawa	retail			1,188	sq. ft.	0.1	118.8	
72 A & B Westchester Ave	above PR Dry Cleaners	apartment			2	bedrooms	110.0	220.0	
70 Westchester Ave	above retail	apartments	0.207	3,120	2	bedrooms	110.0	220.0	
70 Westchester Ave	Barber	Barber			1	Chair	250.0	250.0	F73.0
70 Westchester Ave	P. Queens, Avalon Ins, Hedg., PR Home	retail / Office			1,030	sq. ft.	0.1	103.0	573.0
68 Westchester Ave	Chubby's	retail	0.418	6,923	3,462	sq. ft.	0.1	346.2	
68 A, B, C, & D Westchester Ave	above Chubby's	apartments		-,,,	6	bedrooms	110.0	660.0	1,006.2
66 Westchester Ave	gas station	auto repair	0.642	2,130	2	toilets	400.0	800.0	800.0
	10	PB-A Subtotal	14.185	92,825	NA	NA	NA	17,991	

Table 1-1, Continued

Property Address	Tenant	Use	Acreage	Building Square Footage	Use Quantity	Use Unit	Usage Rate (gpd/unit)	WW Design Flow (gpd)	Project Flow
26 Lower Trinity Pass	Joiquim Felice	Home	0.615	n/a	4	bedrooms	110.0	440	440.0
32 Westchester Ave	Wine Connection	retail	0.656	3,800	4,441	sq. ft.	0.1	444	554.1
32 Westchester Ave	Above Wine Connection	apartments		641	1	bedrooms	110.0	110	554.1
34 Westchester Ave	above Antique	apartments	0.652	3,929	1	bedrooms	110.0	110	306.5
34 Westchester Ave	Antique	retail			1,965	sq. ft.	0.1	196	
38 Westchester Ave	Future Value Assoc	office	0.717	1,760	1,760	sq. ft.	0.1	176	176.0
40, 40A Westchester Ave	Wittus	retail	0.495	3,870	2,700	sq. ft.	0.1	270	
40, 40A Westchester Ave	Helen Famulare Spa	Spa			20	Member	20.0	400	1,110.0
40, 40A Westchester Ave	Private	apartment			4	bedrooms	110.0	440	
46 Westchester Ave	Roeco	office	4.589	1,837	1,837	sq. ft.	0.1	184	183.7
54 Westchester Ave	Asia Hamachi	restaurant	1.632	5,355	25	seats	35.0	875	
54 Westchester Ave	Dragon Martial Arts	Health Club			15	Member	20.0	300	1 405 0
54 Westchester Ave	Curry & Hovis	retail			1,200	sq. ft.	0.1	120	1,405.0
54 Westchester Ave	above Curry & Hovis	apartments			1	bedrooms	110.0	110	
56, 60 Westchester Ave	above retail	apartments	1.698	10,388	7	bedrooms	110.0	770	4 5 40 4
56, 60 Westchester Ave	Key Bank, Toy Store	retail / Office	1.698		7,791	sq. ft.	0.1	779	1,549.1
39 Westchester Ave	private	residential	2.196	0	6	bedrooms	110.0	660	660.0
55, 57 Westchester Ave	Market & post office, 5 Retail Stores, Office	retail / office	7.71	54,138	54,139	sq. ft.	0.1	5,414	5,413.9
		PB-B Subtotal	22.655	85,718	NA	NA	NA	11,798	
22, 24 Westchester Ave	PR Organics	Retail	2.005	4.781	4.781	sq. ft.	0.1	478	478.1
26 Westchester Ave	Above Educators Alley		0.781		1	bedrooms	110.0	110	470.1
26 Westchester Ave	Qualities	apartments retail	0.761	2,197	549	sq. ft.	0.1	55	274.8
26 Westchester Ave	Educators Alley	office			1,099	sq. rt.	0.1	110	2/4.0
30 Westchester Ave	private	residential	1.002	1,708	1,033	bedrooms	110.0	110	110.0
21 Westchester Ave	private	residential	0.656	2,342	4	bedrooms	110.0	440	440.0
	Kende & London Joiner	retail	1.537	3,062	3,062		0.1	306	306.2
23, 23 A, B Westchester Ave			+	<u> </u>		sq. ft.	_		300.2
27 Westchester Ave	above Lion Heart	apartments Office	0.693	3,036	1 510	bedrooms	110.0	110 152	261.8
27 Westchester Ave	Di Biase Filkoff Architects		2.405	44.040	1,518	sq. ft.	0.1	-	4.760.0
29 Westchester Ave	A Home	residential	3.195	11,018	16	bedrooms	110.0	1,760	1,760.0
35 Westchester Ave	PR Vet Center	retail	0.764	2,145	2,145	sq. ft.	0.1	214	214.5
		PB-C Subtotal	10.633	30,289	NA	NA	NA	3,845	3,845
		PB Total	32.525	177,252				33,635	33,635

Stamford also includes a provision (item 13 in the contract) for Pound Ridge to access this water supply.

Previous Reports on Scotts Corner water/wastewater as described in the TF Report are briefly summarized as follows.

1992 Folchetti Report

Two areas for subsurface disposal near the point of generation in the Scotts Corners Business area were studied and neither was determined to be suitable. Pumping the effluent to the Town Park area (Parcel 9820-86), a distance of 6,300 or 9,000 feet depending on the selected route, was proposed as a potential solution.

1998 – 2000 Malcolm Pirnie

Alternatives examined with test pits dug and percolation tests performed behind lots 60, 61, 62.

2002 Folchetti Report

Town Park site is addressed and challenges for its use for wastewater disposal are presented. This report also discusses potable water solutions, water from Stamford, drilling wells and getting water from the golf course area. Table 1-2 presents the Folchetti 1992 Report estimated buildout flows based upon the 1990 Clark Associates Planning Study and zoning.

Folchetti 1992 Report Estimated Flows Add'l Build Out **Build Out** % of 1992 Existing (Saturation) (Saturation) Total Commercial 20,393 10,919 31,312 49% Residential 4.250 28,500 32.750 51% 39.419 64.062 24.643 Total

Table 1-2 Scotts Corner 1992 Buildout Estimated Flows

1.2 WASTEWATER FLOW ESTIMATES

LAI developed wastewater design flow estimates for each property, Table 1-1, based upon the TF Report data on property use characteristics, i.e. # restaurant seats, office sf, etc., and NYSDEC design criteria per 2014 New York State Design Standards for Intermediate Sized Wastewater Treatment Systems.

1.3 WATER USE DATA

Based upon a FOIL request, the Westchester County Department of Health provided monthly water use records for the period 2018-2019 for the 10 properties within Scotts Corner that are required to report their water use. Table 1-3 presents the average annual water use data for the ten properties.

Environmental Engineers/Consultants
LOMBARDO ASSOCIATES, INC.

Table 1-3 Annual Water Use Data for Scotts Corner

	Scott's Corner Water Use Summary - Annual Data						
Location	Ave. Daily Flow (GPD)	Max. Daily Flow (GPD)	Min. Daily Flow (GPD)	Buildout WW Flow (GPD)			
83 Westchester Ave.	792	2,132	340	1,283			
78 Westchester Ave.	33	55	20	298			
76 Westchester Ave.	308	582	78	2,718			
74 Westchester Ave.	447	2,790	0	2,609			
73 Westchester Ave.	254	470	40	560			
71 Westchester Ave.	77	100	50	1,651			
69 Westchester Ave.	404	842	0	2,629			
55/57 Westchester Ave.	1,600	12,200	100	5,414			
54 Westchester Ave.	664	910	380	1,146			

1.4 SUMMARY OF SCOTTS CORNER BUSINESS DISTRICT ZONING REGULATIONS Planned Business A (PB-A) District

A. Intent

The Planned Business A "District" is intended to be limited primarily to businesses serving the ordinary shopping needs of the residents. "Building" areas and "parking areas" are established in this "district", see Figure 1-4. Site plan approval by the Planning Board, and conformance to the approved site plan, are mandatory requirements of this "district."

B. Building Use

 All buildings or pedestrian use areas will be located within the 'building use' area located on each parcel and in conformance with Building Use Schedule, Table 1-4.

C. Permitted uses in Parking Area

- No building or structure shall be located within a parking area as well as no storage of vehicles
- Temporary Building Zoning Board of Appeals may grant a variance permitting erection of a temporary building in the parking area.

D. Required Open Spaces

No setbacks to the limits of the building area are required, except for the following case: if two separate buildings are built within one parcel's building area, minimum distance between buildings shall be no less than 6' or ½ height of tallest building, whichever is greater.

E. Off-street parking and loading

- Individual requirements to provide off-street parking shall be considered satisfied in PB-A, provided all parking space located on site has been improved for public parking use. Otherwise, off-street parking will be required.
- One off-street loading space shall be provided for the first 4,000 square feet of nonresidential floor area, with an additional loading zone everyone 10,000 sq. ft.

F. Site plan approval

- For any change in building dimensions or use that increases water use, sewage generation, traffic or parking, a Planning Board Site Plan approval is required, in accordance with Article IX of the Town's Chapter 113 Zoning Code.
- Any open space not required for pedestrian or vehicle traffic or for off-street parking or loading shall be permanently maintained with grass, trees or suitable plantings and maintained per § 113-24.

G. Service Wires

 All power, telephone and other service wires shall be placed underground within the boundaries of any PB-A District Lot.

Planned Business B (PB-B) District

A. Intent

 Primary use in District PB-B is retail servicing residents of Pound Ridge and shall be limited primarily to businesses.

B. Required Open Space

 Building locations shall follow all minimum setbacks as written in the following sections. The Planning Board reserves the right to increases these setbacks to match the character and development of PB-B on a case by case basis.

C. Minimum Building Separation

 Buildings shall have at least 10 feet or ½ the average height of the buildings between them, whichever is greater.

D. Landscaping

- All areas of PB-B not covered by buildings, driveways, parking areas or walks will be suitably planted per provisions § 113-24.
 - Landscaped area abutting residential parcels shall be a landscape buffer, using evergreen plantings to provide privacy to each abutting parcel. Landscape buffer shall be needed along any lot line or portion directing across the street from a residential district, and shall be 15 feet in width. Non-evergreen plantings, or structures shall as walls or fences may be used as appropriate per Planning Board approval.
- Internal Landscaping within parking areas
 - ➤ For off-street parking areas containing 25 or more spaces, at least 10% of parking area space shall be used for landscaping. This area will contain at least one 3" caliper, 4' tall tree per 10 parking spaces.
 - ➤ Planning Board may require addition of 4" caliper, 4' tall trees along property lines bordering streets.
- Street Trees may be required as determined by the Planning Board

E. Off street parking and loading

 All parking and loading req's in PB-B shall meet standards of Off-Street Parking and Loading requirements as stated in Article X of Chapter 113, Zoning.

F. Site Plan Approval

• Site plan approval, per Article IX of Chapter 113, by Planning Board is mandatory for new, expanded or changed building development.

Planned Business C (PB-C) District

A. Intent

 Primary use in District PB-C is retail servicing residents of Pound Ridge (same as PB-B), and due to a variety of factors as stated in the Code, shall have a lesser intensity of use. As stated on Table 1-4, restaurant use is prohibited in the PB-C District.

B. Green spaces

• Areas denoted as 'green space areas' in PB-C shall be reserved as buffer zones. No building or structures, improvements or parking areas are permitted in green space buffer zones, unless acting for a subsurface septic system for new, existing or residential structures. In this case, no more than 20% of green space shall be used to meet area requirements for a subsurface septic system.

Figure 1-5 presents the Zoning Map for PB-A, PB-B & PB-C Districts.

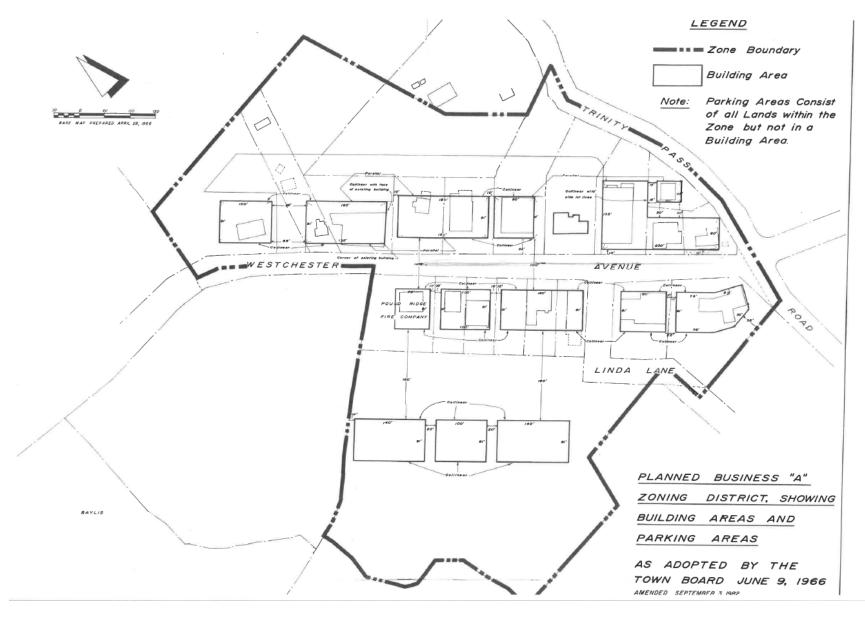


Figure 1-4 Zoning Map PB-A District

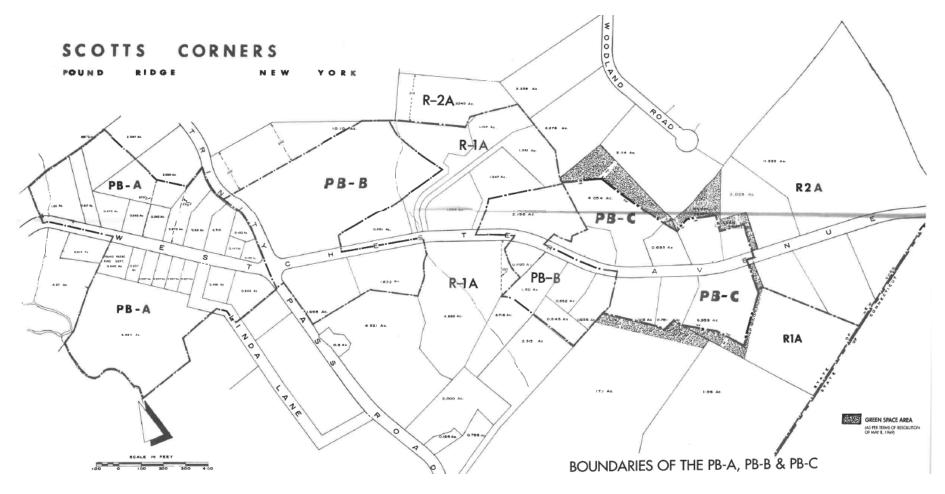


Figure 1-5 Zoning Map PB-A, PB-B & PB-C Districts

Table 1-4 PB-A, PB-B and PB-C Zoning Schedule of Use Regulations

ZONING

113 Attachment 3

SCHEDULE OF USE REGULATIONS Nonresidential Districts § 113-41 Town of Pound Ridge, New York [Amended 8-13-1998 by L.L. No. 7-1998]

	In any "nonresidence district," no "building" or "premises" shall be "used," and no "building" or group of "buildings" or part of a "building" or "structure" shall be erected, constructed, enlarged, "altered," arranged, "used," in whole or in part, except for one or more of the "uses" set forth below. "Uses" in the PB-B and PB-C zoning "districts" may include a coordinated group of stores designed as a unit. Only those "uses" specifically listed shall be permitted, and any "use" not listed shall be deemed to be prohibited. No "use" shall be permitted which is noxious or offensive by reason of odor, dust, smoke, vibration, radiation, danger of explosion, flashing or excessive light							
	permitted, and any "use" not listed shall be deemed to be prohibited. No "use" shall be or harmful discharge of waste materials. The "use" of an internal combustion engine silencer.							
District	Permitted Principal Uses	Special Permit Uses (Subject to conformance with additional standards as provided in Article VIII)	Permitted Accessory Uses					
PB-A	A. Stores, other than "restaurants," for the sale of goods at retail or performance of customary personal services or services clearly incident to retail sales. No fabrication or manufacturing shall be permitted, except that which is incident to, and on the same "premises" with, such retail sales, and further provided that such incidental fabrication or manufacturing is conducted entirely within a "building" and does not occupy more than 25% of such store's floor area. B. Business, professional or banking offices. C. Sit-down "restaurants." D. Telephone exchanges, not including outdoor service or storage yards.	the area of the Town of Pound Ridge and/or immediately adjacent communities, provided that a compelling public need is	See § 113-46C regarding permitted "uses" in "parking areas." A. "Dish antennas," subject to the requirements of § 113-20.					
	E. Churches and other places of worship. F. Governmental "buildings" and "uses," including water supply facilities. G. Residential "dwelling units," except not at the first floor level within 150 linear feet of Westchester Avenue. H. "Health, exercise or fitness clubs."	used exclusively for residential purposes. B. Automotive service stations, automotive "garages," automobile repair shops. C. The operation of a new or "used" automobile sales business, provided that all vehicles shall be kept or stored within completely enclosed "buildings." D. "Take-out food establishments," "bakeries," "delicatessens," "sandwich shops" E. "Wireless telecommunication services facilities."						

	In any "nonresidence district," no "building" or "premises" shall be "used," and no whole or in part, except for one or more of the "uses" set forth below. "Uses" in the permitted, and any "use" not listed shall be deemed to be prohibited. No "use" shall or harmful discharge of waste materials. The "use" of an internal combustion engine silencer.	PB-B and PB-C zoning "districts" may include a coordinated group of sto be permitted which is noxious or offensive by reason of odor, dust, smoke,	ores designed as a unit. Only those "uses" specifically listed shall be vibration, radiation, danger of explosion, flashing or excessive light
		Special Permit Uses (Subject to conformance with additional	
District	Permitted Principal Uses	standards as provided in Article VIII)	Permitted Accessory Uses
PB-B	A. Stores, other than "restaurants," for the sale of goods at retail or performance of customary personal services or services clearly incident to retail sales, except no automobile sales, service stations, "garages," auto repair shops or car washes. No fabrication or manufacturing shall be permitted, except that which is incident to and on the same "premises" with such retail sale, and further provided that such incidental fabrication or manufacturing is conducted entirely within a "building" and does not occupy more than 25% of such store's floor area. B. Business, professional or banking offices. C. Sit-down "restaurants." D. Telephone exchanges, not including outdoor service or storage yards. E. Places of worship. F. Governmental "buildings" or "uses." G. Residential "dwelling units" on the second and third floor levels only. H. "Health, exercise or fitness clubs."	A. Sewage treatment plants or water supply facilities. B. "Public utility" substations and transmission lines and facilities serving the area of the Town of Pound Ridge and/or immediately adjacent communities, as permitted and regulated in the PB-A "District." C. "Take-out food establishments," "bakeries," "delicatessens," "sandwich shops." D. "Wireless telecommunication services facilities."	A. Off-"street" parking and loading in accordance with Article X, which shall not be construed to include the storage, display, servicing or dismantling of automobiles or other vehicles. B. Signs as permitted by the Town Sign Law (Chapter 88). C. Fully enclosed refuse-storage facilities. D. Other "uses" customarily incidental and accessory to a permitted principal "use" in this "district" and located on the same "lot" therewith. E. "Dish antennas" subject to the requirements of § 113-20.
PB-C	As permitted and regulated in the PB-B "District, "except that land in the PB-C "District" shall not be "used" for "restaurant" purposes.	As permitted and regulated in the PB-B "District," except that land in the PB-C "District" shall not be "used" for "restaurant," "take-out food	As permitted and regulated in the PB-B "District."
		establishment," "bakery," "delicatessen" or "sandwich shop" purposes.	

1.5 AGENCIES WITH JURISDICTIONS AND ASSOCIATED REGULATIONS

The regulatory agencies that have jurisdiction for wastewater management in Pound Ridge are:

- ✓ Westchester County Department of Health (WC DoH),
- ✓ New York State Department of Environmental Conservation (NYSDEC).

Westchester County Department of Health (WC DoH)

WC DoH's jurisdiction is based on Article VIII of the Laws of Westchester County which states in part that its purpose "relies upon requiring all onsite wastewater treatment systems constructed or installed in Westchester County conform to the standards established in the New York State Public Health Law, by the Board of Health and/or the Commissioner of Health. Per Chapter 873, Article XXII, Section 873.2202 of the Laws of Westchester County, permits are required from WC DoH for all, regardless of size, treatment and subsurface disposal systems.

On-site Systems

Westchester County Health Department's Rules and Regulations for the Design and Construction of Residential Subsurface Sewage Treatment System, last issued effective January 1, 2002, govern small flow wastewater systems. WC DoH may consider Advanced Alternative designs for the complete replacement of an Onsite Wastewater System (OWTS) on difficult sites that will not support conventional OWTS designs currently. Per Section 873.740 of Article VIII, Enhanced Treatment Units (ETUs), Aerobic Treatment Units (ATUs) and Other Equipment are required to be maintained by a service professional or contractor acceptable to WC DoH and have a Declaration prescribed by WC DoH recorded by the property owner in the office of the Westchester County Clerk, Division of Land Records.

Larger Flow Systems

WC DoH relies on NYSDEC New York State Design Standards for Intermediate Sized Wastewater Treatment Systems dated March 5, 2014 for permitting of commercial wastewater systems of all sizes and large residential systems.

Inspection & Septage Pumping

Westchester County and NYSDEC developed an ordinance effective May 2011 that requires all septic systems be pumped and inspected at least once every five (5) years by a Westchester County licensed service provider. The contractor is required to file a Septic System Data Form with the County.

The NYS Department of Health issued Wastewater Treatment Standards, via Appendix 75-A, https://www.health.ny.gov/regulations/nycrr/title_10/part_75/appendix_75-a.htm, effective March 16, 2016 for "on-site wastewater treatment systems serving residential properties and receiving sewage without the admixture of industrial wastes or other wastes, as defined in Environmental Conservation Law, Section 17-0701, in quantities of less than 1,000 gallons per day (gpd)." "The Appendix establishes the minimum standards acceptable in New York State. The local health departments may establish more stringent standards."

New York State Department of Environmental Conservation (NYSDEC)

NYSDEC issues permits for all wastewater systems greater than 1,000 gpd. For wastewater systems between 1,000 and 30,000 gpd, depending on the County, the County DoH may be

delegated to act as DEC's agent. In WC, NYSDEC has delegated its permitting of wastewater systems with subsurface discharge with flows <= 30,000 gpd to WC DoH.

For larger flows, NYSDEC issues the permit.

Summary of Regulatory setbacks

Westchester County Department of Health (<1,000 GPD)

Design Flow

- Residential (1-3 family) = 200 GPD/bedroom + 25% for each additional kitchen.
- Commercial = Rely upon NYS DoH 75-A or NYSDEC New York State Design Standards for Intermediate Sized Wastewater Treatment Systems dated March 5, 2014

Table 1-5 presents WC DoH code required separation distances for Subsurface Treatment Systems (SSTS).

Table 1-5 Westchester County DHS Minimum SSTS Separation

Westchester County DHS - Required Separation from WW Sources								
Wastewater Source	Drilled Well (Higher Elev.)	Drilled Well (Lower Elev.)	Wetland / Stream / Lake / Watercourse	Dwelling	Prop. Line	Decks		
House Sewer (Watertight) (CIP or similar)	25'	25'	25'	-	10'	-		
Septic Tank	50'	50'	50'	10'	10'	5'		
Effluent Line to D-Box	50'	50'	50'	10'	10'	-		
D-Box	100'	100'	100'	20'	10'	-		
Absorption Field	100'	200'	100'	20'	10'	10'		
Seepage Pit	150'	200'	100'	20'	10'	10'		
Dry Well (Roof/Footing)	50'	50'	25'	20'	10'	-		

- No trees within 10' of absorption system
- Additional Setbacks from SSTS:
 - Dry Well: 50' (horizontal & vertical)
 - Piped Drainage: 25'
 - Open Channel Drainage: 50' Upgrade Curtain Drain: 15'
 - Downgrade Curtain Drain: 50'
 - Upgrade Swimming Pool: 20'
 - Downgrade Swimming Pool: 50'

Area Usability Standards

- Twice proposed system area
- 5' min. separation to groundwater
- >60 min./in. perc rate unsuitable for septic system design

Environmental Engineers/Consultants LOMBARDO ASSOCIATES, INC. Table 1-6 presents WC DoH code required absorption trench lengths for various percolation rates and number of bedrooms.

Table 1-6 WC DoH SSTS Required Absorption Trench Lengths

Westchester County DHS - Required Absorption Trench Length							
Perc. Rate	Appl. Rate	" or bear soms (200 at b) billy					
(min./in.)	(GPD/ft ²)	1	2	3	4	5	
1-5	1.2	84	168	252	336	420	
6-7	1	100	200	300	400	500	
8-10	0.9	112	224	336	448	560*	
11-15	0.8	125	250	375	500	625*	
16-20	0.7	144	288	432	576*	720*	
21-30	0.6	168	336	504*	672*	840*	
31-45	0.5	200	400	600*	800*	1000**	
45-60	0.45	222	444	666*	888*	1110**	

^{*} requires one pressure dosing device

Absorption Trench Construction

- Trench width = 24". No allowance shall be made for wider trenches. Distance between trenches shall be no less than 5'.
- Center to center spacing shall be 7'.
- ➤ Stone bed shall be 12-18" in depth. This includes pipe diameter and 2" of stone above pipe.
- Overall trench depth shall be 18-30". This includes 4" of topsoil, and trench cover, which shall measure 6-12".

NYS DEC

NYS DEC's aerial separation requirements for wastewater treatment facilities are presented on Table 1-7. Table 1-8 presents NYS DEC's Septic System Minimum Horizontal Setbacks

Table 1-7 NYS DEC WWTP Separation Requirements

NYS DEC - Minimum Aerial Separation from WWTF					
Wastewater Source	Radial Distance from Downwind Dwellings (ft)	Distance to Property Line (ft)			
Enclosed WWTP (Facility Building, Buried Sand Filters)	200 ¹	150			

^{1:} NYSDEC will consider proposed site specific setbacks.

^{**} requires multiple alternating pressure dosing devices (1/500')

Table 1-8 NYS DEC SSTS Minimum Horizontal Setbacks

NYS DEC - Minimum Horizontal Separation from Septic System Fields							
Feature	Watertight Septic Tank	Sewer Line	Absorp. Field / Unlined Sand Filter (w/ Reserve Area)	Absorp. Field in Gravel Soils (w/ Reserve Area)			
Requir	ed Minimum	Separation p	er Public Health	Law			
Drilled Well - Public	100'	50'	200'	200'	200'		
Drilled Well - Private	50'	50'	100'	200'	150'		
Water Line (Pressure)	10'	10'	10'	10'	10'		
Recomme	ended Minim	um Horizonta	al Separation Dis	tances			
Water Line (Suction)	50'	50'	100'	100'	150'		
Dug Well/Spring	75'	50'	150'	200'	150'		
Surface Water	50'	25'	100'	100'	100'		
Water Supply Reservoir - Private	50'	50'	100'	100'	100'		
Water Supply Reservoir - Public	100'	100'	200'	200'	200'		
Interceptor/Open drainage Diversion to GW	25'	25'	50'	50'	50'		
Stormwater Infiltration Mgmt. Practive	25'	25'	50'	50'	50'		
Stormwater Mgmt. Practice Discharging to GW	50'	25'	100'	100'	100'		
Culvert (Tight Pipe)	25'	10'	35'	35'	35'		
Culvert Opening	25'	25'	50'	50'	50'		
Catch Basin	25'	N/A	50'	50'	50'		
Swimming Pool (In-Ground)	20'	10'	35'	35'	50'		
Foundation	10'	N/A	20'	20'	20'		
Property Line	10'	10'	10'	10'	10'		
Top of Embankment	25'	25'	50'	50'	50'		
Wetland	100'	100'	100'	100'	100'		

1.6 PERMITTING REQUIREMENTS

Permitting of a Study Area wide wastewater system is performed by NYSDEC. Permitting of a Study Area wide water system is performed by NYSDoH. Figure 1-6 presents the NYSDEC stream classifications in the Study Area. As can be seen, all streams are classified as AA-S, which means it is a water body best usage for a source of drinking water, swimming and other recreation, and fishing. No direct discharges are allowed in these streams and no waivers are allowed. Consequently, it is proposed that the wastewater treatment system achieve Tertiary Treatment with Disinfection effluent quality prior to subsurface disposal.

The **Tertiary Treatment with Disinfection Standard** has the following effluent quality.

pH 6.5 – 8.5 BOD/TSS < 10 mg/L Oil & Grease < 15 mg/L Total Nitrogen (TN) < 10 mg/L

Fecal Coliform Average < 24 & Maximum < 200 MPN / 100 ml Enterococcus Average < 24 & Maximum < 104 MPN / 100 ml

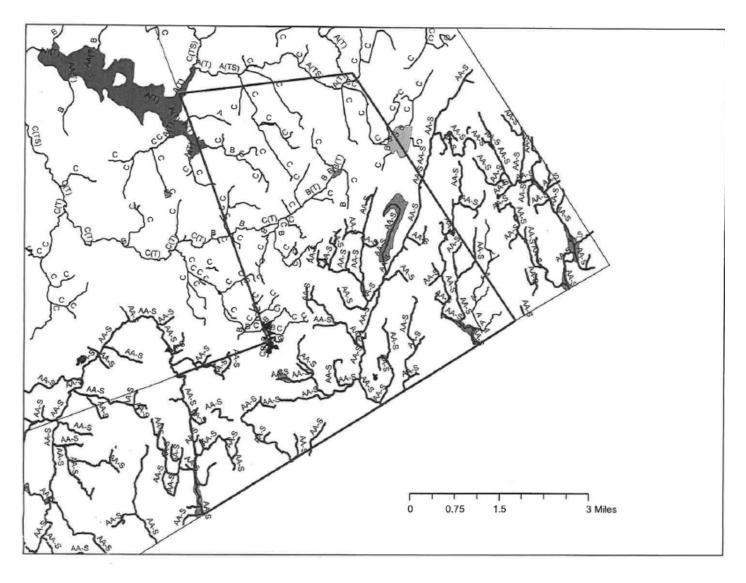


Figure 1-6 NYSDEC Stream Classification in Pound Ridge

2. WASTEWATER MANAGEMENT OPTIONS

2.1 ON-SITE TECHNOLOGIES

In Westchester County, only conventional septic tank – absorption trench designs are allowed for new construction. For sites with a failing system where the site will not support a conventional OWTS design currently specified in the 2002 Rules, WCDoH will consider an alternate design on a case by case basis per Section 7.0 of the 2002 Rules and Nov. 7, 2008 OWTS Remediations and Repairs Rule. Due to the evolution of viable technologies, WC DoH addresses these matters on a case by case basis.

As demonstrated in Chapter 3, the on-site approach is not technically viable in the Study Area. Consequently, on-site technologies are not relevant.

2.2 Cluster/Small & Large Neighborhood Systems

Cluster/Small neighborhood wastewater systems are defined as systems that serve a small number of properties with localized treatment and disposal. In many applications, small neighborhood systems are used in conjunction with on-site systems to address a community's wastewater needs. As demonstrated in Chapter 3, small neighborhood wastewater systems are not technically viable in the study area.

Large neighborhood wastewater systems are similar to small ones with scale being the difference.

Small and large neighborhood systems consist of the following components:

- ✓ Collection
- ✓ Treatment
- ✓ Dispersal / reuse

The collection system options are:

- Conventional, minimum 8" gravity sewer with pump stations as needed
- Grinder pump (GP)– low pressure
- Septic tank effluent (STE) with pump (STEP) as needed. Typical minimum pipe size for STE systems is 4' and 2" for STEP
- Vacuum sewer

Treatment systems consist of:

- Activated Sludge (AS) with various types
- Fixed Film (FF) systems
- Integrated Fixed Film-Activated Sludge (IFAS)

Nutrient removal – Nitrogen

- Biological removal
- Denitrification filters

Nutrient removal - Phosphorus

- Chemical precipitation
- Biological removal



Disposal / Reuse

- Subsurface
- Direct discharge
- Reuse for non-potable purposes, such as landscape irrigation

The various technologies are described in numerous public documents, including:

- USEPA On-Site Wastewater Management Design Manual, 2002 https://www.epa.gov/sites/production/files/2015-

 06/documents/2004 07 07 septics septic 2002 osdm all.pdf
- ➤ USEPA, "It's Your Choice, A Guidebook for Local Officials on Small Community Wastewater Management Options", (EPA-625/9-87-006)
- ➤ Cluster Wastewater Systems Planning Handbook. Project No. WU-HT-01-45. Prepared for the National Decentralized Water Resources Capacity Development Project, Washington University, St. Louis, MO, by Lombardo Associates, Inc., Newton, MA, 2004
- Alternative Sewer Systems Manual of Practice FD-12, 2008, Water Environment Federation https://www.e-wef.org/Default.aspx?TabID=251&productId=6930

Information on the various technical options is available from the following national organizations:

- ✓ US EPA (https://www.epa.gov/septic)
- ✓ Water Environment Federation https://www.wef.org/resources/publications/books/
- ✓ Water Environment Research Foundation http://www.ndwrcdp.org/research.asp
- ✓ Water Research Foundation http://www.werf.org/i/c/DecentralizedCost/Decentralized_Cost.aspx

Over the years numerous States have published technology evaluation documents including:

 Review of Technologies for the Onsite Treatment of Wastewater in California, 2002 https://www.waterboards.ca.gov/sandiego/water_issues/programs/wine_country/docs/up-dates081910/owts-review.pdf

A review of wastewater management technologies prepared by Lombardo Associates for the Town of East Hampton NY in 2015 can be found at <a href="http://www.ehamptonny.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="http://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="http://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="http://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="https://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="https://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="https://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="https://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="https://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater-Management-Plan?bidId="https://www.ehampton.gov/DocumentCenter/View/1744/East-Hampton-Town-Wide-Wastewater

Table 2-1 lists the types of treatment systems that are typically applicable at various wastewater flow ranges. Figure 2-1 illustrates the components and options for wastewater collection, treatment and disposal / reuse.

Table 2-1 Typical Wastewater Treatment Technologies Used for Various Flow Rates

Pretreatment		Design Flows (gpd)						
Needed	Technology*	<2,000	2,000 - 10,000	10,000 - 20,000	20,000- 50,000+			
	Pretreatment							
	Septic Tank ⁺⁺	✓	✓	✓	✓			
✓	Anaerobic Upflow Filter	✓	✓	✓	✓			
	Secondary Treatment							
	Fixed Film Growth							
	Rotating Biological Contactor		✓	✓	✓			
	Trickling Filter ***	✓	✓	✓	✓			
✓	Subsuface Wetlands— Vegetated Submerged Beds	✓	✓	✓	✓			
✓	Constructed Wetlands (FWS)			✓	✓			
✓	Recirculating Media Filters	✓	✓	✓	✓			
✓	Intermittent Media Filters	✓	✓	✓				
	Suspended Film Growth							
	Oxidation Ditch				✓			
	Activated Sludge Systems	✓	✓	✓	✓			
	Sequencing Batch Reactor	✓	✓	✓	✓			
	Membrane Bioreactor			✓	✓			
	Integrated Fixed Film- Suspended Growth	✓	✓	✓	✓			
	Advanced Treatment							
✓	Nitrogen Removal	✓	✓	✓	✓			
✓	Phosphorus Removal	✓	✓	✓	✓			

Notes:

⁺ Depending on method of dispersal, disinfection systems may or may not be required.

⁺⁺ Tank may be part of collection system or located at treatment site.

⁺⁺⁺ Various media, usually with recirculation.

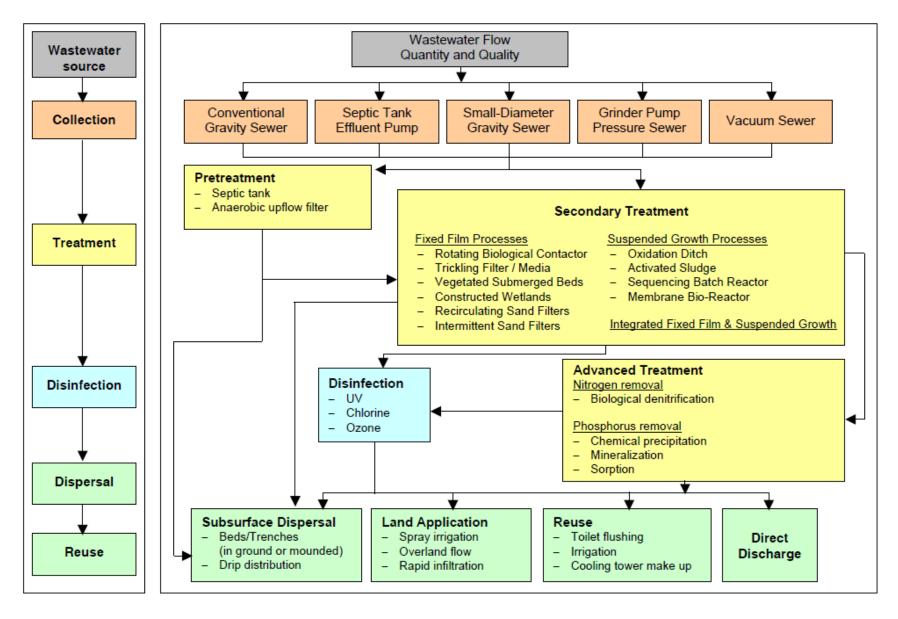


Figure 2-1 Overview of Neighborhood Wastewater Collection, Treatment, and Dispersal / Reuse Technologies

3 EVALUATION OF ON-SITE & NEIGHBORHOOD OPTIONS

3.1 METHODOLOGY AND EXISTING DATA

The area in which an on-site wastewater system can be located on any given parcel is the area that does not fall within:

- 100-ft of a wetland
- 10-ft from a property line
- 10-ft from a building
- 100-ft from an upgradient well, 200-ft from a downgradient well
- Areas with slopes >20%. It is noted that published slope information designates areas as < 15%, 15% - 25% and > 25% slopes. Consequently areas < 15% are noted as being viable, recognizing that this is being conservative and is taken into account when a detailed site analysis is performed.

For the purposes of this report, the remaining area on a parcel, after all the above areas have been subtracted out, is termed the "**Available Area**". Figure 3-1 and Table 3-1 present the available area for the Scotts Corner Study Area parcels. Figures 3-2 through 3-4 illustrate the location of existing septic systems and water supply wells.

For an on-site wastewater solution to be viable, the required area (treatment + disposal + reserve area) must be less than the available area. Once available space has been determined, NCRS soils data and available test pit data are used to estimate if the available area is suitable for use for wastewater treatment and disposal. If determined positive for on-site systems, then footprint requirements for each parcel's wastewater flow as determined in Section 1.3 are developed. Parcels that have insufficient space and / or inadequate subsurface conditions are labeled as "Off-Site Solution Required".

Soils test pit and percolation rate data are presented on Tables 3-2 through 3-4, with locations shown on Figures 3-5 and 3-6.

3.2 ON-SITE OPTION

25 of the 40 parcels listed in the study area, or 63% of all Scotts Corner Parcels, have no available area due primarily to wetlands and water supply well setbacks. 7 parcels, or 18% of parcels, have 5,000 or less sq. ft. of area available for treatment and disposal systems. The remaining 8 parcels possess 5,000 or more sq. ft.

With more than half of all parcels possessing no available area for treatment and disposal, the on-site option for Scotts Corner is not viable.

3.3 CLUSTER OPTION

The Cluster wastewater treatment option relies on large Available Areas within or near the Study Area to host the treatment and disposal system for, at a minimum, the parcels requiring an Off-Site Solution. A sewer system to pipe the effluent from the neighborhood parcels to the treatment area will be needed.

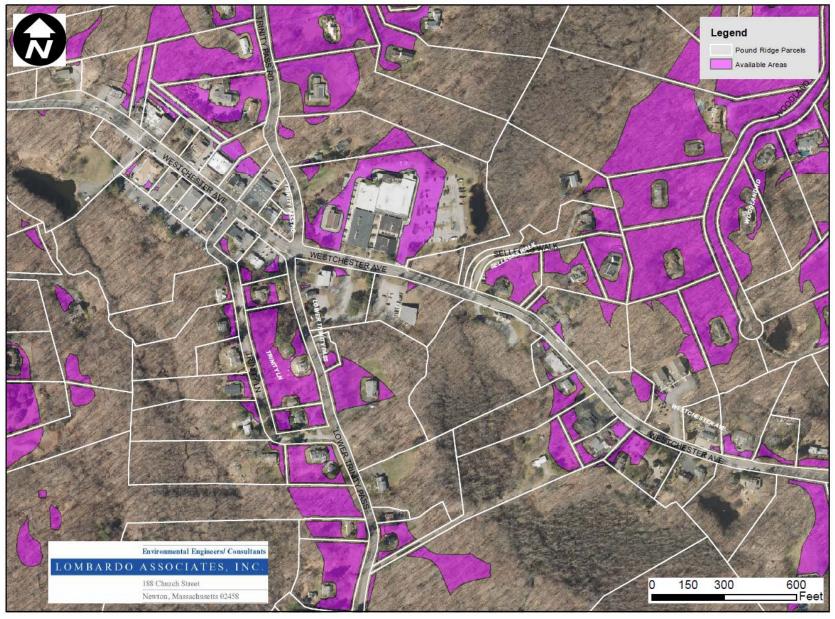


Figure 3-1 Available Area Map – Scotts Corner Study Area

Table 3-1 Scotts Corner Available Area Summary

	Scott's Corner Available Area Analysis							
#	Address	District	Avail.					
			Area (SF)					
1	89 Westchester Ave	PB-A	0					
2	87 Westchester Ave	PB-A	6,120					
3	85 Westchester Ave	PB-A	8,130					
4	83Westchester Ave	PB-A	2,480					
5	79 Westchester Ave	PB-A	0					
6	77 Westchester Ave	PB-A	0					
7	Westchester Ave	PB-A	0					
8	73 Westchester Ave	PB-A						
9	71 Westchester Ave	PB-A	5,090					
10	69 Westchester Ave	PB-A	0					
11	67 Westchester Ave	PB-A	0					
12	4 Trinity Pass Road	PB-A	0					
13	65 A & B Westchester Ave	PB-A	0					
14	Westchester Ave	PB-A	0					
15	80 Westchester Ave	PB-A	1,850					
16	78 Westchester Ave	PB-A	0					
17	76 Westchester Ave	PB-A	0					
18	74 Westchester Ave	PB-A	0					
19	72 Westchester Ave	PB-A	0					
20	70 Westchester Ave	PB-A	0					
21	68 Westchester Ave	PB-A	0					
22	66 Westchester Ave	PB-A	0					
23	26 Lower Trinity Pass Road	PB-B	14,775					
24	32 Westchester Ave (& 32A/B)	PB_B	2,465					
25	34 Westchester Ave	PB-B	2,875					
26	46 Westchester Ave	PB-B	0					
27	38 Westchester Ave	PB-B, R-1A	0					
28	40 Westchester Ave (& 40A)	PB-B	0					
29	54 Westchester Ave	PB-B	0					
30	56 Westchester Ave	PB-B	0					
31	39 Westchester Ave	PB-B	3,715					
32	55 Westchester Ave	PB-B						
33	22 Westchester Ave	PB-C	0					
34	26 Westchester Ave (& 28)	PB-C	0					
35	21 Westchester Ave	PB-C						
36	23 Westchester Ave (& 23A/B)	PB-C						
37	30 Westchester Ave	PB-C	11,020					
38	27 Westchester Ave	PB-C	0					
39	29 Westchester Ave	PB-C	18,840					
40	35 Westchester Ave	PB-C	2,550					



Figure 3-2 Scotts Corner Study Area Existing Septic and Well Locations – Northeast



Figure 3-3 Scotts Corner Study Area Existing Septic and Well Locations – Center



Figure 3-4 Scotts Corner Study Area Existing Septic and Well Locations – Southwest

Table 3-2 Pound Ridge Task Force Records – Scotts Corner Percolation Test and Test Pit Summary

Poun	Pound Ridge Task Force - Scott's Corner Perc. Test Results							
Prop.#	Property	Perc. Test#	Perc. Rate (min./in.)					
3	85 Westchester	-	N/A					
4	83 Westchester	1	N/A					
5	79 Westchester	-	N/A					
8	73 Westchester	1	5					
		2	5					
9	71 Westchester	-	N/A					
10	69 Westchester	-	N/A					
15	80 Westchester	1	4					
16	78 Westchester	-	N/A					
17	76 Westchester	-	N/A					
18	74 Westchester	-	N/A					
19	70 Westchester	-	N/A					
25	2434/	1	4					
25	34 Westchester	2	4					
		1	8.33					
27	38 Westchester	2	8.67					
		3	8.67					
29	54 Westchester	1	20					
		1	12					
30	56 Westchester	2	13					
32	55 Westchester	-	N/A					
33	22 Westchester	1	10					
		1	17.1					
		2	15					
36	29 Westchester	3	7.3					
			9.6					
37	27 Westchester	-	N/A					
38	23 Westchester	-	N/A					
		1	6.2					
40	40 35 Westchester		4.1					
		3	6.6					

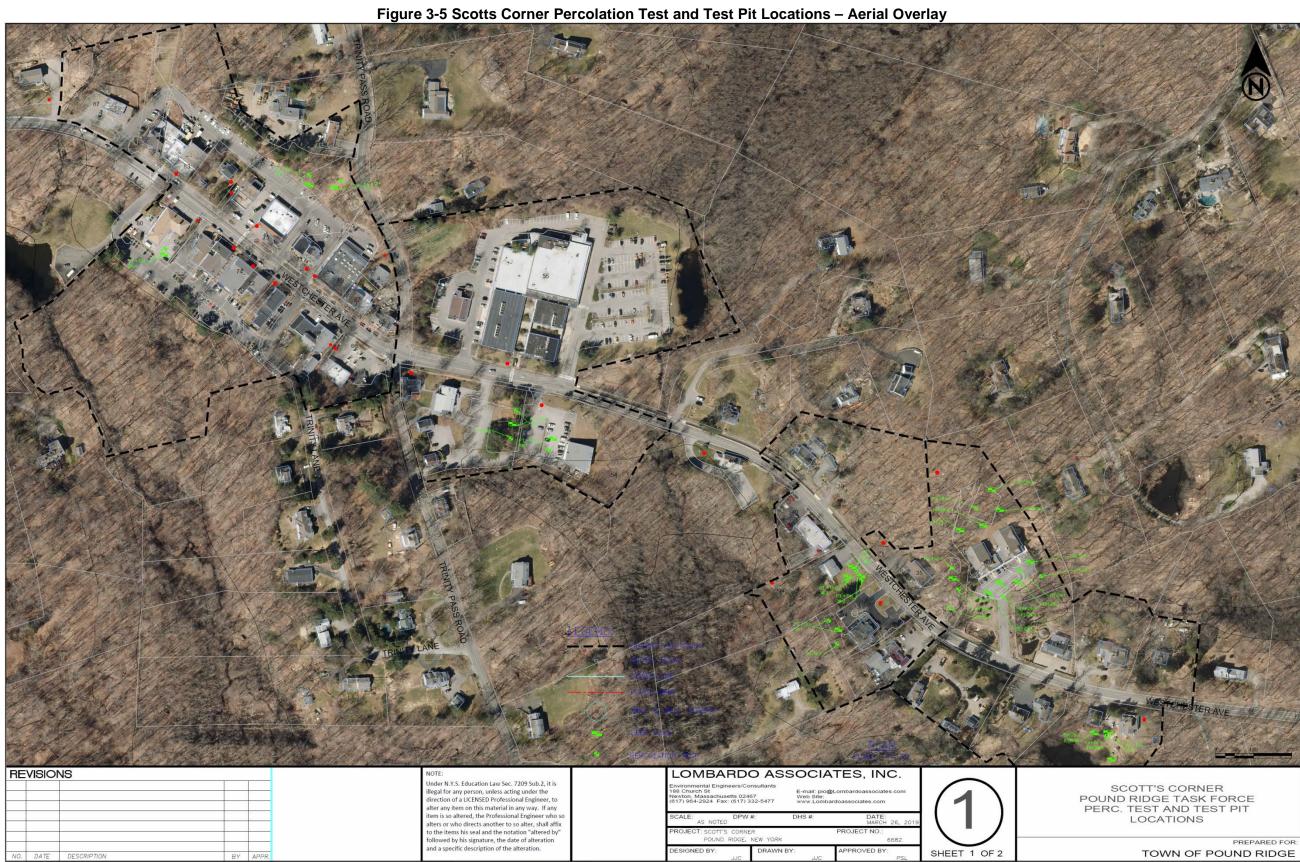
Pound Ridge Task Force - Scott's Corner Test Pit Results								
Prop. #	Property	Test Pit#	Depth to Bedrock/GW					
3	85 Westchester	,	N/A					
4	83 Westchester	-	N/A					
5	79 Westchester	-	N/A					
8	73 Westchester	DH 1	No Bedrock/GW					
		DH 2	No Bedrock/GW					
9	71 Westchester	-	N/A					
10	69 Westchester	-	N/A					
15	80 Westchester	DH 1	No Bedrock/GW					
16	78 Westchester	-	N/A					
17	76 Westchester	-	N/A					
18	74 Westchester	-	N/A					
19	70 Westchester		N/A					
25	34 Westchester	DH 1	No Bedrock/GW					
		DH 1	GW @ 72"					
27	38 Westchester	DH 2	GW @ 72"					
		DH 3	GW @ 72"					
29	54 Westchester	DH1	No Bedrock/GW					
30	56 Westchester	DH1	GW @ 108"					
32	55 Westchester	_	No Bedrock/GW					
		DH 1	No Bedrock/GW					
33	22 Westchester	DH 2	GW @ 48"					
		DH 3	Hard Packed Clay @ 27"					
		DH 1	Rock @ 72"					
		DH 2	Mottling @ 60", GW @ 78					
		DH 3	Mottling @ 78"					
		DH 4	No Bedrock/GW					
36	29 Westchester	DH 5	No Bedrock/GW					
		DH 6	No Bedrock/GW					
		DH 7	No Bedrock/GW					
		DH 8	No Bedrock/GW					
37	27 Westchester	-	N/A					
38	23 Westchester	-	N/A					
		P 1	No Bedrock/GW					
40	35 Westchester	P 2	No Bedrock/GW					
		P 3	No Bedrock/GW					
	1	DH 1	No Bedrock/GW					

Table 3-3 Pound Ridge Task Force – Scotts Corner Test Pit Records 1

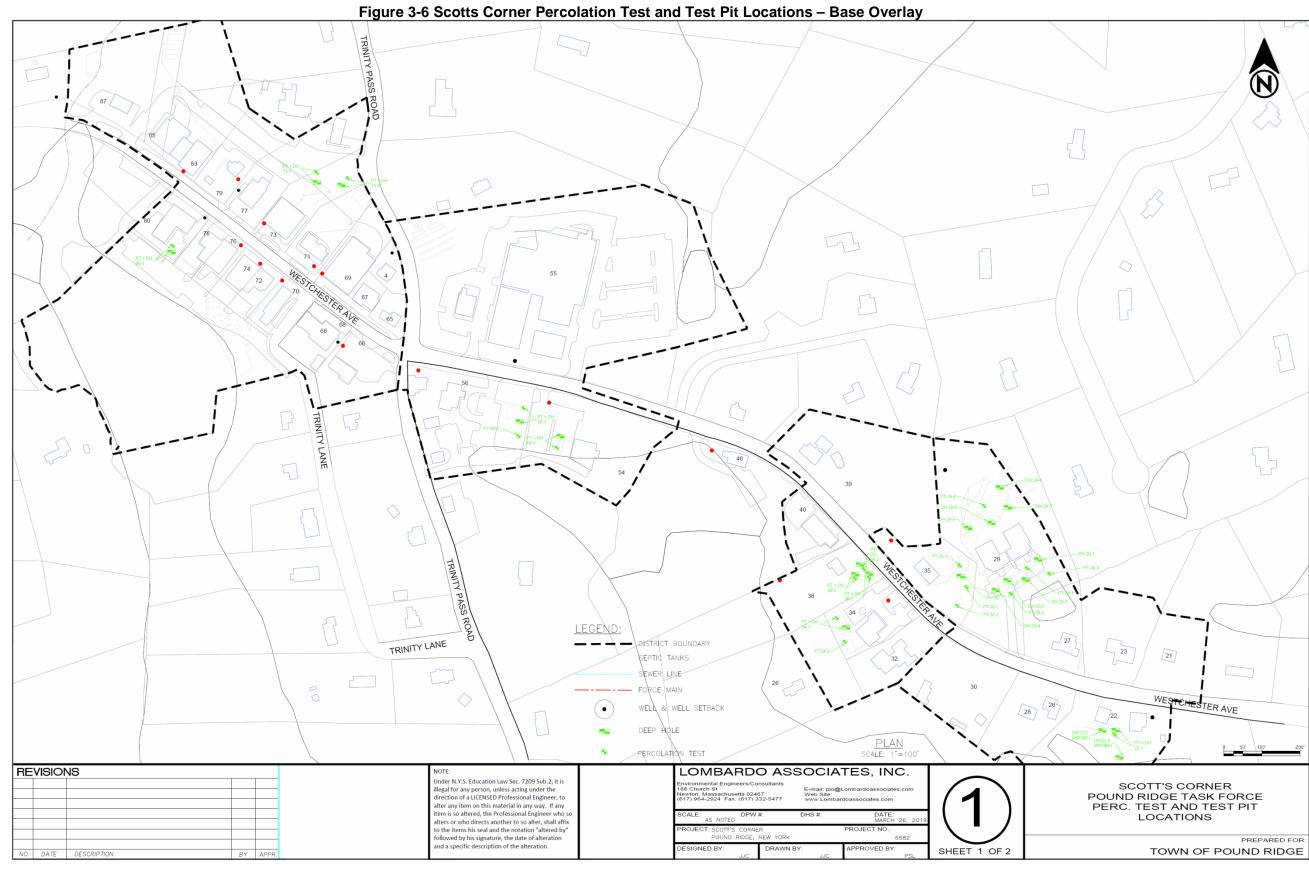
					Pound Ridge	Task Force - So	ott's Corner Te	st Pit Records				
Hole Depth	80 Westchester	73 Wes	tchester	56 Westchester	54 Westchester	**	38 Westcheste	r		35 Wes	tchester	
Deptii	DH 1	DH 1	DH 2	DH 1	DH 1	DH 1	DH 2	DH 3	P1	P2	P3	DH 1
G.L.		Top Soil	Top Soil	Top Soil	6" Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil
6"	Black Top	-	-			-	-	-	-		-	·
12"		Sandy Loam	Sandy Loam		Yellow Sub							
18"		Sandy Loam	Sandy Loam		Soil	Sandy Loam	Sandy Loam	Sandy Loam	Sand Clay	Sand Clay	Sand Clay	Sand Clay
24"		Sandy Loam & Gravel	Sandy Loam & Gravel	Sandy Loam					Mix	Mix	Mix	Mix
30"		Sand & Gravel; Pit Bottom	Sand & Gravel; Pit Bottom	Sandy Loan								
36"												
42"						Fine Graded	Fine Graded	Fine Graded	Sand, Some Stone	Sand, Some Stone	Sand, Some Stone	
48"	Sand & Gravel				Compact Sand & Gravel	Sand w/ small to medium	Sand w/ small to medium	Sand w/ small to medium				
54"						stones	stones	stones	Pit Bottom	Pit Bottom	Pit Bottom	Sand, Some
60"												Stone
66"				Sandy Loam w/ Clay								
72"					Pit Bottom	GW	GW	GW				
78"												
84"	Pit Bottom			GW @ 108"								Pit Bottom

Table 3-4 Pound Ridge Task Force – Scotts Corner Test Pit Records 2

		Pound Ridge Task Force - Scott's Corner Test Pit Records															
Hole Depth	34 Westchester				29 Wes	tchester				:	22 Westcheste	r					
Бери	DH 1	DH 1	DH 2	DH 3	DH 4	DH 5	DH 6	DH 7	DH 8	DH 1	DH 2	DH 3					
G.L.	Top Soil	Old PKG Lot	Old PKG Lot	Old PKG Lot	Old PKG Lot	Light Woods	Light Woods	Light Woods	Light Woods	Sod							
6"		Subbase Gravel	Subbase Gravel	Subbase Gravel	Subbase Gravel	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil		Probed to 27"					
12"		Gravelly		Gravelly Sand		Sandy Loam,	Sandy Loam,		Sandy Loam,	Loam							
18"		Loam Fill		Graveny Sand	Sandy Loam	Some Silts	Some Silts	Sandy Loam, Some Silts	Some Silts	Loani	Probed to 54"	27" Hard Packed Clay					
24"							Sands /		Sands / Gravel		Probed to 34						
30"					Fine Sand	Sands / Gravel	Gravel		Fine Sand								
36"	Bank Run Gravel																
42"		Very Rocky	Gravelly Loam Fill; Mottling @	Large			Very Rocky		Medium Sands, Gravelly								
48"			60"; GW / Seepage @ 78"	Boulders						Loam / Clay	GW						
54"							Very Rocky,			Mix.	Pit Bottom						
60"					Large Stones	Gravelly	Gravelly		Large Stones								
66"		Rock				Gravelly		Very Rocky									
72"	Pit Bottom	Rock		Fine Dense Sand				. Cry nocky									
78"				Mottling													
84"			Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom							



Scotts Corner Wastewater Management & Water Supply Study June 25, 2019 - FINAL PAGE 49



While 55 Westchester Avenue, possesses 81,840 sq. ft. of "available area", the private site has plans for expansion and due to environmental (i.e. flood plain, etc.), considerations is not viable for use for treatment and disposal. This is all prior to consideration of soils, depth to groundwater, etc. that affect the viability of sites.

Therefore, with a wastewater management demand of a minimum of 40,000 gpd and buildout of 80,000 gpd, the small neighborhood/cluster option is also not technically feasible.

Since both the on-site option and small neighborhood / cluster option are not viable, a Scotts Corner Study Area wide wastewater treatment option is required. Section 4 presents candidate sites and a preliminary screening on Available Area and soil conditions. Section 5 presents engineering layouts for 4 candidate sites deemed most favorable.

4. CANDIDATE SITES FOR WASTEWATER TREATMENT / DISPOSAL

4.0 OVERVIEW

As stated in Section 1.3, the following three wastewater design flow scenarios are being evaluated:

- I. 40,000 gpd existing conditions maximum use with some intensity of use increases
- II. 60,000 gpd Scenario I plus 20,000 gpd at Parcel or
- III. 80,000 gpd -- Scenario II plus 20,000 gpd at Parcel or

Table 4.0-1 lists the properties that have been identified as candidates for wastewater treatment and/or disposal for the above scenarios. Near Study Area Town owned properties and private parcels known by the Town to be willing to be considered for the project are listed on Table 4.0-1.

Table 4.0-1 Candidate Properties for Scotts Corner Wastewater Treatment / Disposal

	Status as of March 28, 2019							
	Candidate Disposal Site	Soils Data	Comments	Parcel IDs				
1	Town Park	Yes		9820-1, 9820-2.2, 9820-8, 9820-86				
2	Pine Drive -Lower Trinity Rd	Yes, partial		9320-28				
3	Oceanus	Yes		9320-13.9-12, 9320-13.9-13 & 9320-13.9-15				
4	Old Pound Rd	Qualitative		9820-16				
5	Elementary School	Yes		9816-46 & 9816-47				
6	Town Land adjacent to School	No data exists		9816-64				
7	Golf Course	No		9316-18.9				
8	169 Barnegat Road	Yes	27.17 acres	9457-12				
	Wastewater Treatment System Site(s)							
1	Clark - 12 & 16 Trinity Pass Rd	No data known to exist	WWTP site	9454-16 & 9454-17				
2	169 Barnegat Road		27.17 acres	9457-12				

Figures 4.0-1a and 4.0-1b illustrate the location of the candidate parcels and the watershed within which they are located. The available area (defined in Section 3) on each property that could be used for treatment and/or wastewater disposal is presented on Figures 4.0-2 and 4.0-3.

Available Area was calculated for each Parcel and soils suitability examined. The following setbacks were considered:

- 100-ft from wetland
- 10-ft from a property line
- 20-ft from a building
- 200-ft from public wells, 100-ft from private wells

- 200-ft from public water supply reservoir, 100-ft from private water supply reservoir
- Areas with slopes >20%

For each candidate site, Tables and maps of the following features are provided, when data is available:

- ✓ Soils / Percolation Rate Data
- ✓ Slope
- ✓ Wetlands & Setbacks
- √ Floodplains

Table 4.0-2 provides a list of existing data for each Table 4.0-1 candidate site.

Table 4.0-2 Candidate Sites Existing Information Summary

	Candidate Site Existing Information Summary*							
	andidate Site Name	Soils	Test Pit	Slope /	Wetlands	Flood		
	andidate Site Name	Мар	Results	Elevations	& Setbacks	Plains		
1	Town Park	Yes	Yes	Yes	Yes	Yes		
2	Lower Trinity Pass	Yes	Yes	Yes	Yes	Yes		
3	Oceanus	Yes	Yes	Yes	Yes	Yes		
4	Old Pound Road	Yes	Yes	Yes	Yes	Yes		
5	Elementary School	Yes	Yes	Yes	Yes	Yes		
6	School Adjacent Land	Yes	None	Yes	Yes	Yes		
7	Golf Course	Yes	TBD	Yes	Yes	Yes		
8	Clark - 12 & 16 Trinity Pass Road	Yes	None	Yes	Yes	Yes		
9	169 Barnegat Road	Yes	Yes	Yes	Yes	Yes		

^{*}TBD = To Be Determined.

It is noted that published slope information designates areas as < 15%, 15% - 25% and > 25% slopes. Consequently areas < 15% are designated as being viable, recognizing that this is being conservative and is taken into account when a detailed site analysis is performed.

Explanation of soil types is presented in Appendix B.

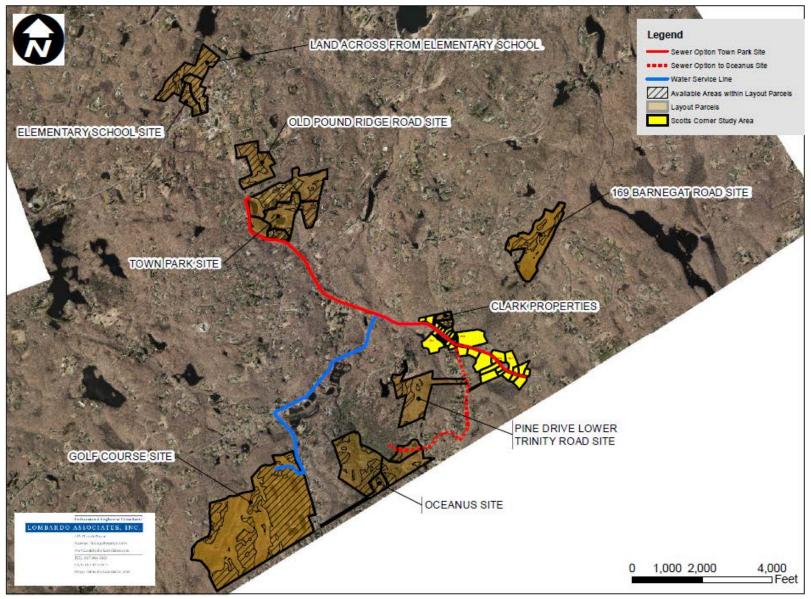


Figure 4.0-1a Candidate Sites – Location Map

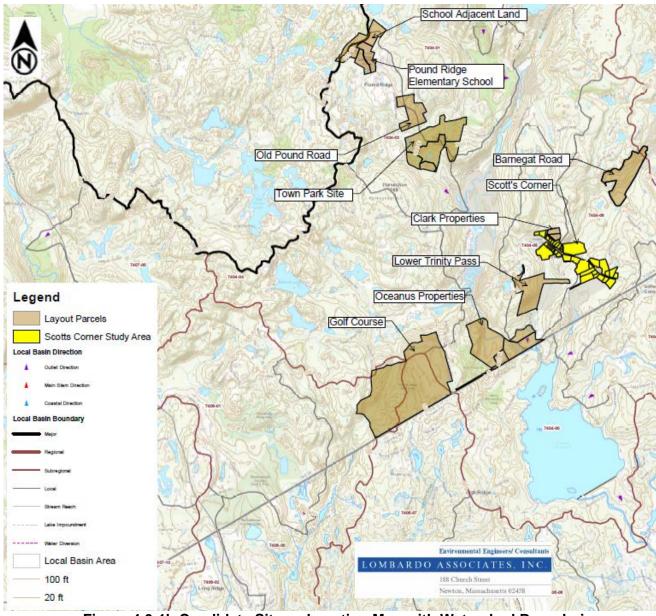


Figure 4.0-1b Candidate Sites - Location Map with Watershed Boundaries

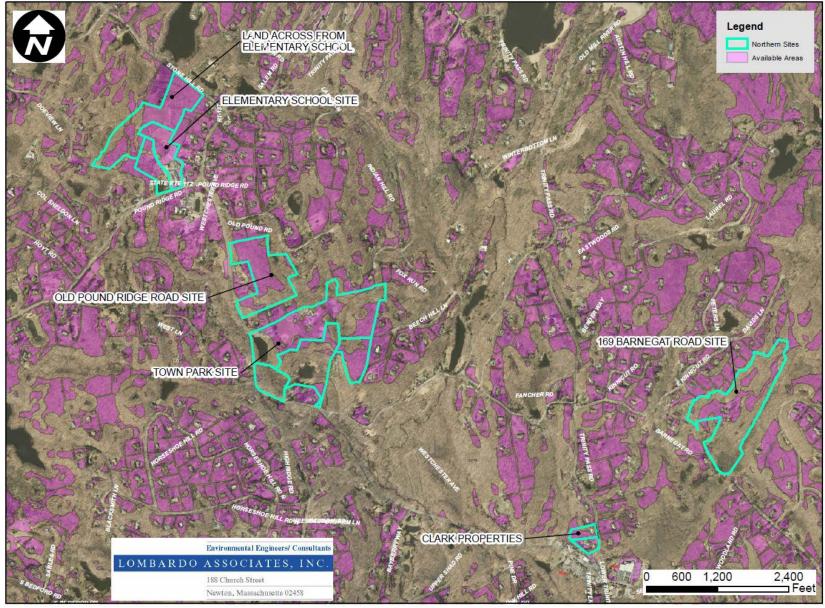


Figure 4.0-2 Available Area Map - Northern Sites

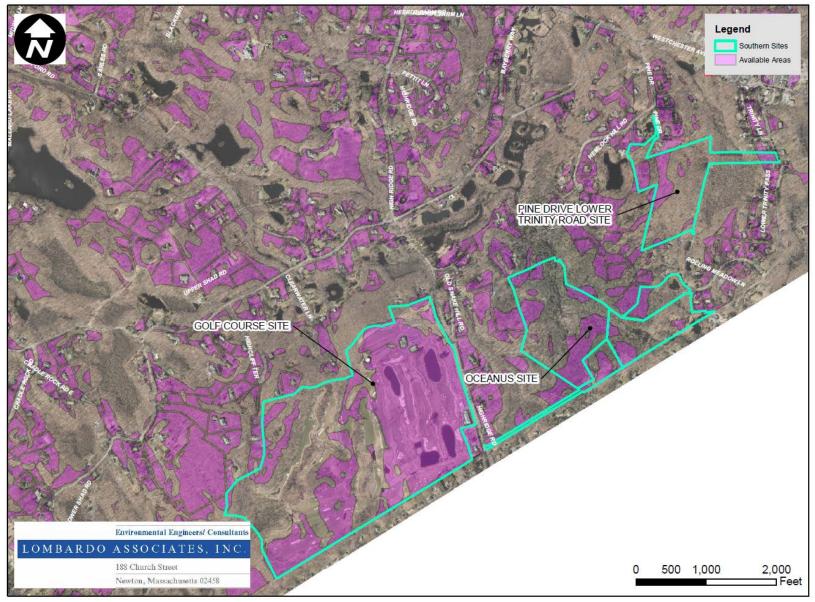


Figure 4.0-3 Available Area Map – Southern Sites

4.1 TOWN PARK SITE

The Town Park site consists of six parcels, listed below, located off Westchester Avenue just north of Town offices. The parcels are owned by the Town of Pound Ridge, and serve as a municipal park and recreation area, with swimming pools, tennis and basketball courts, and walking trails. The Town Recreation Department is located on the Town Park site. Parcel information according to the town of Pound Ridge is as follows:

Parcel #: 9820-1
Parcel #: 9820-2.2
Parcel #: 9820-8
Parcel #: 9820-147
Parcel #: 9820-153

Table 4.1-1 presents the Town Park Site percolation test and Test Pit results that were provided by the WC DoH.

Table 4.1-1 Town Park Perc Test & Depth to Bedrock / GW Data

Pound Ridge Town Park Perc. Test Results					
Perc. Test #	Perc. Rate (min./in.)				
Α	DNP				
В	DNP				
С	0.33				
D	24				
E	8.7				
G	3.3				
Н	5.7				
I	3.3				
J	8				
K	10				
L	30				
M	4.9				
N	20				
0	4.7				
Р	4.7				
Q	6.3				

Pound Ridge Town Park Test Pit Summary						
Test Pit#	Depth to Bedrock/GW					
DH1	84" Seepage					
DH 2	-					
DH 3	72" Seepage					
DH 4	57" Seepage					
DH 5	45" Seepage					
DH 6	-					
DH 7	80" Shale					
DH 8	-					
DH 9	44" Seepage					
DH 10	55" Seepage					
DH 11	-					
DH 12	-					
DH 13	36" Seepage					
DH 14	71" Seepage					

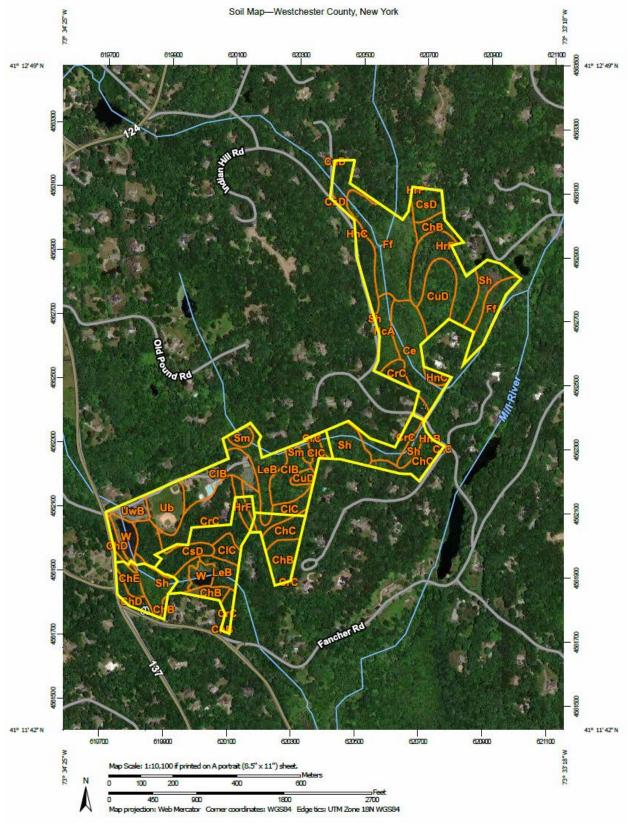


Figure 4.1-1 Town Park Soils Map

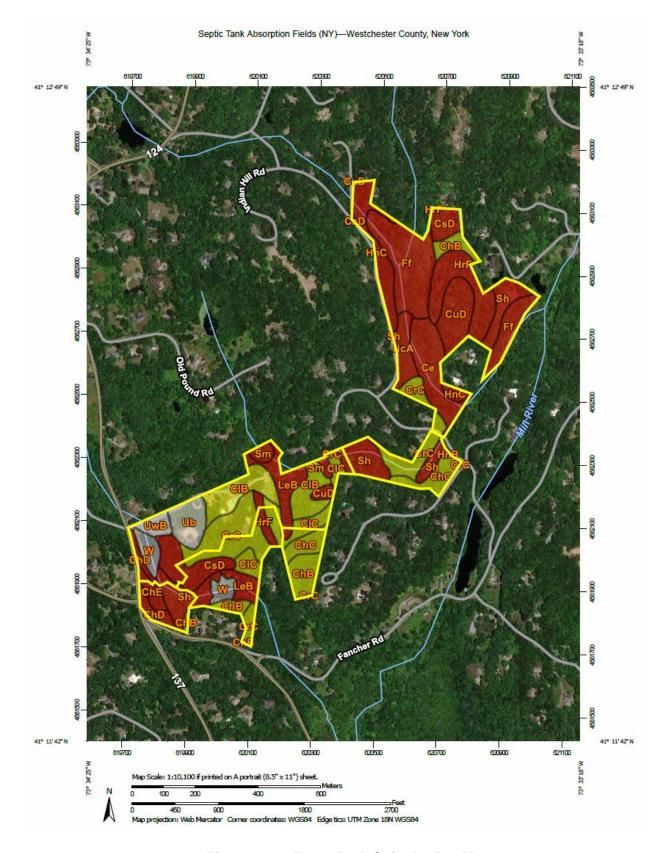


Figure 4.1-2 Town Park Soils Rating Map

Soils Description

- ChB Charlton Fine Sandy Loamy, 3 to 8 percent slopes
- ChC Charlton Fine Sandy Loam, 8 to 15 percent slopes
- CIB Charlton Fine Sandy Loamy, 3 to 8 percent slopes, very stony
- CIC Charlton Fine Sandy Loamy, 3 to 15 percent slopes, very stony
- CrC Charlton-Chatfield complex, 0 to 15 percent slopes, very stony

Charlton fine sandy loam

1. Typical profile

Ap - 0 to 7 inches: fine sandy loam

Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam

2. Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

Charlton-Chatfield complex

1. Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 4 inches: fine sandy loam

Bw - 4 to 27 inches: gravelly fine sandy loam C - 27 to 65 inches: gravelly fine sandy loam

2. Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

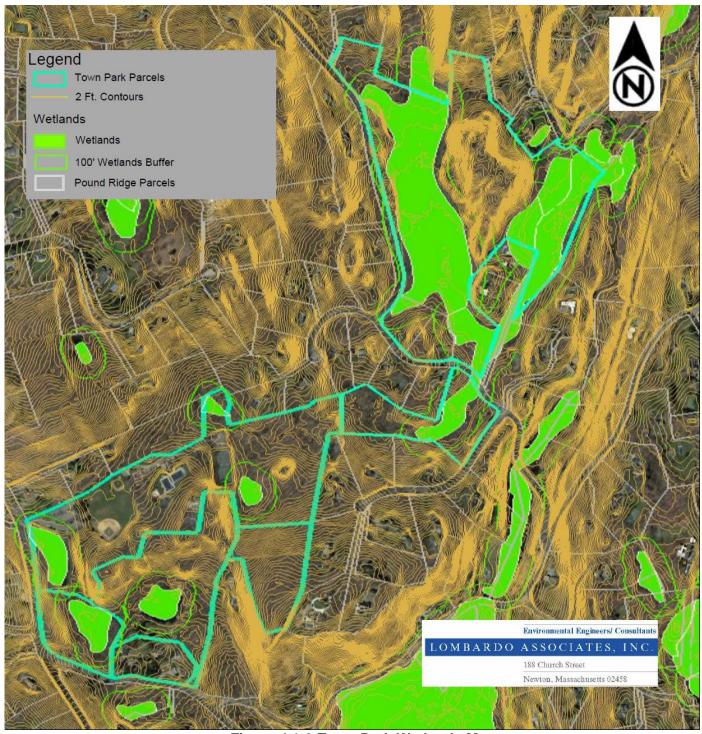


Figure 4.1-3 Town Park Wetlands Map

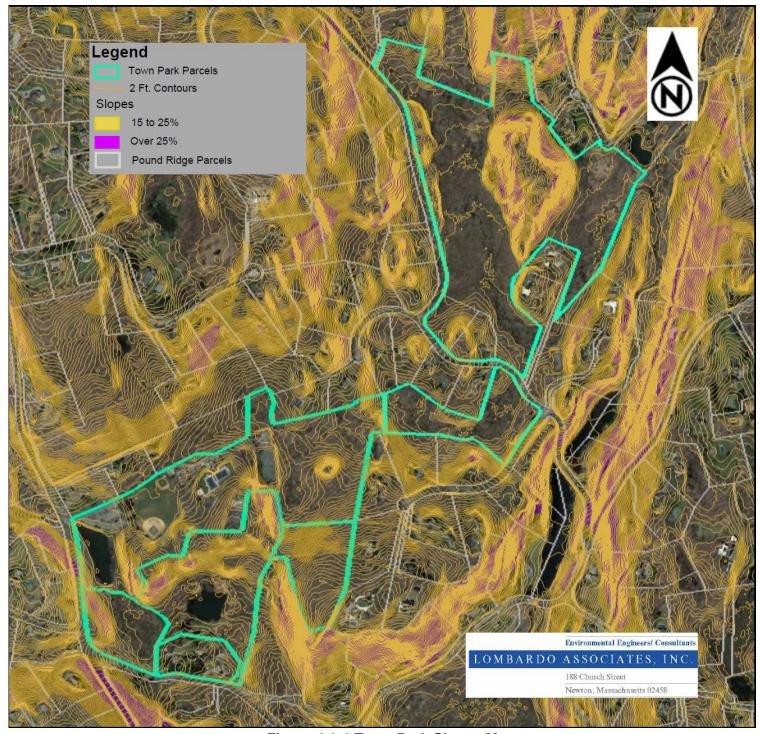


Figure 4.1-4 Town Park Slopes Map

Table 4-1-2 Town Park Test Pit Records

	Pound Ridge Town Park Test Pit Records													
TP Depth	TP 1	TP 2	TP 3	TP 4	TP 5	TP 6	TP 7	TP 8	TP 9	TP 10	TP 11	TP 12	TP 13	TP 14
G.L.	4" Top Soil	4" Top Soil	4" Top Soil	6"	4" Top Soil	4" Top Soil	4" Top Soil	4" Top Soil	10" Top Soil	10" Top Soil	4" Top Soil	10" Top Soil	10" Top Soil	4" Top Soil
6"														
12"	Sandy Loam							Sandy Loam				Sandy		
18"		Sandy Loam										Loam; 30"		
24"							Sandy Loam					Roots	Sandy Loam;	
30"				Sandy Loam				Mixed Sand	Sandy Loam; 44" Seepage				Seepage @ 36" to 48"	Sandy Loam
36"			Fine Sandy Loam					pocket - runs 24"						w/ decayed rock
42"					Wet Sandy			24		Sandy Loam;				TOCK
48"	Compact				Loam w/ Cobbles; 45"	Sandy Loam; 50" Roots				55" Seepage	Fine Sandy Loam			
54"	Sandy Loam				Seepage								Silty Clay	
60"		Mixed Sands w/ decayed		57"			Compact Coarse Sand					Mixed		
66"		rock		Seepage - Mixed			w/ decayed rock		Silty Clay			Sands		
72"				Sands w/ decayed				Sandly Loam	,,				Sandy Loam	71" Seepage
78"			Seepage	rock									Janay 200111	72 000,000
84"	Seepage			Pit Bottom			80" Shale		82" Sandy Loam					Pit Bottom
90"	Pit Bottom		Pit Bottom						22 23ay 20am	Pit Bottom				
96"		94" Pit Bottom			Pit Bottom	92" Pit Bottom		92" Pit Bottom	92" Pit Bottom		Pit Bottom	Pit Bottom	Pit Bottom	

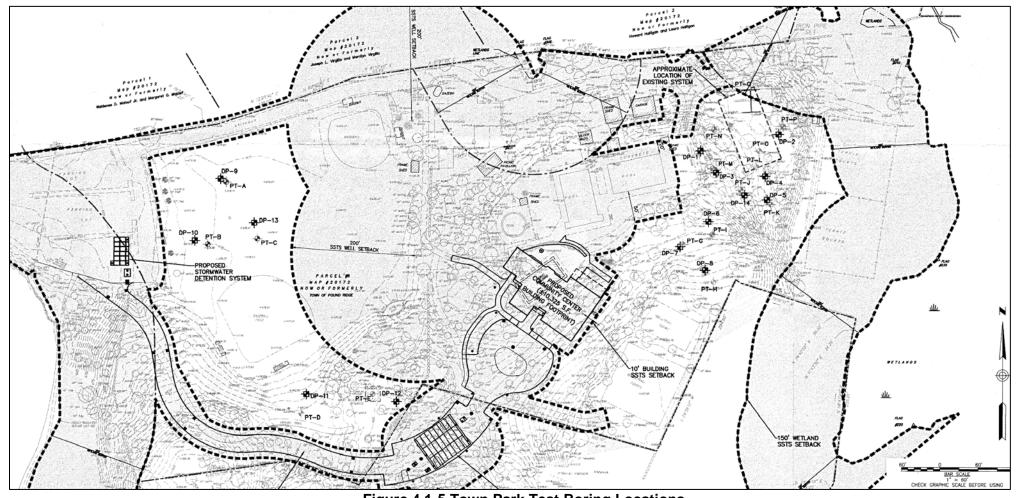


Figure 4.1-5 Town Park Test Boring Locations

4.2 PINE DRIVE - LOWER TRINITY PASS

The candidate site consists of one parcel, listed as 9320-28 according to the Pound Ridge Assessors Office. The parcel is a vacant, mostly wooded residential lot owned by CH State Holdings LLC, and is surrounded by occupied residential lots on Lower Trinity Pass and Hemlock Hill Road.

Table 4.2-1 presents the Lower Trinity Pass Site percolation test and Test Pit results that were provided by the Owner as performed by their engineer, Langan.

Table 4.2-1 Lower Trinity Pass Test Pit & Depth to Bedrock / GW Data

Lower Trinity Pass Test Pit Summary - Bibbo Associates								
Test Pit#	Test Pit Depth	Depth to Bedrock/GW						
DH 2	36"	Ledge @ 36"						
DH 3	126"	No BR/GW						
DH 4	120"	Ledge @ 84"						
DH 5	132"	GW @ 108"						
DH 6	120"	No BR/GW						
DH 7	126"	GW @ 120"						
DH 8	144"	GW @ 144"						
DH 9	144"	Seepage @ 48"						
DH 10	120"	GW @ 108"						
DH 11	78"	BR/GW @ 78"						
DH 12	N/A	N/A						
DH 13	120"	GW @ 114"						
DH 14	120"	No BR/GW						
DH 15	90"	BR @ 90"						
DH 16	108"	No BR/GW						
DH 17	132"	No BR/GW						
DH 18	132"	No BR/GW						

Lower Trinity Pass Test Pit Summary - Peak Construction				
Test Pit #	Depth to Bedrock/GW			
TP-A	No BR/GW			
TP-B	No BR/GW			
TP-C	Mottles @ ~60"			
TP-D	Mottles @ ~60"			
TP-E	No BR/GW			
TP-F	No BR/GW			



Figure 4.2-1 Lower Trinity Pass Soils Map

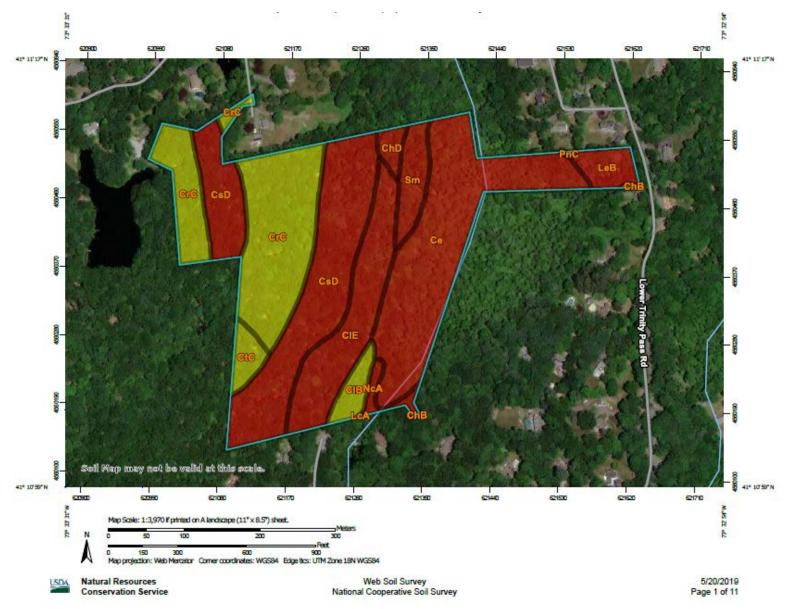


Figure 4.2-2 Lower Trinity Pass Soil Ratings Map

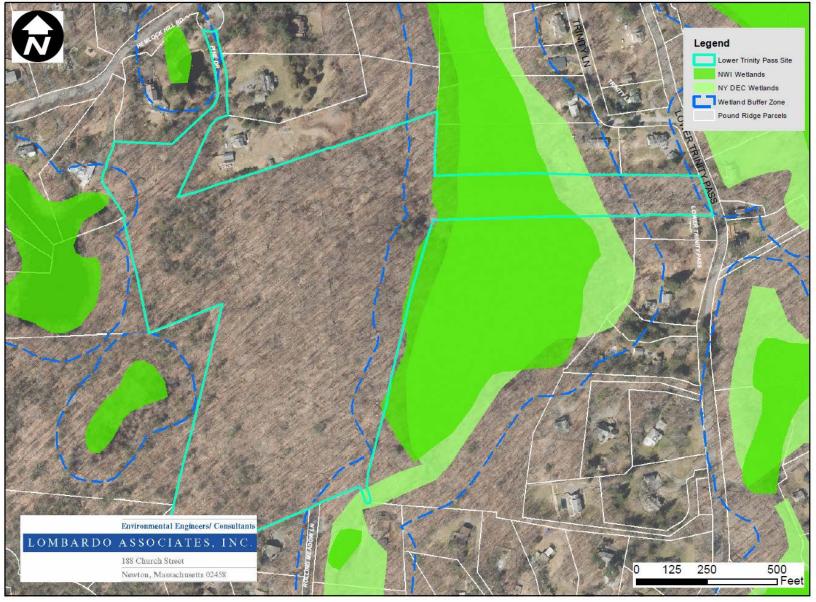


Figure 4.2-3 Lower Trinity Pass Wetlands Map

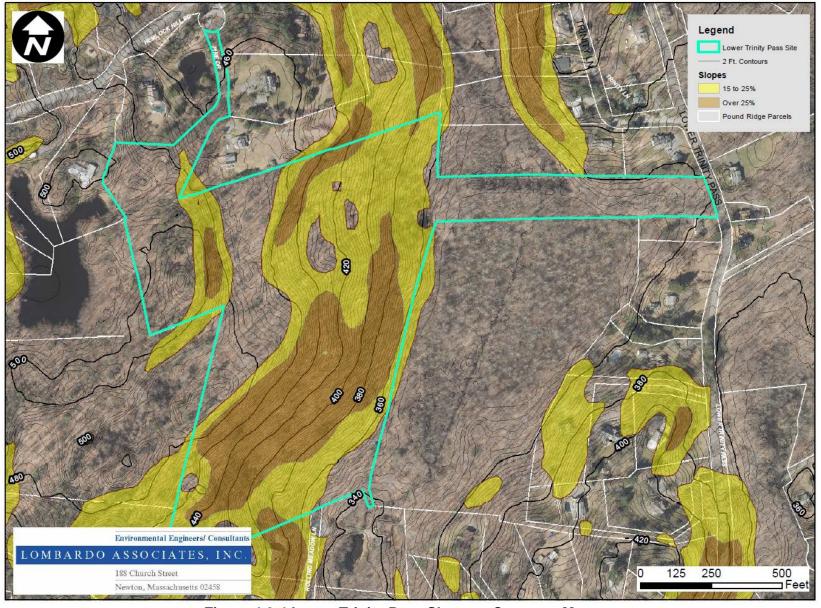


Figure 4.2-4 Lower Trinity Pass Slopes + Contours Map

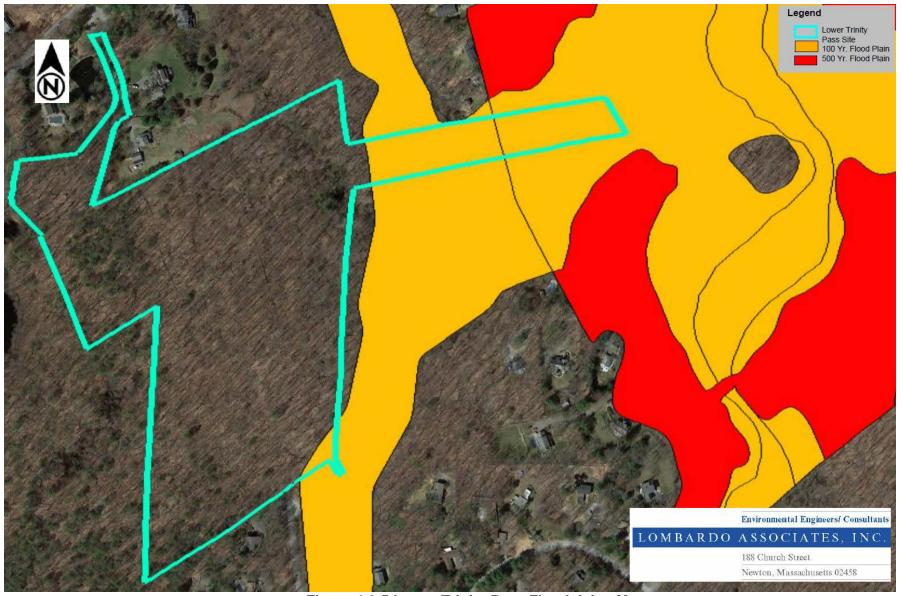


Figure 4.2-5 Lower Trinity Pass Floodplains Map

Table 4.2-2 Lower Trinity Pass Test Pit Records

Lower Trinity Pass Test Pit Records - Peak Construction								
TP Depth	TP-A	TP-B	TP-C	TP-D	TP-E	TP-F		
G.L. 6" 12"	16" Loam (10YR 3/3); common fine roots	16" Loam (10YR 2/2); common fine roots; 25% cobbles and boulders	20" Loam (10YR 2/2); common fine roots; 15% cobbles and	16" Loam (10YR 3/3); common fine roots; 30% boulders	(10YR 2/2); common fine roots; 15% cobbles and	20" Loam (10YR 3/3); common fine roots; 30% cobbles and		
18"	16"-36" sandy loam (10YR 4/6); 15% coarse	16"-40" sandy loam (10YR 3/6); 20% coarse gravel and cobbles	boulders	16"-36" sandy loam (10YR 5/8); 10% coarse gravel and cobbles	boulders	boulders		
24"			3/0); 20%			20"-40" sandy loam		
30"						(10YR 5/8); 10% coarse		
36"	gravel and cobbles		coarse gravel and cobbles			gravel and cobbles		
42"								
48"	36-96" loamy sand (5 YR 5/2); 60% cobbles and boulders; Pit Bottom @ 96"	40"-96" Loamy Sand (5YR 6/2); 60% cobbles and boulders; Pit Bottom @ 96"	40"-90" Loamy Sand (5YR 6/2); 40% cobbles and boulders; Mottling @ ~60", Pit Bottom @ 90"	36-96" Ioamy sand (5 YR 5/2); 20% cobbles and boulders; Mottling @ ~60"; Pit Bottom @ 96"	cobbles and boulders; Pit Bottom @ 90"	40"-84" Loamy Sand		
54"						(5YR 6/2); 75% cobbles		
60"						and boulders;		
66"						Pit Bottom		
72"						@ 84"		
78"								
84"								
90"								
96"								

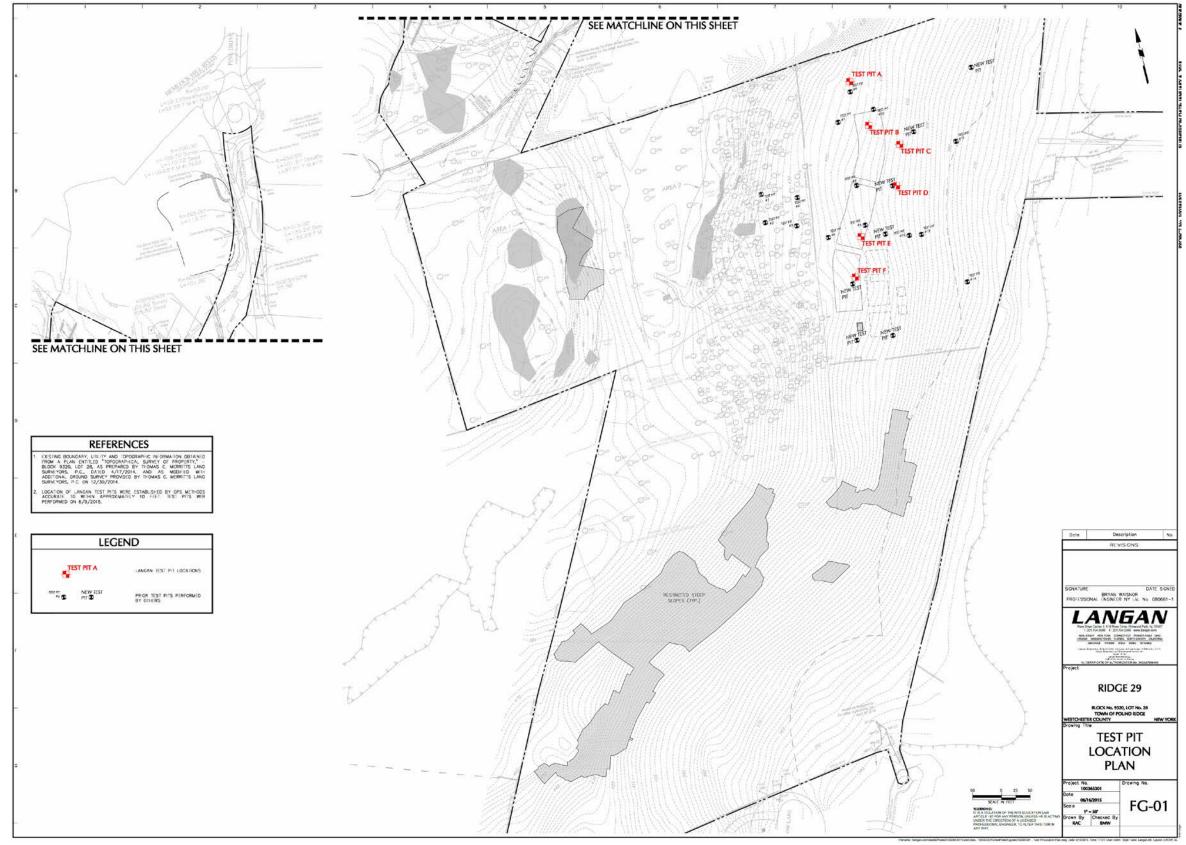


Figure 4.2-6 Lower Trinity Pass Test Pit Locations Map

4.3 OCEANUS

The candidate site consists of up to 11 parcels which are vacant and mostly wooded owned by Oceanus Navigation Corp Ltd, and is surrounded by occupied residential lots on Lower Trinity Pass and Rolling Meadows Road.

Table 4.3-1 presents the Oceanus Site percolation test and Test Pit results that are on the Site drawings that were submitted to the Pound Ridge Planning Board.

Table 4.3-1 Oceanus Site Percolation Test and Test Pit Summary

	Pound Ridge -						
	Oceanus Site Perc. Test Results						
Perc.	Perc. Rate						
Test#	(min./in.)						
TP-1-1	9						
TP-1-2	15						
TP-1-3	9.33						
TP-2-1	15						
TP-2-2	10.33						
TP-2-3	15						
TP-3-1	6.67						
TP-3-2	11.67						
TP-3-3	4.67						
TP-5-1	15						
TP-5-2	16.5						
TP-5-3	6						
TP-6-1	6						
TP-6-2	5.33						
TP-6-3	5.67						
TP-7-1	8.33						
TP-7-2	7						
TP-7-3	6.33						
TP-8-1	12.33						
TP-8-2	6.33						
TP-8-3	7						
TP-9-1	4.33						
TP-9-2	7						
TP-9-3	16.5						
TP-10-1	4						
TP-10-2	13						
TP-10-3	4						
TP-12-1	4						
TP-12-2	9.67						
TP-12-3	8.67						
TP-13-1	18						
TP-13-2	10						
TP-13-3	8.67						
TP-14-1	6.33						
TP-14-2	6.67						
TP-14-3	6.33						
TP-14-4	8.33						

Pound Ridge - Oceanus Test Pit Results Summary						
Test Pit#	Depth to Bedrock/GW					
DH 1-1	Bedrock @ 66"					
DH 1-2	Bedrock @ 66"					
DH 1-3	Bedrock @ 72"					
DH 2-1	Bedrock @ 60"					
DH 2-2	Bedrock @ 72"					
DH 2-3	Bedrock @ 60"					
DH 3-1	Bedrock @ 60"					
DH 3-2	Bedrock @ 66"					
DH 3-3	Bedrock @ 60"					
DH 5-1	Bedrock @ 72"					
DH 5-2	Bedrock @ 72"					
DH 5-3	Bedrock @ 78"					
DH 6-1	Bedrock @ 78"					
DH 6-2	Bedrock @ 60"					
DH 6-3	Bedrock @ 60"					
DH 7-1	No Bedrock/GW					
DH 7-2	No Bedrock/GW					
DH 7-3	No Bedrock/GW					
DH 8-1	Bedrock @ 60"					
DH 8-2	Bedrock @ 66"					
DH 8-3	Bedrock @ 66"					
DH 9-1	Bedrock @ 66"					
DH 9-2	Bedrock @ 72"					
DH 9-3	Bedrock @ 72"					
DH 10-1	No Bedrock/GW					
DH 10-2	No Bedrock/GW					
DH 10-3	No Bedrock/GW					
DH 12-1	No Bedrock/GW					
DH 12-2	No Bedrock/GW					
DH 12-3	No Bedrock/GW					
DH 13-1	Bedrock @ 60"					
DH 13-2	Bedrock @ 60"					
DH 13-3	Bedrock @ 60"					
DH 14-1	Bedrock @ 60"					
DH 14-2	Bedrock @ 66"					
DH 14-3	Bedrock @ 54"					



Figure 4.3-1 Oceanus Soils Map

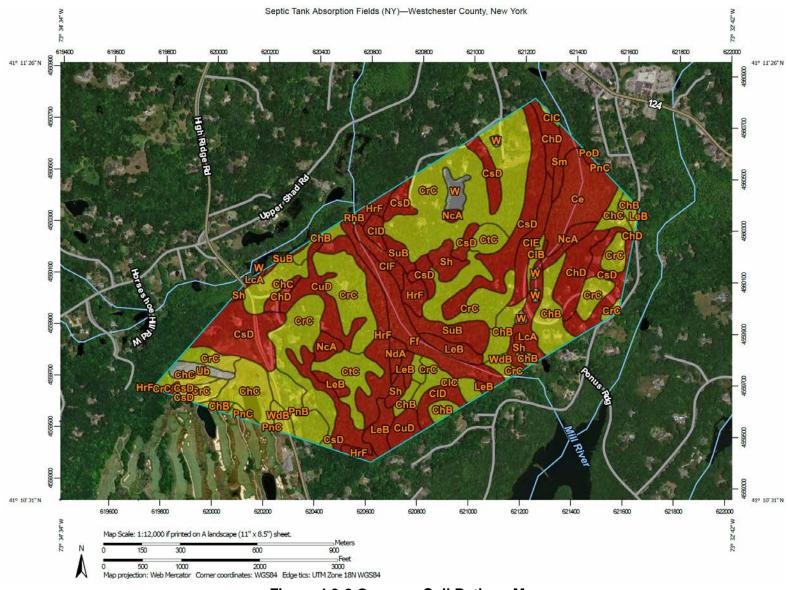


Figure 4.3-2 Oceanus Soil Ratings Map

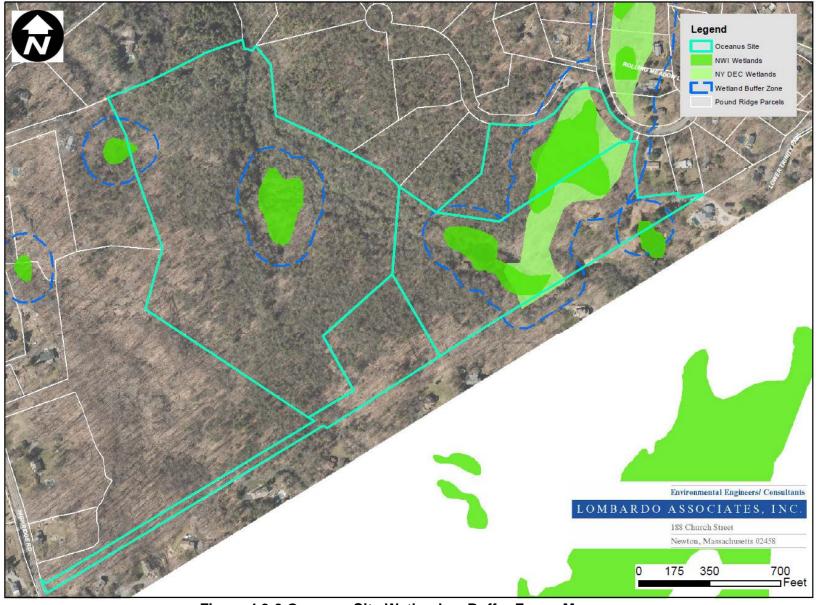


Figure 4.3-3 Oceanus Site Wetlands + Buffer Zones Map

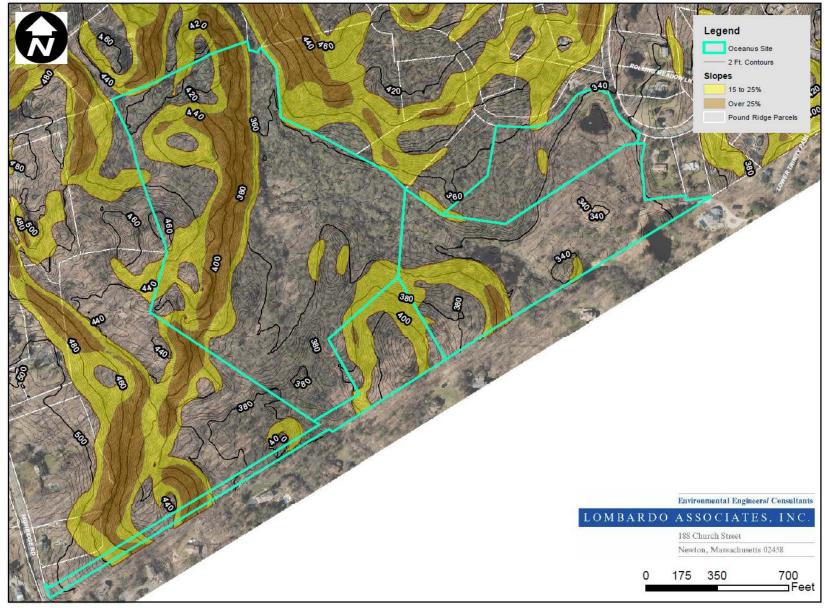


Figure 4.3-4 Oceanus Site Slopes + Contours Map

Table 4.3-2 Oceanus Site Test Pit Summary 1

					Pound Ridge	Oceanus Site	Test Pit Reco	rds				
Hole Depth	DH 1-1	DH 1-2	DH 1-3	DH 2-1	DH 2-2	DH 2-3	DH 3-1	DH 3-2	DH 3-3	DH 5-1	DH 5-2	DH 5-3
G.L. 6"	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil					
12" 18" 24"	Moderately Compacted Medium Sandy Loam	Moderately Compacted Medium Sandy Loam	Moderately Compacted	Moderately Compacted Medium Sandy Loam	Moderately Compacted Medium Sandy Loam	Moderately Compacted Medium Sandy Loam	Moderately Compacted Sandy Loam	Moderately Compacted Medium Sandy Loam	Moderately Compacted Medium Sandy Loam	Moderately Compacted	Moderately Compacted	Moderately Compacted
30" 36" 42"	Moderately	Moderately	Medium Sandy Loam	Moderately Compacted Medium	Moderately Compacted	Moderately Compacted Medium	Moderately Compacted Medium	Moderately Compacted	Moderately Compacted Medium Coarse	Medium Sandy Loam	Medium Sandy Loam	Medium Sandy Loam
48" 54" 60"	Compacted Medium Fine Sands	Compacted Medium Fine Sands	Moderately Compacted Medium Fine Sands	Rock / Pit	Medium Fine Sands w/ Some Stone	Rock / Pit	Sands w/ Stone Rock / Pit Bottom	Coarse Sands w/ Some Gravel	Sands w/ Stone Rock / Pit Bottom	Moderately Compacted Medium Fine Sands	Moderately Compacted Medium Fine Sands	Moderately Compacted Medium
72"	Rock / Pit Bottom	Rock / Pit Bottom	Rock / Pit Bottom	bottom	Rock / Pit Bottom	Dottom	Dottom	Rock / Pit Bottom	bottom	Rock / Pit Bottom	w/ Stones Rock / Pit Bottom	Fine Sands w/ Stones
84"												Bottom

Table 4.3-3 Oceanus Site Test Pit Summary 2

	Pound Ridge Oceanus Site Test Pit Records											
Hole Depth	DH 6-1	DH 6-2	DH 6-3	DH 7-1	DH 7-2	DH 7-3	DH 8-1	DH 8-2	DH 8-3	DH 9-1	DH 9-2	DH 9-3
G.L.	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil
6"												
12"				Moderately	Moderately	Moderately	Moderately	Moderately	Moderately	Moderately	Moderately	
18"	Moderately	Moderately	Moderately	Compacted Medium	Compacted Medium	Compacted Medium	Compacted Medium	Compacted Medium	Compacted Medium	Compacted Medium	Compacted Medium	Moderately Compacted
24"	Compacted Medium	Compacted Medium	Compacted Medium	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Medium Sandy Loam
30"	Sandy Loam	Sandy Loam	Sandy Loam									
36"				Moderately Compacted			Moderately					
42"	Moderately	Moderately	Moderately	Coarse Sands w/			Compacted Medium	Moderately Compacted	Moderately Compacted	Moderately Compacted	Moderately	
48"	Compacted Medium	Compacted Medium	Compacted Medium	Gravel	Moderately	Moderately	Fine Sands	Medium Fine Sands	Medium Fine Sands	Medium Fine Sands	Compacted Medium	Moderately Compacted
54"	Sands	Sands	Fine Sands		Compacted Medium	Compacted Medium					Fine Sands	Medium Fine Sands
60"	Rock / Pit Bottom	Rock / Pit Bottom	w/ Stones		Fine Sands	Fine Sands	Rock / Pit Bottom					
66"			Rock / Pit Bottom	Moderately Compacted				Rock / Pit Bottom	Rock / Pit Bottom	Rock / Pit Bottom		
72"				Medium Sands							Rock / Pit Bottom	Rock / Pit Bottom
78"												
84"				Pit Bottom	Pit Bottom	Pit Bottom						

Table 4.3-4 Oceanus Site Test Pit Summary 3

	Pound Ridge Oceanus Site Test Pit Records											
Hole Depth	DH 10-1	DH 10-2	DH 10-3	DH 12-1	DH 12-2	DH 12-3	DH 13-1	DH 13-2	DH 13-3	DH 14-1	DH 14-2	DH 14-3
G.L. 6"	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil	Top Soil
12" 18" 24"	Moderately Compacted	Moderately Compacted Medium Sandy Loam	Moderately Compacted Medium	Moderately	Moderately Compacted Medium	Moderately Compacted	Moderately Compacted Medium Sandy Loam					
30" 36" 42"	Sands w/ Some Stone	Moderately Compacted Medium Coarse Sands w/	Fine Sands w/ Some Stone	Compacted Sands w/ Some	Fine Sands w/ Some Cobbles to Loose Compacted Medium Sands w/	Moderate- Loose Compacted Medium	Compacted Com	Moderately Compacted Medium	, Moderately Compacted	Moderately	Moderately Compacted Medium Fine Sands	
48" 54"		Some Gravel	Moderately		Madantali		Coarse Sands	Fine Sands	Fine Sands	Medium Fine Sands w/ Stone	Compacted Medium Fine Sands w/ Stone	Rock / Pit Bottom
60" 66"	Moderately Compacted Medium Fine Sands	Moderately Compacted	Compacted Medium Fine Sands Con	Moderately	Moderately Compacted Medium Fine Sands	Moderately Compacted	Rock / Pit Bottom	Rock / Pit Bottom		Rock / Pit Bottom	Rock / Pit Bottom	
72" 78"		Medium Fine Sands	w/ Some Silt	Medium Fine Sands		Fine Sands						
84"	Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom	Pit Bottom						

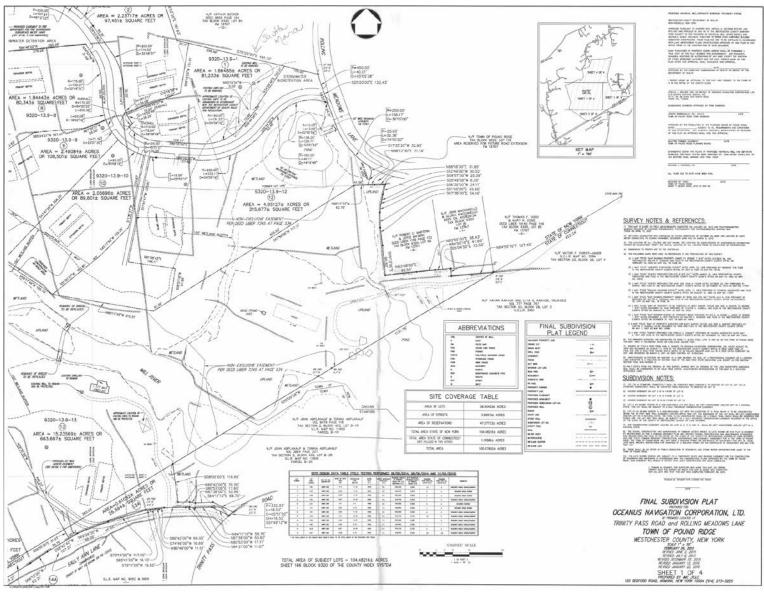


Figure 4.3-5 Oceanus Site Location Map 1

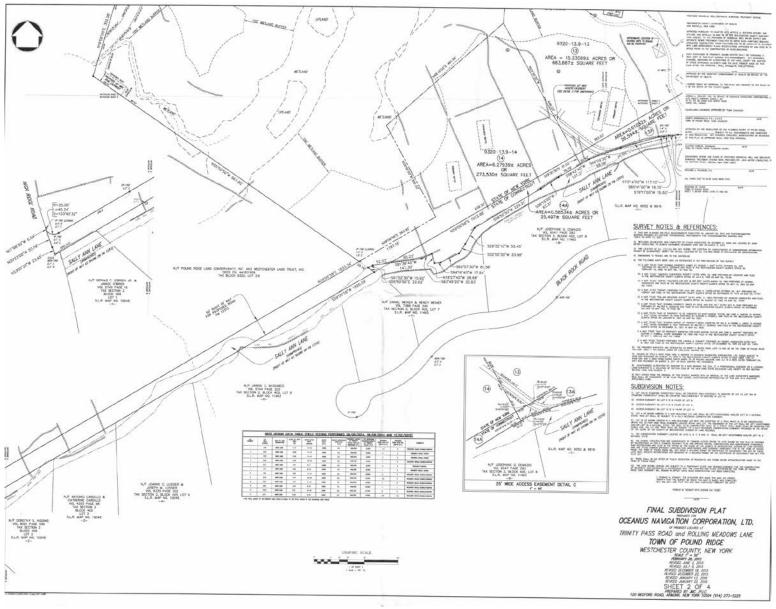


Figure 4.3-6 Oceanus Site Location Map 2

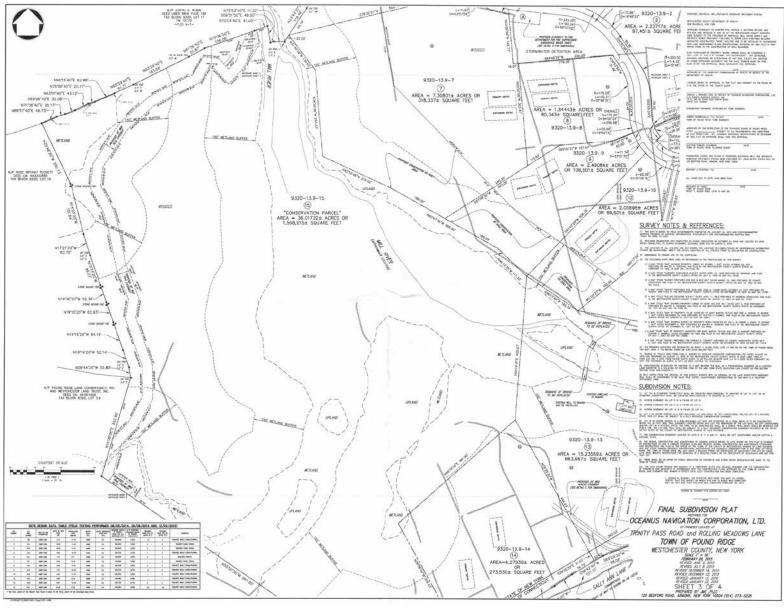


Figure 4.3-7 Oceanus Site Location Map 3

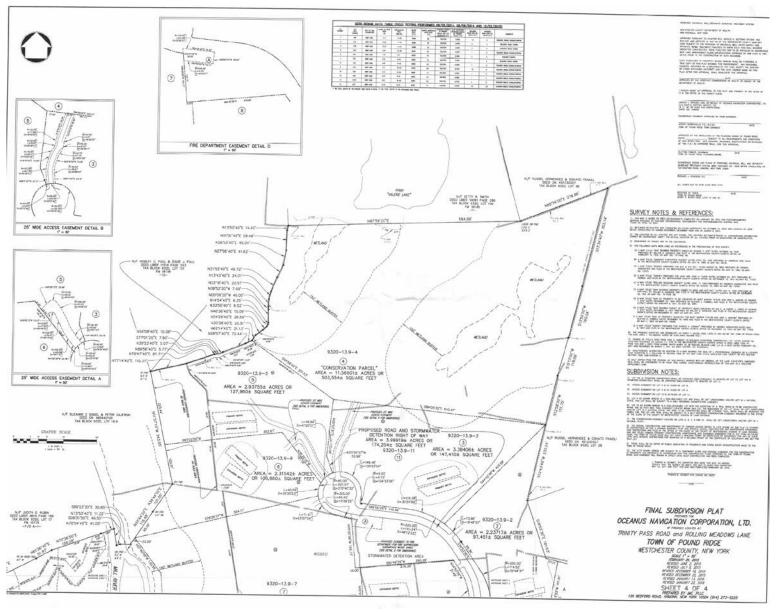


Figure 4.3-8 Oceanus Site Location Map 4

4.4 OLD POUND ROAD

The candidate site consists of one parcel, listed as 9820-16 according to the Pound Ridge Assessors Office and located adjacent to 7 Pound Road. The parcel is a vacant residential lot owned by David Kerr.

No portion of Old Pound Road lies within floodplain.

The following Test Pits and Percolation Test results were provided by the property Owner through their consultant Insite Engineering, Surveying & Landscape Architecture, P.C.

12 deep holes throughout the site and 6 preliminary percolation tests were performed. The majority of the deep test holes were 7' with no rock or groundwater encountered. Rock was encountered at 6' in a couple of the holes. The preliminary percolation tests indicated a perc rate at 10 min/in and under. Northern portion of the site was not tested.

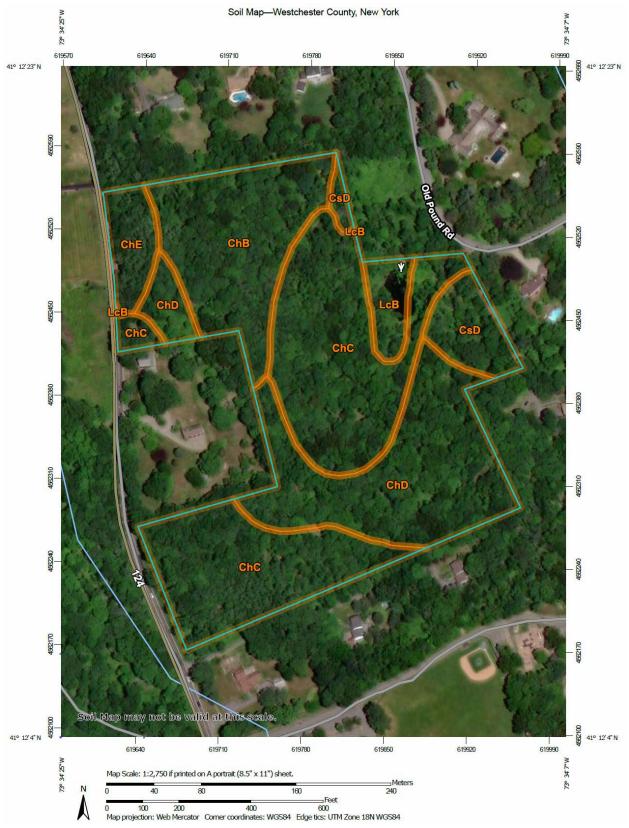


Figure 4.4-1 Old Pound Road Soils Map

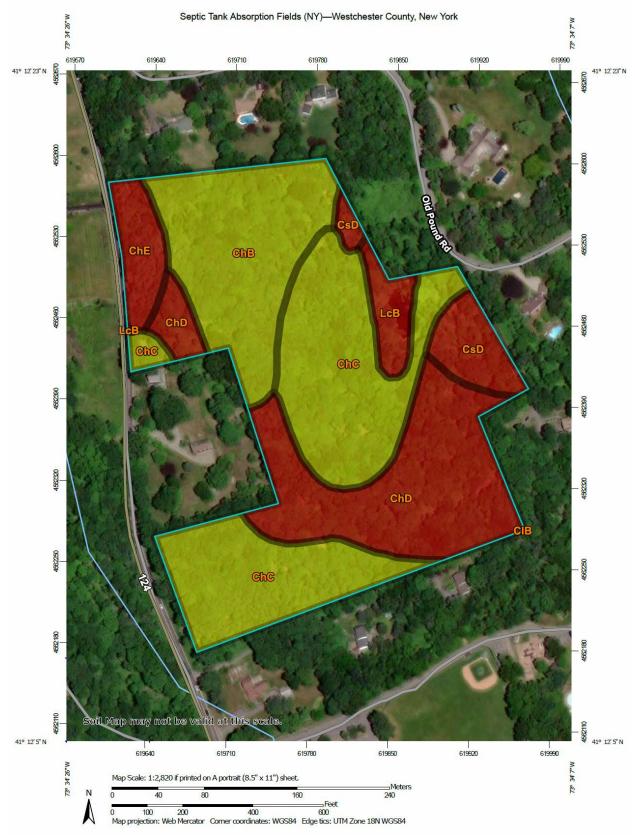


Figure 4.4-2 Old Pound Road Soils Rating Map

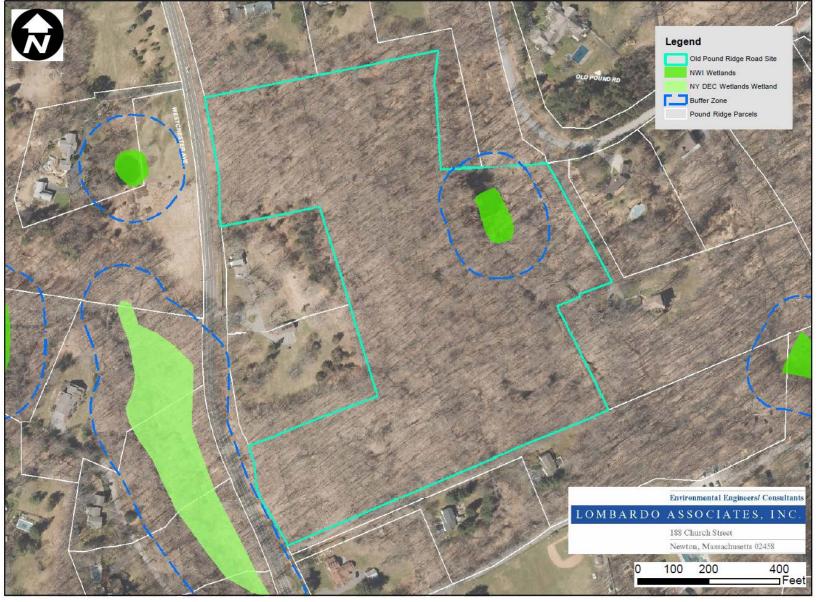


Figure 4.4-3 Old Pound Road Wetlands Map

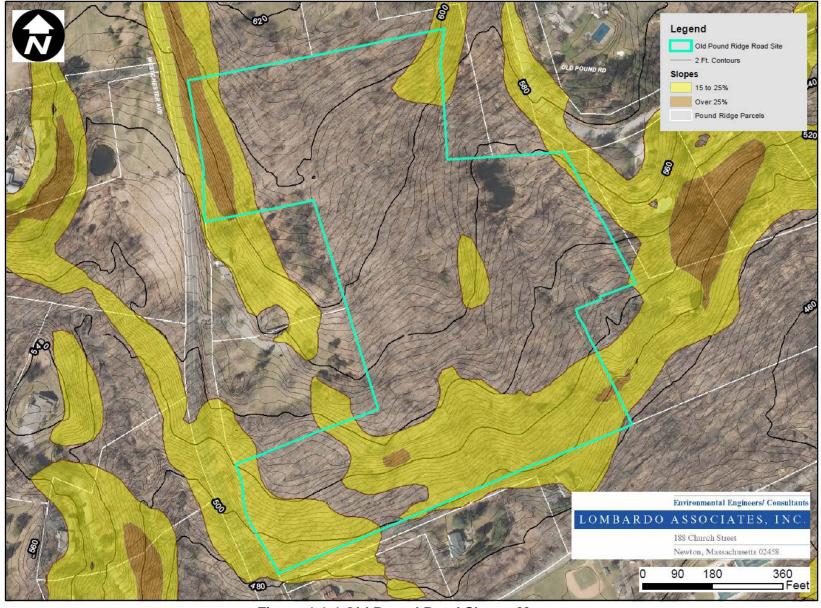


Figure 4.4-4 Old Pound Road Slopes Map

4.5 ELEMENTARY SCHOOL

The candidate site consists of two parcels, listed as 9816-46 & 9816-47 according to the Pound Assessors Office and located at 7 Pound Ridge Road. The parcel is the Pound Ridge Elementary School, owned by the Bedford Central School District. Information regarding the parcel has been collected below from Town of Pound Ridge Property Cards:

No portion of the Elementary School site lies within floodplain.

Table 4.5-1 Pound Ridge Elementary School Percolation Test and Test Pit Summary

Pound Ridge - Elementary School Site Perc. Test					
Perc. Test#	Perc. Rate (min./in.)				
PT-1A	7.7				
PT-2A	5.7				
PT-3A	7				
PT-4A	6.2				
PT-1	3				
PT-2	4				
PT-3	4				
PT-4	3				
PT-5	3				
PT-6	5				
PT-7	4				
PT-8	10				

Pound Ridge Elementary School Test Pit Results						
Test Pit#	Depth to Bedrock/GW					
TP-1A	Ledge @ 84"					
TP-2A	Ledge @ 72"					
TP-3A	No GW/Bedrock					
TP-1	No GW/Bedrock					
TP-2	No GW/Bedrock					
TP-3	No GW/Bedrock					
TP-4	GW @ 114"					
TP-5	No GW/Bedrock					
TP-6	GW @ 84"					
TP-7	No GW/Bedrock					
TP-8	GW & 96"					
TP-9	No GW/Bedrock					
TP-10	No GW/Bedrock					
TP-11	No GW/Bedrock					

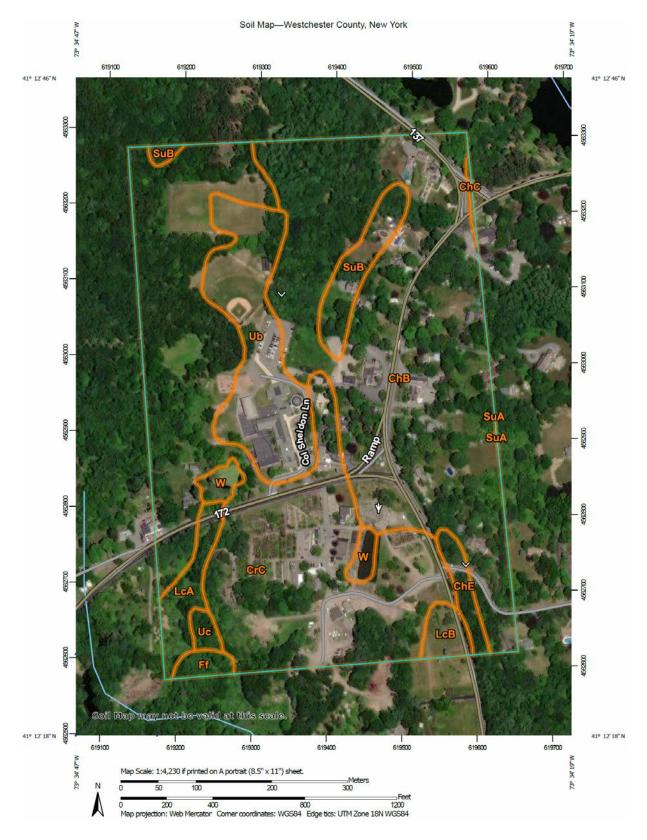


Figure 4.5-1 Elementary School Soils Map

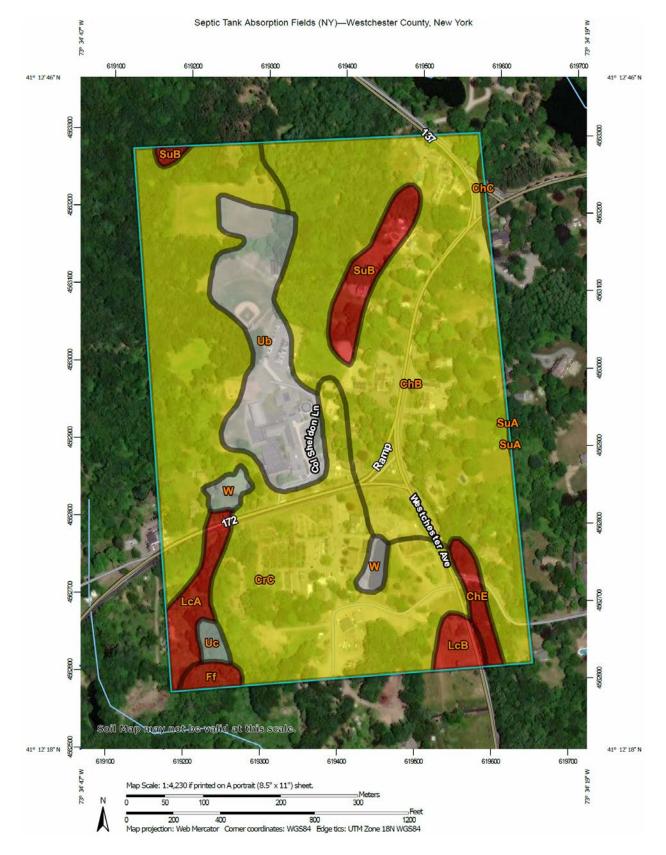


Figure 4.5-2 Elementary School Soil Ratings Map

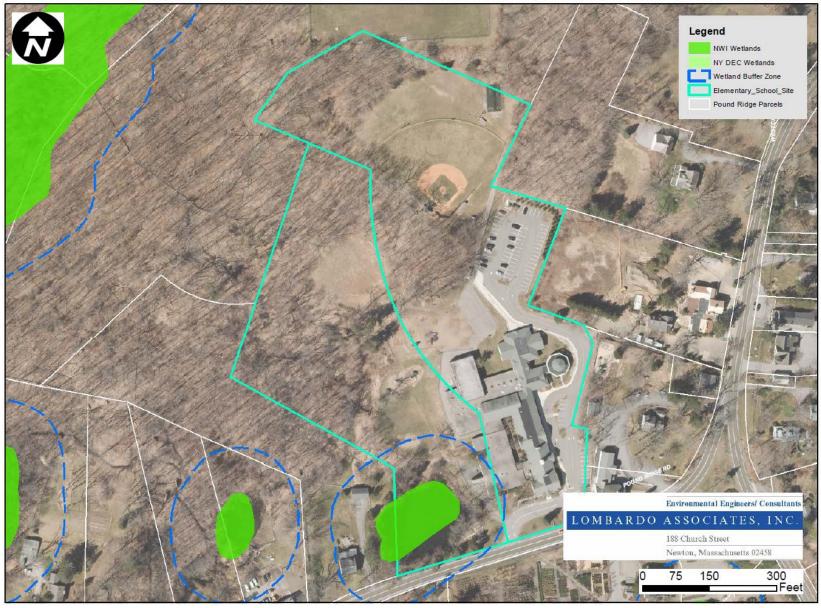


Figure 4.5-3 Elementary School Wetlands Map

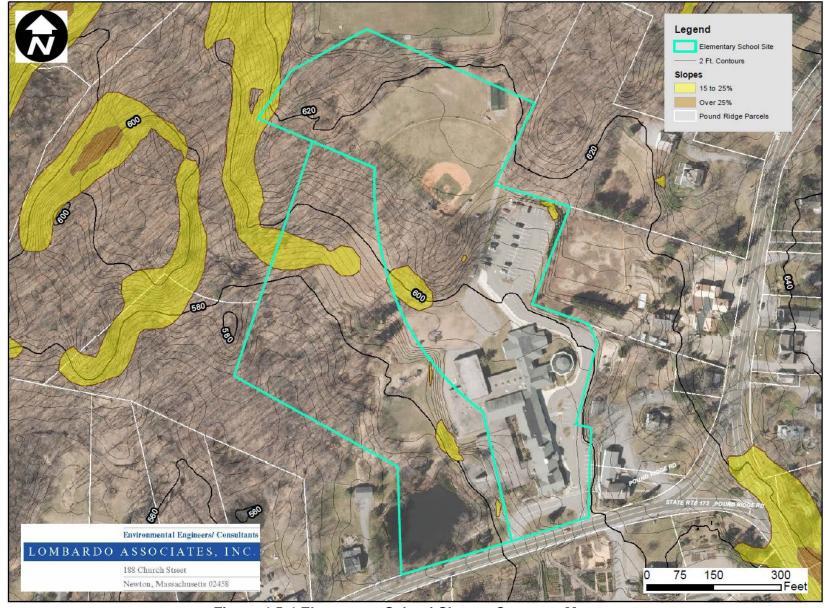


Figure 4.5-4 Elementary School Slope + Contours Map

Table 4.5-2 Pound Ridge Elementary School Test Pit Records

					Poun	d Ridge Ele	mentary 9	School Tes	t Pit Record	ds				
Hole Depth	TP-1	TP-2	TP-3	TP-4	TP-5	TP-6	TP-7	TP-8	TP-9	TP-10	TP-11	TP-1A	TP-2A	TP-3A
G.L. 6"	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots	Top Soil + Roots
12" 18" 24" 30" 36" 42"	Brown f- c Sand, Some Silt Brown / grey	Brown f c Sand and Silt, little f- c Gravel	Brown Silt, Some f c Sand	Brown Silt, little f	Brown Silt, little f-c Sand	Brown Silt, little f-c Sand	Brown Silt, little f- c Sand Grey Decomp . Rock	Brown Silt, f-c Sand	Brown Silt, little f-c Sand	Brown Silt, little f-c Sand	Brown Silt, little f-c Sand	Brown f- c Sand, trace Silt	Brown f-c Sand, trace Silt	Brown f-c Sand, some Silt
48" 54"	Sand, Some f- c Gravel, trace Silt		Sand, Some Silt, trace for Gravel			Brown/ grey Silt, Some f-c Sand, little	Pit Bottom		Brown/gr				Brown / grey Sand, Some f-c	Brown/
60" 66" 72"	Pit Bottom	Brown / grey Sand,	Pit Bottom	Brown / grey Sand, Some f-c	Brown / grey	f-c Gravel; 42" Mottling		Brown/ grey f-c Sand, some f- c Gravel, little Silt.	ey Sand, some f-c Gravel, litte Silt, Decomp. Rock	Brown / grey	Brown / grey Sand, some f-c	Brown /	Gravel, trace Silt Pit Bottom, Ledge	grey Sand, Some f-c Gravel, trace Silt
78"		little f- c Gravel, trace Silt	ttle f- trace Silt, Some Gravel, Cobbles City Hatte	cobbles		Sand, Some Silt, little f-c Gravel	Gravel, litte Silt, Decomp. Rock	Sand,	J	Decomp. Rock				
84"		Pit Bottom		114" GW, 120" Pit Bottom	96" Pit Bottom	84" GW, 102" Pit Bottom		96" GW, 96" Decomp. Rock, 102" Pit Bottom	90" Decomp. Rock, 90" Pit Bottom	96" Pit Bottom	Pit Bottom	Pit Bottom, Ledge		Pit Bottom

4.6 TOWN LAND ADJACENT TO SCHOOL

The candidate site consists of one parcel, listed as 9816-142, according to the Pound Ridge Assessors Office and located behind the Pound Ridge Elementary School. The parcel is a vacant lot owned by the Town.

No portion of the School Adjacent site lies within Floodplain.



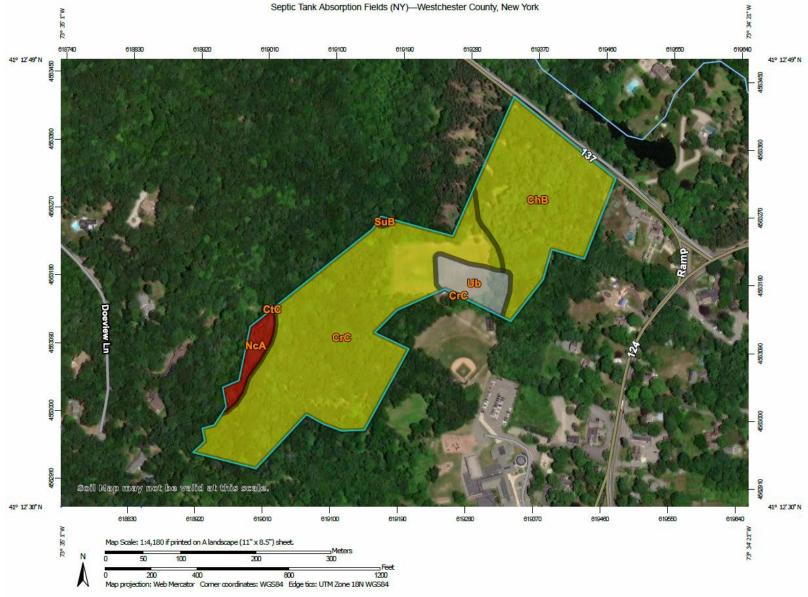


Figure 4.6-2 School Adjacent Land Soils Map

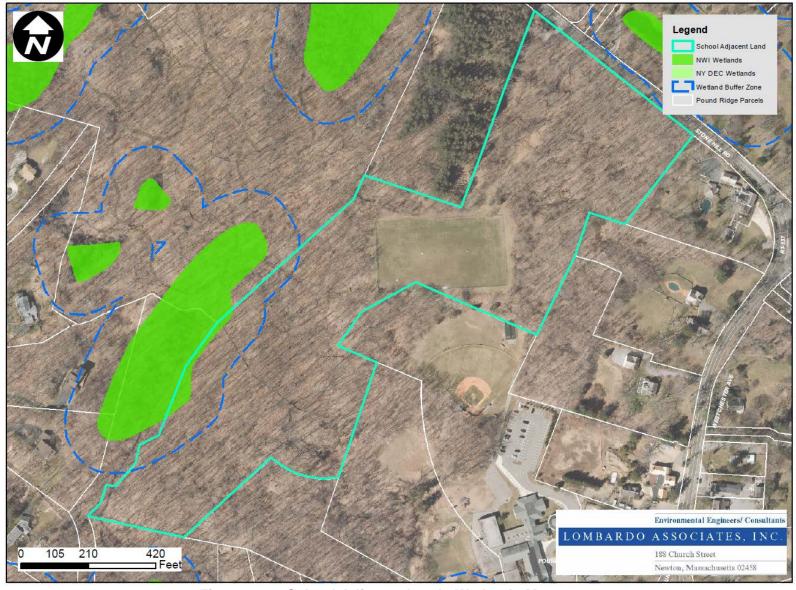


Figure 4.6-3 School Adjacent Land - Wetlands Map

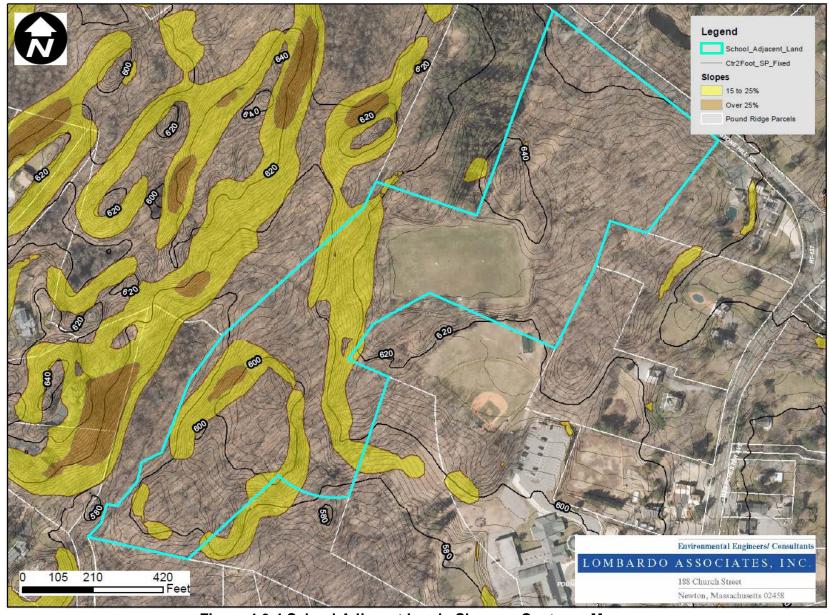


Figure 4.6-4 School Adjacent Land - Slopes + Contours Map

4.7 CLARK PROPERTY

The candidate site consists of two parcels, listed as 9454-16 & 9454-17 according to the Pound Ridge Assessors Office and located, respectively, at 12 (1.73 acres) and 16 (2.04 acres) Trinity Pass Road. The parcels are owned by Mary Clark.

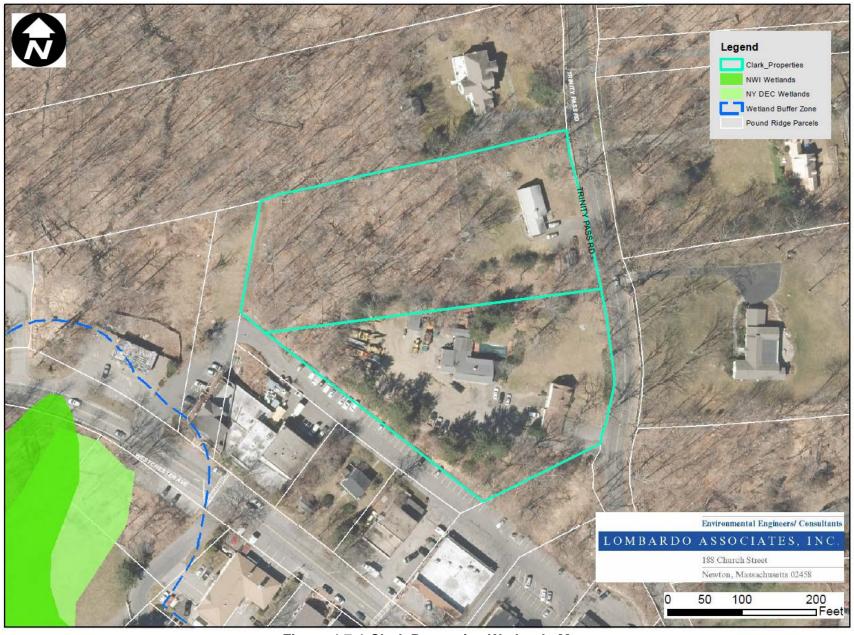


Figure 4.7-1 Clark Properties Wetlands Map

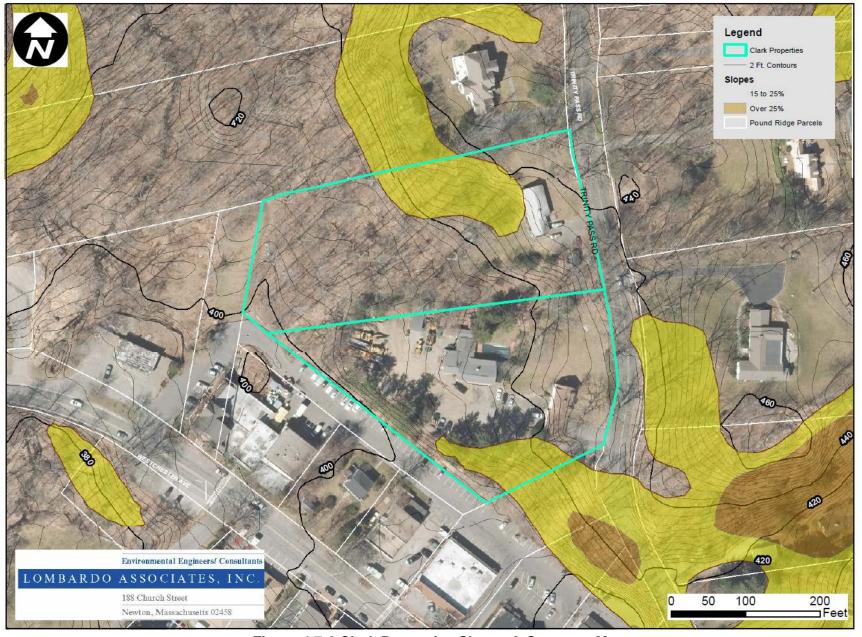


Figure 4.7-2 Clark Properties Slopes & Contours Map

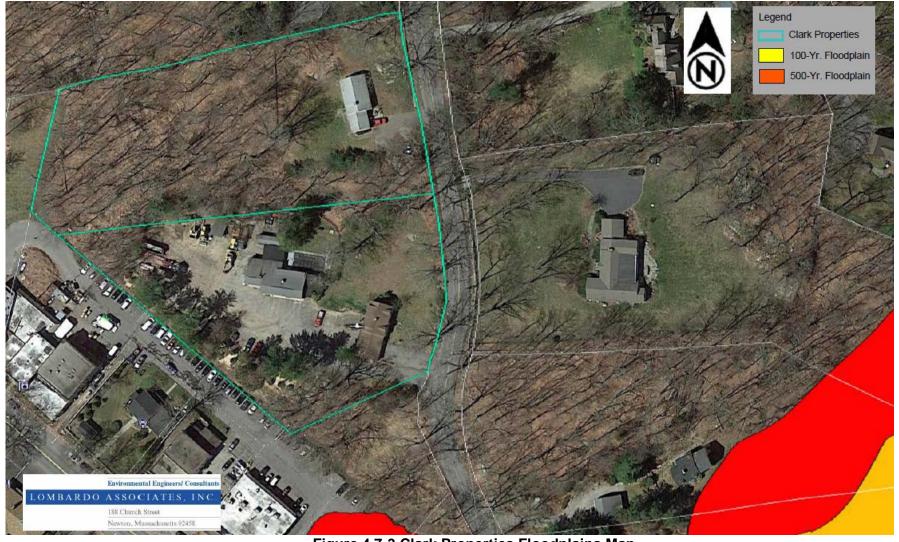


Figure 4.7-3 Clark Properties Floodplains Map

4.8 BARNEGAT ROAD SITE

The candidate site consists of one parcel, listed as 9457-12 according to the Pound Ridge Assessors Office and located at 169 (27.17 acres) Barnegat Road. The parcel is owned by Zinman Family LLC.

Table 4.8-1 presents Test Pits and Percolation Test results that was provided by the property Owner through their Engineer Kellard Sessions Consulting.

Table 4.8-1 Barnegat Road Test Pit Summary

Pound Ridge Barnegat Road Percolation Test Summary								
Percolation Test#	Percolation Test Depth	Percolation Rate (min./in.)						
PT 1-1	28"	5.3						
PT 1-2	28"	5.0						
PT 1-3	29"	4.0						
PT 1-4	28"	4.0						
PT 1-6	28"	4.3						
PT 2-2	30"	3.3						
PT 2-3	27"	3.6						
PT 2-4	28"	4.0						
PT 2-6	27"	4.3						
PT 2-7	28"	4.0						
PT 2-8	28"	3.3						
PT 2-9	29"	4						

Pound Ridge Barnegat						
Road Test Pit Summary						
Test Pit#	Depth to Bedrock/GW					
TP 1-1	Ledge @ 44"					
TP 1-2	Ledge @ 44"					
TP 1-3	Ledge @ 53"					
TP 1-4	Ledge @ 45"					
TP 1-6	Ledge @ 55"					
TP 1-7	Ledge @ 44"					
TP 1-8	Ledge @ 52"					
TP 2-2	Ledge @ 50"					
TP 2-3	Ledge @ 48"					
TP 2-4	Ledge @ 57"					
TP 2-5	Ledge @ 48"					
TP 2-6	Ledge @ 46"					
TP 2-7	Ledge @ 44"					
TP 2-8	Ledge @ 50"					
TP 2-9	Ledge @ 48"					
TP 11	BR @ 44"					
TP 12	BR @ 44"					
TP 13	BR @ 53"					
TP 16	BR @ 55"					
TP 17	BR @ 44"					
TP 18	BR @ 52"					
TP 19	BR @ 44"					
TP 22	BR @ 50"					
TP 23	BR @ 42"					
TP 24	BR @ 57"					
TP 25	BR @ 47"					
TP 26	BR @ 46"					
TP 27	BR @ 47"					
TP 28	BR @ 50"					
TP 29	BR @ 45"					



Scotts Corner Wastewater Management & Water Supply Study

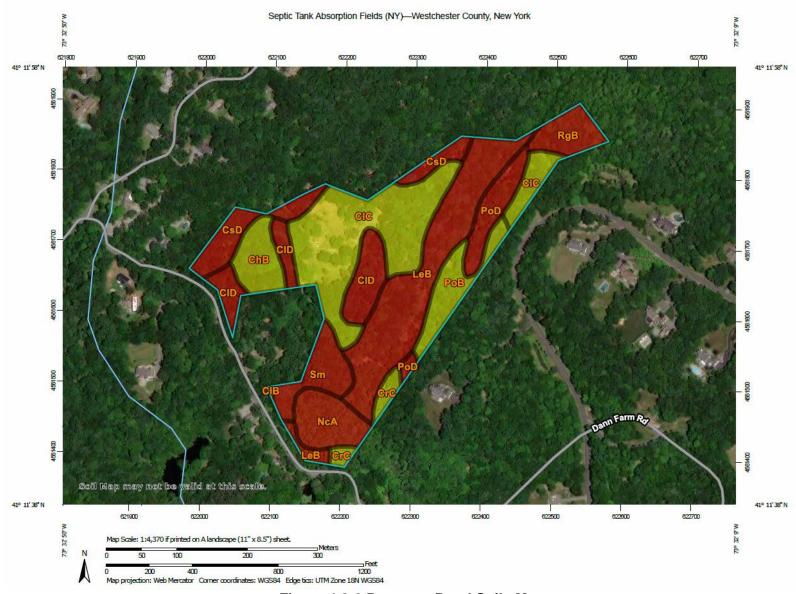


Figure 4.8-2 Barnegat Road Soils Map

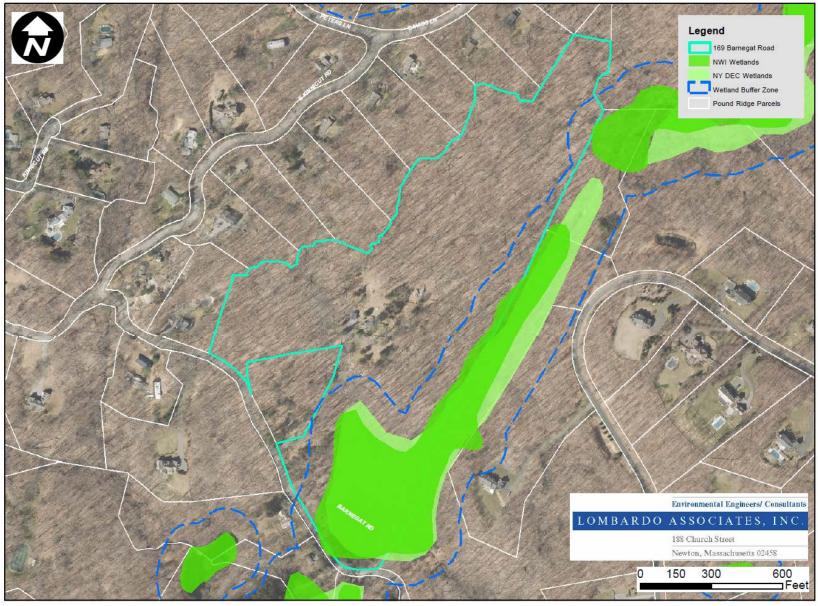


Figure 4.8-3 Barnegat Road Wetlands and Wetlands Buffer Map

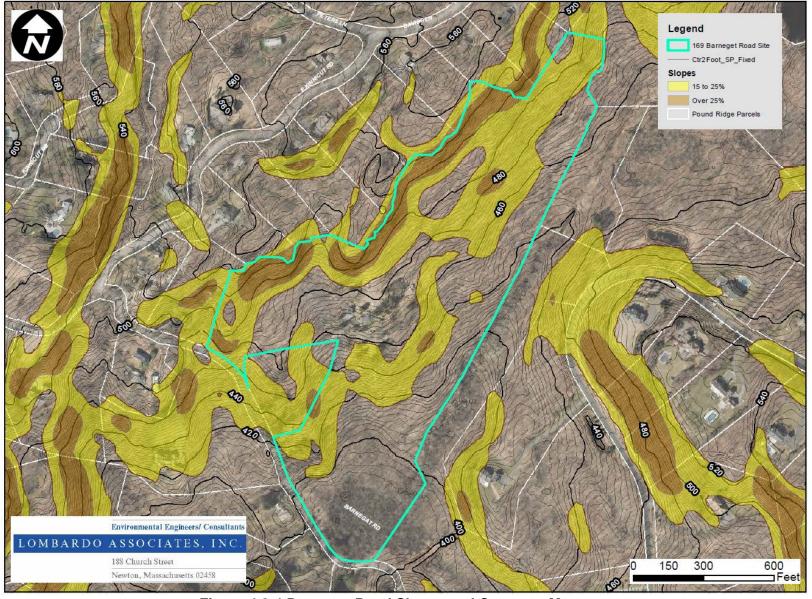


Figure 4.8-4 Barnegat Road Slopes and Contours Map

Table 4.8-2 Barnegat Road Test Pit Summary 1

	Barnegat Road Test Pit Records														
TP Depth	TP 1-1	TP 1-2	TP 1-3	TP 1-4	TP 1-6	_	TP 1-8		TP 2-3	TP 2-4	TP 2-5	TP 2-6	TP 2-7	TP 2-8	TP 2-9
G.L.	6" Top Soil	8" Top Soil	6" Top Soil	8" Top Soil	6" Top Soil	8" Top Soil	8" Top Soil	6" Top Soil	6" Top Soil	6" Top Soil	6" Top Soil	6" Top Soil	2" Top Soil	2" Top Soil	2" Top Soil
6"															
12"								6-29" Silty						2-24" Silty	2-24" Silty
18"	6-38" Silty	8-27" Silty	6-38" Silty			8-34"	8-30" Silty	Loam	6-36" Silty		6-36" Silty	6-40"		Loam w/ cobbles	Loam w/ cobbles
24"	Loam	Loam	Loam			Silty	Loam	w/ cobbles	Loam w/ cobbles	6-44" Silty	Loam w/ cobbles	Silty	2-44"		
30"				8-45"		Loam				Loam w/		Loam w/	Silty		
36"				Silty Loam;	8-55" Silty					0000.00		cobbles	cobbles;		24-48"
42"	38-44" Sands;	27-44" Sands; Ledge	38-53"	Ledge @ 45"	Loam; Ledge @ 55"		30-52" Sands;	29-50" Sands;	36-48" Sands;		36-48" Sands;		Ledge @ 44"	24-50" Sands; Ledge @	Silty Loam w/ cobbles; Ledge @
48"	Ledge at 44"	@ 44"	Sands; Ledge @ 53"			Ledge @ 44"	Ledge @ 52"	Ledge @ 50"	Ledge @ 48"	44-57" Sands; Ledge @	Ledge @ 48"	40-46" Sands; Ledge @ 46"		50"	48"
54"										57"					
60"															
66"															
72"															
78"															
84"															
90"															
96"															

Table 4.8-3 Barnegat Road Test Pit Summary 2

	Barnegat Road Test Pit Records														
TP Depth	TP 11	TP 12	TP 13	TP 16	TP 17	TP 18	TP 19	TP 22	TP 23	TP 24	TP 25	TP 26	TP 27	TP 28	TP 29
G.L.	6" Top Soil / Organic	8" Top Soil / Organic	6" Top Soil / Organic	6" Top Soil / Organic	6" Top Soil / Organic	8" Top Soil / Organic	10" Top Soil / Organic	6" Top Soil	6" Top Soil	6" Top Soil	6" Top Soil	6" Top Soil	2" Top Soil	2" Top Soil	2" Top Soil
6"		Olganic				Organic	Organic								
12"					6-34"			6-24" Sand +						2-24" Silty	
18"		8-27" Sands +	6-38" Sand +		Sand + Silts	8-30" Sand +	10-30" Sand +	Silts	6-36" Sand +		6-36" Sand +	6-40" Sand +		Loam	
24"	6-38" Sand +	Silts	Silts			Silts	Silts		Silts	6-44" Sand +	Silts	Silts	2-47"		
30"	Silts									Silts			Silty		2-45"
36"				6-55									Loam; BR @		Silty Loam
42"		27-44" Mixed Sands; 38-53" BR @ Mixed	Sand + Silts; BR @ 55"	34-44" Mixed Sands;	30-52" Mixed	30-44" Mixed Sands;	24-50" Mixed Sands; BR @	36-42" Mixed Sands; BR @ 42"		36-47" 40-46" Mixed Mixed		47"	24-50" Sands; BR @ 50"		
48"	38-44" Mixed Sands; BR @ 44"	44"	Sands; BR @ 53"		BR @ 44"	Sands; BR @ 52"	Br @ 44"	50"		44-57" Mixed Sands;	Sands; BR @ 47"	Sands; BR @ 46"			
54"										BR @ 57"					
60"										1					
66"															
72"															
78"															
84"															
90"															
96"															

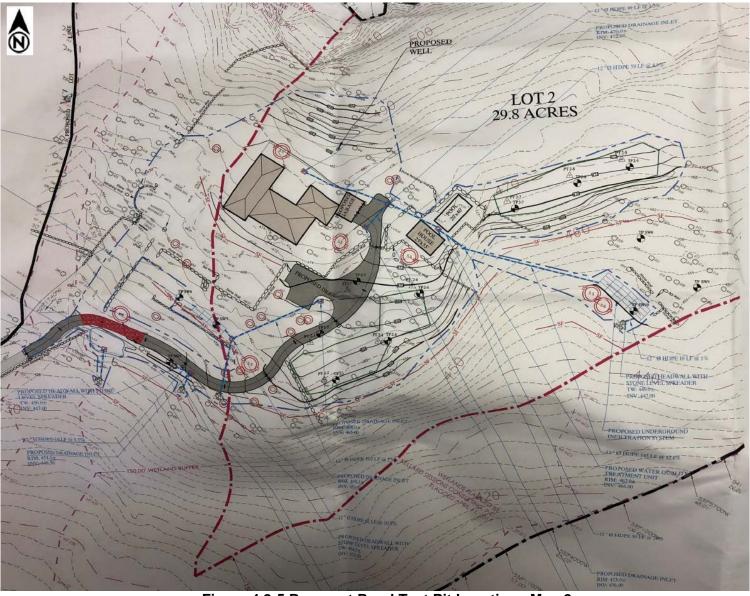


Figure 4.8-5 Barnegat Road Test Pit Locations Map 2

5. PRELIMINARY CANDIDATE SITES DISPOSAL CAPACITY ANALYSIS

Due to the additional distance and cost to the Elementary School and Town land adjacent to the School those two sites are not being further evaluated. Due to the lack of interest of property owners, the Golf Course and Clark properties are not being further evaluated. The Golf Course is also not attractive as disposal at that location would not recharge the Laurel Reservoir. Recharging the Laurel Reservoir is a critical aspect to secure the water supply commitment from Aquarion.

Disposal capacity of final preferred site(s) will be determined by use of the USGS Groundwater Flow computer model MODFLOW. For analytical purposes only, Darcy's Law capacity estimates are prepared in this chapter to provide initial insights to the disposal capacities of the candidate sites.

DARCY'S LAW CAPACITY ESTIMATES METHODOLOGY

The treated wastewater disposal capacity of candidate sites was estimated in the following manner:

- 1. Available Area determined as discussed in Section 4
- 2. Viable zones within the available area were identified based upon topography (work with contours) and preliminary disposal system layout considerations.
- 3. Darcy's Law disposal capacity of the drainfield zones was calculated at the downgradient face of the zone as follows, see Figures 5.0-1 through 5.0-3:

 $Q = K^*A^*i$, where Q = volur

Q = volumetric flow (cf/day),

K = Hydraulic conductivity (ft/day) of unsaturated zone,

A = cross sectional area (sf) of discharge cross sectional area

i = groundwater slope

- i. Hydraulic conductivity (K) of soils estimated based upon NCRS soils data;
- ii. Test pit data (as presented in Section 4) reviewed to estimate depth to groundwater(GW)/bedrock,
- iii. Cross Sectional area computed by:
 - ✓ Length measured as the furthest downgradient face of zone
 - ✓ Depth calculated by subtracting from depth to GW/BR (ii above)
 - 1 foot separation between grade and bottom of drainfield;
 - 1 foot separation between drainfield bottom and max mounded GW elevation
- 4. Darcy's Law flow estimates calculated
- 5. Preliminary drainfield layouts prepared based upon NYS DEC and WC DoH code
- 6. Darcy's Law flow estimates calculations revised based upon drainfield layout loadings.

Depth to bedrock and/or groundwater was determined based on the following, in order of priority:

- 1. Nearby boring or test pit data
- 2. Table 18 from the Soil Survey of Putnam and Westchester Counties (1994) provides groundwater and bedrock depth below grade by soil types



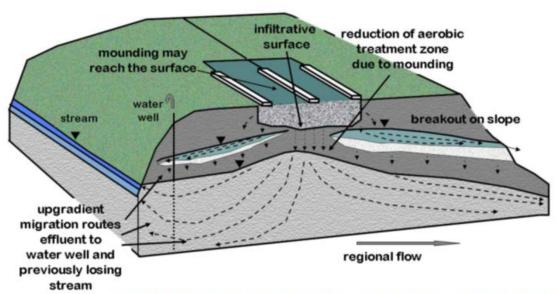
Where boring data was available, those values were used. If no nearby boring data was available, the Soil Survey data was used to assign depth to groundwater / bedrock.

Saturated hydraulic conductivity was estimated by taking the midpoint of the permeability range presented in Table 17 of the Soil Survey referenced above.

All calculations and preliminary drainfield layouts are presented in the following sections, with a summary presented on Table 5.0-1.

Table 5.0-1 Candidate Sites Preliminary Darcy's Law Capacity Estimates

Candidate Disposal site Summary									
Site#	Site Name	Flow - Darcy's (GPD)							
1	Town Park	69,031							
2	Old Pound Ridge Rd	42,897							
3	Lower Trinity Pass	55,976							
4	Barnegat Rd	18,007							
5	29,428								



NDWRCDP (2005) Guidance for Evaluation of Potential Groundwater Mounding

Figure 5.0-1 Mounding Schematic

Darcy Appliedto Groundwater Mounding Analysis

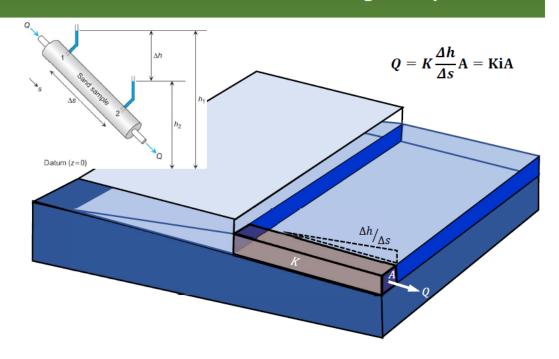


Figure 5.0-2 Simplified Darcy's Law Applied to Mounding Analysis

From Bradley et al, 2019

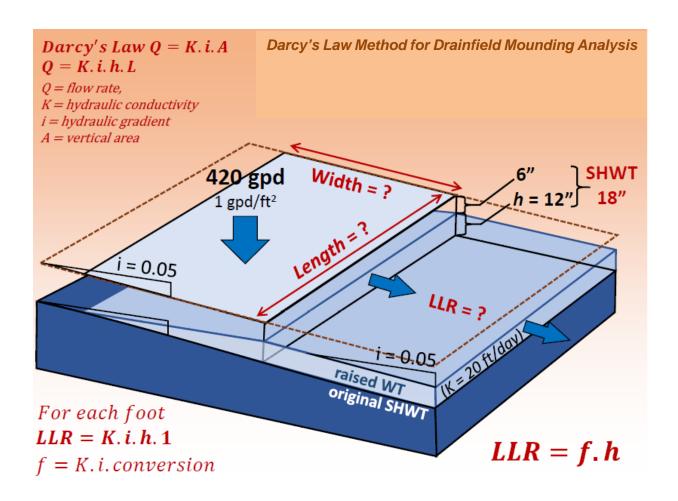


Figure 5.0-3 Simplified Darcy's Law Mounding Analysis-Example

From Bradley et al, 2019

5.1 TOWN PARK BALLFIELD SITE

Figure 5.1-1 presents the available areas and preliminary disposal zones within the Town-owned parcels at the ballfield site. Figure 5.1-2 presents the preliminary drainfield layout. Table 5.1-1 presents the Darcy's Law Disposal Capacity Analysis for Town Park.

Table 5.1-1 Darcy's Law Disposal Capacity Estimates – Town Park

			Tov	vn Park I	Potential D	rainfield Zo	ones Capa	city Anal	ysis			
DF	GW	Nearby Boring		Soil Based	Assumed		Max.	Hyd.		Flux	Flow	- Darcy
Zone #	Flux Length (ft)	Data Depth to GW / BR (ft)	Soil Type	Depth to GW / BR ⁽¹⁾ (ft)	Depth to GW / BR (ft)	Depth Below Grade (ft)	Mound Height ⁽²⁾ (ft)	_ (3)	Slope (%)	Area (ft²)	(ft³/ day)	(gpd)
1	700	>8	CrC, CsD	>5	8.0	1.0	6.0	6.6	10.0%	4,200	2,772	20,735
2	375	>8	CrC	>5	8.0	1.0	6.0	6.6	7.0%	2,250	1,040	7,775
3	500	>7.7	CrC	>5	8.0	1.0	6.0	6.6	10.0%	3,000	1,980	14,810
4	220	6	CIB	>5	5.0	1.0	3.0	6.6	8.0%	660	348	2,607
5	900	None	ChB, CrC, ChC	>5	6.0	1.0	4.0	6.6	6.0%	3,600	1,426	10,663
6	700	None	ChB, CrC, ChC	>5	6.0	1.0	4.0	6.6	9.0%	2,800	1,663	12,441

⁽¹⁾ From Table 18 - Westchester County Soil Survey

⁽²⁾ Assumes drip disposal @ 1-ft below grade and 1-ft minimum separation from max mounded groundwater

⁽³⁾ Average Value from Table 17 - Westchester County Soils Survey

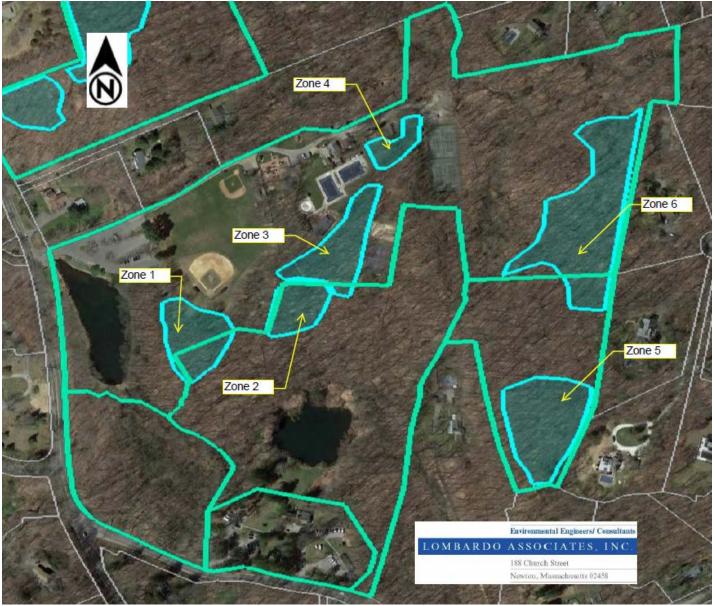


Figure 5.1-1 Town Park Available Areas and Potential Disposal Zones

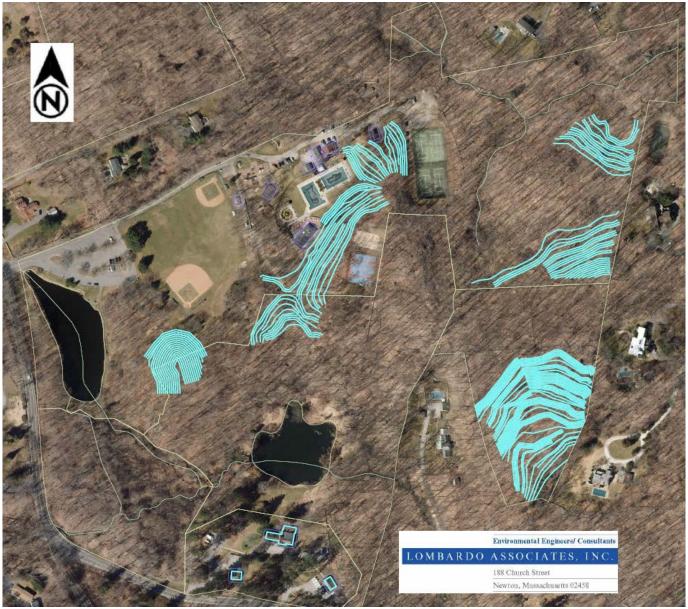


Figure 5.1-2 Example of Trench Layout – Town Park

5.2 OLD POUND ROAD SITE

Figure 5.2-1 presents the available areas and preliminary disposal zones within the Kerr property across from the ballfield site.

Table 5.2-1 presents the Darcy's Law Disposal Capacity Analysis for the Old Pound Road site.

Table 5.2-1 Disposal Capacity Estimates - Old Pound Road

			Old Po	ound Roa	d Potentia	l Drainfield	d Zones Ca	pacity A	nalysis			
DF	GW	Nearby Boring		Soil Based	Assumed	Disp. Sys.	Max.	Hyd.		Flux	Flow	- Darcy
Zone #	Flux Length (ft)	Data Depth to GW / BR (ft)	Soil Type	Depth to GW / BR ⁽¹⁾ (ft)	Depth to GW / BR (ft)	Depth Below Grade (ft)	Height	Cond. ⁽³⁾ (ft/d)	Slope (%)	Area (ft²)	(ft³/ day)	(gpd)
1	430	None	ChB	>5	6.0	1.0	4.0	6.6	7.0%	1,720	795	5,944
2	450	None	ChB	>5	6.0	1.0	4.0	6.6	8.0%	1,800	950	7,109
3	650	None	ChC, ChD	>5	6.0	1.0	4.0	6.6	8.0%	2,600	1,373	10,269
4	330	None	ChD, ChC	>5	6.0	1.0	4.0	6.6	7.0%	1,320	610	4,562

⁽¹⁾ From Table 18 - Westchester County Soil Survey

⁽²⁾ Assumes drip disposal @ 1-ft below grade and 1-ft minimum separation from max mounded groundwater

⁽³⁾ Average Value from Table 17 - Westchester County Soils Survey



Figure 5.2-1 Old Pound Road Site Available Area and Potential Disposal Zones

5.3 LOWER TRINITY PASS ROAD SITE

Figure 5.3-1 presents the available areas and preliminary disposal zones for the Lower Trinity Pass Road site.

Table 5.3-1 presents the Darcy's Law Disposal Capacity Analysis for the Lower Trinity Pass Road site

Table 5.3-1 Disposal Capacity Estimates -Lower Trinity Pass Road Site

			Lower 1	Trinity Pa	ass Potenti	al Drainfiel	ld Zones C	apacity A	Analysis			
DF	GW	Nearby Boring		Soil Based	Assumed	Disp. Sys.	Max.	Hyd.		Flux	Flow	- Darcy
Zone #	Flux Length (ft)	Data Soil Depth Depth to GW GW / BR to GW BR (ft) (ft) (ft)		Depth Below Grade (ft)	Mound Height ⁽²⁾ (ft)	. (3)	Slope (%)	Area (ft²)	(ft³/ day)	(gpd)		
1	1,750	None	CrC, CsD	>5	5.5	1.0	3.5	6.6	5.0%	6,125	2,021	15,119
2	300	None	CrC	>5	5.5	1.0	3.5	6.6	4.0%	1,050	277	2,073
3	500	None	CrC	>5	5.5	1.0	3.5	6.6	10.0%	1,750	1,155	8,639
4	500	10	CsD	>5	10.0	1.0	8.0	6.6	15.0%	4,000	3,960	29,621
5	500	None	LeB	>5	3.0	1.0	1.0	2.0	7.0%	500	70	524

⁽¹⁾ From Table 18 - Westchester County Soil Survey

 $^{^{(2)}}$ Assumes drip disposal @ 1-ft below grade and 1-ft minimum separation from max mounded groundwater

⁽³⁾ Average Value from Table 17 - Westchester County Soils Survey

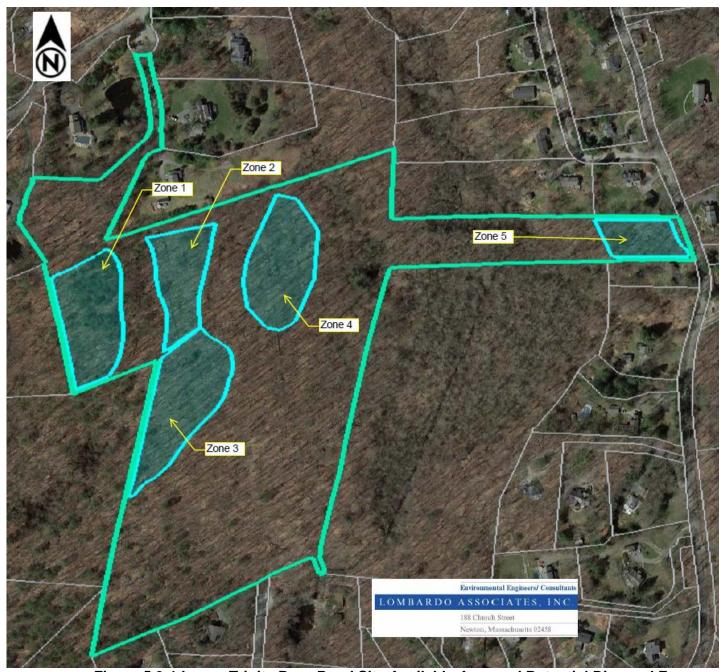


Figure 5.3-1 Lower Trinity Pass Road Site Available Area and Potential Disposal Zones

5.4 BARNEGAT ROAD SITE

Figure 5.4-1 presents the available areas and preliminary drainfield sites for the Barnegat Road site, located between the area of Scotts Corner and the Siscowit Reservoir.

Table 5.4-1 presents the Darcy's Law Disposal Capacity Analysis for the Barnegat Road site.

Table 5.4-1 Disposal Capacity Estimates – Barnegat Road Site

			Barne	egat Roa	d Potential	Drainfield	Zones Ca	pacity An	alysis			
DF	GW	Nearby Boring		Soil Based	Assumed	Disp. Sys.	Max.	Hyd.		Flux	Flow	- Darcy
Zone #	Flux Length (ft)	Data Depth to GW / BR (ft)	Soil Type	Depth to GW / BR ⁽¹⁾ (ft)	Depth to GW / BR (ft)	Depth Below Grade (ft)	Height	C (3)	Slope (%)	Area (ft²)	(ft³/ day)	(gpd)
1	500	3.9	ChB, CID	>5	3.9	1.0	1.9	6.6	6.0%	950	376	2,814
2	830	4	CIC	>5	3.9	1.0	1.9	6.6	8.0%	1,577	833	6,228
3	1,100	None	CIC, LeB	3	3.0	1.0	1.0	6.6	8.0%	1,100	581	4,344
4	520	None	CsD	>5	5.0	1.0	3.0	6.6	6.0%	1,560	618	4,621

⁽¹⁾ From Table 18 - Westchester County Soil Survey

⁽²⁾ Assumes drip disposal @ 1-ft below grade and 1-ft minimum separation from max mounded groundwater

⁽³⁾ Average Value from Table 17 - Westchester County Soils Survey



Figure 5.4-1 Barnegat Road Site Available Area and Potential Disposal Zones

5.5 OCEANUS SITE

Figure 5.5-1 presents the available areas and preliminary drainfield sites for the Oceanus site, located along the border between New York and Connecticut.

Table 5.5-1 presents the Darcy's Law Disposal Capacity Analysis for the Oceanus site.

Table 5.5-1 Disposal Capacity Estimates - Oceanus Site

			Oc	eanus Po	otential Dra	ainfield Zor	es Capa	ity Analy	/sis			
DF	GW	Nearby Boring		Soil Based	Assumed		Max.	Hyd.		Flux	Flow	- Darcy
Zone #	ne Flux Data Soil		Туре	Depth to GW / BR ⁽¹⁾ (ft)	Depth to GW / BR (ft)	Depth Below Grade (ft)	Mound Height (ft)	Cond. ⁽²⁾ (ft/d)	Slope (%)	Area (ft²)	(ft³/ day)	(gpd)
1	540	4.5	CuD, CiD	0-5+	4.5	2.0	2.5	6.6	6.0%	1,350	535	3,999
2	600	4.5	ChB	>5	5.0	2.0	3.0	6.6	6.0%	1,800	713	5,332
3	580	none	CiC, CrC	2-5+	5.0	2.0	3.0	6.6	8.0%	1,740	919	6,872
4	410	none	CiC, Ff	2-5+	5.0	2.0	3.0	6.6	4.0%	1,230	325	2,429
5	350	7.0	SuB, Ff	0.5-6	7.0	2.0	5.0	6.6	3.0%	1,750	347	2,592
6	560	none	CrC, HrF, CuD	1-5+	5.0	2.0	3.0	6.6	4.0%	1,680	444	3,318
7	660	none	CrC, HrF	1-5+	5.0	2.0	3.0	6.6	5.0%	1,980	653	4,887

⁽¹⁾ From Table 18 - Westchester County Soil Survey

⁽²⁾ Average Value from Table 17 - Westchester County Soils Survey

⁽³⁾ Assumes drip disposal @ 1-ft below grade and 1-ft minimum separation from max mounded groundwater

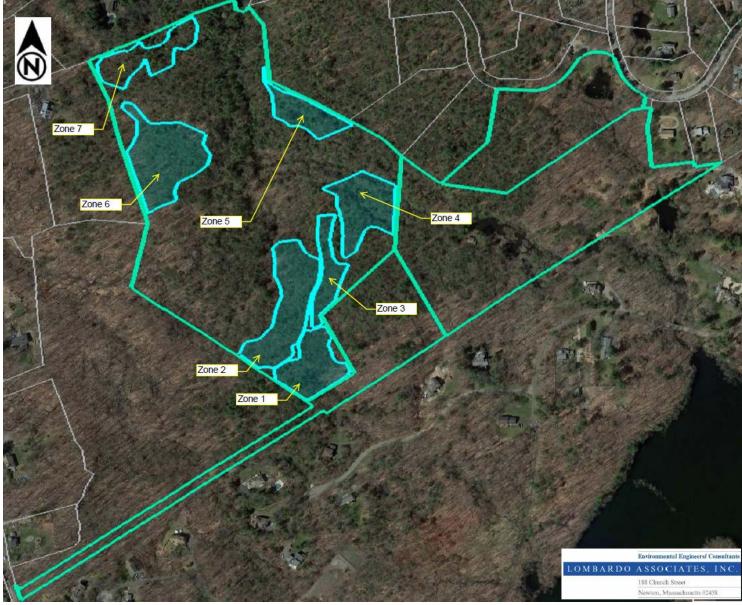


Figure 5.5-1 Oceanus Site Available Area and Potential Disposal Zones

6. SITE TESTING PLAN

6.1 SITE EVALUATION AND TESTING OVERVIEW

Of the five (s) sites examined in Section 5, LAI ranked the sites in terms of likely ability to have the groundwater disposal capacity and/or favorable costs into two Tiers of Highly Favorable and Favorable.

Highly Favorable

- ✓ Pine Drive Lower Trinity Road
- √ 169 Barnegat Road

Favorable

- ✓ Town Park
- ✓ Old Pound Road

For a site to be deemed acceptable for project treated effluent disposal for a design flow of 40,000 gpd, 60,000 gpd or 80,000 gpd, computer modeling of the treated wastewater discharge will need to be performed using the USGS MODFLOW groundwater model computer program. Disposal capacity will be determined by the computer model demonstrating that the discharge will comply with the **Disposal Criteria** of:

➤ Minimum 2 feet separation from the bottom of the disposal system to maximum groundwater elevation — with the mound. Disposal system initially assumed to be drip irrigation, which would be 6" below ground surface thereby maximizing the depth of the unsaturated zone. Drip also would minimize tree removal.

After initial computer modeling and if determined to be important for site selection, this requirement may be reviewed with WC DoH and NYSDEC.

Avoidance of disposal discharge surface breakout prior to reaching surface water

This will be accomplished in the following order / manner:

Phase I Site Characterization

On the Highly Favorable Sites, Test Pits will be performed to define for the proposed disposal areas (i.e. defined as Zones on maps presented in Section 4), depth to groundwater and bedrock and soil samples taken for sieve analysis. The Town has authorized this work.

For site characterization results that are positive, a determination will be made if additional field data needs to be collected prior to MODFLOW model application.

Phase II Computer Modeling

For the Town selected site(s), a MODFLOW computer model of treated effluent groundwater flow will need to be performed to determine a site's capacity to accept the treated wastewater discharge.

The site characterization results will be published in an addendum to this Plan.

The primary objective of the Phase I is step is to eliminate non-viable sites which do not have the minimum soil mantle thickness required along the discharged treated wastewater flow path to prevent breakout. Soil thickness is a heavy determinant of site capacity.

The number of test pit locations at each site was determined by:

- a. Feasibility of one full day of site testing with two machines maximum number of test pit locations is 16 per site
- b. Test pits not conducted in areas where previous test pit data exists
- c. Bottom of slope (downgradient) areas were prioritized to maximize data in areas passing highest amounts of discharged effluent
- d. Remaining test pits distributed throughout potential disposal areas to characterize entire areas as best as possible within the budget limitations.

For each of the 4 sites, maps of the following information are presented in the following subsections:

- 1. Test Pit Location Map with topography, zones delineated, subwatershed boundaries and estimated groundwater flow direction.
- 2. Area Watershed Map with estimated groundwater flow direction and streams illustrating where the effluent would likely emerge into a surface water and showing ultimate discharge to Laurel Reservoir. Figure 6-1-1 illustrates the 4 sites, their subwatershed and creeks that drain the sites and their flow paths.

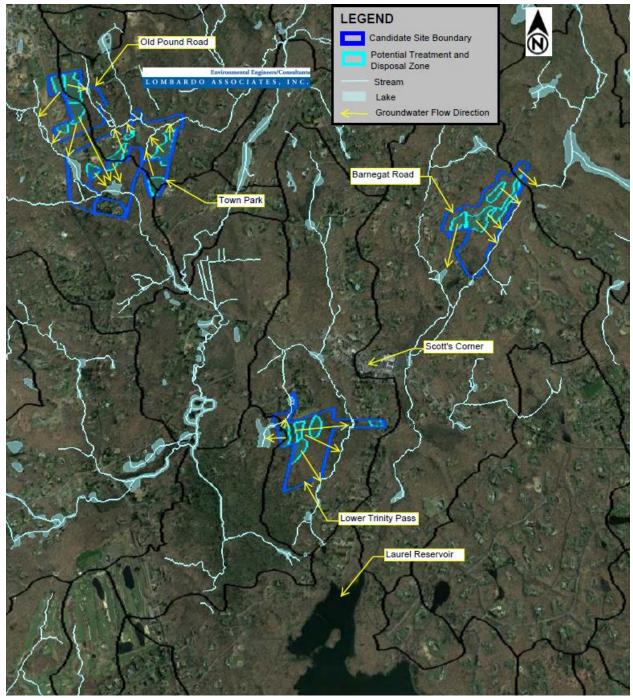


Figure 6-1-1 Candidate Sites, Subwatershed Locations and Creeks

6.2 PINE DRIVE - LOWER TRINITY ROAD

Test Pit Location Map is presented on Figure 6-2-1. Area Watershed Map is presented on Figure 6-2-2. Test Pits Locations and Form for Field Data is presented on Table 6-2-1.

Cross sections (see Figure 6-2-1) of the property illustrating test pit data previously collected are presented on Figures 6-2-3 through 6-2-5.

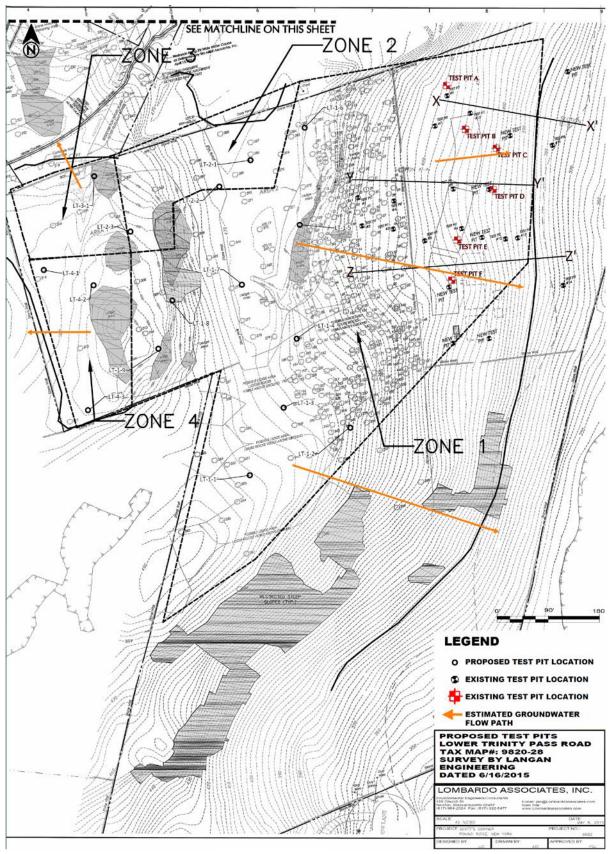


Figure 6-2-1 Lower Trinity Pass, Test Pit Locations Map

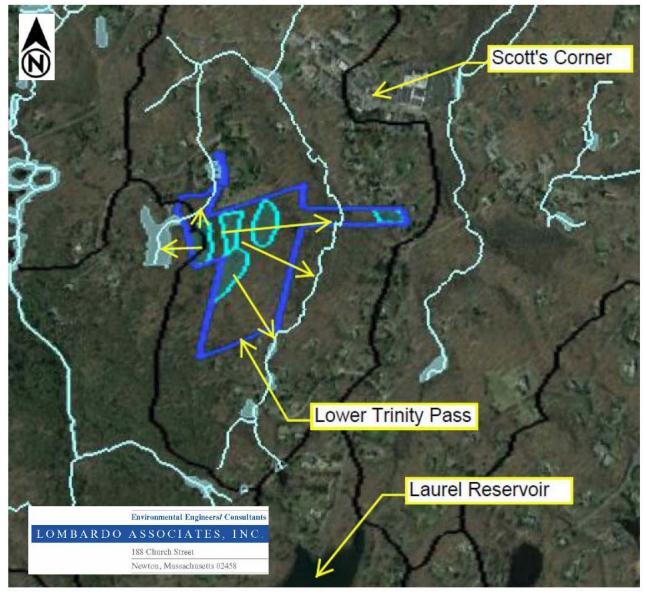


Figure 6-2-2 Lower Trinity Pass, Area Watershed Map

Table 6-2-1 Lower Trinity Pass, Test Pit Locations and Form for Field Data

	Lower Trinity Road - New Test Pits by Zone											
Zone	TP#	GIS	TP Loc			th to	Soils Description					
		#	Longitude	Latitude	BR	GW						
	LT-1-1	19	-73.55564463	41.18528481								
	LT-1-2	16	-73.55500474	41.18550727								
	LT-1-3	18	-73.55542554	41.18560687								
	LT-1-4	17	-73.55533814	41.18593675								
1	LT-1-5	13	-73.55531041	41.18648177								
	LT-1-6	14	-73.55527331	41.18694726								
	LT-1-7	20	-73.55568157	41.1861983								
	LT-1-8	27	-73.55612387	41.18612598								
	LT-1-9	28	-73.55621509	41.18589573								
	LT-2-1	15	-73.55561873	41.18679428								
2	LT-2-2	21	-73.55581771	41.18666947								
	LT-2-3	26	-73.55638451	41.18645849								
3	LT-3-1	24	-73.55661022	41.18672572								
	LT-4-1	23	-73.55693585	41.18627887								
4	LT-4-2	25	-73.55662131	41.18620317								
	LT-4-3	22	-73.55666576	41.18560507								
Total TPs	16											

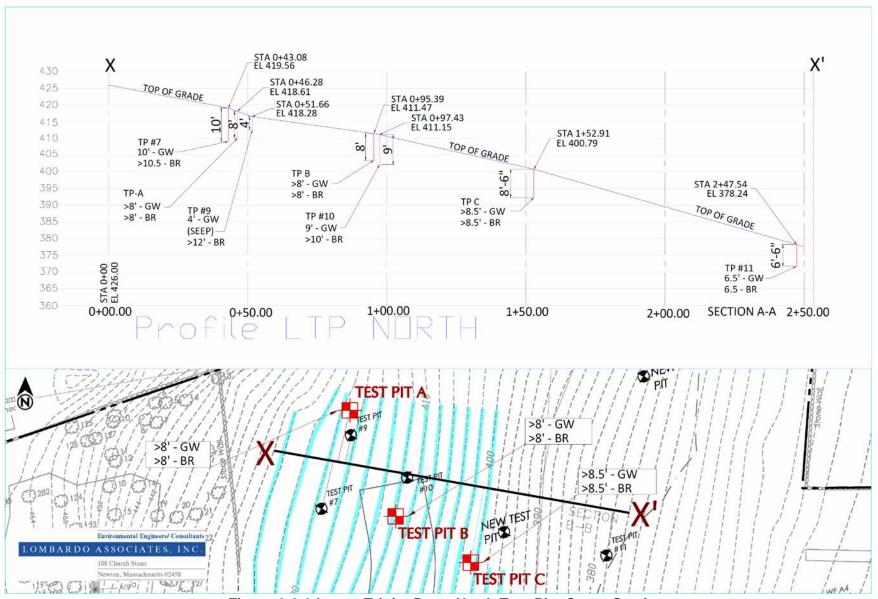


Figure 6-2-3 Lower Trinity Pass, North Test Pits Cross-Section

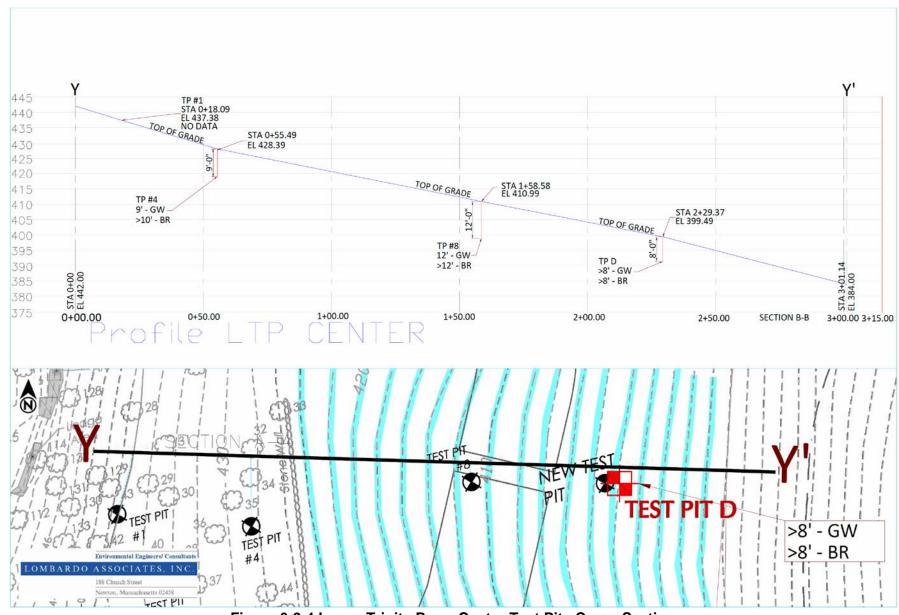


Figure 6-2-4 Lower Trinity Pass, Center Test Pits Cross-Section

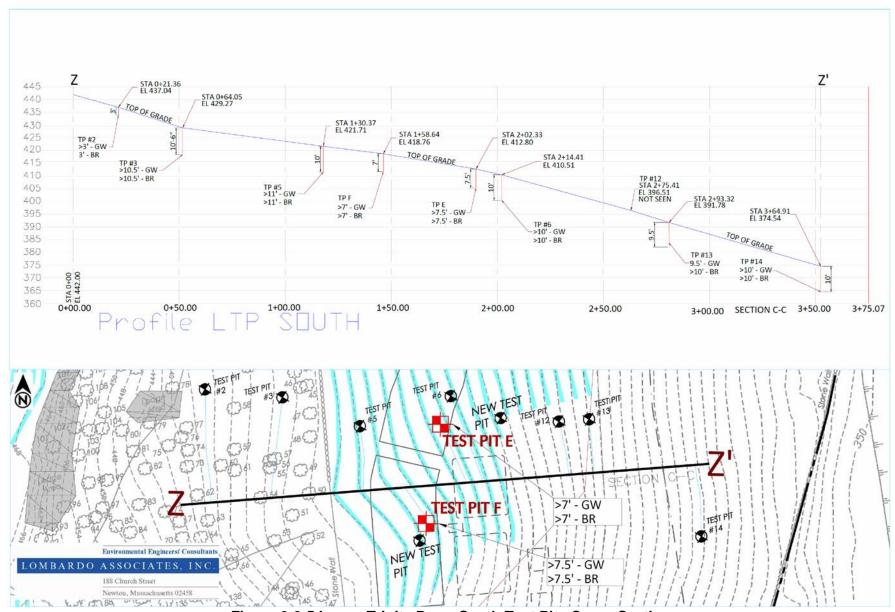


Figure 6-2-5 Lower Trinity Pass, South Test Pits Cross-Section

6.3 169 BARNEGAT ROAD

Test Pit Location Map is presented on Figure 6-3-1. Area Watershed Map is presented on Figure 6-3-2. Test Pits Locations and Form for Field Data is presented on Table 6-3-1.

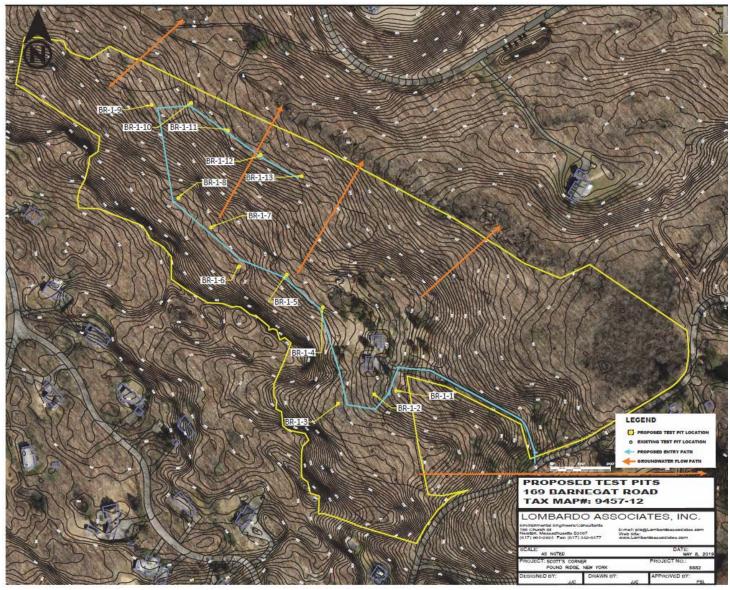


Figure 6-3-1 Barnegat Road, Test Pit Locations

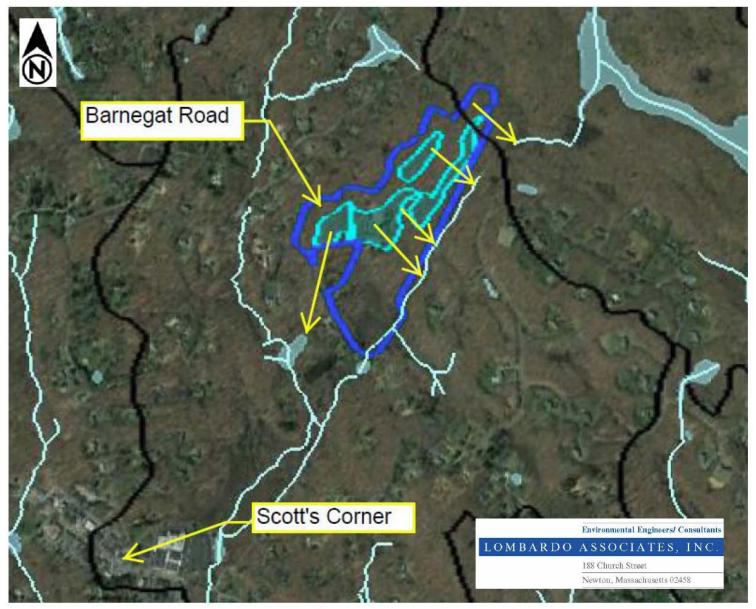


Figure 6-3-2 Barnegat Road, Area Watershed Map

Table 6-3-1 Barnegat Road, Test Pit Locations and Form for Field Data

Barnegat Road - New Test Pits by Zone											
Zone	TP#	GIS		cation		th to					
Zone	"	#	Longitude	Latitude	BR	GW	Soils Description				
	BR-1-1	12	-73.54352	41.197257							
	BR-1-2	11	-73.54356	41.197459							
	BR-1-3	10	-73.54367	41.197794							
	BR-1-4	9	-73.54249	41.197924							
	BR-1-5	8	-73.54209	41.198253							
	BR-1-6	7	-73.54198	41.198689							
1	BR-1-7	6	-73.5415	41.198946							
	BR-1-8	5	-73.54114	41.199243							
	BR-1-9	4	-73.54	41.19948							
	BR-1-10	3	-73.53998	41.199115							
	BR-1-11	2	-73.54033	41.198779							
	BR-1-12	1	-73.54062	41.198481							
	BR-1-13	64	-73.54089	41.198105							
Total TPs	13										

6.4 TOWN PARK

Test Pit Location Map is presented on Figure 6-4-1. Area Watershed Map is presented on Figure 6-4-2. Test Pits Locations and Form for Field Data is presented on Table 6-4-1.

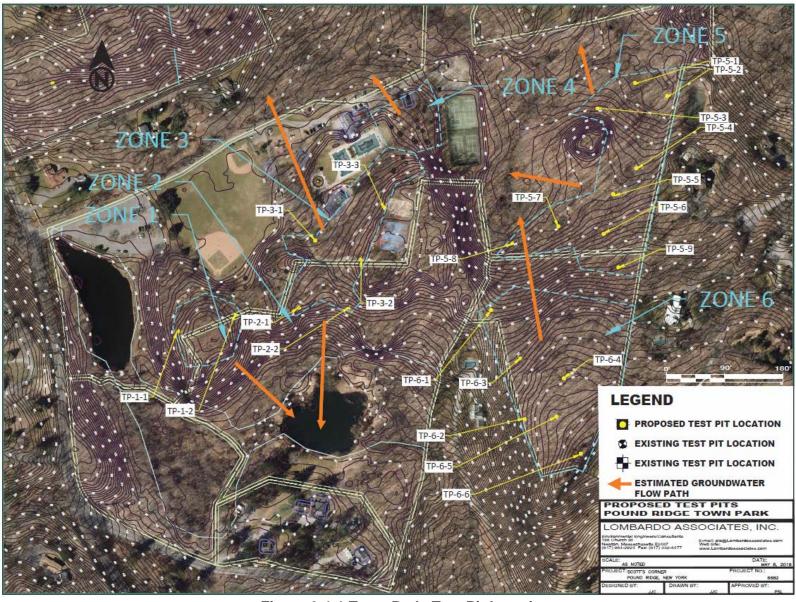


Figure 6-4-1 Town Park, Test Pit Locations

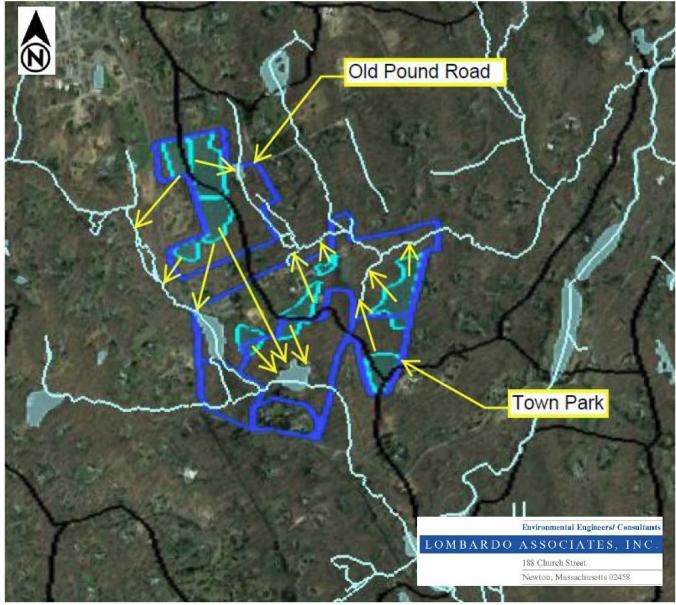


Figure 6-4-2 Town Park, Area Watershed Map

Table 6-4-1 Town Park, Test Pit Locations and Form for Field Data

			Pound Ri	dge Town Par	rk - Ne	w Test	Pits by Zone
Zone	TP#	GIS	TP Loc	ation	Dep	th to	Soils Description
Zonc	" "	#	Longitude	Latitude	BR	GW	Solis Description
1	TP-1-1	42	-73.5704834	41.2003183			
1	TP-1-2	43	-73.5697662	41.2004689			
2	TP-2-1	44	-73.568976	41.2005303			
2	TP-2-2	45	-73.5683623	41.2005177			
	TP-3-1	46	-73.5687679	41.2011606			
3	TP-3-2	47	-73.5681984	41.200976			
	TP-3-3	48	-73.5678986	41.201462			
	TP-5-1	50	-73.5647546	41.2026123			
	TP-5-2	49	-73.5643568	41.2024872			
	TP-5-3	51	-73.5652267	41.2023783			
	TP-5-4	52	-73.5647507	41.201809			
5	TP-5-5	53	-73.5651674	41.201193			
	TP-5-6	56	-73.5650447	41.2015677			
	TP-5-7	54	-73.5657304	41.2012682			
	TP-5-8	55	-73.5663107	41.2011133			
	TP-5-9	57	-73.5649875	41.200876			
	TP-6-1	58	-73.5665827	41.2004882			
	TP-6-2	62	-73.5662212	41.200027			
6	TP-6-3	59	-73.5656835	41.1998373			
U	TP-6-4	60	-73.5661764	41.1994562			
	TP-6-5	61	-73.5657809	41.1994786			
	TP-6-6	63	-73.5654811	41.1991267			
Total DHs	22						

6.5 OLD POUND ROAD

Test Pit Location Map is presented on Figure 6-5-1. Area Watershed Map is presented on Figure 6-5-2. Test Pits Locations and Form for Field Data is presented on Table 6-5-1.

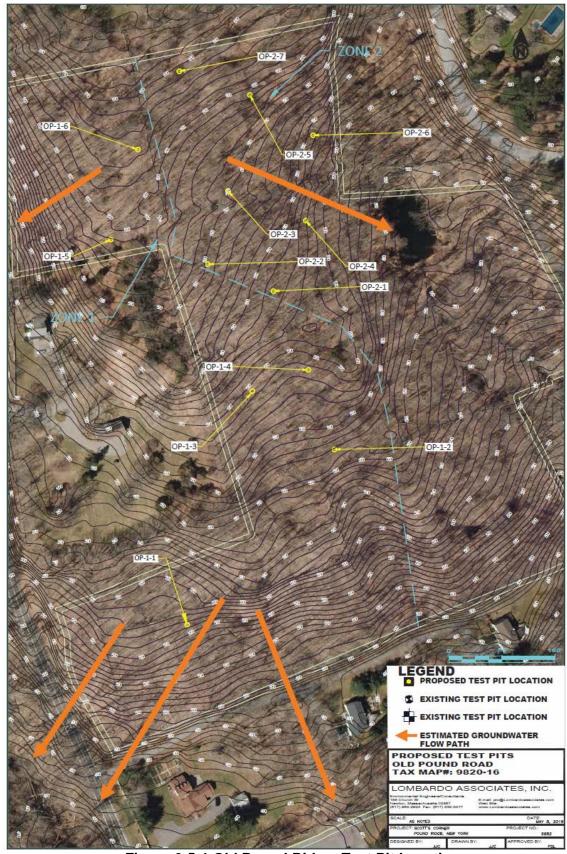


Figure 6-5-1 Old Pound Ridge, Test Pit Locations

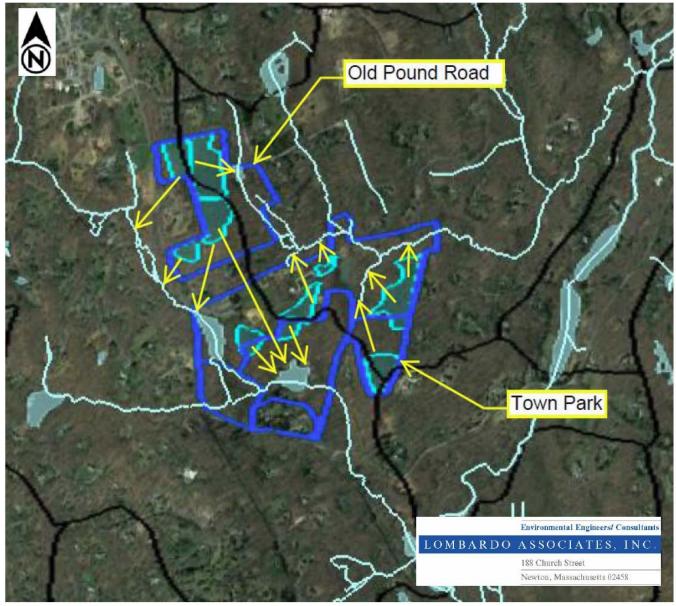


Figure 6-5-2 Old Pound Road, Area Watershed Map

Table 6-5-1 Old Pound Road, Test Pit Locations and Form for Field Data

					Old P	ound F	Road - New Test Pits by Zone
Zone	TP#	GIS	TP Loc	cation	Dep	th to	Soils Description
ZUITE	117#	#	Longitude	Latitude	BR	GW	Solis Description
	OP-1-1	29	-73.572025	41.2026706			
	OP-1-2	30	-73.571005	41.2035675			
	OP-1-3	32	-73.571562	41.203873			
1	OP-1-4	31	-73.571178	41.2039795			
	OP-1-5	40	-73.572519	41.2046631			
	OP-1-6	41	-73.572327	41.2051266			
	OP-2-1	33	-73.571411	41.2043884			
	OP-2-2	36	-73.571859	41.204531			
	OP-2-3	37	-73.571714	41.2049082			
2	OP-2-4	34	-73.571185	41.2047505			
	OP-2-5	38	-73.571558	41.2054022			
	OP-2-6	35	-73.571128	41.2051909			
	OP-2-7	39	-73.572039	41.2055283			
Total TPs	13						

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7. WASTEWATER SYSTEM - GROUNDWATER MODELING AND SITE SELECTION

o be completed after Town authorization of the work		

8. WASTEWATER SYSTEM-PRELIMINARY ENGINEERING + OPINIONS ON COSTS

8.1 Preliminary Engineering

The process flow diagram for the proposed wastewater management system (WWMS), which consists of wastewater collection, treatment and disposal systems, is presented on Figure 8-1.

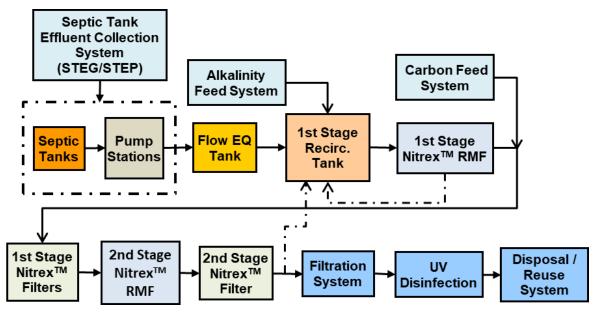


Figure 8-1 WWMS Process Flow Diagram

The treatment process has been selected as it can achieve Tertiary Disinfection Treatment, defined as the following effluent quality.

pH 6.5 – 8.5 BOD/TSS < 10 mg/L Oil & Grease < 15 mg/L Total Nitrogen (TN) < 10 mg/L

Fecal Coliform Average < 24 & Maximum < 200 MPN / 100 ml Enterococcus Average < 24 & Maximum < 104 MPN / 100 ml

The preliminary design and layouts for the Scotts Corner:

- ✓ Wastewater collection system. A septic tank effluent (STE) collection system, Figure 8-1, is proposed for Scotts Corner in which a new septic tank will serve each property, with grease trap as needed.
- ✓ Wastewater treatment and disposal system initially located at Barnegat Road site

are presented on

Figure 8-2 Sewer Layout

Figure 8-3 Pump Station Plan Views Figure 8-4 Transmission Line Layout

Environmental Engineers/Consultants
LOMBARDO ASSOCIATES, INC.

Figure 8-5 Wastewater Treatment and Disposal Site Layout at Barnegat Road Site Figure 8-6 80,000-gpd Wastewater Treatment System Preliminary Layout

Due to Scotts Corner topography, a predominately gravity wastewater collection system is possible with drainage from northwest to the southeast boundaries of the proposed Service Area. Two pump stations are needed in the system:

- At the natural low point of the Service Area between 30 and 26 Westchester Avenue, which would discharge wastewater through a transmission pipe to the treatment and disposal site.
- At 80 Westchester Avenue to receive wastewater from the south side of Westchester Ave properties, 66 80 Westchester Avenue to avoid excessive deep installations due to a climb in elevation from 80 to 66 Westchester Avenue. Pump station would discharge to gravity line at 56 Westchester Avenue.

8.2 Project Capital Cost and Budget

Table 8-1 presents the capital costs of the conceptualized wastewater collection treatment and disposal system and the water supply system. Costs associated with the various candidate location options for treatment and disposal system are also presented on Table 8-1.

8.3 ANNUAL O&M COSTS

An Equivalent Dwelling Unit (EDU) is defined as a typical residential property with 300 gpd of wastewater flow. EDUs are used to normalize properties that have non-residential flows. Due to the significant variability associated with estimating O&M costs, Table 8-2 presents the probable revenue associated with assuming an annual O&M fee of \$850/EDU – which is in the typical range for wastewater systems. The level of revenue would be sufficient, on a preliminary analysis for 2 operators and expected electricity, materials and annual equipment replacement costs.

Table 8-2 Scotts Corner Wastewater System Opinion of Probable O&M Revenue

Scott's Corner Annual O&M Revenue Estimate											
Cost/EDU	# EDUs	Total O&M Revenue									
\$850	261	\$ 221,624									

8.4 WASTEWATER AND WATER SUPPLY IMPLEMENTATION / CONNECTION ISSUES

Existing water supply and wastewater facilities will be abandoned in place in accordance with WCDoH and NYSDEC standards/requirements. A water supply and wastewater systems connection plan will be developed during design to ensure that properties have continuous service during construction. For instance, treatment plant/disposal system and transmission line is built first, then the common collection system, then property connections are made. When existing wastewater or water facilities will be affected, properties will be able to immediately connect to the sewer and water supply system.



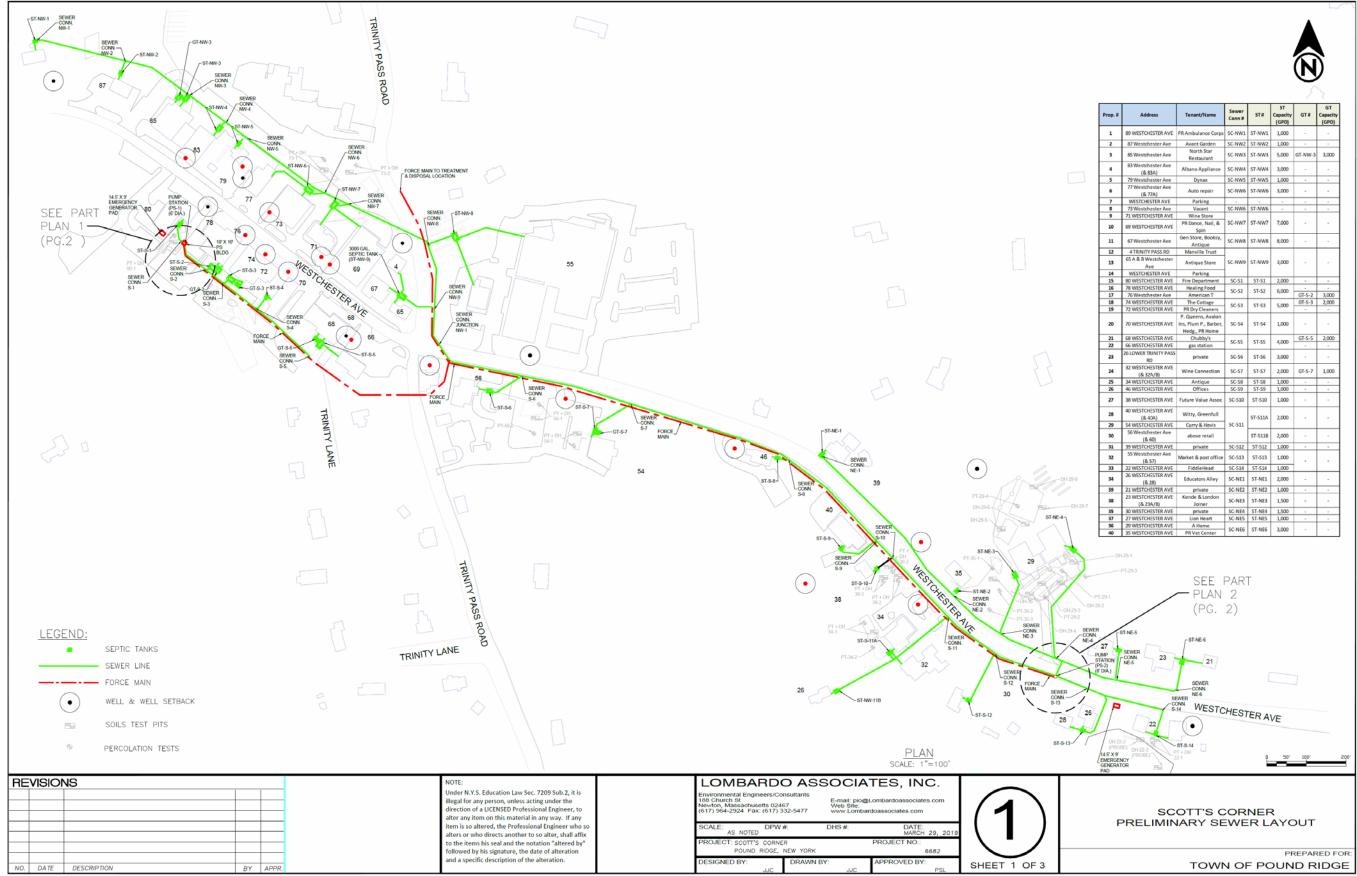


Figure 8-2 Scotts Corner Preliminary Sewer Layout Plan

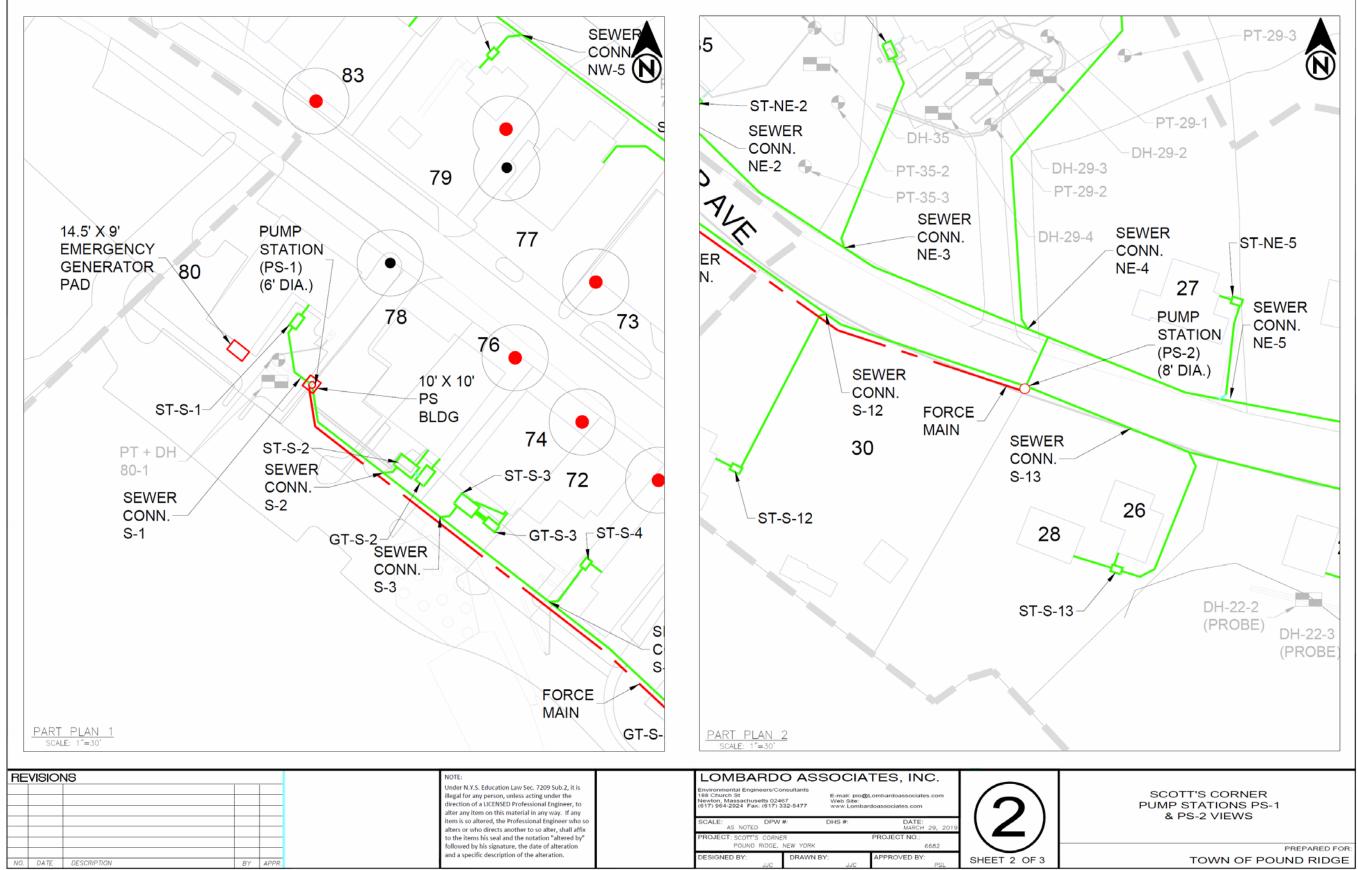


Figure 8-3 Scotts Corner Pump Station Plan Views

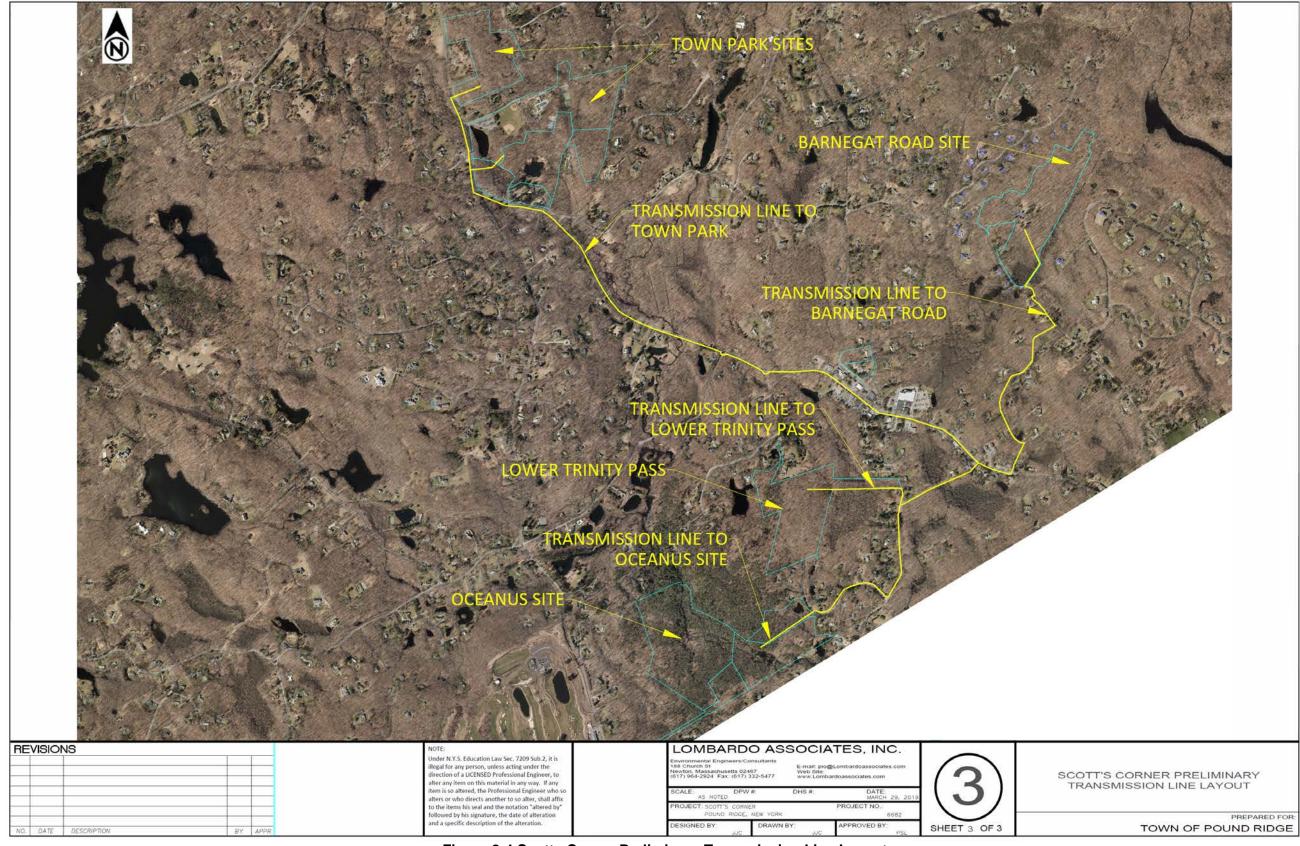
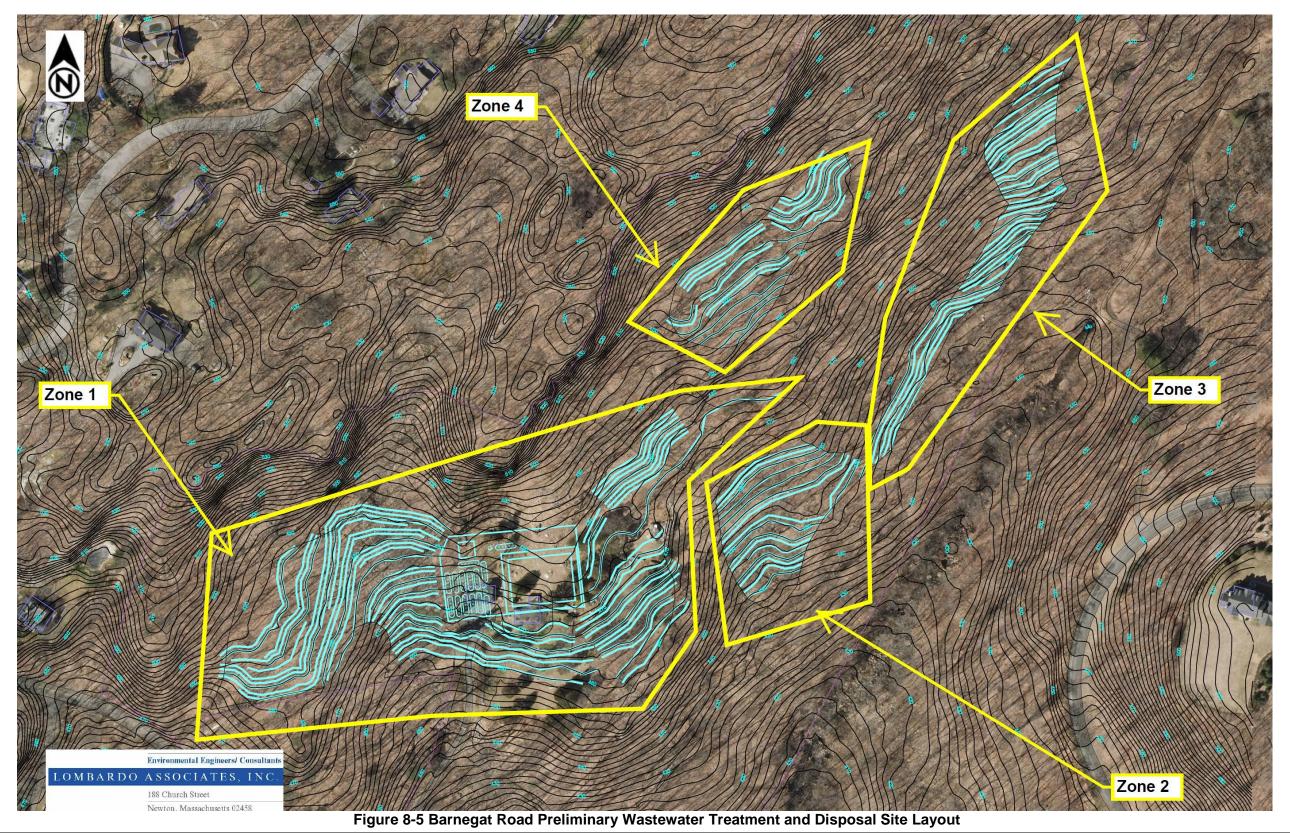


Figure 8-4 Scotts Corner Preliminary Transmission Line Layout



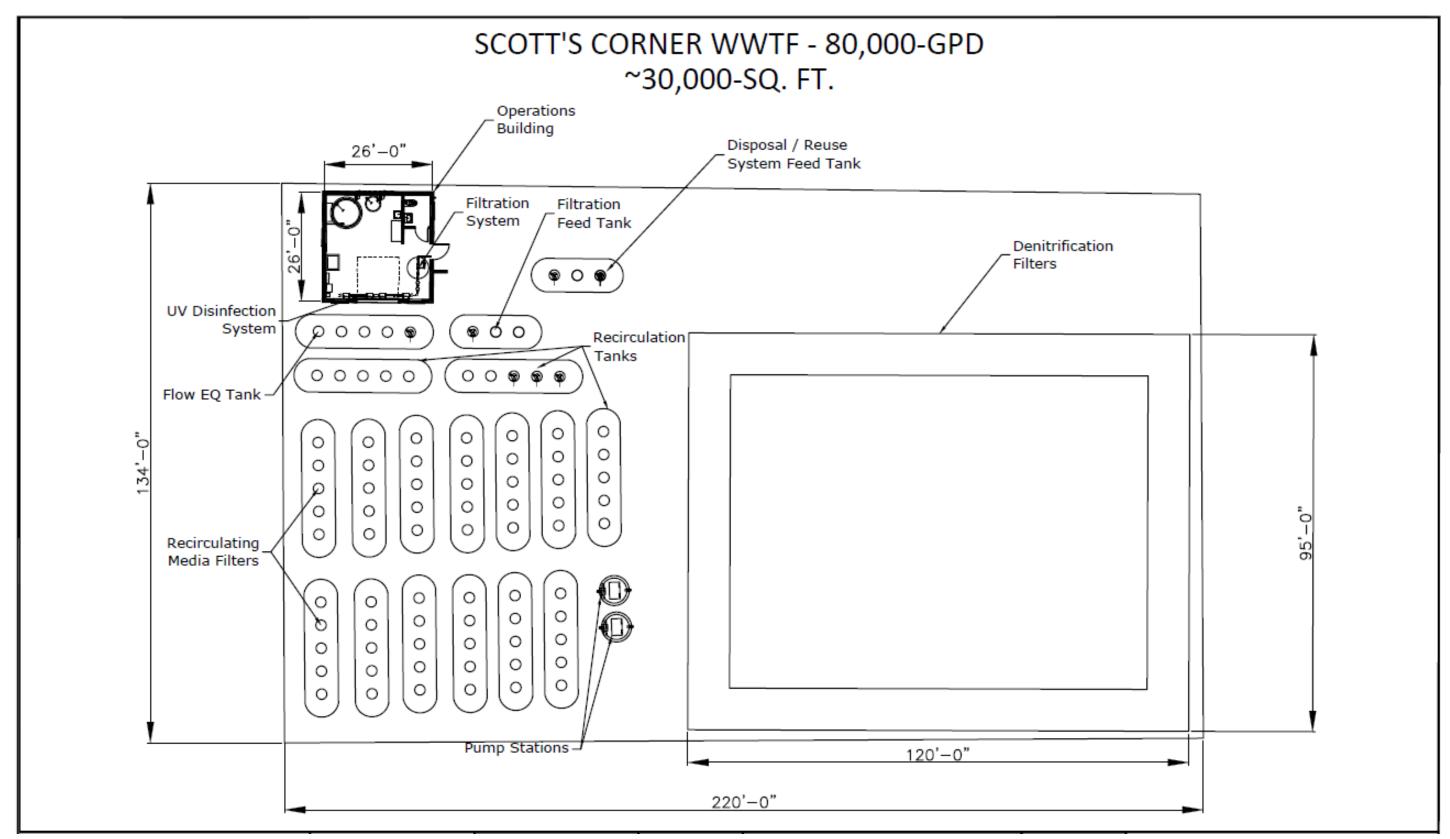


Figure 8-6 80,000-gpd Wastewater Treatment System Preliminary Layout

Table 8-1 Scotts Corner Wastewater System Opinion of Probable Cost

Scott's Corner Wastewater System Opinion on Probable Cost												
Study Area			•									
# of Dev. Prop.	40											
WW Design Flow (gpd)	80,000	1 EDU = 300 (GPD									
Equivalent EDUs	267											
Item	Size		Qty.	Unit	Unit Cost	Total Cost						
Septic Tanks			30	#								
-	Septic Tank C	ost Subtotal	75,000	gallons	\$4.00	\$300,000						
Grease Traps			5	#								
	Grease Trap C	Cost Subtotal	11,000	gallons	\$4.00	\$44,000						
Property Connections	LF	\$40.00	\$40,216									
Property Laterals - UnPaved			1,187	LF	\$40.00	\$47,480						
Property Laterals - Paved			679	LF	\$55.00	\$37,345						
Main Sewer		4" gravity	3,253	LF	\$60.00	\$195,204						
		6" gravity	1,820	LF	\$70.00	\$127,400						
		2" FM	3,109	LF	\$40.00	\$124,376						
STE Pumps			5	#	\$15,000	\$75,000						
Cleanouts		1 per 200 ft sewer	71	#	\$900	\$63,900						
STE Pump Station	PS-1:8,000 / PS-2:80,000	gpd	2	#	\$100,000	\$200,000						
Asphalt cut, remove and replace	2.5	ft wide	1,137	SF	\$40.00	\$45,500						
Rock Excavation Quantity	Assumes 3' below s	•	3,531	CY	\$200	\$706,204						
		Collection	System Const	ruction Costs		\$2,050,625						
Treatment System	60	\$/gpd	80,000	gpd	\$65	\$5,200,000						
Disposal System	Disposal System 5 \$/gpd 80,000 gpd											
	Basi	ic System Co	nstruction Co	sts - Subtotal		\$7,810,625						
	25%	\$1,952,656										
	Contingency	35%	\$3,417,149									
		Engi	neering / Spe	cial Services	25%	\$3,295,108						
			Total	Capital Costs		\$16,476,000						
	al Cost / EDU	267	\$61,790									

Wastewater Sys	tem - Location	Options Cost	Estimate with	Water Supp	y Costs	
	Site Name	Barnegat	Oceanus	Town Park	Old Pound Rd	Lower Trinity
Item	Unit	9457-12	9320-13.9-12, 9320-13.9-13 & 9320-13.9- 15	9820-1, 9820-2.2, 9820-8, 9820-86	9820-16	9320-28
Basic WW System Capital Cost (from above)	\$	\$16,476,000	\$16,476,000	\$16,476,000	\$16,476,000	\$16,476,000
Land Cost	\$	\$0	\$0	\$0	\$0	\$0
Land Area	acres					
Transmission Pipe Length	LF	5,000	4,200	10,500	11,000	2,800
Transmission Pipe Unit Cost	\$/LF	\$80	\$80	\$80	\$80	\$80
Transmission Pipe Cost	\$	\$400,000	\$336,000	\$840,000	\$880,000	\$224,000
Additional Route Unit Costs	\$/LF	\$30	\$20	\$30	\$30	\$20
Additional Route Costs	\$	\$150,000	\$84,000	\$315,000	\$330,000	\$56,000
Site Development	LS	\$400,000	\$300,000	\$500,000	\$400,000	\$400,000
Contingency	25%	\$237,500	\$180,000	\$413,750	\$402,500	\$170,000
WW Site Option Sub-Total	\$	\$1,187,500	\$900,000	\$2,068,750	\$2,012,500	\$850,000
Total WW Option Total	\$	\$17,663,500	\$17,376,000	\$18,544,750	\$18,488,500	\$17,326,000
Water Supply		\$9,251,000	\$9,251,000	\$9,251,000	\$9,251,000	\$9,251,000
Uncertainty Allowance		\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000
Grand Total	\$	\$30,914,500	\$30,627,000	\$31,795,750	\$31,739,500	\$30,577,000
Increase above lowest Cost		\$337,500	\$50,000	\$1,218,750	\$1,162,500	\$0
Change vs Town Park		-\$881,250	-\$1,168,750	\$0	-\$56,250	-\$1,218,750
Total \$ / EDU	\$	\$115,929	\$114,851	\$119,234	\$119,023	\$114,663

8.5 ENERGY EFFICIENCY CONSIDERATIONS

The wastewater collection system is predominately a gravity collection system. The wastewater treatment system uses low energy – passive techniques for wastewater purification.

8.6 IMPACT OF CLIMATE CHANGE / RESILIENCY

Climate change is not expected to impact the project as the properties are well above flood plain elevations and not near coastal areas.

8.7 RISK CONSIDERATIONS

As the proposed wastewater and water supply infrastructure will be new, there will be little risk to critical infrastructure. Existing facilities will be abandoned in place in accordance with County / State regulations. A wastewater and water supply connection plan will be developed so that properties have continuous service.

9. WATER SYSTEM - PRELIMINARY ENGINEERING AND COST ESTIMATES

9.1 PRELIMINARY ENGINEERING

This section presents the preliminary engineering design and layout for a water supply system to serve the Scotts Corner Study Area. The water supply options are:

- ✓ Connection to Aquarion Water Company system which has a water tank at the Pound Ridge Golf Course. That is the only location that Aquarion can supply from.
- ✓ Scotts Corner Water Supply Treatment System According to the December 21, 1973 Agreement, Section 13) between the Town and Stamford Water Company (now Aquarion), the Town has "the right, privilege and priority to draw water from the Siscowit Reservoir.....For that limited purpose the Town shall be deemed to have a perpetual easement over the Water Company property to locate pump house, pipes and other equipment..."

Pending negotiations with Aquarion for the Town to tap into the Aquarion water supply system at / near the water tank, the proposed water supply system would be fed from the Aquarion Water Company water tank located at the Pound Ridge Golf Course, then north along High Ridge Road to Upper Shad Road east to Westchester Avenue and then south to end at 21 Westchester Avenue.

Figure 9-1 presents the preliminary water system layout from the Pound Ridge Golf Course to the end of Scotts Corner. An 8" water supply line is assumed, pending information from Aquarion on supply pressure and ability to supply fire flows. Figure 9-2 is a magnified view of the water system layout within Scotts Corner, including all house connections and street crossings within Scotts Corner.

The Pound Ridge Volunteer Fire Department has indicated that it needs 5,000 gpm for two (2) hours for fire flow requirements. The degree to which this is addressed by the Aquarion connection at the Golf Course or a new Water Treatment Plant supplied by the Siscowit Reservoir or a Fire Flow Water Storage Facility or a combination of sources is to be determined during design.

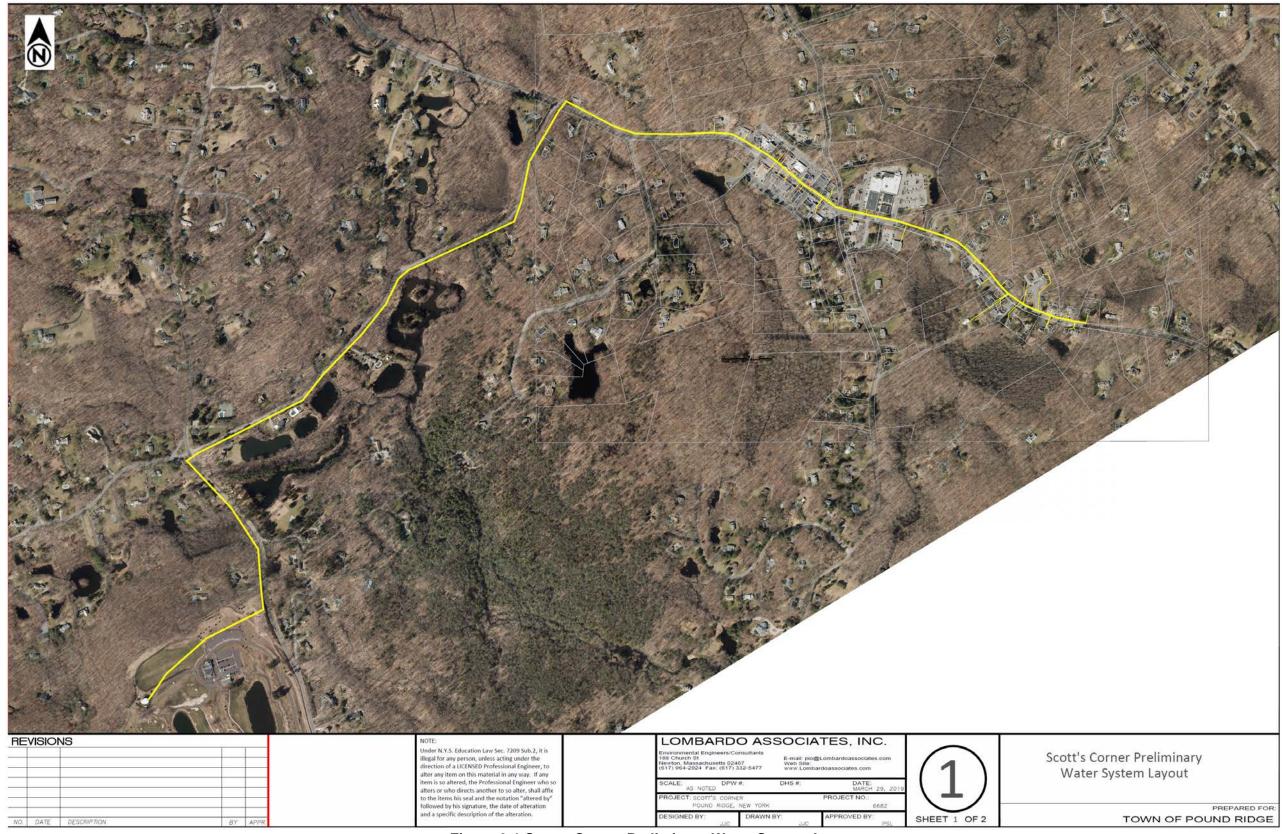


Figure 9-1 Scotts Corner Preliminary Water System Layout



Figure 9-2 Scotts Corner Preliminary Water System Layout

9.2 SYSTEM CAPITAL COST

Table 9-1 presents our opinion of capital cost for the water supply system.

Table 9-1 Scotts Corner Water System Opinion of Probable Capital Cost

Sco	Scott's Corner Water System Opinion of Probable Cost												
# of Dev. Prop.	40												
Average Water Demand (gpd)	40,000	150	per EDU										
Equivalent EDUs	267												
Item	Size		Qty.	Unit	Unit Cost	Total Cost							
Hook Up Charge			1	LS	\$100,000	\$100,000							
System Improvements			1	LS	\$500,000	\$500,000							
Water Main	8" - 10"		12,000	ft.	\$125	\$1,500,000							
Street Crossings			550	ft.	\$200	\$110,000							
House Connections			3,100	ft.	\$75	\$232,500							
Hydrants	1/200 ft.		60	hydrants	\$10,000	\$600,000							
Pavement Removal and replacement	3' trench excavations		4,000	SY	\$40	\$160,000							
Rock Excavation Quantity	Assumes 4' t below su		5,333	CY	\$200	\$1,066,667							
Start Up Cost			1	LS	\$200,000	\$200,000							
				Misc	35%	\$1,564,208							
			Co	ntingency	40%	\$1,787,667							
	nt / Admin	7%	\$312,842										
	25%	\$1,117,292											
				pital Costs		\$9,251,000							
		Tota	al Capital (Cost / EDU	267	\$34,690							

¹Results in 3' of rock excavation

9.3 ANNUAL O&M COSTS

Table 9-2 presents our opinion of annual O&M cost for the water supply system

Table 9-2 Scotts Corner Water Supply System Opinion of Probable Annual O&M Cost

Scott's Corner Annual O&M Estimate										
Cost/EDU	#EDUs	Total O&M Costs								
\$750	267	\$	200,000							

10. FINANCING, USER CHARGES, PUBLIC PARTICIPATION & IMPLEMENTATION PLAN

10.1 LEGAL & FINANCING

It is proposed that Water Supply and Wastewater Districts (individually or combined) would be established by the Town for the Study Area under Town Law Article 12, Section 190-C for Water District and Town Law Article 12. While different options exist, pertinent Sections of the enabling law are presented below.

Town Law Section 190-C Preparation of maps and plans

Upon a petition signed, and acknowledged or proved in the same manner as a deed to be recorded, or authenticated in the manner provided by the election law for the authentication of nominating petitions, by at least twenty-five owners of taxable real property situated within each water district or water supply district proposed to be included in a water storage and distribution district or by five per centum of the owners of taxable real property situated within each such district, whichever shall be less, or, in the case of a water district governed by a separate board of commissioners, by a majority of such board, the town board shall, or on its own motion, after a public hearing, may, make a study of the proposal and for such purpose it may assemble data relating to the water resources available to the town and

Section 190-D Procedure for establishment of a sewage disposal district

All of the provisions of section one hundred ninety-c of this chapter, relating to the preparation of maps and plans and establishment of a water storage and distribution district, shall apply to the preparation of maps and plans and establishment of a sewage disposal district, except that in the case of a sewage disposal district, the map and plan shall show the mode of constructing the proposed sewer facilities and the location thereof, including trunk, interceptor and outfall sewers, pumping stations and sewage treatment and disposal works.

The Districts are proposed to be Enterprise Funds in which the users pay all costs and the District is a separate legal and financial entity. At this time there are no financials on the to be formed District(s).

As there are numerous financing options for the District(s), for simplicity purposes financing will be perceived as:

- ✓ Grants from outside of Service Areas Users.
- ✓ Bond financing of the balance and payment by users based upon their allocated capacity, using a 30 year bond at 4%, which results in an annual amortization factor of 0.0578

10.2 USER CHARGES

Table 10-1 presents, by property, the prorated (based upon flow capacity allocation) wastewater system capital costs and annual wastewater system user charges:

- Assuming various level of grant assistance from 0% to 75%
- No connect fees

No variation to existing vs future flows

Table 10-2 presents typical user charges for several property use options, such as seats/restaurant, store floor area, and apartments.

Tables 10-3 presents the water system estimated capital costs and user charges by property at various grant levels.

Table 10-4 presents the estimated user charges of the combined water and wastewater systems by property at various grant levels.

10.3 IMPLEMENTATION PLAN & DRAFT SCHEDULE

The Project Implementation consists of the major activities, some of which are done concurrently, as listed and illustrated on Figure 10-5 Draft - Implementation Schedule.

10.4 Public Participation

Throughout the preparation of the Engineering Plan, the Town's Water / Wastewater Task Force (WWTF) has interacted with the Lombardo Associates, Inc. Engineers preparing this Engineering Plan. In addition to meetings, the WWTF provided review comments on the draft April 15, 2019 and May 20, 2019 Reports.

Appendix C contains the Smart Growth and Sexual Harassment Forms.

Table 10-1 Property Wastewater System Capital Costs & User Charges By Address

				Usage	ww		Flow Based		Total Cap	ital Cost		Flow-Based Annual User Charge				
Parcel #	Property Address	Tenant	Use	Rate (gpd/unit)	Design Flow	# of EDU's	Annual O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	No Grants	25% Grant	50% Grant	75% Grant	
9454-36	89 Westchester Ave	PR Ambulance Corps	community facility	0.1	130	0.43	\$367	\$51,509	\$38,632	\$25,755	\$12,877	\$3,350	\$2,600	\$1,860	\$1,110	
9454-5	87 Westchester Ave	Avant Garden	retail	0.1	144	0.48	\$409	\$57,391	\$43,043	\$28,696	\$14,348	\$3,730	\$2,900	\$2,070	\$1,240	
9454-6	85 Westchester Ave	North Star	restaurant	35.0	1,750	5.83	\$4,958	\$695,532	\$521,649	\$347,766	\$173,883	\$45,180	\$35,130	\$25,070	\$15,010	
9454-6	85 Westchester Ave	North Star	office	0.1	136	0.45	\$385	\$54,063	\$40,547	\$27,032	\$13,516	\$3,510	\$2,730	\$1,950	\$1,170	
9454-7	83 Westchester Ave	Albano Appliance	retail	0.1	614	2.05	\$1,739	\$243,948	\$182,961	\$121,974	\$60,987	\$15,850	\$12,320	\$8,790	\$5,270	
9454-7	83A,&B Westchester Ave	Above Albano Appliance	apartments	110.0	440	1.47	\$1,247	\$174,877	\$131,157	\$87,438	\$43,719	\$11,360	\$8,830	\$6,300	\$3,770	
9454-7	83C&D Westchester Ave	Albano Appliance	office	0.1	229	0.76	\$649	\$91,025	\$68,269	\$45,513	\$22,756	\$5,910	\$4,600	\$3,280	\$1,960	
9454-8	79 Westchester Ave	Dynax	office	0.1	187	0.62	\$530	\$74,402	\$55,802	\$37,201	\$18,601	\$4,830	\$3,760	\$2,680	\$1,610	
9454-9	77 Westchester Ave	Vacant	Vacant	400.0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
9454-9	77A Westchester Ave	Vacant	Vacant	110.0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
9454-35	NA	Parking	Parking	0.0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
9454-10	73 Westchester Ave	Healthy Home Foods	Retail / Food Prep	0.1	420	1.40	\$1,190	\$166,928	\$125,196	\$83,464	\$41,732	\$10,840	\$8,430	\$6,020	\$3,600	
9454-10	73 Westchester Ave	Pound Ridge Dentistry	Medical Office	250.0	250	0.83	\$708	\$99,362	\$74,521	\$49,681	\$24,840	\$6,450	\$5,020	\$3,580	\$2,140	
9454-11	71 Westchester Ave	Kitchen Table	restaurant	35.0	875	2.92	\$2,479	\$347,766	\$260,825	\$173,883	\$86,942	\$22,590	\$17,560	\$12,530	\$7,510	
	71 Westchester Ave	Wine Store	retail	0.1	194	0.65	\$549	\$77,065	\$57,799	\$38,532	\$19,266	\$5,010	\$3,890	\$2,780	\$1,660	
9454-11	69 Westchester Ave	La Familia	restaurant	35.0	1,400	4.67	\$3,967	\$556,426	\$417,319	\$278,213	\$139,106	\$36,140	\$28,100	\$20,060	\$12,010	
	69 Westchester Ave	Martin House	Office	0.1	307	1.02	\$870	\$122,066	\$91,549	\$61,033	\$30,516	\$7,930	\$6,160	\$4,400	\$2,630	
	69 Westchester Ave	Summit Company	Office	0.1	307	1.02	\$870	\$122,066	\$91,549	\$61,033	\$30,516	\$7,930	\$6,160	\$4,400	\$2,630	
	67 Westchester Ave	Above Retail	apartments	110.0	220	0.73	\$623	\$87,438	\$65,579	\$43,719	\$21,860	\$5,680	\$4,420	\$3,150	\$1,890	
	67 Westchester Ave	The Cottage / Booksy	retail	0.1	282	0.94	\$798	\$111,921	\$83,941	\$55,961	\$27,980	\$7,270	\$5,650	\$4,030	\$2,420	
	4 Trinity Pass Rd.	Vacant	Vacant	0.1	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
_	65A,B Westchester Ave	Kahlo	retail	0.1	117	0.39	\$332	\$46,640	\$34,980	\$23,320	\$11,660	\$3,030	\$2,360	\$1,680	\$1,010	
	65A,B Westchester Ave	Above Kahlo	apartments	110.0	440	1.47	\$1,247	\$174,877	\$131,157	\$87,438	\$43,719	\$11,360	\$8,830	\$6,300	\$3,770	
	Westchester Ave	Parking	parking w/2 shed	0.0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	80 Westchester Ave	Fire Department	community facility	0.1	708	2.36	\$2,005	\$281,233	\$210,925	\$140,617	\$70,308	\$18,270	\$14,200	\$10,140	\$6,070	
		·	Food Prep	0.1	223	0.74	\$633	\$88,800	\$66,600	\$44,400	\$22,200	\$5,770	\$4,480	\$3,200	\$1,920	
9320-59	78 Westchester Ave	123 Dough	Employees	15.0	60	0.20	\$170	\$23,847	\$17,885	\$11,923	\$5,962	\$1,550	\$1,200	\$860	\$510	
9320-59	78 Westchester Ave	Miller's Landscape	office	0.1	74	0.25	\$211	\$29,600	\$22,200	\$14,800	\$7,400	\$1,920	\$1,490	\$1,070	\$640	
	76 Westchester Ave	Dinardos	restaurant	35.0	2,100	7.00	\$5,950	\$834,638	\$625,979	\$417,319	\$208,660	\$54,220	\$42,150	\$30,080	\$18,020	
	76 Westchester Ave	Vacant	Vacant	0.1	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	76 Westchester Ave	above Dinardos	apartments	110.0	440	1.47	\$1,247	\$174,877	\$131,157	\$87,438	\$43,719	\$11,360	\$8,830	\$6,300	\$3,770	
	74 Westchester Ave	Blind Charlies	restaurant	35.0	1,750	5.83	\$4,958	\$695,532	\$521,649	\$347,766	\$173,883	\$45,180	\$35,130	\$25,070	\$15,010	
	74 Westchester Ave	Jacob Allen	Spa	20.0	200	0.67	\$567	\$79,489	\$59,617	\$39,745	\$19,872	\$5,160	\$4,010	\$2,870	\$1,720	
9320-61	74 Westchester Ave	O'Donnell	Retail	0.1	199	0.66	\$565	\$79,191	\$59,393	\$39,596	\$19,798	\$5,140	\$4,000	\$2,850	\$1,710	
		above Blind Charlies	apartments	110.0	660	2.20	\$1,870	\$262,315	\$196,736	\$131,157	\$65,579	\$17,040	\$13,250	\$9,450	\$5,660	
	72 Westchester Ave	PR Dry Cleaners	retail	0.1	238	0.79	\$673	\$94,394	\$70,795	\$47,197	\$23,598	\$6,130	\$4,770	\$3,400	\$2,040	
		,	Food Prep	0.1	119	0.40	\$336	\$47,197	\$35,398	\$23,598	\$11,799	\$3,070	\$2,380	\$1,700	\$1,020	
9320-62	72 Westchester Ave	Plum Plum's	Employees	15.0	60	0.20	\$170	\$23,847	\$17,885	\$11,923	\$5,962	\$1,550	\$1,200	\$860	\$510	
9320-62	72 Westchester Ave	Nephawa	retail	0.1	119	0.40	\$336	\$47,197	\$35,398	\$23,598	\$11,799	\$3,070	\$2,380	\$1,700	\$1,020	
9320-62	72 A & B Westchester Ave	above PR Dry Cleaners	apartment	110.0	220	0.73	\$623	\$87,438	\$65,579	\$43,719	\$21,860	\$5,680	\$4,420	\$3,150	\$1,890	

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Table 10-1, Continued

							Flow Posed		Total Carr	ital Cast		Flow-Based Annual User Charge				
Dorsol #	Dranasti, Addraga	Tenant	Use	Usage	WW	# of	Flow Based		Total Cap	ortal Cost	1	FIOW	/-Based Ann	uai User Ch	arge	
Parcel #	Property Address	renant	Use	Rate (gpd/unit)	Design Flow	EDU's	Annual O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	No Grants	25% Grant	50% Grant	75% Grant	
9320-63	70 Westchester Ave	above retail	apartments	110.0	220	0.73	\$623	\$87,438	\$65,579	\$43,719	\$21,860	\$5,680	\$4,420	\$3,150	\$1,890	
9320-63	70 Westchester Ave	Barber	Barber	250.0	250	0.83	\$708	\$99,362	\$74,521	\$49,681	\$24,840	\$6,450	\$5,020	\$3,580	\$2,140	
9320-63	70 Westchester Ave	P. Queens, Avalon Ins, Hedg., PR Home	retail / Office	0.1	103	0.34	\$292	\$40,921	\$30,691	\$20,461	\$10,230	\$2,660	\$2,070	\$1,470	\$880	
9320-64	68 Westchester Ave	Chubby's	retail	0.1	346	1.15	\$981	\$137,576	\$103,182	\$68,788	\$34,394	\$8,940	\$6,950	\$4,960	\$2,970	
9320-64	68 A,B,C,&D Westchester Ave	above Chubby's	apartments	110.0	660	2.20	\$1,870	\$262,315	\$196,736	\$131,157	\$65,579	\$17,040	\$13,250	\$9,450	\$5,660	
9320-65	66 Westchester Ave	gas station	auto repair	400.0	800	2.67	\$2,267	\$317,958	\$238,468	\$158,979	\$79,489	\$20,650	\$16,060	\$11,460	\$6,860	
455-18.9	26 Lower Trinity Pass	Joiquim Felice	Home	110.0	440	1.47	\$1,247	\$174,877	\$131,157	\$87,438	\$43,719	\$11,360	\$8,830	\$6,300	\$3,770	
9455-20	32 Westchester Ave	Wine Connection	retail	0.1	444	1.48	\$1,258	\$176,506	\$132,380	\$88,253	\$44,127	\$11,470	\$8,910	\$6,360	\$3,810	
9455-20	32 Westchester Ave	Above Wine Connection	apartments	110.0	110	0.37	\$312	\$43,719	\$32,789	\$21,860	\$10,930	\$2,840	\$2,210	\$1,580	\$940	
9455-21	34 Westchester Ave	above Antique	apartments	110.0	110	0.37	\$312	\$43,719	\$32,789	\$21,860	\$10,930	\$2,840	\$2,210	\$1,580	\$940	
9455-21	34 Westchester Ave	Antique	retail	0.1	196	0.65	\$557	\$78,078	\$58,559	\$39,039	\$19,520	\$5,070	\$3,940	\$2,810	\$1,690	
9455-27	38 Westchester Ave	Future Value Assoc	office	0.1	176	0.59	\$499	\$69,951	\$52,463	\$34,975	\$17,488	\$4,540	\$3,530	\$2,520	\$1,510	
		Wittus	retail	0.1	270	0.90	\$765	\$107,311	\$80,483	\$53,655	\$26,828	\$6,970	\$5,420	\$3,870	\$2,320	
	,	Helen Famulare Spa	Spa	20.0	400	1.33	\$1,133	\$158,979	\$119,234	\$79,489	\$39,745	\$10,330	\$8,030	\$5,730	\$3,430	
		Private	apartment	110.0	440	1.47	\$1,247	\$174,877	\$131,157	\$87,438	\$43,719	\$11,360	\$8,830	\$6,300	\$3,770	
	,	Roeco	office	0.1	184	0.61	\$520	\$73,010	\$54,757	\$36,505	\$18.252	\$4,740	\$3,690	\$2,630	\$1,580	
	54 Westchester Ave	Asia Hamachi	restaurant	35.0	875	2.92	\$2,479	\$347,766	\$260,825	\$173,883	\$86,942	\$22,590	\$17,560	\$12,530	\$7,510	
	54 Westchester Ave	Dragon Martial Arts	Health Club	20.0	300	1.00	\$850	\$119,234	\$89,426	\$59,617	\$29,809	\$7,750	\$6,020	\$4,300	\$2,570	
9455-25	54 Westchester Ave	Curry & Hovis	retail	0.1	120	0.40	\$340	\$47,694	\$35,770	\$23,847	\$11,923	\$3,100	\$2,410	\$1,720	\$1,030	
	54 Westchester Ave	above Curry & Hovis	apartments	110.0	110	0.37	\$312	\$43,719	\$32,789	\$21,860	\$10,930	\$2,840	\$2,210	\$1,580	\$940	
9455-24	56, 60 Westchester Ave	above retail	apartments	110.0	770	2.57	\$2,182	\$306,034	\$229,526	\$153,017	\$76,509	\$19,880	\$15,460	\$11,030	\$6,610	
9455-24	56, 60 Westchester Ave	Key Bank, Toy Store	retail / Office	0.1	779	2.60	\$2,207	\$309,651	\$232,238	\$154,825	\$77,413	\$20,110	\$15,640	\$11,160	\$6,680	
9456-4	39 Westchester Ave	private	residential	110.0	660	2.20	\$1,870	\$262,315	\$196,736	\$131,157	\$65,579	\$17,040	\$13,250	\$9,450	\$5,660	
	55 57 Westchester Ave	Market, post office, 5 Retail Stores, Office	retail / office	0.1	5,414	18.0	\$15,339	\$2,151,738	\$1,613,803	\$1,075,869	\$537,934	\$139,770	\$108,670	\$77,560	\$46,450	
9455-10	22, 24 Westchester Ave	PR Organics	Retail	0.1	478	1.59	\$1,355	\$190,019	\$142,515	\$95,010	\$47,505	\$12,340	\$9,600	\$6,850	\$4,100	
9455-13	26 Westchester Ave	Above Educators Alley	apartments	110.0	110	0.37	\$312	\$43,719	\$32,789	\$21,860	\$10,930	\$2,840	\$2,210	\$1,580	\$940	
9455-13	26 Westchester Ave	Qualities	retail	0.1	55	0.18	\$156	\$21,830	\$16,372	\$10,915	\$5,457	\$1,420	\$1,100	\$790	\$470	
9455-13	26 Westchester Ave	Educators Alley	office	0.1	110	0.37	\$311	\$43,660	\$32,745	\$21,830	\$10,915	\$2,840	\$2,200	\$1,570	\$940	
9455-14	30 Westchester Ave	private	residential	110.0	110	0.37	\$312	\$43,719	\$32,789	\$21,860	\$10,930	\$2,840	\$2,210	\$1,580	\$940	
9456-8	21 Westchester Ave	private	residential	110.0	440	1.47	\$1,247	\$174,877	\$131,157	\$87,438	\$43,719	\$11,360	\$8,830	\$6,300	\$3,770	
9456-7	23,23A,B Westchester Ave	Kende & London Joiner	retail	0.1	306	1.02	\$868	\$121,698	\$91,274	\$60,849	\$30,425	\$7,910	\$6,150	\$4,390	\$2,630	
9456-6	27 Westchester Ave	above Lion Heart	apartments	110.0	110	0.37	\$312	\$43,719	\$32,789	\$21,860	\$10,930	\$2,840	\$2,210	\$1,580	\$940	
9456-6	27 Westchester Ave	Di Biase Filkoff Architects	Office	0.1	152	0.51	\$430	\$60,332	\$45,249	\$30,166	\$15,083	\$3,920	\$3,050	\$2,170	\$1,300	
9456-5	29 Westchester Ave	A Home	residential	110.0	1,760	5.87	\$4,987	\$699,507	\$524,630	\$349,753	\$174,877	\$45,440	\$35,330	\$25,210	\$15,100	
9456-55	35 Westchester Ave	PR Vet Center	retail	0.1	214	0.71	\$608	\$85,243	\$63,933	\$42,622	\$21,311	\$5,540	\$4,300	\$3,070	\$1,840	
	IN-FILL			1.1	6,365	21.22	\$18,035	\$2,529,910	\$1,897,432	\$1,264,955	\$632,477	\$164,340	\$127,760	\$91,190	\$54,610	
	PM&G		CURRY & HOVIS	2.1	20,000	66.67	\$56,667	\$7,948,938	\$5,961,703	\$3,974,469	\$1,987,234	\$516,350	\$401,430	\$286,510	\$171,590	
	SCOTT'S CORNER MARKET		Market & Post Office	3.1	20,000	66.67	\$56,667	\$7,948,938	\$5,961,703	\$3,974,469	\$1,987,234	\$516,350	\$401,430	\$286,510	\$171,590	
				3,914	80,000	267	\$226,667	\$31,795,750	\$23,846,813	\$15,897,875	\$7,948,938	\$2,065,410	\$1,605,740	\$1,146,010	\$686,290	

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Environmental Engineers/Consultants

Table 10-2 Wastewater System Estimated User Charges by Use

Scott's Corner Wastewater	Scott's Corner Wastewater System - Preliminary Cost Estimates & User Charge No Grants													
267			Pe	er EDU				Store Flo	oor A	Area				
# of EDU in SubArea		Total	-	EDU = 00 gpd		staurant / seat		et Goods / 100 ft²		/ Goods / 100 ft ³		art. / condo - 1,200 sf		
Capital Costs	\$	31,795,750	\$1	119,234	\$	11,923	\$	5,962	\$	1,192	\$	89,649		
Annual O&M Costs	\$	226,668	\$	850	\$	85	\$	43	\$	9	\$	639		
Combined Amortized Capital Costs (@30 yrs. & 4%) & Annual O&M	30 years System - Prelin		\$ 7,745		\$ 775		\$ 387		\$	77	\$	5,824		
Scott's Corner Wastewater System - Preliminary Cost Estimates & User Charge 25% Gran												\$ 7,948,938		
# of EDU in SubArea	Total	1	er EDU EDU = 00 gpd		staurant / seat		Store Floods / 100 ft ²	Dry	Area / Goods / 100 ft ³		art. / condo - 1,200 sf			
Capital Costs	\$	23,846,813	\$	89,425	\$	8,943	\$	4,471	\$	894	\$	67,237		
Annual O&M Costs	\$	226,668	\$	850	\$	85	\$	43	\$	9	\$	639		
Combined Amortized Capital Costs (@30 yrs. & 4%) & Annual O&M	30 years		\$ 6,021		\$ 775		\$ 387		\$ 77		\$	5,824		
Scott's Corner Wastewater	Sys	tem - Prelin	nina	ry Cost E	stin	nates & I	Jser	Charge		50%	Grants	***************************************		
267			Pé	er EDU				Store Flo	oor A	Area				
# of EDU in SubArea		Total	1 EDU = 300 gpd		Restaurant / seat		Wet Goods / 100 ft ²		Dry Goods / 100 ft ³		Per Apart. / cond 601 - 1,200 sf			
Capital Costs	\$	15,897,875	\$	59,617	\$	5,962	\$	2,981	\$	596	\$	44,825		
Annual O&M Costs	\$	226,668	\$	850	\$	85	\$	43	\$	9	\$	639		
Combined Amortized Capital Costs (@30 yrs. & 4%) & Annual O&M		30 years	\$	4,298	\$	430	\$	215	\$	43	\$	3,231		
Scott's Corner Wastewater	Sys	tem - Prelin	nina	ry Cost E	stin	nates & I	Jser	Charge		75%	Grants	***************************************		
267				er EDU				Store Flo	oor A					
# of EDU in SubArea	Total		1	EDU = 00 gpd	l	staurant / seat		et Goods / 100 ft²		/ Goods / 100 ft ³	601	art. / condo - 1,200 sf		
Capital Costs	_	7,948,938	<u> </u>	29,808	\$	2,981	\$	1,490	\$	298	\$	22,412		
Annual O&M Costs	\$	226,668	\$	850	\$	85	\$	43	\$	9	\$	639		
Combined Amortized Capital Costs (@30 yrs. & 4%) & Annual O&M		30 years	\$	2,574	\$	257	\$	129	\$	26	\$	1,935		

Table 10-3 Property Water System Capital Costs and User Charges – By Address

				Final Water		Flow Based		Total Car	oital Cost		Flow-Based Annual User Charge			
Parcel #	Property Address	Tenant	Use	Design	# of	Annual					No	25%	50%	75%
				Flow (gpd)	EDU's	O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	Grants	Grant	Grant	Grant
9454-36	89 Westchester Ave	PR Ambulance Corps	community facility	65	0.43	\$367	\$14,987	\$11,240	\$7,493	\$3,747	\$1,230	\$1,020	\$800	\$580
9454-5	87 Westchester Ave	Avant Garden	retail	72	0.48	\$409	\$16,698	\$12,524	\$8,349	\$4,175	\$1,370	\$1,130	\$890	\$650
9454-6	85 Westchester Ave	North Star	restaurant	875	5.83	\$4,958	\$202,366	\$151,774	\$101,183	\$50,591	\$16,660	\$13,740	\$10,810	\$7,880
9454-6	85 Westchester Ave	North Star	office	68	0.45	\$385	\$15,730	\$11,797	\$7,865	\$3,932	\$1,300	\$1,070	\$840	\$610
9454-7	83 Westchester Ave	Albano Appliance	retail	307	2.05	\$1,739	\$70,977	\$53,233	\$35,488	\$17,744	\$5,840	\$4,820	\$3,790	\$2,770
9454-7	83A,&B Westchester Ave	Above Albano	apartments	220	1.47	\$1,247	\$50,881	\$38,160	\$25,440	\$12,720	\$4,190	\$3,450	\$2,720	\$1,980
9454-7	83C&D Westchester Ave	Albano Appliance	office	115	0.76	\$649	\$26,484	\$19,863	\$13,242	\$6,621	\$2,180	\$1,800	\$1,410	\$1,030
9454-8	79 Westchester Ave	Dynax	office	94	0.62	\$530	\$21,647	\$16,236	\$10,824	\$5,412	\$1,780	\$1,470	\$1,160	\$840
9454-9	77 Westchester Ave	Vacant	Vacant	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-9	77A Westchester Ave	Vacant	Vacant	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-35	NA	Parking	Parking	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-10	73 Westchester Ave	Healthy Home Foods	Retail / Food Prep	210	1.40	\$1,190	\$48,568	\$36,426	\$24,284	\$12,142	\$4,000	\$3,300	\$2,590	\$1,890
9454-10	73 Westchester Ave	Pound Ridge Dentistry	Medical Office	125	0.83	\$708	\$28,909	\$21,682	\$14,455	\$7,227	\$2,380	\$1,960	\$1,540	\$1,130
9454-11	71 Westchester Ave	Kitchen Table	restaurant	438	2.92	\$2,479	\$101,183	\$75,887	\$50,591	\$25,296	\$8,330	\$6,870	\$5,400	\$3,940
9454-11	71 Westchester Ave	Wine Store	retail	97	0.65	\$549	\$22,422	\$16,817	\$11,211	\$5,606	\$1,850	\$1,520	\$1,200	\$870
9454-11	69 Westchester Ave	La Familia	restaurant	700	4.67	\$3,967	\$161,893	\$121,419	\$80,946	\$40,473	\$13,330	\$10,990	\$8,650	\$6,310
9454-11	69 Westchester Ave	Martin House	Office	154	1.02	\$870	\$35,515	\$26,636	\$17,758	\$8,879	\$2,920	\$2,410	\$1,900	\$1,380
9454-12	69 Westchester Ave	Summit Company	Office	154	1.02	\$870	\$35,515	\$26,636	\$17,758	\$8,879	\$2,920	\$2,410	\$1,900	\$1,380
9454-13	67 Westchester Ave	Above Retail	apartments	110	0.73	\$623	\$25,440	\$19,080	\$12,720	\$6,360	\$2,090	\$1,730	\$1,360	\$990
9454-13	67 Westchester Ave	The Cottage / Booksy	retail	141	0.94	\$798	\$32,564	\$24,423	\$16,282	\$8,141	\$2,680	\$2,210	\$1,740	\$1,270
9454-14	4 Trinity Pass Rd.	Vacant	Vacant	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-15	65A,B Westchester Ave	Kahlo	retail	59	0.39	\$332	\$13,570	\$10,178	\$6,785	\$3,393	\$1,120	\$920	\$720	\$530
9454-15	65A,B Westchester Ave	Above Kahlo	apartments	220	1.47	\$1,247	\$50,881	\$38,160	\$25,440	\$12,720	\$4,190	\$3,450	\$2,720	\$1,980
	Westchester Ave	Parking	parking w/2 shed	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9320-58	80 Westchester Ave	Fire Department	community facility	354	2.36	\$2,005	\$81,825	\$61,369	\$40,913	\$20,456	\$6,740	\$5,550	\$4,370	\$3,190
0220 50	70 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	133 Davish	Food Prep	112	0.74	\$633	\$25,836	\$19,377	\$12,918	\$6,459	\$2,130	\$1,750	\$1,380	\$1,010
9320-59	78 Westchester Ave	123 Dough	Employees	30	0.20	\$170	\$6,938	\$5,204	\$3,469	\$1,735	\$570	\$470	\$370	\$270
9320-59	78 Westchester Ave	Miller's Landscape	office	37	0.25	\$211	\$8,612	\$6,459	\$4,306	\$2,153	\$710	\$580	\$460	\$340
9320-60	76 Westchester Ave	Dinardos	restaurant	1,050	7.00	\$5,950	\$242,839	\$182,129	\$121,419	\$60,710	\$19,990	\$16,480	\$12,970	\$9,460
9320-60	76 Westchester Ave	Vacant	Vacant	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9320-60	76 Westchester Ave	above Dinardos	apartments	220	1.47	\$1,247	\$50,881	\$38,160	\$25,440	\$12,720	\$4,190	\$3,450	\$2,720	\$1,980
9320-61	74 Westchester Ave	Blind Charlies	restaurant	875	5.83	\$4,958	\$202,366	\$151,774	\$101,183	\$50,591	\$16,660	\$13,740	\$10,810	\$7,880
9320-61	74 Westchester Ave	Jacob Allen	Spa	100	0.67	\$567	\$23,128	\$17,346	\$11,564	\$5,782	\$1,900	\$1,570	\$1,240	\$900
9320-61	74 Westchester Ave	O'Donnell	Retail	100	0.66	\$565	\$23,041	\$17,281	\$11,520	\$5,760	\$1,900	\$1,560	\$1,230	\$900
9320-61	74 A,B,C,&D Westchester Ave	above Blind Charlies	apartments	330	2.20	\$1,870	\$76,321	\$57,241	\$38,160	\$19,080	\$6,280	\$5,180	\$4,080	\$2,970
	72 Westchester Ave	PR Dry Cleaners	retail	119	0.79	\$673	\$27,464	\$20,598	\$13,732	\$6,866	\$2,260	\$1,860	\$1,470	\$1,070
		,	Food Prep	59	0.40	\$336	\$13,732	\$10,299	\$6,866	\$3,433	\$1,130	\$930	\$730	\$530
9320-62	72 Westchester Ave	Plum Plum's	Employees	30	0.20	\$170	\$6,938	\$5,204	\$3,469	\$1,735	\$570	\$470	\$370	\$270
9320-62	72 Westchester Ave	Nephawa	retail	59	0.40	\$336	\$13,732	\$10,299	\$6,866	\$3,433	\$1,130	\$930	\$730	\$530
	72 A & B Westchester Ave	above PR Dry Cleaners	apartment	110	0.73	\$623	\$25,440	\$19,080	\$12,720	\$6,360	\$2,090	\$1,730	\$1.360	\$990

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Table 10-4, Continued

			1 4510	10-4, 00										
				Final Water	# of	Flow Based		Total Cap	oital Cost	ı			ual User	
Parcel #	Property Address	Tenant	Use	Design Flow (gpd)	EDU's	Annual O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	No Grants	25% Grant	50% Grant	75% Grant
9320-63	70 Westchester Ave	above retail	apartments	110	0.73	\$623	\$25,440	\$19,080	\$12,720	\$6,360	\$2,090	\$1,730	\$1,360	\$990
9320-63	70 Westchester Ave	Barber	Barber	125	0.83	\$708	\$28,909	\$21,682	\$14,455	\$7,227	\$2,380	\$1,960	\$1,540	\$1,130
9320-63	70 Westchester Ave	P. Queens, Avalon Ins, Hedg., PR Home	retail / Office	51	0.34	\$292	\$11,906	\$8,930	\$5,953	\$2,977	\$980	\$810	\$640	\$460
9320-64	68 Westchester Ave	Chubby's	retail	173	1.15	\$981	\$40,028	\$30,021	\$20,014	\$10,007	\$3,300	\$2,720	\$2,140	\$1,560
9320-64	68 A,B,C,&D Westchester Ave	above Chubby's	apartments	330	2.20	\$1,870	\$76,321	\$57,241	\$38,160	\$19,080	\$6,280	\$5,180	\$4,080	\$2,970
9320-65	66 Westchester Ave	gas station	auto repair	400	2.67	\$2,267	\$92,510	\$69,383	\$46,255	\$23,128	\$7,620	\$6,280	\$4,940	\$3,600
9455-18.9	26 Lower Trinity Pass	Joiquim Felice	Home	220	1.47	\$1,247	\$50,881	\$38,160	\$25,440	\$12,720	\$4,190	\$3,450	\$2,720	\$1,980
9455-20	32 Westchester Ave	Wine Connection	retail	222	1.48	\$1,258	\$51,355	\$38,516	\$25,677	\$12,839	\$4,230	\$3,490	\$2,740	\$2,000
9455-20	32 Westchester Ave	Above Wine	apartments	55	0.37	\$312	\$12,720	\$9,540	\$6,360	\$3,180	\$1,050	\$860	\$680	\$500
9455-21	34 Westchester Ave	above Antique	apartments	55	0.37	\$312	\$12,720	\$9,540	\$6,360	\$3,180	\$1,050	\$860	\$680	\$500
9455-21	34 Westchester Ave	Antique	retail	98	0.65	\$557	\$22,717	\$17,038	\$11,358	\$5,679	\$1,870	\$1,540	\$1,210	\$890
9455-27	38 Westchester Ave	Future Value Assoc	office	88	0.59	\$499	\$20,352	\$15,264	\$10,176	\$5,088	\$1,680	\$1,380	\$1,090	\$790
9455-28	40, 40A Westchester Ave	Wittus	retail	135	0.90	\$765	\$31,222	\$23,417	\$15,611	\$7,806	\$2,570	\$2,120	\$1,670	\$1,220
9455-28	40, 40A Westchester Ave	Helen Famulare Spa	Spa	200	1.33	\$1,133	\$46,255	\$34,691	\$23,128	\$11,564	\$3,810	\$3,140	\$2,470	\$1,800
9455-28	40, 40A Westchester Ave	Private	apartment	220	1.47	\$1,247	\$50,881	\$38,160	\$25,440	\$12,720	\$4,190	\$3,450	\$2,720	\$1,980
9455-26	46 Westchester Ave	Roeco	office	92	0.61	\$520	\$21,242	\$15,932	\$10,621	\$5,311	\$1,750	\$1,440	\$1,130	\$830
9455-25	54 Westchester Ave	Asia Hamachi	restaurant	438	2.92	\$2,479	\$101,183	\$75,887	\$50,591	\$25,296	\$8,330	\$6,870	\$5,400	\$3,940
9455-25	54 Westchester Ave	Dragon Martial Arts	Health Club	150	1.00	\$850	\$34,691	\$26,018	\$17,346	\$8,673	\$2,860	\$2,350	\$1,850	\$1,350
9455-25	54 Westchester Ave	Curry & Hovis	retail	60	0.40	\$340	\$13,877	\$10,407	\$6,938	\$3,469	\$1,140	\$940	\$740	\$540
9455-25	54 Westchester Ave	above Curry & Hovis	apartments	55	0.37	\$312	\$12,720	\$9,540	\$6,360	\$3,180	\$1,050	\$860	\$680	\$500
9455-24	56, 60 Westchester Ave	above retail	apartments	385	2.57	\$2,182	\$89,041	\$66,781	\$44,520	\$22,260	\$7,330	\$6,040	\$4,760	\$3,470
9455-24	56, 60 Westchester Ave	Key Bank, Toy Store	retail / Office	390	2.60	\$2,207	\$90,093	\$67,570	\$45,047	\$22,523	\$7,420	\$6,120	\$4,810	\$3,510
9456-4	39 Westchester Ave	private	residential	330	2.20	\$1,870	\$76,321	\$57,241	\$38,160	\$19,080	\$6,280	\$5,180	\$4,080	\$2,970
9456-1.9	55, 57 Westchester Ave	Market, post office, 5 Retail Stores, Office	retail / office	2,707	18.0	\$15,339	\$626,050	\$469,537	\$313,025	\$156,512	\$51,540	\$42,490	\$33,440	\$24,390
9455-10	22, 24 Westchester Ave	PR Organics	Retail	239	1.59	\$1,355	\$55,286	\$41,465	\$27,643	\$13,822	\$4,550	\$3,750	\$2,950	\$2,150
9455-13	26 Westchester Ave	Above Educators Alley	apartments	55	0.37	\$312	\$12,720	\$9,540	\$6,360	\$3,180	\$1,050	\$860	\$680	\$500
9455-13	26 Westchester Ave	Qualities	retail	27	0.18	\$156	\$6,351	\$4,764	\$3,176	\$1,588	\$520	\$430	\$340	\$250
9455-13	26 Westchester Ave	Educators Alley	office	55	0.37	\$311	\$12,703	\$9,527	\$6,351	\$3,176	\$1,050	\$860	\$680	\$490
9455-14	30 Westchester Ave	private	residential	55	0.37	\$312	\$12,720	\$9,540	\$6,360	\$3,180	\$1,050	\$860	\$680	\$500
9456-8	21 Westchester Ave	private	residential	220	1.47	\$1,247	\$50,881	\$38,160	\$25,440	\$12,720	\$4,190	\$3,450	\$2,720	\$1,980
9456-7	23,23A,B Westchester Ave	Kende & London Joiner	retail	153	1.02	\$868	\$35,408	\$26,556	\$17,704	\$8,852	\$2,920	\$2,400	\$1,890	\$1,380
9456-6	27 Westchester Ave	above Lion Heart	apartments	55	0.37	\$312	\$12,720	\$9,540	\$6,360	\$3,180	\$1,050	\$860	\$680	\$500
9456-6	27 Westchester Ave	Di Biase Filkoff Architects	Office	76	0.51	\$430	\$17,554	\$13,165	\$8,777	\$4,388	\$1,450	\$1,190	\$940	\$680
9456-5	29 Westchester Ave	A Home	residential	880	5.87	\$4,987	\$203,522	\$152,642	\$101,761	\$50,881	\$16,760	\$13,810	\$10,870	\$7,930
	35 Westchester Ave	PR Vet Center	retail	107	0.71	\$608	\$24,802	\$18,601	\$12,401	\$6,200	\$2,040	\$1,680	\$1,320	\$970
	IN-FILL			3,183	21.22	\$18,035	\$736,079	\$552,059	\$368,040	\$184,020	\$60,600	\$49,960	\$39,320	\$28,680
	PM&G		CURRY & HOVIS	10,000	66.67	\$56,667		\$1,734,563		\$578,188		\$156,980		
	SCOTT'S CORNER MARKET		Market & Post Office	10,000	66.67	\$56,667	 	\$1,734,563	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' 	\$578,188		· · ·	\$123,540	
				40,000	267	\$226,667		\$6,938,250			,,		\$494,150	
				.5,555		7 3,007	+5,252,000	+ 0,000,200	· .,020,000	, -, -, -, -, -, -, -, -, -, -, -, -, -,	7. 01,000	7027,000	7 .5 1,250	7000,000

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Table 10-4 Wastewater & Water Supply Systems User Charge Estimates

					Final Water	# of	Flow Based		Total Cap	oital Cost		Flow	-Based Ann	ual User Ch	narge
Parcel #	Property Address	Tenant	Use	Design	Design Flow	EDU's	Annual O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	No Grants	25% Grant	E0% Grant	75% Grant
0454.26	20.14/2-1-1-2-1-2-1	DD Al. L C		Flow (gpd)		0.42							\$3,620		
9454-36 9454-5	89 Westchester Ave	PR Ambulance Corps	community facility	130 144	65 72	0.43	\$734 \$818	\$66,496 \$74,089	\$49,872 \$55,567	\$33,248 \$37.045	\$16,624 \$18.522	\$4,580 \$5,100	\$4,030	\$2,660 \$2,960	\$1,690 \$1,890
9454-6	87 Westchester Ave 85 Westchester Ave	Avant Garden North Star	retail	1750	875	5.83	\$9,917	\$897,898	\$673,423	\$448,949	\$18,522	\$61,840	\$48,870	\$35,880	\$1,890
9454-6	85 Westchester Ave	North Star	restaurant office	136	68	0.45	\$9,917	\$69,793	\$52,345	\$34,896	\$17,448	\$4,810	\$3,800	\$35,880	\$22,890
9454-6	83 Westchester Ave	Albano Appliance	retail	614	307	2.05	\$3,478	\$314.925	\$236,193	\$157,462	\$17,448	\$4,810	\$17,140	\$2,790	\$8,040
9454-7	83A,&B Westchester Ave	Above Albano Appliance	apartments	440	220	1.47	\$2,493	\$225,757	\$169,318	\$137,462	\$56,439	\$15,550	\$17,140	\$9,020	\$5,750
9454-7	83C&D Westchester Ave	Albano Appliance	office	229	115	0.76	\$1,298	\$117,509	\$88,132	\$58,755	\$29,377	\$8,090	\$6,400	\$4,690	\$2,990
9454-8	79 Westchester Ave	Dynax	office	187	94	0.62	\$1,061	\$96,049	\$72,037	\$48,025	\$24,012	\$6,610	\$5,230	\$3,840	\$2,450
9454-9	77 Westchester Ave	Vacant	Vacant	0	0	0.02	\$0	\$0	\$0	\$0	\$0	\$0,010	\$0	\$0	\$0
9454-9	77 Westchester Ave	Vacant	Vacant	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-35	NA NA	Parking	Parking	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-10	73 Westchester Ave	Healthy Home Foods	Retail / Food Prep	420	210	1.40	\$2,380	\$215,495	\$161,622	\$107,748	\$53,874	\$14,840	\$11,730	\$8,610	\$5,490
9454-10	73 Westchester Ave	Pound Ridge Dentistry	Medical Office	250	125	0.83	\$1,417	\$128,271	\$96,203	\$64,136	\$32,068	\$8,830	\$6,980	\$5,120	\$3,270
9454-11	71 Westchester Ave	Kitchen Table	restaurant	875	438	2.92	\$4,958	\$448.949	\$336.712	\$224,474	\$112.237	\$30,920	\$24,430	\$17,930	\$11.450
9454-11	71 Westchester Ave	Wine Store	retail	194	97	0.65	\$1,099	\$99,487	\$74,615	\$49,744	\$24,872	\$6,860	\$5,410	\$3,980	\$2,530
9454-11	69 Westchester Ave	La Familia	restaurant	1400	700	4.67	\$7,933	\$718,318	\$538,739	\$359,159	\$179,580	\$49,470	\$39,090	\$28,710	\$18,320
9454-11	69 Westchester Ave	Martin House	Office	307	154	1.02	\$1,740	\$157,581	\$118,186	\$78,791	\$39,395	\$10,850	\$8,570	\$6,300	\$4,010
9454-12	69 Westchester Ave	Summit Company	Office	307	154	1.02	\$1,740	\$157,581	\$118,186	\$78,791	\$39,395	\$10,850	\$8,570	\$6,300	\$4,010
9454-13	67 Westchester Ave	Above Retail	apartments	220	110	0.73	\$1,247	\$112,879	\$84,659	\$56,439	\$28,220	\$7,770	\$6,150	\$4,510	\$2,880
9454-13	67 Westchester Ave	The Cottage / Booksy	retail	282	141	0.94	\$1,596	\$144,485	\$108,363	\$72,242	\$36,121	\$9,950	\$7,860	\$5,770	\$3,690
9454-14	4 Trinity Pass Rd.	Vacant	Vacant	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9454-15	65A,B Westchester Ave	Kahlo	retail	117	59	0.39	\$665	\$60,210	\$45,158	\$30,105	\$15,053	\$4,150	\$3,280	\$2,400	\$1,540
9454-15	65A,B Westchester Ave	Above Kahlo	apartments	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9320-56	Westchester Ave	Parking	parking w/2 shed	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9320-58	80 Westchester Ave	Fire Department	community facility	708	354	2.36	\$4,010	\$363,059	\$272,294	\$181,529	\$90,765	\$25,010	\$19,750	\$14,510	\$9,260
9320-59	78 Westchester Ave	123 Dough	Food Prep	223	112	0.74	\$1,266	\$114,636	\$85,977	\$57,318	\$28,659	\$7,900	\$6,230	\$4,580	\$2,930
9320-39	78 Westchester Ave	123 Dougii	Employees	60	30	0.20	\$340	\$30,785	\$23,089	\$15,393	\$7,696	\$2,120	\$1,670	\$1,230	\$780
9320-59	78 Westchester Ave	Miller's Landscape	office	74	37	0.25	\$422	\$38,212	\$28,659	\$19,106	\$9,553	\$2,630	\$2,070	\$1,530	\$980
9320-60	76 Westchester Ave	Dinardos	restaurant	2100	1,050	7.00	\$11,900	\$1,077,477	\$808,108	\$538,739	\$269,369	\$74,210	\$58,630	\$43,050	\$27,480
9320-60	76 Westchester Ave	Vacant	Vacant	0	0	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9320-60	76 Westchester Ave	above Dinardos	apartments	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9320-61	74 Westchester Ave	Blind Charlies	restaurant	1750	875	5.83	\$9,917	\$897,898	\$673,423	\$448,949	\$224,474	\$61,840	\$48,870	\$35,880	\$22,890
9320-61	74 Westchester Ave	Jacob Allen	Spa	200	100	0.67	\$1,133	\$102,617	\$76,963	\$51,308	\$25,654	\$7,060	\$5,580	\$4,110	\$2,620
9320-61	74 Westchester Ave	O'Donnell	Retail	199	100	0.66	\$1,129	\$102,232	\$76,674	\$51,116	\$25,558	\$7,040	\$5,560	\$4,080	\$2,610
9320-61	74 A,B,C,&D Westchester Ave	above Blind Charlies	apartments	660	330	2.20	\$3,740	\$338,636	\$253,977	\$169,318	\$84,659	\$23,320	\$18,430	\$13,530	\$8,630
9320-62	72 Westchester Ave	PR Dry Cleaners	retail	238	119	0.79	\$1,346	\$121,858	\$91,393	\$60,929	\$30,464	\$8,390	\$6,630	\$4,870	\$3,110
9320-62	72 Westchester Ave	Plum Plum's	Food Prep	119	59	0.40	\$673	\$60,929	\$45,697	\$30,464	\$15,232	\$4,200	\$3,310	\$2,430	\$1,550
			Employees	60	30	0.20	\$340	\$30,785	\$23,089	\$15,393	\$7,696	\$2,120	\$1,670	\$1,230	\$780
9320-62	72 Westchester Ave	Nephawa	retail	119	59	0.40	\$673	\$60,929	\$45,697	\$30,464	\$15,232	\$4,200	\$3,310	\$2,430	\$1,550
9320-62	72 A & B Westchester Ave	above PR Dry Cleaners	apartment	220	110	0.73	\$1,247	\$112,879	\$84,659	\$56,439	\$28,220	\$7,770	\$6,150	\$4,510	\$2,880
9320-63	70 Westchester Ave	above retail	apartments	220	110	0.73	\$1,247	\$112,879	\$84,659	\$56,439	\$28,220	\$7,770	\$6,150	\$4,510	\$2,880
9320-63	70 Westchester Ave	Barber	Barber	250	125	0.83	\$1,417	\$128,271	\$96,203	\$64,136	\$32,068	\$8,830	\$6,980	\$5,120	\$3,270
9320-63	70 Westchester Ave	P. Queens, Avalon Ins, Hedg., PR Home	retail / Office	103	51	0.34	\$583	\$52,827	\$39,620	\$26,414	\$13,207	\$3,640	\$2,880	\$2,110	\$1,340

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Environmental Engineers/Consultants

Table 10-4, Continued

Parcel #	Property Address	Tenant	Use		Final Water Design Flow	# of	Flow Based Annual		Total Ca _l	oital Cost		Flow	-Based Ann	ual User Ch	narge
				Flow (gpd)	(gpd)	EDU's	O&M Cost	No Grant	25% Grant	50% Grant	75% Grant	No Grants	25% Grant	50% Grant	75% Grant
9320-64	68 Westchester Ave	Chubby's	retail	346	173	1.15	\$1,962	\$177,604	\$133,203	\$88,802	\$44,401	\$12,240	\$9,670	\$7,100	\$4,530
9320-64	68 A,B,C,&D Westchester Ave	above Chubby's	apartments	660	330	2.20	\$3,740	\$338,636	\$253,977	\$169,318	\$84,659	\$23,320	\$18,430	\$13,530	\$8,630
9320-65	66 Westchester Ave	gas station	auto repair	800	400	2.67	\$4,533	\$410,468	\$307,851	\$205,234	\$102,617	\$28,270	\$22,340	\$16,400	\$10,460
9455-18.9	26 Lower Trinity Pass	Joiquim Felice	Home	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9455-20	32 Westchester Ave	Wine Connection	retail	444	222	1.48	\$2,517	\$227,861	\$170,896	\$113,930	\$56,965	\$15,700	\$12,400	\$9,100	\$5,810
9455-20	32 Westchester Ave	Above Wine Connection	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-21	34 Westchester Ave	above Antique	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-21	34 Westchester Ave	Antique	retail	196	98	0.65	\$1,113	\$100,795	\$75,597	\$50,398	\$25,199	\$6,940	\$5,480	\$4,020	\$2,580
9455-27	38 Westchester Ave	Future Value Assoc	office	176	88	0.59	\$997	\$90,303	\$67,727	\$45,151	\$22,576	\$6,220	\$4,910	\$3,610	\$2,300
9455-28	40, 40A Westchester Ave	Wittus	retail	270	135	0.90	\$1,530	\$138,533	\$103,900	\$69,266	\$34,633	\$9,540	\$7,540	\$5,540	\$3,540
9455-28	40, 40A Westchester Ave	Helen Famulare Spa	Spa	400	200	1.33	\$2,267	\$205,234	\$153,925	\$102,617	\$51,308	\$14,140	\$11,170	\$8,200	\$5,230
9455-28	40, 40A Westchester Ave	Private	apartment	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9455-26	46 Westchester Ave	Roeco	office	184	92	0.61	\$1,041	\$94,252	\$70,689	\$47,126	\$23,563	\$6,490	\$5,130	\$3,760	\$2,410
9455-25	54 Westchester Ave	Asia Hamachi	restaurant	875	438	2.92	\$4,958	\$448,949	\$336,712	\$224,474	\$112,237	\$30,920	\$24,430	\$17,930	\$11,450
9455-25	54 Westchester Ave	Dragon Martial Arts	Health Club	300	150	1.00	\$1,700	\$153,925	\$115,444	\$76,963	\$38,481	\$10,610	\$8,370	\$6,150	\$3,920
9455-25	54 Westchester Ave	Curry & Hovis	retail	120	60	0.40	\$680	\$61,570	\$46,178	\$30,785	\$15,393	\$4,240	\$3,350	\$2,460	\$1,570
9455-25	54 Westchester Ave	above Curry & Hovis	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-24	56, 60 Westchester Ave	above retail	apartments	770	385	2.57	\$4,363	\$395,075	\$296,306	\$197,537	\$98,769	\$27,210	\$21,500	\$15,790	\$10,080
9455-24	56, 60 Westchester Ave	Key Bank, Toy Store	retail / Office	779	390	2.60	\$4,415	\$399,744	\$299,808	\$199,872	\$99,936	\$27,530	\$21,760	\$15,970	\$10,190
9456-4	39 Westchester Ave	private	residential	660	330	2.20	\$3,740	\$338,636	\$253,977	\$169,318	\$84,659	\$23,320	\$18,430	\$13,530	\$8,630
9456-1.9	55, 57 Westchester Ave	Market, post office, 5 Retail Stores, Office	retail / office	5414	2,707	18.05	\$30,679	\$2,777,787	\$2,083,341	\$1,388,894	\$694,447	\$191,310	\$151,160	\$111,000	\$70,840
9455-10	22, 24 Westchester Ave	PR Organics	Retail	478	239	1.59	\$2,709	\$245,306	\$183,979	\$122,653	\$61,326	\$16,890	\$13,350	\$9,800	\$6,250
9455-13	26 Westchester Ave	Above Educators Alley	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9455-13	26 Westchester Ave	Qualities	retail	55	27	0.18	\$311	\$28,181	\$21,136	\$14,091	\$7,045	\$1,940	\$1,530	\$1,130	\$720
9455-13	26 Westchester Ave	Educators Alley	office	110	55	0.37	\$622	\$56,362	\$42,272	\$28,181	\$14,091	\$3,890	\$3,060	\$2,250	\$1,430
9455-14	30 Westchester Ave	private	residential	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9456-8	21 Westchester Ave	private	residential	440	220	1.47	\$2,493	\$225,757	\$169,318	\$112,879	\$56,439	\$15,550	\$12,280	\$9,020	\$5,750
9456-7	23,23A,B Westchester Ave	Kende & London Joiner	retail	306	153	1.02	\$1,735	\$157,106	\$117,830	\$78,553	\$39,277	\$10,830	\$8,550	\$6,280	\$4,010
9456-6	27 Westchester Ave	above Lion Heart	apartments	110	55	0.37	\$623	\$56,439	\$42,329	\$28,220	\$14,110	\$3,890	\$3,070	\$2,260	\$1,440
9456-6	27 Westchester Ave	Di Biase Filkoff Architects	Office	152	76	0.51	\$860	\$77,886	\$58,415	\$38,943	\$19,472	\$5,370	\$4,240	\$3,110	\$1,980
9456-5	29 Westchester Ave	A Home	residential	1760	880	5.87	\$9,973	\$903,029	\$677,271	\$451,514	\$225,757	\$62,200	\$49,140	\$36,080	\$23,030
9456-55	35 Westchester Ave	PR Vet Center	retail	214	107	0.71	\$1,215	\$110,045	\$82,534	\$55,023	\$27,511	\$7,580	\$5,980	\$4,390	\$2,810
	IN-FILL			6365	3,183	21.22	\$36,071	\$3,265,989	\$2,449,492	\$1,632,994	\$816,497	\$224,940	\$177,720	\$130,510	\$83,290
	PM&G		CURRY & HOVIS	20000	10,000	66.67	\$113,333	\$10,261,688	\$7,696,266	\$5,130,844	\$2,565,422	\$706,760	\$558,410	\$410,050	\$261,690
	SCOTT'S CORNER MARKET		Market & Post Office	20000	10,000	66.67	\$113,333	\$10,261,688	\$7,696,266	\$5,130,844	\$2,565,422	\$706,760	\$558,410	\$410,050	\$261,690
				80,000	40,000	267	\$453,333	\$41,046,750	\$30,785,063	\$20,523,375	\$10,261,688	\$2,827,060	\$2,233,590	\$1,640,160	\$1,046,670

Table 10-5 Draft - Implementation Schedule

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1	Site Testing/Modeling								****																									
2	Aquarion Agreement																																	
3	Site Selection																																	
4	District Formation																																	

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6	Bid Period															Ι		000000									Ι				T													Ι			floor			
7	Construction															I				I																								I						
8	Start-Up																																									SSEEDER								

A Public Meeting on the draft Report was presented at the Town Board meeting of April 11, 2019.

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- 4. Bradley, J. G. et al, Groundwater Mounding Analysis for Onsite Wastewater Discharge: From Simple to Innovative, presented at the 2019 NE Short Course, Groton, CT April 6, 2019

GLOSSARY

BOD – **Biochemical Oxygen Demand.** A laboratory measurement of wastewater that is one of the main indicators of the quantity of pollutants present; a parameter used to measure the amount of oxygen that will be consumed by microorganisms during the biological reaction of oxygen with organic material.

Drip Irrigation – A slow rate, shallow dispersal system where treated wastewater is dispersed through emitters into the root zone near the ground surface.

Effluent Tee Filter – Filtration device that installs directly into the outlet tee on the effluent end of the septic tank.

Fixed Film Treatment Systems – Secondary treatment achieved through percolating wastewater through media, typically sand, rock or a synthetic material.

gpd - gallons per day

gpm - gallons per minute

GIS – Geographic Information Systems

Grinder Pump System – A type of collection system that takes raw wastewater (no septic tank) and uses a small basin containing a grinder pump (the grinder pump station) to convey raw wastewater to the desired location.

I/I - Inflow/infiltration

MBR – **Membrane Bio-Reactor.** A type of suspended growth system that uses membrane filtration instead of final settling

MLSS – Mixed Liquor Suspended Solids

MPN - Most Probable Number

NWI – National Wetlands Inventory

NYSDEC – New York State Department of environmental Conservation

Primary Treatment – the first stage of wastewater treatment that removes settleable or floating solids only; generally removes 40% of the suspended solids and 30-40% of the BOD in the wastewater.

RMF – **Recirculating Media Filter.** A type of secondary, fixed-film process that recirculates wastewater over media and blends recirculated water with raw wastewater prior to discharging to the next treatment process.

RSF – Recirculating Sand Filter. The simplest type of RMF, where sand is used as the media.

SBR - Sequencing Batch Reactor

Secondary Treatment – a type of wastewater treatment used to remove dissolved and suspended pollutants through biological treatment processes. The basic categories of secondary treatment are suspended growth, fixed film and integrated fixed film – activated sludge. Effluent quality is BOD/TSS < 30 mg/L. Advanced secondary treatment achieves effluent quality of BOD/TSS < 30 mg/L and Ammonia < 3 mg/L.

STEP System – Septic Tank Effluent by Pump. A type of collection system that takes effluent from septic tanks and pumps the wastewater to the desired location.

STEG System – Septic Tank Effluent by Gravity. A type of collection system that takes effluent from septic tanks and drains by gravity to the desired location.

Suspended Growth Treatment Systems – Secondary treatment achieved through maintaining particles in suspension in an aerobic environment.

Tertiary Treatment with Disinfection – wastewater treatment system that achieves the following effluent quality.

pH 6.5 – 8.5 BOD/TSS < 10 mg/L Oil & Grease < 15 mg/L Total Nitrogen (TN) < 10 mg/L

Fecal Coliform Average < 24 & Maximum < 200 MPN / 100 ml Enterococcus Average < 24 & Maximum < 104 MPN / 100 ml

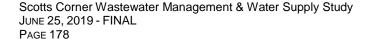
TSS – Total Suspended Solids. A measure of the amount of solid material in suspension within a waste stream.

USDA – U.S. Department of Agriculture

UV Disinfection – The use of ultraviolet radiation to inactivate pathogens in a treated waste stream.

WCDoH – Westchester County Department of Health

WWTF – Wastewater Treatment Facility







Pound Ridge Water/Waste Water Task Force

Existing Conditions Report

Baseline Conditions Workgroup
December 2017

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Table 2: Wastewater issues identified by historical review

Table 3: Wastewater generation rates

Table 4: Current flow estimates

Table 5: Full occupancy flow

Table 6: Flow comparison

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Figure 1: Location of the Scotts Corners Business District

Figure 2: Historical Septic System Data

Figure 3: Wetlands Zoning Topography

Figure 4: Wells and setbacks

Figure 5: Flow estimates

APPENDICES (ON CD)

Appendix A: Historical Wastewater Studies

Appendix B: Historical Potable Water Studies

Appendix C: WDOH Records

Appendix D: Flow Estimate Details

Appendix E: Photos Documentation

POUND RIDGE WATER/WASTEWATER TASK FORCE BASELINE CONDITIONS WORKGROUP REPORT

1.0 CHARGE

As given by the Town Board: "The mission of the Pound Ridge Water/Wastewater Task Force is to assist the Town of Pound Ridge in developing potential long-term wastewater treatment and disposal solutions for the Scotts Corners Business Districts" (**Figure 1**).

1.1 PROBLEM

Scotts Corners is the main commercial and retail area of Pound Ridge and has three planned business zones, PB-A, PB-B, and PB-C (**Figure 2**). Many of the lots have antiquated wastewater treatment systems that are still in use and have experienced health code violations. The present situation is not sustainable, limits any future growth in the Scotts Corner area and, if left unaddressed will lead to future waste water treatment systems failures.

The Pound Ridge Wastewater Task Force Baseline Conditions Work Group is tasked to assess the present situation and make recommendations to remedy the current situation.

1.2 BASELINE CONDITIONS WORKGROUP SCOPE AND METHODOLOGY

1.2.1 Area of Responsibility

- 1. The Baseline Conditions Workgroup is tasked with surveying existing conditions, and compiling a baseline report.
- The baseline report contains data on the location, and type of waste water systems in the PB-A, PB-B and PB-C zoning areas of Scotts Corners. An estimate of the flows generated is included.
- 3. A synopsis of the geological and groundwater constraints of the Scotts Corners area is presented as these factors impact any future solutions.
- 4. The regulatory constraints that impact the present and future waste water treatment options are presented. The location of Scotts Corners in the watershed of the Stamford water supply also impacts any future solutions to the current problems.

- 5. The Scotts Corners area is serviced by a series of privately owned wells that provide potable water to the residences and businesses. These wells are inventoried and locations presented. Any discussion of future waste water solutions to the current problems must include an analysis of the sustainability of the potable water supply.
- 6. A synopsis of the past studies is presented summarizing salient facts that are relevant to the understanding of current conditions and the development of future solutions. The historical waste water reports are included as Appendix A. The historical potable water studies are included as Appendix B.
- 7. A number of steps necessary to develop recommendations will be presented.
- 8. Tables and figures have been prepared to assist the reader in his or her review of the data.

1.3 METHODOLOGY

The following steps were taken to gather the data for this report.

- File review at the Pound Ridge Townhouse to identify available files.
- Submittal of Open Records Request to the Westchester County Department of Health See
 Appendix C, WCHD Property Information
- Preliminary review of records from the Town Building Department, County Health
 Department, and NYSDEC to identify existing records for well locations, septic systems,
 and underground storage tanks to the extent possible.
- Preliminary review of geographical information available through existing reports, PR
 GIS, Westchester County GIS, NYS State records, and USGS.
- Walking survey of Scotts Corners to visually identify commercial, retail, and residential
 use areas.
- Current and projected future water use was calculated based on data collected as part of the walking survey.

2.0 CURRENT CONDITIONS

The Scotts Corners business district encompasses approximately 40 acres and 40 properties across blocks 9454, 9455, 9456, 9320, 9820, and 9816. All properties are served by well water and depend on septic systems for wastewater disposals. The Baseline Task Force submitted a request for information to the Westchester County Department of Health in September 2016. The information included in this report is based on a review of records received as part of the information request, review of Town files, and conversations with town officials and property owners. A summary of the data is presented in **Table 1**. Information has not yet been located for 19 properties.

Based on a review of the data, 2012 was the most recent date for a septic system permit reviewed. The oldest permit reviewed was issued in 1942. Some existing systems were installed prior to 1942 but a permit was not available for review at this time. Many of the septic systems appear to have been installed in the 1940s and 1950s before any current regulations as to design, were in place.

Waste water disposal in Scotts Corners is constrained by several factors:

- Scotts Corners is situated near Class AA streams that feed reservoirs used for potable water supplies in Connecticut. Class AA streams are subject to New York State Protection of Waters Regulations.
- The areas available for traditional subsurface wastewater disposal systems are limited due to the following:
 - Topographical restrictions (Figure 3)
 - High groundwater tables
 - Presence of bedrock
 - Proximity to wetlands (Figure 3)
 - Regulatory constraints related to the treatment technologies that can be approved.
- The age of the existing subsurface disposal systems
- Potable water wells dot the area. Public health regulations require a separation of 50 to 150 feet between wells and various elements of septic systems.
- Public health laws and regulations have become more detailed and protective over time
 and many of the well and septic system installations do not comply with current

regulations. **Figure 4** provides an overview of the proximity of wells and the septic systems in the area.

• The land area required for the traditional subsurface disposal of the volume of wastewater estimated at 54,000 gallons per day (GPD) is not available in Scott's Corner.

The historical reports as they relate to **wastewater** disposal are summarized in **Section 3.** A summary of the problems and constraints identified and the proposed solutions have been included as **Table 2.**

3.0 SUMMARY OF PREVIOUS REPORTS

A review of town files produced a series of reports addressing water and wastewater conditions in Scotts Corners dating back to the early 1990s. A copy of the historical reports reviewed have been included in Appendix A for waste water and Appendix B for potable water.

A summary of historical reports follows:

3.1 Wastewater

1990 Clark Report

The study includes existing use and development levels and projections of future development potentials. Concern about future development exceeding capacity of existing parking. Includes: land and building use, parking and traffic, future development and trends from 1974-1990. In 1974 after a study the Zoning regulations were changed to provide the Floor Area Ratio (FAR) restrictions reducing the theoretical zoning potential by approx. one-half. A common sewage disposal system or expansion to the west would provide more parking in the northern lot. Alternatives for Development potential identified.

1992 Folchetti Report

This report studied a wastewater treatment plant for pre-treating waste water for a subsurface disposal system. Two areas for subsurface disposal near the point of generation in the Scotts Corners Business area were studied and neither were determined to be suitable. Pumping the effluent to the Town Park, a distance of 6,300 or 9,000 feet depending on the route, was proposed as a potential solution. This study was fairly comprehensive and included estimates of square footage of residential and commercial space and resulting waste water flows. Projections were made to 2012. The projected wastewater treatment plant was estimated to cost \$1.5 million and have annual operating costs of \$38,000 per year.

1998 Malcom Pirnie

The report evaluated pumping treated wastewater effluent into the bedrock. This was not considered a viable option.

1999 Malcolm Pirnie

The report established that certain wastewater systems were experiencing failures. The study reviewed three solutions. A wastewater treatment plant was deemed too expensive. On site wastewater disposal was not feasible as there is not enough space and DOH waivers would be required. Upgrading existing systems was discussed. The Town Park disposal solution would seem viable but faces some hurdles.

2000 June and July, Malcolm Pirnie

Test pits were dug and percolation tests performed behind lots 60, 61, 62 (see figure -). A solution was proposed but it did not address the needed flows and would require regulatory waivers.

2000 September, Malcom Pirnie

The study proposal discussed regulatory issues with potable water wells and the possibility of combining them into a Community Water Supply, but wanted to start over with a wastewater study.

2002 April, Folchetti

Draft December 2017 The study picks up from previous studies and addresses the lack of space in Town for wastewater disposal. The Town Park site is addressed and some challenges for the use of that site for wastewater disposal is addressed. This report also discusses potable water solutions, water from Stamford, drilling wells and getting water from the golf course.

2015 Ridge 29 Proposal

The OnSite Wastewater treatment system proposed for the Ridge 29 development was designed by Onsite Engineering PLLC and included Septic Tank Effluent Gravity System (STEG) for the forty-three proposed units and a constructed wetland treatment system. ¹

Opposition to the development was based in part on the site topography where approximately 80% of the 29 acre property consisted of slopes of more than 25%, the density of the proposed development, and the selection of an unconventional, technologically complex, on-site community sewage treatment and disposal system on a steep and environmentally sensitive site. The technology had previously been used to remediate failing septic systems but not as the primary septic treatment technology and it was the opinion of Aquarion, the Connecticut water utility who owns the watershed land in Pound Ridge, that the technology should not be applied to develop a marginal piece of property in a major watershed².

3.2 POTABLE WATER

Potable water is also an issue in Scott's Corners. New potable wells in Scott's Corners have been required to have extensive filtration systems and participate in regular monitoring. There are legacy MTBE issues in the ground water. Any replacement of the existing septic systems or addition of new wells run into regulatory issues as the present configuration of septic systems and wells do not meet regulatory separation requirements. These studies recognize the need to address present and future potable water supply challenges. See Appendix B Historical Potable Water Reports

Draft December 2017

¹ http://www.townofpoundridge.com/boardsandcommissions/ridge-29-llc

² May 11, 2015 letter from Aquarion to the Chairman of the Pound Ridge Planning Board.

The conclusions of the reports on the ability to provide **potable water** to Scott's Corners are summarized below.

A 1973 contract between the Stamford Water Company and Pound Ridge for the construction of the Siscowit or other Reservoir to provide water to Stamford also includes a provision for Pound Ridge to access this water supply.

In 1997 and 1998 plans were made to provide Scott's Corners with potable water either from three deep wells on property owned by the Bridgeport Hydraulic Company (BHC)³ on Westchester Avenue, or from an interconnect in Connecticut. It would appear that the driving force was the MTBE contamination. An interconnect seems to have been stopped late in the process by New Canaan who would not issue street opening permits for the interconnection and the project was cancelled.

4.0 Environmental Conditions

4.1 GEOLOGY

Northern Westchester, including Pound Ridge, was included in a 1995 USGS report⁴ as part of a water resources investigation. The report provides an overview of the geological and hydrogeological setting of northern Westchester. The major findings are summarized below.

BEDROCK

Pound Ridge "is underlain by a complex sequence of bedrock that varies greatly in age and composition... The rocks are extensively folded and faulted...The bedrock is mostly metamorphic with some igneous rock and ranges in age Precambrian to Upper Devonian.... Rock of Precambrian age are by far the most extensive in the study area and consist of three major groups-Fordham Gneiss, Pound Ridge Gneiss, and the Hudson Highlands

³ Aquarion Water Company is the current owner of the Bridgewater Hydraulic properties.

⁴ S. Wolcott and R. Snow. Computation of Bedrock-Aquifer Recharge in northern Westchester County, New York, and Chemical Quality of Water from Selected Bedrock Wells. Water Resources Investigation Report 92-4157, USGS 1995

complex...Cambro-Ordovician.-Bedford Gneiss, Hartland Formation, and the Inwood Marble are formations of an uncertain age."

SOILS

"Much of the bedrock is overlain by unconsolidated Pleistocene or Recent deposits, some of which are extensive. The Pleistocene deposits typically include a thin mantle of till on hilltops and valley sides and stratified sand, gravel, silt, and clay in the valley bottoms. Recent deposits consist of alluvium in stream valleys and organic rich sediments in swampy areas." "Much of the Pleistocene material is till, which consists of unsorted materials ranging in size from clay to large boulders. Thicknesses range from less than 1 ft. to more than 100 ft. Stratified drift, unlike till, forms sorted deposits of either clay, silt, sand or gravel that can be interbedded amongst themselves or between till deposits. The extent and thickness of stratified drift...range from zero in areas of no stratified drift to more than 250 ft. Recent deposits are typically alluvium and finegrained organic rich sediments in and near swamps and streams and are generally less than 10 ft. thick.

4.2 Hydrogeology

Scotts Corners is located in an area characterized by hydric soils, state regulated wetlands, class AA streams, and within certain FEMA flood zones. Groundwater is generally encountered within the first 4 feet in areas of the business district that are not characterized as steep slopes.

4.3 Topography

STEEP SLOPES

The Town of Pound Ridge protection of steep slopes ordinance can be found in the Code Book Chapter 89. The ordinance was promulgated in 2007. Disturbance of steep slopes above 35% is prohibited. Disturbance of slopes of more than 15% requires a permit. Given the local topography where more than 2,000 acres⁵ have slopes of more than 15%, steep slopes will have to be considered in any future proposed water and wastewater solution for Scotts Corners.

Draft December 2017

⁵ Town of Pound Ridge Comprehensive Plan, 2010.

WETLANDS

The Pound Ridge Wetlands Ordinance (Chapter 63) was adopted in 1986. According to the Comprehensive Plan, the Town encompasses 8,300 acres of wetland, including wetlands regulated by federal, state and local laws and ordinances representing approximately 40% of the Town.

The Business District is located on or near wetlands that drain into the Laurel Reservoir. The Scott's Corner's shopping center located in PB-B was constructed on filled in wetlands

5. 0 APPLICABLE REGULATIONS

A network of regulations and agencies address septic tanks, wastewater treatment and discharges, surface water criteria, drinking water wells, distance requirements, steep slopes, and so forth. All of which will have to be considered as part of evaluation of Scotts Corners. A summary is presented below. A comprehensive discussion of the applicable regulations will be included in the Phase 2 technical report.

5.1 NEW YORK STATE DEPARTMENT HEALTH

The New York State Department of Health (NYSDOH) Bureau of Water Supply Protection issued the current *Onsite Residential Wastewater Treatment System Design Handbook* in 2012 The Design Handbook provides the current requirements and guidelines for the construction and operation of residential septic systems. The design standards were established in 10NYCRR Appendix 75A and 10NYCRR Part 75 and apply to residential septic systems with flows of 1000 gallons per day (gpd) or less. The standards for intermediate systems with a flow above 1000 gpd are regulated by the NY State Department of Environmental Conservation (NYSDEC) in 6NYCRR part 750.

The New York State Public Health Law has given counties, municipalities, and other agencies the authority to enact ordinances to protect public health. If more stringent regulations exist locally they will have to be met as well when new systems are designed.

5.2 WESTCHESTER COUNTY DEPARTMENT OF HEALTH

Article VIII of the Westchester County Sanitary Code regulates the construction and operation and maintenance of onsite wastewater treatment systems. This report will use the common term "septic system" instead of "onsite wastewater treatment systems". Article VII has been amended several times, most recently in 2008.

Construction of a new septic system or expansion of an existing system requires the approval of the Westchester County Department of Health.

The Town of Pound Ridge implemented Chapter 86 in 2011. The intent of the septic tank regulations according to §86.1 "The Town of Pound Ridge hereby finds that it is necessary to the health, safety, and welfare of the residents of the Town of Pound Ridge that separate sewage disposal systems operate and be maintained in a manner that will prevent, to the extent possible, hazards to the public health and to protect the drinking water supply of the Town of Pound Ridge and drinking water supplies which pass through the Town of Pound Ridge." Chapter 86 sets forth the inspection schedule for septic systems within the Town required to maintain compliance with the Westchester County Sanitary Code sect VIII.

5.3 POLICIES AND STANDARDS

The Public Health Law of New York Part 5 subpart 5-1 Appendix 5B sets the minimum standards for water wells used for drinking and food processing but not for public water supply. The minimum separation distance between a water well and a contamination source are outlined in a table format. Generally, a well should be located 150 ft upgradient of an underground storage tank (single wall), 50 ft upgradient of a septic tank with a water tight effluent line and 150 ft upgradient of a seepage pit. The distance requirement can increase 50% based on site specific soil and depth to groundwater conditions. The distance requirement for cesspools which have no septic tank pretreatment is 200 ft. **Figure 4** provides an overview of the distance requirements.

Draft December 2017

6.0 WASTEWATER FLOW

6.1 Wastewater Flow Estimates

The estimates of wastewater flows from the three business districts (PB-A, PB-B, and PB-C) were generated using wastewater generation rates developed by New York City Department of Environmental Protection (NYC DEP) and various architectural handbooks used for sizing water and wastewater systems in homes, offices, and other commercial uses. The rates are shown in **Table 3**. These are general rates and are not applicable in every individual situation. However, they have been developed over a number of decades of practice and do reflect conservative and generally accurate aggregate estimates.

6.2 CURRENT FLOWS

Using information from the Pound Ridge Assessors Office and supplemented with field land use surveys, the current wastewater flows from the PB-A, -B, and -C zoning districts were estimated and are summarized in **Table 4**. Based on United States Census Bureau data, the residential usage was based on 3 persons per apartment. The estimates are based on the observed occupancy of buildings at the end of May 2016.

6.3 FULL OCCUPANCY FLOWS

The full occupancy of all existing space in the three Planned Business Districts is based on "highest and best use" of the existing buildings. No new buildings or structures are assumed in this estimate. "Best and highest use" would be retail or restaurant on the street level first floor and residential or office on the second floor. The differentiation between office or residential on the second floor is based current usage of the second floor. The "highest and best use" is considered to the reasonable worst case without new building. The estimated are shown on **Table 5**. Detailed, use, by use wastewater flow estimates are contained in **Appendix D**.

6.4 COMPARISON OF CURRENT AND HISTORICAL FLOW ESTIMATES

Previous estimates of wastewater flows in Scotts Corner ranged from approximately 25,000 to 28,000 gallons per day, depending on the date of the study. Although the wastewater generation rates in the two estimates are similar, several assumptions contribute to the difference between the earlier historical estimates and the current estimates of 40,000 to 55,000 gallons per day developed for this report. The differences in assumptions between the historical data in the Folchetti Report (1992) and the current estimate are summarized in Table 6 and outlined below:

- The historical estimate included only 25 buildings, compared to the 41 buildings in the
 current wastewater flow estimates. The main reason for the difference in the number of
 buildings is the decision to include all three PB zoning districts in the present analysis.
 Folchetti only included PB-A.
- Folchetti estimated 20,400 gallons per day (gpd) from commercial use. The current estimate is about double that flow at approximately 40,300 gallons per day.
- The Folchetti Report does not present the number of residential units included in the estimate nor the generation rate use.
- Folchetti Report did not include A Home in its estimate. This report estimates daily flow generated by A-Home at approximately 3,600 gpd.

The current estimate for residential units in Scotts Corner is 45 units with a population of 135 people (3 persons per unit based on U.S. Census Bureau data) and a total wastewater flow of approximately 13,500 gpd. The Folchetti Report estimated 4,250 gpd for the residential population. These two factors increased the wastewater flow estimates by about 29,000 pgd. **Table 6** provides a summary of the flow estimate assumptions.

6.5 COMMUNITY WASTE WATER TREATMENT PLANTS IN WESTCHESTER

In Westchester County, 12 wastewater treatment plants are authorized to discharge treated wastewater under the State Pollution Discharge Elimination System (SPDES). Of these, 7 are owned and operated by Westchester County Department of Environmental Facilities, and are rated to treat volumes of wastewater in excess of millions of gallons per day, far more than wastewater generated in Scotts Corner. The largest plant is the Yonkers Joint Treatment Plant

Draft December 2017 and is rated for 145,000,000 million gallons per day. The Bedford Hills/Taconic Correctional Facility, which is close by, is rated to treat 500,000 GPD and normally treats 300,000 to 400,000 GPD.

Two wastewater treatment plants in Westchester County that treat a comparable volume to Scotts Corner are: (1) Wild Oaks Condominium Sewer District, Goldens Bridge rated to treat 60,000 GPD; and (2) Oakridge Condominium Treatment Plant, Vista, rated to treat 80,000 GPD. These plants are small with 1 or 2 employees. The plants are not staffed 24 hours per day.

6.6 CURRENT WATER SUPPLY CONDITIONS

Potable water is supplied by individual wells serving the properties in Scotts Corners. It is the Work Group's understanding that the wells serving restaurants and food preparation operations in the business districts participate in water quality monitoring programs overseen by the NYSDOH. The task force did not review any of the individual water treatment systems or the monitoring data. It may be required at a later date to include a review of the potable water data.

6.7 FUTURE DEVELOPMENTAL CONDITIONS TEP AND EXPECTED CHANGES IN REGULATIONS AND USES

Several infrastructure related projects that could influence the business district wide wastewater treatment options are currently underway or planned. This includes the TEP project, the redevelopment of the Pound Ridge Square Shopping Center, future use decisions at 77 Westchester Avenue, and other development decisions, including a renewed application at 29 Acres.

7.0 Underground Storage Tanks

7.1 LOCATION OF USTS

Heating oil underground storage tanks (USTs) were marked on many of the site plans reviewed as part of the septic system analysis. It is anticipated that every property in the three business district has at least one UST or above ground storage tank (AST) for heating oil storage.

7.2 POTENTIAL SOURCES

A review of the NYSDEC Environmental Site Remediation Database and NYSDEC Spills Database⁶, was conducted in 2016 by Toxics Targeting Report (2016) prepared as part of the NRI project. Additional data was made available as a result of the recently completed site assessment at 77 Westchester Avenue the following spills and recognized environmental conditions have been identified in Scotts Corners.

Table 7 presents the site ID, address, site name, issue, and status of sites identified in the business district. A total of eighteen incidents in the business district have been identified in the NYS DEC spills database. The incidents were associated with tank test failures, tank overflow or equipment failures. Only three incidents have been classified as unknown or other. Work is currently continuing at 77 Westchester Avenue under a federal brownfields grant.

8.0 SUMMARY OF FINDINGS

The Scotts Corner's business district provides a challenging environment for wastewater treatment systems and potable water supply.

- There has never been an overall plan for wastewater treatment in the business district. Each property is served by an individual septic tank or cesspool.
- Some of the septic tanks or cesspools are old and do not meet current standards for septic system design or minimum separation distance requirements for water wells.
- Some systems are likely to fail and will not meet present standards for renovated or new systems.
- Based on estimates of current and projected flow and the use of currently accepted treatment technologies a minimum of 7 acres is required for a leachfield.
- Site conditions are not amendable to new septic systems.
 - o Groundwater encountered at 4-5 feet bgs
 - o Bedrock or boulders too large to move within 5 feet of surface on test plots

. .

⁶ The NYSDEC databases were last accessed June 17, 2017.

- Close proximity to wetlands and Class AA streams severely limits the amount of land that is available for septic systems and drainage field in compliance with current requirements.
- o Steep slopes
- Because of the proximity to Class AA streams and the Laurel Reservoir which is part of
 the water supply system for Stamford, CT, all wastewater discharges have to be below
 ground which may limit the use of constructed wetlands.
- The properties in the business district are served by private wells. Continued additional filtration systems will be required in the future.
- Minimum separation distance requirements are not always met. Some properties are likely to fail if current standards are applied.
- Area required for seepage fields based on estimated future flow of 54,000 gpd and current technologies is not available in Scotts Corners.

9.0 NEXT STEPS

The Technical Committee will evaluate technical options and present its findings and recommendations to the public in a technical report as well as presentations at public meetings.

Funding opportunities will be evaluated concurrently.

Table 1 POUND RIDGE WATER/ WASTEWATER

Property Data

Block Lo	ot i	Zone	Property Address	Tenant	Use	Acreage	Year Built Loca	tion of Well Loca	tion of Septic	Property Owner	Owner Info	Original Owner
PB-A												
9454	36	R-2A	89 Westchester Ave	PR Ambulance Corps	community facility	0.530	1981	х		Pound Ridge Lions Ambulance Corps	914-764-8510 PO Box 237 Pound Ridge NY 10576	
9454	5	PB-A	87 Westchesterchester Ave	Avant Garden	retail	1.131	1950	Х	Х	Rex Realty of CT Inc.	1111 Summer St. Suite 603, Stamford CT 06905	Rex Oil Co.
9454	6	PB-A	85 Westchester Ave	Part of North Star	restaurant w/ office	0.415	1930	Х	Х	Westchester Ave LLP	100 S. Bedford Rd, Suite 340 Mt. Kisco NY 10549	Geraldine Ash
9454	7	PB-A	83 and 83A Westchester Ave	North Star, Albano Appliance & vacant	retail/office w/ apts	0.473	1950	Х	Х	Albano Realty Assoc. LLC	Kathy Albano 2 Orchard Dr, South Salem NY 10590	Alfred Albano
9454	8	PB-A	79 Westchester Ave	Dynax	office	0.345	1957	Х	Х	Edward K. Kleiner Family Truest	PO Box 285 Pound Ridge, NY 10576	Baring - Gould
9454	9	PB-A	77 and 77A Westchester Ave	Vacant auto repair	retail w/ apts.	0.342	1945			John and Gildo DiFulvio	77 Westchester Ave, Pound Ridge NY 10576	Anthony Pirone-Amerigo Prosio
9454	35	PB-A	NA	Parking & vacant	Vacant	0.356						
9454	10	PB-A	73 Westchester Ave	HHF - Dentist	office	0.670	1959	Х	Х	Atem Enterprises Inc.	297 Hayward St., Yonkers NY 10704	New Canaan Devel. Co.
9454	11	PB-A	71 Westchester Ave	Kitchen Table & wine store	resaurant/retail/office	0.631	1948	Х	Х	Gateway Management		Scotts Corners Market Inc.
9454	12	PB-A	69 Westchester Ave	Pizza, PR Dance, Nail/Spin	resaurant/retail/office	0.493	1950	Х	Х	Nicholas S. Vazzana	PO Box 390 Pound Ridge NY 10575	Norkin Bros.
9454	13	PB-A	67 Westchester Ave	Gen Store, Booksy, Antique	retail w/apts	0.147	1950	Х	Х	Jerome and Elinor Deutsch Trustee	PO Box 127 Pound Ridge NY 10576	Theodore & David Allen
9454	14	PB-A	4 Trinity Pass Rd.	Manville Trust	office	0.181	1940	Х		Yudith Ita Schwartz	112 Round Hill Rd, Armonk NY 10504	Trinity Corners Corp.
9454	15	PB-A	65, 65A,B Westchester Ave	Antique Store	retail w/2 apts	0.185	1934			Yudith Ita Schwartz	112 Round Hill Rd, Armonk NY 10504. 237-3550	Trinity Corners Corp.
9320	56	PB-A	Westchester Ave	parking	parking w/2 shed	5.084				Pound Ridge Fire District	PO Box 129 Pound Ridge, NY 10576	Quade
9320	58	PB-A	80 Westchester Ave	Fire Department	community facility	0.449		Х	Х	Pound Ridge Fire District	PO Box 129 Pound Ridge, NY 10576	Quade
9320	59	PB-A	78 Westchester Ave	Vacant, World Ins	food prep/office w/apts	0.207	1952	Х		Dail Metzger	Dail Metzger 320 Strawberry Hill Ave, Stamford CT 06902	John Ditore
9320	60	PB-A	76 Westchester Ave	Dinardos/American T	restaurant/retail w/apts	0.207	1955	Х	Х	76 Westchester Ave Realty Co. Ltd.	PO Box 36, Pound Ridge NY 10576	Quade & Roth
9320	61	PB-A	74 Westchester Ave	Blind Charlies/O'Donell	restaurant/retail w/apts	0.207	1968	Х	Х	Scott's Corner Market, Inc.	PO Box 180 Pound Ridge NY 10576	Quade & Clemons
9320	62	PB-A	72 Westchester Ave	PR Dry Cleaners, Plum Plums, Foxy	retail w/apts	0.207				Stephanie Degraff	4606 13th Place, Vero Beach, FL 32960	
9320	63	PB-A	70 Westchester Ave	Promo Queens, Avalon Ins,Barber, Hedgerow, PR Home	retail/office w/apts	0.207	1945		Х	Trinity Lane Ltd.	Attn: Sally Siano 52 Babbitt Rd, Bedford Hills, NY 10507	Frank & Esther Beccaria
9320	64	PB-A	68 Westchester Ave	Chubby's	retail w/apts	0.418	1942	Х		Joseph and Carmella DiPietro	129 Redmond Rd, Stamford CT 06903	Gustav & Lena Shutte
9320	65	PB-A	66 Westchester Ave	Gas Station	retail	0.642		Х		Shaeffer Realty Ltd.	PO Box 380 Pound Ridge NY 10576	
					Subtotal	13.527						
PB-B												
9455	18.9	PB-B, R-1A	26 Lower Trinity Pass	no building	vacant	0.615	1940			Felice Joaquim		Bathrick
9455	20	PB-B	32 Westchester Ave	Wine Connection	retail	0.656	1910	Х	Х	Peter Desimini		Barker
9455	21	PB-B	34 Westchester Ave	Antique	retail	0.652	1965	Х	Х	Linda DiMattia		Frank Columbo & Girolamo Mastromauro
9455	26	RA-1	46 Westchester Ave	Offices	Office	4.589		Х				
9455	27	PB-B, R-1A	38 Westchester Ave	Future Value Assoc	office	0.717	1932	Х	Х	TS Affiliates LLC	Ferrara/Becker	Evelyn Yalien
9455	28	PB-B	40, 40A Westchester Ave	Wittus, Greenfull	retail	0.495				Mastromoro Fam LP		
9455	25	PB-B	54 Westchester Ave	Hamachi, Curry & Hovis, Pound Ridge Painting	restaurant/retail w/ apt	1.632	1869	х	Х	PMNG Management Inc.	PMNG Management LLC, 82 Grandview Blvd, Yonkers NY 10710	Pluto Properties, Inc.
	24	PB-B	56, 60 Westchester Ave	Toys & Sports, Salon, Key Bank, Eye Care	retail w/apts	1.698	1860			David Berman H.	PMNG Management LLC, 82 Grandview Blvd, Yonkers NY 10710	Seymour - Berman - Renovated 1970
9456	4	PB-B	39 Westchester Ave	Private	residential	2.196						
	1.9		55, 57 Westchester Ave	Market, Post Office & vacant	retail	7.707	1976		Х	Roe Scotts Corner LLC	Scott Solomon 46 Westchester Avenue, Pound Ridge, New York 10576	
3.30	2.0		33,37 (1030011030017110	markey rose office a vacane	Subtotal	20.957	2370			Nee seeks corner and	Section of the state of the sta	Evelyn & Benjamin Butterworth
PB-C					Subtotal	20.557						Everying Benjamin Butter Worth
9455	10	PB-C	22, 24 Westchester Ave	vacant PR Painting	office	2.005	1810	х	Х	Stuart Simons	1	Kaufman
			·			_		^	^		26 Westshester Ave 29 Dound Bidge NV 10576	
	13		26 Westchester Ave	Educators Alley	office	0.781	1930	v	v	Pedani Realty Services	26 Westchester Ave 28, Pound Ridge, NY 10576	Scofield
	14		30 Westchester Ave	private	residential	1.002	1934	Х	Х	Paterson		Scofield
9456	8		21 Westchester Ave	private	residential	0.656	1930			James & Elaine Suda		Emily Suda
9456	7		23, 23 A, B Westchester Ave	Kendal Studio & London Joiner	retail w/apt	1.537	1940	Х	X	M. Byrne		McNally
9456	6		27 Westchester Ave	Lionheart Gallery	retail w/apt	0.693	1949		Х	Coleridge Spyder, LLC		Jackson
9456	5		29 Westchester Ave	A Home	residential	3.195	2008	Х	Х	Scotts Ridge Housing Dev. Fund Corp.		Thomas Sefcik
9456	5.5	PB-C	35 Westchester Ave	PR Vet Center	retail w/apt	0.764	1974	Х	Х	35 Westchester Ave., Inc.		Dolensek
					Subtotal	10.633						
TOTAL					Total	45.117						

Waterwater Generation Rates from City Enviornmental Review Technical Manaul

retail 0.24 gallons per day per square foot office 0.10 gallons per day per square foot rest. 35 gallons per day per seat Resident 100 gallons per day per person

Acreage for lots 9455-18.9 and 9455-27 are for PB-B section only and approximate



Wastewater Issues and Solutions identified in historical reports

Potential Problem	•	Reference
Parking Lots 56, 58-64 Block 9320	Max. capacity 24,000 gpd	
	Variance for required separation distance	
Construction subsurface disposal	between well and disposal system	
system@50,000 gpd not feasible	of less than 200 ft.	
	Groundwater within 4 ft. of surface	
	Proximity to wetlands and rocks too large	
	to remove	
	Additional testing required	
Lot 8, 86, 152 Block 9820 (Town Park)	to confirm early findings	Folchetti, 2002
	No bedrock and no groundwater	
	during original test	
	Meets wetland setback dependent	
	on final design	
	slopes may interfere with design choice	
Treatment through golf course irrigation	and require larger area	
	Potential legal issues regarding permitting	
	CT DEP prohibits surface water discharge	
	within water supply basin	



Wastewater Generation Rates

Use	Generation Rates
Residential	100 gallons per day per resident
Community Facilities	0.10 gallons per day per building square foot
Office	0.10 gallons per day per building square foot
Retail	0.24 gallons per day per building square foot
Restaurant	35 gallons per day per seat

0.50 gallons per day per building square foot

Sources:

Food Preparation

New York City Office of Sustainability CEQR

NYC DEP Bureau of Environmental Planning and Assessment

Metcalf and Eddy (1991) Wastewater Engineering. Treatment Disposal Reuse



Wastewater Generation Estimate for Current Occupancy in Scotts Corner

Use	Number/Unit	Wastewater Generation Gallons per Day
Residential/Community Facility	39 Apartments/8,372 Square Feet	11,700/837
Office	15,108 square feet	1,511
Retail	92,588 square feet	15,021
Restaurant/Food Preparation	250 seats/5,041 square feet	8,750/2,521
Total	NA	40,340



Wastewater Generation Estimate for Full Occupancy in Scotts Corner

Use	Number/Unit	Wastewater Generation Gallons per Day
Residential/Community Facility	45 apartments/8,372 square feet	13,500/837
Office	26,728 square feet	2,673
Retail	120,045 square feet	28,837
Restaurant/Food Preparation	250 seats/0 square feet	8,750
Total		54,597



Flow Estimate Comparison

Historic Wastewater Flow Estimates Current Wastewater Flow Estimates

Buildings included in estimate	25	41
Estimated Commercial flow	20,400 gpd	40,300 gpd
Residential Units in estimate	unclear	45
A-Home	0	3,600 gpd
Estimated Residential Flow	4,250 gpd	13,400 gpd

Table 7 NONNO RIDGE WATER/ WASTEWATER TASK FORCE

Known Spill Sites

Facility Name	Address	City	Site ID	Description	Spill Date	Close Date
Abandon Site	55 Westchester Avenue	Pound Ridge	325964	Other	11/21/2000	12/28/2000
Value Clean Cleaners	55 Westchester Avenue	Pound Ridge	325965	Unknown	1/24/2002	3/29/2002
Trinity Corner Shopping Center	55 Westchester Avenue	Pound Ridge	399707	Equipment Failure	2/13/2002	3/5/2002
60-80 Westchester Avenue	60-80 Westchester Avenue	Pound Ridge	102411	Unknown	3/18/2002	4/5/2002
Spill Number 0111906	65 Westchester Avenue	Pound Ridge	173308	Tank Test Failure	8/9/2002	11/12/2002
New Media School House	69 Westchester Avenue	Pound Ridge	59404	Tank Test Failure	6/26/2006	2/24/2012
New Media School House	69 Westchester Avenue	Pound Ridge	305220	Tank Overfill	6/13/2008	6/16/2008
Sally & Joseph Siano Assoc.	70 Westchester Avenue	Pound Ridge	68318	Equipment Failure	3/22/2011	6/1/2011
Spill Number 0009626	74 Westchester Avenue	Pound Ridge	195220	Tank Test Failure	4/14/2011	6/2/2011
Spill Number 0110835	76 Westchester Avenue	Pound Ridge	209563	Tank Overfill	4/5/2016	
Town & Country Auto Inc.	77 Westchester Avenue	Pound Ridge	313756	Tank Failure	3/27/1991	3/10/1992
Texaco	77 Westchester Avenue	Pound Ridge	138800	Unknown	8/26/1994	9/14/1994
Pound Ridge Fire Department	80 Westchester Avenue	Pound Ridge	320739	Tank Failure	12/16/1994	2/18/2005
Albano Appliance	83 Westchester Avenue	Pound Ridge	446942	Equipment Failure	7/1/1993	
Pound Ridge Ambulance	89 Westchester Avenue	Pound Ridge	447921	Equipment Failure	8/8/1995	3/27/2013
Pound Ridge Post Office	57 Westchester Avenue	Pound Ridge	87798	Tank Failure	4/1/1998	4/17/1998
Pound Ridge Veterinary Clinic	35 Westchester Avenue	Pound Ridge	124053	Unknown	12/21/1999	6/1/2000
On Side of Road	Westchester / Salem	Pound Ridge	366006	Other	9/9/1999	2/26/2005

Figure 1 - Scotts Corners Business District

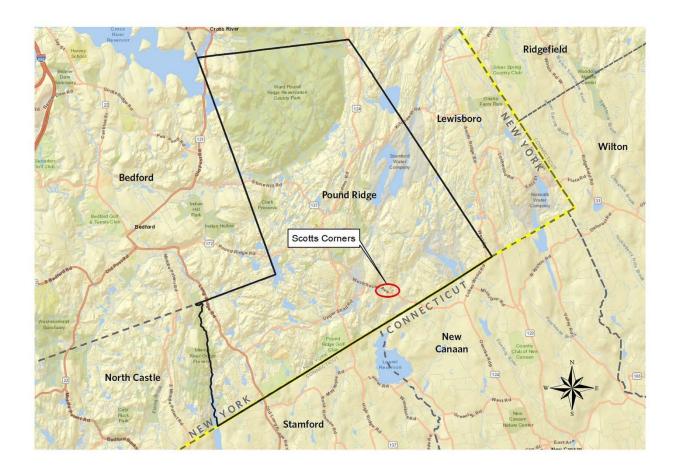


Figure 2a - Historical Septic System Data Zone PB-A

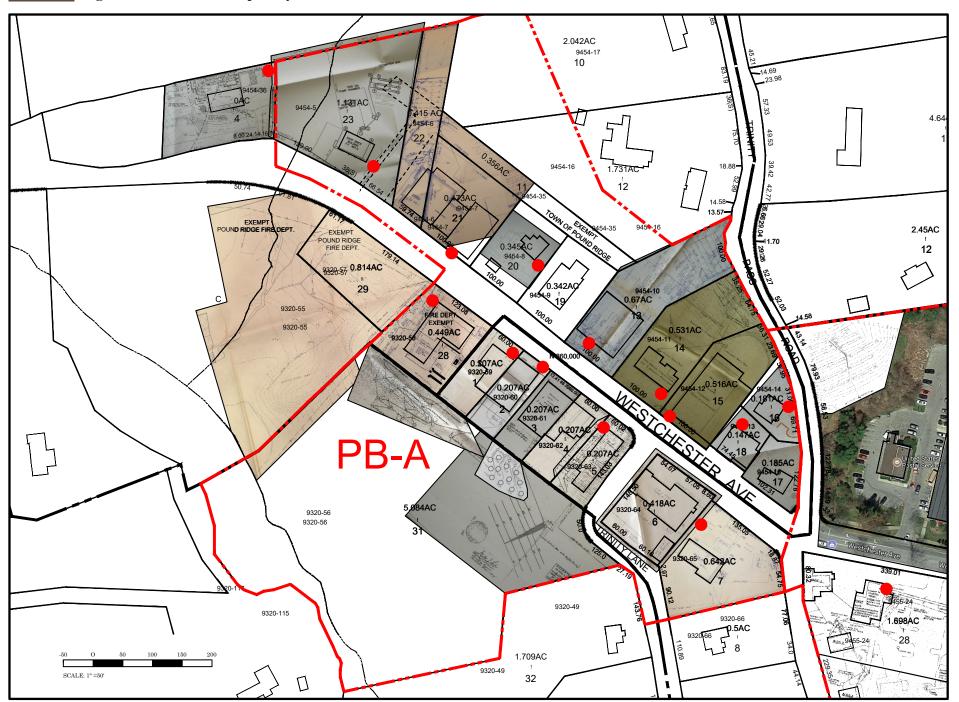




Figure 2b - Historical Septic System Data Zone PB-B

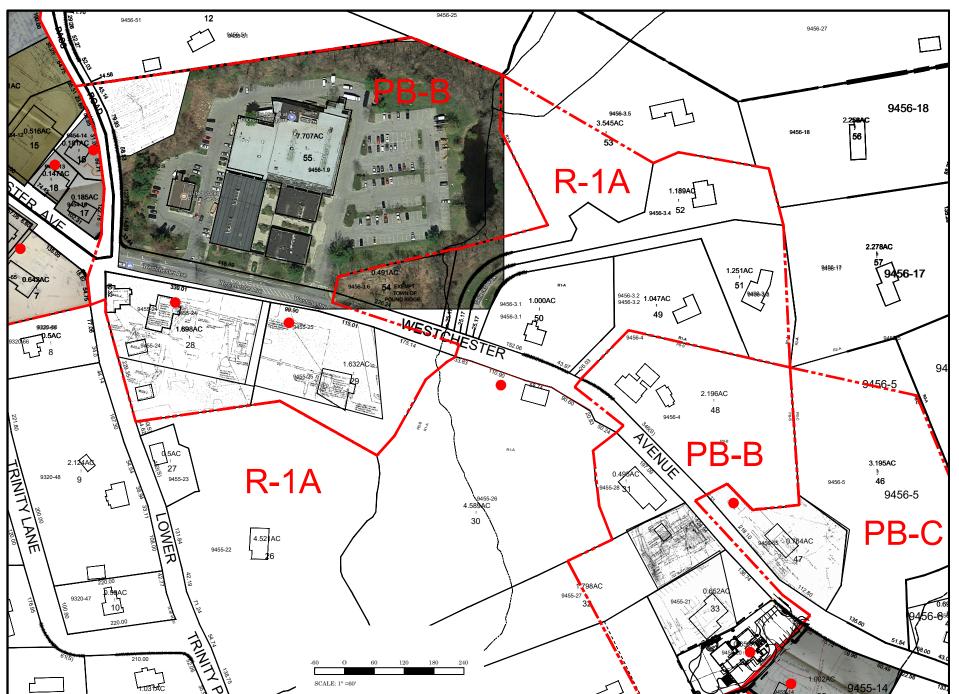


Figure 2c - Historical Septic System Data Zone PB-C

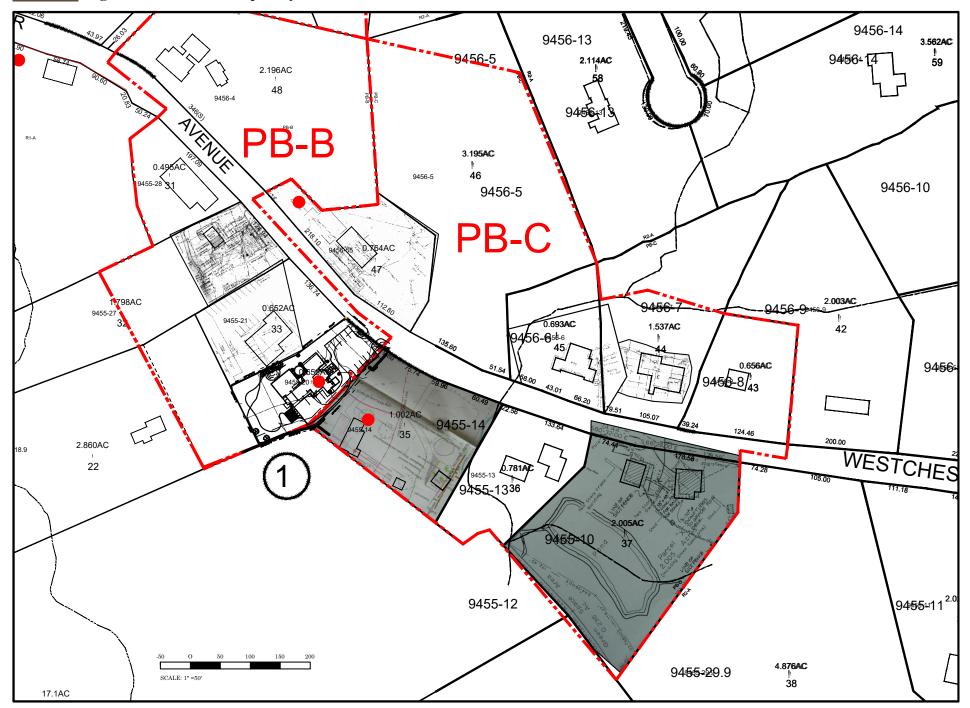


Figure 3 Wetlands, zoning, and topography

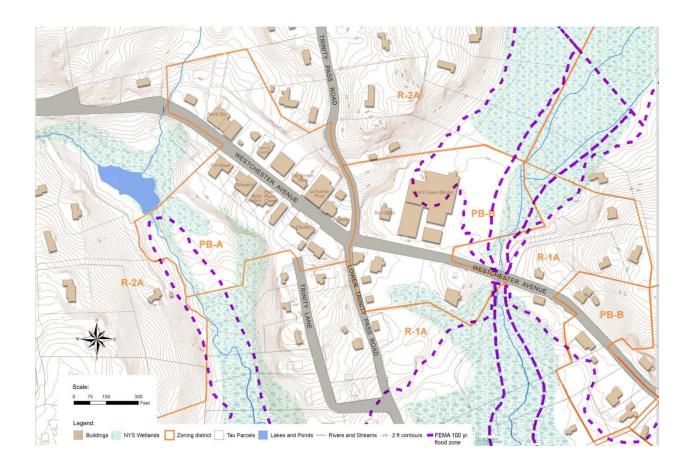
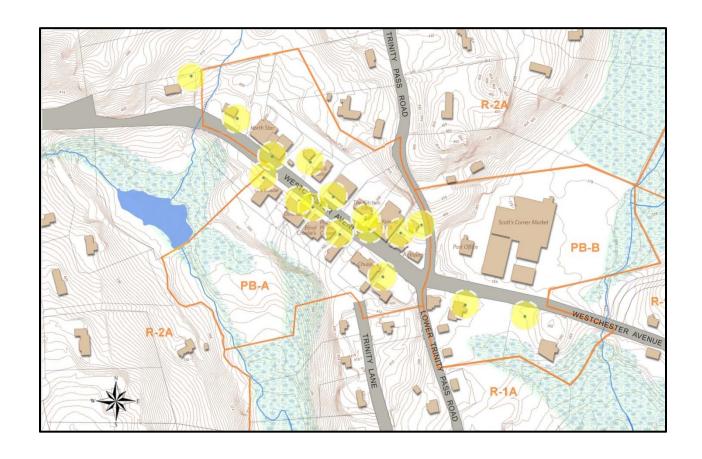


Figure 4 Wells and 100 foot setbacks



Wastewater Generation (Estimates)

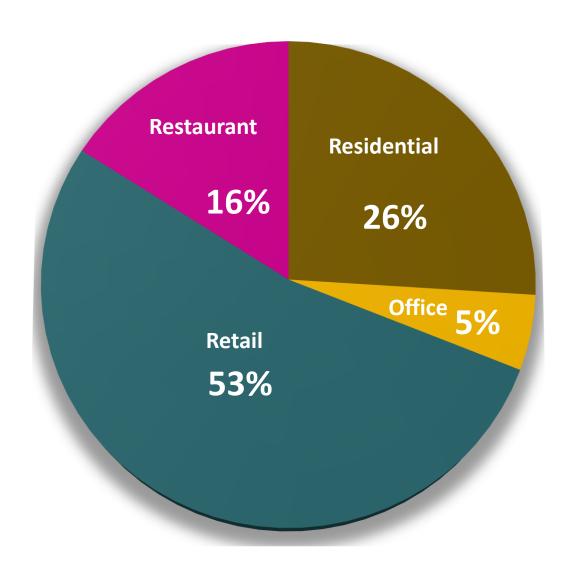
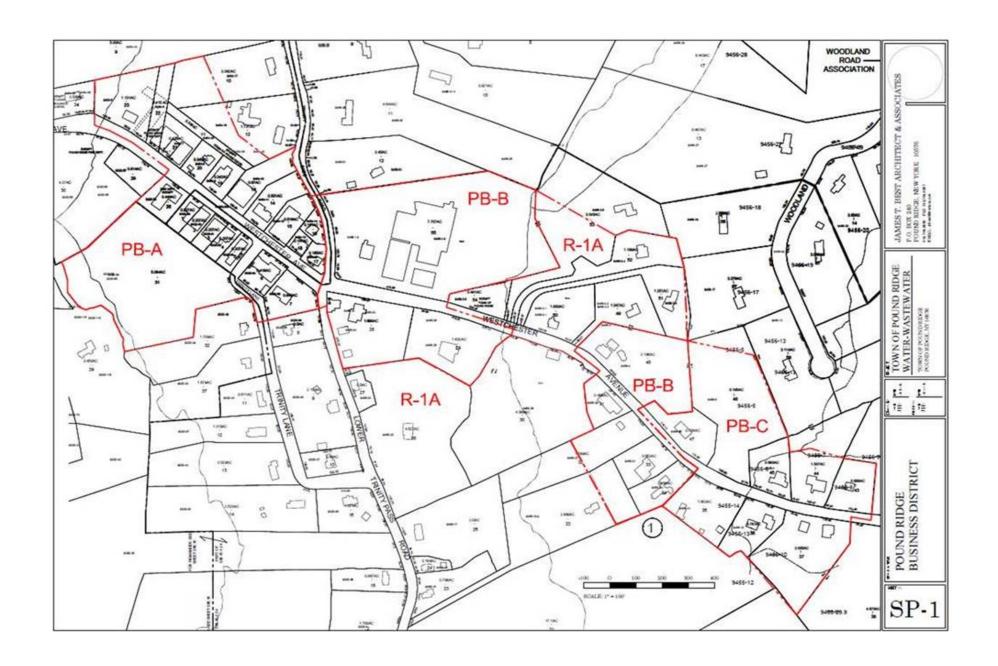


Figure 5: Flow Estimates

Appendix A

Business District Maps





Appendix B-2 Draft Existing Conditions Report Appendices

Appendix A: Historical Wastewater Reports

Appendix for Wastewater Reports

1992 Proposed Scotts Corners Wastewater District, Folchetti & Associates Page 2

- 1. Comprehensive study and proposal for a Wastewater Treatment Plant (WWTP) for pre-treating wastewater and pumping to a Subsurface Disposal System (SSDS).
- 2. Two parcels in Scotts Corners area are under consideration for wastewater treatment plant location, Berman and Quade; neither is acceptable.
- 3. Town parcel Lot 86 Block 9820 Tax Map 19 in Town Park is a potential solution, but requires either 9,000 feet or 6,300 feet of pumping.

Sept., 1998, Malcolm Pirnie, Letter to Clay Fowler PR Planning Board, Pound Ridge Treated Wastewater Effluent Well Injection Page 46

1. Technically and regulatorially, a bad idea – see report.

Sept. 3, 1999 Malcolm Pirnie, Wastewater Disposal Evaluation, Letter to Clay Fowler PR Planning Board

Page 52

- 1. MP was retained to evaluate and provide alternatives separate sewage treatment systems
 - i. Wastewater Treatment Plant, On site treatment, Pump to "Ball Fields".
 - ii. Upgrading selected ssts Needs more study
- 2. Includes Table of existing conditions

June 29, 2000, Malcolm Pirnie to Malcom Pirnie, Scotts Cornet Test Pits and Percolation Test

Page 59

1. Summary of the test, but no results.

July 11, 2000, Malcolm Pirnie to Clay Fowler, Scotts Corners Wastewater Treatment System Page 68

- 1. This solution could be used to treat wastewater from only a particular area.
- 2. Results of test pits and percolation tests behind lots 60, 61 and 62, Block 9320

Sept.26, 2000 Malcolm Pirnie, Letter to Clay Fowler PR Planning Board, Scotts Corner Septic Evaluation – Scope of Work and Cost Estimate

Page 75

- 1. Propose some kind of hybrid system, a combination of new leach fields (behind lots 59 through 63), maximizing the efficiency of the existing systems, and tying them all together.
- 2. Inventory water supply wells, Calculate water uage and wastewater discharge volume, Figure out individual septic system details; tank and field locations and size, Calculate hydraulic loading
- 3. Support creation of a community water supply

April 2002, Scotts Corners Potable Water and Wastewater Conceptual Investigation Letter from Folchetti & Associates to Joy Simpkins, Waste WaterWastewater <u>Page 80</u>

- 1. System investigation for Scotts Corners northwest parking lot.
- 2. Quad Parcel (9320-56) found unsuitable for SSDS.
- 3. Town Park site may be suitable for SSDS, would need variances.
- 4. Golf Course option for disposal through irrigation may be feasible.
- 5. Potable Water assessment, neither of two Stamford systems suitable.
- 6. Water service via Golf Course may be viable alternative. BHC was supportive (out dated).

1992

Feasibility Study

Proposed Scotts Corners Wastewater District

Prepared by Folchetti & Associates

Comprehensive study and proposal for a Wastewater Treatment Plant (WWTP) for pre-treating wastewater and pumping to a Subsurface Disposal System (SSDS). 5 Sites identified and tested with recommendations.

- Estimated Cost for plant and collection system is \$1,570,000.
- Wastewater flow of 24,700 gpd.
- Sq. Ft. has increased annual average of approx. 3.4%/year since 1974 (inflated because of size of Trinity Corners Shopping Center).
- Adjusted growth rate without TCSC is 0.75%/year.
- Estimated 2012 design flow is 28,000 gpd.
- Westchester County Health Department (WCHD) and Stamford Water Company is willing to relax separation distances in case of subsurface discharge of treated effluent.

Technical notes extracted by TD on Folcetti study 1992; 3/6/2016

- 1.1.2 DEC regulations prohibit point discharges into AA streams, aprt of the Stamford Water Company
- 1.1.4 The estimated existing combined commercial and residential waste water flows in Scotts Corners is 24,700 gpd
- 1.1.5 The growth rate of Scotts Corners is 3.4% per year since 1974, but EXCLUDING Trinity Corners shopping Center is 0.75% per year.
- 1.1.8 Based upon the 0.75% growth rate the estimated design flow for 2012 is 28,000 gpd
- 1.1.9 The Quade and Berman parcels are unsuitable for discharge sites.
- 1.1.10 WCHD and Stamford Water might work with Pound Ridge to reduce separation distances in the case of subsurface discharge of treated effluent.
- 1.1.11 WCDH will not consider relaxation of standard application rates even though effluent is treated.
- 1.2 Conclusions:
- 1.2.1 A wastewater treatment system with subsurface disposal of treated effluent will alleviate the existing sewage problems in the Scotts corner area.
- 1.2.2 Based on the nature of the soils, pretreatment with a conventional system, is recommended prior to subsurface discharge.
- 1.2.3 Two parcels in Scotts Corners area are under consideration for wastewater treatment plant location.
- 1.2.4 Base upon a reconnaissance and a soil test program, the Town Parcel Lot 66, Block 9820, Map 19 may be suitable for subsurface disposal of plant treated effluent.
- 1.2.5 The estimated cost in 1992 dollars is \$1,570,000 for a collection system and SSDS.
- 3.1 The Scotts Corners Commercial District is about 41.1 acres. The primary zone is 24.43 acres. Fig 3.1
- 3.1.1 Table 3-1; Building square footage

Commercial – 159,680 Residential – 13,222 Total 172,902

3.1.2 Table 3-2

Remaining developable square footage

 Commercial
 62,193

 Residential
 67,699

 Total
 129,892

3.2.1 Estimated Existing Flows

Based upon the DEC "Design Standards for wastewater Treatment Works 1988"

Commercial flows 20,393 Residential flows 4,520

Total 24,643 (noted above)

- 3.2.2.1 Existing and Saturation flow projection results in unreasonable flows of 64,062.
- 3.2.2.2 Revised projection using dry and wet commercial results in a 2012 flow of 27,900 or 28,000. See text for projection methodology.

4.2 Design Loads

Table 4-1 Design loads for 28,000 gpd or 0.028 mgd based upon ten states standards

 Suspended solids
 240 mg/l
 56.05 #/d

 BOD5
 220 mg/l
 51.4 #/d

 NH3-N
 25 mg/l
 5.8 #/d

 Phosphorus
 10 mg/l
 2.3 #/d

4.3 Treatment Required

- 1. 3rd paragraph page 15 "the use of innovative/alternative using wetlands, land treatment, do not seem acceptable to DEC and WCHD".
- 2. Could pump the effluent to a different watershed
- 3. Subsurface discharge system (SSDS)

4.4 Collection System

8 inch gravity sewer pipe, and 4 inch force mains, and two pump stations, See fig 4-1 Ten States requires 4.0 factor so collection system would have to handle 120,000 gpd.

4.5 Treatment Alternatives

See report for treatment plant suggestions - Sequencing Batch Reactor (SBR) See Fig 4.2 for process flow diagram

5.0 Three SSDS Treatment Site Alternatives

Berman Parcel on Trinity Pass Rd.

Quade Parcel behind the PR Fire Department

Town Parcel Lot 86, Block 9820, Tax Map 19

5.0 Site Alternatives

Page 20 - Treatment requirements result in the need for 2 acres plus.

- 5.1 Berman parcel see text for discussion
- 5.2 Quade parcel see text for discussion

Neither are acceptable

5.3 Town parcel

Did perc test and given this result and the area of land available it would work Would require 9,000 of force main.

Or with an easement this could be reduced to 6,300 feet

- 5.4 Conclusion is that the treatment plant should be in Scotts Corners and the treated effluent pumped to the Town Park.
- 6.1 Cost for it all is \$1,570,000 plus 20 year loan at 6%. O&M at \$38,000 per year.
- 6.5 Cost Allocation Alternatives
- 6.5.1 Scotts Corner alone a, assessed property value; b, metered use; c, prorating
- 6.5.2 Town wide allocation
- 6.5.2.1 Single tier Capital and operating costs borne town wide based upon flat fee or property value.
- 6.5.2.1 Double tier Captital costs town wide O&M covered by users
- 6.6 Alternative Financing SRF, FMHA, HUD,

WASTEWATER TREATMENT FEASIBILITY STUDY

SCOTTS CORNERS POUND RIDGE, NY

JUNE 1992

J. ROBERT FOLCHETTI & ASSOCIATES

ENVIRONMENTAL ENGINEERS P.O. BOX 374 BREWSTER NY 10509

SOMERS

FEASIBILITY STUDY PROPOSED SCOTTS CORNERS WASTEWATER DISTRICT POUND RIDGE, NEW YORK

May 1992

J. ROBERT FOLCHETTI & ASSOCIATES
P. O. Box 374
Brewster, New York 10509
(914) 279-3346

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Appendix G	State Revolving Fund Direct Loan Application Form
	State Revenue Land Land Land Room
Appendix H	Farmers Home Administration Loan Application Form
Appendix I	Housing and Urban Development Loan Application Form
Appendin i	

- 1.0 Summary of Findings, Conclusions and Recommendations
- 1.1 Findings
- 1.1.1 That the Scotts Corners Commercial District of Pound Ridge is primarily composed of low water use, retail establishments that are individually served by SSDS's and private wells.
- 1.1.2 That Scotts Corners lies in the watershed of the Stamford Water Company. All streams in this watershed are classified 'AA' Special. NYSDEC regulations prohibit point discharges into waters so classified.
- 1.1.3 That the Trinity Corners Shopping Center has a long history of SSDS failures. Samples taken from the shopping center storm drain in the third quarter, calendar year 1991, show elevated levels of fecal coliform and fecal streptococci. These failures have the potential to impact directly on the quality of water in the Stamford Water Company watershed.
- 1.1.4 That the estimated existing combined commercial and residential wastewater flow in Scotts Corners is 24,700 gpd.
- 1.1.5 That square footage in Scotts Corners has increased an annual average rate of approximately 3.4% per year since 1974.
- 1.1.6 That this growth rate is inflated due to the size of the Trinity Corners Shopping Center.
- 1.1.7 That the adjusted growth rate without Trinity Corners
 Shopping Center is 0.75% per year.

- 1.1.8 That based on this rate of growth, the estimated 2012 design year flow is 28,000 gpd.
- 1.1.9 That the Quade and Berman parcels are unsuitable for use as subsurface discharge sites.
- 1.1.10 That the Westchester County Health Department (WCHD) and Stamford Water Company both have stated that they are willing to work with the Town of Pound Ridge to resolve existing problems in terms of some relaxation of separation distances in the case of subsurface discharge of treated effluent.
- 1.1.11 WCHD will not consider relaxation of standard application rates, even though treated effluent would be applied.
- 1.1.12 That Scotts Corners will qualify for SRF status once the wastewater district formation process is commenced.

1.2 Conclusions

- 1.2.1 That a wastewater treatment system with subsurface disposal of treated effluent will alleviate the existing sewage problems in the Scotts Corners area.
- 1.2.2 That, based on the nature of the soils, pretreatment with a conventional system is recommended prior to subsurface discharge.
- 1.2.3 That two parcels in the Scotts Corners area are under consideration for wastewater treatment plant location.
- 1.2.4 That based on a reconnaissance and soil test program the Town parcel (Lot 86, Block 9820, Map 19) may be suitable for subsurface disposal of plant treated effluent.

1.2.5 That the estimated capital cost, in 1992 dollars, for the treatment plant, collection system and SSDS is approximately \$1,570,000.

1.3 Recommendations

- 1.3.1 That the conceptual cost estimate be evaluated by the Town.
- 1.3.2 That, if this conceptual estimate is acceptable, the Town of Pound Ridge proceed with the major tasks shown on Figure 7-1.
- 1.3.3 That the Town of Pound Ridge continue to explore innovative systems for subsurface disposal with the agencies.

2.0 Introduction

The Scotts Corners area of the Town of Pound Ridge is not presently served by a municipal sewer system. The structures in the area are served by a Sub-Surface Disposal System (SSDS) handling domestic and commercial wastewater flows. The geologic and hydrogeologic conditions of the area are not well suited for this type of treatment. These conditions have resulted in frequent failures. While all of these failures have not been documented, the Westchester County Health Department and Stamford Water Company as well as many residents and business owners are well aware of the problem.

The notable exception to this lack of documentation is the Trinity Corners Shopping Center. Since its construction in the early 1970's, the SSDS for this facility has been subjected to a series of failures resulting in discharges of untreated sewage to the ground surface and drainage of the local watershed. The fact that this watershed serves the Stamford Water Company and the City of Stamford, Connecticut is cause for concern. Recent reclassification of surface waters in this area to 'AA Special' further complicates the situation. NYSDEC "Water Quality Regulations for Surface Waters and Ground Waters" (6 NYCRR Part 701.3.C.) prohibits discharge into waters classified.

As a result of these problems, the Pound Ridge Sewage Treatment Committee, through the Town Board of the Town of Pound Ridge, retained JRFA to study the feasibility of forming a Municipal Wastewater District and constructing a collection system and sewage treatment plant to serve the Scotts Corners area.

The following sections describe the present and projected future conditions, treatment options, estimated costs and other concerns for the Scotts Corners Wastewater District.

3.0 Existing Conditions and Projections

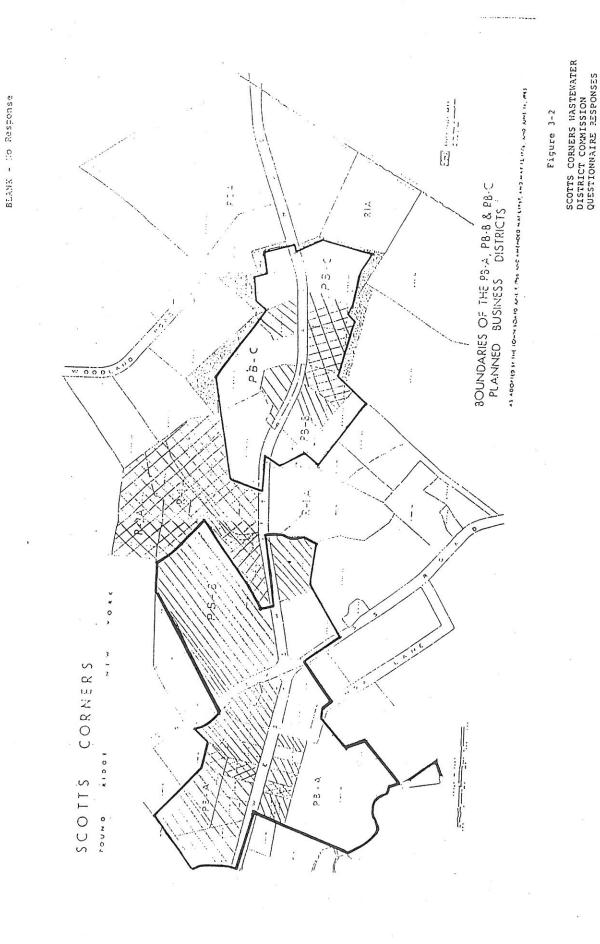
3.1 Land Use

Scotts Corners is situated in the southeast corner of the Town of Pound Ridge. It is bordered on the northeast by the Town of Lewisboro, on the west by the Town of Bedford and on the south by the City of Stamford, Connecticut.

The Scotts Corners Commercial District area encompasses approximately 41.1 acres. This is divided into primary and secondary zones (see Figure 3.1). The primary zone encompasses 24.43 acres and the secondary zone encompasses 16.68 acres.

The zones were termed primary and secondary based on density and history. The primary zone has a history of SSDS failures, particularly at the Trinity Corners Shopping Center. It also has a higher population and use density. The secondary zone is primarily a low density, residential area and has virtually no documented history of SSDS failure. The Pound Ridge Sewage Treatment Committee issued a questionnaire to the owners/residents in both districts. Those responses are indicated in Figure 3-2. The secondary zone was eliminated from consideration for three reasons:

- No substantial history of SSDS failures.
- 2. Low density population/water use.
- 3. Predominantly unfavorable response to the District Formation questionnaire. Over 50% of this zone



/// Flavorable Response
X - Unfavorable Response

0.325.23

either responded in the negative or failed to respond at all.

Consequently the primary zone constitutes the proposed wastewater district. Should the future bring about a change in conditions, the secondary zone may petition to enter the proposed District.

3.1.1 Existing Use

F. P. Clark Associates 1990 Planning Study provided the basis for all land use and demographic data. A field survey was conducted to verify and update existing uses.

Land use within Scotts Corners is based on the zoning regulations of the Town of Pound Ridge. Each lot in planned business district A has a building envelope. Each lot in planned business district B has a maximum 2,500 square foot allowable building footprint size.

Table 3-1 illustrates the existing uses of the primary zone in Scotts Corners.

Table 3-1

Existing Land Use in Scotts Corners

Building Square Footage	ē	Primary Zone
Commercial		159,680
Residential (Apartments)		13,222
TOTAL		172,902

There is presently a total of 172,902 square feet in existence in the primary district.

Presently, wastewater disposal in Scotts Corners is through use of individual SSDS's. There is some evidence on record documenting to a pattern of system failure in the area. Personal review of available records at the WCHD revealed approximately a dozen complaints on private SSDS's. In addition the Trinity Corners Shopping Center has experienced multiple failures and is presently pending court action with the WCHD. The Stamford Water Company has determined this system to be a detriment to their raw water quality. Pertinent information has been requested under the Freedom of Information Act from both the WCHD and Stamford Water Company and is included in Appendix A.

3.1.2 Future Use

The Pound Ridge Zoning Ordinance limits the maximum allowable floor space per lot. In PB-A each lot has a legislated building envelope; in PB-B each lot has a maximum 2,500 square foot building footprint size and a 'floor area ratio' that defines the amount of second story floor space allowed. Additionally, a percentage of this second floor space must be used for residential purposes. The zoning ordinance and the Clark Study define these numbers explicitly.

Table 3-2 illustrates the maximum remaining square footage developable in the proposed District.

Table 3-2

Remaining Developable Square Footage in Scotts Corners

-	Primary Zone
Commercial	62,193
Residential	67,699
TOTAL	129,892

These values are influenced by several factors, as follows.

- o First, the available commercial square footage in the primary zone does not include lot 1.9. This lot contains the shopping center and exceeds the maximum allowable F.A.R. per the zoning ordinance.
- Second, there was no allowance made in these figures for future residential square footage on this lot. Though the code permits second story residential use above the Shopping Center, the nature of the structure and its current use suggest that it is not appropriate for residential use. Therefore, residential potential for lot 1.9 was not included in the residential square footage depicted in Table 3-2.

3.1.3 Demographic Data

The Clark Study established several patterns between 1974 and 1990 regarding growth in Scotts Corners. These patterns reflect changes in existing square footage over

that period of time. Table 3-3 summarizes the Clark Study Findings.

Table 3-3

Change in Square Footage in Scotts Corners 1974-1990

	Com	mercial Use	Residential Use			
District	Total % Change	% Change/Year	Total % Change	% Change/Year		
PB-A	+ 25.8%	+ 1.6%	- 8%	5%		
PB-B	+245%	+15.3%	-49%	-3%		
Average		+ 8.45%		-1.75%		

These changes reflect some significant issues. First, the decrease in residential use in PB-A is a result of changeover to small commercial establishments in older buildings. The loss of residential square footage in PB-B is assumed to reflect demolition in conjunction with construction of Trinity Corners Shopping Center.

Second, the increase in commercial square footage is skewed due to the shopping center. This is assumed to be a one time, non repetitive event. The increase in commercial square footage in PB-A is assumed to be representative of reasonable commercial growth in the area.

Finally, U.S. Census Data, as kept by the Westchester County Planning Department, shows 5.7% population increase from 1970-1980 and 13.5% population increase between 1980-1990. Hence, growth from 1970-1990 is less than 1%

per year. Since the annual population growth is less than the representative commercial growth (1.6%), it is assumed that commercial growth will decrease, until such time as future population growth causes an increase in commercial demand. Therefore it is reasonable to expect an annual commercial growth rate of 0.75% for a neighborhood shopping area under these conditions.

In addition to the Clark data, JRFA estimated the saturation density of the area. This saturation estimate is based on each zone achieving the maximum remaining square footage allowed by the current zoning ordinance. These figures were determined from the maximum square footage per lot allowed by the zoning ordinance. Existing square footage was subtracted from the maximum allowable. The difference, divided by the existing square footage, provides the percent change to saturation. Table 3-4 summarizes these percent changes from 1990 to the saturation condition.

Table 3-4

Percent Change 1990 to Saturation

District			ommercial Us	e	Residential Use			
		Exist SF	Saturation SF	% Change	Exist SF	Saturation SF	% Change	
PB-A	¥	81,239	143,522	+77	12,622	71,626	+470	
PB-B*		78,441	58,225		600	11,604	+1834	

^{*} The PB-B saturation SF is lower than the existing SF figures because lot 1.9 is over built. The saturation SF is taken from the Pound Ridge Zoning Ordinance.

With the exception of the commercial growth in PB-B, the averages shown are extraordinary for both commercial and residential change. These rates are clearly unreasonable.

Based on a 0.75% per year increase over the next 20 years, a potential growth projection may be made. Table 3-5 summarizes this potential growth.

The 2012 square footage will be used to calculate the design flows.

Table 3-5

Projected 2012 Square Footage Increase at 0.75%/Year Growth

	Commerc	ial Use	Residential Use			
	1990	2012	1990	2012		
	Existing	Projected	Existing	Projected		
District	(Sq.Ft.)	(Sq.Ft.)	(Sq.Ft.)	(Sq.Ft.)		
PB-A	81,081	93,243	12,262	14,101		
PB-B*	76,132	78,819	2,909	3,345		

^{*} PB-B commercial expansion predicted for lots 24 and 25 only. PB-B existing residential includes lot 24 only; the residential growth prediction is based on this figure only.

3.2 Flows

3.2.1 Estimate of Existing Flows

In the absence of metered water use data in Scotts Corners, the estimate of existing wastewater flows is based on the New York State Department of Environmental Conservation (DEC) Publication "Design Standards for Wastewater Treatment Works (1988)". This publication establishes average daily wastewater flows for a variety

of water users. The commercial use averages are based on a gallon per day (gpd) per square foot for dry users, or gpd per seat for wet users such as restaurants. Residential use averages are based on gpd per bedroom.

In general, the Scotts Corners area is occupied by dry use establishments. Per the DEC Standard, these are assigned a 0.10 gpd per square foot use factor. The most notable exception to this use is in restaurants and service stations. Ordinary restaurants are assigned a 35 gpd per seat use factor by DEC. Service stations are assigned a rate of 400 gpd per sanitary closet. Table 3-6 summarizes the estimated existing flows.

Table 3-6

Estimated Existing Flows in Scotts Corners GPD

	Commercial Flow	Residential Flow	Zone Total
Primary Zone	20,393	4,250	24,643

3.2.2 Projection of Future Flows

Two future flow projections have been made. The first is based on maximum expansion of the District, called saturation flow. The second is based on District expansion at a rate of 0.75 percent per year up to 2012, the design year of the plant.

3.2.2.1 The projection of saturation flow for Scotts Corners is based on the combination of existing flow and

additional flow resulting from saturation. Table 3-7 summarizes this projection.

Table 3-7

Estimated Flow at Saturation

	Exist +	Exist Resid	=	Total Exist	+	Proj + Comml +	Proj Resid =	Total Proj
Pri Zone	20393	4250		24643		10919	28500	64062

Clearly projecting an increase in use and flows to this extent is unreasonable.

3.2.2.2 The design year flow projection for District expansion at a rate of 0.75 percent per year is based on the estimated increase in square footage by the year 2012 (the design year).

The ratio of commercial wet users vs. total use, by square foot, was carried from the existing 1990 data to the projected 2012 figures. This ratio was established using the PB-A district as a standard, since the majority of the wet users in Scotts Corners are located in this District. The equation yielded approximately 6.3% wet use in the PB-A District. This percentage was applied to the total increase in projected square footage as a reasonable wet user increase at the design year.

Based on the Zoning Ordinance, F.A.R., and the Clark Study, the increase in residential square footage was assessed as two bedroom apartments.

Table 3-8 summarizes the projected flow increase at 0.75% growth per year.

Table 3-8

Estimated 2012 Flow GPD

Flow Class		1990 Ex			2012 Estimated		
		Sq.Ft.	Flow	Sq.Ft.	Flow		
Commercial,	Dry	153,031	15,218	164,647	16,809		
Commercial,	Wet	6,649	5,175	7,415	6,435		
Residential		12,262	4,250	14,101	4,940		
	TOTAL		24,643		27,984		

4.0 Treatment

4.1 Design Flows and Loads

4.1.1 Design Flows

Based on the established growth rate, existing zoning, Town Master Plan and discussions with the Pound Ridge Sewage Treatment Committee, an average day design year flow of 28,000 gpd is established. This flow assumes that the alleged infiltration problems at Trinity Corners Mall will be corrected.

4.2 Design Loads

As Scotts Corners does not have an existing treatment facility, a characteristic study to determine typical

wastewater quality parameters is not feasible. Existing literature and company experience were used to determine acceptable parameters that are in accordance with the Ten State Standards. Table 4-1 depicts these parameters.

Table 4-1

Design Loads

Parameter	Concentration	#/D @ .028 mgd
Suspended Solids	240 mg/l	56.05
BOD ₅	220 mg/l	51.4
NH ₃ -N	25 mg/l	5.8
Phosphorus	10 mg/l	2.3

4.3 Treatment Required

The primary criteria for determining appropriate treatment in the Scotts Corners area is the 'AA' Special surface water classification. NYSDEC reclassified these waters at the request of the Stamford Water Company. Prohibition of point discharge into these waters applies to all surface waters in the Scotts Corners area.

Based on discussions with WCHD and NYSDEC this is interpreted as requiring subsurface discharge of treated wastewater effluent.

Consequently use of innovative/alternative systems utilizing wetlands, land treatment, etc. do not appear acceptable to the agencies. Two possible alternatives remain. One alternate is to pump effluent out of the

Stamford Water Company watershed and discharge into a different watershed where surface discharge is acceptable. Such an alternate would generate additional pumping and piping costs. Additionally, significant opposition can be expected from the residents and municipalities in whose watershed the proposed discharge may occur.

The second alternate is to use a Sub-Surface Discharge System (SSDS). The regulatory agencies have indicated that pretreatment is recommended prior to subsurface discharge. Subsurface discharge standards, in accordance with NYSDEC and WCHD regulations, will have to be met.

Pretreatment, in the form of a wastewater treatment plant (WWTP) is recommended for several reasons:

- 1. WCHD and Stamford Water Company are willing to consider relaxation of required separation distances for pretreated waste. Given the wide distribution of rock and surface water in the area, and relatively shallow depth to ground water, this may prove to be a significant benefit in locating an acceptable subsurface disposal area.
- Pretreatment affords much more effective treatment of organic loads and solids than does subsurface discharge of septic tank effluent.
- Consequently pretreatment will markedly extend the life expectancy of an SSDS.

- 4. Failure of a 30,000 gpd SSDS without pretreatment would present problems several orders of magnitude greater than those historically associated with the Trinity Corners Shopping Center.
- 5. Given the regulatory situation and geologic and hydrologic conditions in the Scotts Corners area, pretreated subsurface discharge is the most environmentally sound option.

4.4 Collection System

There are currently no base maps of the Scotts Corners area available. As a result, the collection system is currently a conceptual estimate based on field observations within the proposed District limits. Length of pipe run is based on a 1,000 scale USGS topographic map. All gravity sewer pipe is presently assumed to be 8 inch diameter minimum, and force mains 4 inch diameter. Two pump stations are assumed. The conceptual sketch shown in Figure 4-1 utilizing a zoning map base. Based on the Ten State Standards, the Peak Hourly Flow factor is established at 4.0. This equates to a peak hourly flow rate of 0.12 mgd (120,000 gpd). The Peak Hourly Flow will be considered in the design of the collection system and plant as necessary. The concept is subject to change pending receipt of detailed topographic maps.

()_ 27 4/16/92 CONCEPTUAL COLLECTION SYSTEM SKETCH 3+ 1+0.1 Scale: 5/8" = 100' Figure 4-1 1.39 Ac. RAIA R-1 A R-2A 7 00 JEER -1 / 1 / 1 / 1 STATION PB-B α X 0 · Her care a. ¥ W Z CORNERS ш RIDG PB-A : PB-A POUND NOTTELS TO TREATMENT PLENT (LOCATION TO BE DETERMINED)

4.5 <u>Treatment Alternatives</u>

Several treatment processes were identified and evaluated. The Chromaglass Sequencing Batch Reactor (SBR) was considered. The SBR price is comparable to that of conventional treatment processes. WCHD is presently considering acceptability for use in Westchester County (see Appendix F). The evaluation was based on the following criteria.

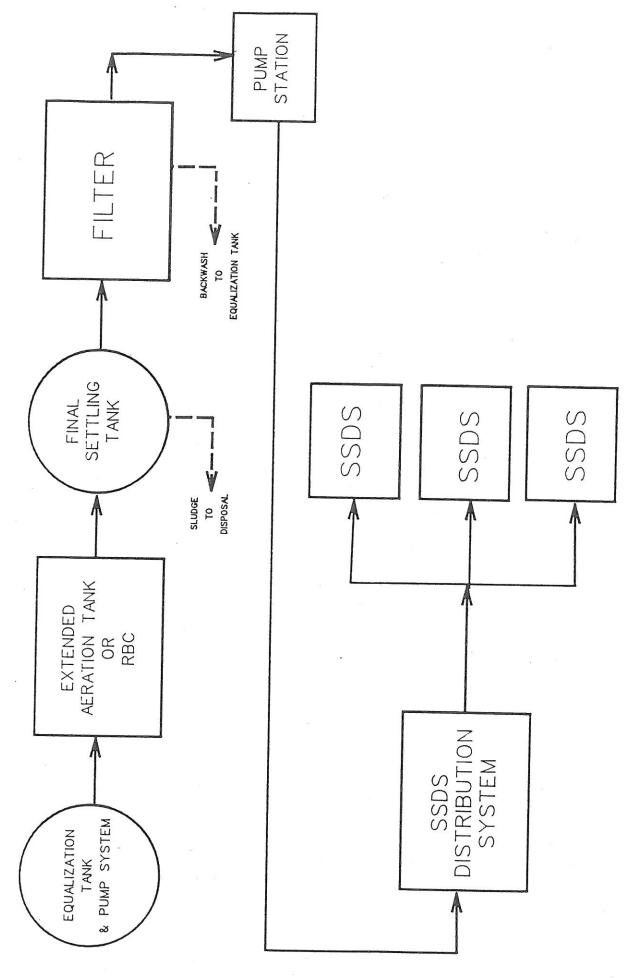
- 1. Process reliability.
- 2. Total annual costs.
- Process flexibility in meeting the increased flow volume over the design period.
- 4. Adaptability for future treatment requirements.
- 5. Site constraints including room and surroundings.
- 6. Regulatory agency considerations.

The processes considered are as follows:

Alternate 1 - Extended aeration

Alternate 2 - Rotating biological contactors

Both processes will be preceded by equalization and followed by filtration. This process train will produce a highly stabilized effluent which should result in maximizing the life of the subsurface disposal system. Figure 4-2, the process flow diagram, is a generic depiction of the process.



The final selection of effluent standards will be decided by NYSDEC during the State Pollution Discharge Elimination System process. This information will be the basis for study and analysis during the Facility Report Stage and will determine the final selection of a treatment process.

5.0 Site Alternatives

Three SSDS sites were proposed for testing to JRFA by the Pound Ridge Sewage Treatment Committee. One was the Berman parcel located on Trinity Pass Road. The second was the Quade parcel located behind the Pound Ridge Fire House. The third was the Town owned parcel, Lot 86, Block 9820, Tax Map 19. Among other sites considered was the Stamford Water Company (SWC) parcel bounded by Fancher Road and Westchester Avenue. They were requested to consider this as a possible site for either the treatment plant or the SSDS. After due consideration, SWC declined use of this parcel for either purpose.

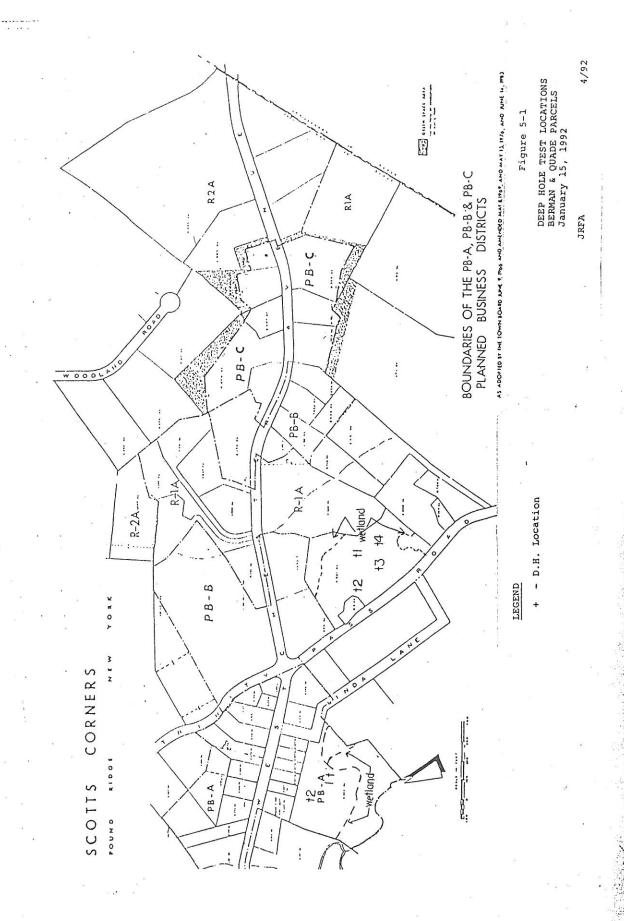
In view of a design flow of 28,000 GPD, SSDS requirements are extensive. Size of the system is based on acceptable application rate of effluent to soil. The WCHD has stated that they will not relax application rate standards. Assuming a percolation rate of 30-45 minutes, the application rate will be .5 gallons/day/square foot. Assuming use of rectangular galleys, and factoring in separation between galleys and between laterals, yields a

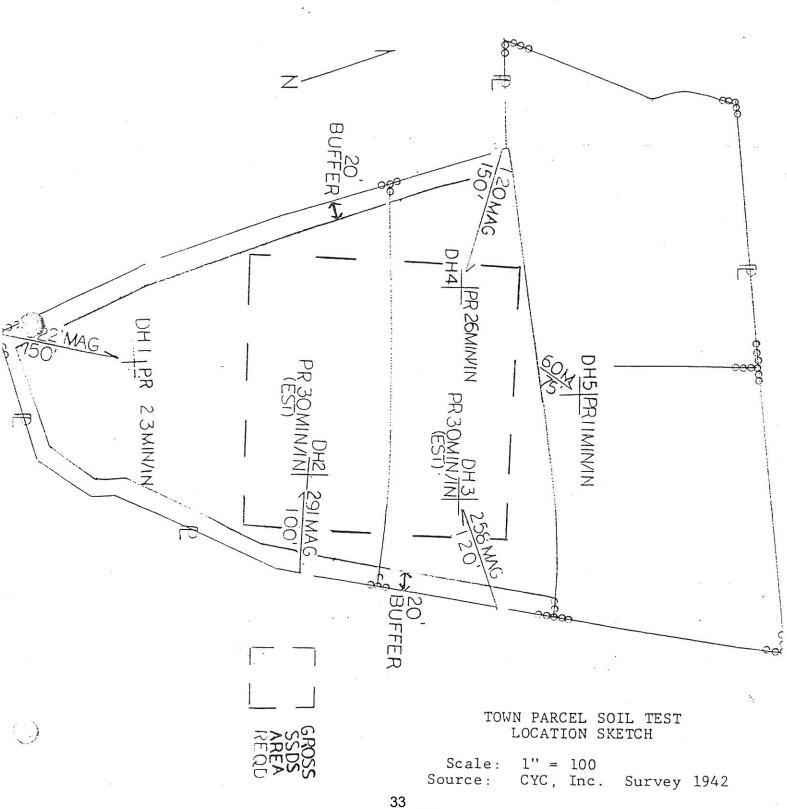
required minimum SSDS area of approximately 2 acres. Additional area would be required for buffers and pumping/distribution structures and expansion.

Deep hole tests were conducted on the Quade and Berman parcels on January 15, 1992. Deep hole tests were conducted on the Town parcel on May 5, 1992 and percolation tests were conducted on May 19, 1992. The Town of Pound Ridge Highway Department provided equipment and operators for this job. Location of the test pits on each lot is depicted in Figures 5-1 and 5-2. Appendix B depicts individual data for each hole.

- Berman Parcel. Four holes were dug on the Berman parcel.

 Two of them, numbers 2 and 3, encountered bedrock or boulders too large to move with a backhoe within 3 feet of the surface. Holes 1 and 4 both struck bedrock or rocks too large to move at seven feet. Both holes had high clay content in the A Horizon and sandy clay sand content in the B Horizon. Water flowed into Hole 1 at seven feet and into Hole 4 at five feet. General limitations for standard SSDS the Berman parcel include:
 - 1. Tight soils.
 - Bedrock or rocks too large to move with a standard backhoe.
 - 3. Groundwater rose to within 4 feet of the surface.
 - 4. Useable area is extremely limited due to proximity to wetlands, rock and groundwater.





JRFA

- Mole 1 hit bedrock or rocks too large to move at five feet and Hole 2 hit the same at six feet. Both holes had a sandy A Horizon. Hole 1 had high clay content in the B Horizon that made a good cast. Hole 2 had high sand content in the B Horizon that cast poorly. Water flowed into Hole 1 at five feet and into Hole 2 at four feet. General limitations for standard SSDS aboard the Quade parcel include:
 - Bedrock or rocks too large to move with a standard backhoe within 5 feet of the surface.
 - 2. Groundwater within 4 feet of the surface.
 - Useable area is extremely limited due to proximity to wetlands, rock and groundwater.

Both sites are unsuitable for standard SSDS. Even with pretreatment, waivers would still be necessary for rock, ground water and surface water/wetlands. Assuming approval of necessary waivers, both parcels are only large enough for the SSDS alone. There is not sufficient useable land on either parcel for the plant, SSDS and required expansion area.

5.3 Town Parcel Lot 86, Block 9820, Tax Map 19. Five holes were dug on the Town parcel. The most shallow hole was seven feet deep and the deepest hole was over nine feet deep. All holes had clayey sand in the A horizon. Hole 1 had clayey sand in the B horizon; holes 2, 3 and 5 had

sandy clay in the B horizon; hole 4 had coarse, sandy gravel in the B horizon. Holes 3, 4 and 5 all displayed a C horizon primarily composed of gravelly sand. Neither bedrock nor groundwater was encountered in any hole.

Percolation tests were conducted at all five locations in accordance with NYSDEC "Design Standards for Wastewater Treatment Works, 1988". All tests were conducted at a total depth of 4 feet. See Appendix B for water surface elevation in each hole. Perc holes 1, 4 and 5 were replenished after 1 inch of drop after each run. Holes 2 and 3 were filled and measured at the end of the test period without replenishment to test varying head conditions. Table 5-1 provides percolation data for each hole tested.

Table 5-1

Percolation Rates on Town Parcel, in min/inch

Ni Ni	Test #						
	1	2	. 3	4	Avg .		
Hole 1	22:40	22:17	23:30	23:20	22:40		
Hole 2	30				30		
Hole 3	30				30		
Hole 4	22:49	25:00	26:30	26:50	26:40		
Hole 5	10:40	10:50	11:43		11		

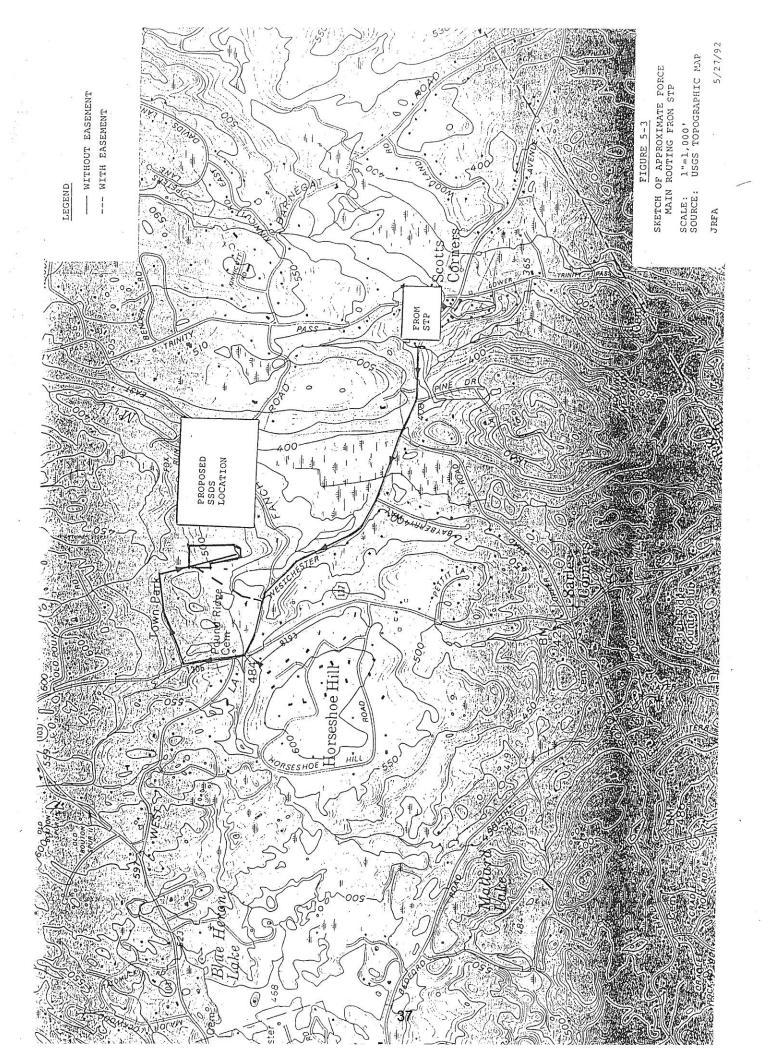
Based on the preliminary soil data, the Town parcel appears to be suitable for a SSDS location. It should be noted that this is data typically collected during SSDS

tests for a single dwelling unit. As such it only provides preliminary information on the suitability of this site for subsurface discharge of the flows estimated from Scotts Corners. Detailed analysis of soils, hydrogeology and permeability are necessary to properly evaluate this site. In the absence of suitable base maps, it is estimated that approximately nine thousand feet of force main will be required from the STP to the SSDS. This force main will carry treated effluent only. Part of this cost is offset since there is no cost to be borne for the acquisition of this parcel for SSDS.

Utilization of this site will require a treated effluent pump station at the plant location.

Routing the force main along Westchester Avenue via the Town park to the SSDS site results in a 9,000 (\pm) foot run. Alternatively the Town may secure an easement as shown in the map with a resulting run of 6,300 \pm feet (see Figure 5-3).

Treatment Plant Location. All three sites discussed were proposed primarily as SSDS sites. Along with one other untested site in Scotts Corners, the Berman and Quade parcels could be suitable for locating the STP. The Town parcel could be suitable for both the STP and the SSDS. If the plant were located in Scotts Corners, the force main to the proposed SSDS location would carry highly



treated effluent instead of raw waste. A comparison of these two options is depicted in Table 5-2.

Table 5-2

Comparison of Pumping Raw Waste vs. Highly Treated Effluent

Raw Waste

- Requires pretreatment in the form of comminution or grinding.
- Pretreatment will require some type of additional odor control.
- Requires separate Supplementary/Backup Power source.
- Requires minimum 4-inch diameter pipe.
- Pumps used are low efficiency.

Treated Effluent

- No additional treatment necessary.
- No additional odor control required.
- Uses STP Supplementary/Backup Power.
- Will most probably require smaller diameter pipe.
- Can use high efficiency pumps.

The advantages of pumping highly treated effluent are readily evident in this comparison. It is recommended that the STP be located in the Scotts Corners area.

6.0 Estimated Project Cost

6.1 Estimated Capital Costs

Capital cost estimates for the wastewater management facilities are based on the conceptual design, recent estimates from manufacturers and vendors, and prices for similar work. These estimates are subject to revision during the Facilities Report and the design phase.

The estimated 1992 construction costs for the plant and collection system are depicted on Table 6-1. It should be

noted that the cost of the land for the STP is NOT included.

Table 6-1
Estimated 1992 Construction Cost

<u>Item</u> ·			Cost
Site Work Site Preparation Earth Work Roads/Drainage		\$	48,000
Collection System Gravity Sewers Force Main & Pump Sta	ation	\$	450,000
Wastewater Treatment Facil Treatment Plant & Eff Structures Electrical HVAC		\$	360,000
Subsurface Disposal System	n	\$	400,000
S	Subtotal	\$1,	258,000
2	25% Contingency	\$	315,000
T	otal	\$1,	570,000

6.2 Estimated Annualized Capital Costs

At present, the New York State Revolving Fund interest rate is approximately five percent (5%). It is assumed that the rate will rise between the submission of this report and final SRF approval of the project. A six percent (6%) loan rate is therefore assumed.

Table 6-2 summarizes the annualized capital costs and the parameters observed to determine them.

Table 6-2

Estimated Annualized Capital Cost & Parameters

Costs

Total Estimated Capital Cost

\$1,570,000

Annualized Capital Cost

\$ 137,000

Parameters

Eligibility

100 Percent of Proposed Facilities

Interest Rate 6.0 Percent

Loan Term

20 Years

6.3 Estimated Annual Operation and Maintenance Costs

In addition to the capital cost of construction, the District will incur additional costs for operation and maintenance. These costs are listed in Table 6-3.

Table 6-3

Estimated Annual O&M Costs

Electric			\$26,000
Labor		•	\$10,000
Maintenan	ce		\$ 1,500
	TOTAL		\$37,500

6.4 Estimated Total Annual Costs

Estimated total annual costs to the Scotts Corners Wastewater District are summarized in Table 6-4.

Table 6-4

Estimate Total Annual Costs Under NYSDEC Loan Program

Annualized	Annual	Total
Capital Cost	O&M Cost	Annual Cost
\$137,000	\$37,500	\$174,500
4137,000	437,300	Ψ1/4,500

6.5 Cost Allocation Alternatives

The total annual costs presented above are an estimate, based on the application of an assumed SRF interest rate. These costs may be allocated among those who benefit in several ways.

- 6.5.1 Scotts Corners District Only. This alternative provides a single tier allocation among the users in the district.

 The entire annual cost is borne by the Scotts Corners district property owners. It may be allocated based on assessed property value, metered water use or pro-rating.
- 6.5.2 Town Wide Allocation. The Scotts Corners area, represents the major commercial center in the Town of Pound Ridge. Hence, one could reasonably conclude that the entire Town would benefit from maintaining the area in a viable condition. Using this rationale, either a single or double tier system may be considered.
- 6.5.2.1 <u>Single Tier Allocation</u>. This alternative provides for allocation of the entire capital and operating cost to the property owners on a town wide basis. It may be allocated

based on a flat fee, assessed property value or other acceptable formula.

6.5.2.2 <u>Double Tier Allocation</u>. This alternative provides for allocation of the capital cost only to the property owners on a town wide basis. Those property owners served by the system would be allocated a second tier of payment to cover the O&M costs. This system may be allocated by flat fee, assessed property value, metered water use or other acceptable formula or combination of formulas.

Therefore, although double tier allocation is feasible, the Town might consider continuing to pursue available grants and other financing sources that would minimize the cost to the taxpayer.

- Alternative Financing Sources. There are several additional sources of financing at the State and Federal levels. These additional sources typically apply to municipalities experiencing economic hardship. Basic qualifications for each are discussed below.
- 6.6.1 New York State Revolving Fund (SRF). In addition to their loan via sale of bonds, the SRF offers direct loans to two thirds or one third of the market rate, and also at zero percent interest. The Environmental Facilities Corporation, administrators of the SRF, assesses municipal

need based on individual application. The specific form is included as Appendix G.

- 6.6.2 <u>Farmers Home Administration (FMHA)</u>. FMHA offers loans and grants to poor rural communities. Telephone conversations between JRFA and Mr. Roy Wittich highlight the following requirements.
 - Loans are offered to communities that are not qualified under any other program (i.e., SRF) at comparable interest rates.
 - Grants are available to communities where the mean income is below the State poverty level.

The FMHA Application Form is included as Appendix H.

- 6.6.3 Housing and Urban Development (HUD). HUD administers a Small Cities Community Development Block Grant Program. Telephone conversations between JRFA and Robert Guadagno indicate that fifty percent or more of the community population must consist of low to moderate income persons in order to quality for the program. The actual value of low-moderate income varies by County within the State. The HUD Application Form is included as Appendix I.
- New York State Revolving Fund Low Interest Loan Milestones

 JRFA contacted Mr. Michael Sheehan, Construction

 Management Division, NYSDEC. The following sequence of

 milestones is in accordance with his recommendations.

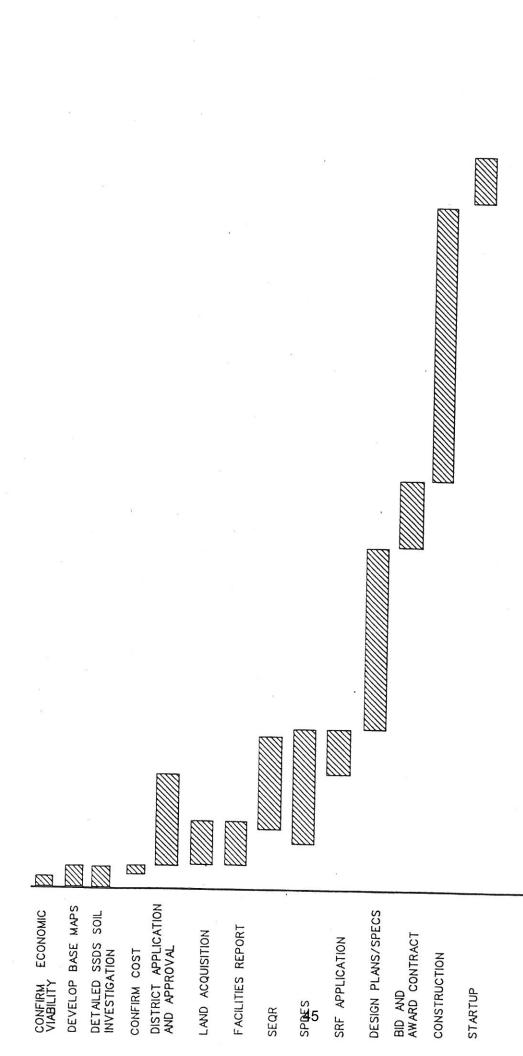
- 6.7.1 Establish Municipal Wastewater Treatment District.
- 6.7.2 Collect Water Quality data from Stamford Water Company.
- 6.7.3 Complete Facility/Engineering Report.
- 6.7.4 Meet with DEC for scoring of application.
- 6.7.5 See Appendix D for SRF Requirements.

7.0 Implementation Task Schedule

Figure 7-1 provides a graphic explanation of the various major tasks and estimated times associated with their completion.

8.0 Audit and Control Requirements

The New York State Board of Audit and Control reviews all applications for establishment of new sewer districts. Application must be made within ten days of adopting a resolution approving the establishment of the district. If the Town proposes to finance all or part of the cost it must prove that the formation of the district serves the public interest and that the cost does not pose an undue burden on the taxpayers. As recently revised, Part 85, Chapter III, 2 NYCRR outlines the application process in detail and is included in Appendix C.



SCHEDULE FIGURE IMPLEMENTATION -

30

28

18 20 22

7

TIME IN MONTHS

Malcolm Pirnie Dec. 2, 1998 Pound Ridge Treated Wastewater Effluent Well Injection Letter to Clay Fowler PR Planning Board Summary

MP provides project approach and estimated rage of costs to prepare a permit application in support of deep well injection of wastewater for the Pound Ridge commercial area.

- Needs USEPA permit and NYS DEC has "no regulatory mechanism for such permits".
- EPA's primary concern is that the wastewater effluent will be injected into a potable water aqueduct.
- There are no such wells in Westchester (1998).
- Would have to inject into crystalline bedrock at 30,000 gpd (20.8 gpm).
- There are technical issues with keeping the well open, and need sufficient fractures in the rock
- Proposal includes breakdown of costs totaling \$100,000



MALCOLM PIRNIE, INC. ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

December 2, 1998

Mr. Clay Fowler Planning Board Chairman Town House 179 Westchester Avenue Pound Ridge, NY 10576

Re: Pound Ridge Treated Wastewater Effluent Well Injection

Project Approach and Estimated Range of Costs

Dear Mr. Fowler:

Malcolm Pirnie, Inc. is pleased to provide you with this project approach and estimated range of costs to prepare a permit application in support of deep well injection of wastewater for the Pound Ridge commercial area. The injection of the treated effluent from the commercial area will require a Class V Underground Injection Control (UIC) permit administered by the United States Environmental Protection Agency (USEPA). Additionally, the State Pollutant Discharge Elimination System (SPDES) permit, administered by the New York State Department of Environmental Conservation (NYSDEC), would have to be modified, with the effluent limits being consistent with GA (groundwater) effluent standards.

1. BACKGROUND INFORMATION

We have had numerous discussions with Joe Marcogliese of the NYSDEC regarding effluent injection for similar projects. Mr. Marcogliese has stated that the NYSDEC would follow the lead of the USEPA regarding the permitting of the injection well, as the NYSDEC has no regulatory mechanism for such permits. Mr. Marcogliese has stated that the NYSDEC would modify an existing SPDES permit pending the issuance of a UIC permit by the USEPA.

We have also had numerous past discussions with Carol Lynes of the USEPA. Carol Lynes is in charge of administering UIC permits within the Westchester County area. The EPA's primary concern is that the wastewater effluent will be injected into a potable aquifer. Ms. Lynes has previously stated that the USEPA is in the process of modifying the UIC application requirements to include a specific classification for domestic effluent injection wells. While the "official" modified application requirements are not yet available, we have discussed what those additional requirements will be, and the USEPA has stated that they will send us written confirmation of the additional requirements. Ms. Lynes stated that because there are no existing effluent injection projects in Westchester County, the information and procedures will be reviewed carefully. Overall, the USEPA is not opposed



December 2, 1998 Page 2

to the concept of injecting wastewater as a disposal method. Some of the additional requirements mentioned by Ms. Lynes include maximum injection pressure calculations, geophysical logs, preliminary injection well design, breakthrough analyses, and monitoring and inspection plans.

2. TECHNICAL DISCUSSION

As with any deep well injection system, the hydraulic characteristics of the receiving geologic formation and the integrity of the overlying formations are the determining factors in evaluating the feasibility and ultimate success of the system. The geology in the vicinity of Pound Ridge, and northern Westchester County as a whole, typically consists of thin overburden deposits (predominantly glacial till) underlain by crystalline bedrock. The overburden is not of sufficient thickness or permeability to allow for the injection of wastewater at a rate of 30,000 gpd (equivalent to 20.8 gpm). Therefore, the receiving geologic unit will be in the underlying bedrock.

Groundwater occurs in bedrock in fractures and fissures. The degree to which groundwater can be transmitted through bedrock is dependent on the number and size of the fractures and the extent and interconnection of the fracture system. Therefore, it is necessary to locate a fracture system of sufficient size and areal extent to be able to effectively receive the injected wastewater.

As an injection medium, bedrock can be favorable over unconsolidated deposits because the borehole is open: in other words, there is no well screen or gravel pack. A common problem with injection systems is the fouling of well screens due to bacterial encrustation, chemical precipitation, high entrance velocities (due to the size of the screen openings), gas entrainment and the clogging of screens by particulate matter. These problems can be reduced with injection wells in bedrock, depending on the size of the fracture openings. Chemical precipitation may still occur along fracture surfaces, depending on the chemical and thermal characteristics of the entrance water compared to the receiving groundwater.

Because identifying prolific fractures is critical to the success of the deep well injection system, we would propose to conduct a geophysical investigation of the site utilizing the Very Low Frequency (VLF) system. Using the VLF will help optimize the siting of promising injection well locations. The VLF system receives frequencies that are transmitted through the earth's mantle (predominantly signals generated by the U.S. Navy). Depending on the strength and orientation of the received signals, more favorable fractures can be identified and differentiated from less favorable fractures. This will reduce the overall cost of the system because the VLF reduces the amount of "guess work" involved in siting a well. Furthermore, identifying and mapping site fractures will assist in determining recharge areas and potential hydraulic connection between the injection system and surrounding withdrawal systems. This information is required for the UIC permit application.



December 2, 1998 Page 3

3. PROJECT APPROACH AND ESTIMATED COST RANGES

In support of the UIC permit application data requirements, and determining the actual feasibility of deep well injection of wastewater, we would propose to complete the following tasks.

A. Review Regional Data

We will review existing, available data on the hydraulic characteristics of the region, including recharge/discharge areas, depth to groundwater, and identify other groundwater users surrounding the site, including distance to the site, and the type and depth of each well. This information is needed to develop a framework of conditions and uses around the site. The estimated range of costs to complete this task is \$2,500 to \$3,500.

B. <u>Site Visit/Geologic Mapping</u>

We will conduct a site visit to map the geologic structure (strike and dip) of the bedrock surface expressions on outcrops (if they exist) and conduct a fracture trace analysis. We will then prepare a map showing the orientation of geologic features on the site relative to the surrounding area. The estimated cost range to complete this task is \$2,000 to \$3,000.

C. Geophysical Survey

We will conduct a geophysical survey using the VLF instrument to locate water-bearing fractures on the site. We will then interpret the data and, in conjunction with the field mapping, we will map fracture orientation and fracture depths on the site. This information will be used to locate injection wells and assist in the hydraulic isolation interpretation between the injection points and withdrawal points. The estimated cost range to complete this task is \$5,500 to \$8,500, depending on the size of the survey area.

D. <u>Well Installation</u>

Based upon the data obtained in Tasks A through D above, we will make an assessment as to the viability of an injection well at the site. If the geologic structure is not favorable for injection, no additional work would be completed. If the geology is favorable, we will locate an injection well site and drill an injection test well to a maximum depth of 600 feet, upon consultation with the Town. The injection test well will be designed to transmit water at a discrete depth interval different than that of surrounding withdrawal wells. A maximum of three monitoring wells (total footage of 900 feet) will be installed at different depth intervals to monitor the



December 2, 1998 Page 4

mounding effect of the injected water during the injection pilot test (see Task E below) as required by the UIC permit application. The estimated Malcolm Pirnie labor cost range to complete this task is \$10,000 to \$15,000. The estimated drilling subcontractor cost range is \$15,000 to \$20,000 (depending on the actual depths drilled).

E. <u>Injection Well Pilot Test</u>

Upon completion of the well installation, we will conduct an injection well pilot test. The maximum injection rate will be determined by first completing a step-test, whereby the injection rate is gradually increased until the back pressure is stabilized. After the step-test is completed, the pilot injection test will be run at the optimal rate for seven days. A period of seven days is necessary to allow for stabilization of the induced hydraulic mound and pressures to determine the area of influence created by the injection. We would need a supply of water for the injection test.

During the injection test, we will monitor water levels in the newly installed wells and up to five off-site wells continuously (24 hours a day) for the seven days. Additional information to be gathered will include injection flow rate, injection pressure, back pressure, water temperature and pH. Upon completion of the injection test, we will analyze and interpret the data and make a determination of the viability of the geologic formation to assimilate the injected water. This analysis will include a geochemical compatibility analysis of the injected wastewater and the receiving groundwater. The estimated Malcolm Pirnie labor cost range to complete this task is \$25,000 to \$35,000. The estimated subcontractor cost range is \$13,000 to \$18,000.

F. Injection Well Preliminary Design/Monitoring Program

We will prepare a preliminary design of the injection well and the monitoring program to be put a place once the UIC permit is issued. The monitoring program will be a very important component of our permit application package, as the USEPA is concerned about breakthrough and subsequent monitoring activities. The preliminary design will include injection pressure calculations, a schematic design and piping diagram. The estimated cost range to complete this task is \$10,000 to \$15,000.

G. Engineering Report and Permit Application

We will prepare a detailed engineering report in support of the UIC permit application, and complete the UIC permit application for submission to the USEPA. The estimate cost range to complete this task is \$8,000 to \$10,000.



December 2, 1998 Page 5

As we discussed on the telephone, the UIC permit application is a complicated process, particularly since the USEPA has little experience with domestic wastewater injection. The estimated cost ranges presented in this letter account for a heightened level of effort to provide the USEPA with technically sound and scientifically valid data in support of the UIC permit application. We would be happy to discuss our overall approach with you at your request.

We appreciate the opportunity to provide you with this information and look forward to assisting the Town of Pound Ridge on this project.

Please give me a call at 201-529-4700 if you have any questions.

Very truly yours,

MALCOLM PIRNIE, INC.

Michael van der Heijden, CGWP

Associate

P:\3541001\PROJAPPR.LTR

Malcolm Pirnie Sept. 3, 1999 Wastewater Disposal Evaluation Letter to Clay Fowler PR Planning Board Summary

MP was retained to evaluate and provide alternatives separate sewage treatment systems (ssts) in Scotts Corners (SC), preliminary findings.

- Interviews determined that Block 9454 (SC Market), Lot 6 (Moonstruck) and Lot 7 (Albano electric) were experiencing recurring failures
- Lots 13, 14, 15 have cesspools with issues
- Summary of findings is in Table 1
- An estimate of water usage was made using data form the PR Business Association (Rosalie Roth) divided by the area of the buildings for a rate of 0.142 gallons/square foot / day. This was applied to properties that did not have water usage rates. Adding data from WCDH resulted in a water usage rate of 27,000 gpd. Only present usage included.
- Solutions proposed are:
 - Combined system for all users
 - Upgrading selected ssts
- Combined System
 - Wastewater Treatment Plant Previous study determined that it is a viable engineering solution; but the capital and operating costs render it not economically viable.
 - On-site septic and pump to "Ball Fields". Use ball fields as leach fields, versus disposal for treated effluent, would seem viable. Need septic tank maintenance. Would also have to address ball field underdrains.
 - On-site Treatment and Disposal, need 2.5 acres. Would have to negotiate waivers with DOH for reserve capacity or somehow spread the loading rate over 24 hours rather than business hours. Would result in restrictions to future development and might result in deed restrictions. Could truck effluent off site.
- Upgrade selected ssts's.
 - Upgrade selected ssts, for example Chubby's Lot 64, or Dinardo's Lot 60
 - o Needs more study.
- See table 1 for existing Conditions Assessment



MALCOLM PIRNIE, INC.

INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS & CONSULTANTS

September 3, 1999

DRAFT

Mr. Clay Fowler, Chairman Pound Ridge Planning Board Town House 179 Westchester Avenue Pound Ridge, New York 1576-1743

Re: Scotts Corners, Pound Ridge, New York Wastewater Disposal Evaluation

Dear Mr. Fowler:

Malcolm Pirnie, Inc. has been retained to evaluate and provide alternatives to the existing separate sewage treatment systems (SSTS) in Scotts Corners. It is our understanding that some of the existing SSTS in the Scotts Corners commercial business area have had reoccurring problems, and that previous studies have been conducted regarding sewage treatment alternatives in an effort to remedy these problems. The following paragraphs describe our preliminary findings and recommendations of this study.

A field visit was conducted to assess existing separate sewage treatment systems (SSTS) for individual property lots in the Scotts Corner commercial business area (Figure 1) on August 11, 1999. The field assessment included visual observations of the SSTS and their hydrologic setting and interviews with occupants of each building to determine previous problems with their systems. Data was also collected from the Westchester County Health Department and the Pound Ridge Building Department on the existing SSTS designs and capacities. Water usage rates were obtained from Rosalie Roth (a member of the Pound Ridge Business Association) and by incorporating an estimated water usage rate that was determined from this data. The square footage of each building was obtained from the Scotts Corners Planning Study written by Frederick P. Clark Associates in October 1990. Some businesses in Scotts Corners date back to the late 1930's, making it difficult to find information on their SSTS at this time.

Interviews with the occupants of each building revealed that the SSTS that serve Scotts Corners Market, Moonstruck and Albano Electric (Block 9454, Lots 6 and 7 respectively)



Mr. Clay Fowler, Chairman Town House

September 3, 1999 Page 2

were the only businesses that appear to experience recurring failures. Previous failures of these systems may be related to stormwater runoff patterns, a high groundwater table, poor soil conditions or the proximity to shallow bedrock. For example, the location of the absorption trenches for Scotts Corners Market are located on top of a hill adjacent to the existing parking lot. Rock outcroppings visible in the area may indicate that the shallow underlying rock could be creating a type of "bathtub" condition where stormwater runoff percolates through the ground and accumulates on top of the rock surface. The Moonstruck and Albano systems are downhill of a wooded area that directs stormwater runoff into the absorption field area. The true cause for system failures can be better understood once subsurface investigations are conducted.

The presence of a cesspool that serves the Country Shopper, Antiques and Tools and an adjacent lot (Block 9454, Lots 13, 14 and 15 respectively) was reported during the site visit. The cesspool may be in poor physical condition and have insufficient capacity based on the age of the system. Building occupants stated that the system could be in excess of 100 years old. Further investigations regarding the condition and capacity of the cesspool should be conducted as the project approaches more detailed stages.

Access hatches with holes on the lid were also noticed in various locations during the site visit as shown on Table 1. Therefore, runoff infiltrates into the pumping pit or septic tank increasing the volume of flow into the system. The existing hatches should be replaced with new watertight hatches to minimize infiltration. This condition should be also be addressed as the project approaches more detailed stages.

Obtaining water usage rates is a critical parameter in designing the size of new or upgrading existing SSTS. An estimated water usage rate was determined by taking the sum of the water usage rates provided by Rosalie Roth divided by the sum of the square footage of the respective buildings. The resulting water usage rate factor of 0.142 gallons/square foot/day was utilized for estimating water usage rates at properties where Rosalie Roth did not provide data. Multiplying this factor by the square footage of an existing building yields an estimated water usage rate for that building. By combining data from Rosalie Roth and the Westchester County Department of Health the estimated water usage rate for the Scotts Corners commercial district is approximately 27,000 gallons per day (Table 1). It should be noted that this water usage rate estimate only includes existing buildings and does not factor in future expansion of existing stores or the construction of new structures. Future building expansion and the increase in water usage must be considered as the project approaches more detailed stages.

Based on the current estimated water usage rate of 27,000 gpd for the entire commercial district, a variety of possible solutions are available. Potential solutions have been



Mr. Clay Fowler, Chairman Town House

September 3, 1999 Page 3

subdivided into two general scenarios: 1.) using a combined system for all commercial uses or 2.) upgrading selected SSTS and continue using individual systems.

1. Combined System

- a. <u>Wastewater Treatment Plant</u>: A study regarding the viability of a WWTP with a subsurface effluent discharge to serve the commercial area has been previously completed. While a WWTP is a viable engineering solution, both initial capital and operation and maintenance costs (O&M) make this option economically not viable.
- b. On-site Septic and Pump Station to Ball Fields: The previously completed WWTP study proposed an on-site WWTP with the effluent being discharged at the ball fields located approximately 1.5 miles to the north. If the ball fields have sufficient area and capacity (which they appear to have), they could be used as a leach field, rather than disposal fields for treated effluent. This would involve having an on-site septic tank and a pump station to convey wastewater to leach fields located at the ball fields. This option would result in lower capital costs (no WWTP) and lower O&M costs. The only O&M would be associated with periodic septic tank cleaning and pump station maintenance. It should be noted that existing drainage patterns would have to be investigated during the next study phase. For instance, underdrains for the ballfield would have to be removed if they were discovered during further investigations.
- c. On-Site Treatment and Disposal: There are several possible solutions under this option that involve a combination of reserve capacity reduction and flow equalization. First, based on a flow of approximately 27,000 gpd and a percolation rate of between 30 and 45 minutes, a leach field area of approximately 2.5 acres would be required. The two acres does account for 100 percent reserved capacity as required by the Westchester County DOH. It may be possible to negotiate with the DOH a waiver for the reserve capacity. The downside to this option is a likely deed restriction on types of commercial use and expansion.

Second, if the flow rate were to be equalized, whereby the loading rate to the leach field would be dosed over a 24 hour period rather than normal working hours, the leach field size may be reduced by one-half. Incorporating equalization could reduce the required leach field area to approximately 1.5 acres. Combining reserve capacity reduction and flow equalization could reduce the leach field area to approximately 0.75 acres. Obviously, reducing reserve capacity is more of a business, as opposed to an engineering, decision. The balance between the need to occupy existing commercial space and the need for future expansion would have to be taken into account under this design scenario.



Mr. Clay Fowler, Chairman Town House

September 3, 1999 Page 4

Flows above the 27,000 gpd design flow of the SSTS would require an additional method of sewage disposal. Trucking the sewage off-site is the most economical method (approximately \$500 per 1000 gallon truck tank full) of sewage disposal for the flows above what the new system has been designed for.

2. Upgrading Selected SSTS

A second scenario is to construct a smaller system to treat wastewater from only a particular area or from existing SSTSs that experience recurring failures. Possible locations for this "pocket" treatment system could include the overgrown area behind Chubby's Hardware (Block 9320, Lot 64) or the parking lot behind what is known as DiNardo's (Block 9320, Lot 60). Existing absorption trenches and leaching pits would have to be removed from any area where a new system was installed. It should be noted that a majority of the existing SSTS are currently operating without problems. Most commercial properties are land-locked by other buildings or natural features such as bedrock outcroppings or wetlands, preventing significant expansion. Some properties currently want to expand, such as the Scotts Corners Market, but are not able to because of the lack of treatment capacity.

It should be noted that these potential solutions are based on limited site-specific subsurface characterization and that other critical issues may be encountered when detailed soil investigations are conducted. We recommend that additional investigations be performed, including soil sampling and percolation tests, prior to proceeding with design and construction of a new treatment system.

If you have any questions please call me at 201-529-4700.

Very truly yours,

MALCOLM PIRNIE, INC.

Michael van der Heijden, CGWP

Associate

c: D. Berman

K. Matscherz, MPI

D. Sweeten, MPI

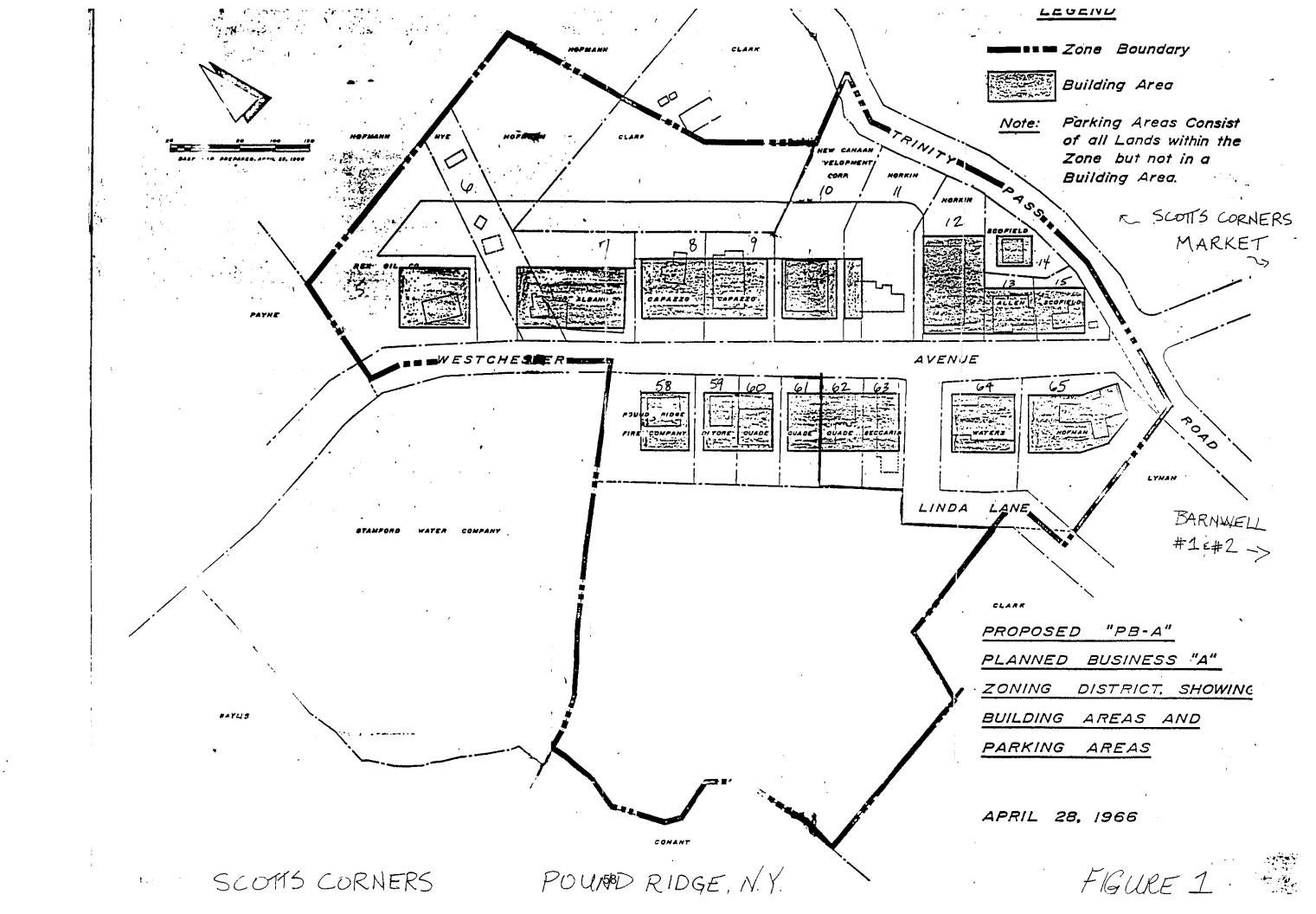
DRAFT

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TOWN OF POUND RIDGE SCOTTS CORNERS WASTEWATER TREATMENT STUDY **EXISTING CONDITIONS ASSESSMENT**

STORE NAME	OWNER	BLOCK	LOT	LAND USE	WATER USAGE (gpd)	BLDG. SIZE (sf)	SEPTIC TANK CAPACITY (gallons)	OVERFLOW TANK CAPACITY (gallons)	GREASE TRAP CAPACITY (gallons)	METHOD OF WASTEWATER CONVEYANCE	METHOD OF SEWAGE TREATMENT DISPOSAL	INFLOW POTENTIAL NOTED
THE DELI	DALE METZGER	9320	59	COMMERCIAL	575	4,050	SEE NOTE 5)	SEE NOTE 5)	NONE	GRAVITY FLOW	LEACHING PITS	†
Di NARDO'S	QUADE & ROTH INC.	9320	60	COMMERCIAL/RESIDENTIAL	4425 ⁴⁾	4,050	3,000	SIPHON TANK	750	GRAVITY FLOW	- 6.5' DIA. x 6' DEEP SEEPAGE PITS & 8 - 6.5' DIA. x 9' DEEP SEEPAGE PITS	YES
FASHION COIFFURES	CLEMONS TRUST	9320	61	COMMERCIAL/RESIDENTIAL	2700 ⁴⁾	4,050	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	
P.R. CLEANERS	DeGRAFF TRUST	9320	62	COMMERCIAL/RESIDENTIAL	1000 4)	4,860	1,850	HONE	NONE	GRAVITY FLOW	660 L.F. ABSORPTION TRENCHES	NO
P.A. TRAVEL	TRINITY LANE LTD.	9320	63	COMMERCIAL	1000 ⁴⁾	4,050	1,000	NONE	NONE	GRAVITY FLOW	134 L.F. ABSORPTION TRENCHES	YES
CHUBBY'S	JOE DIPIETRO	9320	64	COMMERCIAL/RESIDENTIAL	1,035	7,290	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	YES
P.R. SHELL	SHELL OIL CO.	9320	65	COMMERCIAL	1,440	10,140	600	NONE	NONE	SUBMERSIBLE PUMP	TWO LEACHING PITS	NO
REX REALTY	NORMAN	9454	5	COMMERCIAL	1,150	8,100	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	NO
MOONSTRUCK	LOUIS MEDICO	9454	6	COMMERCIAL	820 ⁴⁾	3,103	1,200	1,200	1,000	550 GAL PUMP PIT W/ SUBMERSIBLE PUMP	1	NO
ALBANO ELECTRIC	ALBANO REALTY	9454	7	COMMERCIAL	1,371	9,657	900	1,200	NONE	550 GAL. PUMP PIT W/ SUBMERSIBLE PUMP	200 L.F. ABSORPTION TRENCHES	NO
HOULIHAN'S	BARING-GOLD	9454	8	COMMERCIAL	1,035	7,290	1,000	NONE	NONE	GRAVITY FLOW	132 L.F. ABSORPTION TRENCHES	NO
TEXACO	CAPAZZO	9454	9	COMMERCIAL	1,035	7,290	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	NO
FLEET BANK	ATEM ENTERPRISES	9454	10	COMMERCIAL	750 ⁴⁾	6,480	1,200	1,000	NONE	550 GAL. PUMP PIT W/ SUBMERSIBLE PUMP	· · · · · · · · · · · · · · · · · · ·	NO
WINE CONNECTION	GATEWAY	9454	11	COMMERCIAL	855 ⁴⁾	2,140	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	NO
ONE HR. PHOTO	VAZANNA	9454	12	COMMERCIAL/RESIDENTIAL	1,725	12,150	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	SEE NOTE 5)	YES
COUNTRY SHOPPER		9454	13	COMMERCIAL	605	4,260	CESSPOOL	NONE	NONE	GRAVITY FLOW		YES
VACANT LOT		9454	14	COMMERCIAL	284	2,000	CESSPOOL	NONE	NONE	GRAVITY FLOW	SEE NOTE 5) SEE NOTE 5)	NO
ANTIQUES AND TOOLS		9454	15	COMMERCIAL/RESIDENTIAL	605	4,260	CESSPOOL	NONE	NONE	GRAVITY FLOW	SEE NOTE 5)	NO
COTTS CORNERS MARKET	RPS REALTY TRUST	9456	PB-B/1.9	COMMERCIAL	1800 ⁴⁾	58,225	2.700	NONE		2500 GAL. PUMP PIT W/ SUBMERSIBLE PUMP	1,049 L.F. ABSORPTION TRENCHES	NO
BARNWELL #1	DAVID BERMAN	9455	PB-B/25	COMMERCIAL	800 4)	10,318	2.000	NONE	NONE	GRAVITY FLOW		NO
BARNWELL #2	DAVID BERMAN	9455	PB-B/24	COMMERCIAL	800 ⁴⁾	10,070				GIIAVII I EOIV	LEACHING GALLERY (40'L x 5'W x 6'H)	NO
BLDG. #1 & #2	DAVID BERMAN	9455	PB-B/24	COMMERCIAL/RESIDENTIAL		·	1,000	1,000	NONE	GRAVITY FLOW	ABSORPTION TRENCHES	404
BLDG. #3	DAVID BERMAN	9455	PB-B/24	COMMERCIAL/RESIDENTIAL			SEE NOTE 5)	NONE	NONE	GRAVITY FLOW		NO
BLDG, #4	DAVID BERMAN	9455	PB-B/24	COMMERCIAL			1.000	1,000	NONE	GRAVITY FLOW	TWO 50' LONG x 3' WIDE ABSORPTION TRENCHES	NO
BEAUTY SPA	CONO ENTERPRISES, LTD	9456	5A	COMMERCIAL	1000 4)	4.257	1,000	1.000			ABSORPTION TRENCHES 200 L.F. ABSORPTION TRENCHES & 3 - 8' DIA. x.5' DEEP SEEPAGE PITS	NO
				TOTAL FLOW (gpd) =	26,810			1,444	110112	DOS SALT OWE FIT WI SOUNERSIBLE PUNIF	200 L.F. ADSUMPTION THENCHES & 3 - 8' DIA, x 5' DEEP SEEPAGE PITS	NO

1) SCOTTS CORNERS MARKET INCLUDES THE POST OFFICE NEXT DOOR
2) BARNWELL #2 IS COMPRISED OF THE 4 BLDGS. LISTED BELOW.
3) UNDER CURRENT ZONING REGS. THIS BLDG. IS OVER
THE MAXIMUM DEVELOPMENT POTENTIAL.
4) INFORMATION PROVIDED BY ROSALIE ROTH.
5) INFORMATION IS NOT READILY AVAILABLE AT THIS TIME.



June 29, 2000
Malcolm Pirnie to Malcom Pirnie
Scotts Cornet Test Pits and Percolation Test
Summary of the test, but no results.
One page description – Lots 58 to 65
Photos

INTEROFFICE CORRESPONDENCE

To:

M. van der Heijden, NNJ

Date: June 29, 2000

Copy:

Project Files, 3541003

M. Morgante, WHI

From:

John Ifkovits, NNJ

Re:

Scotts Corner Test Pits and Percolation Tests

On June 22, 2000, I oversaw the excavation of 3 deep test pits and conducted 4 percolation tests at Scotts Corner, Pound Ridge New York. Present for the test pits were Mike Morgante of MPI WHI, ED Deleney of The Westchester County Department of Health (WCDOH), and Marion Papas, WCDOH. AC&S Excavating of Pound Ridge supplied a Cat 426B backhoe and operator for the test pits.

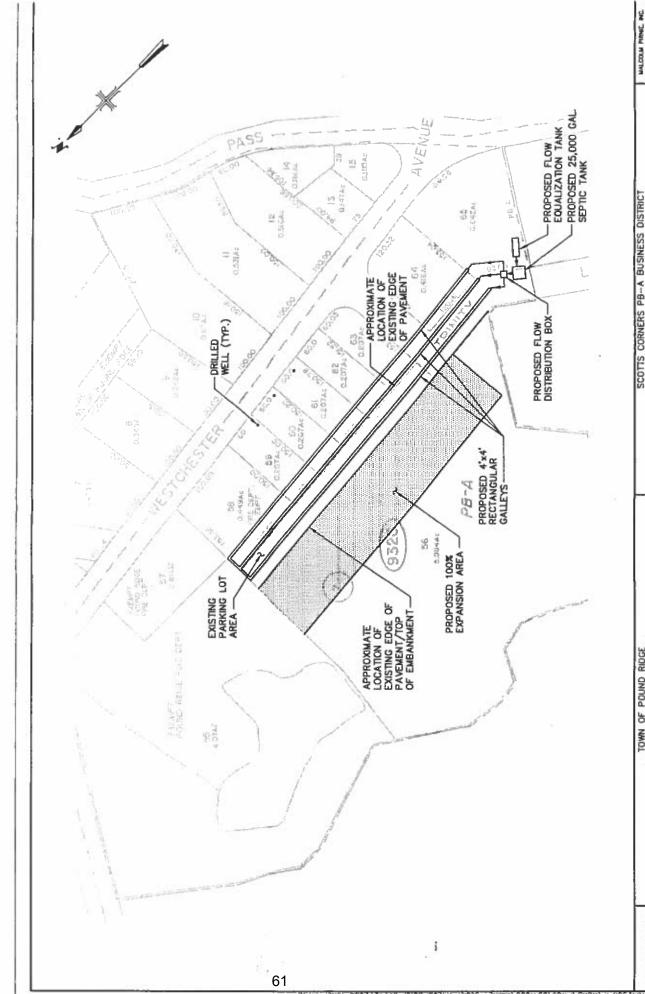
Mike departed the site during the excavation of the second test pit. Ed was content with three test pits. Additional test pits were planned for the area of the parking lot near the firehouse however Ed said they would not be necessary because the WCDOH has extensive records of the soils in this location. Underground utilities and the existing galleys were also located in this area. Ed and Marion departed the site after the third test pit. Test pit details are included on the attached test pit logs.

Four locations were chosen for percolation tests. There was one percolation test associated with each test pit and a fourth percolation test in the wooded lowland south east of the parking lot. The locations of the first three tests are shown on the test pit logs. Holes were dug as per requirements of WCDOH Bulletin SD-22. The percolation tests were not observed by WCDOH.

The holes were filled with water and allowed to pre-soak. The tests were run by filling the hole to a depth of ten inches and observing the time required for the water to drop three inches. The tests were run three times and are shown on their corresponding test pit logs. Percolation test P-4 filled with ground water and failed to drain.

The test pits were backfilled with the backhoe and compacted with the backhoe bucket. It will be necessary to arrange for the locations to be paved over.

jji Attachments 3541003

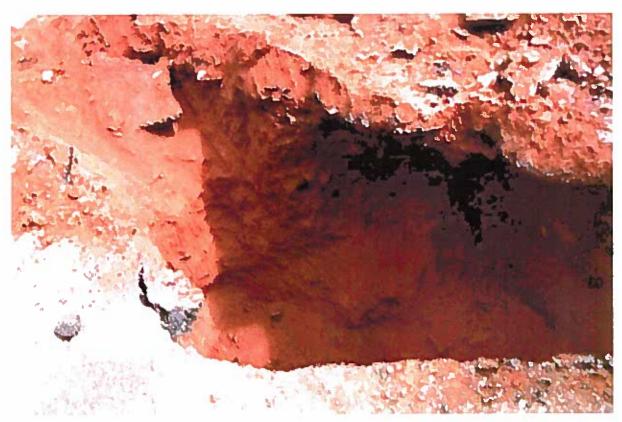


SCOTTS CORNERS PB--A BUSINESS DISTRICT PROPOSED SUBSURFACE SEWAGE TREATMENT SYSTEM PRELIMINARY SITE PLAN

JULY 2000 FIGURE 1

TOWN OF POUND RIDGE WESTCHESTER COUNTY, N.Y. SCOTTS CORNERS WASTEWATER DISPOSAL





SCOTT'S CORNER POUND RIDGE, NEW YORK

TEST PIT NO. 1

MALCOLM PIRNIE, INC.





SCOTT'S CORNER POUND RIDGE, NEW YORK

TEST PIT NO. 3

MALCOLM PIRNIE, INC.





SCOTT'S CORNER POUND RIDGE, NEW YORK

PERCULATION TEST P-1 AT TEST PIT NO. 1

MALCOLM PIRNIE, INC.

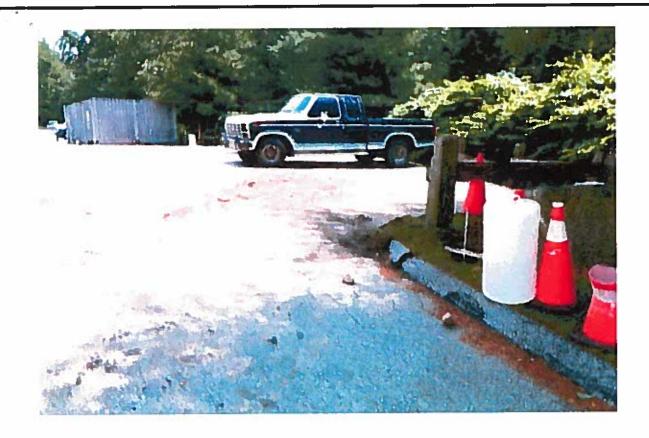




SCOTT'S CORNER POUND RIDGE, NEW YORK

PERCULATION TEST P-4

MALCOLM PIRNIE, INC.





SCOTT'S CORNER POUND RIDGE, NEW YORK

PERCULATION TEST P-2 AT TEST PIT NO. 2

MALCOLM PIRNIE, INC.





SCOTT'S CORNER POUND RIDGE, NEW YORK

PERCULATION TEST P-3 AT TEST PIT NO. 3

MALCOLM PIRNIE, INC.

July 11, 2000

Malcolm Pirnie to Clay Fowler

Scotts Corners Wastewater Treatment System

Results of test pits and percolation tests behind lots 60, 61 and 62, Block 9320 $\,$

Summary

The report seems to be proposing a new SSTS in this area.

Existing SSTS behind Lots 58 through 65

- The existing leaching pits and adsorption trenches are 190 and 180 feet form public water supply wells
- Assumptions are made in order to support the proposed SSTS in this area.
- Would need a relaxation of the separation to public water supply wells

Proposed SSTS:

- See graphic for solution
- System could treat 24,000 gpd
- Details: 1800 feet of galleys, 24 foot on center, application rate of 0.6 gallons/day/ft2 from a perc rate of 24 minutes/inch (worst case) over 14,400 ft2 = 24,000 gpd

This does not address either the present or future flows of 28,000 from the 1992 Folcetti study This solution could be used to treat wastewater from only a particular area. Future study is recommended.

INCLUDES LOGS OF TEST PITS



FILE COPY

MALCOLM PIRNIE, INC.

INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS & CONSULTANTS

July 11, 2000

DRAFT

Mr. Clay Fowler
Pound Ridge Planning Board
Town House
179 Westchester Avenue
Pound Ridge, New York 1576-1743

Re: Scotts Corners Wastewater Treatment System

Dear Mr. Fowler:

Malcolm Pirnie, Inc. conducted a subsurface investigation in the parking lot area behind lots 60, 61, & 62 of Block 9320 in the PB-A Business District as discussed in the attached interoffice correspondence. The test pits that were excavated and the percolation tests that were performed found the existing soils suitable for subsurface wastewater disposal. The following paragraphs discuss the proposed subsurface sewage treatment system (SSTS) for Scotts Corners.

Preliminary Design of a New SSTS

Existing SSTS Behind Lots 58 through 65

The existing public water supply wells and surface water are located a minimum of 100-feet away from septic tanks. The required separation distance from public water supply wells to absorption fields is 200-feet according to New York State Department of Environmental Conservation (NYSDEC) regulations. The existing leaching pits and absorption trenches are located approximately 190 and 180-feet, respectively, from the public water supply wells. In order to maximize the flow that the proposed subsurface sewage treatment system (SSTS) can accept the following is assumed:

- Existing separation distance of 100-feet between septic tanks and surface water and public water supply wells is maintained.
- Relaxation of the separation distance from the public water supply well and the proposed subsurface disposal fields to 100-feet minimum.

These requirements are subject to the review and acceptance by the Westchester County Department of Health (WCDOH) and the NYSDEC.



July 11, 2000 Page 2

Proposed SSTS

The SSTS will incorporate an influent equalization tank, a septic tank for settling and treatment and 4-foot high by 4-foot wide concrete rectangular galleys for subsurface disposal of the wastewater. It should be noted that various subsurface wastewater disposal alternatives such as leaching pits, concrete tri-galleys and rectangular galleys were investigated. There are other proprietary subsurface disposal methods that may provide more flow capacity which can be further investigated during detailed design. However, from this preliminary investigation it was determined that rectangular concrete galleys provided the greatest wastewater discharge capacity for this project.

The SSTS will be located behind lots 58 through 65 of Block 9320 as shown on Figure 1. Flow from the various businesses would be pumped to the influent equalization tank where the wastewater would be dosed to the septic tank and associated disposal fields. The total existing parking area behind lots 58 through 65 was utilized in the design of the SSTS to maximize the flow capacity. The 100% expansion area will be located southwest of the existing parking lot.

Approximately 1,800 linear feet (LF) of galleys spaced 24-feet on center can be installed in the existing parking lot area from lots 58 through 64. Each linear foot of rectangular galley corresponds to 8 square feet (ft²) of subsurface disposal area. A wastewater application rate of 0.6 gallons/day/ft² was determined from a percolation rate of 24 minutes/inch (worst case) based on field tests. Using this application rate and a subsurface disposal area of 14,400 ft², the maximum capacity of the subsurface disposal fields based on the assumptions that have been made is approximately 24,000 gallons/day (gpd).

Existing Wastewater Flows in the PB-A District

The total flow from the existing PB-A district is approximately 27,000 as found in Table 1 of the letter dated September 3, 1999 that was sent to you. The projected flow in the year 2012 based on the Feasibility Study prepared by J. Robert Folchetti & Associates in May 1992 is approximately 28,000 gpd.

Conclusions/Recommendations

The 24,000 gpd capacity of the proposed SSTS is based on preliminary information and may increase during the detailed design stage. However, the proposed system may not be capable of current and future treatment of the total flow from the PB-A business district. Furthermore, if the assumptions that have been made are not determined feasible upon review by the regulatory agencies, a similar system with less capacity can still be



July 11, 2000 Page 3

constructed in the same location. It would therefore be recommended to treat wastewater from only a particular area and from existing SSTS that experience recurring failures as previously discussed in Scenario No. 2 in the letter dated September 3, 1999. This proposed SSTS could accept flow from the previously identified businesses that have recurring failures of existing SSTS and the businesses from lots 58 through 65 of block 9320.

Upon the review and acceptance of the preliminary design by the regulatory agencies, the next phase of the project would require the following:

- A detailed investigation of existing and projected flows and current and future building use to accurately determine the design flow for the proposed SSTS.
- A site survey to establish the boundaries of the entire area from lots 58 through 65 in order to commence the detailed design of the subsurface disposal system.

If you have any questions or concerns, please do not hesitate to call me at 914-641-2658.

Very truly yours,

MALCOLM PIRNIE, INC.

Michael van der Heijden

Associate

mam

Enclosures

Cc: E. Delaney, WCDOH

D. Berman, Scotts Corners Business Association

R. Roth, Scotts Corners Business Association

M. Morgante, MPI

TEST PIT LOG

GROUND ELEV.: DATE: June 22, 2000 LOCATION SKETCH (not to scale) Westchester Ave COUNTY: Westchester TWP: Pound Ridge	TEST	PIT#: T	P-2		SITE N	AME:	Scott's C	orner		PRO	JEC	CT #: 3541003
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MALCOLM PIRNIE		TEST PIT LOG			
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Malcolm Pirnie Sept.26, 2000 Scotts Corner Septic Evaluation – Scope of Work and Cost Estimate Letter to Clay Fowler PR Planning Board Summary

- WCDOH will not relax the separation distance from existing water supply wells (200ft)
- Could consolidate the wells with a new one.
- WCDOH said they would not use the worst case percolation rate to determine hydraulic loading, but would allow a "reasonable" rate to be used.
- WCDOH states that the reserve capacity of the individual systems could be used to create an aggregate reserve capacity of multiple locations.
- Propose some kind of hybrid system, a combination of new leach fields (behind lots 59 through 63), maximizing the efficiency of the existing systems, and tying them all together.
- Need to:
 - 1. Inventory water supply wells
 - 2. Calculate water uage and wastewater discharge volume
 - 3. Figure out individual septic system details; tank and field locations and size.
 - 4. Calculate hydraulic loading
- Create base map
- Determine water usage, purchase and install meters.
- Inspect existing septic sysytems
- Calculate loading of existing systems
- Support creation of a community water supply
- Prepare modified preliminary design
- Total Cost is \$30,000.
- Create new leach field behind Lots 60 through 62 is needed.

FILE Copy

MALCOLM. PIRNIE

MALCOLM PIRNIE, INC. ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

September 26, 2000

Mr. Clay Fowler, Chairman
Town of Pound Ridge Planning Board
Town House
179 Westchester Avenue
Pound Ridge, NY 10576-1743

Re:

Scotts Corner Septic Evaluation
Scope of Work and Cost Estimate

Dear Mr. Fowler:

As you know, we have been making some progress in developing a solution to the Scotts Corners septic situation. The deep tests and percolation tests conducted beneath the parking lot yielded favorable results. In our draft letter to you dated July 11, 2000, we identified a possible disposal scenario based on some assumptions that would require certain waivers from the Westchester County Department of Health (WCDOH). One such waiver included the reduction in separation distances from the water supply wells to the septic system. The WCDOH required separation distance is 200 linear feet.

On September 6, 2000, we had a conversation with Ed Delaney of the WCDOH. Mr. Delaney stated that they are willing to be flexible, but they will not relax the 200 foot separation distance requirement. As you know, a significant number of the commercial properties have their own water supply well. The wells are located throughout the Scotts Corners commercial area and, therefore, maintaining the 200 foot separation distance reduces the amount of space available for leach fields. One strategy the Town may wish to consider is to consolidate all of the individual wells into one community system comprised of one or two wells. This consolidation would allow for greater flexibility in the placement and sizing of the systems. There may be grants or low interest loans available for the construction of a community well system. We have included a task in this letter to assist the Town in identifying and obtaining such grants or low interest loans. It should be noted that creation of a community well system is not a requirement for us to develop a solution for the existing failing systems. It will, however, impact the amount of excess capacity available for expansion.

During our conversation with Ed Delaney, we discussed two other issues: 1. Utilizing a "reasonable" percolation rate, rather than a worst case; and 2. Use of individual system reserve fields as an overall system reserve.

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Mr. Clay Fowler
Town of Pound Ridge Planning Board

With respect to the first issue, the WCDOH typically will use the worst percolation test rate to devise the hydraulic loading-rate. Upon inquiry, Mr. Delaney stated that the WCDOH would not require Scotts Corner to utilize the worst percolation test, but rather would accept a "reasonable" rate that represents all the percolation tests. This will allow for an increased hydraulic loading rate and decreased overall area.

With respect to the second issue, we asked Mr. Delaney if it would be possible to use the reserve capacity of the existing systems as an aggregate reserve to service all of Scotts Corners. This strategy would allow us to maximize the capacity of overall system by "patching" together the individual systems. Mr. Delaney stated that he would not be adverse to such an approach, and that the overall reserve capacity of the "system" could be comprised of multiple locations.

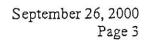
At this juncture, it appears that some form of hybrid system will ultimately work for Scotts Corners. Specifically, a hybrid system would consist of using a combination of new leach field areas (e.g., the area behind lots 59 through 63), maximizing the efficiency of the existing systems, and tying the system together.

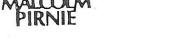
We are at the point where we need to start understanding some of the detailed engineering components of the existing systems so that we can make more definitive decisions on what will or will not work. Specifically, we need to understand the following:

- 1. How many water supply wells exist and where are they located?
- 2. What is the actual water usage for each user in Scotts Corners and what is the actual wastewater discharge volume?
- 3. What is the actual design of each septic system, including septic tank location, septic field locations, and septic field size?
- 4. Based on items 1 through 3 above, what is the actual capacity (e.g., hydraulic loading capacity) of each septic system?

Without the information mentioned above, it will be difficult for us to make decisions to move the engineering design forward. Therefore, we recommend the following steps to obtain more detailed and specific information.

1. Create a base map showing all of Scotts Corners, each septic system, and well locations. As part of a pervious task, we have compiled maps showing the locations of the majority of the septic systems. However, these maps are of





Mr. Clay Fowler
Town of Pound Ridge Planning Board

varying scales and only show individual properties. Because the final system may be comprised of a combination of new and existing leach fields, we need one base map that shows all the septic systems on which we can layout the design. To create a base map, we would scan the existing drawings into a computer and compile the pieces together at a uniform scale. The estimated cost to create a base map is \$ 4,500.

2. Determine actual water usage. While the water use at Scotts Corners has been estimated in the past by us and others, it is important to know the actual use to determine the adequacy of the existing septic system and to aid in the sizing of a new system. Such information would also be valuable to justify specific design parameters with the WCDOH, and in the siting of a community water supply well, if necessary. This can be easily accomplished by placing water meters at each of the buildings. Water meters cost around \$100.00 each. Water use can be monitored and recorded by each tenant on a weekly basis.

For this task we would assist Scotts Corners in the purchase and placement of the water meters and the tabulation of the data. The estimated Malcolm Pirnie labor for this task is \$ 2,000. The estimated cost for the water meters is \$2,500, assuming there are 25 meters required at a cost of \$100 each.

- 3. Existing Septic System Inspection. As part of a pervious task, we identified the type of septic system for each of the buildings at Scotts Corners. It is now time to do a detailed inspection of each of the septic systems to determine the size of the tanks, linear feet of leach field pipes, leach field size, reserve field size, and overall condition. This information will be important in determining the adequacy of the existing systems to accommodate the existing hydraulic loads, and whether or not each system could accommodate additional loads. The inspection information will also be used to update the base map. The estimated cost for us to inspect each system is \$ 4,000.
- 4. Calculate Hydraulic Loading Capacity of Existing Septic Systems. Based on the results of the septic system inspection, we will calculate the hydraulic loading capacity of each of the existing septic systems. This will provide us with insight as to whether or not the existing systems are adequate to accommodate the existing loads and whether or not they can accommodate additional loads. We will also identify/recommend modifications (if applicable) that could enhance the capacity of each system. The estimated cost to complete this task is \$ 2,500.

Mr. Clay Fowler Town of Pound Ridge Planning Board September 26, 2000 Page 4

- 5. Community Water Supply System Grant. We will assist Scotts Corners to identify possible sources of funding (grants or low interest loans) to install a community water system. We will also provide assistance in preparing application materials if an appropriate source of funding is located. It should be noted that the installation of a community water supply system is not critical to moving forward, however, if a community system could be put in place, there would be increased flexibility and opportunities for leach field placement and design. The estimated cost to complete this task is \$ 1,500.
- 6. Prepare a Modified Preliminary Design. Once Tasks 1 through 5 are completed, we will have sufficient information to modify the design for the new leach field area, optimize the capacity of the existing systems, and prepare a preliminary design tying the system together. The design would be shown on the base map and would be the basis for discussions with the WCDOH. We have also budgeted for two meetings as part of this task. The estimated cost to complete this task is \$12,500.

The total cost to complete this next phase of work as discussed in Tasks 1 through 6 above is \$ 29,500 (including the cost for the water meters).

We believe that the approach discussed in this letter has the best opportunity to succeed. Based on our pervious work, we are confident that, at a minimum, the new leach field area (behind lost 60 through 62) would be sufficient to alleviate the existing failing system problem. The goal now is to attempt to optimize the existing systems so that additional capacity may be incorporated into an integrated system comprised of new and existing septic system components.

We appreciate the opportunity to provide you with this Scope of Work and Cost Estimate. If you have any questions, please call me at 201-529-4700.

Very truly yours,

MALCOLM PIRNIE, INC.

Michael van der Heijden

Associate

jtc 199-0577-739

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2002 Summary form List of Reports

April 2002

Scotts Corners Potable Water and Wastewater Conceptual Investigation Letter from Folchetti & Associates to Joy Simpkins

Waste WaterWastewater System investigation for Scotts Corners northwest parking lot.

WCDOH would not relax separation distances to wells.

- Quad Parcel (9320-56) found unsuitable for SSDS.
- Town Park site may be suitable for SSDS.
- Golf Course option for disposal through irrigation may be feasible.
- Potable Water
- 2 systems provide water to Stamford, CT: Stamford System & Laurel System.
- Laurel System supplies N. Stamford. It is a closed system and providing 60,000 gpd to Scott's Corners would require a system upgrade.
- Stamford System is questionable because it does not have a large margin of safety.
- Water service via Golf Course may be viable alternative. BHC was supportive.

Additional technical notes extracted by TD on the 2002 letter 3/20/2016

Parking Lot SSDS for Lots 56 (Quade) and 58 through 65 (Block 9320) is not feasible

- Need to be able to treat 50,000 gpd
- For 60, 61, and 62, preliminary design indicated a 4X4 galley SSDS could handle 24,000 gpd. But this requires relaxation of separation distance from public water supply well from 200 to 100 feet.
- Also sizing of the above will only handle 8,640 gpd.
- Then need to use Lot 56.
 - o But test pits in 1992 determined it was not feasible due to groundwater within 4 feet of the surface, bedrock or boulder within 5 feet of the surface, and proximity to wetlands.

Park Athletic Facilities Lots 8, 86, 152, Block 9820.

- Even with potentially favorable soils, the area needed would require variances from regulatory agencies in terms of application rates and reserve areas.
- Perc testing was not done as a drought condition caused WCDH to suspend soils testing.
- For 86: 5 holes were done for perc tests, 11 to 27 min/inch
- 5.4 acres available with 150' setback from wetlands, and 20 foot offset from wetlands
- For a flow of 50,000gpd, @100% reserve area, need 6.7 acres using a 4X4 galley system on 14 foot centers.
- For a credit for treated effluent, allowing a 25% increase in loading, and a 50% reduction in reserve area, the area required for a 4X4 galley would be 4.02 acres.

- Slopes are OK at 4 to 20%, with 20% allowable by 1988 DEC design standards.
- BUT 4X4 not allowed on 20% slope areas; need tri-gallies
- For a flow of 50,000gpd, @100% reserve area, need 9.2 acres using trigallies on 12' centers.
- For a credit for treated effluent, allowing a 25% increase in loading, and a 50% reduction in reserve area, the area required for tri-gallies would be 5.5 acres.

Wastewater treatment through Golf Course Irrigation

- See discussion seems unlikely though a permit was issued to a golf course in Orange County.
- Not sure here, but as the golf course has at this point been built, it may not be an option

Potable Water

- Trinity Reservoir, part of the Stamford system. The Laurel also provides raw water to the water treatment plant on Interlaken Rd. in Stamford.
- Potable water is distributed via the Stamford system and the Laurel System
- The possibility of providing Scotts Corners with 60,000 gpd would require system upgrades and storage facilities.
- The Stamford System is fully utilized.

Ground Water Resources

• Long story made short is that drilling two test wells on BHC land at a rate of 60,000 is too risky and might ultimately result in the migration of the MTBE plume.

Water Service via the "Proposed" Golf Course.

- The golf course raw water storage tank might be operated by BHC and might have an allocation for Scotts Corners.
- Use of this water for potable purposes would have to involve the CT DEP, Dept of Public Health, and Dept, of Public Utility Control.
- This report precedes the golf course development so an update would be needed.

CLAY

J. ROBERT FOLCHETTI & ASSOCIATES, L.L.C.

CIVIL / ENVIRONMENTAL ENGINEERS

247 ROUTE 100 PINEWOOD BUS. CTR. SOMERS, NY 10589 (914) 232-2500 (914) 232-6827 (FAX)

40 RAILROAD AVENUE MONTGOMERY, NY 12549 (845) 457-5318 (845) 457-9392 (FAX)

FAX TRANSMITTAL SHEET

TO:

Honorable Joyce Simpkins

FROM:

Robert M. Trzepacz, P.E.

FAX#:

914-764-0102

DATE:

April 12, 2002

RE:

Please find the attached correspondence, as we discussed on April 4, 2002. Originals will follow in the mail. Should you have any questions, please do not hesitate to contact me. Thank you.

NO. OF PAGES (including cover sheet):

7

PLEASE DELIVER THIS DOCUMENT IMMEDIATELY TO ADDRESSEE. PLEASE TELEPHONE US AT (914) 232-2500 IF ANY DOCUMENT IS ILLEGIBLE OR IF ALL PAGES ARE NOT RECEIVED.

J. ROBERT FOLCHETTI & ASSOCIATES, L.L.C. CIVIL / ENVIRONMENTAL ENGINEERS

April 11, 2002

Honorable Joyce Simpkins Pound Ridge Town House 179 Westchester Avenue Pound Ridge, New York 10576

SUBJECT: SCOTT'S CORNERS POTABLE WATER AND WASTEWATER CONCEPTUAL INVESTIGATION

Dear Ms. Simpkins:

We would like to take this opportunity to advise you of the progress of our investigation. Alternatives are presented in two sections: wastewater and potable water.

1. WASTEWATER SYSTEM

1.1 PARKING LOT SSDS FEASIBILITY (LOTS 56 AND 58 THROUGH 65 BLOCK 9320)

Review of previous soil testing data and other data provided indicates that construction of a subsurface disposal system to treat an average daily flow of 50,000 gpd is not feasible given the following considerations:

- Subsurface investigation of lots 60, 61 and 62 of block 9320 and preliminary design of a subsurface disposal system (SSDS), reported July 11, 2000, concluded the maximum capacity of a 4x4 galley SSDS system at this location to be approximately 24,000 gpd.
- System capacity of 24,000 gpd required relaxation of required separation distances from the public water supply well from 200' to 100 feet.
- Telephone conversations with E. Delaney, WCDOH indicate that relaxation of the separation distance will not be permitted at this time.

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☐ 40 RAILROAD AVENUE MONTGOMERY, NY 12549 845-457-5318 Fax 845-457-9392 Honorable Joy Simpkins Scotts Corners Potable Water and Wastewater Conceptual Investigation April 11, 2002 Page 2

- We disagree with the system sizing provided in the July 11, 2000 report. Our calculations indicate the galley system proposed (1,800 lf of 4x4 gallies) is capable of treating approximately 8,640 gpd based on 1988 NYSDEC regulatory standards and the percolation rate information provided.
- Use of lot 56, Block 9320, would be required to provide for flows greater than 8,640 gpd and was proposed for reserve absorption area under the July 11, 2000 layout.
- Test pits excavated January 15,1992 on Lot 56, Section 9320 determined:
 - Bedrock or rocks too large to move with a standard backhoe were found within 5 feet of the surface
 - Groundwater was within 4 feet of the surface
 - Useable area extremely limited due to proximity to wetlands, rock and groundwater
- The "Quade" parcel (TM# 9320-56) was found to be unsuitable for use as a subsurface discharge site in the <u>Wastewater Treatment Feasibility Study</u>. Scotts Corners, Pound Ridge, NY, prepared by J. Robert Folchetti & Associates, May 1992

1.2 PARK ATHLETIC FACILITIES (LOTS 8, 86, 152 BLOCK 9820)

Preliminary investigation of this parcel based on available information indicates soils characteristics and ground slopes are conducive to subsurface disposal. Gross system area requirements necessitate allowances from regulatory agencies for discharge of treated effluent in the form of an application rate credit and reduction of reserve area. Even with the credits use of tri-gallies is marginal and use of a 4x4 galley system would require further discussion with WCDOH. Subsurface disposal credit for treated effluent is not provided by WCDOH or NYSDEC. Discussions with WCDOH suggest that treated effluent credit may be considered by the regulatory agencies if it were requested

To advance this alternative, additional soils tests are required to determine depth of impervious surfaces, soils identification and groundwater depth. Percolation testing will be required for estimation of hydraulic conductivities in accordance with regulatory standards for preliminary system design. Testing is not possible at this time as Westchester County Department of Health has suspended soils testing since December 2001 due to the temporal drought conditions.

Honorable Joy Simpkins Scotts Corners Potable Water and Wastewater Conceptual Investigation April 11, 2002 Page 3

This assessment was based on the following factors:

- The "Town" parcel (TM# 9820-86) may be suitable for use as a subsurface discharge site in the Wastewater Treatment Feasibility Study, Scotts Corners. Pound Ridge, NY, prepared by J. Robert Folchetti & Associates, May 1992, based on reconnaissance soils tests.
- Reconnaissance soil tests conducted May 1992 provided the following results:
 - 5 deep holes excavated overall depth 7-9 ft.
 - No groundwater encountered
 - No bedrock encountered
 - Clayey sand soils in upper horizons, 3 holes had lower horizons of gravelly sand
 - Percolation tests were conducted at all 5 locations at a depth of 4 ft.

 Rates ranged from 11 to 27 min/ inch
- Gross lot area available for SSDS is approximately 5.4 acres which maintains a 150' setback from wetlands designated by Marc Beroz, January 29, 2002 and a 20 offset from lot lines
- Gross area required for 4x4 galley system to treat an average flow of 50,000 gpd (including 100% reserve area) is approximately 6.7 acres. Galley spacing 14 ft. on center as stated by WCDOH
- Should a credit be permitted for treated effluent allowing a 25% increase in loading and 50% reduction in reserve area, the required area for 4x4 gallies would be approximately 4.02 acres (including 50% reserve area)
- Site slopes vary from 4% to 20%. NYSDEC 1988 Design Standards stipulate maximum slopes for SSDS are 20%.
- WCDOH indicated 4x4 gallies may not be permitted for use on slopes approaching 20%, tri-gallies are recommended
- Gross area required for a tri-galley system to treat an average flow of 50,000 gpd (including 100% reserve area) is approximately 9.2 acres. Galley spacing 12 ft. on center as stated by WCDOH

Honorable Joy Simpkins
Scotts Comers Potable Water and Wastewater Conceptual Investigation
April 11, 2002
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Should a credit be permitted for treated effluent allowing a 25% increase in loading and 50% reduction in reserve area, the required area for tri-gallies would be approximately 5.5 acres (including 50% reserve area)

1.3 WASTEWATER TREATMENT THROUGH GOLF COURSE IRRIGATION

Representatives from the NYSDEC, WCDOH and the Golf Course Developer were contacted and were presented with the concept of treated effluent disposal through irrigation. The NYSDEC representative indicated that a golf course in Orange County, NY was issued a discharge permit for this type of system. Both regulators felt that this could be a feasible alternative for Scotts Corners though more information would be required for further discussion.

NYSDEC stated they would obtain a copy of the Orange County discharge permit for our use and indicated that tertiary treatment would probably be required, most likely in the form of sand filtration. WCDOH comments focused on application timing, rain events, public exposure and storage requirements. Legal council for the developer stated they would be open to discussion of this matter, however would not want this to adversely affect the status of their application currently before the Town Planning Board.

Development of this alternative would require equalization in addition to a conventional means of discharge since land application will be weather dependent and largely seasonal. Connecticut Department of Environmental Protection prohibits surface water discharge within a water supply basin, relaxation of this requirement may be necessary. CT-DEP stated that they would not be inclined to allow a surface water discharge within a water supply basin.

2. POTABLE WATER

2.1 TRINITY RESERVOIR

According to Bridgeport Hydraulic Company representatives the Trinity Reservoir is one of the contributing reservoirs to the Stamford System which provides potable water treatment plant on Interlaken Road in Stamford, CT. The Laurel reservoir also supplies raw water to this treatment facility. Potable water is distributed from the plant via two systems, the Stamford System and Laurel System.

Honorable Joy Simpkins Scotts Corners Potable Water and Wastewater Conceptual Investigation April 11, 2002 Page 5

The Laurel system which supplies North Stamford is a closed system which is a pressurized zone with no hydro-pneumatic or atmospheric storage. Providing 60,000 gpd for the Scott's Corners Area would require equipment upgrades to the existing Laurel System and it is likely that a means of storage would have to be required given the increased service area and usage.

Bridgeport Hydraulic Company indicated that the Stamford System does not have a large margin of safety and it is questionable if sufficient supply exists to provide 60,000 gpd to Pound Ridge. Mandatory usage restrictions are in effect in Stamford at this time. Treated water from the Interlaken Road Plant is supplemented by a small well and purchased water from BHC's Main System for distribution to its Connecticut customers. Given the Town's agreement regarding rights to raw water resources, BHC felt further investigations were required to determine the most appropriate means to provide potable water to this area.

2.2 GROUNDWATER RESOURCES

A Hydrological report prepared for BHC investigating groundwater resources within Pound Ridge was reviewed. 35 commercial/ residential wells were identified as contaminated with varying levels of MTBE. Subsequently, a fracture trace analysis and geological investigation were conducted by the author of the report. The conclusion of the assessments recommended drilling of test wells in two parcels owned by BHC which were identified as stratified drift geologic formations with fracture trace lineaments present in the underlying rock strata. Test wells would be required to determine if the stratified drift formations are thick enough to sustain the average daily water demand or if wells developed in bedrock could sustain the required demand.

The average daily water demand identified in the report was 15,000 gpd (5.5 mgal/year). The desired yield at this time is 60,000 gpd (21.9 mgal/year), which represents an increase of 400%. While the previous investigation stated that the proposed wells would be located far enough away from Scott's Corners and that there would be "no concern of interference or impact from the contaminant plume" it is our opinion that this alternate represents the highest risk solution. Expenditures for drilling, soils analysis, pump testing and water quality analysis are required to determine: if the formations are capable of providing and sustaining the required flows, if the raw water meets required water quality standards and what effect the withdrawal may have on transport of the contaminant plume. There is no assurance that this alternative will meet the Town's needs after completing the tasks required to advance this alternative.

Honorable Joy Simpkins Scotts Corners Potable Water and Wastewater Conceptual Investigation April 11, 2002 Page 6

2.3 WATER SERVICE VIA PROPOSED GOLF COURSE

BHC has indicated that the storage tank being contemplated for the Golf Course will be owned and operated by BHC for its Connecticut customers. Peter Galant, BHC, believed that the proposed tank size is adequate to serve the Scott's Corners Area originally contemplated for service, but could not recall the specific allocation for Scott's Corners at that time. Furthermore BHC stated that regulatory approvals from Connecticut would be required, specifically from the Department of Public Health, Department of Environmental Protection and the Department of Public Utility Control. Representatives from the developer of the proposed Golf Course have indicated that they would be open to discussions regarding this issue. Bridgeport hydraulic was supportive of this alternative.

Following your review of this letter we would like to meet and discuss project with respect to:

- Coordinating potable water supplies and wastewater treatment provisions
- Available wastewater options
- Scheduling a meeting with Town representatives, BHC, WCDOH, NYSDEC, CT DEP, CT DOH and representatives from the proposed golf course to advance selected alternatives. This appears to be the most promising of the water supply options, although the quantity of water which BHC is prepared to furnish is unconfirmed at this time.

Given the WCDOH moratorium on soils testing, lengthy response times from regulators and availability of regulators due to vacations, it is not possible to complete the report by the scheduled date of May 3, 2002. We would like to discuss revisions to the project schedule in light of the Town's needs and availability of information. We believe we can conclude the potable water section of the report following a meeting with the Connecticut and New York Regulatory Authorities. Please contact me at your convenience to determine a suitable time to meet.

Very truly yours,

Robert M. Trzepacz, P.E.

cc: C. Fowler

G. Warshauer

K. Taft

J. R. Folchetti

File

POUND RIDGE WASTEWATER TASK FORCE

Appendix B: Historical Potable Water Reports

Appendix for Potable Water

1973 Dec. 21 Pound Ridge and Stamford Water Company contract to relocate Eastwoods road and to construct reservoir, dams and dikes in the vicinity of the present Siscowit Reservoir. Of note it seems that the Town of Pound Ridge has the "right, privilege and priority to draw water from the completed Project" for Town purposes, residential and commercial use.

1997 April 15, Maps associated with BHC providing potable water to Scott's Corners.

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1997 May 12, Feasibility Study for providing Scott's Corners potable water from 3 - 500 foot deep wells on BHC property on Westchester Avenue. A conceptual cost estimate is included that totals \$1.1 million.

1997 June 5 Four conceptual estimates to provide potable water to Scott's Corners, two interconnect and two groundwater wells. Costs range from \$800K to \$1.5M. A map of the areas to be served is included.

1998 Dec. 9, Agreement between BHC and Shell to prepare bid ready documents and an estimate for water main to Scotts Corners. The permitting process has not been addressed. It also contains a list of properties to be served.

1999 Nov. 23: Letter indicating the New Canaan would oppose any street openings that are required for the BHC Pound Ridge Water Supply Project.

June 22 1999: Letter from BHC to Keane and Beane regarding an estimate for the work for a pipeline at the cost of \$2.1 million and a ground water source for Pound Ridge from wells at \$500,000. The proposed well location is in a wetland. Permissions and permitting not addressed.

June 14, 1999 Letter from New Canaan selectman to Joy Simpkins, vague denial (of project?). May 4, 1999 Meeting Notes from New Canaan and Pound Ridge representatives resulting in denial of project based upon New Canaan not issuing permits. A water line might cause cause "downzoning" of that area of New Canaan. This superseded discussions about repaving costs which were also discussed. Sept. 8, 1999 Letter from BHC to Joy Simpkins regarding rights of BHC to put pipelines in New Canaan roads and a comment on water rates.

2000 September, Malcom Pirnie study proposal discusses regulatory issues Wastewater Appendix with potable water wells and the possibility of combining them into a Community Water Supply, but wants to start over with a wastewater study.

2002 April, Folchetti study also discusses potable water solutions, Wastewater Appendix water from Stamford, drilling wells and getting water from the golf course.

1973 Dec. 21 Pound Ridge and Stamford Water Company contract to relocate Eastwoods road and to construct reservoir, dams and dikes in the vicinity of the present Siscowit Reservoir. Of note it seems that the Town of Pound Ridge has the "right, privilege and priority to draw water from the completed Project" for Town purposes, residential and commercial use.



Construction

AGREEMENT made the 21st day of December 1973 by and between

THE TOWN OF POUND RIDGE, a municipal corporation having its office and place of business at Westchester Avenue (no street number), Pound Ridge, New York

hereinafter referred to as the Town, and

STAMFORD WATER COMPANY, a corporation specially chartered by the General Assembly of the State of Connecticut and having offices for the transaction of business in the City of Stamford, County of Fairfield and State of Connecticut,

hereinafter referred to as Water Company:

WITNESSETH:

WHEREAS, Water Company heretofore made application to divert water and to construct a reservoir, dams, dikes and appurtenances in, on or in the vicinity of its present Siscowit Reservoir, also known as Mead's Pond ("the Project") on premises owned by Water Company in the Town, and

WHEREAS, Water Company has heretofore made application to the Town for permission to relocate portions of Eastwoods Road, as part of the Project, as shown on the plans, drawings and specifications filed with the Town, and has requested that the Town approve the proposed relocation of said road in accordance with maps and surveys filed with the Town, and

WHEREAS, the Town did refer the aforesaid application to the Planning Board for consideration, study and recommendations, and did simultaneously refer the aforesaid application to the Water Control Commission for recommendation and report, and the aforesaid reports and recom-

mendations having been received and filed, and the aforesaid Planning Board, Water Control Commission and Town Board having heretofore agreed to the issuance of a single permit for construction and operation of the Project and road relocation subject only to the execution of this agreement, and

WHEREAS, Water Company has obtained approvals from other State and County boards, departments, bureaus and agencies having jurisdiction.

NOW, THEREFORE, in consideration of the mutual covenants and agreements hereinafter set forth, the parties covenant and agree as follows:

- 1. Water Company shall at its own expense construct the Project or portions thereof, substantially as shown on the aforementioned maps and operate the Project in accordance with all applicable laws, rules and regulations of the Town of Pound Ridge, the County of Westchester, the States of New York and Connecticut and the United States Government, and all departments, boards, bureaus and agencies thereof.
- 2. Water Company shall pay all fees of the Town in connection with the Project, including building permit fees and reasonable fees of the Town Engineer or inspectors, and shall obtain any additional permits necessary for the construction and completion of the Project.
- 3. During the course of construction of the Project Water Company shall comply with such reasonable safety precautions and regulations as the Town or any authorized officer or department thereof, including, but not

limited to, the Town Engineer, Town Police Department, Town Building Inspector and Town Fire Marshal may promulgate for the protection of the residents of the Town and other members of the public using or being in the vicinity of the construction project or the existing or proposed roads in the immediate vicinity of such project.

- 4. The Project shall be constructed to establish the high-water mark in the reservoir at maximum elevation of no more than 485 feet above sea level as shown on the map annexed hereto as Exhibit A.
- 5. The dam and dike (and any future enlargements thereof acceptable to the Town) shall be constructed in accordance with drawings and specifications to be finally approved by the State of New York and furnished to the Town and annexed hereto as Exhibit B.
- 6. The portions of Eastwoods Road to be surrendered by the Town and deeded to the Water Company shall be as shown on the survey annexed hereto as Exhibit C.
- 7. The relocated portions of Eastwoods Road to be located on premises presently owned by Water Company and as shown on the survey annexed hereto as Exhibit D shall be, except as hereinafter provided, deeded in fee simple absolute, free and clear of all encumbrances, (except those acceptable to counsel for the Town), to the Town for dedication as a portion of the public highway system of the Town.
- 8. The following requirements shall be applicable during the course of construction unless temporarily waived from time to time by the Town Engineer:

- (a) Two-directional vehicular traffic shall be maintained on Eastwoods Road.
- (b) Temporary detour routes shall be subject to the approval of the Town Engineer with respect to location and minimum quality of road surface and drainage.
- (c) Vehicular right of way shall be maintained by such signs, signal devices or flagmen as may be reasonably required by the Town Engineer, at the expense of the Water Company or its Contractor.

Night lighting and barricading on detour routes and/or roads under construction shall be as reasonably required from time to time by the Town Engineer, at the expense of the Water Company or its Contractor.

- (d) The Water Company shall be responsible for road sprinkling and dust control in accordance with reasonable regulations to be issued by the Town Engineer.
- (e) A schedule of materials to be hauled away from the reservoir site on Town roads shall be filed with the Town Engineer before any such hauling, such schedules to include the location and approximate quantity of materials to be hauled and the proposed routes to be followed.
- (f) Transportation of materials and construction equipment to and from the site shall be via a portion of Eastwoods Road and other roads approved by the Town Engineer but shall not include:

Old Church Lane north of Old Mill Road; SiscowitRoad outside the construction area;

Eastwoods Road west of Old Church Lane; Hack Green Road; Conant Valley Road; Barnegat Road; Trinity Pass Road.

- (g) Excavation and trucking shall be restricted to the hours of 7:00 a.m. to 5:00 p.m. and shall be prohibited on Sundays and legal holidays except for emergencies.
- (h) Blasting operations shall be conducted pursuant to permit from the Town Engineer or Building Inspector who shall condition such permit as he may deem necessary for the protection of adjoining structures.
- (i) The Town Engineer and Building Inspector shall have the right at all times to enter the premises and inspect conditions to determine possible violations of the provisions of this agreement.

- 9. Downward slope protection shall be provided along the relocated Eastwoods Road, prior to public use, such protection (except on the dam) to consist of large boulders situate five to six feet apart, with intermediate tree plantings. At the option of the Water Company stone walls may be substituted for boulder and tree protection.
- 10. Guardrail or barrier protection along the highway on dike or dam or in the immediate vicinity thereof shall be installed as approved by the Town Engineer, and such protection shall meet all Standards of New York State.
- 11. Minimum flow of 50,000 gallons per day (except during extreme drought conditions) shall be provided via release from dam or dike to stream flowing from western side of Project to Laurel Reservoir via Scotts Corners.
- 12. The relocated Eastwoods Road shall be constructed in accordance with all applicable road construction regulations as of the date hereof, except as otherwise previously approved and except as modified by width and other limitations in connection with the dam construction.

Hall, as provided by applicable decisions and permits of the New York State Water Resources Commission, have the right, privilege and priority to draw water from the completed Project (but not before the reservoir is filled) for Town purposes and residential and commercial use and shall pay reasonable charges therefor. In the event that the Town shall exercise its right to draw water after completion of the Project, the Town shall be and hereby is permitted to construct a suitable pump house on .

Water Company property, and all required appurtenant apparatus, water pipes and electrical lines as may be required all

at the sole expense of the Town and subject to reasonable written approval of the Water Company prior to construction. For that limited purpose the Town shall be deemed to have a perpetual easement over Water Company property within and on which to locate the pump house, pipes and other equipment; provided, however, that Water Company shall concur in the location of any pump house, pumping equipment, pipe or electric lines and related facilities and the required easement area.

standard dry hydrant shall be installed at such elevation and location and of such type and having such fittings as may be directed by the Fire Chief of the Town Fire District at Water Company's expense and shall become the property of the Town Fire District. If such dry hydrant shall be situate on Water Company property, the Town, for fire fighting purposes, shall be deemed to have an easement over a strip of land sufficient in width for access from the nearest highway to the dry hydrant by fire fighting equipment. Maintenance of the hydrant and of the access to it from the nearest public highway shall, after installation of the dry hydrant, be the responsibility of and at the expense of the Town Fire District.

less from the claims of any person resulting from damage to person or property in connection with any and all construction work on the Project, and attributable to negligence on the part of the Water Company, and from all expenses resulting therefrom (including reasonable attorneys' fees) incurred by the Town in resisting any claim against the Town. In

furtherance of the foregoing, Water Company or its contractors or agents when construction of the Project starts shall procure and maintain, or cause to be procured and maintained, public liability insurance in the limit set by the Water Company for the liability insurance to be carried by its contractor in connection with the aforementioned construction work, such insurance to name the Town as an additional named insured. Water Company or its contractors or agents shall furnish the Town with a certificate of such insurance, which certificate shall provide that the policy for such insurance shall not, while the Project is under construction, be cancelled without at least ten days prior notice to the Town or amended so as to adversely affect the interest of the Town

16. When the relocated portions of Eastwoods Road are satisfactorily completed the Town will, upon inspection of the relocated portions of said road by its appropriate officers and inspectors and certification by such officers and inspectors of the condition thereof, accept the same as a public highway (except for that portion on the dam which will be accepted as a perpetual easement for highway purposes) upon the delivery to it of a bargain and sale deed of the same (as a highway in part and an easement in part) with covenants against grantor's acts, in proper statutory form for recording in New York and with any required documentary stamps) affixed thereto at Water Company's expense, together with a policy of title insurance issued by a member company of the New York Board of Title Underwriters insuring to the Town in the sum of ten (10) thousand dollars that title to the same is vested in the Town free and clear of all liens and encumbrances, and free and clear of all mechanic's and

similar liens. Water Company shall pay the charges of recording such deed and the premium on such policy of title insurance.

- 17. The aforementioned deed shall contain such utility and drainage easements over adjoining property of Water Company in the immediate vicinity of Eastwoods Road as the Planning Board of the Town shall require.
- aforementioned deed, the Town shall convey to Water Company by quit claim deed those portions of Eastwoods Road which have been relocated by Water Company and which are no longer needed by the Town as part of its public highway system.

 Water Company shall pay for all documentary stamps and other charges and taxes, if any, in connection with the delivery of such deed.
- 19. Water Company agrees that it or its contractors or agents shall, prior to relocation of Eastwoods Road, file a performance bond to assure the satisfactory completion of the relocated road. Said bond shall be approved as to form and surety by the attorney for the Town Board of the Town of Pound Ridge. The said bond shall continue in full force and effect until the road has been satisfactorily completed and accepted by the Town of Pound Ridge. The bond shall be in the amount of \$500,000.00.
- 20. The deed to be delivered to the Town shall include fee title to all relocated portions of Eastwoods Road, except that portion on the dam as to which it shall include a perpetual easement for highway purposes as to the entirety of the width of the same and title to the guardrails. It shall be the obligation of the Town to plow and to maintain, repair and repave the portion of the road

on the dam in the same manner as any other public highway within said town. Upon the installation of guardrails or barriers along the roadway on the dam (as hereinabove provided), the obligation to maintain, repair and replace same shall be that of the Town. Except for the foregoing obligations of maintenance and repair the Town shall have no obligation to undertake any repairs whatsoever to the dam. All necessary repairs, earth replacement, sealing or grading of the dam and all repairs to valves and continuous flow equipment shall be the responsibility of Water Company. Repair of dam by Water Company shall be conducted in such manner that traffic will be permitted to use the road over the dam during repair and maintenance work to the fullest extent possible. The Town agrees that it will, at the request of Water Company, erect signs on or in the vicinity of the dam prohibiting parking or standing of vehicles.

21. The Water Company agrees, within twelve months from the date hereof, and in any event prior to the release of any performance bonds as provided for herein, to eliminate the erosion problem at the spillway of the Mill River dam.

IN WITNESS WHEREOF, the parties hereto have signed this agreement the day and year first above written.

STAMFORD WATER COMPANY

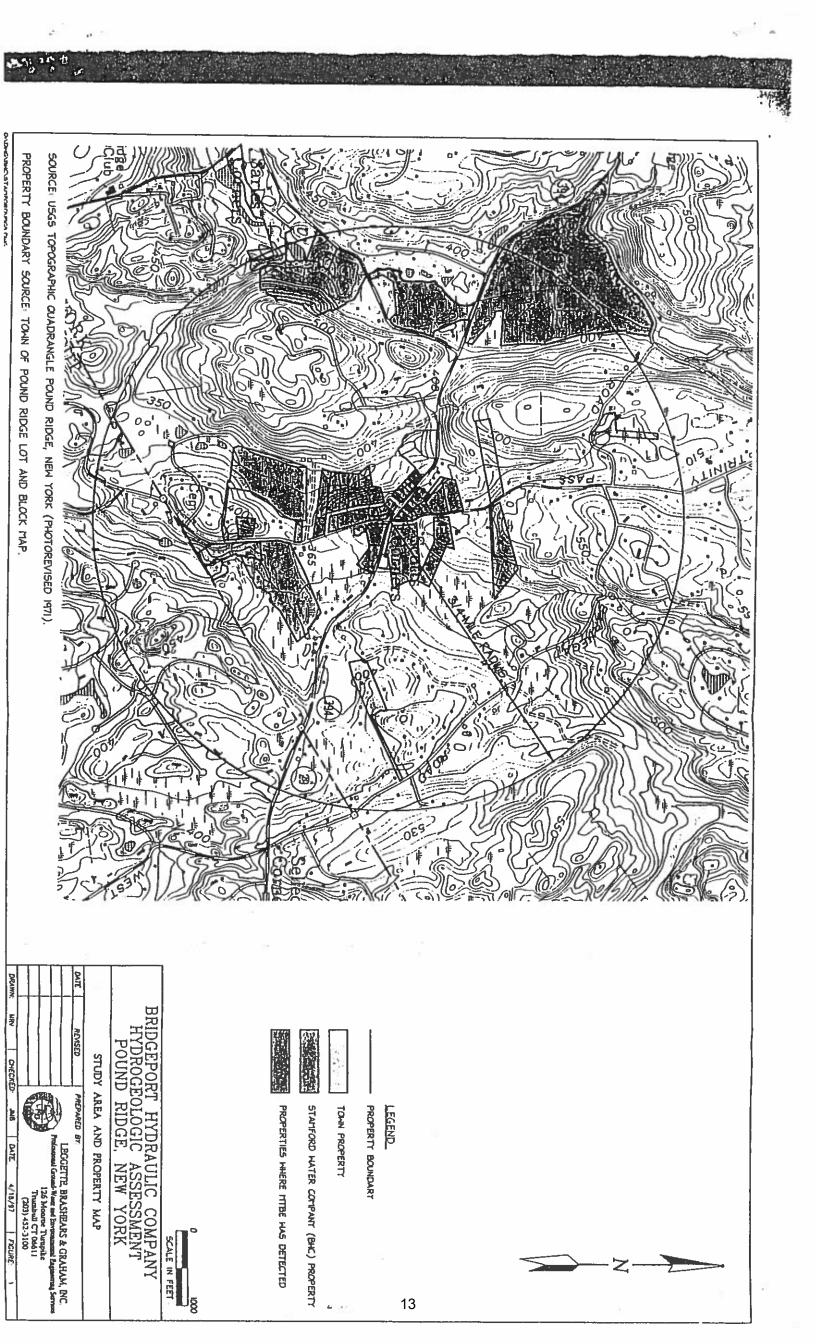
Its President

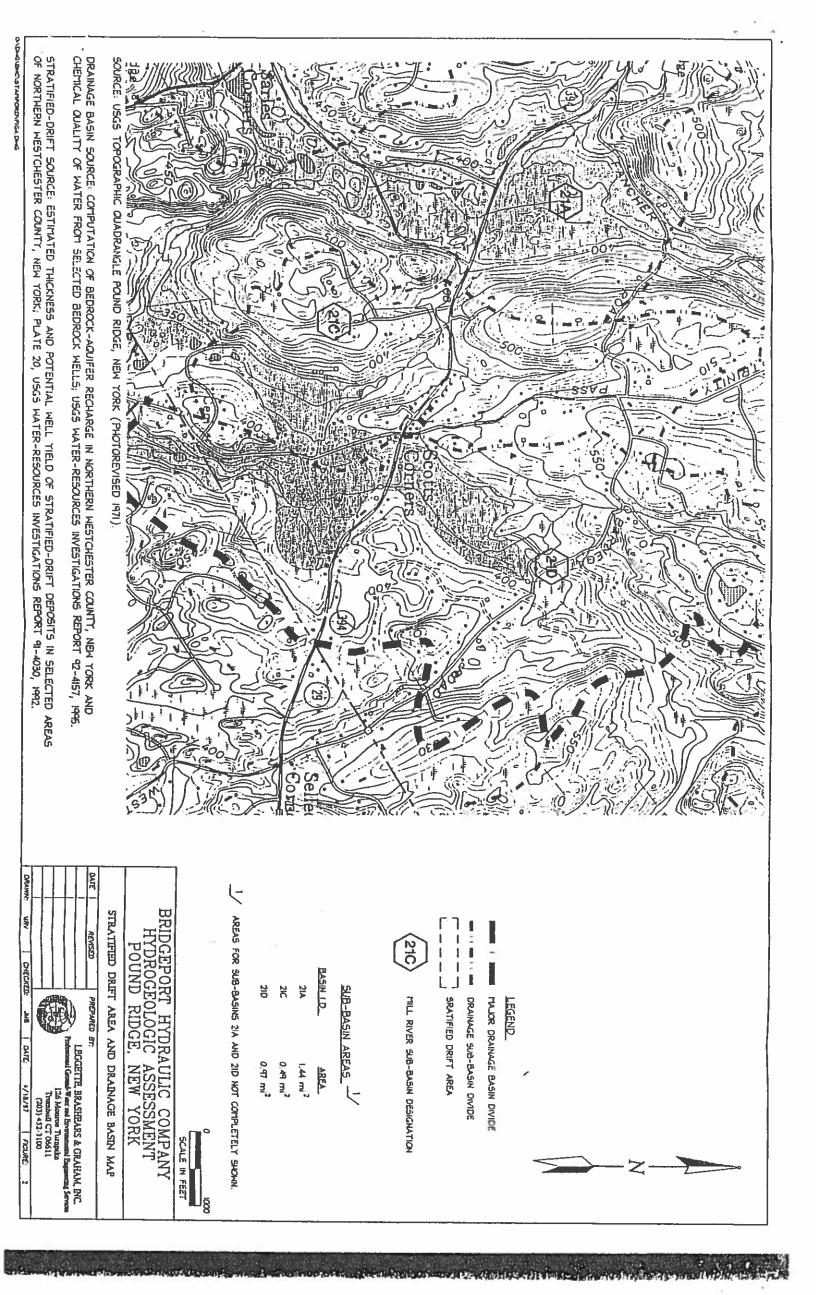
TOWN OF POUND RIDGE

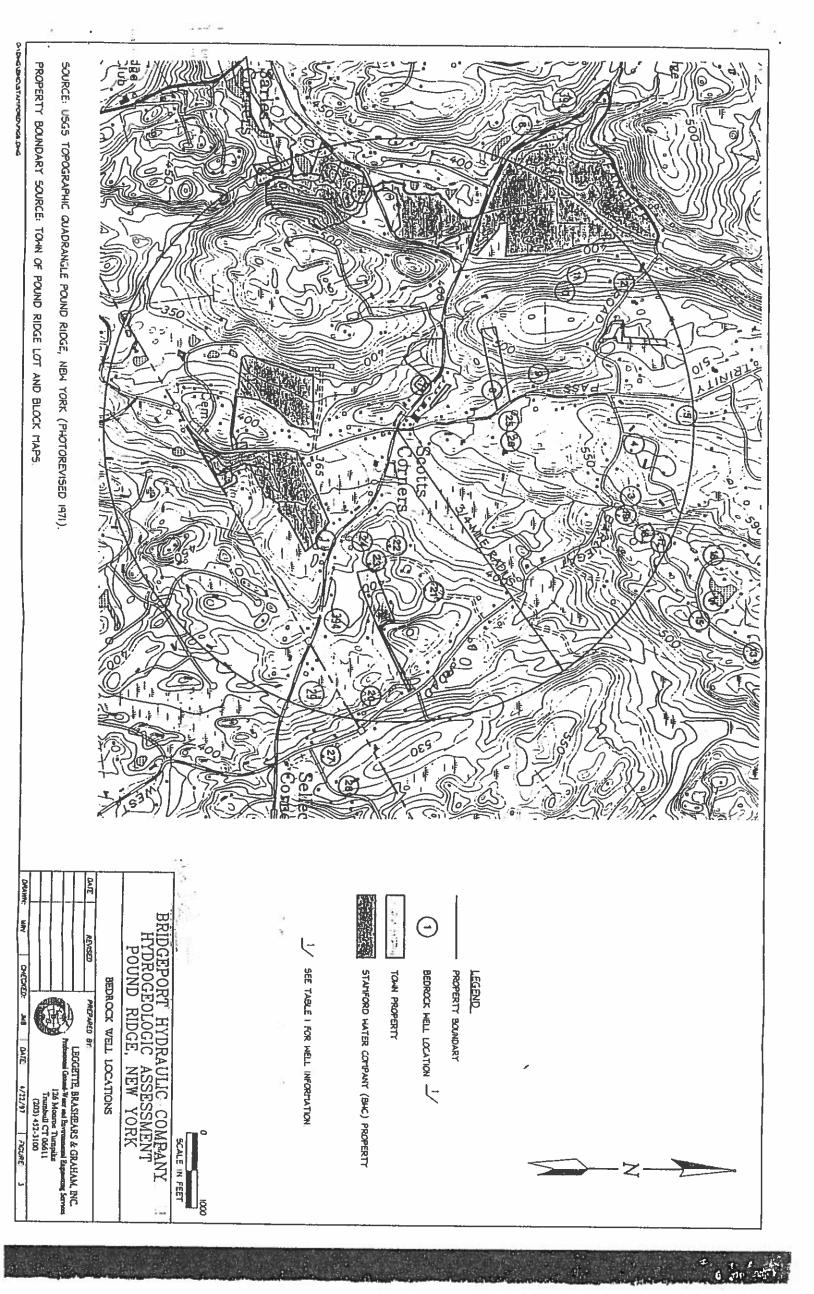
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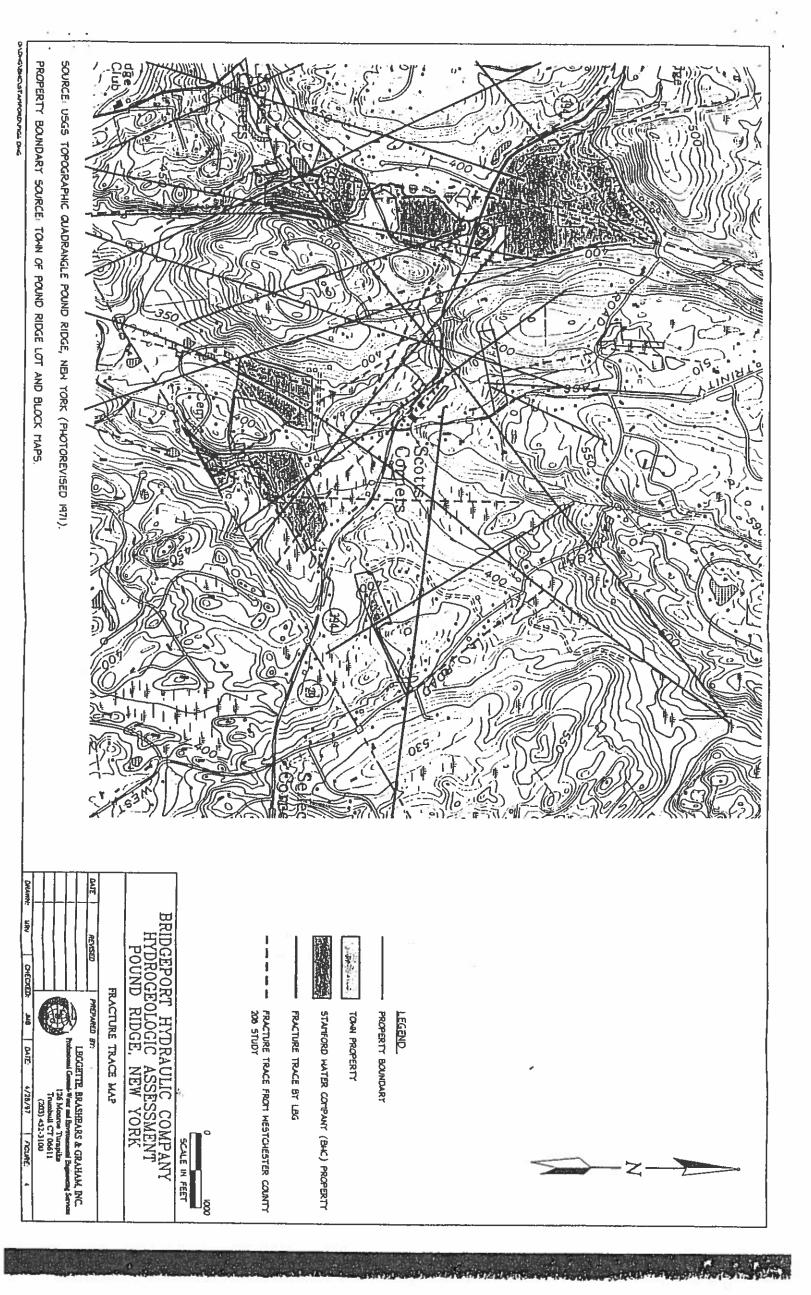
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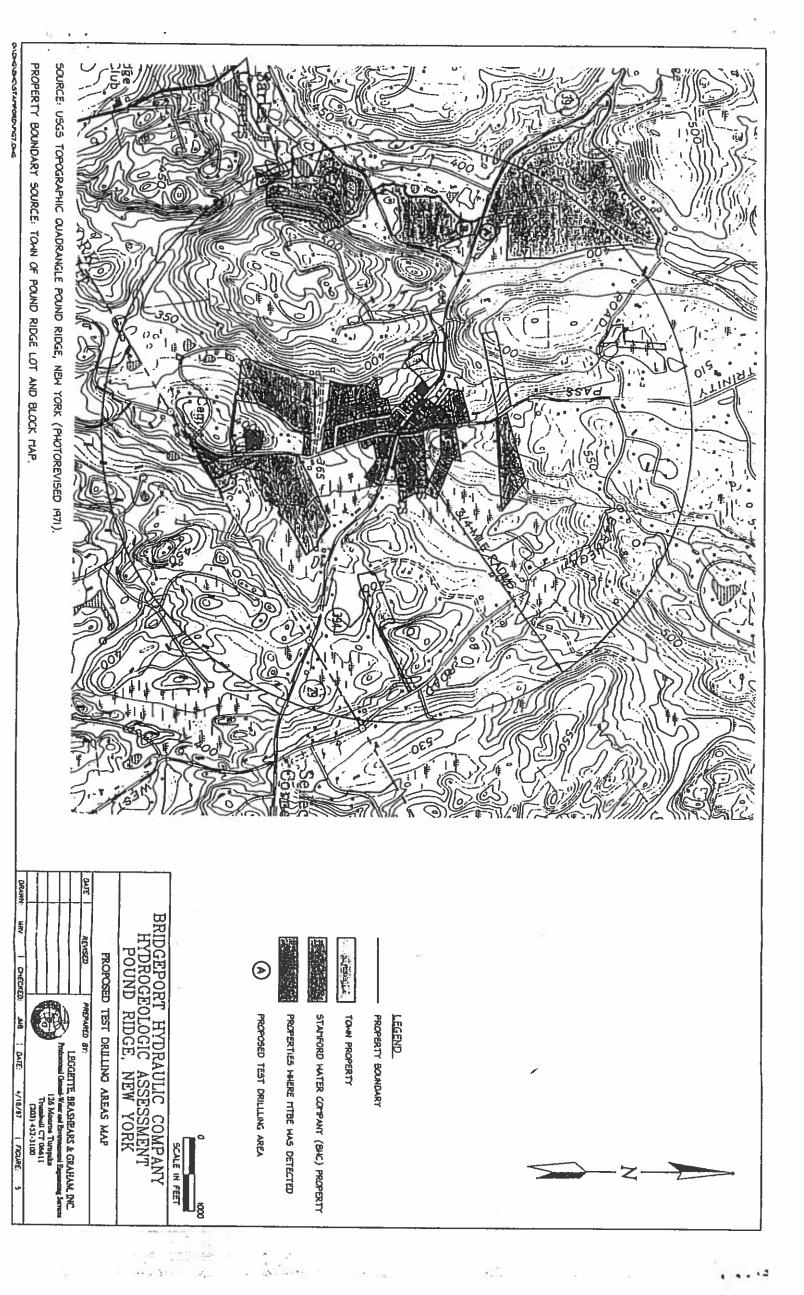
1997 April 15, Maps associated with BHC providing potable water to Scott's Corners.





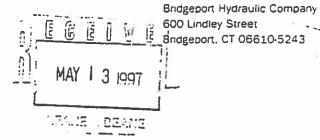






1997 May 12, Feasibility Study for providing Scott's Corners potable water from 3 500 foot deep wells on BHC property on Westchester Avenue. A conceptual cost estimate is included that totals \$1.1 million.





May 12, 1997

Mr. David McNeil Environmental Engineer Shell Oil Products Company 30 Jericho Executive Plaza Suite 500 West Jericho, NY 11753

Re: Feasibility Study for Groundwater Supply - Pound Ridge, NY

Dear Mr. McNeil:

Enclosed is a draft report prepared for BHC by Leggette, Brashears & Graham, Inc. (LBG) entitled "Hydrogeologic Assessment For the Area of Scott's Corners - Town of Pound Ridge, New York" The report presents the results of an analysis of property owned by the Town and BHC for potential development of a ground water supply to serve the area of Pound Ridge affected by MTBE contamination. It concludes that the best site for additional investigation is on property owned by BHC along Westchester Avenue, approximately 3,100 feet from Scott's Corners. Although other parcels with similar yield potential were identified, they were ruled out due to their proximity to lots that have contaminated wells. If it is necessary to pursue these sites further, the feasibility of central treatment could be investigated.

A conceptual cost estimate for providing a central water supply system to the Scott's Corners area from the proposed well site is summarized in the attached Table. This system would provide drinking water to all properties where MTBE has been detected, as identified on Figure 1 of the enclosed draft report. It should be noted that the extent of this system is greater than that previously estimated by BHC for interconnection to the Stamford system. A discussion of the specific properties to be served by the proposed water system would be helpful before finalizing the report. Perhaps this can be done in conjunction with reviewing Shell's comments.

If, after finalizing this report, Shell is interested in pursuing a ground water supply for Scott's Corners the recommended next step would be to finalize the location of, install, and test the water quality and production capacity of the necessary wells. As summarized in the attached table, three wells, with a maximum depth of 500 feet, can be installed, tested and permitted for approximately \$75,000. The final cost would vary depending on number and depth of wells, sitework necessary to access wells and unforeseen permitting issues. A report summarizing well production capacities and water quality characteristics could be provided before final permitting.

Page 2 Mr. David McNeil May 12, 1997

If you have any questions regarding the report, or would like to discuss next steps, please feel free to call me at (203) 337-5903.

Sincerely, 1

Peter B. Galant, P.E. Director of Engineering

cc: J. Suttile

G. Thomhill

R. O'Rourke, Esq.

B. Aurelius, Esq.

B. Conlon, Esq.

FEASIBILITY STUDY FOR GROUND WATER SUPPLY SCOTT'S CORNERS - POUND RIDGE, NEW YORK CONCEPTUAL COST ESTIMATE

DESCRIPTION	ESTIMATE
Install Wells (3 wells @ 500 ft. max.)	\$15,000
Test, Permit and Complete Wells	\$60,000
Well & Treatment Structures and Associated Sitework	\$200,000
Pipeline - Westchester Ave Well site to Trinity Pass (3,100 ft)	\$320,000
Pipeline - Westchester Ave East of Trinity Pass (500 ft)	\$47,500
Pipeline - Trinity Pass - South of Westchester Ave. (2,000 ft)	\$150,000
Pipeline - Trinity Pass - North of Westchester Ave. (1,500 ft)	\$142,500
Pipeline - Trinity Lane (950 ft)	\$67,000
Service Connections and Lines to House (35)	\$130,000
TOTAL:	\$1,132,000

Notes:

- 1. All estimates are considered reconnaissance grade (± 30%)
- 2. Scope of work based on draft report "Hydrogeologic Assessment For the Area of Scott's Corners Town of Pound Ridge, NY". May 1997.
- 3. Service connections exclude interior plumbing and well abandonment.
- 4. Treatment includes chlorination only.
- 5. Fire protection not included.
- 6. Legal fees for establishing a water company pursuant to NY State Transportation Corporation Law and NY Public Service Commission requirements are excluded.

1997 June 5 Four conceptual estimates to provide potable water to Scott's Corners, two interconnect and two groundwater wells. Costs range from \$800K to \$1.5M. A map of the areas to be served is included.

BHC Company 600 Lindley Street Bridgeport, CT 08610-5243 Telephone 203.337-5910



Facsimile

То	David McNeil - Shell Oil	From	Peter Galant	
Cesare Manfredi - DEC		Dete	June 4, 1997	
	9 8	Time		
Fex No.		Telephone	(203) 337-5903	
Number	of pages including this sheet 3	Fax No.	(203) 337-5839	4.1

The following is the additional cost information which you requested. Cost estimates are provided for the following four scenarios:

- 1. Ground water supply with distribution system to serve the 35 properties described on Figure 1 of the draft report "Hydrogeologic Assessment For the Area of Scotts Corners Town of Pound Ridge, NY" May 1997 as having MTBE detected (properties shown in green).
- 2. Interconnection to Stamford and distribution system and service lines to 35 homes described above. Note that limited pressure would be available to homes at elevation greater than approximately 450 ft. and that booster pumps may be required.
- 3. Ground water supply with distribution system to serve the 13 properties designated as moderate and high level MTBE concentrations on the following map (source unknown).
- 4. Interconnection to Stamford and distribution system and service lines to 13 properties described above.

I hope that this additional information is helpful in making an "apples to apples" comparison of the ground water and interconnection supply alternatives. As requested by Shell, I will prepare an order of magnitude estimate of the time frame to implement these two alternatives.

If you have any additional questions, please feel free to call me.

cc:

G. Thornhill

J. Suttile

R. O'Rourke

SCOTT'S CORNERS WATER SUPPLY SYSTEM CONCEPTUAL COST ESTIMATES

Scenario 1: GROUNDWATER SUPPLY (Detected MTBE Homes)

DESCRIPTION	LENGTH	ESTIMATE
Install 3 New Wells		\$15,000
Test, Permit and Install Pumps in Above Wells		\$60,000
Well & Treatment Structures, sitework, hydro., etc.		\$200,000
Westchester Ave Well Site to Trinity Pass	3,100	\$320,000
Westchester Ave East of Trinity Pass	500	\$47,500
Trinity Pass - South of Westchester Ave.	2,000	\$150,000
Trinity Pass - North of Westchester Ave.	1,500	\$142,500
Trinity Lane	950	\$67,000
Service Connections (35)		\$130,000
Selvice Collinations (CO)	TOTAL:	\$1,132,000

Scenario 2: INTERCONNECTION (Detected MTBE Homes)

DESCRIPTION		ESTIMATE
Laurel Rd. to Ponus St. to Trinity Pass to Westch. Ave.	11,100	\$1,050,000
Trinity Lane	950	
Trinity Pass - North of Westchester Ave.	1,500	
Westchester Ave East of Trinity Pass	500	
Westchester Ave West of Trinity Pass to Fire House	720	\$85,000
Services (35)		\$130,000
00,7000 (07)	TOTAL	\$1,522,000

Scenario 3: GROUNDWATER SUPPLY (Moderate/High MTBE Homes)

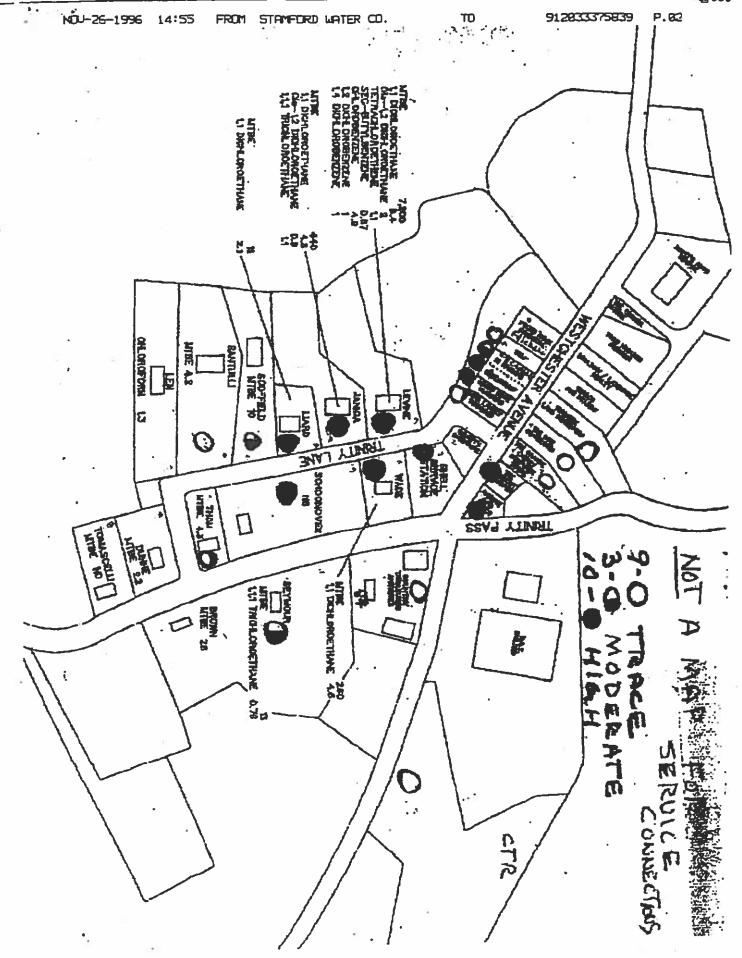
DESCRIPTION	LENGTH	ESTIMATE
Install 3 New Wells		\$15,000
Test, Permit and Install Pumps in Above Wells		\$60,000
Well & Treatment Structures, sitework, hydro., etc.		\$200,000
Westchester Ave Well Site to Trinity Pass	3,100	\$320,000
Trinity Pass - South of Westchester Ave.	1,200	\$90,000
Trinity Lane	950	\$67,000
Service Connections (13)	3 N	\$50,000
OCITIOO COMITOCIONO (19)	TOTAL:	\$802,000

Scenario 4: INTERCONNECTION (Moderate/High MTBE Homes)

DESCRIPTION	LENGTH ESTIMATE
Laurel Rd. to Ponus St. to Trinity Pass to Westch. Ave.	11,100 \$1,050,000
Trinity Lane	950 \$67,000
Westchester Ave West of Trinity Pass to Fire House	720 \$85,000
Services (13)	\$50,000
	TOTAL: \$1,252,000

SUMMARY	
DESCRIPTION	Estimate
Scenario 1: GROUNDWATER SUPPLY (Detected MTBE Homes)	\$1,132,000
Scenario 2: INTERCONNECTION (Detected MTBE Homes)	\$1,522,000
Scenario 3: GROUNDWATER SUPPLY (Moderate/High MTBE Homes)	\$802,000
Scenario 4: INTERCONNECTION (Moderate/High MTBE Homes)	\$1,252,000

See cost notes from 5/12/97 letter to Shell Oil



1998 Dec. 9, Agreement between BHC and Shell to prepare bid ready documents and an estimate for water main to Scotts Corners. The permitting process has not been addressed. It also contains a list of properties to be served.

KEANE & BEANE, P.C.

ONE NORTH BROADWAY

EDWARD F. BEANE
DAVID GLASSER
RONALD A. LONGO
RICHARD L. O ROURKE
LAWRENCE PRAGA
JOEL H. SACHS*
STEVEN A. SCHURKMAN*
JUOSON K. SIEBERT

WHITE PLAINS, NEW YORK 10601 (914) 946-4777 TELEFAX (914) 946-6868

THOMAS F. KEANE, JR.

STEPHANIE L. BURNS**

JOSEPH A. OCTRAGLIAO

FREDERIC B. EISMAND

DONNA E. FROSCO**†

LANCE H. KLEIN**

PATRICK J. O'SULLIVAN

FRANCES M. PANTALEO

NICHOLAS M. WARO-WILLIS***

"ALSO ADMITTED IN FL
""ALSO ADMITTED IN MA

QALSO ADMITTED IN CT
TALSO ADMITTED IN DC 4 CA

December 9, 1998

OF COUNSEL
PETER A. BORROK*

JOHN F. BURKHARDT

ERIC F. JENSEN

VIA UPS OVERNIGHT

Mark Weyman, Esq. Anderson Kill & Olick, P.C. 1251 Avenue of the Americas New York, New York 10020-1182

Re: BHC Company, Town of Pound Ridge Water Supply

Dear Mark:

I am pleased to enclose an executed copy of the Agreement between BHC and Shell Oil to prepare bid-ready documents and a cost estimate to install a water main to serve the Scots Corners section of Pound Ridge. I also enclose a copy of the transmittal letter from Peter B. Galant, P.E., BHC Company Director of Engineering.

Thank you for your consideration.

Very truly yours,

Pidhard I O'Paur

ROR/mq Enclosure (s)

cc: Peter

: Peter B. Galant, P.E. BHC Company; Hon, Joy Simpkins (w/o

Hon. Joy Simpkins (w/o encl.); Caesar Manfredi, P.E. (w/o encl.); Timothy Eidle, Esq. (w/o encl.);

James J. Sullivan, Esq.

Town Attorney, Town of Pound Ridge

KEANE & BEANE, P. C. Mark Weyman, Esq. December 9, 1998 Page 2

Addresses for cc's:

Peter Galant, P.E.
Director of Engineering
BHC Company
600 Lindley Street
Bridgeport, Connecticut 06610-5243

Hon. Joy Simpkins
Supervisor
Town of Pound Ridge
Town House
179 Westchester Avenue
Pound Ridge, New York 10576-1743

Ceasar Manfredi, Esq.
Water Quality Unit
NYSDEC, Region 3
200 White Plains Road
Tarrytown, New York 10591-5805

Timothy Eidle, Esq.
NYSDEC
New York State Department of
Environmental Conservation
Division of Legal Affairs
50 Wolf Road, Room 638
Albany, New York 12233-1500

James J. Sullivan, Esq.
Town Attorney
Town of Pound Ridge
Town House
Westchester Avenue
Pound Ridge, New York 10579



Mr. Richard L. O'Rourke, Esq. Keane & Beane, P.C. One North Broadway, Suite 700 White Plains, NY 10601

December 2, 1998

Re: Scott's Corners Water Supply

Dear Rick:

Enclosed are two executed copies of the agreement between BHC and Shell Oil to prepare bid ready documents and a cost estimate to install water mains to serve the Scott's Corners section of Pound Ridge.

It is my understanding that the bid documents and cost estimate that we are to prepare will be utilized by the parties involved to make a go/no go decision regarding the provision of public water supply to this area. As discussed at our meetings, there is a considerable amount of work to be done after that decision is made before construction of the system can begin, including:

- Creation of a New York subsidiary to Aquarion Company to own and operate the system
- Satisfactory agreement between the New York State Department of Environmental Conservation (DEC) and the Aquarion subsidiary to proceed with construction
- Obtaining all necessary approvals in New York including; DEC, Westchester County Health Dept, NY State Dept. of Health and the New York State Public Services Commission
- Obtaining all necessary approvals in Connecticut including; Department of Public Utility Control, Department of Public Health design approval and sale of excess water approval, potential Department of Environmental Protection diversion and stream crossing permits.

BHC will work to identify these permit requirements during the project design, but will not apply for any permits until the project is authorized. The time period to receive these permits is generally out of BHC's control and is difficult to estimate at this time. However, everyone should realize that the permit timeframe may be significant (greater than 1 year). While there is much to be accomplished, I don't foresee any insurmountable obstacles at this time.

Page 2 Mr. Richard L. O'Rourke, Esq. November 16, 1998

Please forward the enclosed contracts to Shell Oil, as necessary. I am looking forward to successful completion of this challenging project.

Sincerely:

Peter B. Galant, P.E. Director of Engineering

Enclosures

cc: Hon. Joy Simkins - Town of Pound Ridge (w/o enclosure)

Cesare Manfredi, PE – NYDEC (w/o enclosure)

Timothy Eidle, Esq. - NYDEC (w/o enclosure)

Mark Weyman, Esq. - Anderson Kill & Olick (w/o enclosure)

James Sullivan, Esq. - Town of Pound Ridge (w/o enclosure)

AGREEMENT

This Agreement is made this 3 day of November, 1998 between Shell Oil Company ("Shell") and BHC Company ("BHC").

WHEREAS, the New York State Department of Environmental Conservation ("DEC") is considering the installation of a water system to serve certain properties located in the Town of Pound Ridge, and

WHEREAS, it is desirable to prepare "bid ready documents" in the event that the DEC determines to proceed with the installation of such a water system, and

WHEREAS, the parties hereto are willing to assist the DEC to expedite its considerations by this Agreement to prepare such bid ready documents,

NOW, THEREFORE, it is hereby agreed as follows:

- 1. BHC shall perform all services necessary to prepare bid ready documents for a construction of the water system including:
 - a. 1 inch equals 40 foot survey of the pipe line route with 2 foot contours;
 - b. drilling test holes at approximately 100 foot intervals to determine the depth to bedrock;
 - c. inspect service locations to determine size, routing and location of meters;
 - d. determine expected pressures at each service connection;
 - e. coordinate with local and state authorities regarding permits and pavement requirements for construction;
 - f. prepare plans, specifications and bid documents necessary to obtain bids to furnish all necessary labor, material and equipment

NY2-154490.3

- to construct the proposed water system; and
- g. provide two sets of final documents for review and comment.
- 2. The water system for which the bid ready documents will be prepared will include:
 - a. approximately 11,100 feet of pipe line along Laurel Road to Ponus Street to Trinity Pass to Westchester Avenue;
 - b. approximately 950 feet of pipe line in Trinity Lane;
 - approximately 1,500 feet of pipe line in Trinity Pass, north of Westchester Avenue;
 - d. approximately 500 feet of pipe line in Westchester Avenue east of Trinity Pass;
 - e. approximately 720 feet of pipe line in Westchester Avenue west of Trinity Pass;
 - f. a meter pit at the New Canaan/Pound Ridge line to meter water sales from BHC Company to the new water company to be formed in Pound Ridge;
 - g. installation of the remote reading water meters; and
 - installation of service line from main to curb valve located at property line.
 - service connections. The DEC is considering whether connections should be made for the properties lised on Exhibit "A" hereto.

 It is specifically understood and agreed that the list annexed as Exhibit "A" is non-final and non-binding. The inclusion of any property on Exhibit "A" should not be viewed as an indication that such property will be connected to the water system.
 - 4. The bid ready documents shall be delivered for review and comment as follows:

For New York State Department of
Environmental Conservation
Timothy Eidle, Esq.
New York State Department of Environmental
Conservation
50 Wolf Road
Albany, New York 12233

For Shell Oil Company
Mark L. Weyman, Esq.
Anderson Kill & Olick, P.C.
1251 Avenue of the Americas
New York, New York 10020

- 5. BHC shall arrange for a professional cost estimator to provide a conceptual/preliminary estimate for the cost to construct the water system which is the subject of the bid ready documents.
- 6. Shell agrees to pay BHC for the work required by this Agreement as follows:
 - a. BHC shall be paid at its usual and customary rates for its services and expenses, up to a maximum of \$32,000.
 - b. In addition, BHC shall be reimbursed for the costs incurred for a professional cost estimator to provide a cost estimate for the proposed water system, up to a maximum of \$5,000.
 - c. BHC shall furnish to Shell and the DEC reasonable documentation for its services, expenses and costs.
 - d. BHC shall be paid for its services, expenses and costs within thirty (30) days of the date proper documentation therefor has been delivered, but in no event sooner than thirty (30) days of BHC's delivery of bid ready documents to Shell and the DEC.
 - 7. BHC shall complete the work required by this Agreement (including providing a cost estimate) within 120 days of the execution of this Agreement by Shell which 120 days shall not include the period of review and comment set forth in

paragraph 4 of this Agreement. The cost estimate shall be provided as soon as it is available but in no event later than 120 days from the execution of this Agreement.

BHC Company

By:

Jame: Charky V. Firlette

Title: Senior Vice Plendat & COO

Shell Oil Company

By:

Stephen R. Shaw General Manager - Retail

NY/NJ Region

POUND RIDGE SITES UNDER CONSIDERATION FOR CONNECTION TO PUBLIC WATER

Westchester Avenue	Trinity Lane	Lower Trinity Pass	Trinity Pass
54 Westchester Avenue	8 Trinity Lane	6 Lower Trinity Pass	4 Trinity Pass
56 Westchester Avenue	10 Trinity Lane	8 Lower Trinity Pass	7 Trinity Pass
57 Westchester Avenue	14 Trinity Lane	10 Lower Trinity Pass	10-12 Trinity Pass
60 Westchester Avenue	18 Trinity Lane	15 Lower Trinity Pass	15 Trinity Pass
65 Westchester Avenue	22 Trinity Lane	17 Lower Trinity Pass	16 Trinity Pass
66 Westchester Avenue	25 Trinity Lane	22 Lower Trinity Pass	17 Trinity Pass
67 Westchester Avenue	26 Trinity Lane	23 Lower Trinity Pass	21 Trinity Pass
68 Westchester Avenue		24 Lower Trinity Pass	23 Trinity Pass
69 Westchester Avenue		26 Lower Trinity Pass	25 Trinity Pass
70 Westchester Avenue		27 Lower Trinity Pass	26 Trinity Pass
71 Westchester Avenue		35 Lower Trinity Pass	27 Trinity Pass
72 Westchester Avenue		37 Lower Trinity Pass	29 Trinity Pass
73 Westchester Avenue	i.		30 Trinity Pass
74 Westchester Avenue			31 Trinity Pass
76 Westchester Avenue	2.5		
77 Westchester Avenue			
78 Westchester Avenue		Di	
79 Westchester Avenue			
80 Westchester Avenue			
81 Westchester Avenue			
83 Westchester Avenue			

85 Westchester Avenue

87 Westchester Avenue

89 Westchester Avenue

1999 Nov. 23: Letter indicating the New Canaan would oppose any street openings that are required for the BHC Pound Ridge Water Supply Project.

June 22 1999: Letter from BHC to Keane and Beane regarding an estimate for the work for a pipeline at the cost of \$2.1 million and a ground water source for Pound Ridge from wells at \$500,000. The proposed well location is in a wetland. Permissions and permitting not addressed.

June 14, 1999 Letter from New Canaan selectman to Joy Simpkins, vague denial (of project?). May 4, 1999 Meeting Notes from New Canaan and Pound Ridge representatives resulting in denial of project based upon New Canaan not issuing permits. A water line might cause cause "downzoning" of that area of New Canaan. This superseded discussions about repaving costs which were also discussed. Sept. 8, 1999 Letter from BHC to Joy Simpkins regarding rights of BHC to put pipelines in New Canaan roads and a comment on water rates.

BHC Company 600 Undley Street Bridgeport, CT 06606-5044

Telephone 203.367 6621



RECEIVED

NOV 3 0 1999

Richard L. O'Rourke, Bsq. Keane & Beane, P.C. One North Broadway White Plains, NY 10601

November 23, 1999

Re: BHC Company - Pound Ridge Water Supply

Dear Rick:

This letter is written in response to Shell Oil's request to proceed with bidding the proposed pipeline project in order to select a contractor and apply for the street opening permit required from the Town of New Canasa. The Town of New Canasa has made clear not only its opposition to the proposed pipeline in Ponus Ridge Road but its intent to dany any permit application for the pipeline construction. BHC does not, therefore, see any reason to spend the time, money and effort necessary to proceed with the proposed project.

Please call me if you have any additional questions regarding this matter.

Sincerely,

Pety

Peter B. Galant, P.E. Director of Engineering

cc: R. Bond - Town of New Canaan

C. Firlotte - BHC





Mr. Richard L. O'Rourke Keane & Beane, P.C. One North Broadway White Plains, NY 10601

June 22, 1999

Re: BHC Company - Pound Ridge Water Supply

Dear Rick:

The following information is provided in response to questions asked at the last Pound Ridge Water Supply meeting and Caesar Manfredi's email:

- The current project cost estimate can be reduced by approximately \$160,000 if the pavement overlay is removed from the New York portion of the project. BHC would still provide 3 " trench paving that could remain as a base course for the final overlay.
- The current project cost estimate can be reduced by approximately \$115,000 if Upper Trinity Pass is deleted from the project and the NY pavement overlay remains in the project.
- Based on the above estimates, the current project cost estimate can be reduced by approximately \$240,000 if Upper Trinity Pass and the NY overlay are removed from the project.
- Bill Brennan, of J.J. Brennan Construction has indicated that his firm would construct this pipeline under BHC's annual bid contract for a not-to-exceed price of \$1,970,000 (total project approximately \$2.1 million including BHC costs). This approach assumes that only trench repair will be required in New York and that JJB will take the risk of finding the remaining savings elsewhere on the project. While I understand that NYDEC policy may not allow this type of contracting, I think the offer provides a better sense of what the ultimate project cost may be.
- The attached memorandum from Leggette, Brashears and Graham (LBG) updates the cost estimate for developing a ground water supply source in Pound Ridge to approximately \$100,000. Note that this approach does not guarantee a quantity, or quality, of water. In addition to the well costs, a treatment building/pump station would be required at the well site. Based upon recent experience, a conceptual cost estimate for this type of facility (w/o MTBE treatment) is approximately \$400,000. Utilizing J.J. Brennan's pipeline estimate of approximately \$138/ft including paving, and approximately \$,000 ft. of piping, the piping

Printed on recycled paper

Mr. Richard L. O'Rourke June 21, 1999 Page 2

construction cost estimate is \$1.1 million plus approximately \$85,000 for taps and services to the property line. The total project cost estimate, including BHC costs, is therefore approximately \$1.8 million. Please keep in mind that these costs, particularly for the treatment building, are conceptual only and may vary significantly based upon preliminary and final design. In particular, the site identified by LBG for locating the wellfield is shown as wetlands on the USGS map. The feasibility and cost implications of constructing in a wetland have not been investigated, nor have the resulting permitting requirements.

I hope this answers the cost questions raised at and after our last meeting. After your review, please distribute this information prior to our June 22 meeting.

Sincerely,

Peter B. Galant, P.E.

Director of Engineering

cc: B. Brennan - JJB

R. Furano - BHC

TOWN OF NEW CANAAN

TOWN HALL, 77 MAIN STREET NEW CANAAN, CT 06840

RICHARD P. BOND FIRST SELECTMAN TEL: (203) 972-2311 FAX: (203) 966-0309

June 14, 1999

Ms. Joy G. Simpkins, Supervisor Town of Pound Ridge Town House 179 Westchester Avenue Pound Ridge, New York 10576-1743 POUND RIDGE, HY

Dear Ms. Simpkins:

I apologize for responding so late to your note of May 14, 1999. I'm sorry that we could not be of any help. We are continually faced with this type of problem. This coming week, we have Level 3 Communications coming to visit us about running a fiber optic cable from the Stamford end of town to the opposite side of town. Again, they want to tear up the roads to do this.

It would be interesting to know the results of your "contaminate water group's" meeting.

Sincerely,

Richard P. Bond First Selectman

RPB:dh

TO:	JOY				
DATE:_	5/21/99	T IME	: :	11:25	AM
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	Trinity Lar Westchester			945 ft. 180 ft.	
He will	fax us this info	ormation on	Мол	day.	

MEETING NOTES

May 4,, 1999 New Canaan Town Hall

Re: Bridgeport Hydraulics Contract Documents For The Pound Ridge Interconnection

Present:

Richard Bond, First Selectman; Frank DeNicola, Head of Public Works Department; Hiram Peck, Head, Department of Zoning and Planning;

Mort Miller, Superintendent of Highways, Town of Pound Ridge; Joy Simpkins, Supervisor, Town of Pound Ridge.

Joy Simpkins explained the reasons she had requested this meeting. They are:

- 1. To review the paving requirements of the Town of New Canaan and to request relief from the need to repave an entire roadway if a method can be used to repave the waterline trench effectively to achieve satisfactory results.
- 2. To review the requirement for police traffic control at the scene of construction when "flagmen" can do the job of protecting workmen and assisting drivers around the construction.

A two-hour discussion ensued, including the dismay of all present that the price for paving the 8-9 thousand feet of trench in Connecticut was so high, approximatily \$811,800. I believe the 25 million estimated for pipe and paving is for the entire length of the trench, both in Connecticut and New York and the figure of \$990,000., or 55% of that total is for paving the entire roadway, 11,000 feet.

Evidently New Canaan has been "burned" by partial paving projects before and they all held fast to their requirement that if "you put a hole in our road, you have to replace the road."

On the subject of Police Protection at a construction site, New Canaan's contract with their Police Department requires them to hold fast to this agreement. They did say that very often, in fact, more often than not, police officers are not available for this type of duty and in that case, flagmen are allowed to hold the jobs.

However, all of the above was beside the point which is, New Canaan will not issue permits to Bridgeport Hydraulics to install a waterline through their property under any circumstances! They have zoning concerns which appear to override all other considerations. They believe the possibility of their residents being able to connect to a water line will put enormous pressure on their zoning controls in that area and force

unwelcome downzoning on the Town. (This fear should be familiar to Pound Ridge residents.)

This news was devistating to me and to Mort. Surely there must be something missing here. Is there a requirement somewhere which gives public utilities leeway to operate when public health is involved? Is there a way to prevent access by New Canaan residents to the piped water except in case of emergency? Surely BHC must have some card to play here. Why would they go to all the trouble and expense of designing the system and engineering the specs if they did not know they had certain rights to proceed.

These are answers we need to determine at the May 19 meeting if not before.

I will call Marc Moran and Tim Eidle as promised!

Joy Simpkins

TOWN OF NEW CANAAN

RICHARD P. BOND FIRST SELECTMAN

Town Hall 77 Main Street New Canaan, CT 06840

Tel: 972-2311 Fax: 966-0309

September 8, 1999



Ms. Joy G. Simpkins Supervisor Town of Pound Ridge 179 Westchester Ave. Pound Ridge, NY 10576-1743

Re: Water Supply to Scott's Corners

Dear Joy:

This letter is written in response to your August 24 letter regarding permit procedures for constructing a pipeline between BHC's Stamford System and Scott's Corners, NY, particularly the portion of the work to be constructed in Connecticut. Although I am not an attorney, and therefore can't give a legal opinion, the following is my understanding of the approval requirements for construction of a pipeline.

BHC is required to obtain a street opening permit from the Towns in which we operate for any excavation within a Town road. In the case of a State road, the permit would be obtained from the State Department of Transportation. As a public utility, BHC has the right to appeal the denial of a street opening permit to the State Department of Public Utility Control.

In response to your second question, water rates would be based upon the cost of purchasing water from BHC (rate chart enclosed) and any incremental costs for operating the Water District. A "typical" residential customer in BHC's Stamford System currently pays approximately \$60 per quarter. The Water District rates would be higher than this by the amount of its expenses for the operating costs and debt service of the New York entity. As a point of reference, a "typical" residential customer in BHC's Eastern Division currently pays approximately \$96 per quarter.

If you have any questions on either of these topics, please call me.

Sincerely,

Peter B. Galar

Peter B. Galant, P.E. Director of Engineering

Enclosure

Mr. Richard L. O'Rourke June 21, 1999 Page 2

construction cost estimate is \$1.1 million plus approximately \$85,000 for taps and services to the property line. The total project cost estimate, including BHC costs, is therefore approximately \$1.8 million. Please keep in mind that these costs, particularly for the treatment building, are conceptual only and may vary significantly based upon preliminary and final design. In particular, the site identified by LBG for locating the wellfield is shown as wetlands on the USGS map. The feasibility and cost implications of constructing in a wetland have not been investigated, nor have the resulting permitting requirements.

I hope this answers the cost questions raised at and after our last meeting. After your review, please distribute this information prior to our June 22 meeting.

Sincerely,

Peter B. Galant, P.E. Director of Engineering

cc: B. Brennan - JJB R. Furano - BHC See Wastewater Appendix for these reports.

2000 September, Malcom Pirnie study proposal discusses regulatory issues with potable water wells and the possibility of combining them into a Community Water Supply, but wants to start over with a wastewater study.

2002 April, Folchetti study also discusses potable water solutions, water from Stamford, drilling wells and getting water from the golf course.

Pound Ridge Waste Water Task Force

Appendix C: Westchester County Health Department

9320-58 80 WESTCHESTER AVE -FIRE DEPT

P.S.D. Town of Poundridge	Date: Permit 8/19/49 Appreval
Location: Westchester Ave.	
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Owner: Poundridge Fare Depart	retment Dun Wa Street
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Builder: Louis Beccaria, RE	
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Builder: Louis Beccaria, RF House: firehouse Soil test made:	TD #1, Box 79, New Éangan, Rate:

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Separate Sewerage System Exprivate Water Supply	Pound ridge Municipality
CERTIFICATE OF CONSTRUCTION COMPLIANCE	WCDH File No. PR 91-07
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Owner found Bidge Fire Department	Lot 55,57,58 Job
Separate Sewerage System built by Gory Powell Consisting of 6x 750 Gal. Masonry, Metal Seption Lineal feet X 4x 4 width trench fri Go Other requirements	Address Grenwich Conn c Tank 48 c//eys
Water Supply Public Supply from Private Supply Drilled by	
Building Type Fire Dept Offices No. of bedrooms	Date Permit Issued 1991
Erosion Control Completed	Waived
Other Requirements	
I certify that the system(s) as listed serving the above proshown on the plans of the completed work (copies of which a standards, rules and regulations, plans, filed, and the per Department of Health. Date $2/9/95$ Certified by	re attached), and in accordance with the
Any person occupying premises served by the above system(s) may be necessary to secure the correction of any unsanitary Approval of the separate sewerage system shall become null sewer becomes available and the approval of the private wat when a public water supply becomes available. Such approva when, in the judgement of the Commissioner of Health, such necessary, said modification or change shall be done under Engineer or Registered Architect.	conditions resulting from such deage. and void as soon as a public sanitary er supply shall become null and void ls are subject to modification or change revocation, modification or change is
With proper maintenance these systems can be expected to fu	nction satisfactorily and are not likely

Date 2/495 Mark S. Rapoport, M.D., M.P.H.

Commissioner, By

Westchester County Department of Health

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WESTCHESTER COUNTY DEPARTMENT OF WEALTH - Division of Environmental Quality

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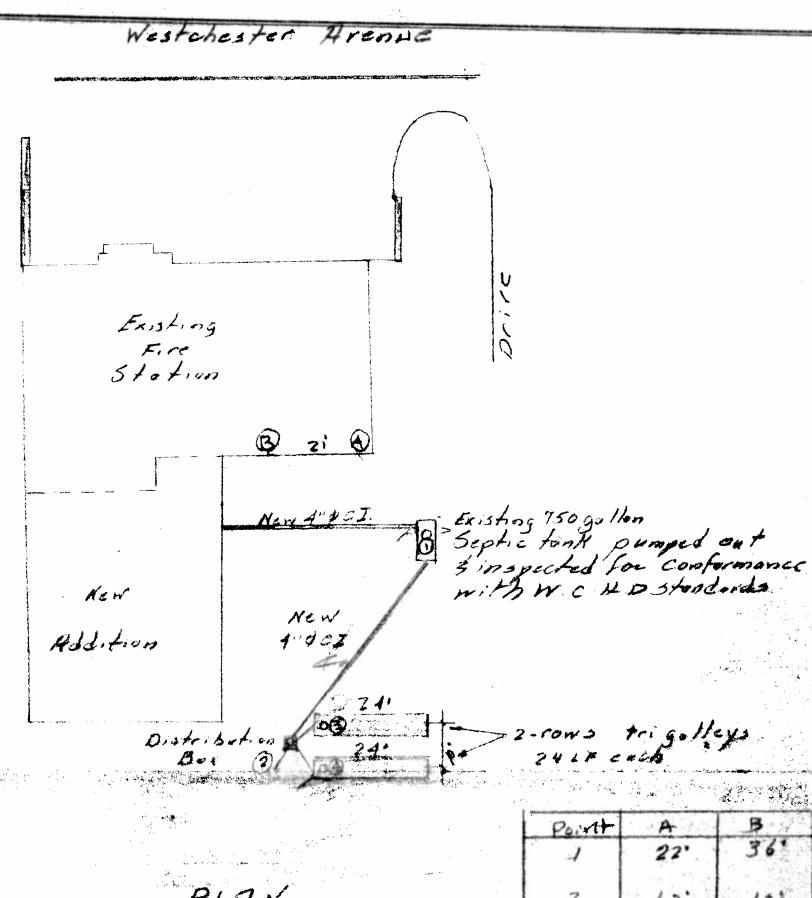
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- 1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.
- 2) Depth measurements to be made from top of hole.

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AS FINAL PLANS

DATE 2/14/95

WEST. CO. DEPT.

OF HEALTH

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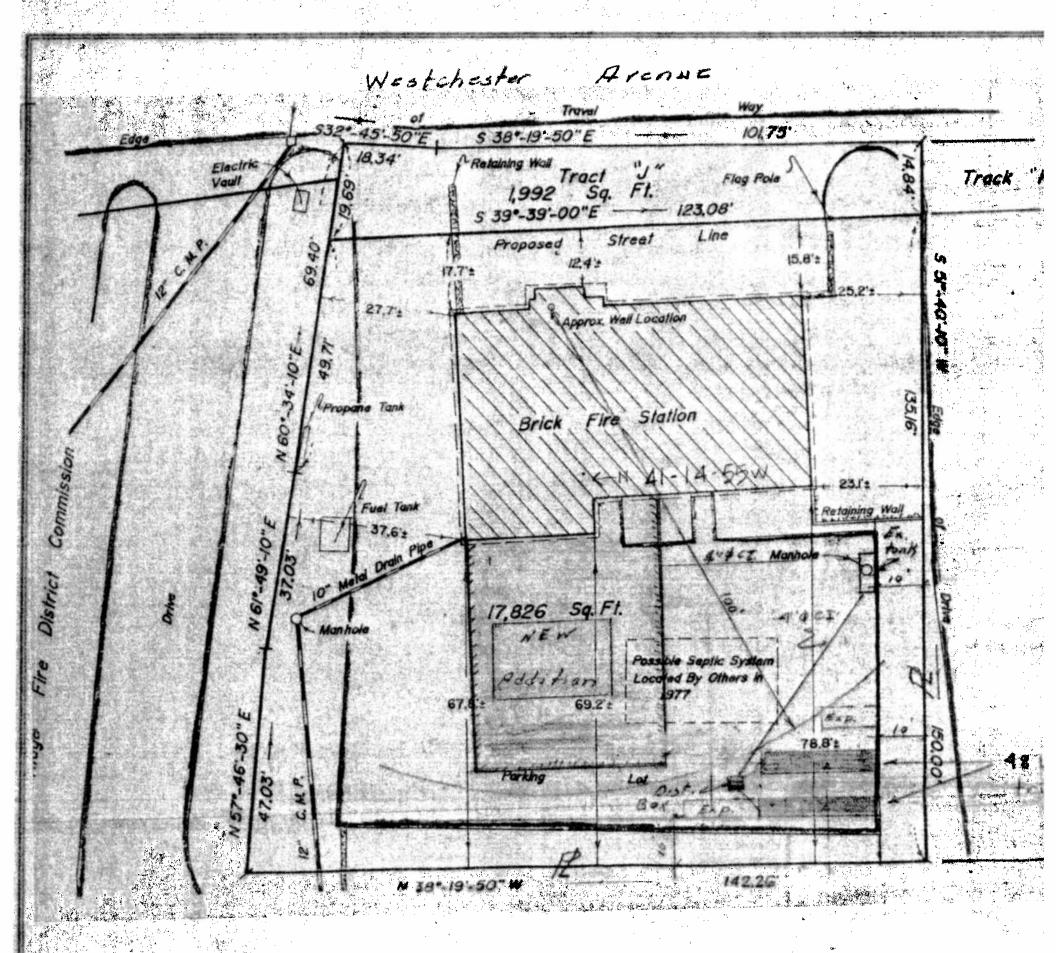
ASBULT SEWAGE DISPOSAL SYSTEM
Pound Bidge Fore District

Westchester Arense Paund Ridge, NX

SUB-DIV. T.M. NO.7- 9320 - 455

DATE 7-24-91

JOSEPH F. SULLIVAN P.E.

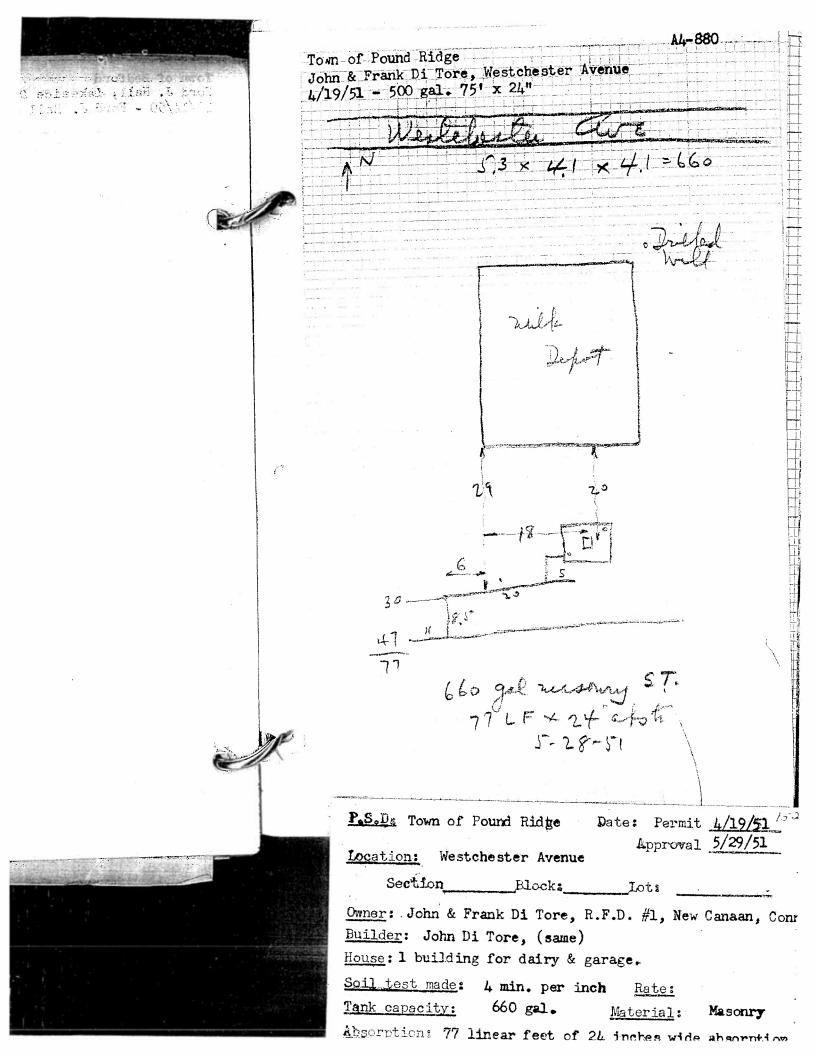


FLAN Scole 1'= 20'-0"

9320-59 78 WESTCHESTER AVE

WESTCHESTER COUNTY DEPARTMENT OF HEALTH William A. Holla, M. D., Commissioner

William A. Holla, M. D., Comm	issioner
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/n. M. Gray, P.H., A. B. C.	
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APPLICATION FOR RESTREAM	ACE DIGE
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(Number Happanana)	RACE
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5. Lot size 40 x 150 (Expansion	Building NEW
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WESTCHESTER COUNTY DEPARTMENT OF HEALTH

William A. Holla, M. D., Commissioner White Plains, N. Y.

Issued April 19, 1951

Promophingly

PERMIT FOR SEWERAGE SYSTEM

APPROVAL is hereby given pursuant to Article VII of the Sanitary Code of the Westchester County Health District to Frank Di Tore, R. F. D. #1, New Canaan, Connecticut.

to construct or provide a sewage disposal

system consisting of a 500 gallon masonry septic tank and 75 linear feet of 24 inches wide absorption trench

to serve one building for dairy & garage, owned by John & Frank Di Tore, Westchester Avenue, Town of Found Ridge, New York.

for an occupancy of

persons, provided that

- I. No portion of the system shall be backfilled or covered until inspected.

 Inspections are made during regular working hours only. Twenty-four hours' notice is required.
- II. The system shall not be used until it has been constructed in an approved manner, inspected and backfilled, and the written final approval thereof shall have been obtained from the Department of Health. (See Item VIII).
- III. Additional or more adequate facilities shall be provided whenever it is determined by the Commissioner of Health that such facilities are necessary, for which an additional permit shall be obtained.
- IV. This system shall be maintained and operated in complete conformity with rules and regulations for the protection of public water supplies, all applicable laws, local ordinances, and the provisions of the Sanitary Code, existing or hereafter enacted.
- V. When sludge and scum shall so accumulate in any tank as to occupy a depth at any point of more than one quarter of the liquid depth of the tank, they shall be removed and disposed of in accordance with the requirements of the Sanitary Code, and so as to create no nuisance.
- VI. A connection to a public sanitary sewer shall be made whenever such sewer shall become available.
- VII. This permit remains the property of the Department of Health and is revocable at any time or subject to modification or change whenever the Commissioner of Health shall deem necessary.
- VIII. It shall be the responsibility of the person obtaining this permit to deliver a true copy thereof together with a copy of the final approval to the owner of the premises served by this system before this system is placed in use.

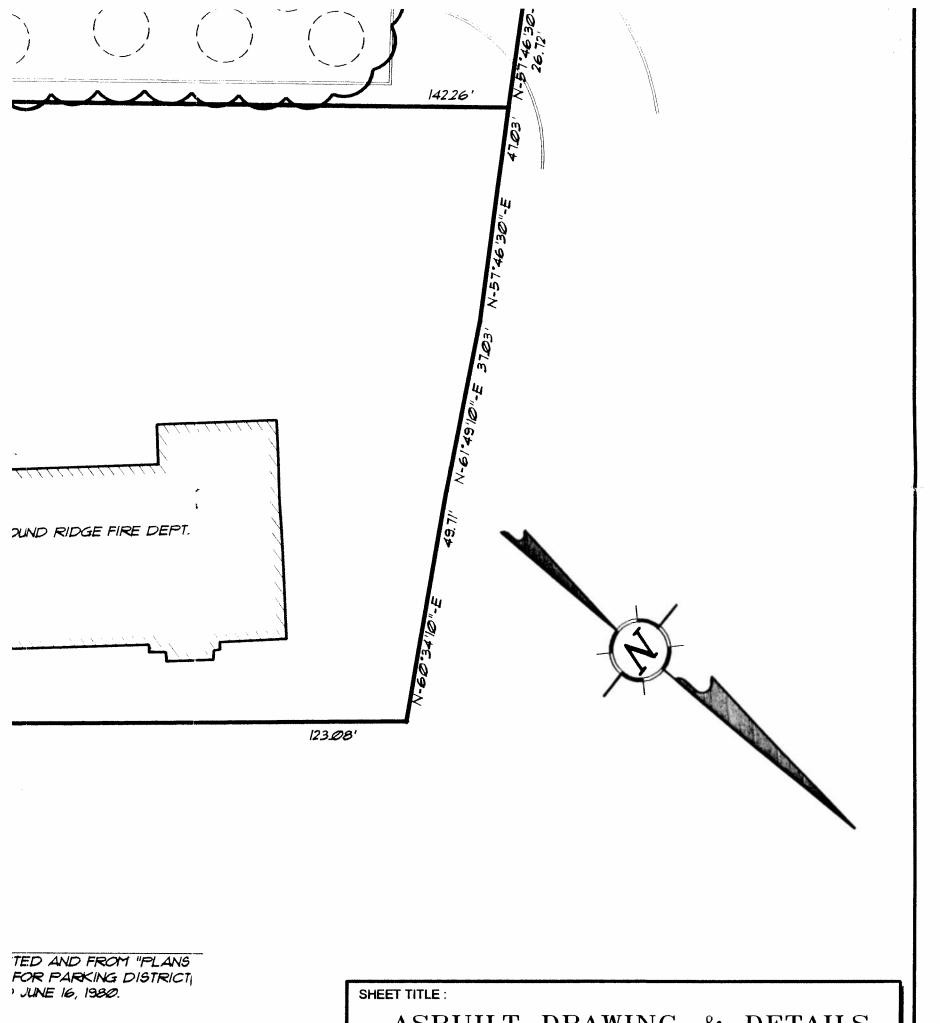
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Commissioner of Health

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9320-60 76 WESTCHESTER AVE



WANHOLE COVER OVER "D" BOX



ASBUILT DRAWING & DETAILS

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SEPTIC ASBUILT

PREPARED FOR:

ROTH ROSALIE

PROJECT LOCATION:

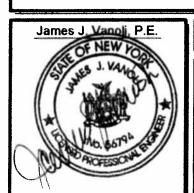
SCOTTS CORNERS WESTCHESTER COUNTY, NEW YORK

JJV, PE

Consulting Engineering Site Development

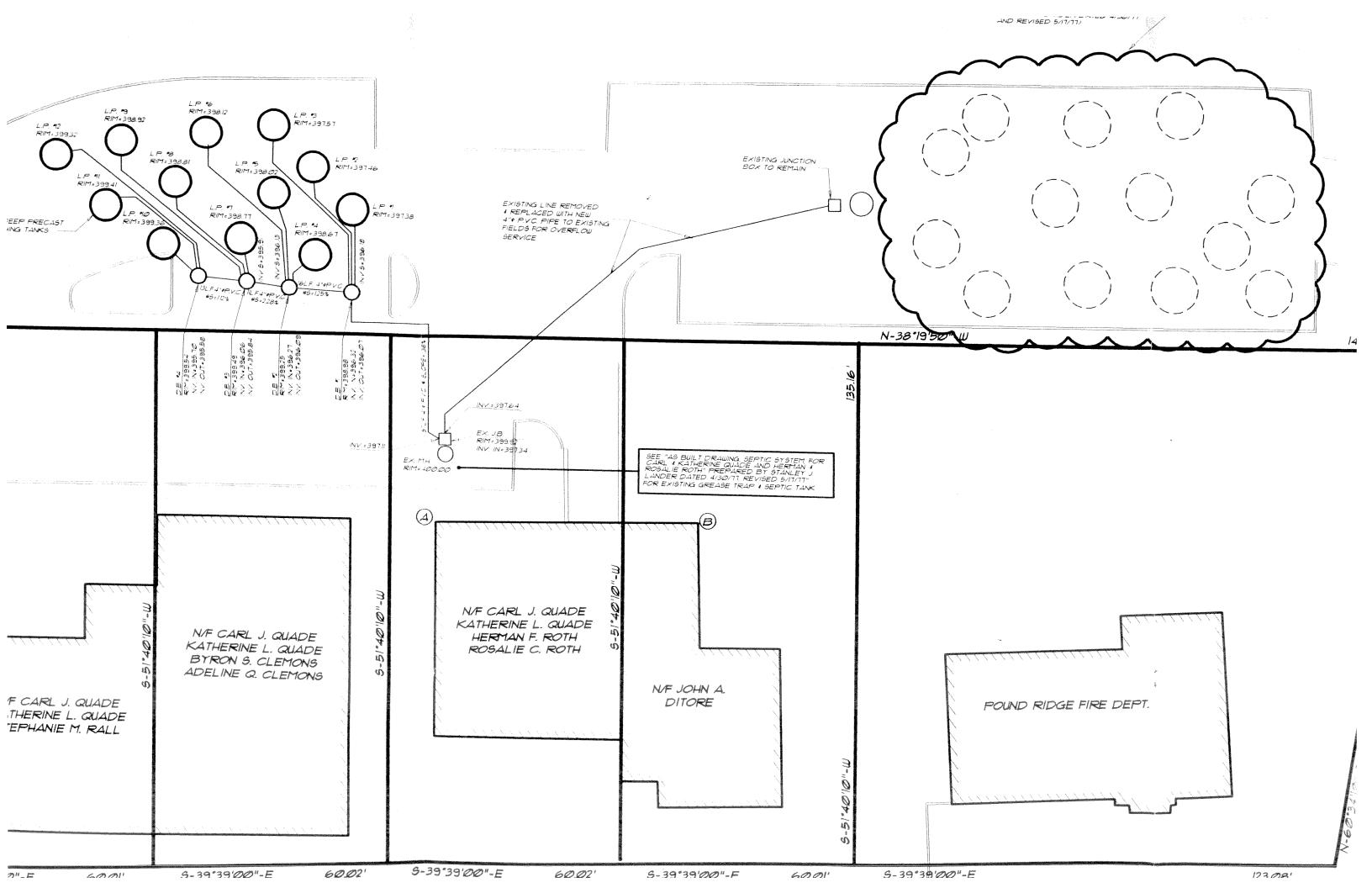
James J. Vanoli, P.E. 752 Old Kensico Road Thornwood, New York 10594

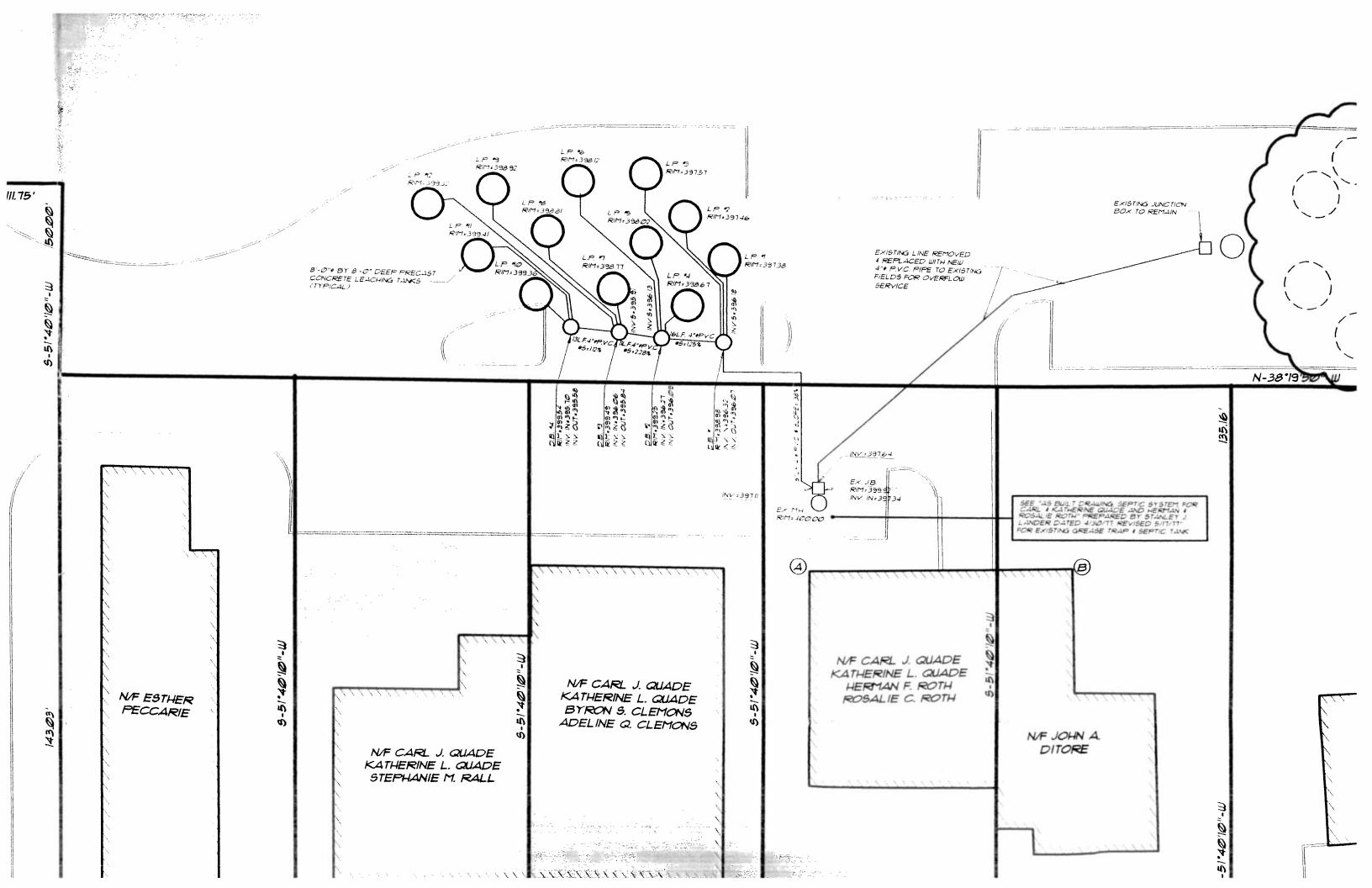
Telephone 914.769.0902 Fax 914.747.3402

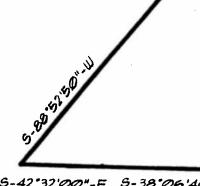


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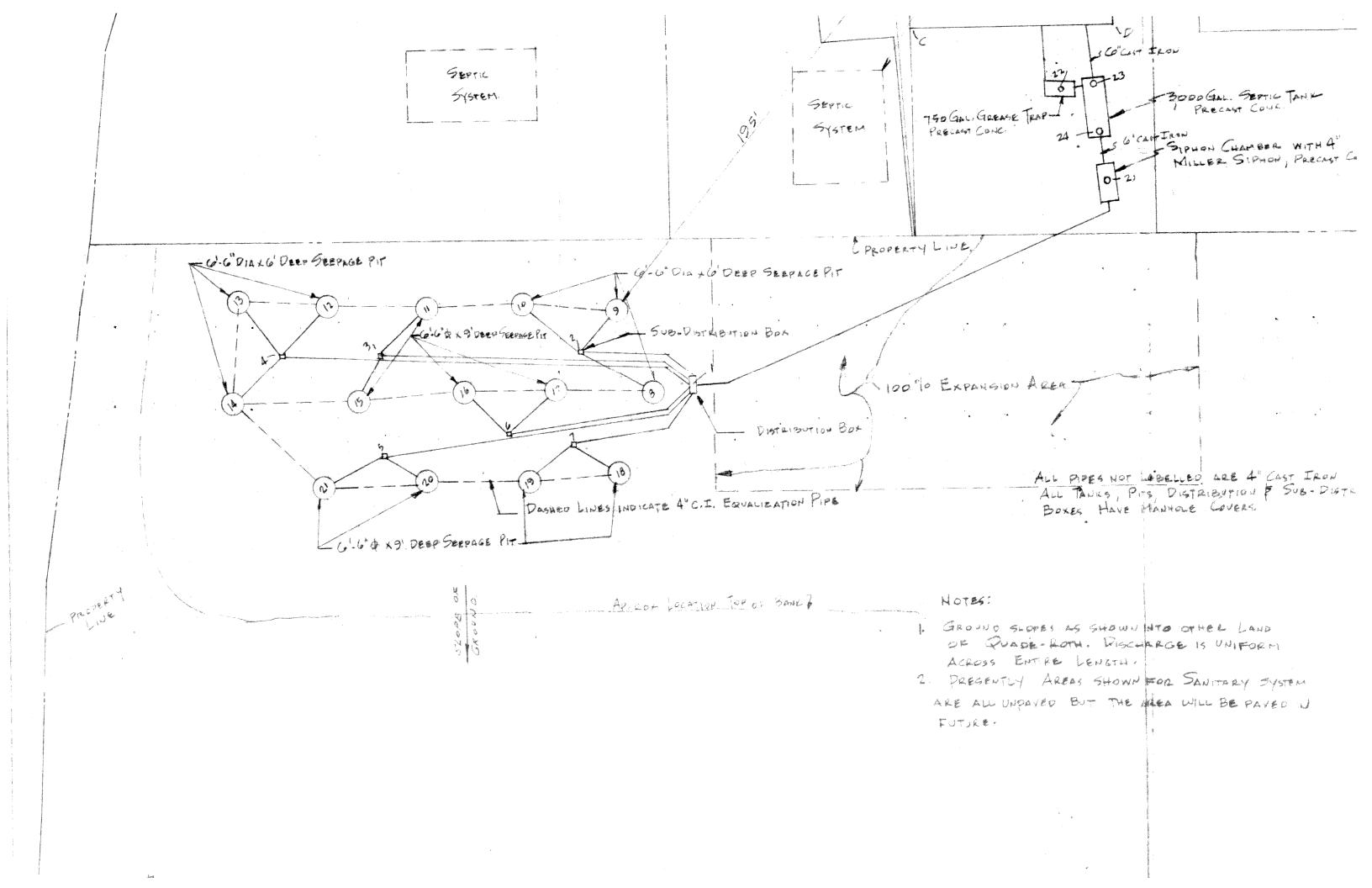
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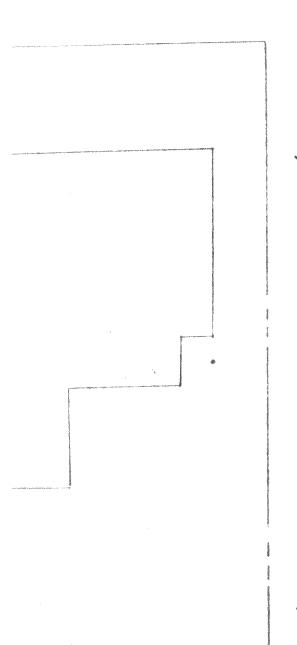
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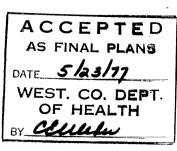
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25		ngawaran ay jan addiga ay ay ay	61	38.1,	annicaments would	
06					101-6"	52'

ACCEPTED
AS FINAL PLANS
DATE 5/23/77
WEST. CO. DEPT.
OF HEALTH
BY CLUMBER

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15	13.0	1100				
16	120	116'				
17	11113	127		,		
19	/39'	193'				
19	40	143'				
20	144	134'		. S. C.		
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23	And the second s	27	47:2	الالكاوا		
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25			61	38.7*		
74	Bear of the State of the same of the state of the same				10-6"	52





THE LOTS SHOWN HEREON ALE KNOWN AS LOTS 56460 BLOCK 9320 ON TOWN ASSESSMENT MAPS



AS EDULT DRAWING

SEPTION SYSTEM

FOR
CARL & KATHERINE QUADE

HERMAN AND ROSALIE ROTH

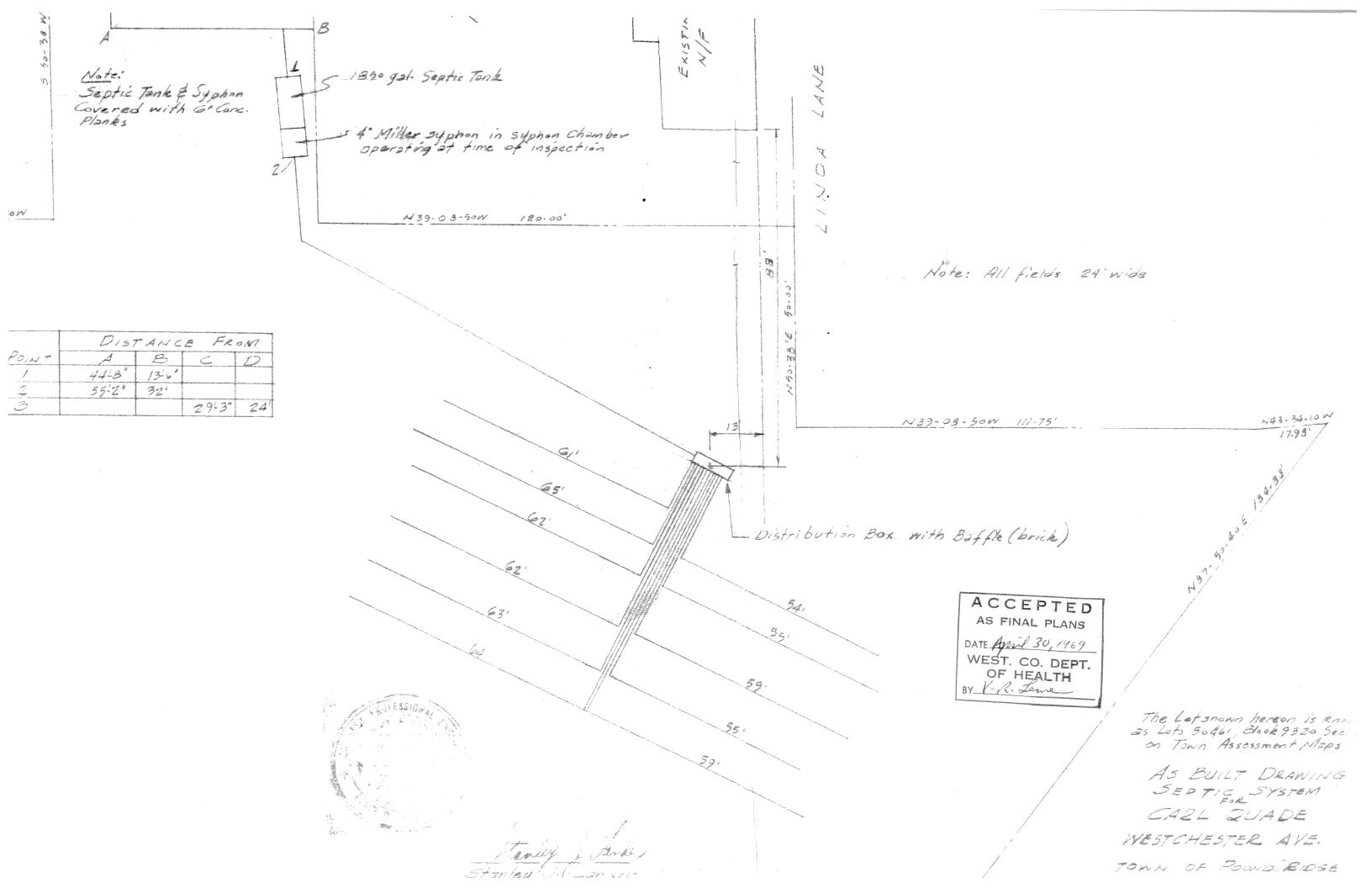
WESTCHESTER AVE

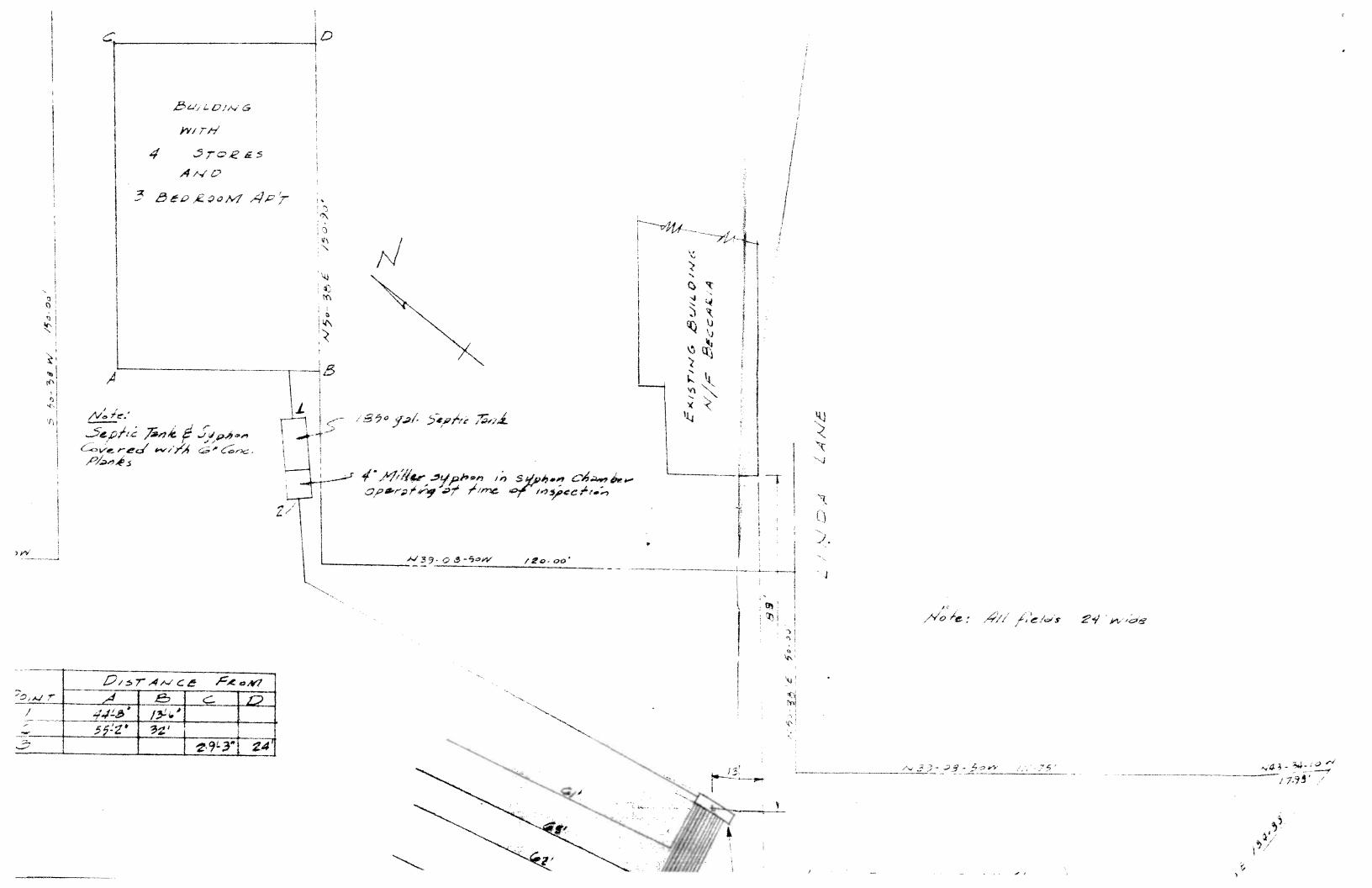
TOWN OF FROUND RIDGE

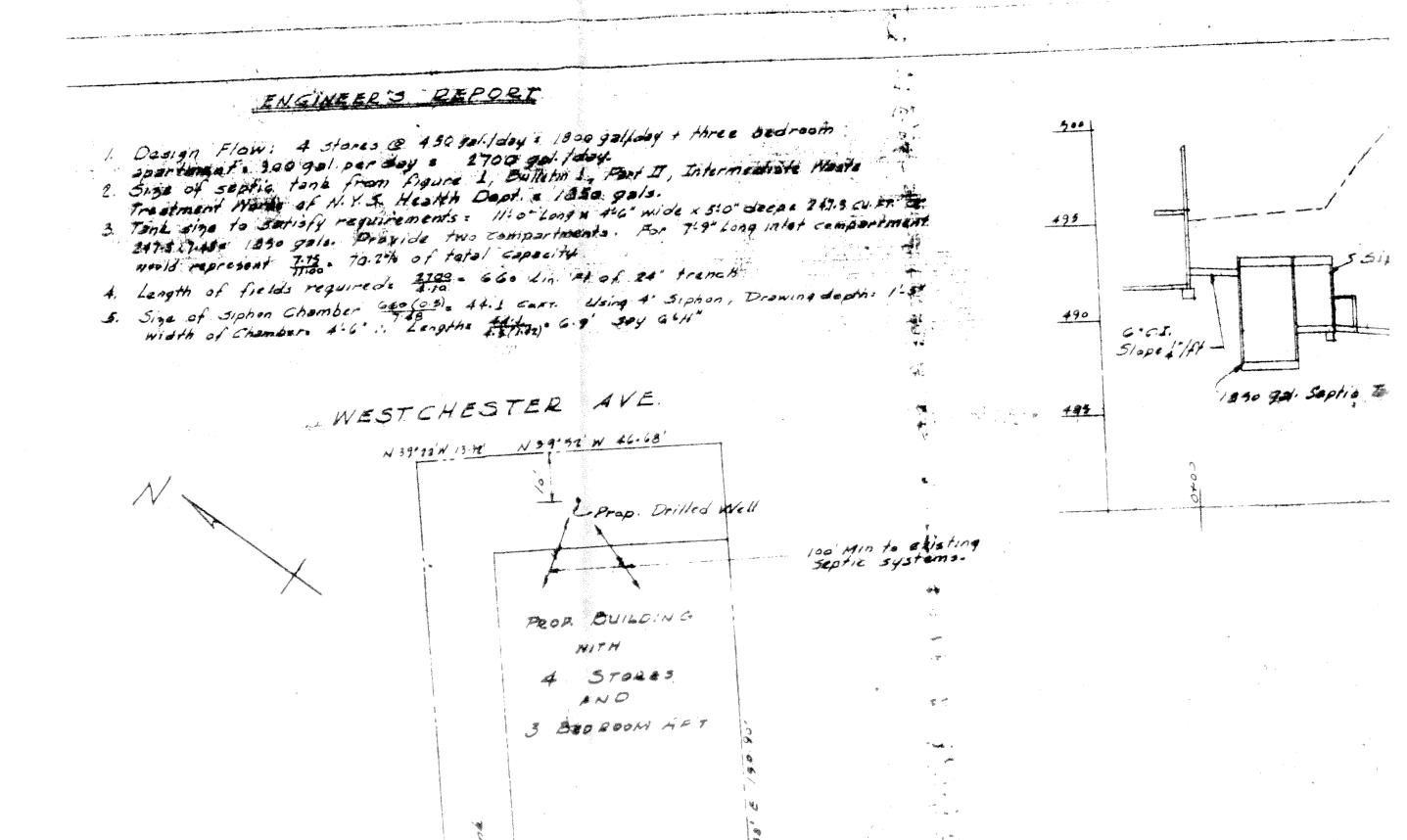
WESTCHESTER COUNTY NY

ARRIE 20 1977 REV. 5-17-77

9320-61 74 WESTCHESTER AVE







9320-63 70 WESTCHESTER AVE

9320-63 70 WESTCHESTER AVE

P.S.D. Poundridge

Date: 9/3/47

Location: Westchester Ave.

Sections

Block:

Lot:

Owner: Frank Beccaria, R.F.D. 5, Ridgefield, Conn.

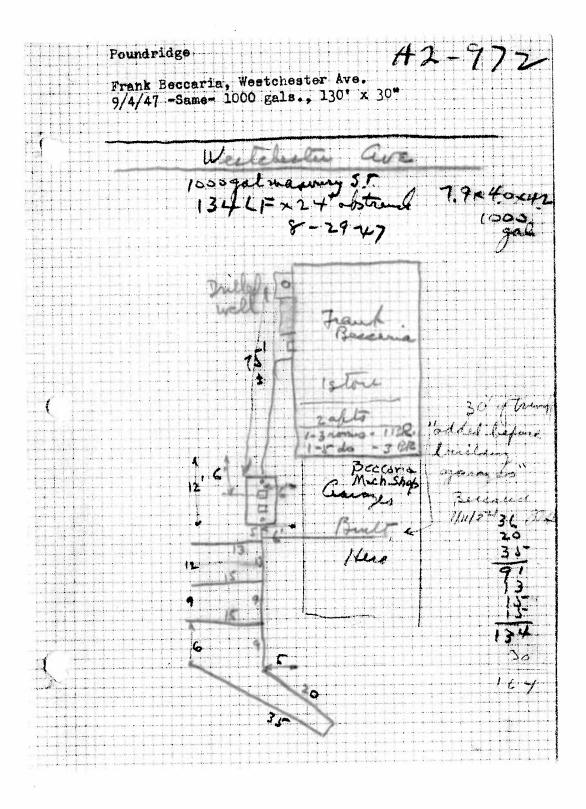
Builder: -Same-

House: 4 bedrooms and 2 bathrooms (Max.Occ. 7 persons)

Soil test mada: Reto:

Tank capacity: 1000 gallons Material: masonry
Absorption: 134 linear feet of 24 inches wide xxxxx
absorption trench.

Approval issued: Sept. 4, 1947 Sketch-Book: A2-972



WESTCHESTER COUNTY DEPARTMENT OF HEALTH

William A. Holla, M. D., Commissioner

Dewers Porudidge

White Plains, N. Y.

PERMIT TO PROVIDE A SEWAGE DISPOSAL SYSTEM

Application having been duly made to the County Commissioner of Health as required by Article II of the Sanitary Code of the Westchester County Health

District, permission is hereby given to Connecticut, for the constr Gennecticut, for the construction or provision of a sewage disposal system consisting of a 1000 gallon mosonry septic tank and 130 linear feet of

30 inches wide absorption trench,

to serve a house owned by Frank Beccuria, Westchester Avenue, Town of Foundridge, (Maximum Oscupancy - 7 persons) New York

subject to the following conditions:

- I. That this department shall receive due notification and be afforded an opportunity to inspect the system before any portion is backfilled or covered.
- II. That this system shall not be used until the written final approval thereof shall have been obtained from the Department of Health.
- III. That such sewage disposal system in 1 be constructed in complete conformity with the application data and plans as approved or with approved amendments thereto. Any changes in this system must be approved.
- IV. That such system shall receive only the sewage or wastes from the structures or premises covered by the spermit.
- V. That such system shall be so maintained and operated as not to expose sewage or sludge, or create a condition of nuisance.
- VI. That this permit shall not be construed to invalidate any rule or regulation enforceable by any local authority having jurisdiction.
- VII. That all duly enacted sules and regulations for the protection of water supplies shall be compared th.
- VIII. That a connection to the public sewer shall be made as soon as such is available.
- IX. That whenever it is determined by the Commissioner of Health that additional or more adequate sewage disposal facilities are necessary, such facilities shall be provided, plans for which shall first be submitted to and receive the approval of the Department of Health.
- That whenever the sludge and scum shall so accumulate in any settling tank as to occupy together at any point more than one-fourth of the distance between the bottom and the flow line, they shall be removed.
- That whenever sludge and scum is removed from any settling tank or any part of the system, it shall be done in such a manner as to cause no nuisance and the material disposed of by burial in some remote place at least 250 feet from and house, road, well, spring, stream or other body of water, and covered with not les than 6 inches of earth in such a manner that it will not flow or be washed by rain or melted snow or other means over the surface of the ground or into any well, stream, spring or other body of water.

XII. That this permit shall be revocable at any time or subject to modification or change when in the judgment of the Commissioner of Health such revocation modification or change shall become necessary.

September 3, 1947. Date: HIG: ME

THE OWNER OR HIS AGENT MUST RECEIVE THIS PERMIT OR A COPY THEREOF

ec: Mr. Everett B. Knapp, Town Clerk.

rion, Director, Director Willer of the wind of the will of the wil

COUNTY OF WESTCHESTER
DEPARTMENT OF HEALTH

William A. Holla, M.D., Commissioner County Office Building White Plains, New York

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File.		•	٠	٠			•	٠	•	*	₩.	*	•
Permit								•	٠		÷		٠
Inspecte	be		b	y			*						
Final Ap													
Sketch 1													

APPLICATION FOR SEVAGE DISPOSAL FERMIT (See Rules and Regulations - Form S.D. 22.)

То	the Commissioner of Health:	Date
	Application is hereby made for a permit to construct	a sewage system to
	(Number, type and use of building to be cerning which the following information is submitted:	
1.	Owner Frank Beccaria Mail Address R: Note: Owner must receive permit and approval. Ch	eck here, int expla cobless.
2.		
3.	Tax Map Location: Section Block. 225 Lot	
4.	Construction: New, Replacement, Proposed Future Bui	iding
5•	Lot area 40 X /5.0. No. of rooms Bedrooms	um future occupancy
6.	Watershed on which system is located	70.1. Adjacent wells 300.1.1
7.	Daily Sewage Flow: No. of persons x 75 gals.=	gals. per day
8.	Settling treatment, Septic tank: liquid capacity bel Material manning inside dimensions: length. 8 wid	ow flow line. 10.0.2.2
	Note: Liquid capacity of tank shall be not less that day with a minimum of 500 gals.	
9.	Type of soil: clay, loam, sand, boulders, rock; sur drainage: good, fair, poor. Absorption test:minutes per inch drop*	Absorption rate
		(II om casio)
	Note: Except in clay soil, a rate of 1 gal. per sq. shall be used unless a higher rate is establis	SHERL DA SOTT ACCA.
10.	Absorption area: 32.5	rom table bottom area.
11.	Absorption treatment, Trenches: 3.0. inches wide; distributing tile; Gravel. 2 Cu. yards, to depth of inches bel Leaching pits: number outside dimensions wall area below flow line material Absorption area: trenches leaching pits	low bottom of pipe depth below flow linebuilt-up, rock-filled.
	Signature: Frank Deccaria	Title: Contractor
	(By owner, builder, or officer of sewage of Mail Address: R	Gefresd Comm!
Ske	etch required on reverse side or on attached sheet sho	owing plan with general

Sketch required on reverse side or on attached sheet showing plan with general relation of dwelling and property boundaries, wells and streams to system and arrangement of absorption facilities, together with all other pertinent data, including details of grease trap, manholes, diversion gates, siphon, curtain drains, special structures and unusual features. Failure to secure permit before construction or final written approval of the system before using is a violation of the County Sanitary Code and is a mislemeanor.

9454-10 73 WESTCHESTER AVE

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<u>ystem</u> .	Pount Ret	
ERTIFICATE OF COMPLETION	Aunicipality	re .
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mer Wellower Derechement Co		
The state of the s	Block	
stem built by	Lot Job #	
ilding type Borok & Starten Permit Issued 27 Jan 5	W. C. D. H. File 283-1	> ,
riding type 170 Permit issued 27 form 3 retem consists of 270 Gal. masonry, metal septic tank	5/2 Lineal feet X 2 Width	trench unit
		13
The separate sewage system serving the above premises was constructed essentially in accordance with plans file	ed with this Department and the terms of a Permi	t issued
on the above date and otherwise as shown on plans of the completed work, copy of which is attached. Any promptly take such action as may be necessary to secure the correction of any unsanitary condition resulting fr	rom such usage. This approval is revocable as so	on as a
public sanitary sewer shall become available and is subject to modification or change when in the judgement of or change shall be necessary. TRUE COPIES OF THE PERMIT, PLAN OF THE SYSTEM AND OF THIS CERT	TIFICATION, AND ANY CHANGES THEREOF SHI	ALL DE
MAINTAINED ON THE PREMISES AT ALL TIMES AND SHALL BE SHOWN TO ANY REPRESENTATIVE Of With proper maintenance this system can be expected to function satisfactorily and is not likely to create	e an unsanitary condition.	EMAND.
whent to hear of friend w	ules evel in yer	7.
(数) 可能区域。		
william A. Brumfield Jr., M. D., Commissioner By	ak. Vern	
	Jan Cry.	
		Charles Street, Street
parate Sewage System •		
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0031	Pour Res	
0031	Municipality Section-Word	
0031		
PPLICATION & CONSTRUCTION PERMIT Cated on WESTCHESTER AVE PROPERTY OF Address 216 Elimst N.C.		
PPLICATION & CONSTRUCTION PERMIT Cated on WESTCHESTER AVE DANGED TO Address 216 E Lings N. C. be constructed by Address	C/N Block	FILE COPY
PPLICATION & CONSTRUCTION PERMIT Cated on WESTCHESTER AVE PROPERTY OF Address 216 Elimst N.C.		HIE COPY
PPLICATION & CONSTRUCTION PERMIT rated of Wastername Address 216 Eurost N.C. be constructed by Address	C/N Block	HIE COPY
Building Type STEM CONSISTING OF	Lot Job #	HIE COPY
PPLICATION & CONSTRUCTION PERMIT Total of Manager Man	Lot Area.	
PPLICATION & CONSTRUCTION PERMIT Total of State	Lot Area width trench. d system and hereby guaranty to the owner, his successors,	
PPLICATION & CONSTRUCTION PERMIT Cated on Manager Man	d system and hereby guaranty to the awner, his successors, ordance with the standards, rules and regulations of the Wessers to North to older	heirs, or
PPLICATION & CONSTRUCTION PERMIT Address Address Building Type STEM CONSISTING OF gal mosonry, metal septic tanks Ther requirements Address have be constructed by lineal feet x Ther requirements Address have be a septic tanks The represent that I am wholly and completely responsible for the location, material, construction and drainage of the proposed signs, that the system above described will be constructed as shown on the approved plan, or approved amendment thereto, and in accounty to be approved to the construction of the construction of the constructed by me during the period of two years immediately following the date of construction of the c	d system and hereby guaranty to the awner, his successors, ordance with the standards, rules and regulations of the Wessers to North to older	
PPLICATION & CONSTRUCTION PERMIT Address Address Building Type STEM CONSISTING OF gal. masonry, metal septic tank: Sineal feet x Their requirements Address TARANTY: I represent that I am wholly and completely responsible for the location, material, construction and drainage of the proposed signs, that the system above described will be constructed as shown on the approved plan, or approved amendment thereto, and in accompletely responsible for the location, material, construction and drainage of the proposed signs, that the system above described will be constructed as shown on the approved plan, or approved amendment thereto, and in accompletely responsible for the location, material, construction and drainage of the proposed signs, that the system constructed will furnish a written guaranty to the owner, his successors, heirs, or assigns, addition any part of said system constructed by me during the period of two years immediately following the date of construction of the proposed specific proposed amendment theretory and in accompletely responsible for the location, material, construction and drainage of the proposed signs, that the system constructed by me during the period of two years immediately following the date of construction of the proposed specific proposed amendment theretory and in accompletely responsible for the location, material, construction and drainage of the proposed signs, that the system constructed by me during the period of two years immediately following the date of construction of the proposed specific proposed speci	d system and hereby guaranty to the owner, his successors, ordance with the standards, rules and regulations of the Wes, satisfactory to the Commissioner of Health to place in good original system or any repairs thereto.	heirs, or strhester operating
PROVED FOR CONSTRUCTION. This approval expires one year from the date instead unless construction of building fire sever system construction.	d system and hereby guaranty to the owner, his successors, ordance with the standards, rules and regulations of the Wes, satisfactory to the Commissioner of Health to place in good original system or any repairs thereto.	heirs, or strhester operating

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County of Westchester DEPARTMENT OF HEALTH _ Division of Environmental Sanitation
DESIGN DATA SHEET - SEPARATE SEMERAGE SYSTEM
Located At (Street) WEST HESTER AUE PRINCE. Job #
Owner NEW CANAAN DEVELOPMENT CO Sec. Blk Lot
Present Mail Address O VICTOR, CHRIST-DANER, ARCHT? NEW CONDENCOND
Watershed Planface Lot Area 74 A. S. D. Usable Area 15,00059 FT+
Water Supply: Drilled. L., Driven , Dug Well , depth Public
No. of Rooms Bedrooms Future: Yes
Septic Tank Capacity (From Table, Item 5.1). 2-700 .Gals, Masonry
Soil Rate Used
Soil Rate Approved
Absorption Area Required (Table Item 10.5)
Absorption Provided Pr. //Z Lines as 32 at 1997
Absorption Provided By . Lines of. 32.ft. x 24" trench; other . TRIPLICATE PLANS AND PROFILES OF SEWERAGE SYSTEM REQUIRED DRAWN TO SCALE OF NOT MORE THAN 1" TO 20' HORIZONTAL AND 1" TO 10' VERTICAL FLOOR PLAN OF BUILDING (REQUIRED)
PLOT PLAN (Check Items) SEPARATE SEWERAGE DISPOSAL SYSTEMS PROFILE
2. Scale, north point, date
building;tank;building;tank;
DISTANCES (Nearest Foot) TO:
24. Street lines, name street (before and after grading) 25. Property lines (within 250!)
6. Ground Water Elevation
street; area; roof; 8. Flow Line Elevations
Adj. ponds. etc.
12. Curtain drains to discharge nt 10 Curtain in The Stevation
and tanks (underground)
14. Trees, over 6" diameter, when grown Reviewed by
in or above sewage disposal area. Date:
DATA SUBMITTED BY. THE PROSE CO. OWNER (); BUILDER (); CONTRACTOR (SAME)
OWNER (); BUILDER (); CONTRACTOR (SOME) IF CORPORATION, GIVE NAME AND TITLE THE REDSE CO. RIPOGLAS MOCKED, MAIL ADDRESS 488 GAENDROX R.D. STAMFORD TELEPHONE NUMBER F1-8-6244
S.D. 7.1 - 1957

Westchester-County Department of Health
SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

DLE O.	CLOCK TIME	ELAPSED t	DEPTH TO WATER	DEPTH TO WATER	DROP d	RATE t/d	TYPE SOIL	OF	
	11:40	30.	8"	18"	10"			SANDY.	LOOM GRAVE
	11:50	36	9"	18"	9"	1"-5'	ORP.	saupy	LODIM GRAVE -LOAM-GRAV,
						MAN American and a section field by American Aphilipment ,			
Market and a second				all the selection with a light consistency and provide the selection of th					
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Tes	ts made 1	by TH	E P	BASE	<u> </u>			Date DBC.	30, 1958

S.D. 27.5 3/18/57

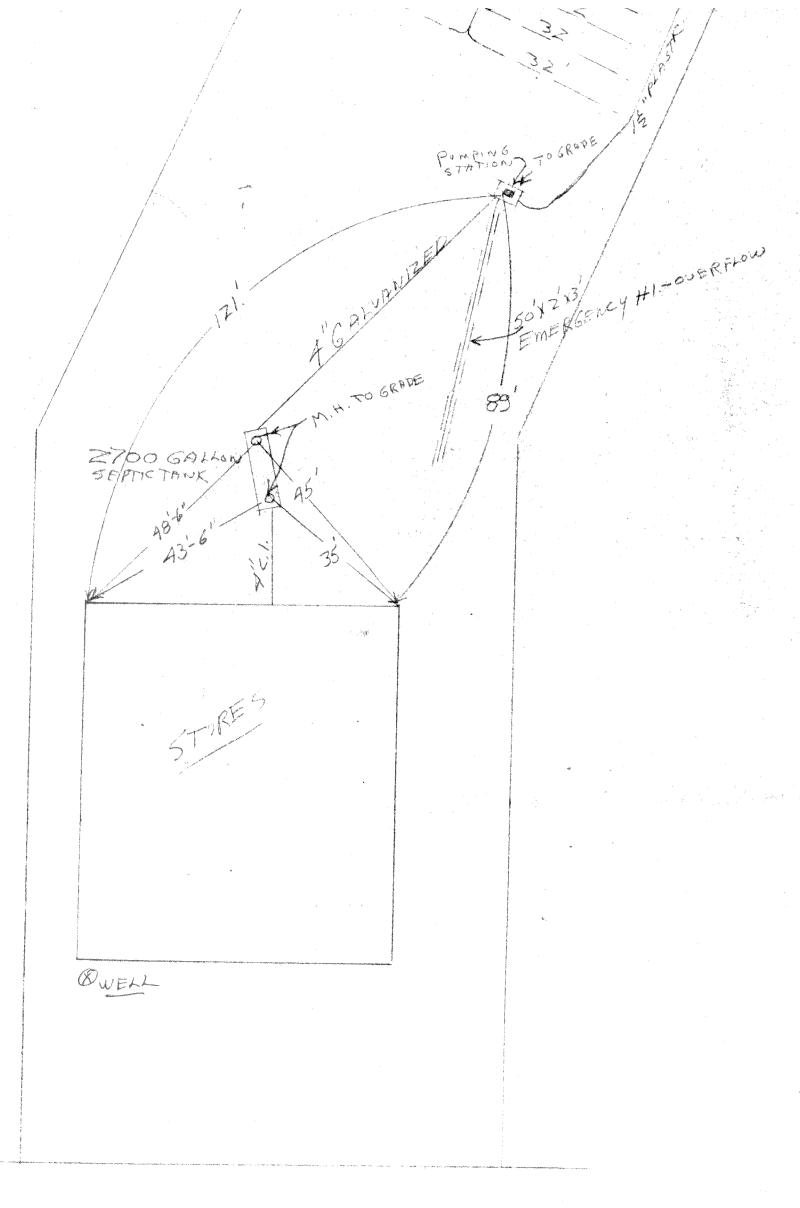
Westchester County Department of Health

TEST PIT DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

	DESCRIPTION OF COLDS EN	COOMIEMED IN 1821 HOPE?
DEPTH	HOLE NO	HOLE NO. HOLE NO.
3.L.	TOP SOIL	TOP SOIL
6"	TOPSOIL	TOPSOIL
12"	SANDYLORM	Sandy Loam
rg"	SANDY LOAM	SANDY LOAM
5thu	SAND LOAM GRAVEL	SANDY-LOAM GRAVEL
3 6 ⁿ	SAND GRAVEL	SAND & GRAVEL
36"		
42 "		
18 ¹¹		
54"		
5 0 "		
66"		
72 ⁿ		
78"		
3 4н		
INDICAT INDICAT	TE LEVEL AT WHICH GROUND WATER IS E TE LEVEL TO WHICH WATER LEVEL RISES	NCOUNTERED AFTER BEING ENCOUNTERED

Tests made by . 1. H.E. P. F. A.S.E. . CO. Date DEC 30,1958

S.D.27.6 3/18/57



WESTCHESTER

phi) V for.

APPROVED

SEP 171959
West, Co. Bept.
of Heagh
By ak decon

SEWAGE DISPOSAL SYSTEM
FOR

NEW CANAAN PEVELOPMENT CO.
SCOTTS CORNERS POUND RIDGE
BY

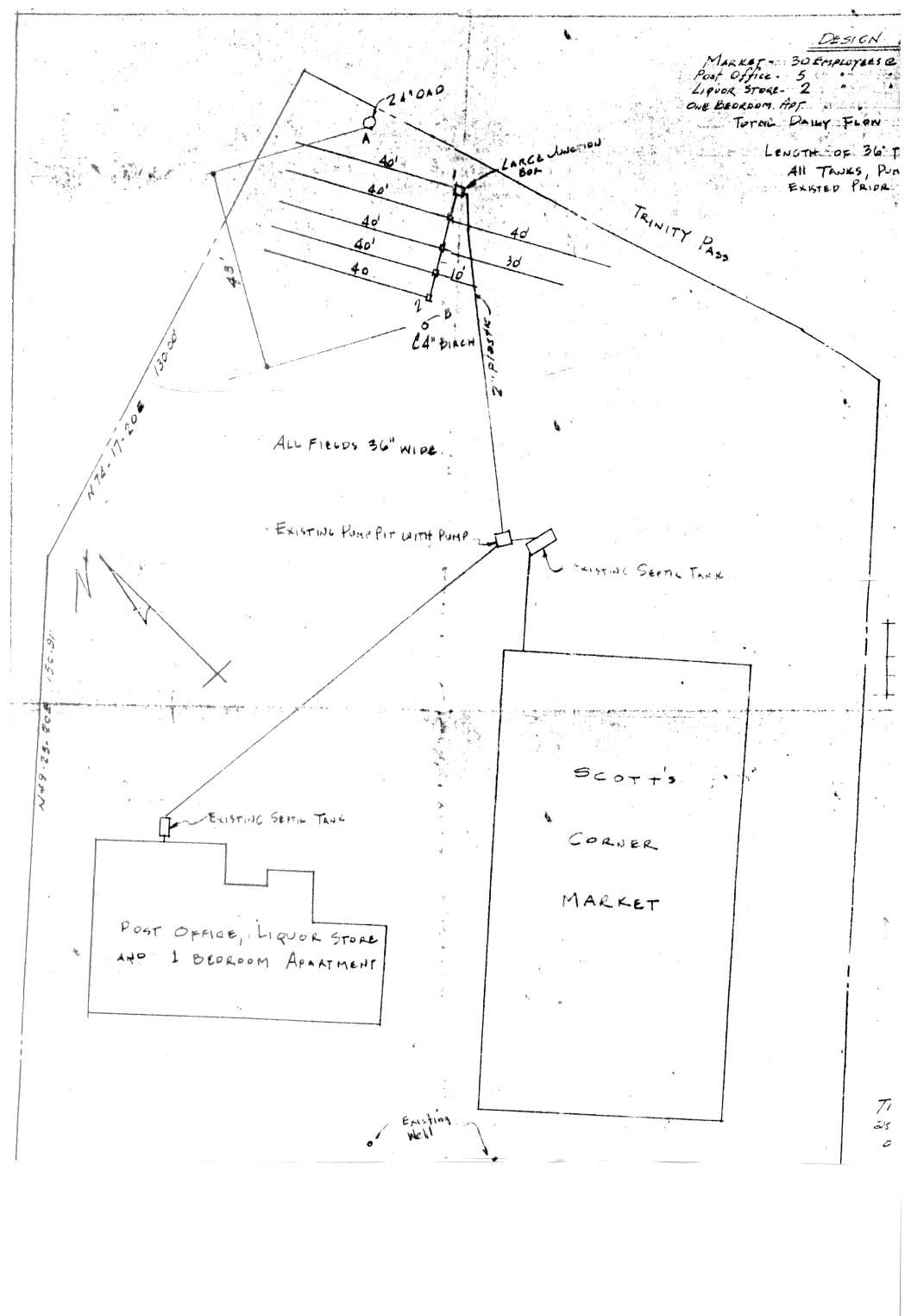
THE PEASE COMPANY

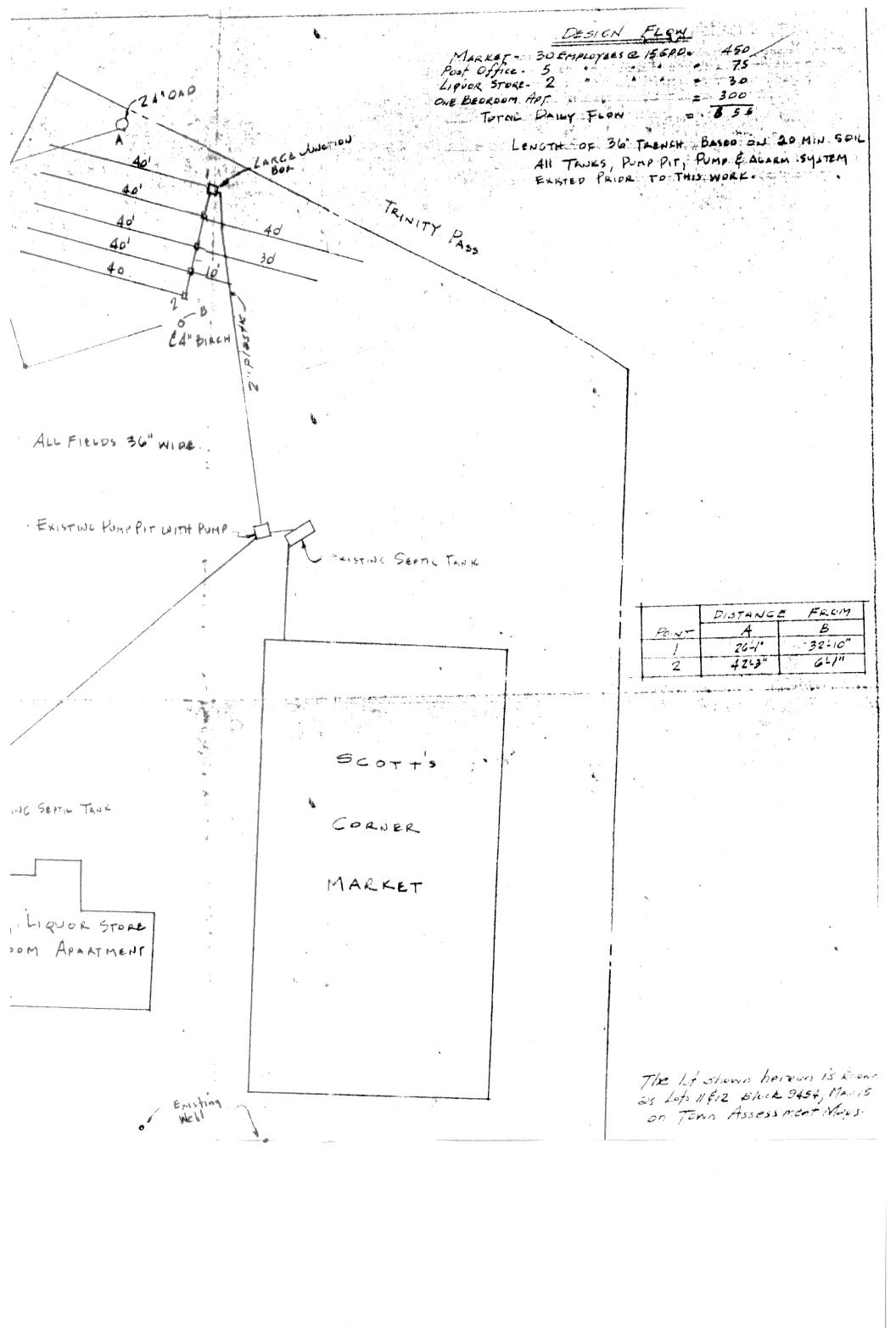
STAMFORD CONN.

SCALE I'EZO' AUG. 1959

Pos o 504 LIN. A. OF FROSHED STONE DIST, BOX 15042 13/ HITOUERFLOW M.H. TO GRADE 83 SEPTIC TANK 48

9454-12 and 9454-11 69-71 WESTCHESTER AVE







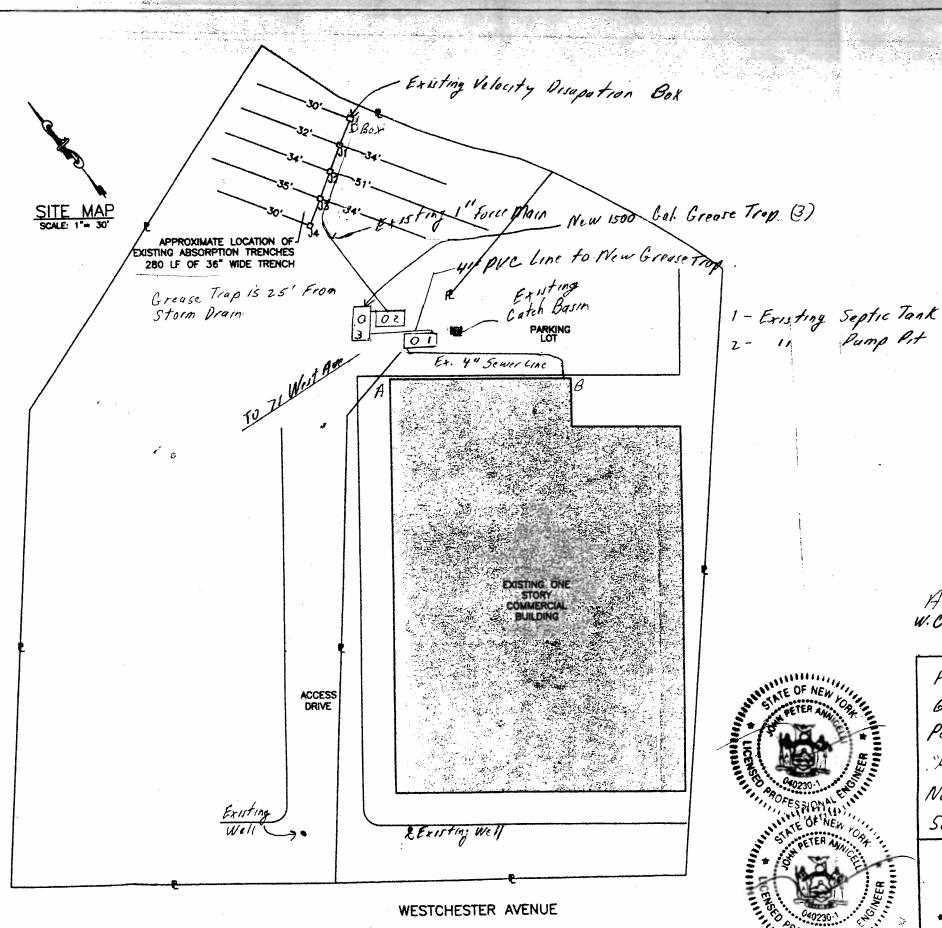
Westchester County Department of Health Bureau of Environmental Quality

Rev. 5/13/09

CERTIFICATE OF CONSTRUCTION COMPLIANCE APPLICATION

WCDH File #: PR 2012-12	Municipality:	Poun	d Ridge.		
☐ Residential ☐ Commercial	Watershed Ba	ısin Name: _∠	Migney	River	Acquaria
NYCDEP Watershed: Y □ N □ Joint Re	eview NYCE	EP Log # _			Delegated Review
Property Information:			,		
Property Name Pound Ridge	Plana L	16C			
Property Address 69 Westhers	AVE	Paul	dRidor	MI. Zin	Code (C) (T)
Diuck / 7 1	7 101	D C 1 ~4	/ -		
really Subulvision:	(Omm	1/10/	Buch	d.,	
	IJU LLC	JWner First Na	ame.		
St. #: 114 St. Address: 6/cn/a	le Rd s	Carsfele	State: My	Zip Code:	10583
Owner Phone #: 917 - 447 . 98		•	,,,,	•	
Building Type: Commercial #	of Bedrooms:	Date	Construction A	poroughles.	W To a second
			, construction A	phioval 1250	ed 2000 -
On-site Wastewater Treatment System (C	JW IS) Informat	ion:			
Design Flow: 450 Slope of OWTS Area:	~ 8ha	Soil Per	colation Rate:	_	min./in
Absorption Trench(es): Length:	l in Et	Trench Wic	alik Size:	Ga	illons (Gal.)
Absorption Pit(s): # Pits Diam	neter:	_ french vvic _ Ft. Denth:	aui Ft.	Area:	Sq. Ft.
Other (circle or specify): Tri-Galleys	4X4 Galleys	Flow Diff	fucors	_ I i. Alba	Sq. Ft.
# Trenches Length Lin	n.Ft. Trench Wid	riow Dili th:	IUSEIS Nar	ne:	0 5 0
mer resquironnonio.					
Pump System: Pump Chamber: Size:	Gal. D	ose	Gal. Overfl	ow Tank: Si:	Ze: Gal
Pariam Brain. Deptin Ft. Wiath:	Ft. R.O	.B. Sand and	Gravel Fill Sec	tion: Dep	oth: Ft.
Separate Sewage Contractor (SSC): Name:	K MIDEL	ro lun	Ited WCDH	SSC Licens	ie# <u>00109</u>
Water Supply System Information:					
Private Water Supply	lic Water Supply	Name:			
Well Driller Name:			NVSDEC	Doc.#	
Address:			NTODEC	. r.eg #	
Other Requirements/Conditions: /500 I certify that the system(s) as listed serving the about of which are attached), in accordance with the ster	Gal ar	ease The	Priorie: (.)	
), (1)	OF NEW	<i>y</i> .		
Certify that the system(s) as the	V A CONTRACT LAND	PETER AND	7:		
I certify that the system(s) as listed serving the application of which are attached), in accordance with the star County Department of Health.	ove premises viele odards; rules and	constructed a	is spown on the p	lans of the co	impleted work (copies
County Department of Health. Date: /// Signed: Any person occupying premises served by the above			# :	phioval issue	d by the vvestchester
Any possess		PE/RA	Seal 4023	<u>'U</u>	With the same of t
correction of any unsanitary conditions	An pharetti(2) stiatt	promptry take	such action as ma	av be necessa	ary to secure the
void when a public water supply becomes available	The state of the s	and approve	a or me bilagie M	ater supply sh	lall become null and
the supervision of a licensed Professional Engineer	fication or change	is necessary,	CONTRACTOR OF CIT	ange when, it	n ine ludament of
to function satisfactorily and are not likely to create	an unsanitary cond	nitect. With pridition.	oper maintenance	the systems	can be expected
Date: 12/3/12 Approv	ved By:	\sim			

Joshua Lipsman, M.D., J.D., M.P.H., Commissioner, Westchester County Department of Health



1) Flow Date - Pound Ridge Plana - 69 Wistchester Are - 450 godinel. Pizzu Rest. 105 ypd Liquor Store - 71 Westchester Ave - 405 gpd Total Flow to Infiltrators 85 Sypas

2/ New Grease Trop 1500gal - 25' From
Existing Catch Basin - Grease Trap
shall be GT 5 × 10 - 15 (Procast)
1500 Gallons - Heavy Duty
by Rotondo 4 Sons Inc.

3) Water Shed - Mianus River Acquarian Water Ca.

4/ Owner-Pound Ridge Playa LCC
114 Clendule Rd.
Scarsdale MM 105-87

5/ Grease Trap in Pizzeria To Be
Cleaned a least once per 3 days

As Built - 11/17/12. W.C.H.D. Comments 11/14/12; 11/15/12

Pound Ridge Plaga

69 West-hester Ave.

Pound Ridge, MM. 10576

"As Built" 1500gal Great Trop - PR2012-12

Nov. 12, 2012. 15-9452-12

Scale 1"=30"

John P. Annicelli, P.E. Troy La. Bedford, N. Y. 10506

Map Shown Based on a Mapby Keane, Coppelman Gregory Doted 5116/11 NOTE

All Water Usuage Meter Readings 10

Both 69 4 71 Westchester Ave Buildings 10

Be Submitted to the Master Count, Health Dyst

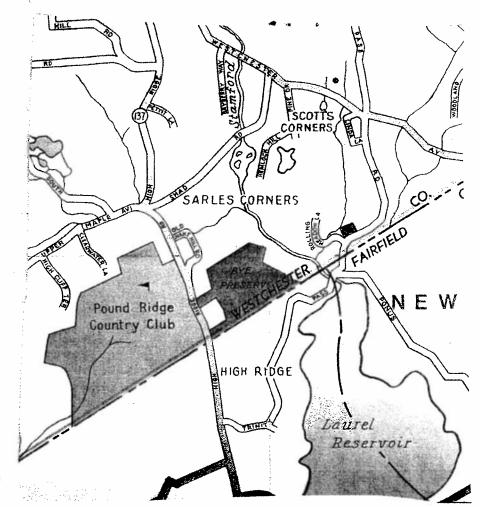
Envir. Quality

Mt Kisco N.Y.

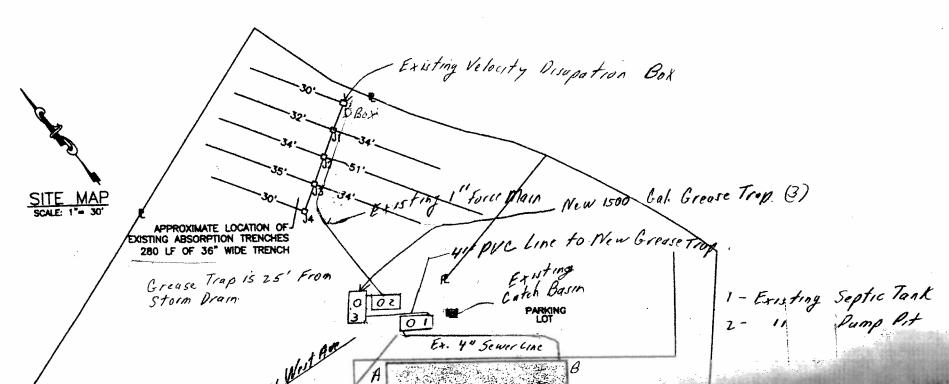
Attn. F Beck Jr.

		0
Item	A	B
. 1500 Gal Precast	23'	67'
Grease Trop		

. 1



Vicinity Map N.TS



1) Flow Date - Pound Ridge Plaza - 69 Westchester Ade - 450 applinch. Pizza Hest. 105 appl Liquor Store - 71 Westehester Ave - 405 appl Total Flow to Infiltrators 85 spect 2/ New Grease Trop 1500 gal - 25' From

2/ New Grease Trop 1500 gal - 25' From
Existing Catch Basin - Grease Trup
shall be GT 5 x 10 - 15 (Precast)
1500 Gallons - Heavy Put;
by Rotondo 4 Sons Inc.

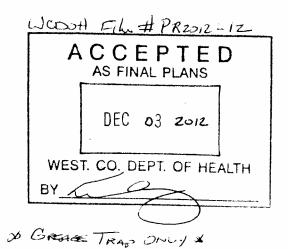
3) Water Shed - Mignus River

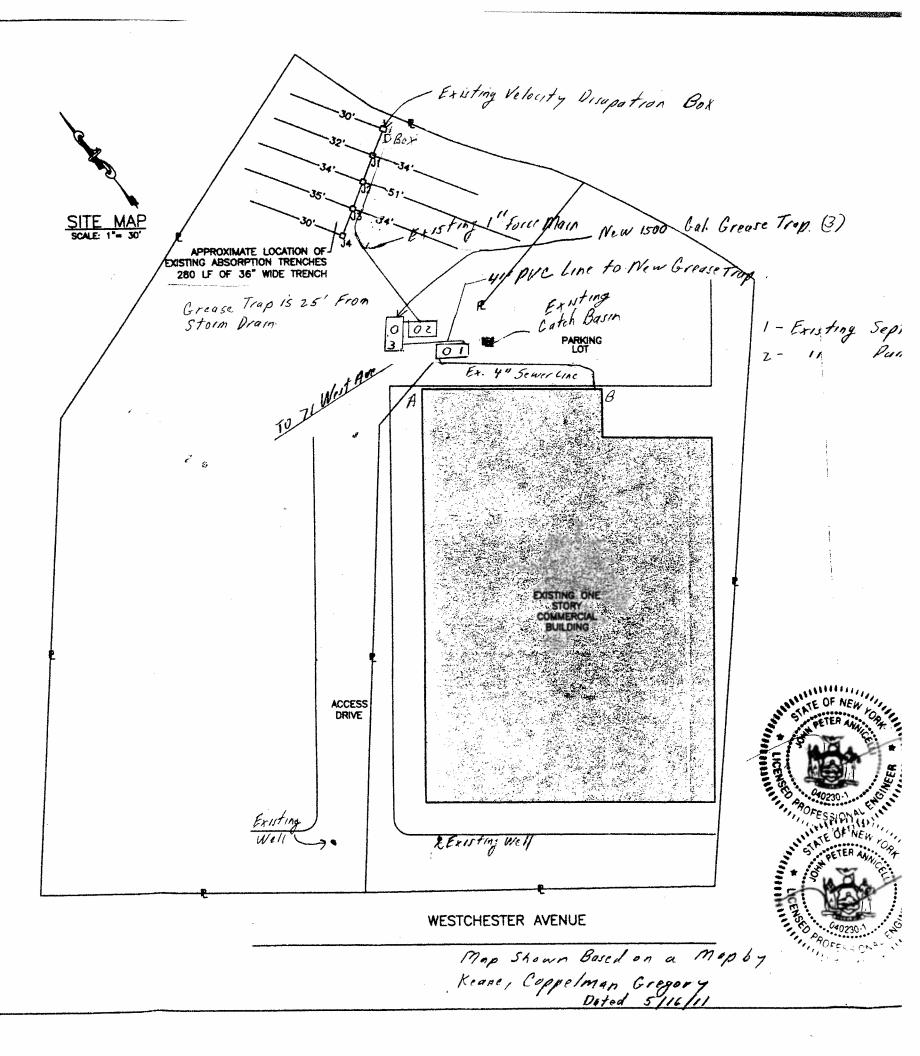
The OWTS has been constructed in accordance with the Rules and Regulations for the Design and Construction of Residential Subsurface Sewage Treatment Systems and Drilled wells in Westchester County, NY.

7 . 1

The design professional has supervised the construction of the OWTS and certifies to its installation is in accordance with the approved plans.

ALTERATION OF THIS DRAWING except by a licensed P.E. or Architect or licensed Land Surveyor is illegal. Any alteration by a P.E., Architect or Surveyor must be indicated and bear his seal, signature and date of alteration.





9454-6 85 WESTCHESTER AVE



Joshua Lipsman, M.D., J.D., M.P.H., Commissioner, Westchester County Department of Health

Westchester County Department of Health Bureau of Environmental Quality

CERTIFICATE OF CONSTRUCTION COMPLIANCE APPLICATION – OWTS REMEDIATION

			- CONCEDIA NO
WCDH File #: PR 2009-06R	Municipality:	Pound Ridge	
☐ Residential ☐ Commercial	Watershed Basir	Name: Minauc A	quer (Arquoirien Wate
NYCDEP Watershed: Y \(\text{N} \) Join	nt Review D NYCDF	Ploa#	The Malitian Math
rroperty information:			
Property Name Westchester H Property Address 85 Westch TMD: Section 15 Block 941 4	1 ve 1 11-	W. H. C.C. A	
Property Address 85 West h	exter Ave i	Day 101 M	stouront
TMD: Section _ / Block 941 4	Int & Belay	oura Kidge , Min.	Zip Code 10576
TMD: Section 15 Block 941 4 Realty Subdivision: Fristing K Owner Last Name: West her feet	estaurant Ro	Lot Area_	Acres
Owner Last Name: Westchester St. #: 100 St Address: Co. Re-	Aug Da	iding.	
St. #: 100 St. Address: <u>So. Ba</u> Owner Phone #: (9/4) 760-	Start Dil	vner First Name:	
Owner Phone #: (9/4) 760-	-812	//7 //// State:	Zip Code: 105 %
Building Type: <u>Restaurant</u> On-site Wastewater Treatment 2	# of Bedrooms:	Date Construction	Approval to
on site wastewater freatment Systen	1 (OWTS) Information:		
Design Soil Percolation Rate:	min./in. Slope	of OWTS Area: 12	0/ 15-21
Components:		or overo Alea.	% Design Flow: <u>695</u> gpd
Components.	Existing New		
Septic Tank:	1200	. Gal.	
Pump Chamber: Dose:	T T N	. Gai.	
Overflow Tank:	<u>550</u> 1250	Gal.	
Absorption Trench(es):		Gal	
•		LF	Ft. Width
Gravelless Trench(es): Infiltration (Quick 4 High Absorption Pit(s): # of pits	<u>Carried</u> <u>224</u>	LF	
		Ft Dia.	Sq. Ft.
Galleys:		LF	Sq. Ft.
Flow Diffusers:		LF	Sq. Ft.
75A Alternative:		7./	Botes
Junction/Distribution Box(es):	8		Box Size
Curtain Drain: —		Ft Depth	Ft. Width
ROB Sand/Gravel Fill:		Ft. Depth	Sq. Ft Area
Other:		,	Oq. Pt Alea
Erosion Control (EC) Completed			
Separate Sewage Contractor (SSC): Name: Other Requirements/Conditions: 3 Rof R	R. Riberra) Unite	Sentic Systems Inc	License # 109
Other Requirements/Conditions: 3 Rof B. * Dairy Witter + Strang F. 11 Tank w.	Fill; Pung Tin	er (Run 1/1) hor	1 0.4 41
I certify that the system(s) as listed serving the ab of which are attached), in accordance with the rule Department of Health.	ove premises were constructed and regulations, plans fi	ted as shown on the plans	of the completed work (copies by the Westchester County
Date: 11/2//09 Signed:	2 (4	~5 / I	ense# 40230
Any person occupying premises served by the abo correction of any unsanitary conditions resulting for null and void as soon as a public sanitary sewer be void when a public water supply becomes available Commissioner of Health, such revocation, modificat supervision of a licensed Professional Engineer or I function satisfactorily and are not likely to create an	Such approvals are sub- tion or change is necessar Registered Architect. With unsanitary condition.	y take such action as may be the on-site wastewater trea ipproval of the private water s ject to modification or change	supply shall become null and when, in the judgment of the
Date: 12/17/29 Approved By:			

V/ Clock Times to pump installed in No Star Electric Room Calibrated & Pumps cock 12 hours 320 gal / pumping Centique Pump Contal

3) High Water Alarm in overflow Tank set to 600

gallons. Aliem light & audible in Worth Star Ristourant

and Overflow Tunk to be pumped when Alarm active tal

Sonix Corp Level Sensor UL 1000 & Could High Water Alarm 94 Owner of Property

F. Accoccella

West hister Properties L.P

North Star Restourant

8 5 Westchester Ave. Pound Ridge, N.4. 10576 Manus River Drainege Basio (Acquario, Water Ca) JOHN ANNICELL', P.E. TROY LANE 914-273-3682 BEDFORD, NEW YORK, 10506 LITEST SCALE; REVISION: NORTH STAR RESTAURANT 85 WESTCHESTER AVENUE SHOWN POUNDRIDGE (T) Sect. 15, BIK. 9454; Lat 6 SHEET NO. DATED: "As Built" 11/21/09 REMEDIAL SSTS PLAN MECKED 1 OF | SSTS; OWTS-SEPARATE SEWAGE TREATMENT SYSTEM 12/10 W.C. HD Commats 12/02

ALTERATION OF THIS DRAWING except by a licensed P.E. or Architect or licensed Land Surveyor is illegal. Any alteration by a P.E., Architect or Surveyor must be indicated and bear his seal, signature and date of alteration.

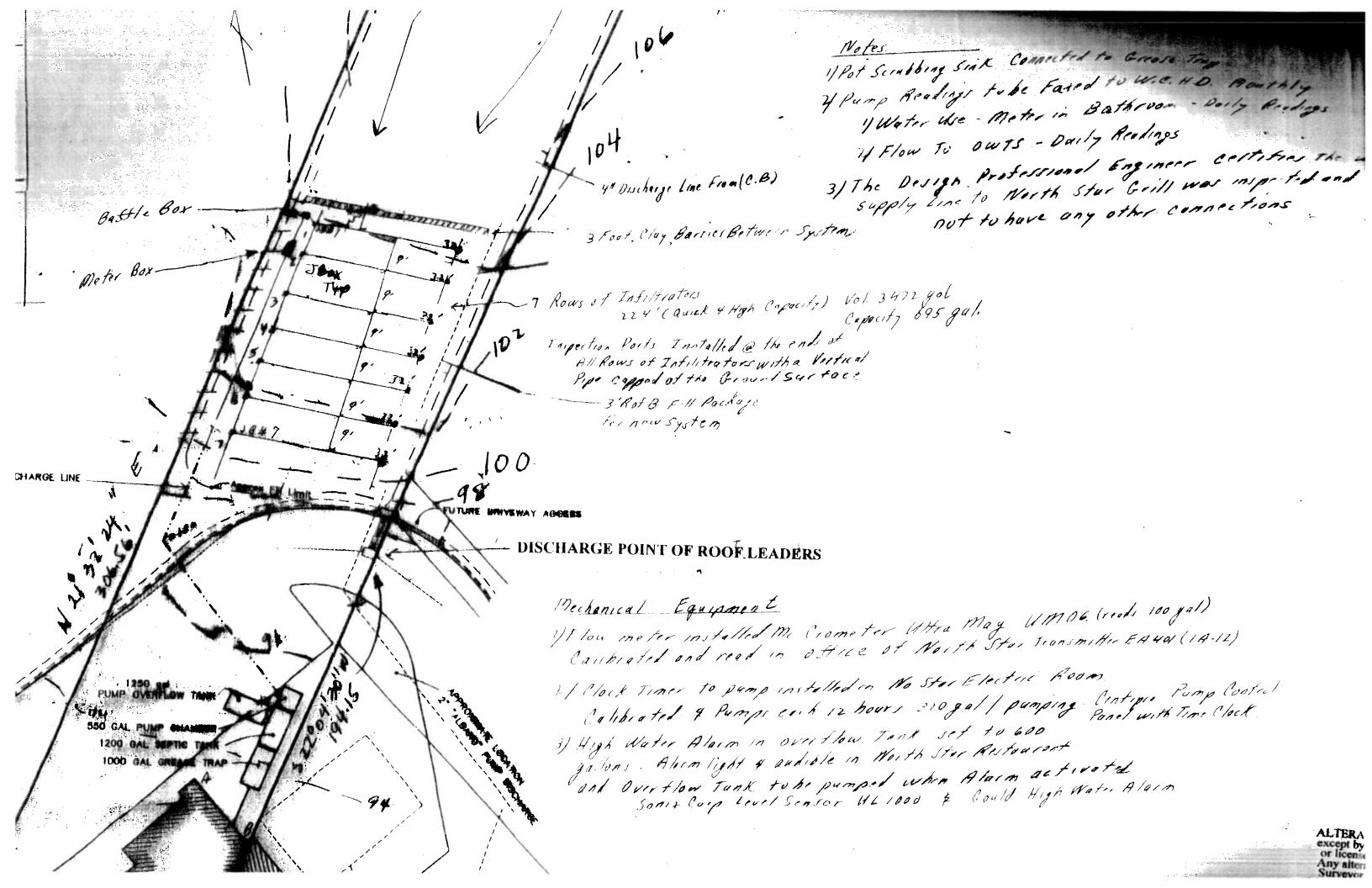
A C C E P T E D

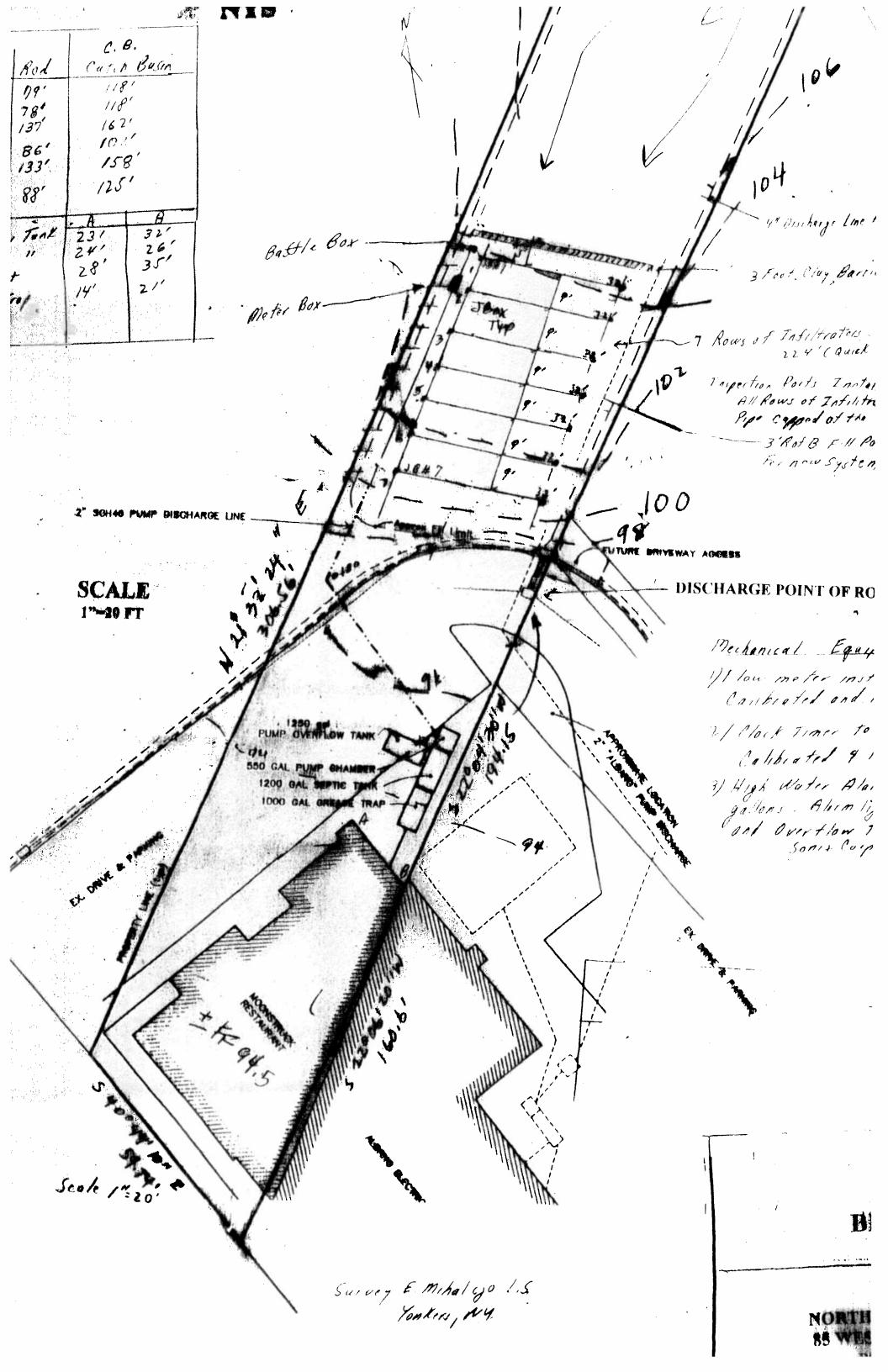
AS FINAL PLANS

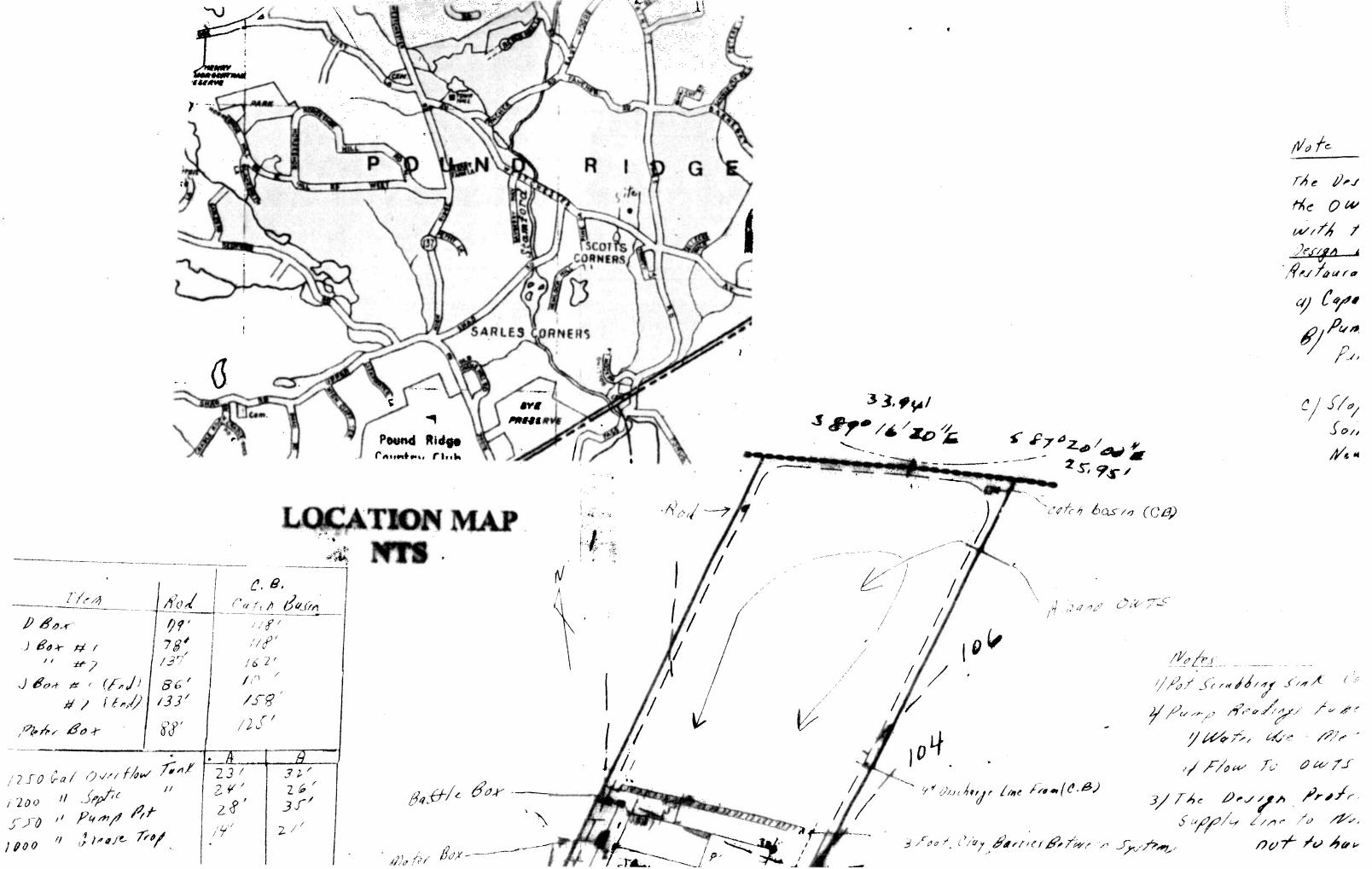
DEC 17 (00)

WEST. CG. DEFT. OF HEALTH

MAX DAILY FUN LASAPP







Item

D Box

J BOX #1

Poter Box

11 #7

The Des the ow with t a) Capa

Son

33.941 3890/6/20/E 5 87020 00 % cotch basin (CB) Discharge Line From (C.B) Play Barries Between System

Note

The Design Professional has superised the construction of the OWTS and certifies to its installation and it is in accordance with the approved plans

Restaurant capacity 46 scots @ 35 gol. | sout = 1610 gol/day

a) Capacity of intiltrators 695 gal /Day

By Pump Dose Verified in field 221/2" Drow = 302 Gal/Dase Pump set to pump every 12 hrs therefore max. Dose to Fields 640 gpd.

c/Slope of OWTS - 1290 Soil Percolation Rute 10 min /in. New Infiltrators 224 Volume 3472 Gol

1/Pot Scrubbing Sink Connected to Grease Tray of Pump Realizer to be Fased to W.C. H.D. Monthly 1) Water We - Meter in Bathroom - Doily Rediges of Flow to owis - Daily Readings

3/ The Design Professional Engineer Cettifies the water Supply line to North Star Grill was inspected and determined not to have any other connections

9454-7 83 WESTCHESTER AVE - ALBANOS

P.S.D. Town of Pound Ridge Date: Permit 8/ 1/51 Approval 4-25-52
Location: Westchester Avenue Section Block: Lot:
Owner: Alfred Albano, Hickory Lane, Bedford, New York Builder: Herman Coutermash, R.F.D. #5, Ridgefield, Conn.
House: three stores Soil test made: 3 minutes Tank capacity: 810 gallons Material: Masonry
Absorption: 87 linear ft. of 24 in. absorp. trench Sketch-Bock: A5-422

Town of Pound Ridge Alfred Albano, Westchester Avenue 8/1/51 - Herman Coutermash - 800 gal. 80' x 24" 6.8 x 40x 40 = 810gal

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WESTCHESTER COUNTY DEPARTMENT OF HEALTH

William A. Holla, M. D., Commissioner White Plains, N. Y.

Secured August 1, 19

Sewers Pomdrege

PERMIT FOR SEWERAGE SYSTEM

APPROVAL is hereby given pursuant to Article VII of the Sanitary Code of the Westchester County Health District to

to construct or provide a sewage disposal

system consisting of

an 800 gallon masonry septic tank and 80 linear feet of 24 inches wide absorption trench

to serve

three commercial stores owned by Alfred Albano, Westchester Avenue, Found Ridge, New York.

for an occupancy of

persons, provided that

4/25/52

- No portion of the system shall be backfilled or covered until inspected.
 Inspections are made during regular working hours only. Twenty-four hours' notice is required.
- II. The system shall not be used until it has been constructed in an approved manner, inspected and backfilled, and the written final approval thereof shall have been obtained from the Department of Health. (See Item VIII).
- III. Additional or more adequate facilities shall be provided whenever it is determined by the Commissioner of Health that such facilities are necessary, for which an additional permit shall be obtained.
- IV. This system shall be maintained and operated in complete conformity with rules and regulations for the protection of public water supplies, all applicable laws, local ordinances, and the provisions of the Sanitary Code, existing or hereafter enacted.
- V. When sludge and scum shall so accumulate in any tank as to occupy a depth at any point of more than one quarter of the liquid depth of the tank, they shall be removed and disposed of in accordance with the requirements of the Sanitary Code, and so as to create no nuisance.
- VI. A connection to a public sanitary sewer shall be made whenever such sewer shall become available.
- VII. This permit remains the property of the Department of Health and is revocable at any time or subject to modification or change whenever the Commissioner of Health shall deem necessary.
- VIII. It shall be the responsibility of the person obtaining this permit to deliver a true copy thereof together with a copy of the final approval to the owner of the premises served by this system before this system is placed in use.

HOW it!

Commissioner of Health

WESTCHESTER COUNTY DEPARTMENT OF HEALTH William A. Holla, M. D., Commissioner

7-31-51

A	VISION OF SANITATION	Application Post To
R.	M. McLaughlin, P. E., Director H. M. Gray, P.E., A. R. Secor	Application Rec d
	R. H. Cummings. P. E. R. W. Germanath	Final Approval
	Sahitary Engineers	\$7.0
	Sahitary Engineers APPLICATION FOR RESIDENTIAL SE	WAGE DISPOSAL PERMIT
	(<u>Please_type_or_print</u>)(See_Rul	les & Reg.Form S.D.22)
To	the Commissioner of Health:	
	Application is hereby made for a manual	construct a sewage dispasal
sys		
	(Number, type, and use of buildi	ng to be served.)
1.	Owner ALFRED ALBANO Note: (Owner must receive permit and ap	proval. Check here for extra
2.	Property at WEST CHESTER AVE. POUND RIG	GE, NEW YORK
3.	Tax Map Location: SectionBlockLot	ge, Town, City)
1.	Construction	Supdivision
40	Construction: New, Replacement; Proposed Futu	re Building
5.	Lot size. 100 × 150. No. of rooms Bedrooms Extra lavatories. Special Fixtures.	Dethorm 3 (RURTORIES
		axi um future Uccupancy)
6.	Source of water supply. ARTESIAN WELL Watershed on which system is located	
	Distance to nearest watercourseOwner's	wells Adjacent wells & Solution
7.	Daily Sewage Flow: No. of persons	
8.	Daily Sewage Flow: No. of persons	x /5 gais=
O &	Settling treatment: Septic tank; liquid capaci	ty below flow line 100. 98cs
	Materialinside dimensions: Length. Minimum liquid capcity - 500 gallons; 200	college a series depth.
a	Soil obnormation 1 1 9	garrone per oedroom.
/ \$	Soil absorption test minutes per inch drop (MUST BE MADE BY APPLICANT AT SITE)	(from table)
10.	Absorption area. 2.0.0	
	o	M Table bottom once
ll.	AUSCIPCION treatment: Trenches 1 inches in	do 199 Tamaca Carl
	araver. Cu. yus., to depth of . S. inches h	along hattam of miles
	Dodonitus Pros. number Ontside dimension	a double builded Bit I i
	wall area below flow linematerialbu Absorption area: trenchesleaching pits	
	or entenes, reaching pits	totalsq. ft.
	Signature Lermon & outermand Title !	Constay
	DV Owner or nerson progenting amount	m + m + 2 + 4 + m + m + 2 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1
	Mail permit to Redge field Com	1. R. F. D. 35
	SKETCH RECUIRED showing all features of proper disposal system. Failure to secure permit best	former committee and it is the
	cion of the county Danatary Code and is a miss	demonan
	INSPECTION OF COMPLETED SYSTEM BEFORE BACKETT	TMC TO DEVIE



ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

Municipalit	y:						
Property Ma	ailing Addres	s (No. & Str	eet): 8 3	WESTCH	ESTE	Z ALE	
Town/ Villa	ige: Pou	א מא	LOGE	St	ate:	NY	7in: 1057/
Owner:	ALBA.	NO G	EALTY				Zip: 10576
Owner Mail	ling Address (No. & Stree	t) (if different):		*		
rown/ villa	ige:				State:		Zip:
Property Us	e: [] Singl	le Family []	Multi-Family [] I	ndustrial (Vom	mercial		La p.
OWTS Re	mediation						#:
wastes or of	fensive mater	ial on to the	replacement, or e. e, resulting in, or surface of the gro as defined above	unat may result	in, the dis	vater treatment scharge of sewa	system components to correct tage or domestic wastes or trade course or water body.
OWTS Re	pair 🛛	Complete	the following	information			
<i>Repair</i> shall	mean the rep	air, mainten	ance, and replace	ment in kind and	l in situ; (of broken, dama	nged, or worn onsite wastewater
Number of I	Bedrooms	N	umber of Bathroc	oms:		Water Supply	Type: Public 🔲 Well 🗖
r	Ple	ase note be	elow only comp	onents that ha	ive been	repaired or	replaced.
Repaired	Replaced	Septic Tan Junction/D Sewage Pu Absorption Seepage Pi Galley(s) Gravelless 75-A Alten Other Adva): s): s) osing Equipment 320 ft. X 1	rench W	OF WO	V BUILDING AND LOCATION ORK PERFORMED ON BACK IIS FORM
ľ.	I Entire	System Re	placed				
Contractor's	Name (print)	UNITER	SEPTIC & E	XCAVATION	Date Re	pair/Remediation	on Completed: 6 - 18 - 14
Contractor's	Signature:		and the second		License	No.: 109	**
Upon comple	etion please re	emit to:		unty Department Moore Ave., 1st Kisso, NV 106	loor	n- BEQ	

Mt. Kisco, NY 10549

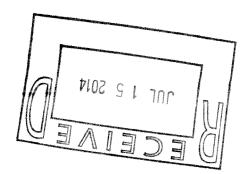
Attn: Patricia Tornello-Adams

Repair File #:REP (WCDH Staff only)

J8# 40	
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1/16 ROCK 24	
18 18 40	
1	1
40 40 36	J
6//	f
1// 44	
* * * * * * * * * * * * * * * * * * * *	
40	
// 5	
// 1	
L REPLACED //	
EXISTING INFILTRATIONS	
ETISTING THE	
JITH 320 L.F. OF	
WIDE INFILTRATIONS	
WIDE INFILTRATORS	

2

	ROD #	POD #2
J-B0× #1	13/2	631/2
END #1	39 1/2	23
BEGIN #4	35	76
End # 4	49	42
J-B0x = 2	42'2	81/2
E~0 #5	48/2	49
BEGIN +8	65	99
Erb #8	64	7/



SEPTIC REPAIRS

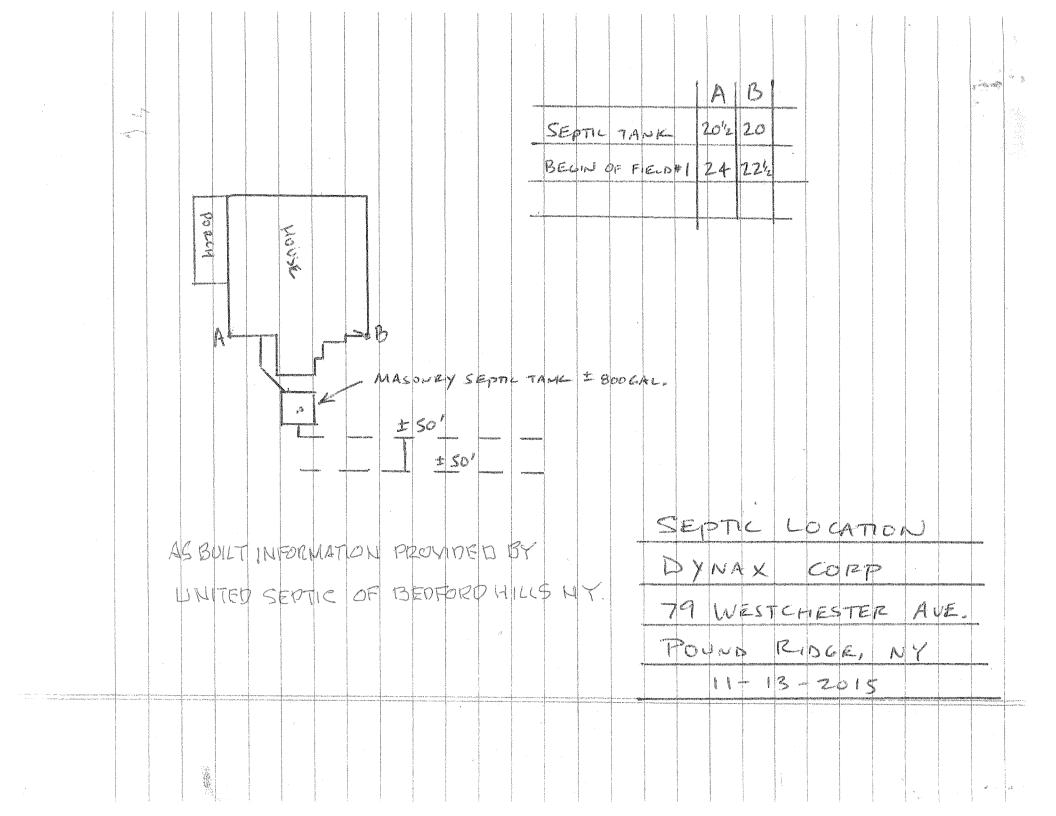
ALBANO APPLIANCE

83 WESTCHESTER AVE.

POUND PHOSE, NY

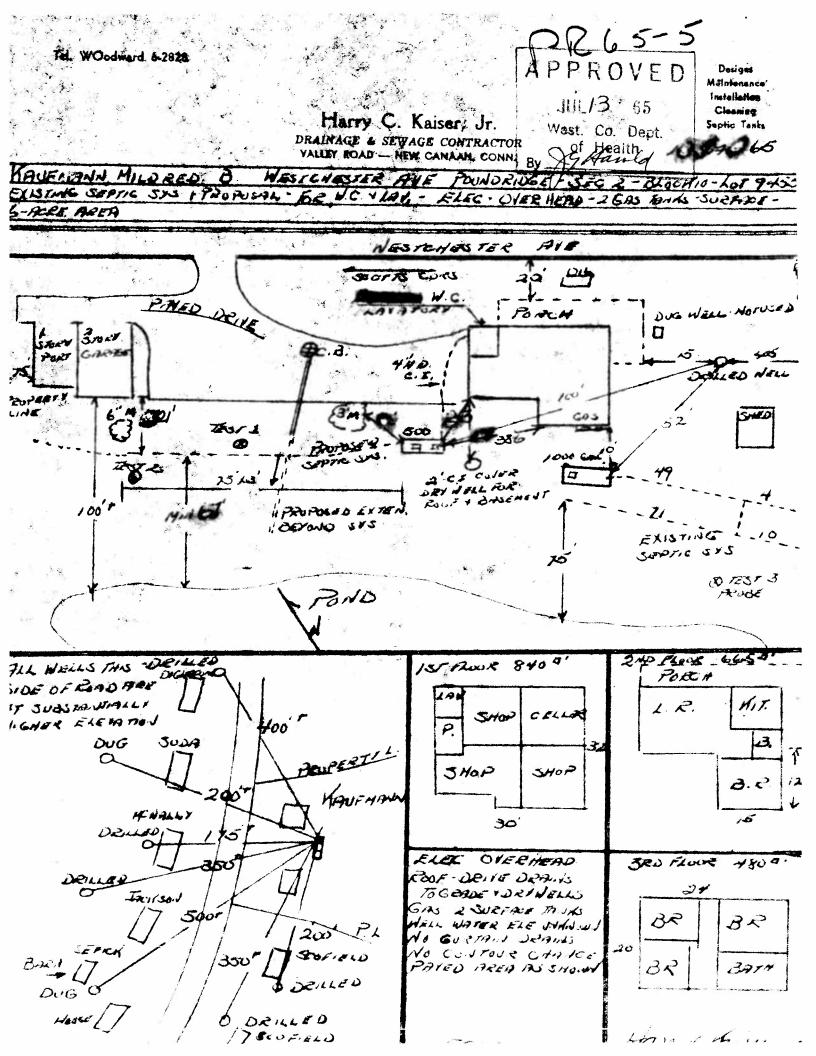
6-18-14

9454-8 79 WESTCHESTER AVE



9455-10 22 WESTCHESTER AVE

Westchester County Department of Health



COUNTY OF WESTCHESTER DEPARTMENT OF HEALTH - Division of Environmental Sanitation
DESIGN DATA SHEET - SEPARATE SEWERAGE SYSTEM FILE NO. PR65=5 1/4 MI EMST SCOTTS CORS
Owner HAUFMANN, MILDRED B. Sec. 2 Block 16 Lot 9450
Present Mail Address WESTCHESTER AVE POUNDRIDGE N. Y.
Watershed STAMERD CONN. Lot Area 6 A S.D. Usable Area 5000 T
Water Supply: Drilled X Driven Dug Well : Depth ? Public
No. of Rooms Bedrooms 4 Future: Yes No X Other
Septic Tank Capacity (From Table, Item 5.1) 500 Gals. Masonry X Metal
Soil Rate UsedMin/l" Drop: Soil Peyc. Test Data Test Pit Data
Soil Rate ApprovedSq.Ft./Gal. Checked ByDate
Absorption Area Provided ByL.F. x 24"36" width trench
TRIPLICATE PLANS AND PROFILES OF SEWERAGE SYSTEM REQUIRED DRAWN TO SCALE OF NOT MORITHAN 1" TO 20' HORIZONTAL AND 1" to 10' VERTICAL FLOOR PLAN OF BUILDING (REQUIRED)
Check off items required to be shown on plans 1. Identification (Name-Title) 2. Scale, north point, date 3. SEWAGE DISPOSAL SYSTEM: Dimensions; Sewer Line Septic Tank; Distr.Box Trenches; Spacing Other. DISTANCES (Nearest Foot) TO: 4. Street lines, name street Diriveways, paved areas Natercourses, ponds, etc. Street; Area; Roof; Footing; Cellar; Other 10. Drilled wells within 500 ft. 11. Dug wells or springs within 500 ft. 12. Curtain Drains to discharge pt. Nater, oil, gas, electric services and tanks (underground) 13. Nater, oil, gas, electric services and tanks (underground) 14. Cortain Brains to discharge pt. 15. Contours, before & after grading in or above sewage disposal area.
DATA SUBMITTED BY (Sign) HOME CONTRACTOR CONTRACTOR
OWNER / BUILDER / CONTRACTOR CONTRACTOR
IF CORPORATION, GIVE NAME AND TUPLE (Form SD28 Required) MAIL ADDRESS 878 Vally Town TELEPHONE NUMBER 966 2828 S.D.7.1 - 1962 year Course, Communication of the Spanning State

- Location M. B. MANFMANN - WESTCHESTER AVE BOND RIDGE

WESTCHESTER COUNTY DEPARTMENT OF HEALTH

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

		1 1						1	
Column		! 7 1					· · 6	1Col 3	± Col 6
<u> </u>	t	1		Elapsed			Water		1
Hole	† Run	' Clock	Time	' Time	Depth		r ! Level	1 So	il Rate
No.	' No.	'Start	Stop	' Min	Start	1 Sto	p 'Drop-ir	' Min	in drop
	<u>'</u> 1	2:10	3:PM	50	26"	:16	17	t	17
	1 2	3:05	3255	50	26	16/	4.5	t	1/0
							4 3/4	1	: 6-
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- ス	· ,)	PROBE	10 To	27"	HARL	Pache	O CH	ay .	1
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Notes:

2) Depth measurements to be made from top of hole.

Tests made by	, Karry CH	usey for	Date 14 0065
•	(Signature)		

5-46-A (9-18-62) Hole #/ Setwated - Water obsorbed 35 4/N.

¹⁾ Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Division of Environmental Sanitation

PR65-5

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

DEPTH	HOLE NO	HOLE NO. 2 PROBED TO 4-6"	HOLE NO. 3	HOLE NO.
G. L.	200	300	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6 _{II}	TOP SOIL			
12"	<u></u>		culti-material production countries and accompany to the contribution of the contribut	
18"	LOAM			
24"	LOAM TO CLAYMIN			
30°	Nonlinition elikolokkonomikkonintipatkonintipatkonintivanessiksi kinensiksiksiksiksiksiksiksiksiksiksiksiksiks	*********************************	HARD BENED CLAY	
36"		onmonthinapain efficiellation		LOVE OF CARREST AND ANY AND CONTRACT OF CARREST AND CARREST AND CONTRACT OF CO
42"	With middle and incomment when all the property or will not a decrease of the following of	er tallation little transverse server er e		
48"		GROUND WATER		
54"	And Anticonnection of the second contraction of the second contraction of the second contraction of the second	GROUND WATER		nin in spiriture i yar asistim umonga Mandalanda a Eleksialan da nga manga kunanda a Mandalan anin an angana
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72"				
78"		en region and his last series de last series de la colonia		
84 n				
INDIGATI	E LEVEL AT WHICH GROU	IND WATER IS ENCOUN	TERED	
	E LEVEL TO WHICH WATE		Λ	RED
TESTS M	ADE BY MULTIPLE	DATE	14 ten 65	

S.D. 27.6 8.14.63

9455-21 34 WESTCHESTER AVE

and Francisco	<u>.</u>
Separate Sewerage SystemPrivate Water Supply	167
CERTIFICATE OF CONSTRUCTION COMPLIANCE WCDH File No. PR 73-30	No
Located at Man party Art Section 4 P	41-
Owner to whom be of a Mostro My 600 Lot 2 100 Job	
Separate Sewerage System built by Andress Address	46
Consisting of Gal. Masonry, Metal Septic Tank lineal feet X Width to	rench
Other requirements	:
Water Supply:Public Supply From	*
Private Supply Drilled ByAddress	
Build g Type Date Permit Issued	
Erosion Control Completed	······································
Other Requirements	
I certify that the system(s) as listed serving the above premises were constructed essentially as shown on the plans of the completed work (copies of which are attached), and in acc with the standards, rules and regulations, plans filed, and the permit issued by the Westchester County Department of Health.	cordance
2. 4/2. 15. 15. 15. 11. 11. 11. 11. 11. 11. 11	
Any person occupying premises served by the above system(s) shall promptly take such action as may be necessary to secure the correction of any unsanitary conditions resulti such usage. Approval of the separate sewerage system shall become null and void as soon as a public sanitary sewer becomes available and the approval of the private water supple become, null and void when a public water supply becomes available. Such approvals are subject to modification or change when, in the judgment of the Commissioner of Healt revocation, modification or change is necessary.	miles who wild
With proper maintenance these systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.	* * * * * * * * * * * * * * * * * * * *
Date May 1, 1775 William A. Brumfield, Jr., M. D., Commissioner By West Leone Son. E. 3.	4
SD 47.64 Westchester County Department of Health	
Separate Sewerage System Private Water Supply Bound Andrew	1
Municipality /9 17 -	· Action
CONSTRUCTION PERMIT WCDH File No.	30
Located at West Electric Ave Section 9A Block 9455	
SubdivisionLotLotLot	
Owner Columbia of Mastonburg Address Port Office Pound Ridge My Lot Area	
Building Type Addition to Compress Blog No. of Bedrooms	Feet
Separate Sewerage System to consist of	rench
To be constructed by Alexander Address New Rychelle Ary	***************************************
Water Supply: Public Supply from	Milming designation of the second
Private Supply to be drilled by J M Joseph Address A Hamilly My	thorasian and the same and the
Other Requirements No un of the addition shother aure regarden, water	
represent that I am wholly and completely responsible for the design and location of the responsed system (a) 1) that I have been specified in the design and location of the responsed system (a) 1) that I have been specified in the design and location of the responsed system (b) that I have been specified in the design and location of the responsed system (b) that I have been specified in the design and location of the response of the respons	
represent that I am wholly and completely responsible for the design and location of the proposed system(s); 1) that the separate sewage disposal system above described will tructed as shown on the approved plan or approved amendment thereto and in accordance with the standards, rules and regulations of the Westchester County Department of Heal hat on completion thereof a "Certificate of Construction Compliance" satisfactory to the Commissioner of Health will be submitted to the Department, and a written guarantee wo (2) years immediately following the date of the issuance of the approval of the Certificate of Construction Compliance of the original system or any repairs thereto; 2) that the repartment of Health.	Ith, and will be reriod of
Date 3/28/73 Signed	
APPROVED FOR CONSTRUCTION: This approval expires one year from the date issued unless construction of the building has been undertaken and is revocable for cause or rain arms severally and the considered necessary by the Commissioner of Health. Any change or alteration of construction requires a new permit. Approved for disposal of domestic arms severally and or private water supply only.	may be ic sani-
Date J. 11, 1973 Jack J. Goldman, M. D., Commissioner By Ment M. Leone, Son &	2
Westchester County Department of Health	<i>(a)</i>

CCUNTY OF WESTCHESTER DEPARTMENT OF HEALTH - Division of Environmental Sanitation
DESIGN DATA SHLET - SEFARATE STILL AGE SYSTEM FILE NO.
E. Columbo & Owner J. Martingary Address Westchester Ave
Located At (Street) Wester Porner Sec. Sec. 94 Block 9417 Lot 24 (Indicate nearest cross street)
Municipality Pound Lidge(T) Watershed
SCIL PLRCCIATION TEST DATA BLOUL ED TO BE SUBLITTED WITH APPLICATION

Hole !		CLOCK	r TraE		PER	COLATION		PERCELATION
	Run! No.!	Start	Stop	Elapse Time Min.	'Depth to V	Vater nd Surface Stop	Water Level in Inches Drop in Inches	
	1 !	0	حو ا	5	12"	15"	2/1/2	1 4
1	2	0	1 4	. 4	11211	15-11	212/min	1 4
-	3 !	0	14	. 4	1/2	11"	21/1/10	: 4
1	4 !		1	† †	1		4	
	5 I		e E	ŧ	9	ŧ	f (t !
2	1			,				
	2 1	0	1 4	1 4	1211	1511	2 14/4/	! 4
	3 ¹	ð	4	1 4	13/1	11511	2 12/min	4
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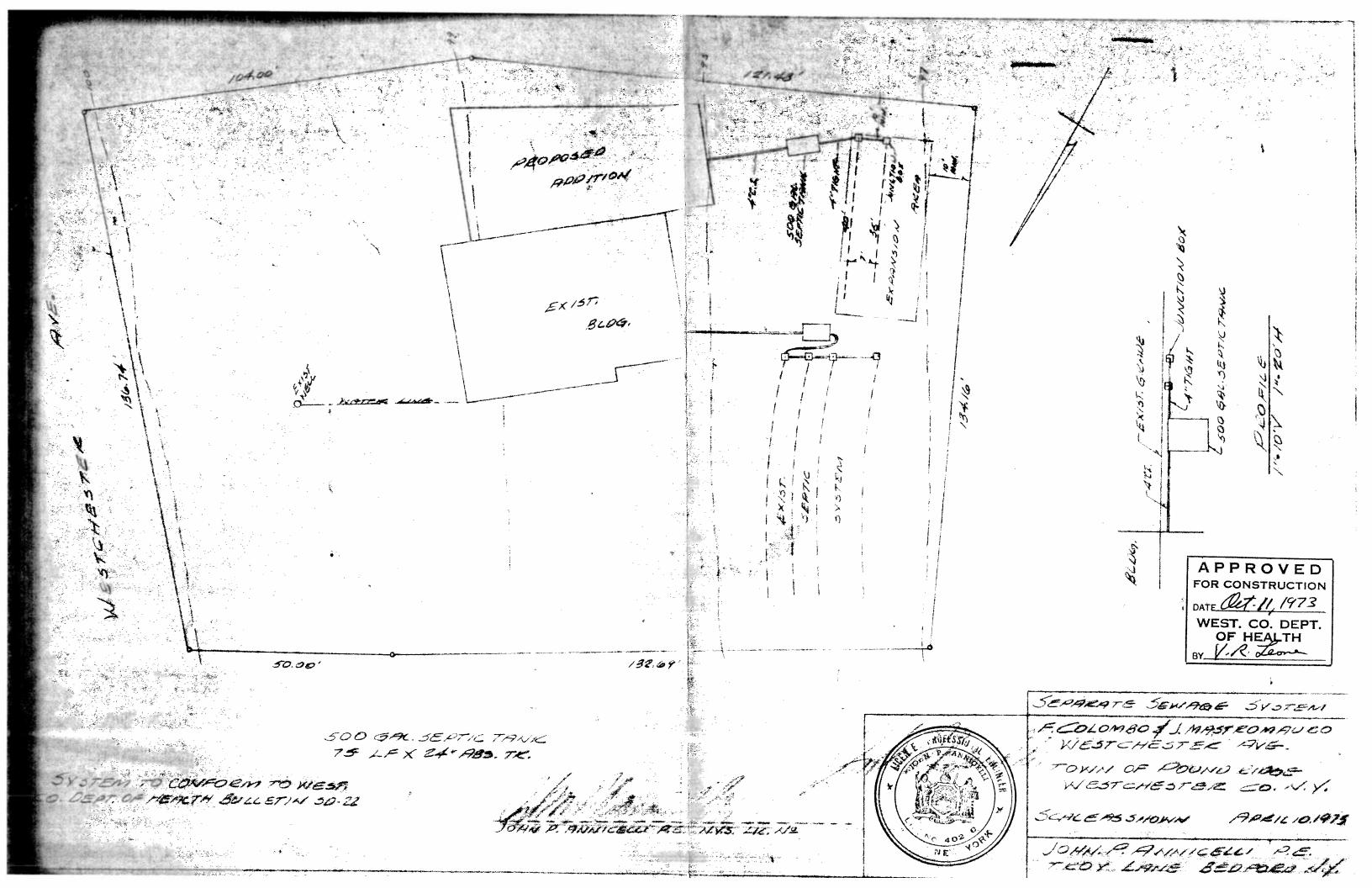
Notes:

1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

2) Depth measurements to be made from top of hole.

TEST PIT DATA LECULLED TO BE SUBLITTED OF APPLICATION DESCRIPTION OF SOILS E COUNTE ED IN TEST HOLES

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18"	"/				Miking dalam daga ulan kemengkan garagan ya
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7811	takan - dan daga da mana kalanda da sa da mana da manga da manda da d		MPT-procedure and procedure an	PROGRAMMENT AND	golden menter den sie voordependinne blevenin.
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il Rat <i>Airm</i>	te Used	Min/1" Drop	S.D. Usable	Area Provided - /20 ////// Masonry Metal	· · · · · · //// · · ·
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sorpti	lon Area Provid	ed By 75 L.F.x2	4"w	idth trench. Other	Mindred and the production of the state of t
	ohn PAn	nell	Signature	Alm/Ilen	al
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me_/	Troy Lane Bedford	LEICE. T.N. LH. OEEL.	AFST. CO. I	Am/Men	Control of the Contro
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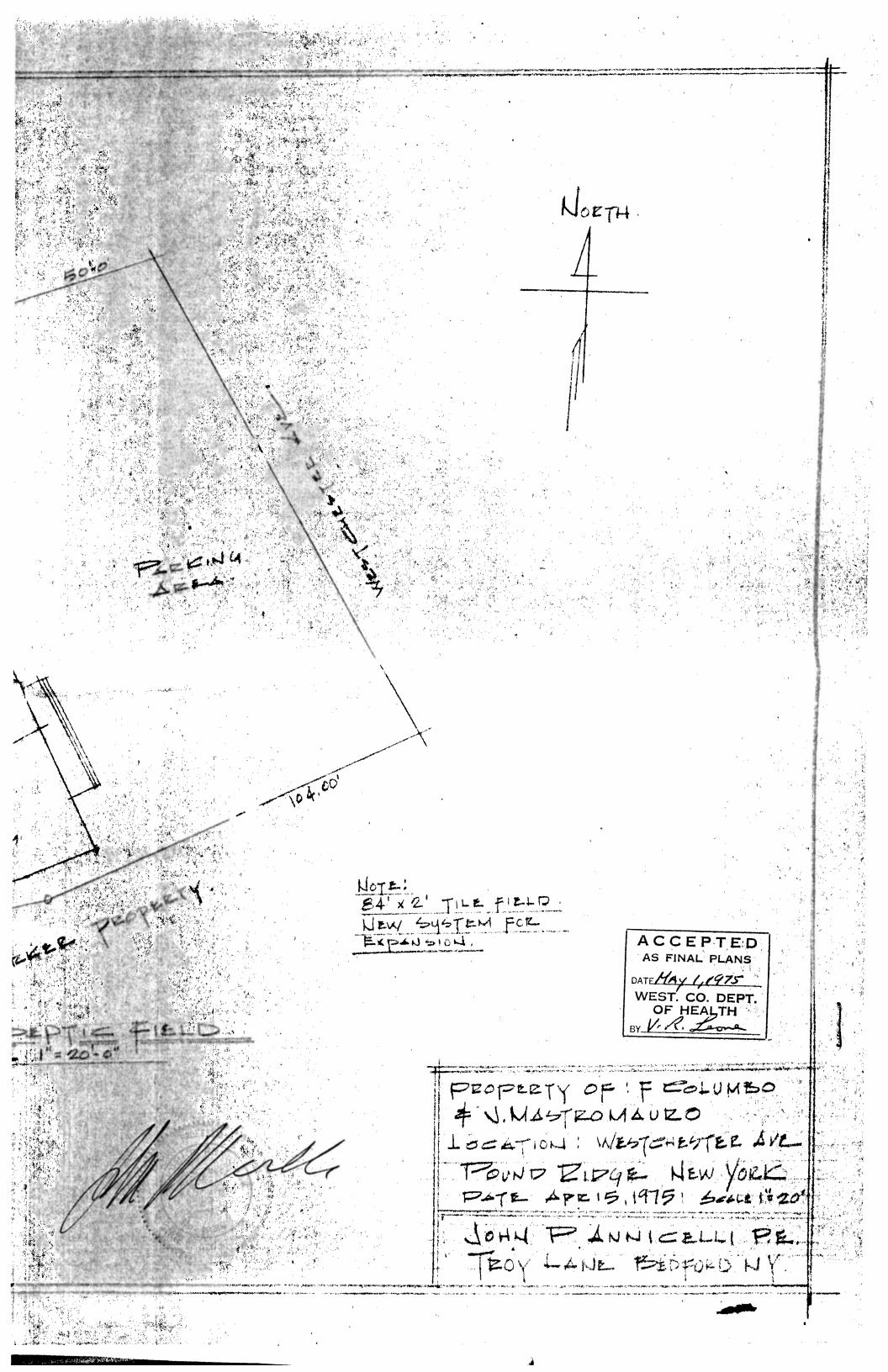
VALIEN PEOPLETY 132.69 122-h 4 PEOPERTY PEANER FOR 1019 121.48 BUTTER CPEOPERTY LINE

NO TRUCKS MACHINERY BUILDING MATERIALS NOR EXCAVATED EARTH ALLOWED IN SEWAGE DISPONDED AREA TO CONSTRUCTIONS OF THE PREMISE PHONON GOVERNMENTAL AGENTS.

THE EVERY AND REQUENTIONS OF THE PERMIT INDUNING GOVERNMENTAL AGENTS.

VALIEN PEOPERTY PLEEL 132.69 The state of the s FREEING ARELA. TWO STORY DE PENDS. 104.60 FEMILE FOR DA ELEKER PROPERTY. NOTE: 84' x 2' T NEW 545 121.48 CPEOPERTY LINE

LIS NOR EXCAVATED EARTH
CONSTRUCTION OF THE EAST AND
LIS ANY REVISIONS THERETO AND
LIS LOUISING GOVERNMENTAL ACTIONS



9455-25 54 WESTCHESTER AVE

Separate Sewerage System CERTIFICATE OF CONSTRUCTION	COMPLIANCE 94-35-18 WCDH File No. PR 75-25-7
wated at war // Allo	Section Block 7
eparate Sewerage System built by	of Konserve Address Place to fill the play
Consisting of	Gal. Masonry, Metal Septic Tank 187 lineal feet X 3 6 width trench
Other requirements	
Public Supply FromPrivate Supply Drilled By _	Address Date Permit Issued Oct. 8 11775
rosion Control Completed	Number of Bedrooms Date Permit Issued Set 8,1113
ther Requirements	A STATE COSTONIAL CONTRACTOR OF THE PARTY OF
rith the standards, rules and regulations, plans filed, a	premises were constructed essentially as shown on the plans of the completed work (copies of which are attached), and in accordance and the permit issued by the Westchester County Department of Health.
ate	Certified By ystem(s) shall promptly take such action as may be necessary to secure the correction of any unsanifary conditions resulting from a shall become null and void as soon as a public sanifary sewer becomes available and the approval of the private water supply shall
such usage. Approval of the separate sewerage system secome null and void when a public water supply become	modification or change shall be done under the supervision of a licensed Professional Engineer or Registered Architect.
uch usage. Approval of the separate sewerage system accome null and void when a public water supply bed evocation, modification or change is necessary, said	comes available. Such approvals are subject to modification or change when, in the judgment of the Commissioner of Health, such

.



TY OF WESTCHESTER DEPARTMENT OF HEALTH - Division of Environmental Health Services DESIGN DATA SHEET - SEPARATE SEWERAGE SYSTEM FILE NO. Located At (Street) Westchestes Ave (Indicate nearest cross street) Round Ridge My. Hatershed

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

		CLOCK	TIME		PERCO	LATTON	n en and a	'PERCOLATION
	Run No.		Stop	Elapse Time Min.	Depth to Walfrom Ground Start Inches	ter	Drop in	'Soil Rate 'Min/in.drop
	1	11:00	11:25	36	77	24	3	12
	2	11:36	12:09	33		14	2	1 /2
·	3	12:10	12:44	34	2.7	14	9	1 /7
1	4					entry in		
	5					in a second		1
	1							alamania kendua dikena masahari seri dari dari dari dari dari dari dari da
	2	11:02	11:40	38	1 2)	24	2	13
	<u>3</u>	11:40	12:16.	36	27	24	3	1/2
	4	17:16	12:52	36:	27	η,	,	/2
	5 '	-v						
	1							
	2 '				2			
	3 '							
	4				Action of the second of the se			
	5 1				9			

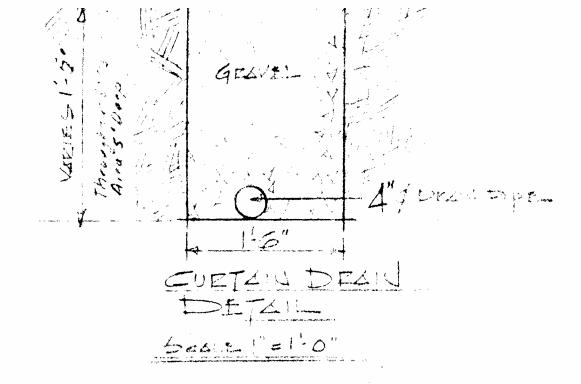
Notes:

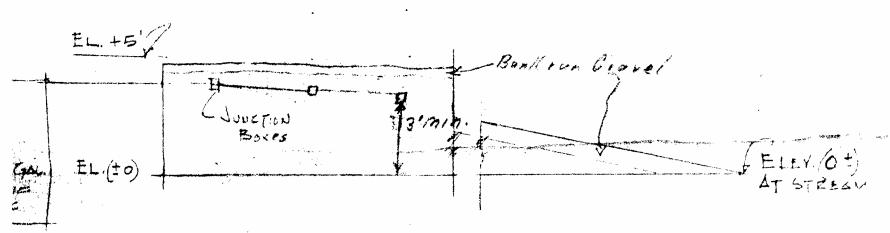
¹⁾ Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review. 2) Depth measurements to be made from top of hole.

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

EPTH	HOLE NO.	HOLE NO.	HOLE NO	HOLE NO.
.L.	Top Soit			
6 "	11	-		
12"	Sundy Luan	2	,	
18**				
24"				
30"				
36"				
42"	11.			
48"	11			
54"	//	w.C/a,		
60"	<i></i>	11		
66"	1/	//		
72"		()		*
78"	11	11		***
84"	Y	//		
INDICATE	LEVEL AT WHICH GREEN LEVEL FOR WHICH WARDE BY	AFER LEVEL, RISES	AFTER BEING ENC	OUNT 2 RED 3
-11 n		DESIG	:N	Double 2
oil Kat	e Used // -// sedrooms 600) allon/ Sep	_ Min/l" Drop: <i> doj</i> tic Tank Capacit	S.D. Usable Are	a Provided Org. Mason Metal
	on Area Provided B			PA 1
ane			Signature	Melle to sax m
ddress_	John P. Troy La. Radio	Annice 10506 rd, N	SEAL Y	No. 40230 HHER 275
estches	ter County Health	Department		CB ·
oil Rat	e Approved	Sq.Ft./Gal.	Checked by	Date

Address	Troy La.	na P. Annice 10:206 Redford, N
Westchester	County Hea	lth Department
Soil Rate A		Sq.Ft./Gal
5.D.27.6 (Re	ev. 5-22-73))





PEOFILE SEALE 1"=10.0"

ELEV. (ta)

NOTE:
1,000 GAL SEPTE TANK.
189' L.F. X 36" ABS.TZ.

Ø TEST HOLE.
+ Perc. Hole
309' of EURTAN DEXN 5 DEEP

	,	"B"
TIE TKNK	42'	54
CTION BOX "		
TION Box 4	161	154:6"

ACCEPTED

AS FINAL PLANS

DATE Sulve 26/976

WEST. CO. DEPT.

OF HEALTH

BY

REVISION AS BUILT JULY 13, 1976.

BARNWELL AGGOCG.

SEPERATE SEWAGE SYSTEM.

LOCATION: WCHESTER BO & TRINITY PAGGED

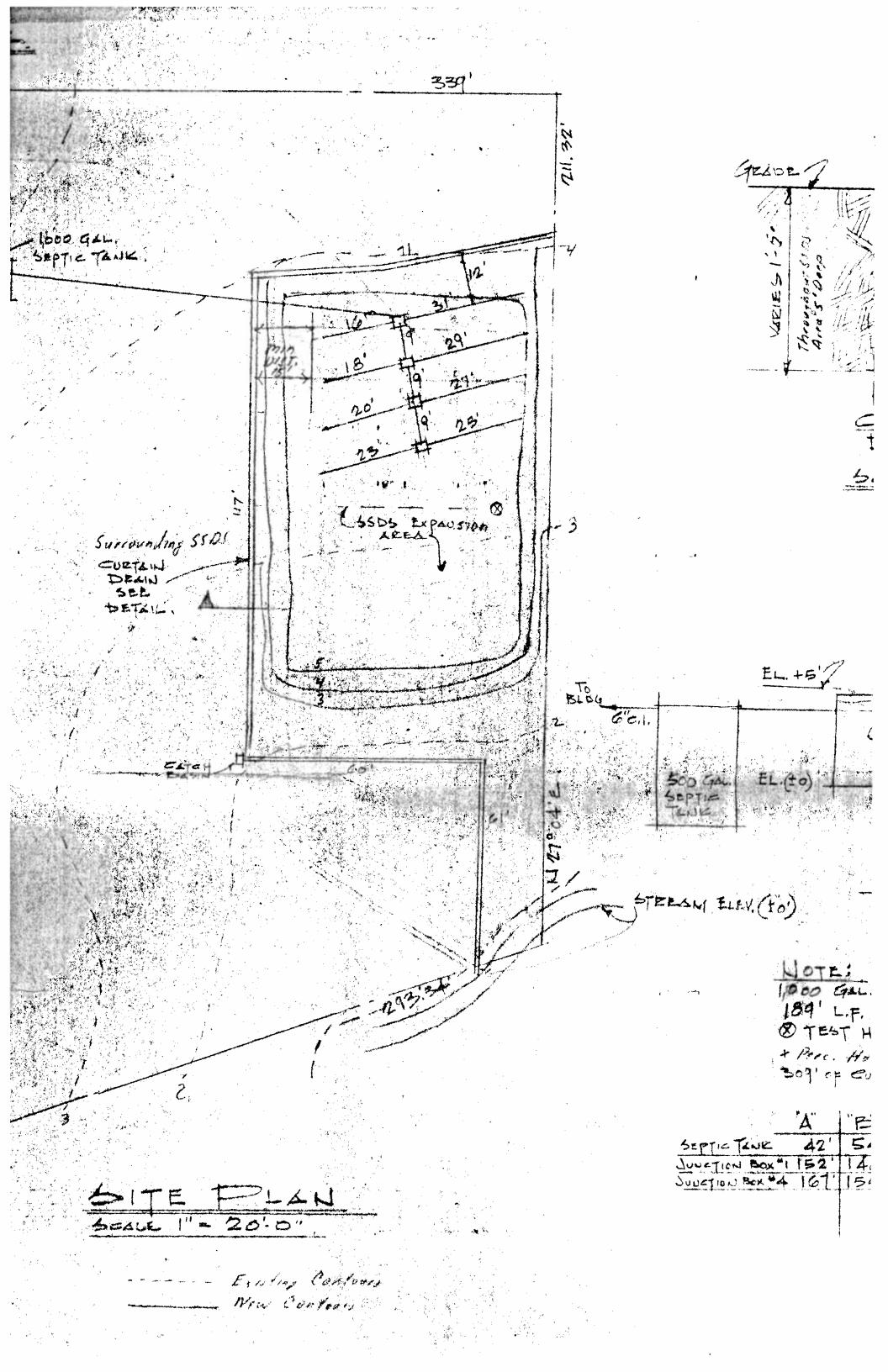
POUND RIDGE HEW YORK.

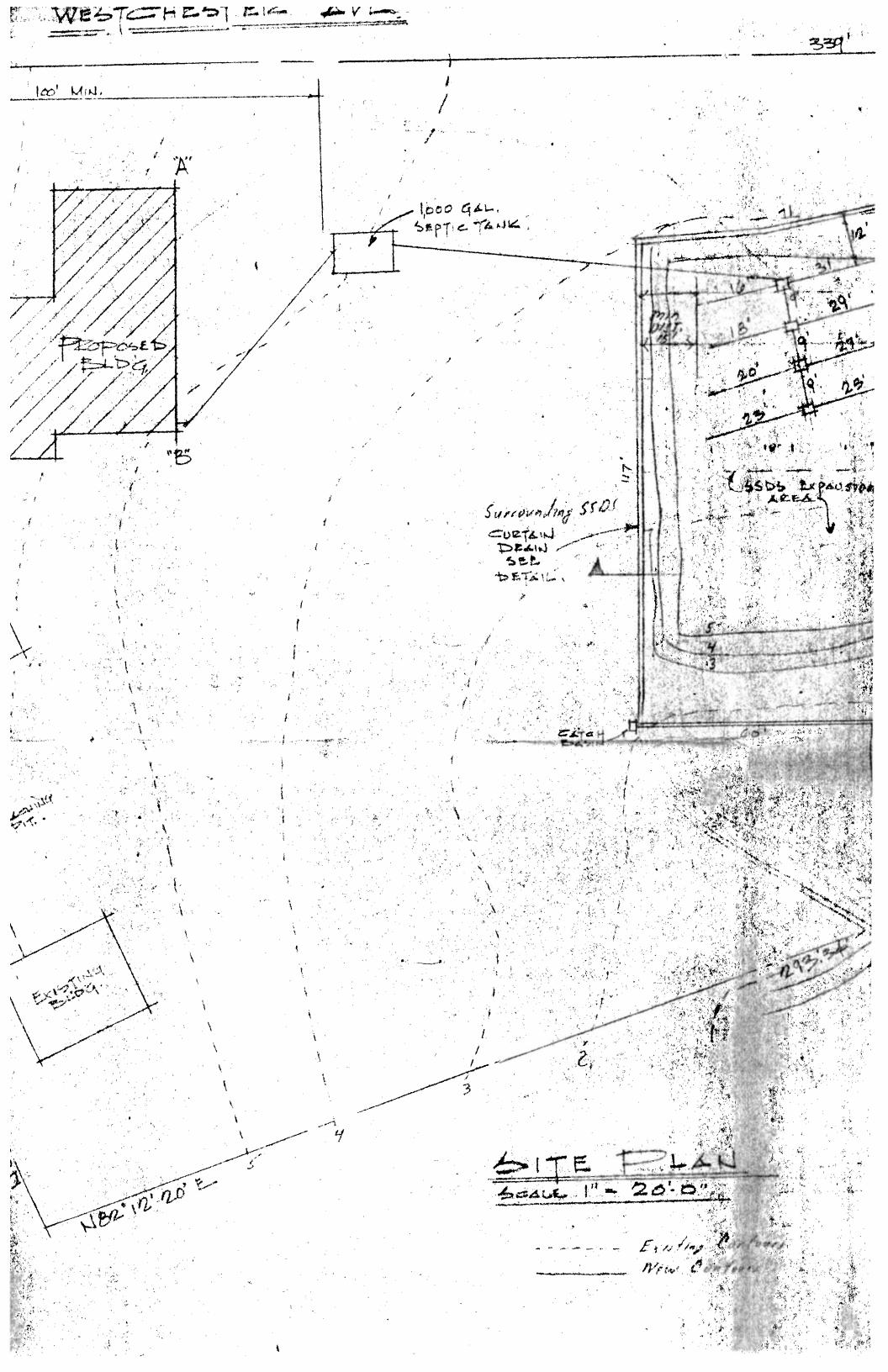
SECTION: 8 BLOCK! 9455 LOT: 24

DATE SEPT 18, 1975 SCOKE AS NOTED.

John P. Annicelli, P.E. Trov La. Bedford, N. 7, 10500







9455-25 54 WESTCHESTER AVE

Firsting
Sanarata Sawaraga System Private Water Sunniv Toundridge M.Y.
Separate Sewerage SystemPrivate Water Supply
CERTIFICATE OF CONSTRUCTION COMPLIANCE
X-10-1-4 A.10
Weschester Aue Section 2 Block 9453
17/4/0 Properfies
IPI + P - Ki 22 THEN IDE NO WELLING
Separate Sewerage System built by UMIO VO CONTROL Address 2 2 11 - 130119 91 200, 170, 171, 1714
Consisting of 2005 Gal, Masonry, Metal Septic Tank / lineal feet X width trench
ACOCUMUSTY FX
Other requirements None
Water Supply: Public Supply From Zaristing
5 Tokes word from home para paratitioned some for the
Building Type Date Permit Issued
Erosion Control Completed Waived
Other Requirements Business using min and water only
Other Requirements / Volume 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
I certify that the system(s) as listed serving the above premises were constructed essentially, as shown on the plans of the completed work (copies of which are attached), and in accordance
with the standards, rules and regulations, plans filed, and the permit issued by the Westchester County Department of Health.
Date May 20 1968 Certified By . Manley morticerasing in
Any person occupying premises served by the above system(s) shall promptly take such action as may be necessary to secure the correcting of any unganitan sometimes from
such usage. Approval of the separate sewerage system shall become null and void as soon as a public sanitary sewer becomes available and the approval of the private water supply shall
become null and void when a public water supply becomes available. Such approvals are subject to modification or change when, in the judgment to the commissioner of Health, such revocation, modification or change is necessary.
With proper maintenance these systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.
24 15 Have
Date William A. Brumfield, Jr., M. D., Commissioner By
SD 47.64 Westchester County Department of Health

DaugLAS MACKEY



KAISER - BATTISTONE, INC.

Sewage Systems Specialists

CLEANING
REPAIRS
IMSTALLATIONS
ELECTRIC POWER
DRAIN CLEANING
SEWAGE TREATMENT
PLANTS

ORINATION

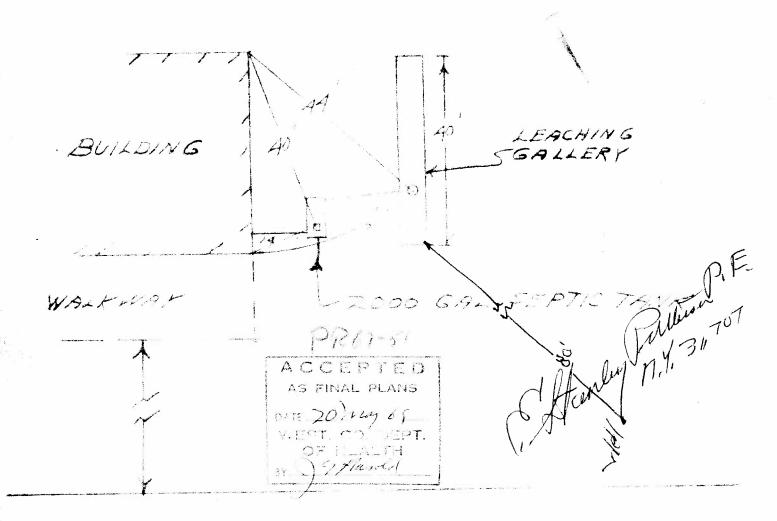
COUIPMENT

MAIN OFFICE: 18 GROVE STREET NEW CANAAN, CONN

PLUTO PROPERTIES WESTCHESTER AVE POUND RIDGE, N.Y. TELEPHONE 966-5656 NORWALK 866-5904

RIDGEFIELD 438-5500

APRIL 1968



WESTCHESTER

AVE

FONE 1420

DESIGN DATA SHEET - SEPARATE SELERAGE SYSTEM FILE NO. PIG 7-5/
Owner Plato Properties Fue Address 32 Mc Dougal Drive
Located At (Street) Westchester Goe (Trinity and Sec. 2 Block 9955Lot 25
(Indicate nearest cross stat)

Municipality Pound Ridge M. Y. Watershed Stamford, Cong.

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBLITTED WITH APPLICATION

II. I)							
Hole Number		CLOCK TI	ī.E		PERCOLATION			PERCOLATION
	Run No.	Start		Time	Depth to W From Groun Start Inches	ater	Drop in	Soil Rate
	1	12/27	12/37	10	191/2"	20/4"	3/4"	13 Min
	22	12:37	12,47	10	2014"	2034	1/2"	2 Min
On the second se	3	12/47	12:57	10	203/4	211/4"	1/2 "	20 Min
And the second s	4	12/57	1,07	10	21/4	213/4"	Y2 4	Zo Min'
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	2						######################################	entrina — in -nigrapidenteración co-ans. Administración por la companya de la com
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	4						Andrew Prijter (1984) i Lendbreit Begrieß (1984) erstelle sich betreit bei erne beginnig februit erst	
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	3	and the second of the second o						
		entropessigness (r dis-respectations);						The state of the s
	5	·						
	3							

Notes:

Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.
 Depth measurements to be made from top of hole.

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

DEPTH	HOLE NO.	HOLE NO.	HOLE NO.	HOLE NO.	
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12"	Yollow Sah soil	.:/			
	11 11 11				8
18"	1				á,
24"	prof.				•
30"	ompact				
36"	7 701			Contraction of the Contraction o	_
42"	auf		The state of the s		
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72"					****
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The second secon		and the second s	ESIGN		a.
				Area Provided 5000	pippenegiilib
No.	of BedroomsSep	otic Tank Capacity	2000 Gals. Maso	onryMetal	Bestimples
Abso	orption Area Provid	led ByL.F.x24	36"widt	x 5 x 5' h trench. Other	
N.	E. Stanley O	Patterson	Signature (/ / YN 97794-79, Y	P.E
A 3 3	ress 370 Scol	Beldhorn, Road		SIANLEY OF	
AGGI	Star	nford Conv	g Government	TOWARS TO	
We C	venesuor county He	alth Department	organis (EE dings) till och til de til och som gegling men hav med till film sind, om og dette med	POFFCCIONA	ragenegitari en temedita
	oil Rate approved_	* * *	Checked by_		
			Clans	showing 4 stores	y one clint
S.D). 27.6 (Rev. 5-24	-66)	suite	returned with	funct

Westchester gov.com

ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

70	_	ligh	Sta	ite: /	1, √.	Zip: 10576	
	NG M	Anagement,	uc			Indianasa and an ang gayagay.	
Owner Mailing	Address (No. &	Street) (if different):	P.O. Bo	× 107	7-	and the second s	
Town/ Village:_	Pounda	1015		State:	N.Y.	Zip: 10576	
Property Use:	[] Single Fam	ily [] Multi-Family [] In	idustrial 🗺 omn	termination of the second of t			
* * * *		cribe:	-				
7 iii .		**************************************			CASEM	£	
OWTS Remed	diation 🗆		,	W	CDH File #:	BEQ-2665	-14- MK
wastes or offens	ive material on all not include re	ation, replacement, or en failure, resulting in, or to the surface of the gro epairs, as defined above	und, into a storm to correct an O	m the dischant sewer, or in WTS failure	rge of sewage	والمراجي والمتراجي والمتحدث والمتحدث والمراجع المراجع والمتحدث	rect VAS ; rade
_	/ ~	plete the following	4				
Repair shall me treatment system	an the repair, m n components.	aintenance, and replace	ment in kind and		roken, damage	ed, or worn onsite waste	water
Number of Bedr	rooms	Number of Bathroo	oms:	W	rerSunalv.Pu	pe: Public 🗆 Well 🏅	
5. å	Please n	ote below only comp					•
	eplaced	*	Onches that ha	ive been ie	han en or re	piaced.	
Repaired R							
Repaired R	*						
Repaired R	☐ Hou	se Sewer or other Solid				BUILDING AND LOCATIO	
Repaired R	☐ Hou	ic Tank#1 Size(gallons):		OF WOR	RK PERFORMED ON BAC	
Repaired R	☐ Hou ☐ Sept ☐ Sept	ic Tank#1 Size(gallons ic Tank#2: Size (gallons): s):			RK PERFORMED ON BAC	
	Hou Sept	ic Tank#1 Size(gallons ic Tank#2: Size (gallons tion/Distribution Box(e): s): s)	t	OF WOR	RK PERFORMED ON BAC	
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Repair File #:REP (WCDH Staff only)

* 1

INSTALLED NEW 24"
DIA. METAL FRAMER COVER

|O| SEPTIE

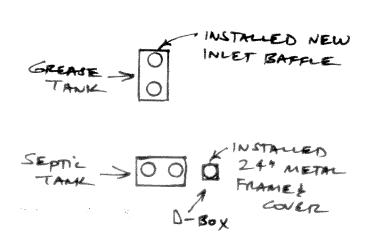
T-P > | TAMK

GALLEY'S

FRONT

BUILDING

BACK



Attention Vincent Silva

ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

Nomination &	wel Ridge
- · · · ·	TWO STEAMS FOR THE
	MNG MANAGEMENT LLC
	ess (No. & Street) (if different): 365 Route 304 Suite 204
Town/ Village:	the contract of the contract o
	ingle Family [] Multi-Family [] Industrial & Commercial
(ther - Describe:
OWTS Remedia	WCDH File #:
an OWTS failure, wastes or offensive	can installation, replacement, or expansion of onsite wastewater treatment system components to correct impending failure, resulting in, or that may result in, the discharge of sewage or domestic wastes or trade laterial on to the surface of the ground, into a storm sewer, or into a watercourse or water body. It include repairs, as defined above, to correct an OWTS failure.
	OR
OWTS Repair	Complete the following information.
Repair shall mean treatment system o	prepair, maintenance, and replacement in kind and in situ; of broken, damaged, or worn onsite wastewater aponents.
Number of Bedroo	Number of Bathrooms: Water Supply Type: Public Well
	Please note below only components that have been repaired or replaced.
Repaired Rep	
Contractor's Name	House Sewer or other Solid Pipe(s) Septic Tank#1 Size(gallons): Septic Tank#2: Size (gallons): Junction/Distribution Box(es) Sewage Pump(s) or other Dosing Equipment Absorption Trench Length ft. X Trench Width ft Seepage Pit(s) Galley(s) Gravelless Trench(es) 75-A Alternative System Other Advanced Alternative System Other System Component(s) - Describe: The Chambers in grood constitution Other System Component(s) - Describe: The Chambers in grood constitution Explain All broken Chambers in Joseph Same ire System Replaced (Sketch attriched) Date Repair/Remediation Completed:
Contractor's Signati	
Upon completion pl	
- p	Weichester County Department of Health- BEQ 145 Huguenot Street-7th Floor New Rochelle, NY 10801

Attn: Patricia Tomello-Adams

Repair File #: REP

FROM :

FAX NO. :

The first of the first of the party of the supplied that the

Jan. 25 2007 03:24AM P1

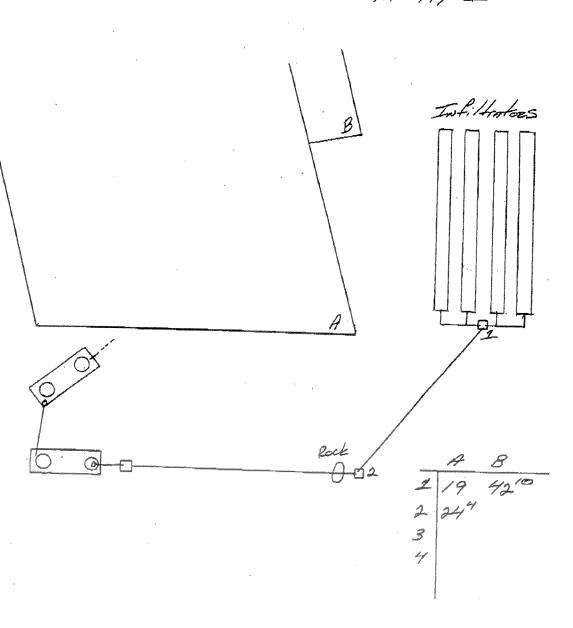


KATONAH SEPTIC, LLC.

WILLIAM J. POCHINTESTA 12 ANDERSON RD. KATONAH, NY 10536 (914) 232-6010



54 Westchester Av. Pound Richer My 43/1 03/17 09



9455-27 38 WESTCHESTER AVE



Westchester County Department of Health Bureau of Environmental Quality

WCDH File No. PR2007-18 Municipality: Tn Pound Ridge X Separate Sewage System X Private Water Supply
CERTIFICATE OF CONSTRUCTION COMPLIANCE:
Watershed Basin: L.I. Sound
Located at: 38 Westchester Avenue Section: 8
Owner Last Name: Ferrara Owner First Name: Thomas Lot: 27 R.S. Lot:
Separate Sewage System to Consist of:
Septic Tank Size: 1,000 Gallons Trench Length: 34 Lin.Ft. X Trench Width: 24 Inches Other Requirements:
Building Type: Office Building # of Bedrooms 0 Date Permit Issued: 10/19/07
Erosion Control (EC) Completed Voc
Other Requirements: EC Waived
Separate Sewage Contractor (SSC): Francher TWC # 159
Water Supply: Public Water Supply Public Water Source:
Well Driller (WD) Company Name: TORLISH + SONS WATER METER INSTAULED AS REQUIRES.
I certify that the system(s) as listed serving the above premises were constructed as shown on the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regularions, plans filed, and the permit issued by
Date: 5/9/08 Certified by: Theodore t. Stauss
iny person occupying premises served by the above system(s) shall promptly take unaction as may be necessary to secure ecome null and void as soon as a public sanitary sewer becomes available and the approval of the separate system shall ecome null and void when a public water supply becomes available. Such approvals are subject to modification or change change shall be done under the supervision of a licensed Professional Engineer or Registered Architect. With proper aintenance the systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.
now person occupying premises served by the above system(s) shall promptly take unraction as any be necessary to secure ecome null and void as soon as a public sanitary sewer becomes available and the approval of the separate sewer shall ecome null and void when a public water supply becomes available. Such approval of the private water supply shall hen, in the judgement of the Commissioner of Health, such revocation, modification or change in personal in pe
iny person occupying premises served by the above system(s) shall promptly lake unraction as the correction of any unsanitary conditions resulting from such usage. Approved of the separate section as a public sanitary sewer becomes available and the approval of the separate section shall ecome null and void when a public water supply becomes available. Such approvals are subject to modification or change change shall be done under the supervision of a licensed Professional Engineer or Registered Architect. With proper aintenance the systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.



Westchester County Department of Health

Bureau of Environmental Quality

WELL COMPLETION REPORT:

WCDH File No. PR2007-18

This report is to be completed by well driller and submitted to Health Department, together with laboratory report of analysis of water sample indicating water is of satisfactory bacterial quality, before certificate of construction compliance is issued.

Well construction to be in accordance with Bulletin SD-62, "RULES AND REGULATIONS RELATING TO INDIVIDUAL WATER SUPPLIES"	
Located at: 38 Westchesten Avenue	
Well Location Municipality: In of Pound Ridge Block: 9455	
Owner Last Name: [Z /]	
St. #: 38 St. Name: West Municipality:	
Well Driller (WD) Company Name: Mest Municipality: In Pound Ri State: NY Zip Code: 10576	
30N	
Well Pit and Pump Equipment Details: Pitless Adapter. Other - Describe:	
Pump Type: Cubus 17	
Storage Tank Type: Well A Trol Storage Tank Capacity: Wallow Pump GPM: 5	
Casing Length: 35 Ft Viold Town	
Casing Diameter / In Wield T. (2) Measured from Land Surface:	
Casing Material: Casing Material: Gasing	
Well Field . 5 G.P.M. Water Level Pumped : 1/02 Fi	
Screen Diameter: In.	
Screen Length · 5	
Ft.	
WELL LOG: Give description of formation panets to the second seco	
Depth From Ground Surface Give description of formation penetrated, such as: peat, silt, sand, gravel, clay, hardpan, shale, sandstone, granite, etc. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard). For example: Off. to 27 ft. fine, packed, yellow sand; 27 ft. to 134 ft. gray granite.	
6 Ft to 7 Ft Woll Coats	
7 Ft to 17 Ft Wall a .	
13 Ft to Cot Ft Will a will stark KUN Gravel	
Well Geology, 3rd Strata: GRAN GRANITE	
Train Geology, 4th Strata :	
Ft. to Ft. Well Geology, 5th Strata:	
Ft. to Ft. Well Geology, 5th Strata:	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health.	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin Date Well Was Completed: 4808 Date of Signature: (a) 11, 538	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin Date Well Was Completed: Well Geology, 5th Strata: Date of Signature: Date of Signature: DEC 10318	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health. Date Well Was Completed: 4707 Date of Signature: 6/16/07 DEC 10318 Sworn to before me this day	
Ft. to Ft. Well Geology, 5th Strata: Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health. Date Well Was Completed:	
Ft. to Ft. Well Geology, 4th Strata: Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin	

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality 118 North Bedford Road Mount Kisco, NY 10549

DESIGN DATA SHEET - SEPARATE SEWAGE SYST	EM FI	ILE NO.			
Owner Thomas Ferrarya/Sarah Becker Address 38	Westchest	er Aven	iue,	Scotts	Corners
Located at (Street)	Sec8				
(Indicate nearest cross street) Municipality Town of Poundridge	_ Watershed	•		Lot	
SOIL PERCOLATION TEST DATA REQUIRED TO BE			PPI IC	ATION	•
Presoak Date: 3/27/07	Run Date:	3/28/0		ATION	

Hole #		CLOC	pr	ERCOLATION				
Hole Number	Run No.	g.		Elapse Time	Depth From Grow Start	to Water and Surface Stop	Water Level Drop In	Soil Rate Min/in
1	1	Start 11:59	Stop	Min.	Inches	Inches	Inches	Drop
	2	- i - ,	12:16	17	20	23	3	17/3=5.6
	:	12:18	12:37	19	20	23	3	19/3=6.3
	3	12:39	1:03	24	20	23	3	24/3=8.0
		1:05	1::30	25	20	23	3	ı
	5	1:32	1::57	25	20	23	3	25/3=8.3 25/3=8.3
2	1	12:02	12:21	19	20	23	***************************************	
	2	12:24	12:48	24	20	23	3	19/3=6.33
6 8 8	3	12:50	1.10				3	24/3=8.00
	4	1:20	1:16	26	20	23	3	26/3=8.67
\$	5	1:20	1:46	26	20	23	3	26/3=8.67
3		12:04	12:25	21				
8 P E	2	12:29	12:51	24	20	23	3	21/3=7.00
	3	*	1	- 4	20	23	3	24/3=8.00
3 3 3	4	12:54	1:20	26	20	23	3	26/3=8.67
	5	1:22	1:48	26	20	23	3	26/3=8.67
<u> </u>			7 8 8			ŧ		

Perc test done by: Theodore L. Strauss

Notes:

^{1.} Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

^{2.} Depth measurements to be made from top of hole. DO NOT REPORT INCREMENTS OF I FEE
THAN ONE INCH

	TEST PIT DATA	REQUIRED TO BE SUE	MITTED WITH APPLIC NTERED IN TEST HOLE	ATION
DEPTH	HOLE NO. 1	HOLE NO. 2	HOLE NO. 3	HOLE NO.
G.L.	Topsoil	Topsoil	Topsoil	***************************************
6"	Topsoil +	Topsoil	Topsoil	
12"	Sandy Loam	C d 1	6 1 1	
18"	u Loani	Sandy Loam	Sandy Loam	
24"	II	11	n	工
30"	Fine graded sa	and with small to	modium stopes	
36"	ıı	u with Small to	n stones	
42"	II	н	11	H 2 C
48"	. If	11	11	TA TA
54"	II .	11	II	PAAR 1
60"	11	11	11	
66"	II .	II II	11	
72"	Water	Water	Water	-
78"				
84"	3,	,		
NDICATI NDICATI DEEPTES	ED LEVEL FOR WE	H GROUND WATER IS IICH WATER LEVEL R L. Strauss DESIGN	ISES AFTER BEING EN DATE OF DEEP TEST	COUNTRED 66" CS 3/20/07
		· ·	Usable Area Provided Gals. Masonry X	
bsorption	Area Prov. by 150	L.F. x 24" width	trench. Other	STERED ARCAN
	race Lynch		Signature Signature	
ddress 6	3 Moore Avenue t.' Kisco, NY,	10549	Seal	031180 10E OF NEW
estchester	County Health Dep	artment		OF NEW
oil Rate A	pproved	Sq. Ft./Gal	Checked by	
D. 27.6				

84"	
WAS GROUNDWATER ENCOUNTERED INDICATE LEVEL AT WHICH GROUND WATER LINDICATED LEVEL FOR WHICH WATER LINDEEPTEST MADE BY T. L. Strauss	
D	ESIGN
Soil Rate Used 8-10 Min/1" Drop:	S.D. Usable Area Provided 4,500 s.f.
No. of Bedrooms Septic Tank Capacity	1,00 Gals. Masonry X Metal
Absorption Area Prov. by 150 L.F. x 24"	// CHLD 7
NameGrace Lynch	Signature Signature
Address 63 Moore Avenue	Seal
Mt.' Kisco, NY, 10549	OF NE
Westchester County Health Department	OF NE
Soil Rate Approved Sq. Ft./Gal	Checked by
S.D. 27.6 4/98	



avenue · mount kisco · new vork · 10549 · 914-241-3354

27 August 2008

WESTCHESTER COUNTY DEPARTMENT OF HEALTH 118 North Bedford Road, Mt. Kisco, NY, 10549

RE: Permit No. PR 2007-18 - 38 Westchester Avenue, Poundridge, NY.

Dear Fred,

Pursuant to your request, and the condition of the above referenced permit for the installation of the well and septic system, specifically the installation of a water mandewater use meter, I have inspected the building and found same to be properly installed on the lower level.

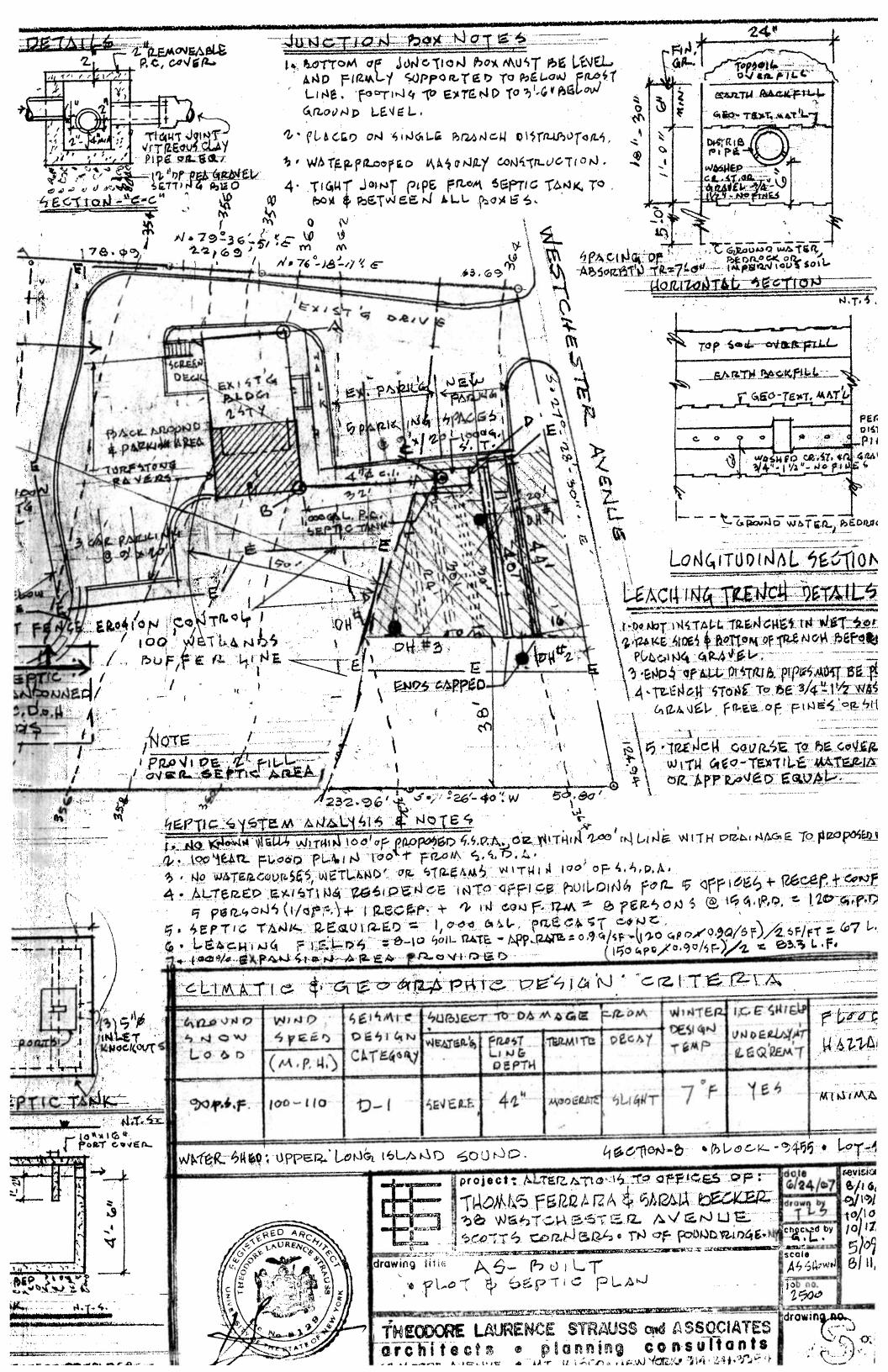
Trusting that the above provides the certification and verification of

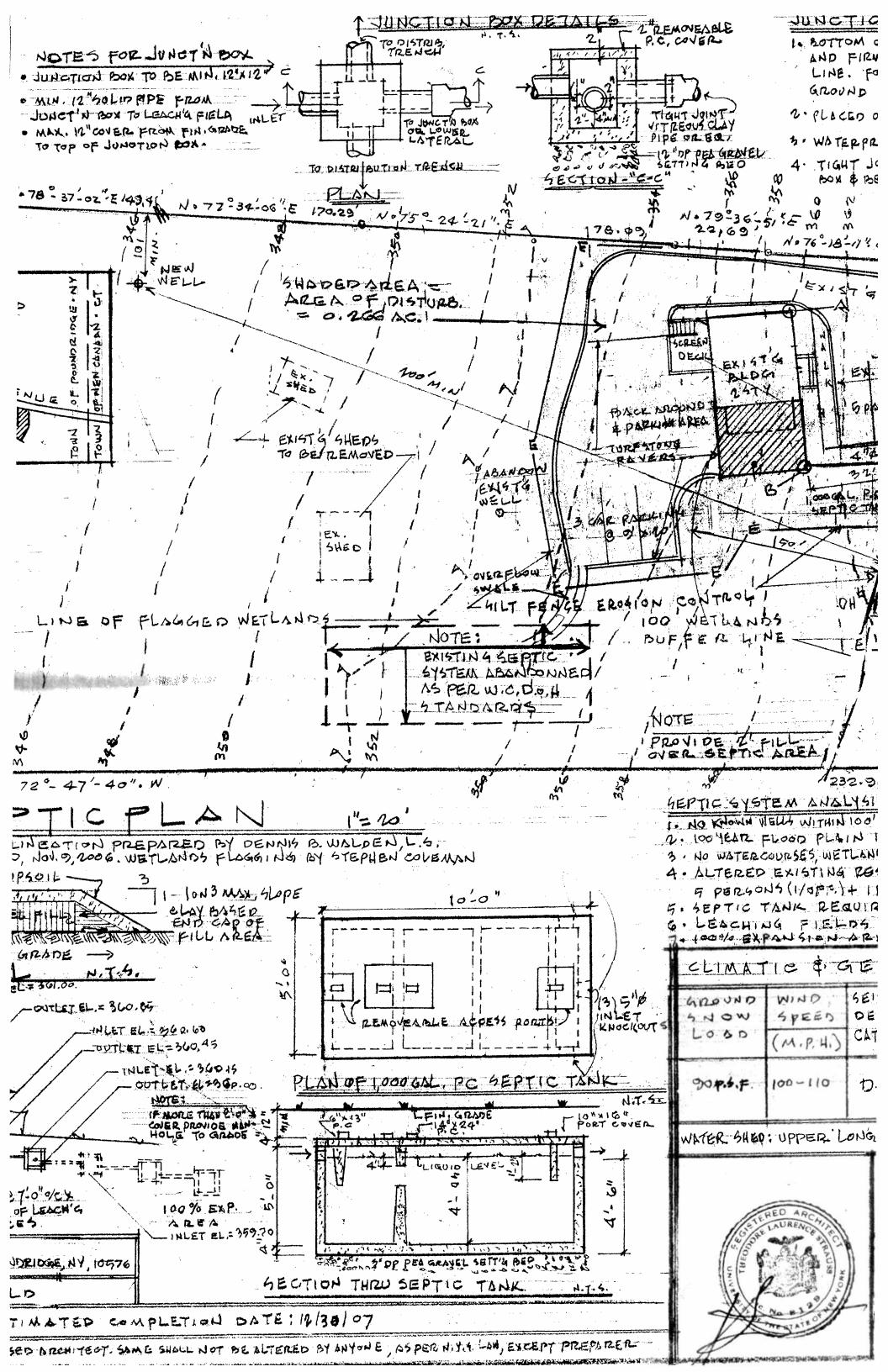
this item requested.

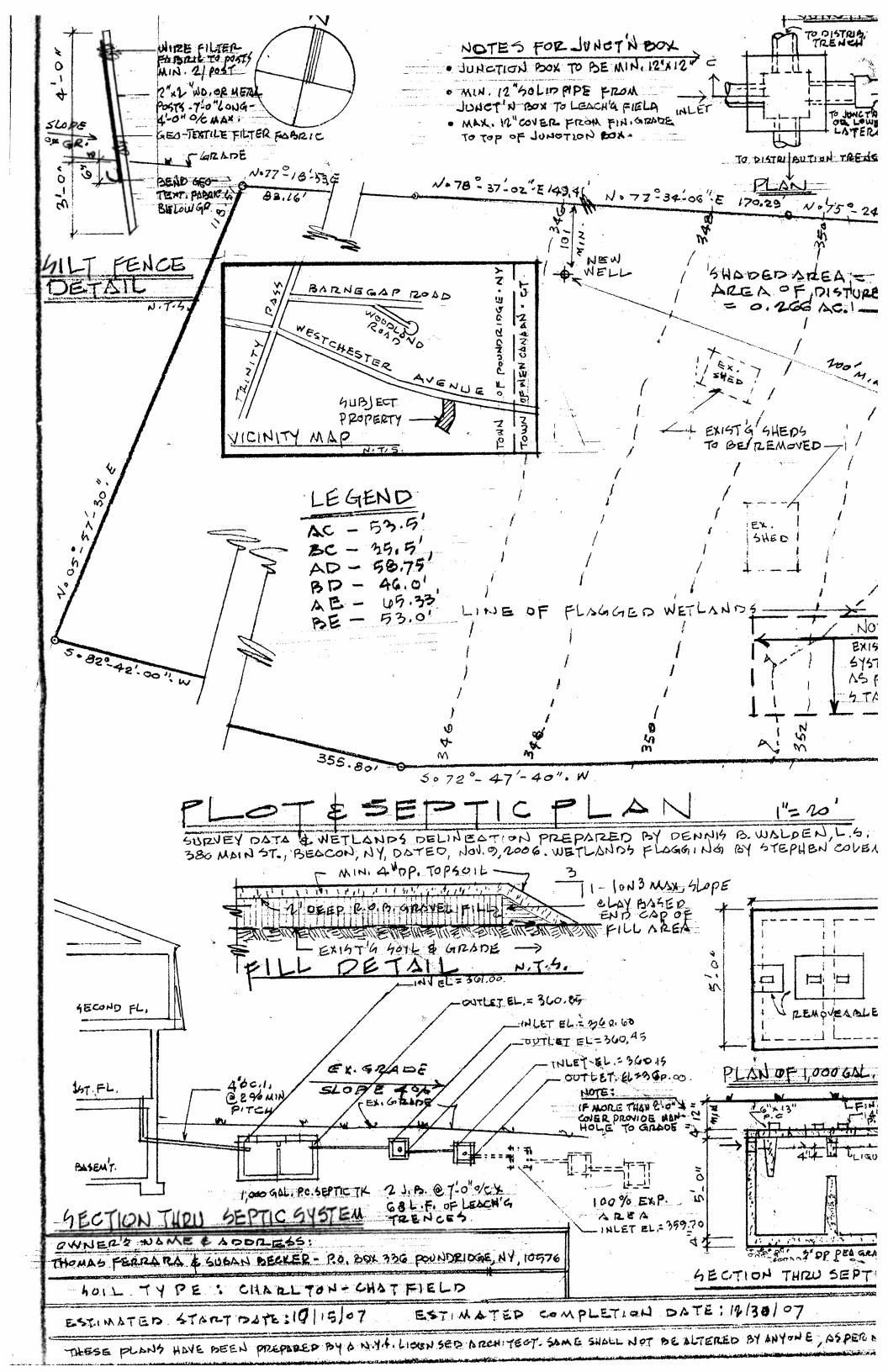
Westchester gov.com

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality

Bureau of Environme	ental Quality
PERMI	T NUMBER: PRZ 357-17
Name: Ferrent Becker	Municipality: Pono Rilx
Description: 150 GPO Max - sefic	e lust only SSTS
+ WELL (W/ meter)	
# of Sheets: ONC (1)	
- · · · · · · · · · · · · · · · · · · ·	
Reviewed by:	
	Date
Recommended by	
East	1 2 3







9456-1.9 55 WESTCHESTER AVE

SITE LOCATION PLAN SCALE: 1" . 2400 +

(402) ___ EXISTING GRADE

TEM #2

TOP		INVERT	
7D 2	@ DIST. FIFE END	ĪN	оит
		416.64	416.54
		416.49	416.39
		416.00	415.73
	416.33	415.66	
:	416.13	415.46	
	415.57	414.90	
	411.89	411.23	
	408.93	408.26	-united
	405.98	405.31	
-			



POUND RIDGE

NEW YORK

CLIENT:

RPS REALTY TRUST

733 THIRD AVENUE

NEW YORK

NY 10017



LAURENT ENGINEERING ASSOCIATES, P.C.

MILLBROOKE OFFICE CENTRE Route 22 & Milltown Road Brewster, New York 10509 (914)278-6108 - (FAX) 278-2658 CONSULTING SITE ENGINEERS

DRAWING TITLE :

AS - BUILT PLAN



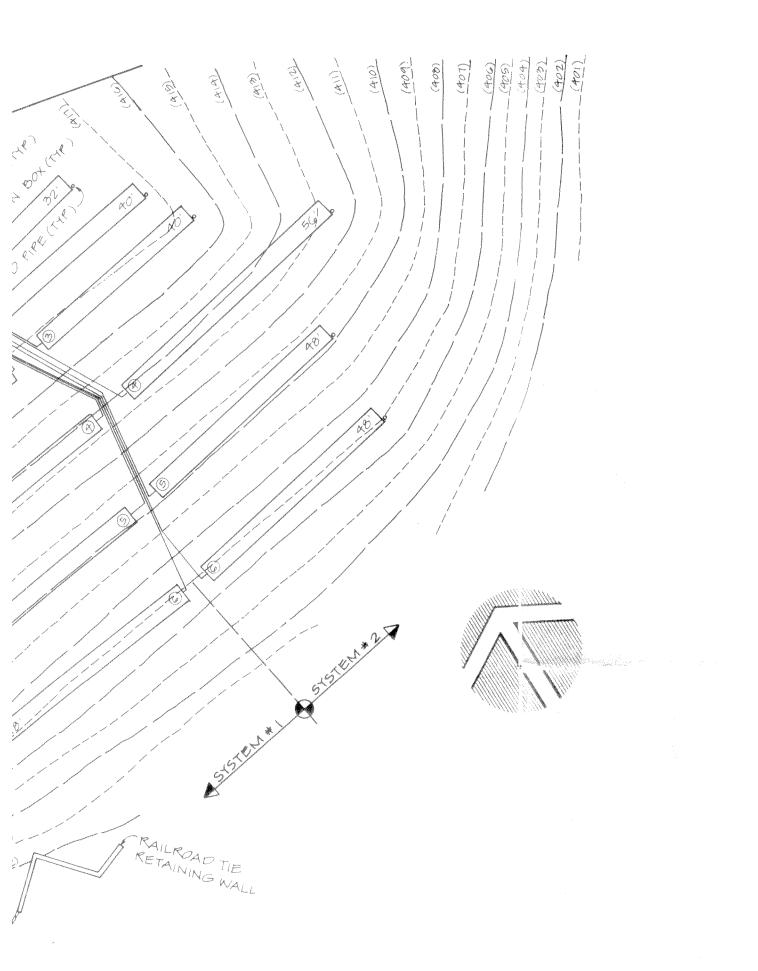
SCALE :	1' = 20'
DATE:	11 29 93
DRAWN BY !	TK

RWL CHECKED BY :

DRAWING No. 1

JOB No. 1

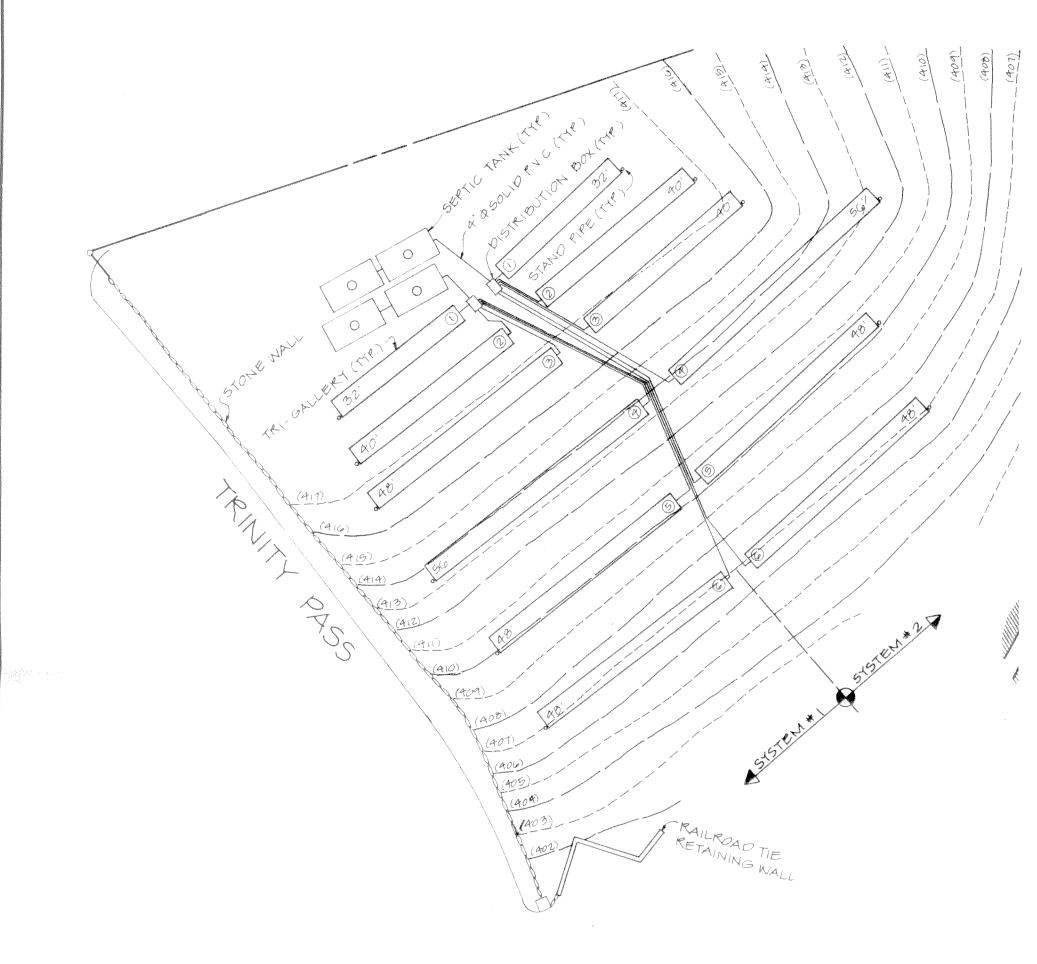
92089



SYSTEM #2

INVERT		
IN	OUT	
416.45	416.27	
416.24	416.15	
416.00	415.73	
415.65		
415.40		
414.96	Survival	
411.37		
408.29	Section of the sectio	
405.33		
405.33	4000	

The state of the s				
	TOP		INVERT	
	3 STAND PIFE END	@ DIST. PIPE END	IN	OUT
1st SEPTIC TANK	aministra habornio. Vinnesso este persona malari est di basin descripción de muero esta establica de consenta y sectorio.	And the consequence of the contract of the con	416.64	416.54
2nd SEPTIC TANK	as trape	,A-Nacion	416.49	416.39
DISTRIBUTION BOX	at com	35664	416.00	415.73
TRI-GALLERY #1	416.27	416.33	415.66	, constitution
TRI-GALLERY #2	116.11	416.13	415.46	opport of p
TRI-GALLERY #3	415.55	415.57	414.90	AND THE PROPERTY OF THE PROPER
TRI-GALLERY #4	411.86	411.89	411.23	Proposed State of Control of Cont
TRI-GALLERY #5	408.96	408.93	408.26	Section of the sectio
TRI-GALLERY #6	405.92	405.98	405.31	



SYSTEM #1

	TOP		INVERT	
	@ STAND PIPE END	@ DIST. PIFE END	IN	out
1st SEFTIC TANK	Allante	and the same of th	416.45	416.27
2nd SEPTIC TANK	, some	an wer	416.24	416.15
DISTRIBUTION BOX	Aprilia	-9A0081	416.00	415.73
TRI-GALLERY #1	416.26	416.32	415.65	And the state of t
TRI-GALLERY #2	416.15	416.07	415.40	10000
TRI-GALLERY #3	415.59	415.63	414.96	*****
TRI-GALLERY #4	411.90	412.04	411.37	proses
TRI-GALLERY #5	408.94	408.96	408.29	should
TRI-GALLERY #6	405.91	406.00	405.33	

1st SEPTIC TANK
2nd SEPTIC TANK
DISTRIBUTION BOX
TRI-GALLERY #1
TRI-GALLERY #2
TRI-GALLERY #3
TRI-GALLERY #4
TRI-GALLERY #5
TRI-GALLERY #6
$b_{ij} = (a_{ij} + a_{ij} + $

9456-5 29 WESTCHESTER AVE



Westchester County Department of Health Bureau of Environmental Quality

WCDH File: PR 2007-13 Municipality: POUND RIDGE	
New System "A"-Serving Bldg. 1 Former Permit # PR2006-01	
Separate Sewage System Private Water Supply Private Water Supply	Commercial
CERTIFICATE OF CONSTRUCTION COMPLIANCE:	
Watershed Basin : ST	TAMFORD
Property Address: 29 WESTCHESTER AVENUE Section: 9	Block: 9456
Owner Last Name: AHOME First Name: Lot: 5A	R.S. Lot:
Owner's Address: 185 KISCO AVENUE, MT. KISCO, NY 10549	
Separate Sewage System to Consist of:	
48" x 18" Flow Diffusors	
Septic Tank Size: 1500 Gallons Trench Length: 216 Lin. Ft. X Trench Width:	72 Inches
Other Requirements: 1250 gal holding tank, recirculation & pump chamber w/ 1/2 hp Pump - p	
Building Type: Senior Housing # of Bedrooms ** Date Permit Iss	-
** 6 Suites w/ Max. 8 Occupants Erosion Control (EC) Completed Yes	□EC Waived
Other Requirements: Advantex AX-20 filter have not been required or approved by the WCH	ID.
	100110 1: 1: " 392
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio	/CDH Septic License # 392
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio Water Supply:	/CDH Septic License # 392
	/CDH Septic License # 392
Water Supply:	/CDH Septic License # 392 NYDEC Reg. #
Water Supply: ☐ Private Water Supply ☐ Public Water Source: Existing Well Well Driller (WD) Company Name:	NYDEC Reg. #
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed.	NYDEC Reg. #
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health.	NYDEC Reg. #
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: 11 7 88 Certified by P.E. License #: Any person occupying premises served by the above system(s) shall promptly take such action as may	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: // / 8 Certified by: P.E. License #: Any person occupying premises served by the above system(s) shall promptly take such action as may correction of any unsanitary conditions resulting from such usage. Approval of the separate sewerages as soon as a public sanitary sewer becomes available and the approval of the private water supply shall.	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the system shall become null and void become null and void when a
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: // / // Certified by: Any person occupying premises served by the above system(s) shall promptly take such action as may correction of any unsanitary conditions resulting from such usage. Approval of the separate sewerage as soon as a public sanitary sewer becomes available and the approval of the private water supply shall public water supply becomes available. Such approvals are subject to modification or change when, in of Health, such revocation, modification or change is necessary, said modification or change shall be delicensed Professional Engineer or Registered Architect. With proper maintenance the systems can be delicensed.	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the system shall become null and void become null and void when a the judgment of the Commissioner one under the supervision of a
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Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: // / // Certified by: Any person occupying premises served by the above system(s) shall promptly take such action as may correction of any unsanitary conditions resulting from such usage. Approval of the separate sewerage as soon as a public sanitary sewer becomes available and the approval of the private water supply shall public water supply becomes available. Such approvals are subject to modification or change when, in of Health, such revocation, modification or change is necessary, said modification or change shall be delicensed Professional Engineer or Registered Architect. With proper maintenance the systems can be delicensed.	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the system shall become null and void become null and void when a the judgment of the Commissioner one under the supervision of a

PUMP VOLUME:

9.77 gal/in x 21.5 in =

210 gal/cycle

SYSTEM TESTED ON 10/30/08 WITH WCHD.

A 'B' - BUILDING 2 - WCHD Permit # PR2007-14 XISTING SSDS UNDER WCHD 8-13-79 APPROVAL

GAL. PRECAST CONCRETE SEPTIC TANK

EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL.

DA, DISTRIBUTION BOX

GAL PRECAST CONCRETE HOLDING TANK

IONAL IMPROVEMENTS:

NTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD)

SYSTEM "B"

PUMP CHAMBER - VOLUME 215 GALLONS/CYCLE

PUMP CHAMBER SIZE

43' 🗙 70

CAPACITY:

20.9 cf/h 1.74 cf/in 13.02 gal/in

PUMP OF CLE DEPTH:

16.5"

PUMP VOLUME:

13.02 gal/in x 16.5 in =

215 gal/cycle

SYSTEM TESTED ON 10/30/08 WITH WCHD.



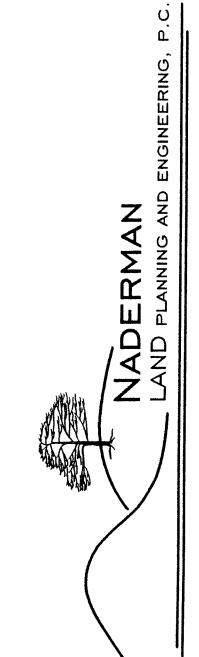
4" WCHD PERMIT # PR2007-13
3" WCHD PERMIT # PR2007-14

1	REV. EXIST. WELL	11/17/08
No.	Revision/Issue	Date

914.245.5403 914.962.5963

tē.:

bgn@naderman.com



3799 nelson ave. box 7 jefferson valley, ny 10535

A - HOME SCOTTS RIDGE DEVELOPMENT

29 WESTCHESTER AVENUE

TOWN OF POUND RIDGE

WESTCHESTER CO., NY

"AS-BUILT"

RECORD PLAN SUBSURFACE SEWAGE DISPOSAL SYSTEM

Project	5349	Sheet
Date	11-07-08	RP-1A
Scale	1"= 30	

location based upon a survey

e upon field inspection and

of the new SSTS nor to remain the new SSTS.

of the proposed will nor within 200' the general line of drainage from

with the Rules and Regulations for rface Sewage Treatment Systems

uction of the OWTS and certifies its plans.

1 Basin.

XO feet of the new SDS.

NOTES

1.) APPLICANT/ OWNER: A - HOME

ADDRESS: 185 KISCO AVE., SUITE 4, MOUNT KISCO, NY 10549
PROPERTY LOCATION: 29 WESTCHESTER AVE., POUND RIDGE, NY 10576

TAX MAP DESIGNATION: SHEET: SEC. 9 BLK. 9456 LOT 5A

MAX. 8 OCCUPANTS X 75 GPD/ OCCUPANT = 600 GPD DESIGN FLOW/ BLDG.

5.) THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL CONSIST OF THE FOLLOWING IMPROVEMENTS:

SYSTEM 'A' - BUILDING 1 - WCHD Permit # PR2007-13

216	L.F., 48" WIDE FLOW DIFFUSOR LEACHING CHAMBER
1500	GAL. PRECAST CONCRETE SEPTIC TANK
1	EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 210 GAL
1	EA, DISTRIBUTION BOX
1000	GAL. PRECAST CONCRETE HOLDING TANK

ADDITIONAL IMPROVEMENTS:

ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD) 18" - 24" ROB FILL WITHIN PRIMARY AREA 'A'

SYSTEM "A"

PUMP CHAMBER - VOLUME 210 GALLONS/CYCLE

PUMP CHAMBER SIZE: 37" x 61"

CAPACITY:

15.67 cf/ft

1.3 cf/in 9.77 gal/in

PUMP CYCLE DEPTH:

21.5"

PUMP VOLUME:

9.77 gal/in x 21.5 in =

210 gal/cycle

SYSTEM TESTED ON 10/30/08 WITH WCHD.

SYSTEM 'B' - BUILDING 2 - WCHD Permit # PR2007-14 EXISTING SSDS UNDER WCHD 8-13-79 APPROVAL

GAL. PRECAST CONCRETE SEPTIC TANK

1
EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL.

-- EA. DISTRIBUTION BOX

GAL PRECAST CONCRETE HOLDING TANK

ADDITIONAL IMPROVEMENTS:

ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD)

PUMP CHAMBER - VOLUME 215 GALLONS/CYCLE

PUMP CHAMBER SIZE.

43' 70"

CAPACITY:

20.9 cf/h 1.74 cf/in 13.02 gal/in

PUMP CYCLE DEPTH:

16.5"

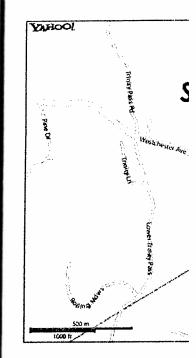
PUMP VOLUME:

13.02 gal/in x 16.5 in =

215 gal/cycle

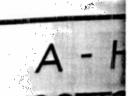
SYSTEM TESTED ON 10/30/08 WITH WCHD.

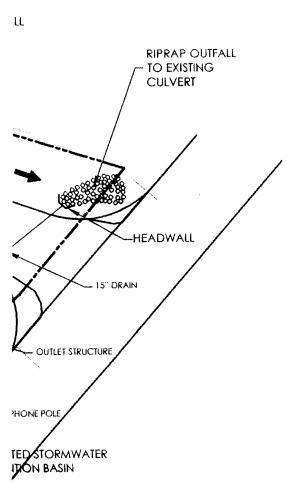
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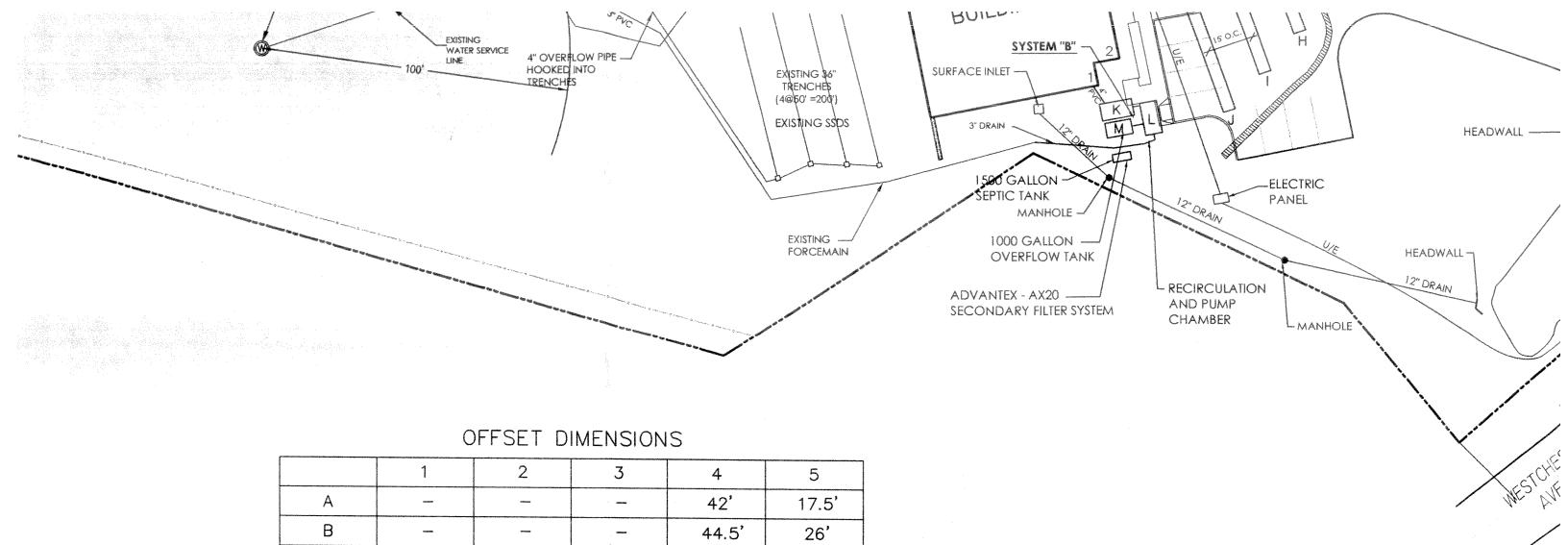


	T .
1 -	REV EXIST.
No.	Revis









23.5'

-

35.5

27.5

-

24'

24.5

40.5

56'

74'

68'

67.5

53.5

68'

81.5

61.5

49'

40'

17'

22'

23'

10'

20'

15.5

С

D

E

F

G

H

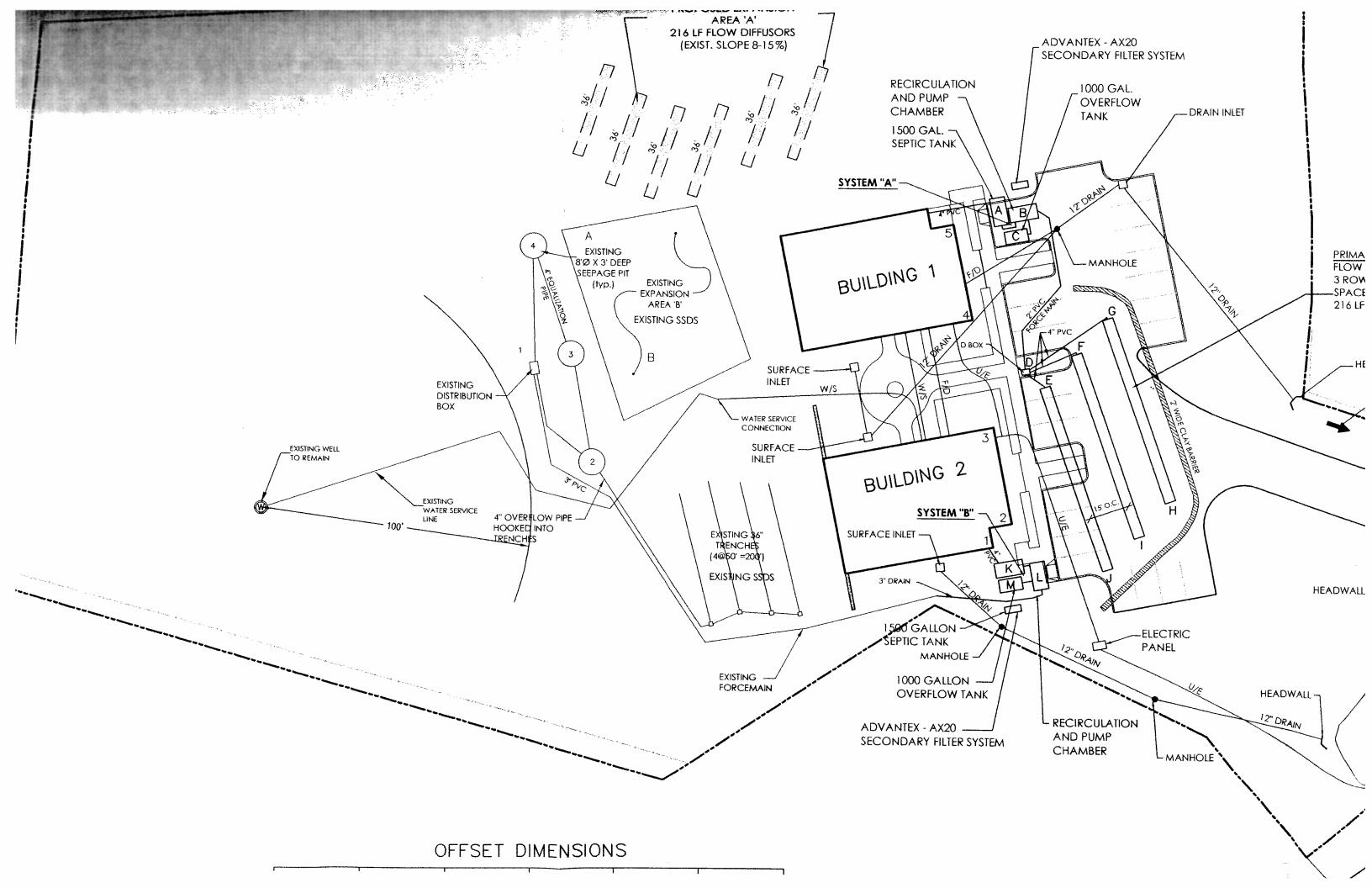
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PLAN SCALE: 1" = 30'

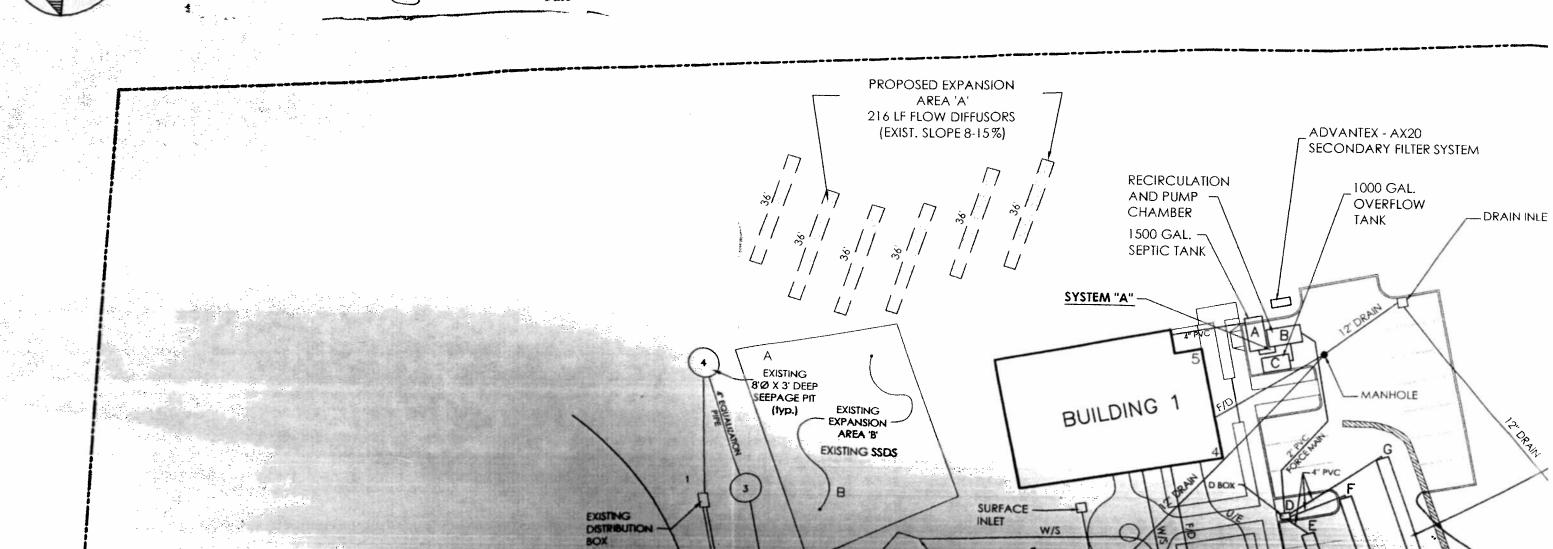


Westchester ov.com

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality

PERMIT NUMBER: Pt 2007-13

Name: Jan Arade, A Home Muni Description: New SSTS T- Serve	cipality: Pomo kily
MAX FLOW 600 APD	
# of Sheets: ONE (1)	
Are hereby accepted a 873, Article VIII, Sect of the Westchester County markety Contents of the Certificate of Construction Compliance is	provisions of Chapter II, Section 873.708.1 adject to the provisions study this date.
Reviewed by:	
	Date
Recommended by:	Date Date





Westchester County Department of Health Bureau of Environmental Quality

WCDH File : PR 2007-14 Municipality: POUND RIDGE
System "B" Existing - Serving Bldg. 2 See PR73-2 & PR2006-02
☑ Separate Sewage System ☑ Private Water Supply ☑ Residential ☐ Commercial
CERTIFICATE OF CONSTRUCTION COMPLIANCE:
Watershed Basin : STAMFORD
Property Address: 29 WESTCHESTER AVENUE Section: 9 Block: 9456
Owner Last Name: AHOME First Name: Lot: 5A R.S. Lot: -
Owner's Address: 185 KISCO AVENUE, MT. KISCO, NY, 10549
Separate Sewage System to Consist of:
max From Caregos
Septic Tank Size: 1500 Gallons Trench Length: *** Lin. Ft. X Trench Width: *** Inches
***Exist. Pits & trenches/Ref/WCHD Permit PR73-2 Other Requirements: New 1250 gal holding tank, recirculation & pump chamber w/ 1/3 hp pump-pump dose 215 gal/cycl
Building Type: Senior Housing # of Bedrooms ** Date Permit Issued: 8-23-2007 **6 Suites w/ Max.8 occupants
Erosion Control (EC) Completed Yes
Other Requirements: Advantax AX-20 filters have not been required or approved by the WCHD.
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392 Water Supply:
TO THE STATE OF THE PROPERTY O
Water Supply: ☐ Private Water Supply ☐ Public Water Source: Existing Well Well Driller (WD) Company Name: NYDEC Reg. #
Water Supply: ☐ Private Water Supply ☐ Public Water Source: Existing Well Well Driller (WD) Company Name: NYDEC Reg. #
Water Supply: ☐ Private Water Supply ☐ Public Water Source: Existing Well Well Driller (WD) Company Name: NYDEC Reg. #
Water Supply: Private Water Supply Public Water Source: Existing Well NYDEC Reg. # I certify that the system(s) as listed serving the above premises were constructed as shown on the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, and the pelmit issued by the Westchester County Department of Health.
Water Supply: Private Water Supply Public Water Source: Existing Well NYDEC Reg. # I certify that the system(s) as listed serving the above premises were constructed as shown on the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, no the permit issued by the Westchester County Department of Health. Date: 11/1/08 Certified by: 076296
Water Supply: Private Water Supply Public Water Source: Existing Well
Water Supply: Private Water Supply

UMP YCLE DEPTH:	21.5"
UMP VOLUME: 9.3	77 gal/ln x 21.5 in = 0 gal/cycle
YSTEM TESTED ON 10/	30/08 WITH WCHD.
3' - BUILDING 2 - WCH STING SSDS UNDER W	ID Permit # PR2007-14 CHD 8-13-79 APPROVAL
GAL. PRECAST	CONCRETE SEPTIC TANK
EA. CIRCULATI	ON & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL. ON BOX
GAL. PRECAST	CONCRETE HOLDING TANK
VAL IMPROVEMENTS:	
EX AX-20 SECONDAR	FILTER SYSTEM (Not Required or Approved by WCHD)
YSTEM "B" UMP CHAMBER - VOL	UME 215 GALLONS/CYCLE
UMP CHAMBER SIZE:	43" x 70"
'APACITY:	20.9 cf/ft 1.74 cf/in 13.02 gal/in
UMP CYCLE DEPTH:	16.5"
	.02 gal/in x 16.5 in = 5 gal/cycle

YSTEM TESTED ON 10/30/08 WITH WCHD.



WCHB PERMIT # PR2007-13 " WCHD PERMIT # PR2007-14

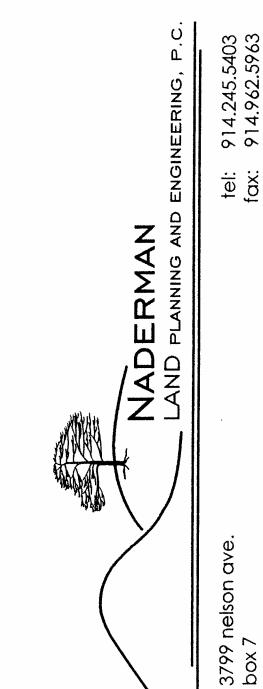
•		REV. EXIST. WELL	11/17/08
•	No.	Revision/Issue	Date

914.962.5963

fax:

e: bgn@naderman.com

jefferson valley, ny 10535



A - HOME SCOTTS RIDGE DEVELOPMENT

29 WESTCHESTER AVENUE

TOWN OF POUND RIDGE

WESTCHESTER CO., NY

RECORD PLAN SUBSURFACE SEWAGE DISPOSAL SYSTEM

Project .	5349	Sheet
Date	11-07-08	RP-1B
Scale	1"= 30¹	

inspection and

sSTS nor to remain

cosed will nor within 200'
line of drainage from

les and Regulations for ige Treatment Systems

e OWTS and certifies its

e new SDS.

RIPRAP OUTFALL
TO EXISTING
CULVERT

HEADWALL

15" DRAIN

'ATER

NOTES A - HOME I.) APPLICANT/ OWNER: _ 185 KISCO AVE., SUITE 4, MOUNT KISCO, NY 10549 PROPERTY LOCATION: 29 WESTCHESTER AVE., POUND RIDGE, NY 10576 TAX MAP DESIGNATION: SHEET: SEC. 9 BLK. 9456 LOT 5A 4.) THE DESIGN OF THE PROPOSED SUBSURFACE SEWAGE DISPOSAL AREA 'A' IS BASED ON A SOIL PERCOLATION RATE OF _______ MIN./INCH. AND A PROP. 6 SENIOR RESIDENT SUITES/ BUILDING. MAX. 8 OCCUPANTS X 75 GPD/ OCCUPANT = 600 GPD DESIGN FLOW/ BLDG. 5.) THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL CONSIST OF THE FOLLOWING IMPROVEMENTS: SYSTEM 'A' - BUILDING 1 - WCHD Permit # PR2007-13 L.F. 48" WIDE FLOW DIFFUSOR LEACHING LAMBER GAL, PRECAST CONCRETE SEPTIC TANK 1500 EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 210 GAL. EA, DISTRIBUTION BOX GAL, PRECAST CONCRETE HOLDING TANK 1000 ADDITIONAL IMPROVEMENTS: ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD) 18" - 24" ROB FILL WITHIN RRIMARY KEA 'A' SYSTEM "A" PUMP CHAMBER - VOLUME 210 GALLONS/CYCLE 37" 261" PUMP CHAMBER SIZE CAPACITY: 15.67 cf/ 1.3 cf/in 9.77 gal/in PUMP LYCLE DEPTH: 21.5"

SYSTEM 'B' - BUILDING 2 - WCHD Permit # PR2007-14 EXISTING SSDS UNDER WCHD 8-13-79 APPROVAL

SYSTEM TESTED ON 10/30/08 WITH WCHD.

1 GAL. PRECAST CONCRETE SEPTIC TANK

1 EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL.

-- EA, DISTRIBUTION BOX

1000 GAL. PRECAST CONCRETE HOLDING TANK

ADDITIONAL IMPROVEMENTS:

 $9.77 \text{ gal/in} \times 21.5 \text{ in} =$

210 gal/cycle

ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD)

PUMP CHAMBER - VOLUME 215 GALLONS/CYCLE

PUMP VOLUME:

PUMP CHAMBER SIZE: 43" x 70"

CAPACITY: 20.9 cf/ft 1.74 cf/in

13.02 gal/in

PUMP CYCLE DEPTH:

16.5"

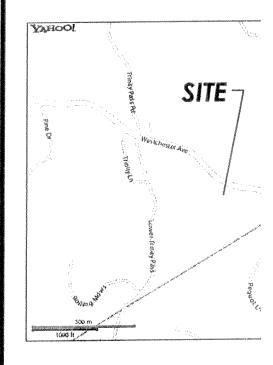
PUMP VOLUME:

13.02 gal/in x 16.5 in =

215 gal/cycle

SYSTEM TESTED ON 10/30/08 WITH WCHD.

UNAUTHORIZED ALTERATIONS / THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUC

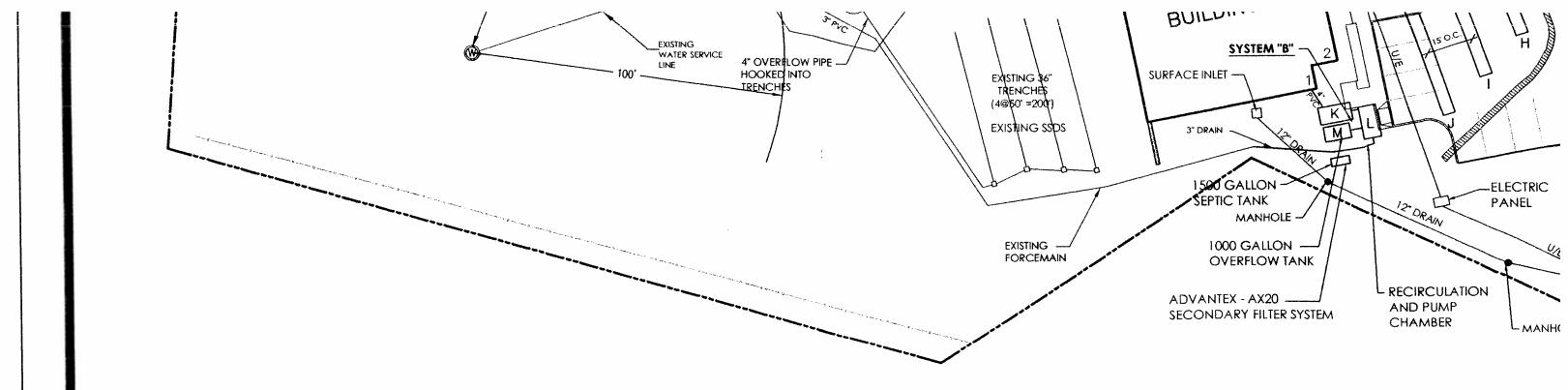


1 REV. EXIST. WELL
No. Revision/Iss

U O

NADERMAN
LAND PLANNING AND ENGINEERING,

A - HOI SCOTTS R



OFFSET DIMENSIONS

	1	2	3	4	5
Α		~		42'	17.5'
В			·	44.5'	26'
С			******	35.5'	23.5'
D			24'	27.5	
Е		53.5'	24.5'		
F		68'	40.5'		
G		81.5'	56'		
Н		61.5'	74'	_	
1		49'	68'		_
J		40'	67.5'		
К	10'	17'	-		
L	20'	22'	_		_
М	15.5'	23'			

PLAN SCALE: I" = 30

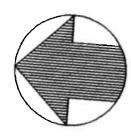
Reviewed by: Date			The subject property
Recommended by Date			There are no reservoi
Accepted by Gell Rix Date			
	ر و موسوع کی در موسود کی در در در در د	و نوسته و و نوسته	
ه من المستقد في مستقد في مستقد في مستقد بن في المستقد في مستقد في المستقد في من المستقد في المستقد في من المستقد بد م	PROPOSED EXPANSION AREA 'A' 216 LF FLOW DIFFUSORS		
	(EXIST. SLOPE 8-15%)	ADVANTEX - AX20 SECONDARY FILTER SYSTEM	
		RECIRCULATION AND PUMP — 1000 GAL. CHAMBER TANK 1500 GAL. — DRA	IN INLET
	SY.	SEPTIC TANK	
		THE PARTY TO SERVICE AND ADDRESS OF THE PARTY TO SERVICE AND ADDRE	
	A EXISTING 8'Ø X 3' DEEP SEEPAGE PIT (fvp.) EXISTING	BUILDING 1 FOR MANHOLE	PRIMARY AREA '/ FLOW DIFFUSORS 3 ROWS @ 72 LF SPACED 15' OC
	SEEPAGE PIT (typ.) EXISTING EXPANSION AREA 'B' EXISTING SSDS	A PVC F G	216 LF TOTAL
1 EXISTING	SURFACE W/S		HEAD WALL
DISTRIBUTION — BOX	WATER SERVICE CONNECTION	William CCAY BARRIE	
EXISTING WELL TO REMAIN	SURFACE INLET	BUILDING 2	
EXISTING WATER SERVICE LINE HOOK	RELOW PIPE -	SURFACE INLET 1	
IRENC	ED INTO HES TRENCHES (4@50" = 200") EXISTING SSDS	3' DRAIN	HEADWALL
		1500 GALLON ELECTRIC	
		1500 GALLON SEPTIC TANK MANHOLE PANEL PANEL	
	EXISTING — FORCEMAIN	1000 GALLON — OVERFLOW TANK	HEADWALL -
		ADVANTEX - AX20 RECIRCULATION AND PUMP	12" DRAIN

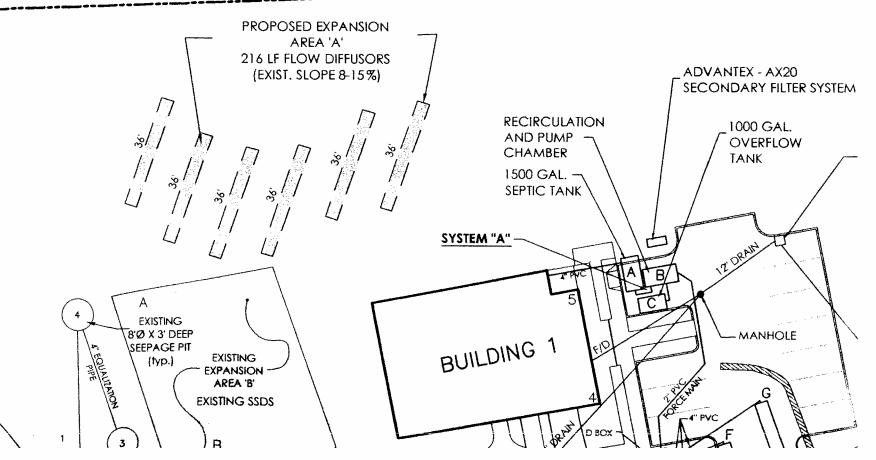
Westchester gov.com

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality

PERMIT NUMBER: PRL007-14

I TOURS.	Municipality: Pormo Rily
Description: SSTS Improvement (New Systectrack + Pump Cham)	+ To sem Britisth
(New Sectic tank + pump Cham)	on) Max flow 600 goo
# of Sheets: one (1)	
Are hereby accepted 5 873, Article VIII, Scottle of the Westchester County of the Certificate of Construction Com	provisions of Chapter VII, Section 873,708.1
	inhance issued this date.
Reviewed by:	Date





WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality 110 So. Bedford Road Mt. Kisco, NY 10549

DESIGN DATA SHEET - SEPARATE SEWERAGE	SYSTEM	FILE NO.
Owner HCG DRYWALL, INC.	Address/O DUN	WOCOLE ST. SCRUSOME
Located at (Street) WESTCHESTON R	WE Sec	9 Block9456 Lot 5A
(Indicate nearest	cross St.)	

Municipality Pouro RIGE Watershed STAMFORD

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

Run Date: 11/4/00

PRIMARY AREA Presoak Date: 11/3/00

HOLE #		*	CLOCE	C TIME		p	ERCOLATION	MARYA
Hole Number	Run		p o p	Elapse Time Min.	Depth From Gro Start Inches	to Water d Surface Stop Inches	Water Level Drop In Inches	Soil Rate Min/In Drop
/	1	3:23	3:53	30	27	1 29	2	15
	2	3:55	4:25	30	1 27	28/4		17./
de d	3	4:26	4:56	30	27	2834	13/4	17-1
displayed and a second a second and a second a second and	4		and months on pa			1		
	5							
2	1	3:25	3:56	30	76	28/4	24	/3.3
-	2	3:57	4:27	30	26	28	2	15-0
to description to the second	3	4:28	4:58	30	26	28	2	15.0
as manager de	4							
	5		The Statement in					
3	1	3: 30	3:57	17	275	303	3	5. 7
The specialists and	2	3:50	4:13	23	27/4		3.44	7./
***	3	4:14	4:36	22 !	27/2		3	7.3
	4		The state of the s	P. I	To the state of th			
	5	and the same of th						
tes:		1					may 6-Nm	

DEEP

1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

²⁾ Depth measurements to be made from top of hole. DO NOT REPORT INCREMENTS OF LESS THAN ONE INCH.

	,	_	\sim	S PRIMARY ARE,
DEPTH	HOLE NO/	HOLE NO.	HOLE NO. 3	HOLE NO.
G.L.	OLD PKG LOT		0LD P/46	our plus
6 "	SUBBINSE GANVEL	SUBBASE GRAVEL	SUBBASE	5 WB B M3 13
0		GAMELLY	GRAVEL	CHNEL
12"	LOAM FILL	LOAM FILL	- 3 MMS	SANDY LOAM
18"	d)		1,	
	very		Limit	
24"	pocky	With the state of	BOULDERS	V
30"	Commence of the control of the contr			FINE Smus
36"				
				LMGE
42"				5 702/85
48"				
54"				Control of the Contro
		MOTTLING		
60"		<u> </u>		Marin Control of the
66"	pock		<u> </u>	
		/	FINE DENSE	
プラ リ	MOCK		1110	
72"	20ck	Enouno WATER	SAND	
72"	pock_	GROUNDWATER SEEPME		
78"		SEEPME		
78" 84" WAS GROUINDICATE INDICATE DEEPTEST	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WA S MADE BY BARRY G W/ ED OELAWE e Used/6-70 Min	SEEPME OUND WATER IS ENC ATER LEVEL RISES - WAVERMAN P. Y - WCHO DESIGN 1/1" Drop: S.	OUNTERED 78" OUNTERED 78" AFTER BEING ENCOUN E. DATE OF DEEP TES D. Usable Area Pro	ovided 9, 6005.F.
78" 84" VAS GROUINDICATE INDICATE DEEPTEST	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WA S MADE BY BARRY G W/ ED OELAWE e Used/6-70 Min	SEEPME OUND WATER IS ENC ATER LEVEL RISES - WAVERMAN P. Y - WCHO DESIGN 1/1" Drop: S.	OUNTERED 78" OUNTERED 78" AFTER BEING ENCOUN E. DATE OF DEEP TES D. Usable Area Pro	ovided 9, 6005.F.
78" 84" WAS GROUINDICATE INDICATE DEEPTEST	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY OF W/ EO OF CAMB e Used/6-70 Min edrooms Seption 7 BORN UNITS	SEEPMEE SEEPMEE OUND WATER IS ENCATER LEVEL RISES - WOEND DESIGN A/1" Drop: S. Tank Capacity - 48 X18" FO	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Soil Rate (3- Absorption of Beauty Company) (ame Beauty Company)	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY G W/ FO OFUND e Used/6-70 Min edrooms 6 Septic 2 BORY UNITS on Area Prov. by 32 paintary energy	SEEPME OUND WATER IS ENCATER LEVEL RISES - WOOLO DESIGN 1/1" Drop: S. Tank Capacity - 48 × 18" FO OL.F.× 100 (M) NOOL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Soil Rate (3- Absorption of Beauty Company) (ame Beauty Company)	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY G W/ FO OFUND e Used/6-70 Min edrooms 6 Septic 2 BORY UNITS on Area Prov. by 32 paintary energy	SEEPME OUND WATER IS ENCATER LEVEL RISES - WOOLO DESIGN 1/1" Drop: S. Tank Capacity - 48 × 18" FO OL.F.× 100 (M) NOOL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Soil Rate 3- bsorptic	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY OF W/ EO OF CAMB e Used/6-70 Min edrooms Seption 7 BORN UNITS	SEEPMEE OUND WATER IS ENCATER LEVEL RISES OUND WATER IS ENCATED BESIGN A/1" Drop: S. Tank Capacity OL.F.X700 C.F.X700 SEAL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Goil Rate (3- bsorptic MINIMAL AMERICAN ddress 3	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BATCH G W/ EQ OFUND e Used/6-70 Min edrooms 6 Septic 2 BORN UNITS on Area Prov. by 32 PALMANY AND A PALMANY AND A 1799 NELSON AVE	SEEPMEE OUND WATER IS ENCATER LEVEL RISES NOOHO DESIGN 1/1" Drop: S. Tank Capacity 1/8" X18" FO OL.F.X7 SEAL FOR THE SEAL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST Soil Rate (3- bsorptic MITHIM ddress 3	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY OF W/ EO OFUND e Used/6-20 Min edrooms 6 Seption 2 BORN UNITS ON Area Prov. by 32 PRIMARY ENERS 1799 NELSON ENERS FEFFERSON VINCE Ser County Health D	SEEPMEE OUND WATER IS ENCATER LEVEL RISES OUND WATER IS ENCATED BESIGN OUND DESIGN OUT TOOP: S. TANK Capacity OUT TOOP: S. OUT TOOP: S. SEAL OUT TOO AND NOW OUT TOOP SEAL OUT TOOS SEAL	OUNTERED 78" OUNTERED 78" AFTER BEING ENCOUNTED. DATE OF DEEP TES D. Usable Area Pro SOO Gals. Masons OUNTERED. Other OUNTERED. Other PUND FORK PUND ATURE	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST Soil Rate (3- bsorptic MITHIM ddress 3	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY & W/ EO OEUME e Used/6-70 Min edrooms & Septic 2 BORN UNITS ON Area Prov. by 32 PRIMARY BUELA 1799 MELSON MIS eer County Health D Approved S	SEEPMEE OUND WATER IS ENCATER LEVEL RISES OUND WATER IS ENCATED BESIGN OUND DESIGN OUT TOOP: S. TANK Capacity OUT TOOP: S. OUT TOOP: S. SEAL OUT TOO AND NOW OUT TOOP SEAL OUT TOOS SEAL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUNTED DATE OF DEEP TES D. Usable Area Production of Diffusor's distribution of the Diffusor's distribution of th	ovided 9, 600 5.F. Ty Metal

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality 110 So. Bedford Road Mt. Kisco, NY 10549

DESIGN DATA SHEET - SEPARATE SEWERAGE	SYSTEM	FILE NO.
Owner HCG DRYWALL, INC.	Address/O DUN	WOODIE ST. SCRUSDME
Located at (Street) WESTCHESTER 1	Sec Sec	9 Block9456 Lot 5A
(Indicate nearest	cross St.)	

3 4 5

Notes:

Perc test done by: Brany 6 - MADERIAN, P.S. 1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted

for review.

2) Depth measurements to be made from top of hole. DO NOT REPORT INCREMENTS OF LESS THAN ONE INCH.

	Munici	palit	Y_ <u>Po</u>	220	1406	5	Water	shed_57814/	5020
	so	SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION Presoak Date: 12/20/02 Run Date: 12/21/02 EXPANSION ME							
	Presoa	k Dat	e: <u>/</u> 2/	20/0	12	Run I	ate: <u>/</u> 2	121/02	Marine and a second
	HOLE #			CLOCK	TIME		7	ERCOLATION	ANSION ARE
	Hole Number		 Start	Officials designate phonogen	Elapse Time Min.		O Water Surface Stop	Water Level Drop	Rate Min/In
36 ". DEEP	4	1	10:36	11:24	28	76	29/4	3/2	8.6
OFEP	40-00-00-00-00-00-00-00-00-00-00-00-00-0	2	11: 25	11:52	27	76	29	3	8.6 9.0 9.6
	***************************************	3	11:53	12:02	29	76	29	3	9.6
	and the same of th	4		-					
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	the executions the	2					To the second		
		3	Berthalt and a state of the sta	Annual An		The state of the s			
	i I	4	territorio del Composito de Comp						
		5		100		The second secon			THE CONTRACT OF THE PROPERTY O
	of state of the st	1						· E	

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

*	<u> </u>	OF SOILS ENCOUNT	EPED IN TEST HOLE	S
DEPTH		HOLE NO.		HOLE NO. 8
G.L.	21611 WOODS	416HT WOODS	4611 WOODS	216HT WOODS
6"	7018016	TOPSOIL	TOPSO16	
12"	5 ANDY LORM 50NB 51473	SANDY LORM SOMB SILTS		TOPSOIL SANDY LOAM
18"			1	30HB 31273
24"	SANDS/GRAVEL	3 Anos/GRAVEL		3 ANOS/GRANELS
30"		-J	MEDIUM SANDS GRAVELLY	JANUS) GRAVELS
36"		VERY ROCKY		
42"	VERY ROCKY			
48"	GRAVELLY			1
54"				
60"			VERY	
66"				
72"				
78"				
84"				V
INDICATE INDICATE	DWATER ENCOUNTERED LEVEL AT WHICH GROW LEVEL FOR WHICH WA' MADE BY BARRY & MI ED OFLINERY	UND WATER IS ENCOUPER LEVEL RISES AS - WAR ENGLAND OF	nman marker	TERED TS 11/19/02
Soil Rate	Used/6-70 Min,		Usable Dres Dre	
No. of Be	drooms 6 Septic	Tank Capacity 1,50	OGals. Masonry	y≚ Metal
Name /6/6	PRIMARY ENER,	2mm/P3 Signat	PUMP-BOMP O	7:5E 314 EMS.
	799 NELSON MYS-1		The LX	No. of the second
<u> </u>	EFFERSON VINLE	<u>1. 14.7. 10</u> 53.5		· · · · · · · · · · · · · · · · · · ·
Westcheste	or County Health De	partment	A STATE OF THE PARTY OF THE PAR	
Soil Rate	Approvedsq			and the state of t
S.D. 27.6		Date		

9456-55 35 WESTCHESTER AVE

Separate Sewerage Syste	emPrivate Water	Supply /	UNO RIOGE	
TIFICATE OF CONSTRUCTIO	N COMPLIANCE	WCDH File No.	KK.73-12	
ed at WESTCHESTER AV		Section	Block 9956	7- 2- 2- 6- 2- 2- 1- 2- 2- 2- 1- 2- 2- 2- 2-
EMIL DIENSEK		101 Plo 5 /A	loh	ericality gradus
ate Sewerage System built by SAF SE	PACTYSTEMS INC. Adde	New ROCHELLE	NY.	
Consisting of 7	Gal Manney - s	4-5'0 x 5' De	EP SEEPAGE PITS	
Other requirements / H/	Pump in Pumpert.	ALARM IN BUILDING	Width tren	ich
Supply:Public Supply From		1		
	BORISCHURYK	Stansura		
RESIDENTIAL	Number of Bedrooms	Address Stampono		
Control Completed	全的2000年,1915年,1915年1915年,1915年1915日	Walved		
Requirements				(
that the system(s) as listed serving the above the standards, rules and regulations, plans filed.	e premises we to contain as an intially as sh	own on the plans of the completed work (con	es of which are attached), and in accord	tanca .
[프로그램: N. C.	and the permit saved by the Whichester Co	unty Department of Health.		1
7-18-74	Derritted By	ney anda		
erson occupying premises served by the above usage. Approval of the separate sewerage system he null and void when a public water supply	system(s) shall promptly take such setting as	mey be necessary to secure the correction	of any unsanitary conditions resulting	from
ne null and void when a public water supply action, modification or change is necessary, sa	comes available. Such approvals are subject	to modification or change when, in the judg	ment of the Commissioner of Health.	such
	A CONTRACTOR OF THE PARTY OF TH			
Lug. 16, 1974				-3-
lug. 10,117	William Scumfield of M. D., Commission	oner By Vivcent /L. Leo	me Jan ing	

Westchester County Department of Health Division of Environmental Sanitation

WELL COMPLETION REPORT

is report is to be completed by well driller and submitted to Health Department, together with aboratory report of analysis of water sample indicating water is of satisfactory bacterial sality, before certificate of construction compliance is issued.

	Well construction RULES & REGULATION	to be in accord IS RELATING TO I	lance with Bulle	etin SD-62 R SUPPLIES*	Out
XATION: MUNICIPAL	LITY Pound Ridge r	VY SECT	TON	BLOCK 9456	LOT 5
IL OWNER: MA	Emil Oslensek	Westchester	L Ave Pour	d Ridge NY	
Name		Street Address		City and Town	erkommunikkaalinealaineksiakon-vankaalineksiakonapassiakona ajastiilinki comuuto
	oris Charak	20 Corbo Terr Street Address	Stronforo.	GNN	
N & me		Street Address		City and Town	
CASING DETAILS					
	YIKID TRS		WATER LEVEL sure from land	SCREEN	DETAILS
ingth. 33	Feet or Pumped	6 Hours Stat	<i>y</i>	Feet Make:	
ameter: 6	inches Yield:	When	Bailed		Slot
- V- 0 - 0	nches-liem:	G.P.M. or P	rumped 290	Feet! Length	Ft. Size
na: May Mity A				Diameter	In.
TAL DEPTH OF WELL	, 290 PEET				
		WELL LOG	;		
Depth From	Give description	of formations r	anat sot ad		
round Surface		wite" peniesfole."	OTENTIO ATA	Indiana adam A	
	and sand (fine, m cemented, soft, h 27 ft, to 13/ ft	#####################################	COLOR OF MAYAY	5 6 1 mm m m m m m m m m m m m m m m m m	
	27 ft, to 134 ft.	gray granite,	V 2.V. VV 2.	it. line, packe	a, yellow sand
Pt.to / Pt.	· Clay + boul	les			
5 Pt. to 290 Pt.	7/				akkin mengalakan perunaktik di Serun penjanjah pendah pendah pengaban di kelah sebagi penangan
Pt.to Pt.	• //	this consideration and the production of the constitution of the c	damonteliske gallekse gjarnumske most most om antelskurft kreet judden om anvånsside utdikksigte deparemment for		
	•				ett priktiment die voorte, 2000 toer den klasse ferkoorten, voor stillelijk in 1000 toerstills voor 100 toerst
	•				
Ft. to Ft.	8				
Ft.to Pt.					
Pt.to Pt.	•			aarii kaan noon daa taga ayaa eestii ta aa daanaa aa aa aa aa ahaa dhaa ahaa a	ki kiloki kiloki kiloki ki kiloki ki kiloki
Pt.to Pt.				Miller od fan status provinsk filiplingsin her nameliuskrapharus prificiani na statusk eiliken på er sattaut uur societi	
		Professional Styres and the engineering for every 100 finance restricting part of the Styres and Standard Stand			
te Well Was Comple	eted 3 19	74 Date	of Report	^	
	0		< 1K	Chin A	kookoansuvallaakkooliistekkolakuugikassuyettigajattiikijätilitootaasiirtautoruuse, eligass
		weTT	Driller DO	- CRUSHR	

WELL PIT AND PUMP EQUIPMENT DETAILS

Finished Well:	Check	Pit with 4-inc	h Gravity Drain	to Grade	¥°
		Pit with 4-inc	h Gravity Drain	to Basement	
		Pitless Adapte	r - Casing Min.	12 inches above	e grade
		Other: Describ	e		
Pump: Make	Berkele	Type sub	neisible o	apacity 2H.P.	G.P.M. 10
Storage Tank:	Туре	gall.	Capacity		al. (42 Gal. Min.)
		Indicate location sewage disposal sy Also indicate direction with disand sewage disposa	of house, well stem with dista ction of slopes tances to all w l systems withi	and nces. , and m ells — O	

I certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health.

COUNTY	OF WESTCHES!	TER DEPARTI	MENT OF	HEALTH - D	ivision of 1	Envi r onmenta	al Sanitation
	DATA SHEET .				FILE		
Ower E	MIL DOL	ENSEK		Address	RINITY PA	ASS POUR	DO RIDGE N
Located	d At (Street)	WESTO	HEST	ER AV	∈ Se	- 9 Block	1456Lot P/c
Managara and a		(Indicate	nearest	cross str	eet)		
	pality Po						
St	OIL PERCOLATI	ION TEST DA	ATA REQU	TRED TO BE	SUBMITTED !	VITH APPLICA	LTION
Hole							
Number	CLOCK 1	ATAE	Elapse	PERCOL Depth to	ATION Water	Wat and Tares	PERCOLATION
	No. Start	Stop	Time Min.	From Gro Start	und Surface Stop Inches	in Inches Drop in	Soil Rate
P.	1 9:50	10:10	20		4-3/2		5.7
	2 10:11	10!32	21	4'-0"	4'-33/6	' 3 <i>³/8</i>	6.2
	3						
	4						
	5						
PZ	1/0/00	10:12	12	4'-0"	4-314	314	3.7
Moderate Contraction of the Cont	210113	10:26	13	4'-0"	4'-31/8	3/8	4.1
	3						
SEMESTIC THE PROPERTY OF THE P	4						
	5						
P ₃	110103	10:22	19	4'-0"	4'-3"	3	63
	210123	10:43	20	4'-0"	4'3"	3	6.6
	3						
	4						
On the second se	5						
Notes:							

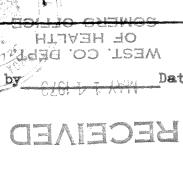
Notes:

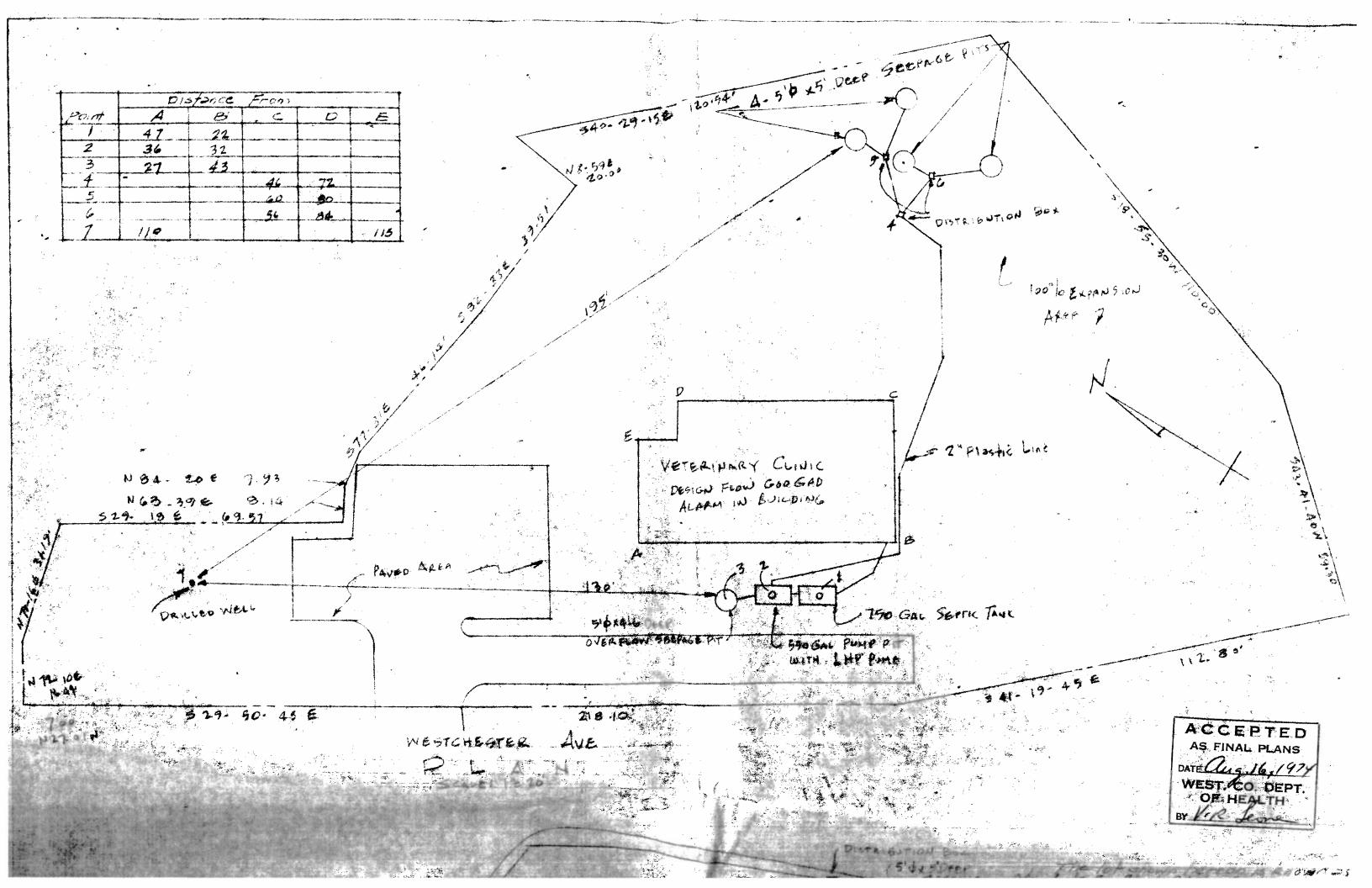
1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

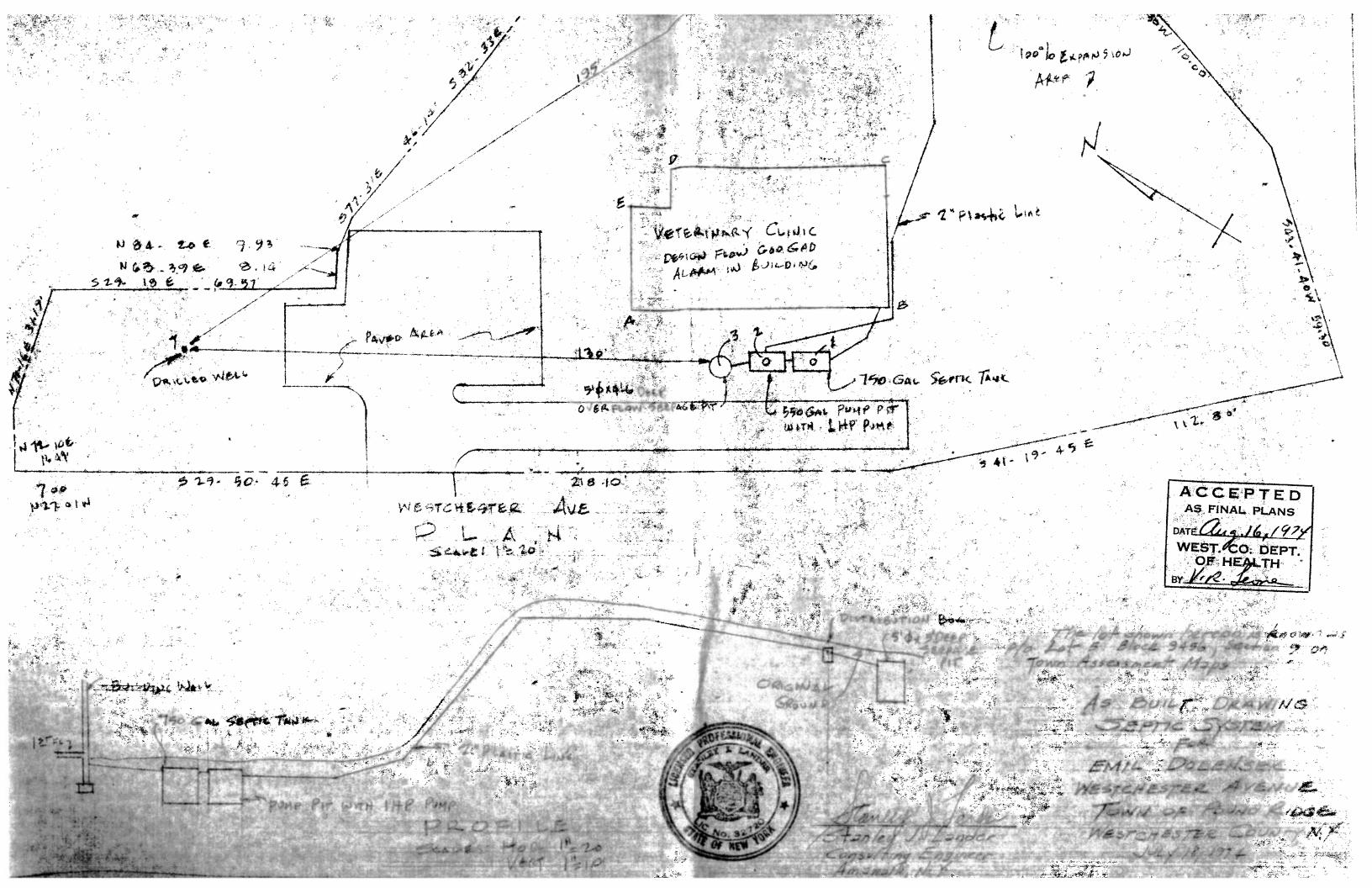
2) Depth measurements to be made from top of hole.

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

DE PIH	HOLE NO. P.	HOLE NO. P. HOLE	NO. P3 HOLE NO.	DEEP HOLE
G.L.	TOPSOIL	TOPSOIL	TOPSOIL	TOPSOIL
6 n	**		<i>§</i> 9	f j
12" E	DAND CLAY MIX	SAND CLAY MIX	SANO CLAY MIX	SAND CLAY MIX
18"	**	/*		//
24"	89	11	* /	(1)
30"	8 6	**	11	1 :
36" ^{<}	DAND SOME STONE	SAND SOME STON	E SAND SOME STONE	SAND SOME STONE
42"	<i>ŧ</i> [<i>n</i>	11
48 n	11	11	11	11
54"	£ \$	11	<i>i i</i>	Łį.
60n		Actually and Company of the Company	Construction of the State of th	11
66 m				6.1
72"				ží.
78 n				H
814 **				<i>F1</i>
INDI		ICH GROUND WATER ICH WATER LEVEL F	RISES AFTER BEING	No WATER ENCOUNTERED 5-3-73
	Data Nasa 10	16 - All Dans	DESIGN	a Provided 5000 5
	part manufacture of	(1 Y)		when death of the control of the con
				ls. Masonry V Metal
Abso	orption Area Prov	ided By L.I DEEP SEEPAGE	F.x24"36"	width trench. Other
Name	7	J. LANDER		Honey Fender.
Add:		X 267	SPAIN C	
		N. Y. 10501 5-2645		
We		Health Department	17	HTJABH RO
	•	Sq. Ft./Gal.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEST. CO. BES
		1-66) (February	18. 1969)	CEGI DI ANTI
~	· - 1 - / 100 10 / 100	+ and (noneman)		







9456-6 27 WESTCHESTER AVE



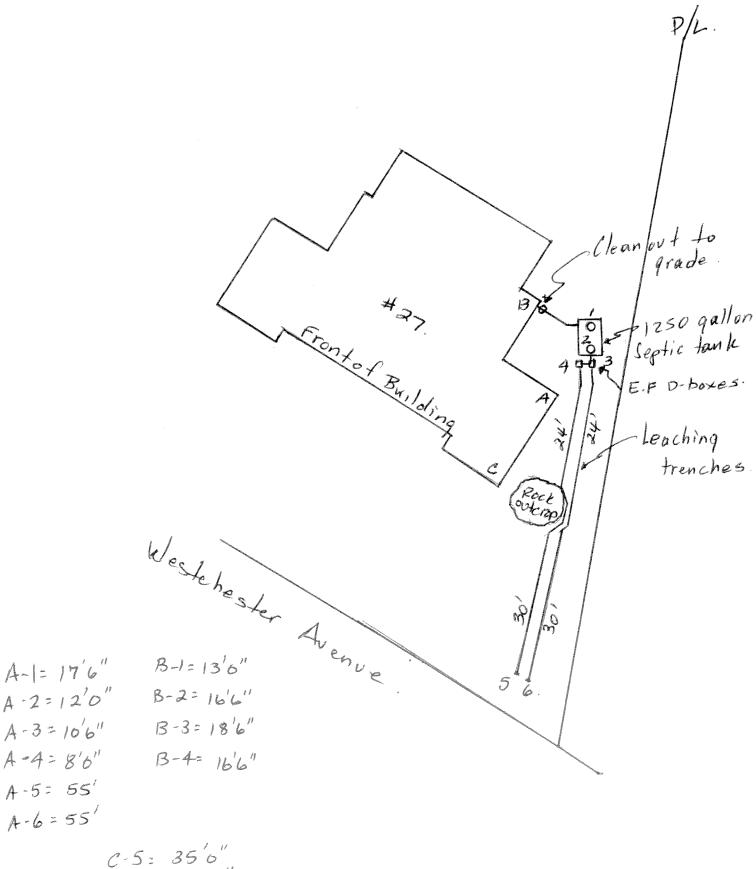
ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

Municipality:_			
Property Mailin	g Address (No. & Street): 27 Westen	after Ap	
Town/ Village:	Pound Ridge Devidere Spyder, LLC	State: NY Zip:	AND CONTRACTOR OF THE PROPERTY
Owner: <u>Co</u>	levidere Spyder, LL	£1P.	
Owner Mailing	Address (No. & Street) (if different): C 0	Steven 11/05/ 71/1 2011	7
Town/ Village:	New York		11/1/31/
Property Use:	[] Single Family [] Multi-Family [] Industrial 🛭	State: \(\) \(\) \(\) Zip: \(\) \(\) Zip: \(\) \(\) Zip: \(\) \(\	17
	M Other - Describe: APT Attached	Add 4-Loadens	
ONECD		THE STATE OF THE S	
OWTS Reme		WCDH File #:	
wastes or offens	all mean installation, replacement, or expansion of e, or impending failure, resulting in, or that may re ive material on to the surface of the ground, into a all not include repairs, as defined above, to correct	suit in, the discharge of sewage or domestic	nents to correct wastes or trade body.
	OR		
OWTS Repair	Complete the following information	on.	
Repair shall meatreatment system	an the repair, maintenance, and replacement in line	d and in situ; of broken, damaged, or worn o	nsite wastewater
Number of Bedr	ooms 1 Number of Bathrooms: 2		
		The supply 1 ypc. 1 doing L	Well 🗷
Repaired R	Please note below only components that eplaced	t have been repaired or replaced.	
Control of the Contro	House Sewer or other Solid Pipe(s) Septic Tank#1 Size(gallons): 450	DRAW BUILDING ANI	LOCATION
	Septic Tank#2: Size (gallons): Junction/Distribution Box(es)	OF WORK PERFORME	D ON BACK
	Junction/Distribution Box(es)	OF THIS FORM	
	Sewage Pump(s) or other Dosing Equipm Absorption Trench Length 10 8' 6	ment	
	Absorption Trench Length 108' ft. Seepage Pit(s)	X Trench Width 4 ft	
	Galley(s)		
	Gravelless Trench(es)		
pooring.	75-A Alternative System		
E-manufic processing	Other Advanced Alternative System		
and the second	Other System Component(s) - Describe:		
g	Entire System Replaced		
Contractor's Nam	De (print): PAUL S KIADAS	Date Renair/Remodiation C	2/2/
Contractor's Sign	aturé: Paul Shied	Sate Repair Remediation Completed:	3/4/12.
	The second of th	License No.: 363 ·	
pon completion			
	Westchester County Departn 118 North Bedford Ro	nent of Health- BEQ	

118 North Bedford Road, Rm# 100 Mt. Kisco, NY 10549

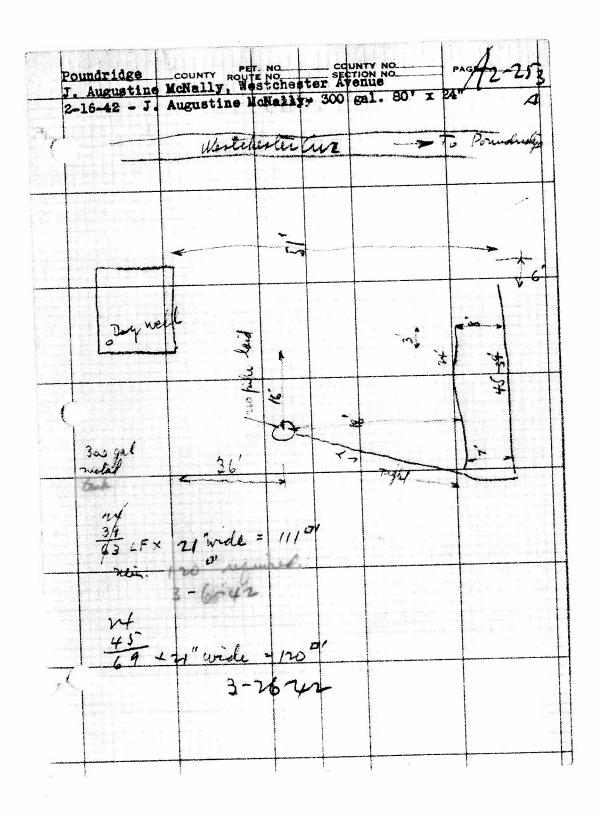
Attn: Patricia Tomello-Adams

Repair File #: REP 1012 - S/(WCDH Staff only)



C-5: 35'0"
C-6: 35'0"

P.S.D. Pound	iridge <u>Dat</u>	e: 2-16-42
Location:	Westchester Avenue	ender om men in franskriver i skriver om ender skriver om en skriver om en skriver i skriver i skriver i skriv Om en skriver i skri
Section:	<u>Block:</u>	Lots
Owner: J	, Augustine Mc Nally	
Builder:	S81110	
House:	l bedroom l bath≇oom	
Soil test ma	ide <u>:</u> no	
Tank capacit	¥: 300 gal.	Material: masonry
Absorption;	80' x 24"	
Approval is	sued: 2-3-2-1/3	Sketch-Book 2-25



COUNTY BOARD OF HEALTH

EDWIN G. RAMSDELL, M.D., PRESIDENT
NELSON A. ROCKEFELLER, VICE-PRES.
CHARLES C. SWEET, M.D.
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MISS JANE H. TODD
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J. RUSSELL FOSHAY, M.D.

County of Westchester

DEPARTMENT OF HEALTH
County Office Building
White Plains, N. Y.

GEORGE H. RAMSEY, M.D. COMMISSIONER

W. A. HOLLA, M.D. FIRST DEPUTY

E. H. MARSH, M.D.
A. D. LANGMUIR, M.D.
DEPUTIES

March 27, 1942

Jewers Pombrége

Mr. J. Augustine McMally Box 244 New Canaan, Connecticut

o/s Stamford Water Company

FINAL APPROVAL OF SEWAGE DISPOSAL SYSTEM

Dear Sir:

a 300 gallon masonry septic tank and 69 linear feet	of 21 inches wide absorption
	andreshions (in sept case with the model in the parent reas sept committee) in the integral past with the process of the integral past with the process of the integral past of t
to serve the bungalow of J. Augustine McMally, Wes	tchester Avenue, Town of
Poundridge, New York (meximum eccupancy 4 persons)	
has been completed in general accordance with the re	equirements of this depart-
ment and the permit issued February 16. 1943	pin-vinnaphunggipantan impakapunatantin Makantain ingkatapantain ingkatapantain in m
Very truly y	ours,
R. M. McLaug	thlin
Director Division of	Sanitation

THE OWNER OR HIS AGENT MUST RECEIVE THIS NOTICE OF APPROVAL OR A COPY THEREOF.

42-253A

WESTCHESTER COUNTY DEPARTMENT OF HEALTH

GEORGE H. RAMSEY, M.D., Commissioner White Plains, N.Y.

PERMIT TO PROVIDE A SEWAGE DISPOSAL SYSTEM

Application having been duly made to the County Commissioner of Health as required by
Article II of the Sanitary Code of the Westchester County Health District, permission is hereby given to J. Augustine Edwally, Box 244, New Canasa, Connecticut
for the construction or provision of a sewage disposal system consisting of a 500 gallon mason septic tank and 80 linear feet of 24 inches wide absorption trench
SUBJECT TO SOIL TEST
to serve the bungalow of J. Augustine McWally, Westchester Avenue, Town of Poundridge New York (maximum occupancy 4 persons)
subject to the following conditions: NOTE: Well should be 100' distant minimum from septions: tank and tile field

- 1. That this department shall receive due notification and be afforded an opportunity to inspect the system before any portion is backfilled or covered.
- II. That this system shall not be used until the written final approval thereof shall have been obtained from the Department of Health.
- III. That such sewage disposal system shall be constructed in complete conformity with the application data and plans as approved or with approved amendments thereto. Any changes in this system must be approved.
- IV. That such system shall receive only the sewage or wastes from the structures or premises covered by this permit.
- V. That such system shall be so maintained and operated as not to expose sewage or sludge, or create a condition of nuisance.
- VI. That this permit shall not be construed to invalidate any rule or regulation enforceable by any local authority having jurisdiction.
- VII. That all duly enacted rules and regulations for the protection of water supplies shall be complied with.
- VIII. That a connection to the public sewer shall be made as soon as such is available.
- IX. That whenever it is determined by the Commissioner of Health that additional or more adequate sewage disposal facilities are necessary, such facilities shall be provided, plans for which shall first be submitted to and receive the approval of the Department of Health.
- X. That whenever the sludge and scum shall so accumulate in any settling tank as to occupy together at any point more than one-fourth of the distance between the bottom and the flow line, they shall be removed.
- XI. That whenever sludge or scum is removed from any settling tank or any part of the system, it shall be done in such a manner as to cause no nuisance and the material disposed of by burial in some remote place at least 250 feet from any house, road, well, spring, stream or other body of water, and covered with not less than 6 inches of earth in such a manner that it will not flow or be washed by rain or melted snow or other means over the surface of the ground or into any well, stream, spring or other body of water.
- XII. That this permit shall be revocable at any time or subject to modification or change when in the judgment of the Commissioner of Health such revocation, modification or change shall become necessary.

	Feb.	16	1942			
	IMO:I					Someonia spara e a cicla della cicla della essa mana mana mana ana mana e mana e e a mana e e cicla della cicla de
Date:	Copy	to:	Stamford	Water	Co.	COMMISSIONER

VISION OF SANITATION R. M. McLaughlin, Director

W. M. Scott

J. D. Barrett H. M. Gray

Sanitary Engineers

County of Westchester

DEPARTMENT OF HEALTH

GEORGE H. RAMSEY, M.D., COMMISSIONER
County Office Building

White Plains, N. Y.

File	mude	Llgo
Permit		<i>T</i>
Inspected	by	***************************************
	. 2	

APPLICATION FOR SEWAGE DISPOSAL PERMIT

To the Commissioner of Health:	Date
Application is hereby made for a permit to construct a s	sewage system to serve
MA STAN THE STAN STAN STAN STAN STAN STAN STAN STAN	color to the part of the
Number, type and use of buildings to	o be served
concerning which the following information is submitted:	
1. Owner	lested
2. Property location (Street)	Place (Village, Town, City)
3. Tax Map Location: Section——— Block——— Lot——	Subdivision
4. Construction: New, Replacement. Proposed Future Build	ding Titled Landshirthia
5. Lot area No. of rooms Be	edrooms Bathrooms
Extra Lavatories Special Fixtures	Maximum Future Occupancy
6. Source of water supply	E.
Watershed on which system is located	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Distance to nearest watercourse Owner's we	ells ————Adjacent wells Adjacent
7. Daily Sewage Flow: No. of persons x 75 gals. =	
8. Settling treatment, Septic tank: liquid capacity	9 9ac material Canant
inside dimensions: length width width Note: Liquid capacity of tank shall be not less than volume of waste per day, with	effective depth diam.
9. Soil: clay, loam, sand, boulders, rock; surface: flat, slopin good, fair, poor. (Check terms that apply)	g, steep; ground water and surface drainage:
Absorption test: minutes per inch dro Note: Except in clay soil, a rate of 1 gal. per sq. ft. of bottom area per day shall	pe = Absorption rate (from table) be used unless a higher rate is established by soil test.
10. Absorption area:	sq. ft. bottom area.
gals. waste (No. 7) Absorption rate from 11. Absorption treatment, Trenches: inches wide;	
gravel cu. yards, to depth of inc	
Leaching pits: number outside dimensions wall area below flow line material	
Absorption area: trenches leaching pits	
Signature:	(By owner, builder, or officer of sewage disposal firm, or contractor)
Mail Address:	ş., , ,

Sketch required on reverse side or on attached sheet showing plan with general relation of dwelling and property boundaries, wells and streams to system and arrangement of absorption facilities, together with all other pertinent data, including details of grease trap, manholes, diversion gates, siphon, curtain drains, special structures and unusual features. Failure to secure permit before construction or final written approval of the system before using is a violation of the County Sanitary Code and is a misdemeanor.

Pound Ridge Waste Water Task Force

Appendix D: Flow Estimate Details

Based upon data from June 10, 2016

Appendix D Scotts Corner Full Occupancy Wastewater Generation Estimate (PB-A)						1/2					
						Building			Usage Rate		
						Square	_	•	(gallons/day/	Wastewater Generation	Allowable
Block	Lot	Zone	Property Address	Use	Acreage	Footage	Number	Measure	unit)	(gallons per day)	Flow (DOF
9454	36	R-2A	89 Westchester Ave	community facility	0.530	1,296	1,296	sq. ft.	0.10	130	
9454	5	PB-A	87 Westchesterchester Ave	retail	1.131	1,444	1,444		0.10	347	
9454	6	PB-A		restaurant	0.415	4,122	50	sq. ft.	35.00	_	
	6		85 Westchester Ave			4,122		seats		1,750 2	
9454	7	PB-A	85 Westchester Ave	office	0.473	0.161	1,360	sq. ft.	0.10	737	
9454		PB-A	83 Westchester Ave	retail 	0.473	9,161	6,138	sq. ft.	0.24		
9454	7	PB-A	83, A, & B Westchester Ave	apartments			2	apts.	300.00	600	
9454	7	PB-A	83 C & D Westchester Ave	office			2,290	sq. ft.	0.10	57	
9454	8	PB-A	79 Westchester Ave	office	0.345	1,872	1,872	sq. ft.	0.10	187	
9454	9	PB-A	77 Westchester Ave	auto repair	0.342	4,864	2	bays	750.00	1,500	
9454	9	PB-A	77A Westchester Ave	apartments			1	apts.	300.00	300	
9454	35	PB-A	NA	Vacant	0.356	0		NA	NA	0	
9454	10	PB-A	73 Westchester Ave	office	0.670	5,600		sq. ft.	0.24	1,344	
9454	11	PB-A	71 Westchester Ave	resaurant	0.631	3,878	25	seats	35.00	875	
9454	11	PB-A	71 Westchester Ave	retail			3,878	sq. ft.	0.24	931	
9454	11	PB-A	71 Westchester Ave	office			3,878	sq. ft.	0.10	388	
9454	12	PB-A	69 Westchester Ave	resaurant	0.493	12,285	40	seats	35.00	1,400	
9454	12	PB-A	69 Westchester Ave	retail			12,285	sq. ft.	0.24	2,211	
9454	13	PB-A	67 Westchester Ave	apartments	0.147	3,368	2	apts.	300.00	600	
9454	13	PB-A	67 Westchester Ave	retail			1,684	sq. ft.	0.24	404	
9454	14	PB-A	4 Trinity Pass Rd.	office	0.181	1,012	1,012	sq. ft.	0.10	101	
9454	15	PB-A	65 Westchester Ave	retail	0.185	65	1,174	sq. ft.	0.24	282	
9454	15	PB-A	65A,B Westchester Ave	apartments	0.185		2	apts.	300.00	600	
9320	56	PB-A	Westchester Ave	parking w/2 shed		0	0	NA	NA	0	
9320	58	PB-A	80 Westchester Ave	community facility		7,076	7,076	sq. ft.	0.10	708	
9320	59	PB-A	78 Westchester Ave	retail	0.207	2,979	2,234	sq. ft.	0.24	536	
9320	59	PB-A	78 Westchester Ave	office		=,0.10	745	sq. ft.	0.10	74	
9320	60	PB-A	76 Westchester Ave	restaurant	0.207	8,910		seats	35.00	2,100	
9320	60	PB-A	76 Westchester Ave	office	0.207	0,510	1,782	sq. ft.	0.10	178	
9320	60	PB-A	76 Westchester Ave	apartments			4	apts.	300.00	1,200	
9320	61	PB-A	74 Westchester Ave	restaurant	0.207	7,970	50	seats	35.00	1,750	
9320	61	PB-A	74 Westchester Ave	retail	0.207	7,570	1,993	sq. ft.	0.24	478	
9320	61	PB-A	74 A, B, C, & D Westchester Ave				4	apts.	300.00	1,200	
9320	62	PB-A	72 Westchester Ave	retail	0.207	4,750		sq. ft.	0.24	570	
9320	62	PB-A	72 A & B Westchester Ave	apartments	0.207	4,730	2,373	apts.	300.00	600	
9320	63	PB-A	70 Westchester Ave	apartments	0.207	3,120	2	apts.	300.00	600	
				•	0.207	3,120				374	
9320	63	PB-A	70 Westchester Ave	retail	0.440		1,560	sq. ft.	0.24		
9320	64	PB-A	68 Westchester Ave	retail 	0.418	6,923	3,462	sq. ft.	0.24	831	
9320	64	PB-A	68 A, B, C, & D Westchester Ave		0.642		4	apts.	300.00	1,200	
9320	65	PB-A	66 Westchester Ave	auto repair	0.642	2,130	2	bays	750.00	1,500	
				PB-A Subtotal	14.185	92,825	NA	NA	NA	28,645	

No.	Appen	ppendix D Scotts Corner Full Occupancy Wastewater Generation Estimate (PB-B and PB-C) and Total							2/2			
Block Lot Zone												
9455 20 PB-B 32 Westchester Ave retail 0.655 3,800 4,441 sq.ft. 0.24 1,066 9455 21 PB-B 34 Westchester Ave apartment 0.652 3,929 1 apts 300.00 300 9455 21 PB-B 34 Westchester Ave apartment 0.652 3,929 1 apts 300.00 300 9455 21 PB-B 34 Westchester Ave retail 1 1,965 sq.ft. 0.24 471 9455 27 PB-B, R-1A 38 Westchester Ave retail 0.495 3,870 3,870 sq.ft. 0.10 176 9455 28 PB-B 40, 400 Westchester Ave retail 0.495 3,870 3,870 sq.ft. 0.24 9.29 9455 25 PB-B 54 Westchester Ave retail 1.632 5,355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave retail 1.692 1.607 sq.ft. 0.24 386 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts 300.00 300 9455 24 PB-B 56,60 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 56,60 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9456 19 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 10 PB-C 22, 24 Westchester Ave retail 1.715 83,881 NA NA NA 0 9456 19 PB-B 39 Westchester Ave apartment 0.711 54,138 54,139 sq.ft. 0.24 12,993 9455 10 PB-C 22, 24 Westchester Ave apartment 0.781 2,197 1 apts 300.00 300 9456 7 PB-C 20 Westchester Ave residential 1.002 1.708 1.708 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave residential 1.002 1.708 1.708 NA NA 0 9456 7 PB-C 27 Westchester Ave residential 1.693 3.062 3.062								-	-			
9455 20 PB B 32 Westchester Ave apartment 0.652 3,929 1 apts. 300.00 300 9455 21 PB B 34 Westchester Ave apartment 0.652 3,929 1 apts. 300.00 300 9455 21 PB B 34 Westchester Ave retail 0.717 1,760 1,760 sq. ft. 0.24 471 9455 27 PB B, R-1A 38 Westchester Ave office 0.717 1,760 1,760 sq. ft. 0.10 176 9455 28 PB B 34 Westchester Ave retail 0.495 3,870 sq. ft. 0.24 929 9455 25 PB B 54 Westchester Ave retail 1.632 5,355 25 seats 35.00 875 9455 25 PB B 54 Westchester Ave retail 1.692 1,697 sq. ft. 0.24 336 9455 25 PB B 54 Westchester Ave apartment 1.698 1,388 5 apts. 300.00 300 9455 24 PB B 54 Westchester Ave apartment 1.698 1,388 5 apts. 300.00 300 9455 24 PB B 55, 60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 24 PB B 59, 60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 44 PB B 39 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 1,293 9455 10 PB C 22,24 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993 9455 13 PB C 26 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993 9455 13 PB C 26 Westchester Ave retail 7.71 7,10 7												Flow (DOH)
9455 21 PB-B 34 Westchester Ave apartment 0.652 3,929 1 apts 300.00 300 340	9455	20	PB-B	32 Westchester Ave	retail	0.656	<u> </u>	4,441	sq. ft.			
9455 21 PB-B 34 Westchester Ave			_		apartment			_	apts.			
9455 27 PB.B, R-1A 38 Westchester Ave office 0.717 1.760	9455	21	PB-B	34 Westchester Ave	apartment	0.652	3,929		apts.	300.00	300	
9455 28 PB-B 40, 40A Westchester Ave retail 0.495 3,870 3,870 sq. ft. 0.24 929 9455 25 PB-B 54 Westchester Ave residurant 1.632 5,355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave retail 1.632 5,355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 1 apsts 300.00 300 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 24 PB-B 55,57 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9456 1.9 PB-B 55,57 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9457 10 PB-C 22, 24 Westchester Ave apartment 0.781 1,745 83,881 NA NA NA 21,166 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apsts 300.00 300 9455 13 PB-C 26 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 6 PB-C 27 Westchester Ave residential 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,052 sq. ft. 0.24 364 9456 5 PB-C 35 Westchester Ave retail 1.537 3,062 3,052 sq. ft. 0.24 364 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 300 9456 7 PB-C 35 Westchester Ave retail 1.537 3,062 3,052 sq. ft. 0.24 364 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,000 9456 7 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,000 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,000 9456 5 PB-C 35 Westchester Av				34 Westchester Ave	retail					0.24		
9455 25 PB-B 54 Westchester Ave restaurant 1.632 5.355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave retail 1.607 sq. ft. 0.24 386 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 300 9455 24 PB-B 56,60 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9456 1.9 PB-B 55,57 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9455 10 PB-C 22,24 Westchester Ave apartment 0,781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave apartment 0,781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave apartment 0,781 2,197 1 apts. 300.00 300 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 1.002 1,708 NA NA 0 9456 6 PB-C 22, 23 23 N, B westchester Ave residential 1.537 3,062 3,062 sq. ft. 0,10 165 9456 6 PB-C 27 Westchester Ave retail 1,537 3,063 3,062 sq. ft. 0,24 364 9456 6 PB-C 27 Westchester Ave retail 1,537 3,062 3,062 sq. ft. 0,24 364 9456 6 PB-C 27 Westchester Ave retail 1,537 3,062 3,062 sq. ft. 0,24 364 9456 5 PB-C 29 Westchester Ave retail 1,069 3,305 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1,074 3,435 3,425 sq. ft. 0,24 364 9456 5 PB-C 29 Westchester Ave retail 0,764 3,425 3,425 sq. ft. 0,24 364 9456 5 PB-C 30 Westchester Ave retail 0,764 3,425 3,425 sq. ft. 0,24 364 9456 5 PB-C 30 Westchester Ave retail 0,764 3,425 3,425 sq. ft. 0,24 364 9456 5	9455	27	PB-B, R-1A	38 Westchester Ave	office	0.717	1,760	1,760	sq. ft.	0.10	176	
9455 25 PB-B 54 Westchester Ave apartment 1.697 sq. ft. 0.24 386 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 300 9455 24 PB-B 56,60 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave residential 2.196 0 0 NA NA 0 0 9456 1.9 PB-B 39 Westchester Ave residential 7,71 54,138 54,139 sq. ft. 0.24 12,993 9455 10 PB-C 22, 24 Westchester Ave 6,724 17,45 83,881 NA NA NA 10 10,476 11,676 1	9455	28	PB-B	40, 40A Westchester Ave	retail	0.495	3,870	3,870	sq. ft.	0.24	929	
9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56, 60 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56, 60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave residential 2.196 0 0 NA NA 0 0 9456 1.9 PB-B 55, 57 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993 9456 10 PB-C 22, 24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 14 PB-C 30 Westchester Ave office 1.002 1,708 NA NA 0 0 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 NA NA 0 0 9456 8 PB-C 21 Westchester Ave residential 1.602 1,708 NA NA 0 0 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 5 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 5 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 5 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 5 PB-C 27 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 27 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 6 PB-C 37 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 6 PB-C 37 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 6 PB-C 37 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,60	9455	25	PB-B	54 Westchester Ave	restaurant	1.632	5,355	25	seats	35.00	875	
9455	9455	25	PB-B	54 Westchester Ave	retail			1,607	sq. ft.	0.24	386	
9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave residential 2.196 0 NA NA 0 9456 1.9 PB-B 55,57 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993 PB-B Subtotal 17.45 83,881 NA NA NA NA 21,166 9455 10 PB-C 22, 24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 1.002 1,708 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave residential 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave retail 1.006 1,063 3,062 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave retail 1.0633 31,569 NA NA NA 0,00 3,600 9456 6 PB-C 29 Westchester Ave retail 0.6633 31,569 NA NA NA 0,00 3,600 9456 6 PB-C 35 Westchester Ave retail 0.6633 31,569 NA NA NA 0,00 3,600 9456 5 PB-C 35 Westchester Ave retail 0.6633 31,569 NA NA NA 0,00 3,600 9456 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9456 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9457 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9458 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9459 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9459 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9450 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9450 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9450 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9450 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9450 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9450 5 PB-C 35 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 822 9450 5 PB-C	9455	25	PB-B	54 Westchester Ave	apartment			1	apts.	300.00	300	
9455	9455	24	PB-B	56, 60 Westchester Ave	apartment	1.698	10,388	5	apts.	300.00	1,500	
9455												
9456 1.9 PB-B 55,57 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993	9455	24	PB-B	56, 60 Westchester Ave	retail	1.698		7,791	sq. ft.	0.24	1,870	
PB-B Subtotal 17.45 83,881 NA	9455	4	PB-B	39 Westchester Ave	residential	2.196	0	0	NA	NA	0	
9455 10 PB-C 22,24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave office 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 5100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays	9456	1.9	PB-B	55, 57 Westchester Ave	retail	7.71	54,138	54,139	sq. ft.	0.24	12,993	
9455 10 PB-C 22,24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave office 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 5100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays					PB-B Subtotal	17.45	83,881	NA	NA	NA	21,166	
9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave office 1.002 1,708 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA 0 9456 7 PB-C 23,23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.537 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 29 Westchester Ave retail 1.0633 31,569 NA NA NA 6,764 PB-C Subtotal 10.633 31,569 NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per square foot 500 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays												
9455 13 PB-C 26 Westchester Ave office 1,648 sq.ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 30,02 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave retail 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 29 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 9456 5 PB-C 35 Westchester Ave retail 0.633	9455	10	PB-C	22, 24 Westchester Ave	office	2.005	4,781	4,781	sq. ft.	0.10	478	
9455 13 PB-C 26 Westchester Ave office 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave retail 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 29 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 9456 5 PB-C 35 Westchester Ave retail 0.633	9455	13	PB-C	26 Westchester Ave	apartment	0.781	2,197	1	apts.	300.00	300	
9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per square foot 100 gallons per day per square foot 100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per day for first bay and 500 gallons per day for remaining bays	9455	13	PB-C	26 Westchester Ave				1,648	sq. ft.	0.10	165	
9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day for first bay and 500 gallons per day for remaining bays	9455	14	PB-C	30 Westchester Ave	residential	1.002	1,708	1,708	NA	NA	0	
9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day for first bay and 500 gallons per day for remaining bays	9456	8	PB-C	21 Westchester Ave	residential	0.656	2,342	2,342	NA	NA	0	
9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays	9456	7	PB-C	23, 23 A, B Westchester Ave	retail	1.537			sg. ft.	0.24	735	
9456 6 PB-C 27 Westchester Ave retail 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA	9456	6	PB-C	27 Westchester Ave	apartment	0.693	3,036	1	apts.	300.00	300	
9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA	9456	6	PB-C	27 Westchester Ave	retail				•	0.24	364	
9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot office 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays		5	PB-C		residential	3.195	11,018		-	300.00		
PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot office 0.10 gallons per day per square foot rest. 35 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays	9456	55	PB-C	35 Westchester Ave	retail	0.764	3,425	3,425	sq. ft.	0.24	822	
PB Total 32.525 178,532 50,633					PB-C Subtotal	10.633	31,569			NA	6,764	
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POUND RIDGE WASTEWATER TASK FORCE

Appendix E: Photos of current conditions

Photos indicate wells that exist near Westchester Ave. and septic systems behind the buildings on Westchester Ave. under the parking lots and in one case extending into the woods, and high water table during an excavation.

















Pound Ridge Waste Water Task Force

Appendix C: Westchester County Health Department

9320-58 80 WESTCHESTER AVE -FIRE DEPT

P.S.D. Town of Poundridge	Date: Permit 8/19/49 Appreval
Location: Westchester Ave.	
SectionBlock:	
Owner: Poundridge Fare Depa	retment Dun Wa Nige O
<u></u>	realization of the property
Builder: Louis Beccaria, RF	
Builder: Louis Beccaria, RE	
Builder: Louis Beccaria, RF House: firehouse	TD #1, Box 79, New Cangan,
Builder: Louis Beccaria, RF House: firehouse Soil test made:	TD #1, Box 79, New Éangan, Rate:

Town of Poundriags		46-28	
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Separate Sewerage System Exprivate Water Supply	Municipality Municipality
CERTIFICATE OF CONSTRUCTION COMPLIANCE	WCDH File No. PR 91-07
Located at Westchester Grenuc	Section 7 Block 9820
owner found Bidge Fire Department	Lot 55,57,58 Job
Separate Sewerage System built by Gory Powell Consisting of Cx 750 Gal. Masonry, Metal Septi Lineal feet X 4x 4 width trench fri Go Other requirements	Address Grenwich Conn c Tank 48 ulleys
Water Supply Public Supply from Private Supply Drilled by	(isking Address
Building Type Fire Dept Offices No. of bedrooms	Date Permit Issued 1991
Erosion Control Completed	Waived
Other Requirements	
I certify that the system(s) as listed serving the above preshown on the plans of the completed work (copies of which a standards, rules and regulations, plans, filed, and the perpentinent of Health. Date $\frac{2}{9}/\frac{9}{5}$ Certified by January	re attached), and in accordance with the
Any person occupying premises served by the above system(s) may be necessary to secure the correction of any unsanitary Approval of the separate sewerage system shall become null sewer becomes available and the approval of the private wat when a public water supply becomes available. Such approva when, in the judgement of the Commissioner of Health, such necessary, said modification or change shall be done under Engineer or Registered Architect.	and void as soon as a public sanitary er supply shall become null and void ls are subject to modification or change revocation, modification or change is
With proper maintenance these systems can be expected to fu to create an unsanitary condition.	nction satisfactorily and are not likely

Date 2/14/95 Mark S. Rapoport, M.D., M.P.H.

Commissioner, By

Westchester County Department of Health

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WENTCHENTER COUNTY DEPARTMENT OF MEALTH - Division of Environmental Quality

DESIGN DATA SHEET - SEPARATE SEMERAGE STE	en pile 1	.	
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Located at (Street) (Indicate Bearest ere	os street)		
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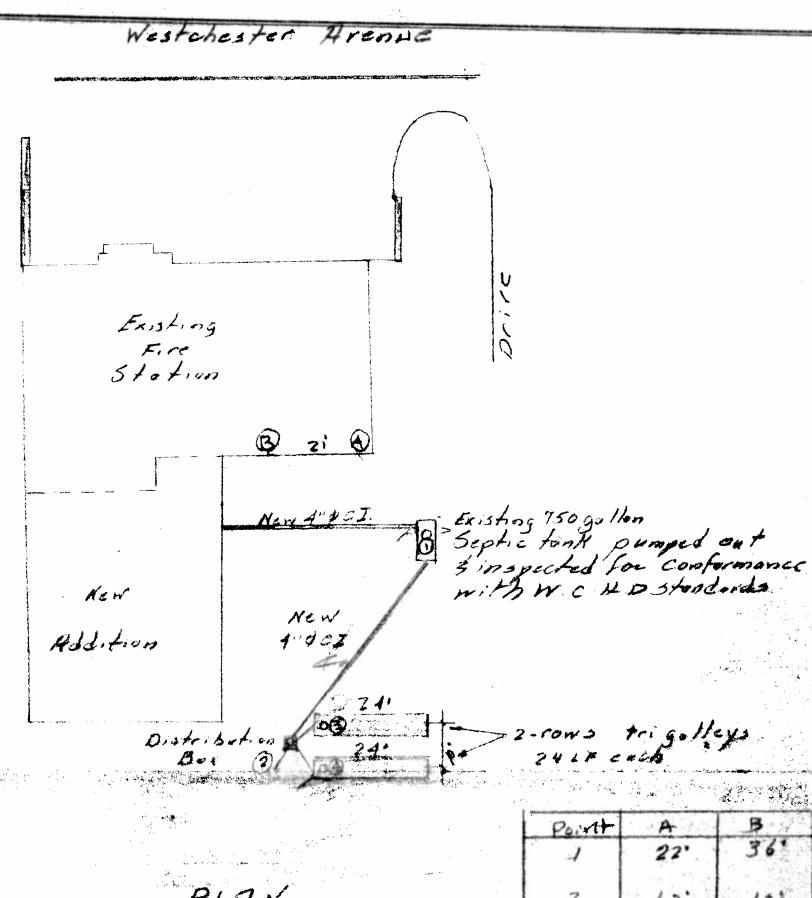
SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBCETTED WITH APPLICATION

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- 1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.
- 2) Depth measurements to be made from top of hele

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750gollun

Septic hall

PROFILE Scale 1"=20 hor 1"=10' veit.

ACCEPTE

AS FINAL PLANS

DATE 2/14/95

WEST. CO. DEPT.

OF HEALTH

EN S. Gun

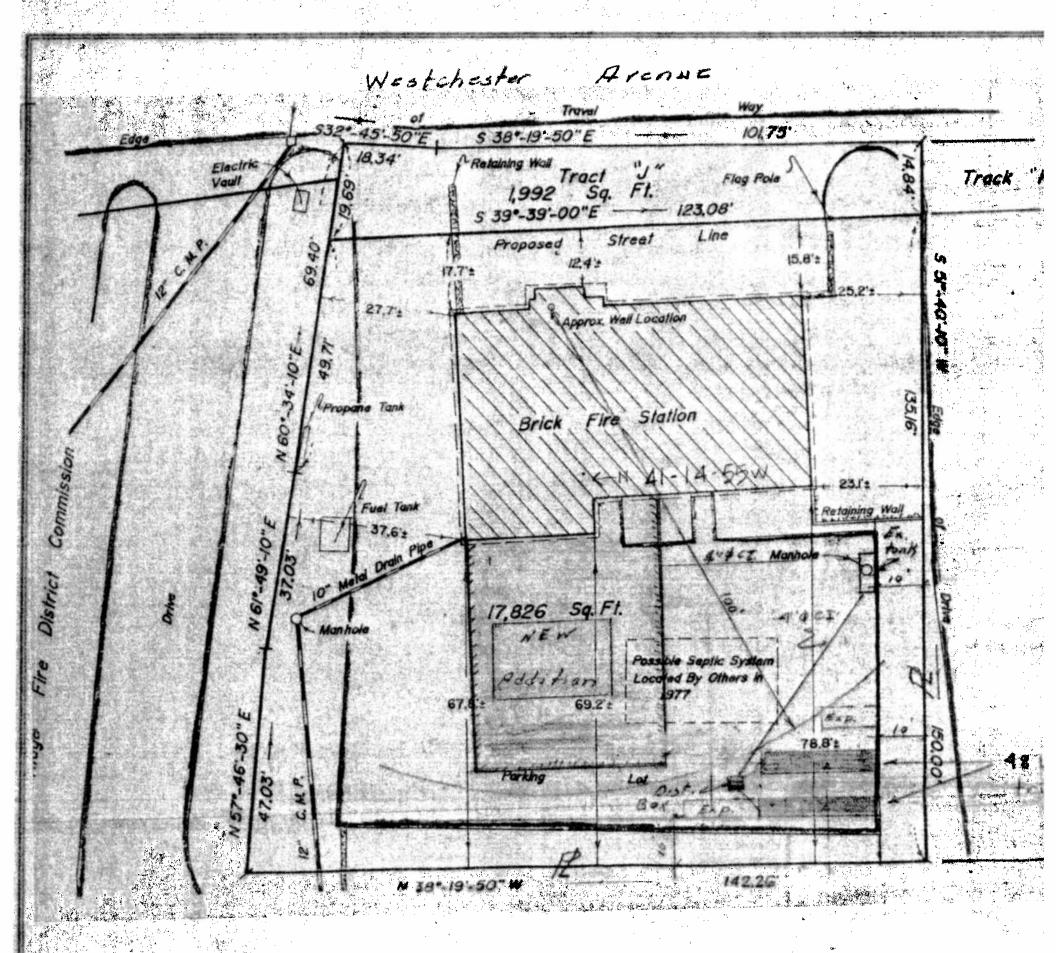
ASBULT SEWAGE DISPOSAL SYSTEM
Pound Bidge Fore District

Westchester Arense Paund Ridge, NX

SUB-DIV. T.M. NO.7- 9320 - 455

DATE 7-24-91

JOSEPH F. SULLIVAN P.E.

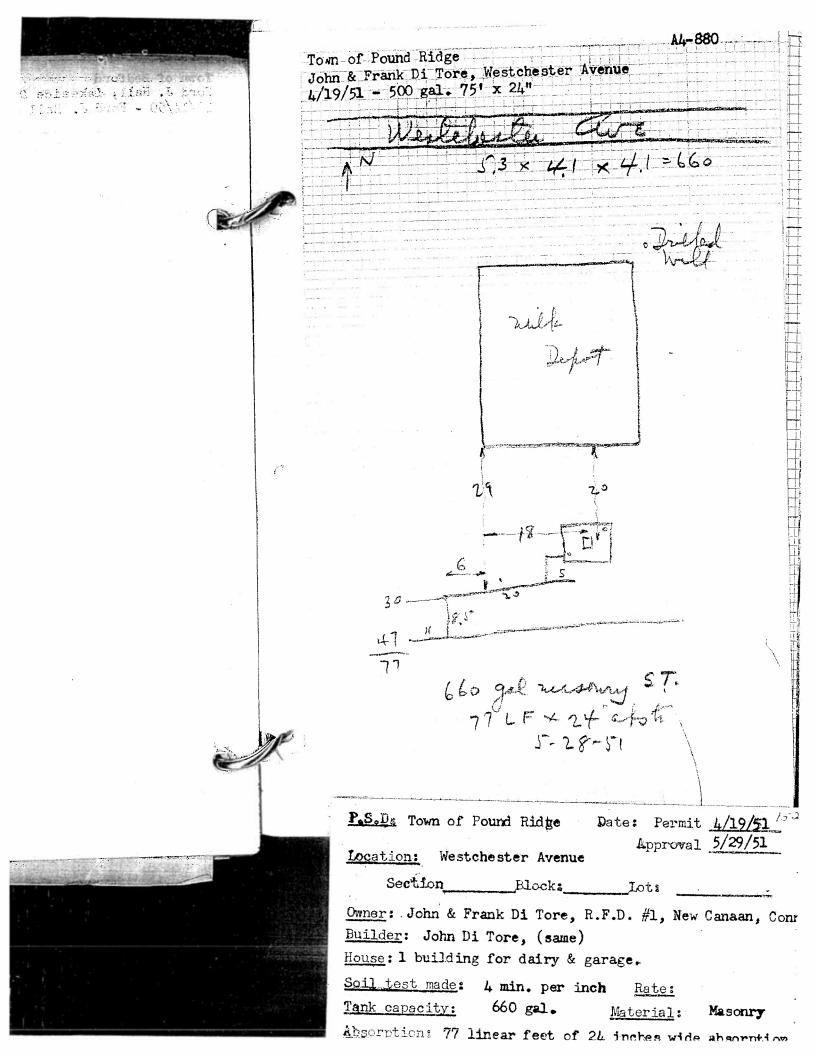


FLAN Scole 1'= 20'-0"

9320-59 78 WESTCHESTER AVE

WESTCHESTER COUNTY DEPARTMENT OF HEALTH William A. Holla, M. D., Commissioner

William A. Holla, M. D., Comm	issioner
TON OF SANITATION	
McLaughlin, P. E. Director	Application Recid
/n. M. Gray, P.H., A. B. C.	
no no cummings, P. E. P. M. d.	Final Approval
Targineers	
APPLICATION FOR RESTREAM	ACE DIGE
(Please type or print) (See Rule	VAGE DISPUSAL PERMIT
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Application is the state of the	a negororm S.D.22)
system to serve. I Build NG made for a permit to c	onstruct a sewage di
(Number Happanana)	RACE
Application is hereby made for a permit to construct to system to serve. I BUILDING: FILL PAINTS OF DUILDING TORE	g to be served.)
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Note: (Owner must receive permit and appropriate of the Property at Waste Hester Ave	Chole L
2. Property at Wast receive permit and appropriate the state of the st	oneck here for extra
FOUND	UDGE (SCATTS CARNED)
(Street) (Village,	Town, City)
1 Dection Disale	0 /
4. Construction: New, Replacement; Proposed Future 5. Lot size 40 1 150 (Expansion)	**************************************
5. Lot size 40 x 150 (Expansion	Building NEW
TODOS & DDCC1AL Hivtunca	Bathroom
Extra lavatories. Special Fixtures. Max 6. Source of water supply. WELL Watershed on which	1mum Future Occupancy.
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Distance to nearest watercourse	ford water Ithelis
Watershed on which system is located. Distance to nearest watercourse. Owner's we 7. Daily Sewage Flow: No. of page	ells . Adjacent Wells (50°
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Minimum liquid capcity - 500 gallons; 200 ga. 9. Soil absorption test	llons per bedroom.
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(MUST BE MADE BY APPLICANT AT SITE)	(frame 13)
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10. Absorption area. (No.7) Absorption rate from tagles. Absorption treatment: Trenches. 2.4. inches wide	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
ll. Absorption treatment: Trenches. 2.4. inches wide.	ble bottom area
TOUGHT DITTO STATE STATE OF THE	h0++ om - 4
Absorption area: trenches leaching pits to	up, rock-filled.
Signature. By owner or person presenting owner's pr)
(By owner or person pro-	WNER
(By owner or person presenting owner's writed to R.F.D.) FW CANBON	itten authorization)
SKETCH REQUIRED showing all features of property, disposal system. Failure to secure permit before	********
disposal system. Failure to secure no property,	wells, streams and sewage
disposal system. Failure to secure permit before tion of the County Sanitary Code and is a misdemeat INSPECTION OF COMPLETED SYSTEM BEFORE PACKETLES.	construction is a viola-
DISTEN BEFORE PAGESTITION	nor,
S. D. 7 - 9/50	LO REQUIRED.



WESTCHESTER COUNTY DEPARTMENT OF HEALTH

William A. Holla, M. D., Commissioner White Plains, N. Y.

Issued April 19, 1951

Promophingly

PERMIT FOR SEWERAGE SYSTEM

APPROVAL is hereby given pursuant to Article VII of the Sanitary Code of the Westchester County Health District to Frank Di Tore, R. F. D. #1, New Canaan, Connecticut.

to construct or provide a sewage disposal

system consisting of a 500 gallon masonry septic tank and 75 linear feet of 24 inches wide absorption trench

to serve one building for dairy & garage, owned by John & Frank Di Tore, Westchester Avenue, Town of Found Ridge, New York.

for an occupancy of

persons, provided that

- I. No portion of the system shall be backfilled or covered until inspected.

 Inspections are made during regular working hours only. Twenty-four hours' notice is required.
- II. The system shall not be used until it has been constructed in an approved manner, inspected and backfilled, and the written final approval thereof shall have been obtained from the Department of Health. (See Item VIII).
- III. Additional or more adequate facilities shall be provided whenever it is determined by the Commissioner of Health that such facilities are necessary, for which an additional permit shall be obtained.
- IV. This system shall be maintained and operated in complete conformity with rules and regulations for the protection of public water supplies, all applicable laws, local ordinances, and the provisions of the Sanitary Code, existing or hereafter enacted.
- V. When sludge and scum shall so accumulate in any tank as to occupy a depth at any point of more than one quarter of the liquid depth of the tank, they shall be removed and disposed of in accordance with the requirements of the Sanitary Code, and so as to create no nuisance.
- VI. A connection to a public sanitary sewer shall be made whenever such sewer shall become available.
- VII. This permit remains the property of the Department of Health and is revocable at any time or subject to modification or change whenever the Commissioner of Health shall deem necessary.
- VIII. It shall be the responsibility of the person obtaining this permit to deliver a true copy thereof together with a copy of the final approval to the owner of the premises served by this system before this system is placed in use.

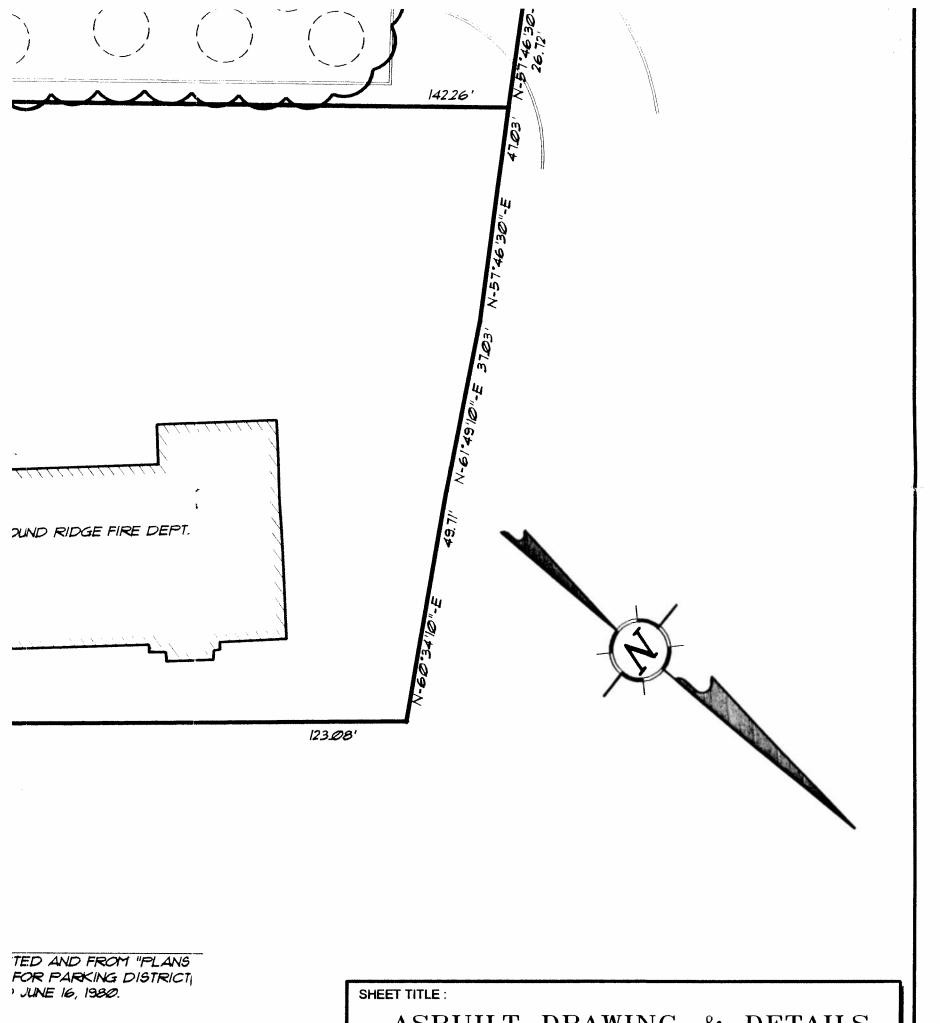
DUCAT

Commissioner of Health

S. D. 5 9-50-21767

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9320-60 76 WESTCHESTER AVE



WANHOLE COVER OVER "D" BOX



ASBUILT DRAWING & DETAILS

PROJECT:

SEPTIC ASBUILT

PREPARED FOR:

ROTH ROSALIE

PROJECT LOCATION:

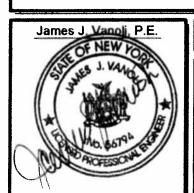
SCOTTS CORNERS WESTCHESTER COUNTY, NEW YORK

JJV, PE

Consulting Engineering Site Development

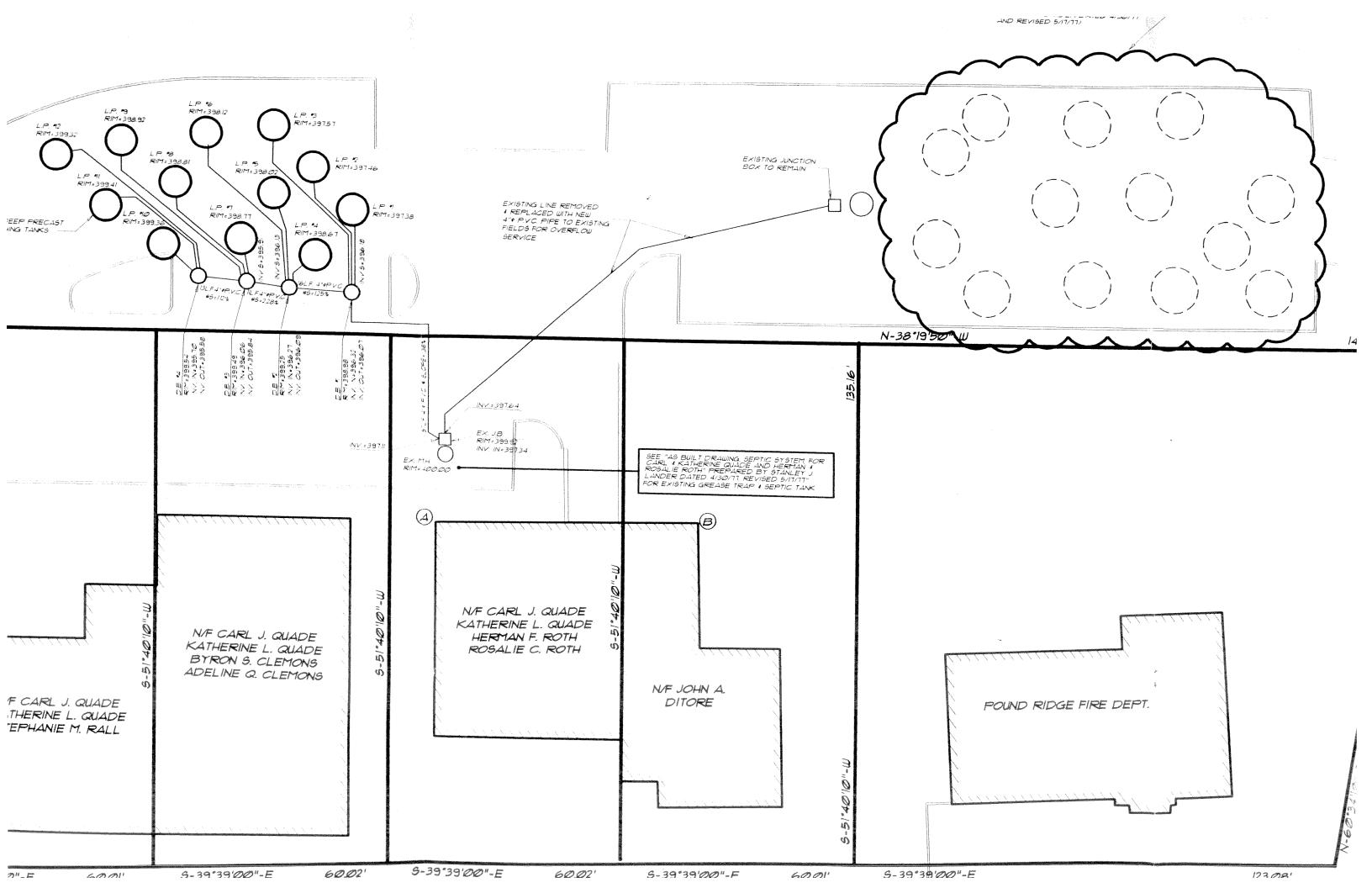
James J. Vanoli, P.E. 752 Old Kensico Road Thornwood, New York 10594

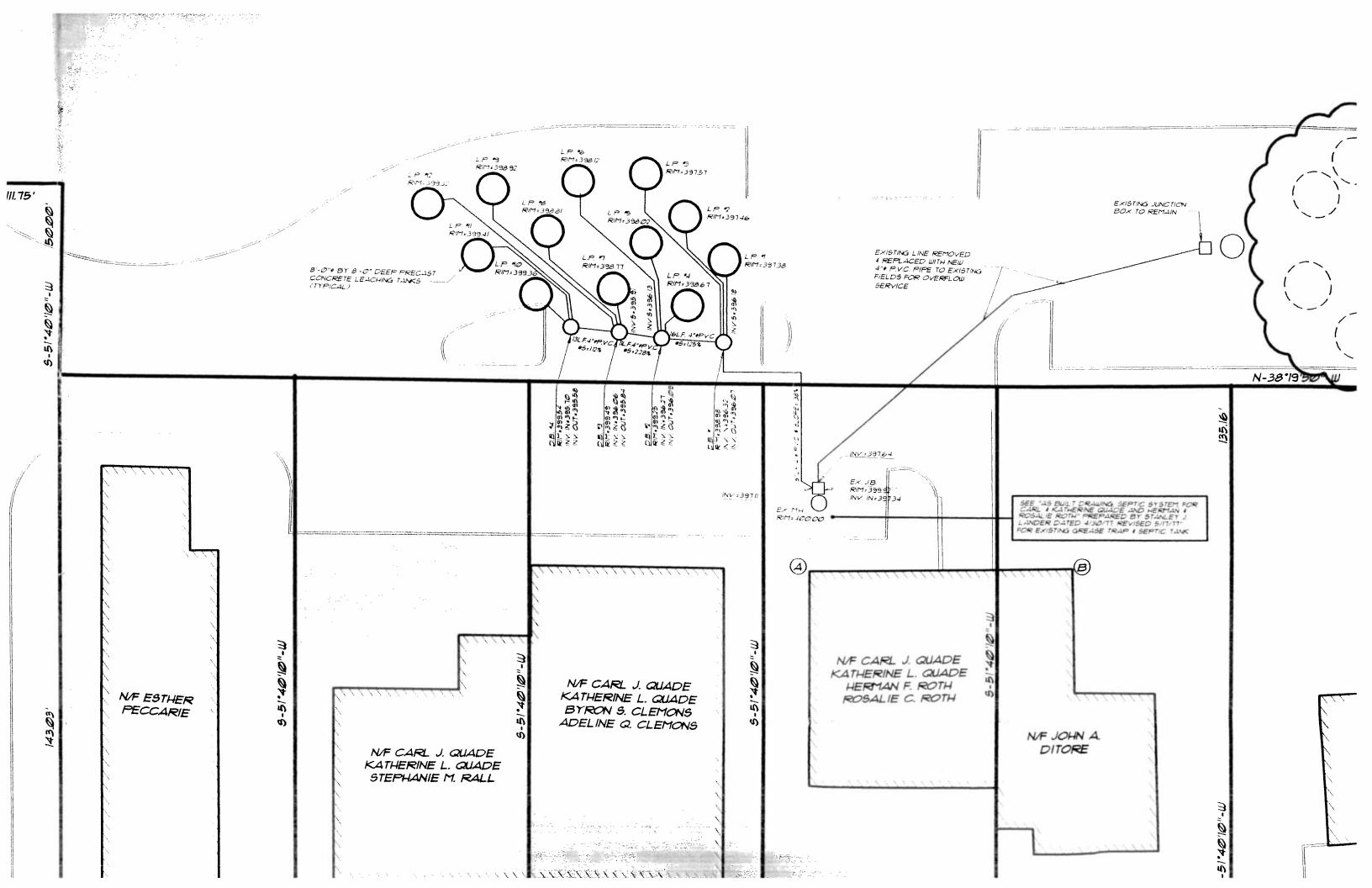
Telephone 914.769.0902 Fax 914.747.3402

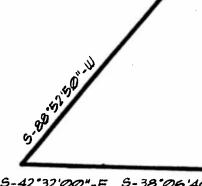


1"=20" SHEET NO. SCALE: 04/13/02 ORIGINAL DATE REVISION

of







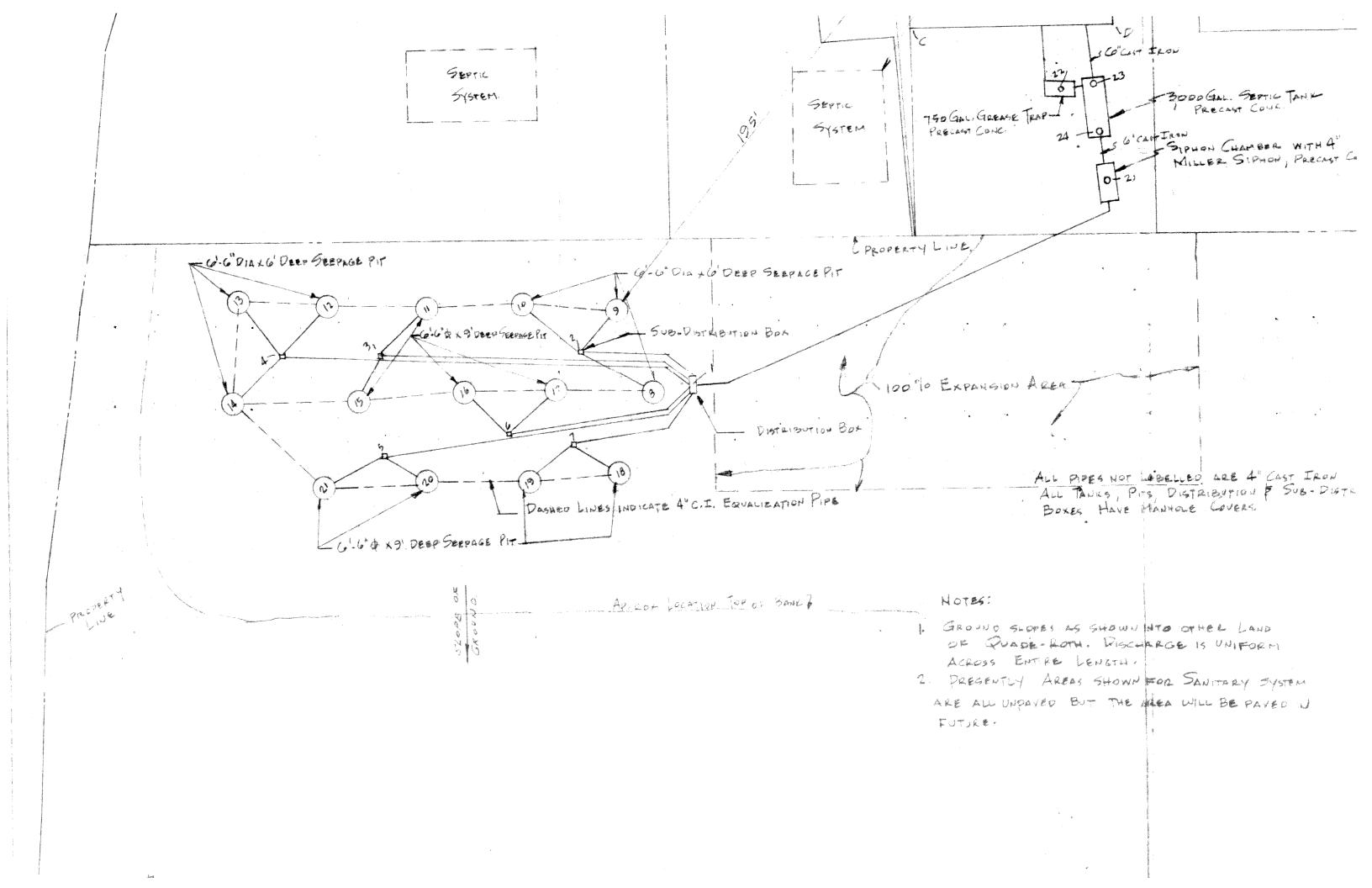
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D.B. • 4	87'	143'	
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L.P. • 3	IIO'	149'	
L.P. • 4	75'	120'	
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L.P. • 12	135'	189'	

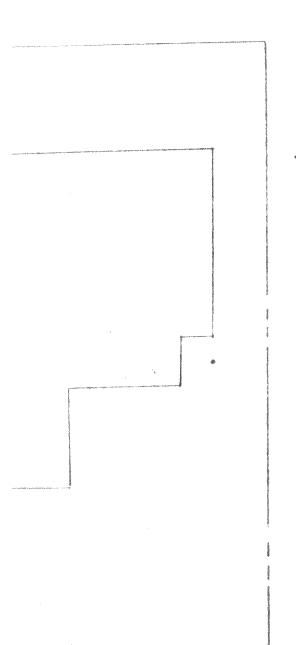
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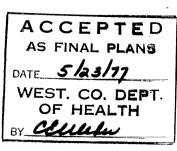
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AS FINAL PLANS
DATE 5/23/77
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OF HEALTH
BY CLUMBER

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THE LOTS SHOWN HEREON ALE KNOWN AS LOTS 56460 BLOCK 9320 ON TOWN ASSESSMENT MAPS



AS EDULT DRAWING

SEPTION SYSTEM

FOR
CARL & KATHERINE QUADE

HERMAN AND ROSALIE ROTH

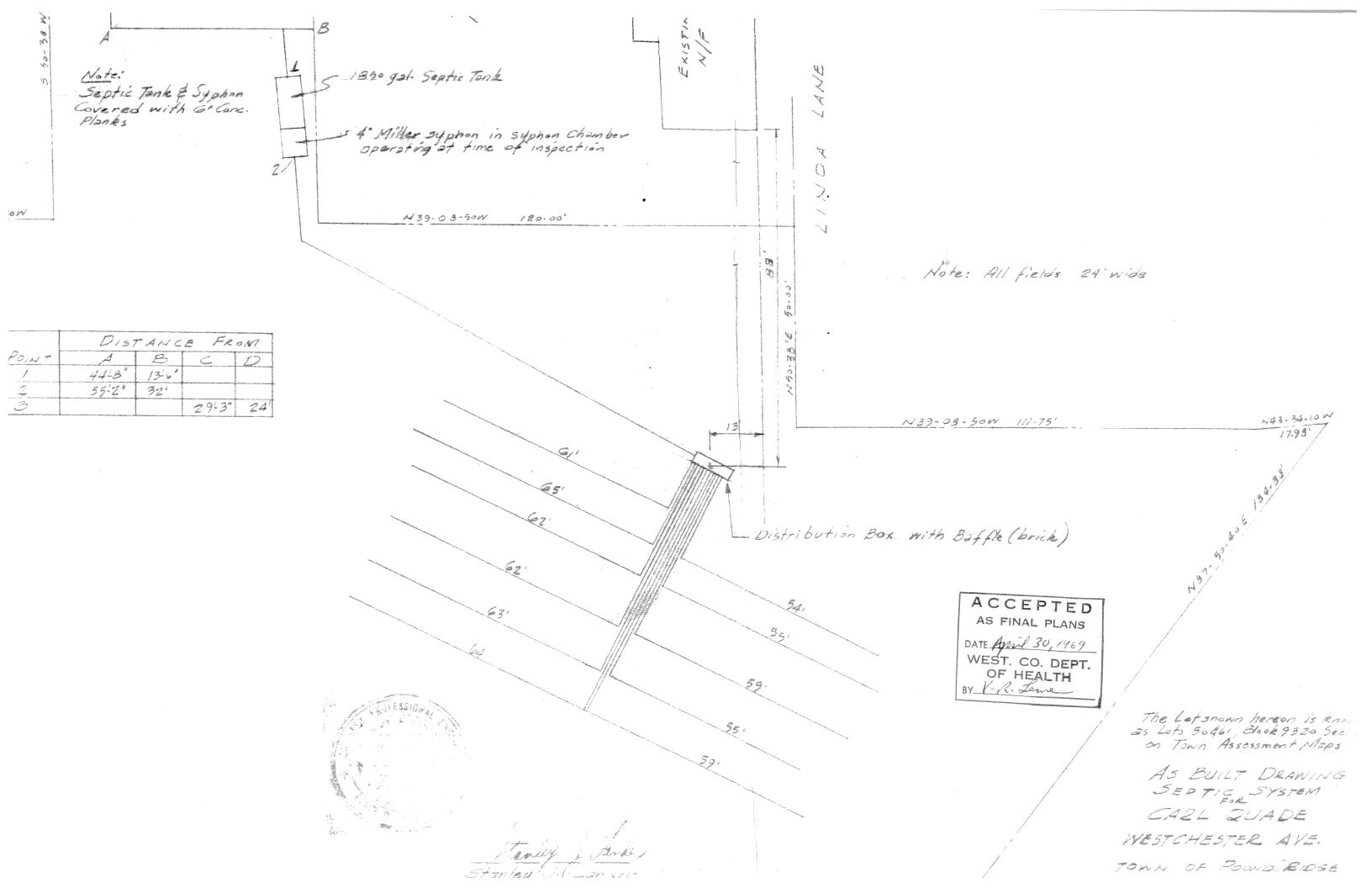
WESTCHESTER AVE

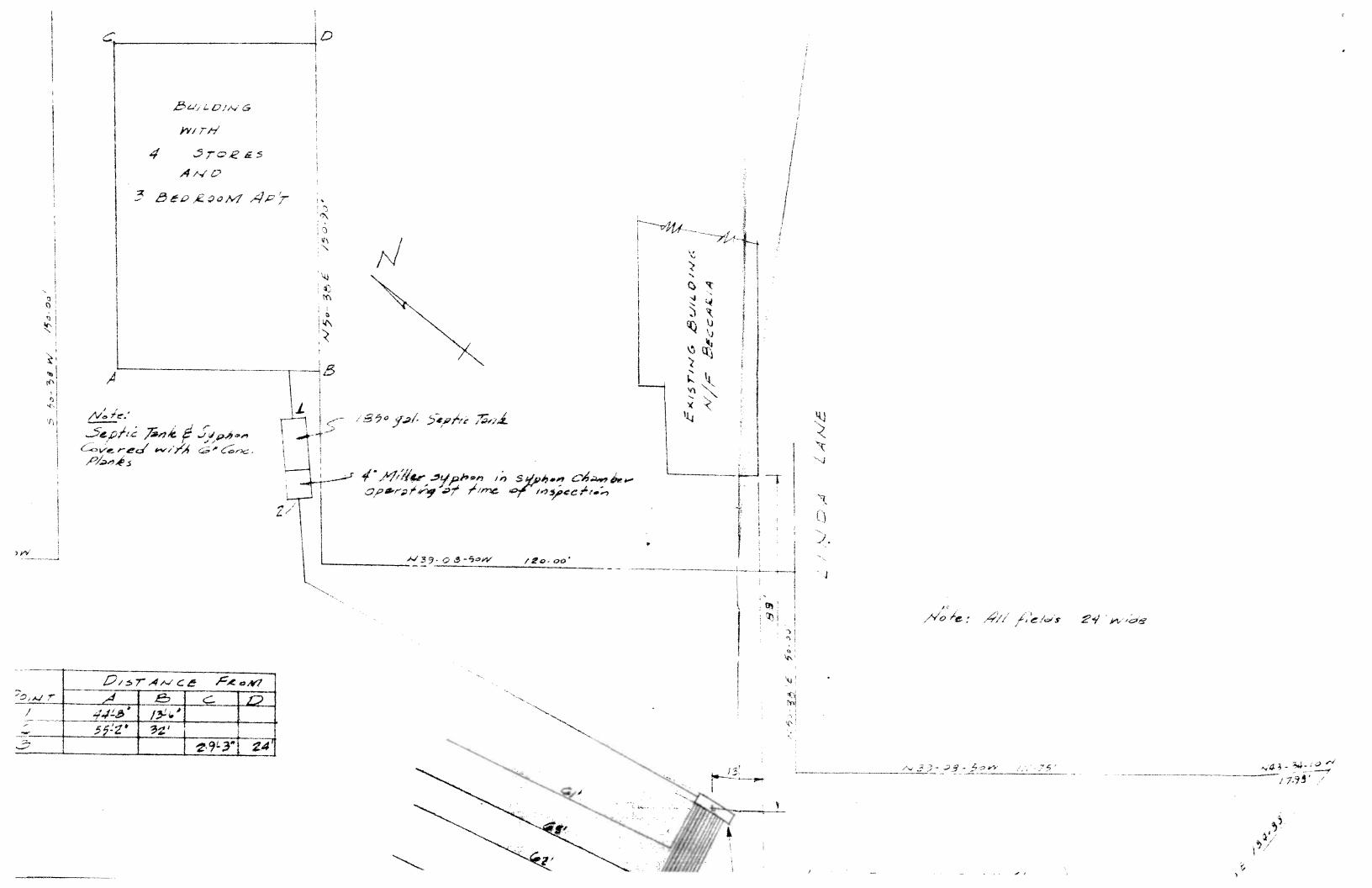
TOWN OF FROUND RIDGE

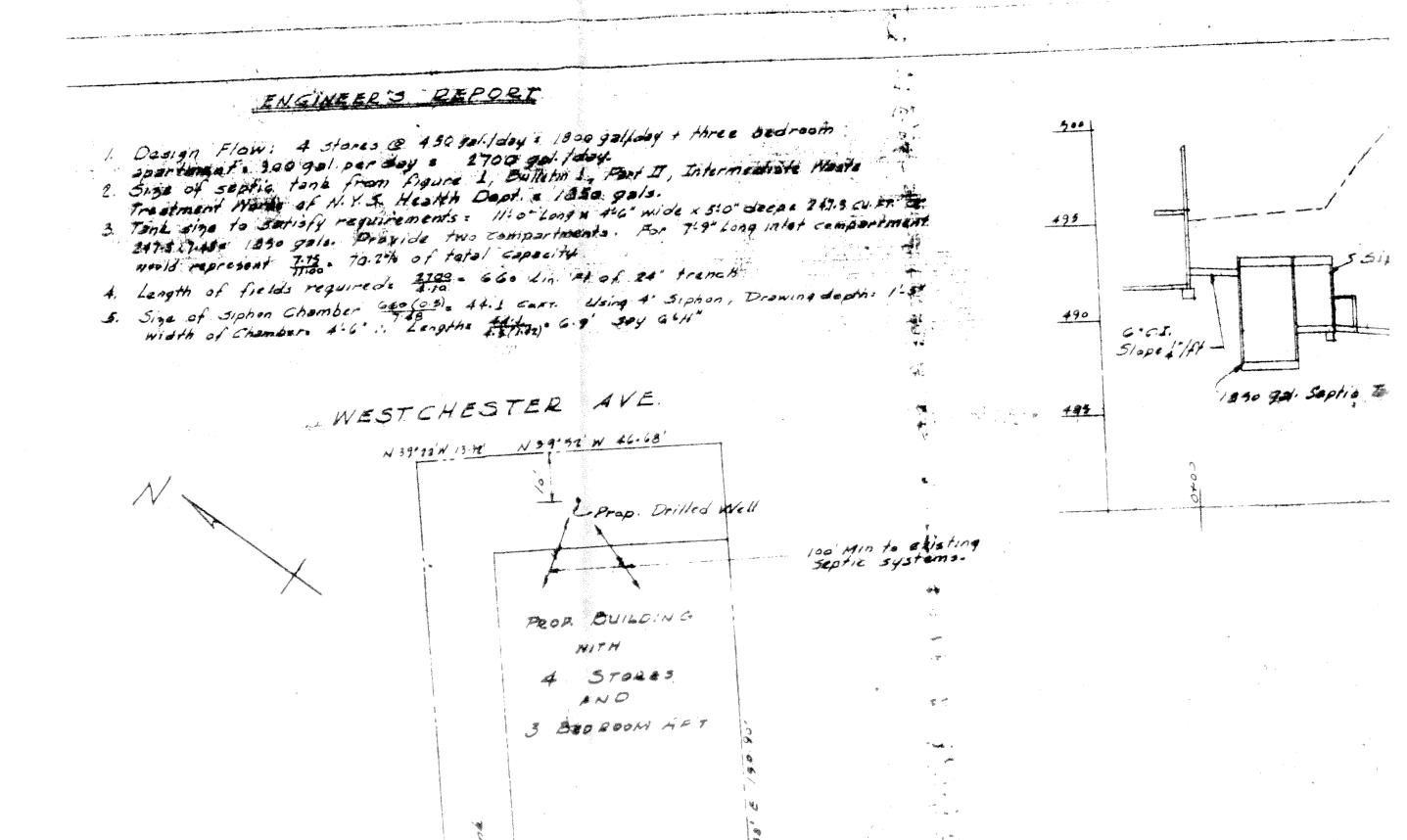
WESTCHESTER COUNTY NY

ARRIE 20 1977 REV. 5-17-77

9320-61 74 WESTCHESTER AVE







9320-63 70 WESTCHESTER AVE

9320-63 70 WESTCHESTER AVE

P.S.D. Poundridge

Date: 9/3/47

Location: Westchester Ave.

Sections

Block:

Lot:

Owner: Frank Beccaria, R.F.D. 5, Ridgefield, Conn.

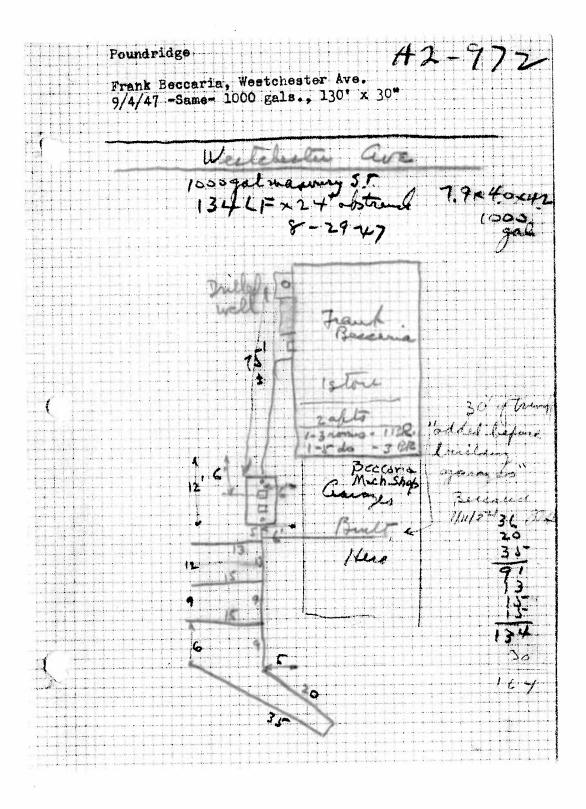
Builder: -Same-

House: 4 bedrooms and 2 bathrooms (Max.Occ. 7 persons)

Soil test mada: Reto:

Tank capacity: 1000 gallons Material: masonry
Absorption: 134 linear feet of 24 inches wide xxxxx
absorption trench.

Approval issued: Sept. 4, 1947 Sketch-Book: A2-972



WESTCHESTER COUNTY DEPARTMENT OF HEALTH

William A. Holla, M. D., Commissioner

Dewers Porudidge

White Plains, N. Y.

PERMIT TO PROVIDE A SEWAGE DISPOSAL SYSTEM

Application having been duly made to the County Commissioner of Health as required by Article II of the Sanitary Code of the Westchester County Health

District, permission is hereby given to Connecticut, for the constr Gennecticut, for the construction or provision of a sewage disposal system consisting of a 1000 gallon mosonry septic tank and 130 linear feet of

30 inches wide absorption trench,

to serve a house owned by Frank Beccuria, Westchester Avenue, Town of Foundridge, (Maximum Oscupancy - 7 persons) New York

subject to the following conditions:

- I. That this department shall receive due notification and be afforded an opportunity to inspect the system before any portion is backfilled or covered.
- II. That this system shall not be used until the written final approval thereof shall have been obtained from the Department of Health.
- III. That such sewage disposal system in 1 be constructed in complete conformity with the application data and plans as approved or with approved amendments thereto. Any changes in this system must be approved.
- IV. That such system shall receive only the sewage or wastes from the structures or premises covered by the spermit.
- V. That such system shall be so maintained and operated as not to expose sewage or sludge, or create a condition of nuisance.
- VI. That this permit shall not be construed to invalidate any rule or regulation enforceable by any local authority having jurisdiction.
- VII. That all duly enacted sules and regulations for the protection of water supplies shall be compared th.
- VIII. That a connection to the public sewer shall be made as soon as such is available.
- IX. That whenever it is determined by the Commissioner of Health that additional or more adequate sewage disposal facilities are necessary, such facilities shall be provided, plans for which shall first be submitted to and receive the approval of the Department of Health.
- That whenever the sludge and scum shall so accumulate in any settling tank as to occupy together at any point more than one-fourth of the distance between the bottom and the flow line, they shall be removed.
- That whenever sludge and scum is removed from any settling tank or any part of the system, it shall be done in such a manner as to cause no nuisance and the material disposed of by burial in some remote place at least 250 feet from and house, road, well, spring, stream or other body of water, and covered with not les than 6 inches of earth in such a manner that it will not flow or be washed by rain or melted snow or other means over the surface of the ground or into any well, stream, spring or other body of water.

XII. That this permit shall be revocable at any time or subject to modification or change when in the judgment of the Commissioner of Health such revocation modification or change shall become necessary.

September 3, 1947. Date: HIG: ME

THE OWNER OR HIS AGENT MUST RECEIVE THIS PERMIT OR A COPY THEREOF

ec: Mr. Everett B. Knapp, Town Clerk.

rion, Director, Director Willer of the wind section of the work of

COUNTY OF WESTCHESTER
DEPARTMENT OF HEALTH

William A. Holla, M.D., Commissioner County Office Building White Plains, New York

					¥						1	Υ)	
File.		•	٠	٠			•	٠	•	*	₩.	*	•
Permit							•	•	٠		÷		٠
Inspecte	be		b	y			*						
Final Ap													
Sketch 1													

APPLICATION FOR SEVAGE DISPOSAL FERMIT (See Rules and Regulations - Form S.D. 22.)

То	the Commissioner of Health:	Date
	Application is hereby made for a permit to construct	a sewage system to
	(Number, type and use of building to be cerning which the following information is submitted:	
1.	Owner Frank Beccaria Mail Address R: Note: Owner must receive permit and approval. Ch	eck here, int expla cobless.
2.		
3.	Tax Map Location: Section Block. 225 Lot	
4.	Construction: New, Replacement, Proposed Future Bui	iding
5•	Lot area 40 X /5.0. No. of rooms Bedrooms	um future occupancy
6.	Watershed on which system is located	70.1. Adjacent wells 300.1.1
7.	Daily Sewage Flow: No. of persons x 75 gals.=	gals. per day
8.	Settling treatment, Septic tank: liquid capacity bel Material manning inside dimensions: length. 8 wid	ow flow line. 10.0.2.2
	Note: Liquid capacity of tank shall be not less that day with a minimum of 500 gals.	
9.	Type of soil: clay, loam, sand, boulders, rock; sur drainage: good, fair, poor. Absorption test:minutes per inch drop*	Absorption rate
		(II om casio)
	Note: Except in clay soil, a rate of 1 gal. per sq. shall be used unless a higher rate is establis	SHERL DA SOTT ACDA.
10.	Absorption area: 32.5	rom table bottom area.
11.	Absorption treatment, Trenches: 3.0. inches wide; distributing tile; Gravel. 2 Cu. yards, to depth of inches bel Leaching pits: number outside dimensions wall area below flow line material Absorption area: trenches leaching pits	low bottom of pipe depth below flow linebuilt-up, rock-filled.
	Signature: Frank Deccaria	Title: Contractor
	(By owner, builder, or officer of sewage of Mail Address: R	Gefresd Comm!
Ske	etch required on reverse side or on attached sheet sho	owing plan with general

Sketch required on reverse side or on attached sheet showing plan with general relation of dwelling and property boundaries, wells and streams to system and arrangement of absorption facilities, together with all other pertinent data, including details of grease trap, manholes, diversion gates, siphon, curtain drains, special structures and unusual features. Failure to secure permit before construction or final written approval of the system before using is a violation of the County Sanitary Code and is a mislemeanor.

9454-10 73 WESTCHESTER AVE

	W-11		11	1-3
ystem.		Pau	18:1	
ERTIFICATE OF COMPLETION	2 6 7 6 1 1 1 1	1	unicipality	
cated at N/S West To te, ave	Feetts Con	Section-Ward		
mer Wellen Dender				
THE PARTY		Block	1 11 1	100
stem built by		Lot	Job #	- 6 8
iding type 150-16 * S. Tartey Permit issued	27 Jan 59	W. C. D. H. File	PR3-1)	
stem consists of 2700 Gal. mesonry, m	Doller Par	5/2_Lineal feet X_	2Width trench	TILE COP
				13
The separate sewage system serving the above premises was constructed essentially	in accordance with plans filed	with this Department an	d the terms of a Permit issued	d
on the above date and otherwise as shown on plans of the completed work, copy promptly take such action as may be necessary to secure the correction of any un	sanitary condition resulting from	m such usage. This appl	royal is revocable as soon as a	F2711
public sanitary sewer shall become available and is subject to modification or char or change shall be necessary. TRUE COPIES OF THE PERMIT, PLAN OF THE	SYSTEM AND OF THIS CERTI	FICATION AND ANY CH	ANGES THEREDE SHALL DE	
MAINTAINED ON THE PREMISES AT ALL TIMES AND SHALL BE SHOWN I With proper maintenance this system can be expected to function satisfactor	ily and is not likely to create	an unsanitary condition	OF HEALTH UPON DEMAND	
not to lead of the	mul Du	cles eve	t an yeary	
ate	commissioner By	ak. Ve		
		Jan E	ry.	
parate Sewage System		7		
PPLICATION & CONSTRUCTION PERMIT	6.6.3.	tou	Aunicipality	
VIEWFUET-PENER	Conce Nil			j J
cated of VV I 3 / - VI 2 / - V	IX BERT STORY	Section-Ward_		
uner WELLIE SHIPPELING DE LOT SO Address 216 L	LMST N.C.	LIN Block	<u> </u>	.
be constructed byAddress		Lot	Job #	E COPY
Building Type	51	Lot Area		#
Surely type		LOT ATEL		•
STEM CONSISTING OF gal mosonry, metal septic tank: Innea	feet x	width trench		
ther requirements. FRINCE NSTALL ATIONS	undertu	led glan		. 4
Not for Restaurant, Hairdress	er or Store usi	no min Ar	At of water	
IARANTY: I represent that I am wholly and completely responsible for the location, material, constructed as shown on the approved plan, or approved plan, or approved plan, or approved plan are completion thereof I will furnish a written guaranty to the o	ection and drainage of the proposed s	donce with the standards rules	and regulations of the Martchartes	
ndition any part of said system constructed by me during the period of two years immediately follow	ing the date of construction of the orig	inal system or any repairs then	of regith to place in good operating	
Xan 22-19 signed 5	to lay B. E	a trace	as Theor	
PROVED FOR CONSTRUCTION: This approval expires one year from the date issued unless construction		THE RESERVE THE PARTY OF THE PA	Control of the Contro	- 389
addied when considered necessary by the Commissioner of Health. Any change or alteration of constru	of building or sewer system shall have	been undertaken, and is revoked for disposal of dementic	able for cause or may be amended or	
portined when considered necessary by the Commissioner of Health. Any change or olderation of constru	uction requires a new permit. Approved	been undertaken, and is revoked for disposal of damestic sanit	able for cause or may be amended or any sewage only.	
opinied when considered necessary by the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health. Any change or olderation of construction of the Commissioner of Health.	uction requires a new permit. Approved	been undertaken, and is revok d for disposal of domestic sanit	able for cause or may be amended or any sewage only.	

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_Width trench	FILE COPY				
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Permit issued					
s system shall as soon as a	100				
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OF SHALL BE					
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122					
water					
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westchester operating					
2					
do A	1 4 1 - 1				
Z					
be amended or					
	21 12 42				

County of Westchester DEPARTMENT OF HEALTH - Division of Environmental Sanitation
DESIGN DATA SHEET - SEPARATE SEMERAGE SYSTEM
Located At (Street). WESTSHESTER AUE PRINCE. Job #
Owner N.E.W. CANAAN DEVELOP MENT CO. Sec. Blk Lot
Present. Mail Address OVICTOR. CHRIST-DANER, ARCHT? NEW CONDEN. COND
Watershed Planface Lot Area 74 AC. S. D. Usable Area 15,000 SQFT+
Water Supply: Drilled, Driven, Dug Well, depth Public
No. of Rooms Bedrooms Future: Yes No Other
Septic Tank Capacity (From Table, Item 5.1). 2-700 .Gals, Masonry
Soil Rate Used
Soil Rate Approved
Absorption Area Required (Table Item 10.5)
Absorption Provided Pr / / Lines of 33 of the state of th
Absorption Provided By 16. Lines of. 32.ft. x 24" trench; other . TRIPLICATE PLANS AND PROFILES OF SEWERAGE SYSTEM REQUIRED DRAWN TO SCALE OF NOT MORE THAN 1" TO 20' HORIZONTAL AND 1" TO 10' VERTICAL FLOOR PLAN OF BUILDING (REQUIRED)
PLOT PLAN (Check Items) SEPARATE SEWERAGE DISPOSAL SYSTEMS PROFILE
2. Scale, north point, date
building;tank;
DISTANCES (Nearest Foot) TO:
25. Property lines (within 2501) (before and after grading)
G. Ground Water Elevation
street; area; roof; 8. Flow Line Elevations
Adj. ponds. etc.
12. Curtain drains to discharge nt 70 Curtain Water Elevation
and tanks (underground)
14. Trees, over 6" diameter, when grown Reviewed by
in or above sewage disposal area. Date:
DATA SUBMITTED BY THE PEASE CO. OWNER (); BUILDER (); CONTRACTOR (SOME)
OWNER (); BUILDER (); CONTRACTOR (SOME) IF CORPORATION, GIVE NAME AND TITLE THE PEOSE CO. RIPOGERS MOCKED, MAIL ADDRESS 488 GAENDROCK RD. STAMFORD TELEPHONE NUMBER F1-8-6244
S.D. 7.1 - 1957

Westchester-County Department of Health
SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

DLE O.	CLOCK TIME	ELAPSED t	DEPTH TO WATER	DEPTH TO WATER	DROP d	RATE t/d	TYPE SOIL	OF	
	11:40	30.	8"	18"	10"			SANDY.	LOOM GRAVE
	11:50	30	9"	18"	9"	1"-5'	ORP.	saupy	LODIM GRAVE -LODIM - GRAV,
	o market digitari kapata sa digita ka da ka d Ba da ka					MAN American and a section field by American Aphilipment ,			
Market and a second				all the selection with a light consistency and provide the selection of th					
di-fronstromento, e suo		p.		Vandalliähetaan over vassetaan oli vasta vasta oli vasta					
	and the second s	a del Carlo Biologico de Carlo Ca	***************************************	and the state of t					
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offende de life flywing make cyfryddy.									
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				n silin salah salah karantaran kemahan karantaran yang gang dari karantar	Same and the same a				
Tes	ts made 1	oy TH	E P	BASE	<u> </u>			Date DBC.	30,1958

S.D. 27.5 3/18/57

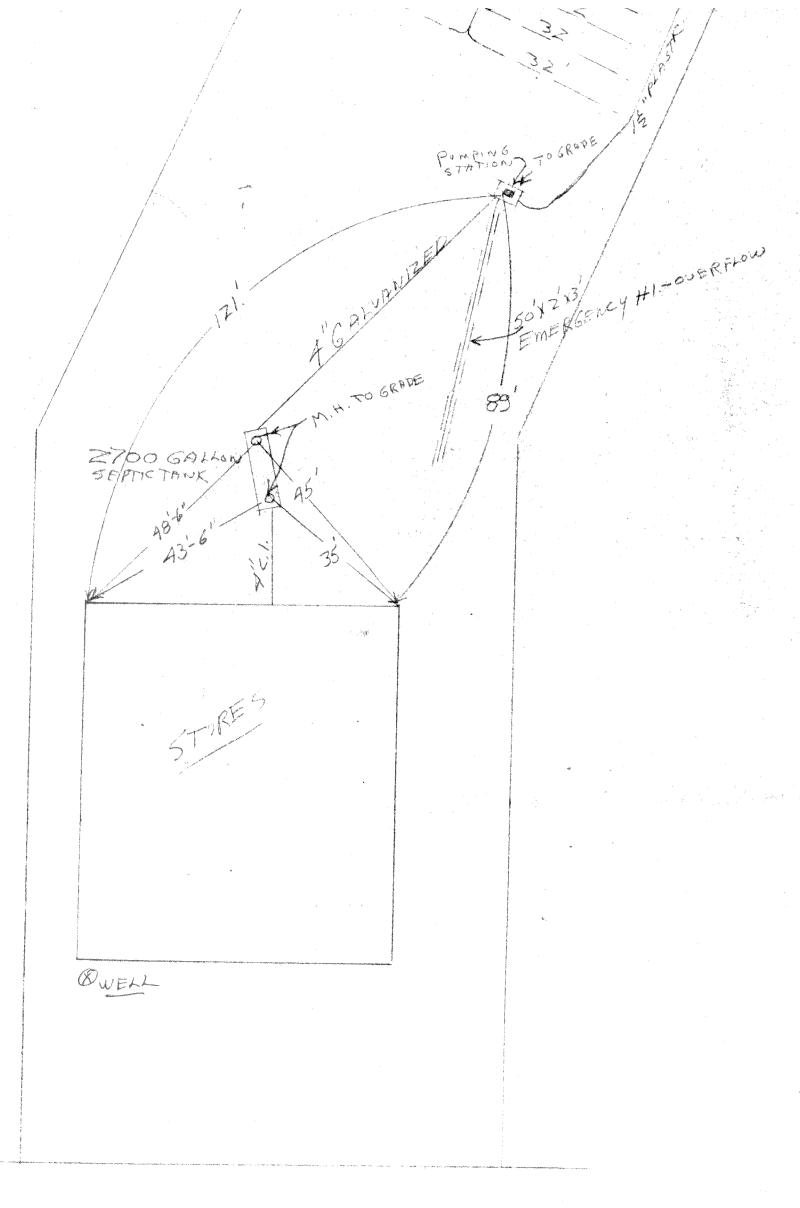
Westchester County Department of Health

TEST PIT DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

	DESCRIPTION OF COLDS EN	COOMIEMED IN 1821 HOPE?
DEPTH	HOLE NO	HOLE NO. HOLE NO.
3.L.	TOP SOIL	TOP SOIL
6"	TOPSOIL	TOPSOIL
12"	SANDYLORM	Sandy Loam
rg"	SANDY LOAM	SANDY LOAM
5thu	SAND LOAM GRAVEL	SANDY-LOAM GRAVEL
3 6 ⁿ	SAND GRAVEL	SAND & GRAVEL
36"		
42 "		
18 ¹¹		
54"		
5 0 "		
66"		
72 ⁿ		
78"		
34 H		
INDICAT INDICAT	TE LEVEL AT WHICH GROUND WATER IS E TE LEVEL TO WHICH WATER LEVEL RISES	NCOUNTERED AFTER BEING ENCOUNTERED

Tests made by . 1. H.E. P. F. A.S.E. . CO. Date DEC 30,1958

S.D.27.6 3/18/57



WESTCHESTER

phi) V for.

APPROVED

SEP 171959
West, Co. Bept.
of Heagh
By ak decon

SEWAGE DISPOSAL SYSTEM
FOR

NEW CANAAN PEVELOPMENT CO.
SCOTTS CORNERS POUND RIDGE
BY

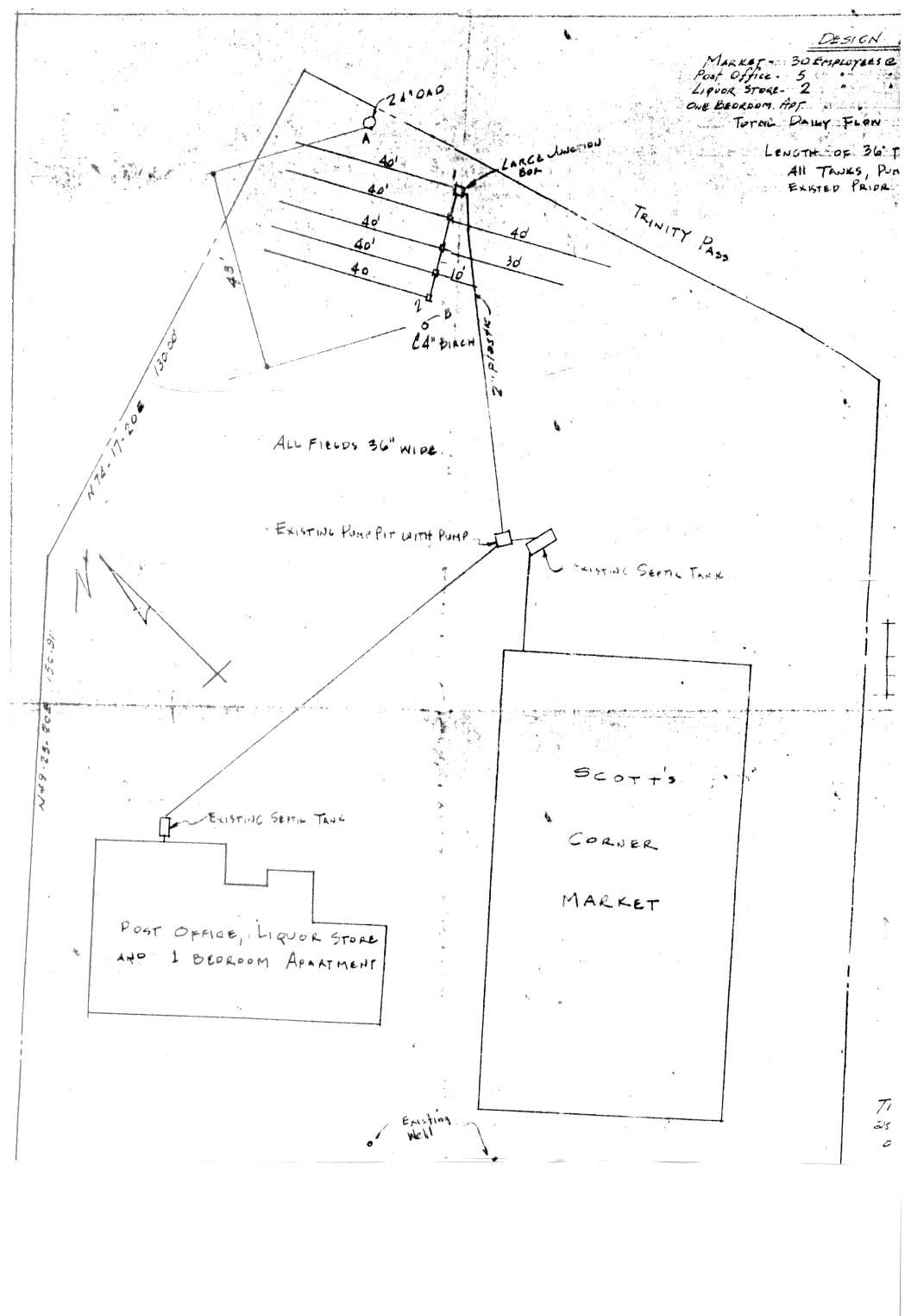
THE PEASE COMPANY

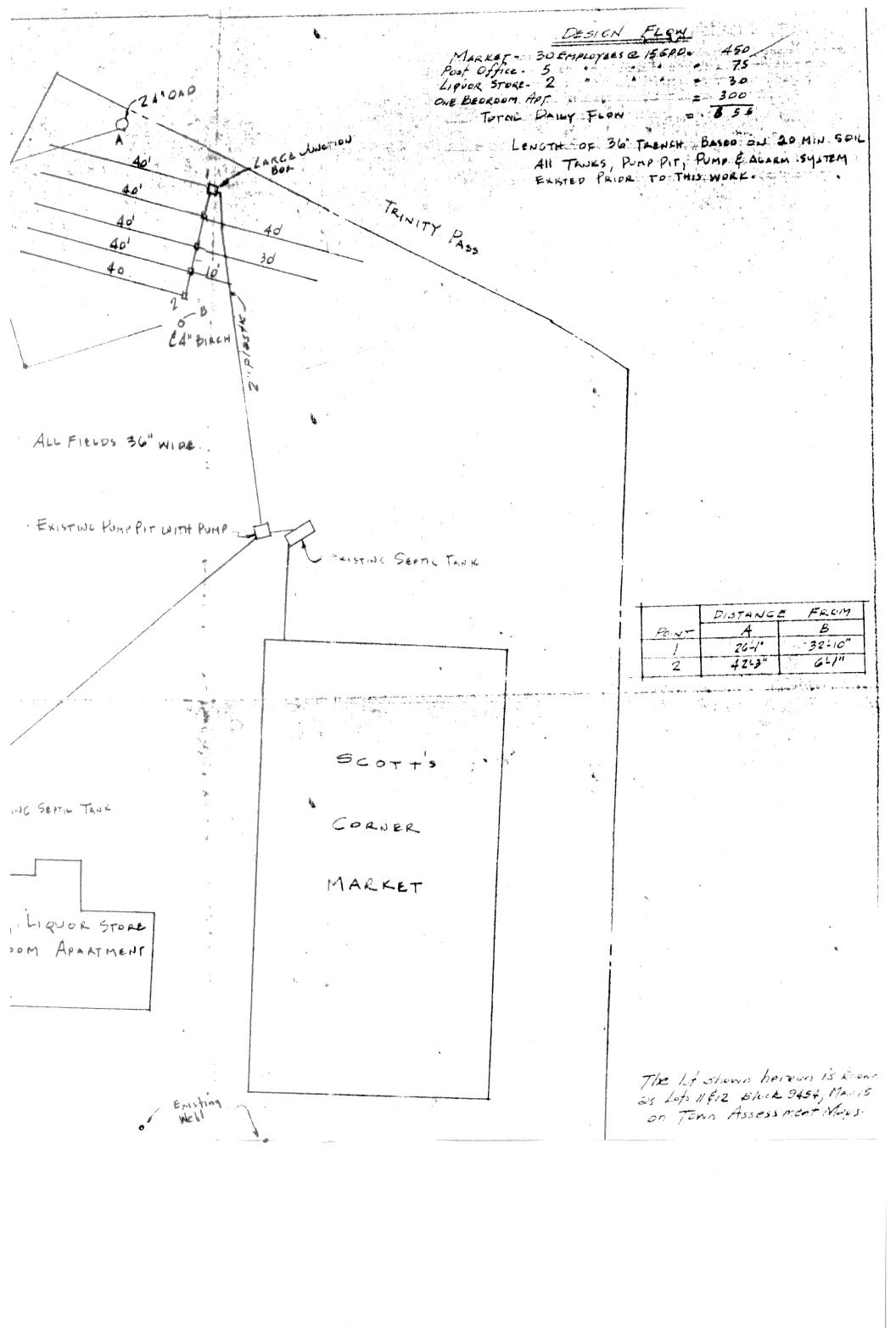
STAMFORD CONN.

SCALE I'EZO' AUG. 1959

Pos o 504 LIN. A. OF FROSHED STONE DIST, BOX 15042 13/ HITOUERFLOW M.H. TO GRADE 83 SEPTIC TANK 48

9454-12 and 9454-11 69-71 WESTCHESTER AVE







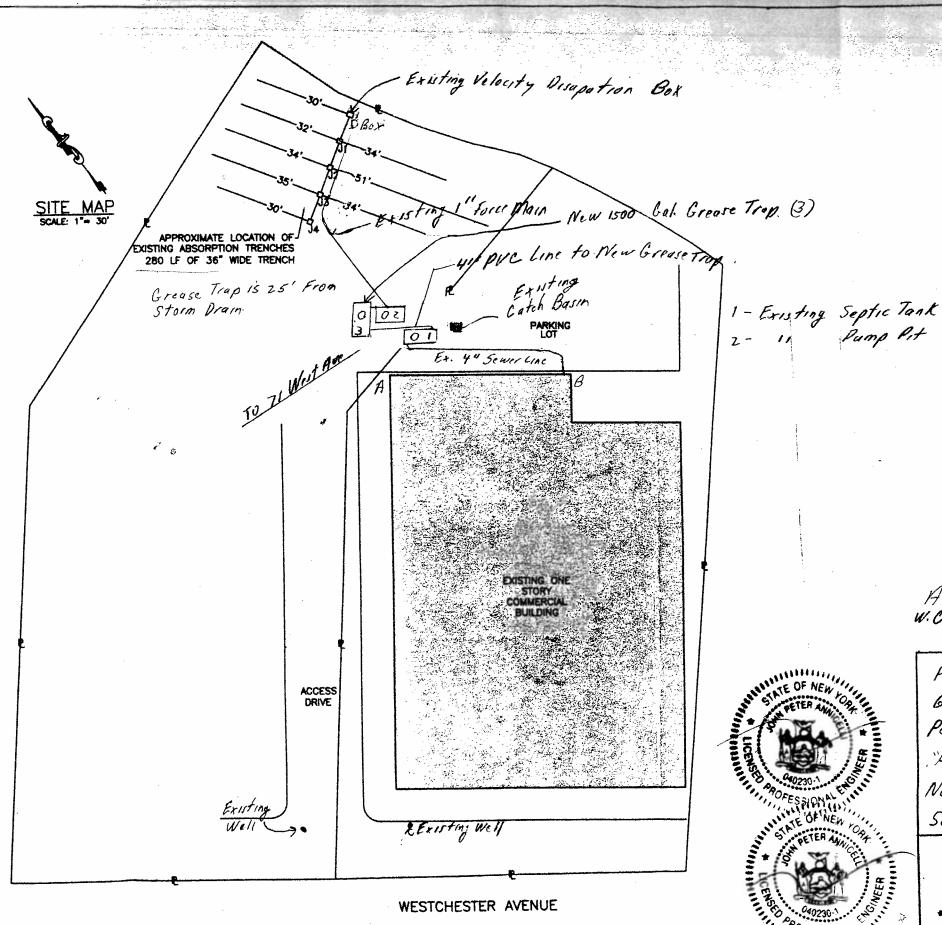
Westchester County Department of Health Bureau of Environmental Quality

Rev. 5/13/09

CERTIFICATE OF CONSTRUCTION COMPLIANCE APPLICATION

WCDH File #: PR 2012-12	Municipality:	Poun	d Ridge.		
☐ Residential ☐ Commercial	Watershed Ba	ısin Name: _∠	Migney	River	Acquaria
NYCDEP Watershed: Y □ N □ Joint Re	eview NYCE	EP Log # _			Delegated Review
Property Information:			,		
Property Name Pound Ridge	Plana L	16C			
Property Address 69 Westhers	AVE	Paul	dRidor	MI. Zin	Code (C) (T)
Diuck / 7 1	7 101	D C 1 ~4	/ -		
really Subulvision:	(Omm	1/10/	Buch	1	
	IJU LLC	JWner First Na	ame.		
St. #: 114 St. Address: 6/cn/a	le Rd s	Carrelele	State: My	Zip Code:	10583
Owner Phone #: 917 - 447 . 98		•	,,,,	- •	
Building Type: Commercial #	of Bedrooms:	Date	Construction A	porquel les	W To a second
			, construction A	pprovar issu	ed 2000 -
On-site Wastewater Treatment System (C	JW IS) Informat	ion:			
Design Flow: 450 Slope of OWTS Area:	~ 8ha	Soil Per	colation Rate:		min./in
Absorption Trench(es): Length:	Lin Ft	Trench Mic	diik Size:	Ga	illons (Gal.)
Absorption Pit(s): # Pits Diam	neter:	Ft. Denth	za rt.	Area:	Sq. Ft.
Other (circle or specify): Tri-Galleys	4X4 Galleys	Flow Diff	fucors	_ 1 t. Area	Sq. Ft.
# Trenches Length Lin	n.Ft. Trench Wid	riow Dili th:	IUSEIS Nar	ne:	0 5 0
mer resquironnonio.					
Pump System: Pump Chamber: Size:	Gal. D	ose	Gal. Overfl	ow Tank: Si	Ze: Gal
Pariam Brain. Deptin Ft. Wiath:	Ft. R.O	.B. Sand and	Gravel Fill Sec	tion: Dep	oth: Ft.
Separate Sewage Contractor (SSC): Name:	K MIDEL	ro lun	Ited WCDH	SSC Licens	ie# <u>00109</u>
Water Supply System Information:					
Private Water Supply	lic Water Supply	Name:			
Well Driller Name:			NVSDEC	Doc #	
Address:			NTODEC	rteg #	
Other Requirements/Conditions: /500 I certify that the system(s) as listed serving the about of which are attached), in accordance with the ster	Gal ar	ease The	Priorie: ()	
), (1)	OF NEW	<i>y</i> .		
Certify that the system(s) as the	V A CONTRACT LAND	PETER AND	7:		
I certify that the system(s) as listed serving the application of which are attached), in accordance with the star County Department of Health.	ove premises viele odards; rules and	constructed a	is spown on the p	lans of the co	impleted work (copies
County Department of Health. Date: /// Signed: Any person occupying premises served by the above			# :	phioval issue	d by the vvestchester
Any possess		PE/RA	Seal 4023	0	Wilderson .
correction of any unsanitary conditions	An pharetti(2) stiatt	promptry take	such action as ma	av be necessa	ary to secure the
void when a public water supply becomes available	The state of the s	and approve	a or me bilagie M	ater Supply sh	lall become null and
the supervision of a licensed Professional Engineer	fication or change	is necessary,	CONTRACTOR OF CIT	ange when. I	n ine ludament of
to function satisfactorily and are not likely to create	an unsanitary cond	nitect. With pridition.	oper maintenance	the systems	can be expected
Date: 12/3/12 Approv	ved By:	\sim			

Joshua Lipsman, M.D., J.D., M.P.H., Commissioner, Westchester County Department of Health



1) Flow Date - Pound Ridge Plana - 69 Wistchester Are - 450 godinel. Pizzu Rest. 105 ypd Liquor Store - 71 Westchester Ave - 405 gpd Total Flow to Infiltrators 85 Sypas

2/ New Grease Trop 1500gal - 25' From
Existing Catch Basin - Grease Trap
shall Be GT 5 × 10 - 15 (Precast)
1500 Gallons · Heavy Duty
by Rotondo 4 Sons Inc.

3) Water Shed - Mianus River Acquarian Water Ca.

4/Owner-Pound Ridge Playa LCC
114 Clendule Rd
Scarsdale MM 105-87

5) Grease Trap in Pizzeria To Be
Cleaned a least once per 3 days

As Built - 11/17/12. W.C.H.D. Comments 11/14/12; 11/15/12

Pound Ridge Plaga

69 West-chriter Ave.

Pound Ridge, MM. 10576

"As Built" 1500gal Great Trap - PR2012-12

Nov. 12, 2012. 15-9452-12

Scale 1"=30"

John P. Annicelli, P.E. Troy La. Bedford, N. Y. 10506

Map Shown Based on a Mapby Keane, Coppelman Gregory Dated 5116/11 NOTE

All Water Usuage Meter Readings 10

Both 69 4 71 Westchester Ave Buildings 10

Be Submitted to the Master Count, Health Dyst

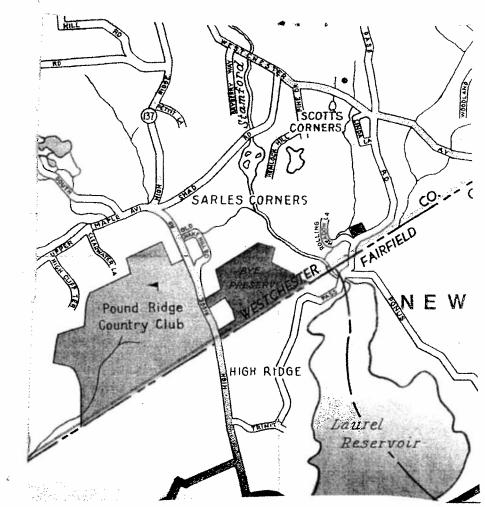
Envir. Quality

Mt Kisco N.Y.

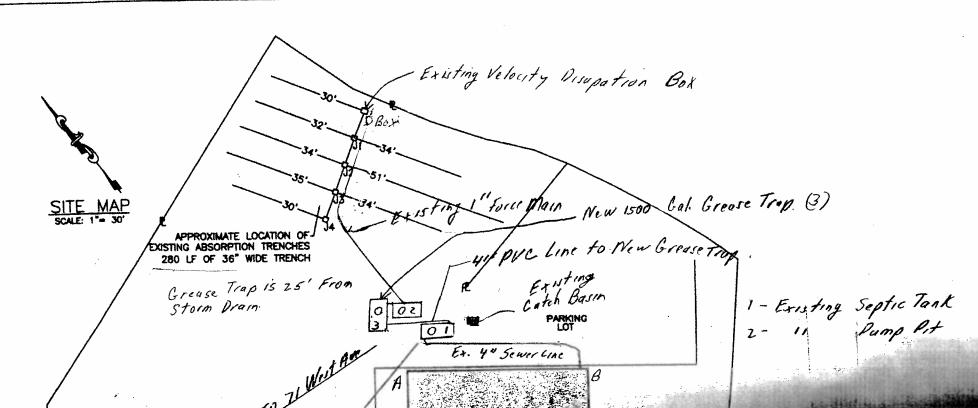
Attn. F Beck Jr.

		0
Item	A	B
1500 Gal Precast	23'	67'
Grease Trop		

. 1



Vicinity Map N.TS



1) Flow Date -Pound Ridge Plaza - 69 Wistchester Ade - 450 applinch. Pizza Rest. 105 ypd Liquor Store - 71 Westehester Ave - 405 gpd Total Flow to Infiltrators 85 Sypal

2/ New Grease Trop 1500gal - 25' From
Existing Catch Basin - Grease Trap
shall be GT 5×10-15 (Precast)
1500 Gallons - Hoavy Duty
by Rotondo 4 Sons Inc.

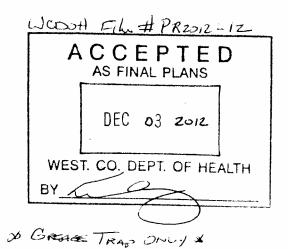
3) Water Shed - Mignus River

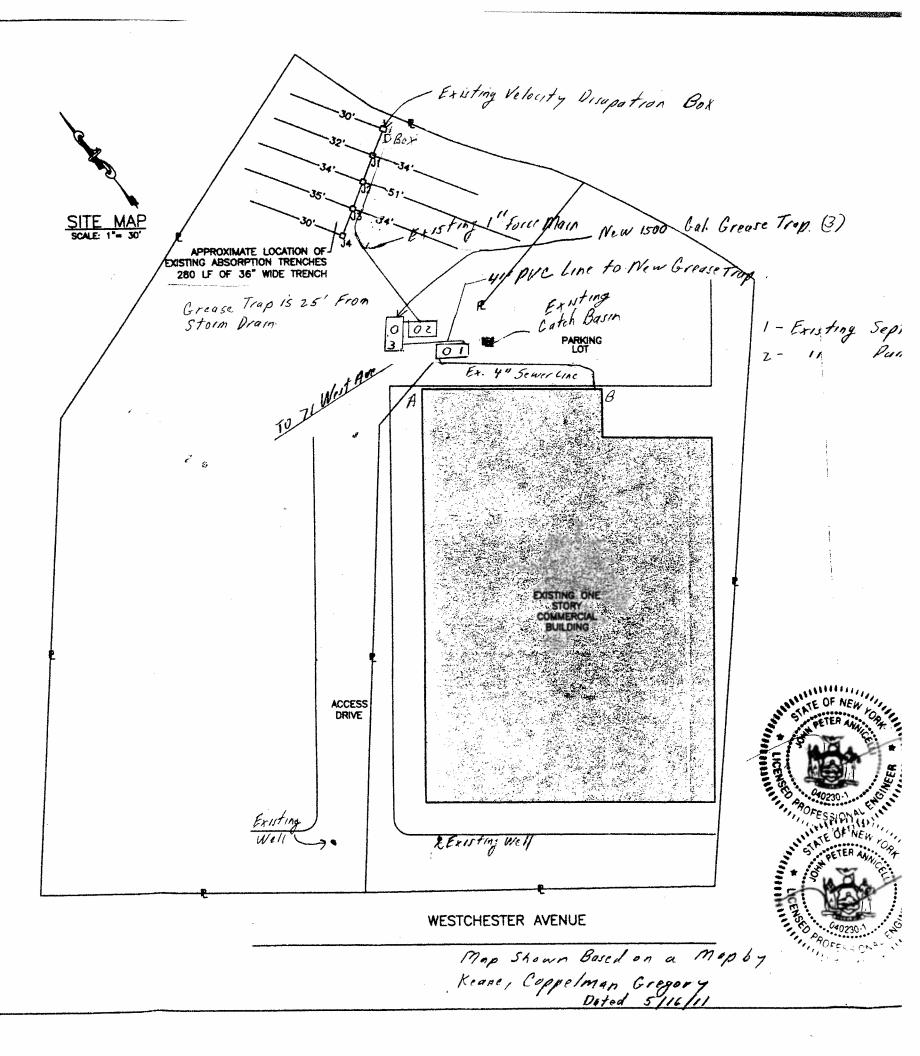
The OWTS has been constructed in accordance with the Rules and Regulations for the Design and Construction of Residential Subsurface Sewage Treatment Systems and Drilled wells in Westchester County, NY.

7 . 1

The design professional has supervised the construction of the OWTS and certifies to its installation is in accordance with the approved plans.

ALTERATION OF THIS DRAWING except by a licensed P.E. or Architect or licensed Land Surveyor is illegal. Any alteration by a P.E., Architect or Surveyor must be indicated and bear his seal, signature and date of alteration.





9454-6 85 WESTCHESTER AVE



Joshua Lipsman, M.D., J.D., M.P.H., Commissioner, Westchester County Department of Health

Westchester County Department of Health Bureau of Environmental Quality

CERTIFICATE OF CONSTRUCTION COMPLIANCE APPLICATION – OWTS REMEDIATION

			- CONCEDIA NO
WCDH File #: PR 2009-06R	Municipality:	Pound Ridge	
☐ Residential ☐ Commercial	Watershed Basir	Name: Minauc A	quer (Arquoirien Wat
NYCDEP Watershed: Y \(\text{N} \) Join	nt Review D NYCDF	Ploa#	The Malitian Math
rroperty information:			
Property Name Westchester H Property Address 85 Westch TMD: Section 15 Block 941 4	1 ve 1 11-	W. H. C.C. A	
Property Address 85 West h	exter Ave i	Day 101 M	stouront
TMD: Section _ / Block 941 4	Int & Bola	oura Kidge, Pin.	Zip Code 10576
TMD: Section 15 Block 941 4 Realty Subdivision: Fristing K Owner Last Name: West her feet	estaurant Ro	Lot Area_	Acres
Owner Last Name: Westchester St. #: 100 St Address: Co. Re-	Aug Da	iding.	
St. #: 100 St. Address: <u>So. Ba</u> Owner Phone #: (9/4) 760-	Start Dil	vner First Name:	
Owner Phone #: (9/4) 760-	-812	//7 //// State:	Zip Code: 105 %
Building Type: <u>Restaurant</u> On-site Wastewater Treatment 2	# of Bedrooms:	Date Construction	Approval to
on site wastewater freatment Systen	1 (OWTS) Information:		
Design Soil Percolation Rate:	min./in. Slope	of OWTS Area: 12	0/ 15-11
Components:		or overo Alea.	% Design Flow: <u>695</u> gpd
Components.	Existing New		
Septic Tank:	1200	. Gal.	
Pump Chamber: Dose:	T T N	. Gai.	
Overflow Tank:	<u>550</u> 1250	Gal.	
Absorption Trench(es):		Gal	
•		LF	Ft. Width
Gravelless Trench(es): Infiltration (Quick 4 High Absorption Pit(s): # of pits	<u>Carried</u> 224	LF	
		Ft Dia.	Sq. Ft.
Galleys:		LF	Sq. Ft.
Flow Diffusers:		LF	Sq. Ft.
75A Alternative:		7./	Botes
Junction/Distribution Box(es):	8		Box Size
Curtain Drain: —		Ft Depth	Ft. Width
ROB Sand/Gravel Fill:		Ft. Depth	Sq. Ft Area
Other:		,	Oq. Pt Alea
Erosion Control (EC) Completed			
Separate Sewage Contractor (SSC): Name: Other Requirements/Conditions: 3 Rof R	R. Riberra) Unite	Sentic Systems Inc	License # 129
Other Requirements/Conditions: 3 Rof B. * Dairy Witter + Strang F. 11 Tank w.	Fill; Pung Tin	er (Run 1/1) hor	1 0.4 41
I certify that the system(s) as listed serving the ab of which are attached), in accordance with the rule Department of Health.	ove premises were constructed and regulations, plans fi	ted as shown on the plans led and the approval issued i	of the completed work (copies by the Westchester County
Date: 11/2//09 Signed:	2 (4	~5 / I	ense# 40230
Any person occupying premises served by the abo correction of any unsanitary conditions resulting for null and void as soon as a public sanitary sewer be void when a public water supply becomes available Commissioner of Health, such revocation, modificat supervision of a licensed Professional Engineer or I function satisfactorily and are not likely to create an	Such approvals are sub- tion or change is necessar Registered Architect. With unsanitary condition.	y take such action as may be the on-site wastewater trea ipproval of the private water s ject to modification or change	supply shall become null and when, in the judgment of the
Date: 12/17/29 Approved By:			

V/ Clock Times to pump installed in No Star Electric Room Calibrated & Pumps cock 12 hours 320 gal / pumping Centique Pump Contal

3) High Water Alarm in overflow Tank set to 600

gallons. Aliem light & audible in Worth Star Ristourant

and Overflow Tunk to be pumped when Alarm active tal

Sonix Corp Level Sensor UL 1000 & Could High Water Alarm 94 Owner of Property

F. Accoccella

West hister Properties L.P

North Star Restourant

8 5 Westchester Ave. Pound Ridge, N.4. 10576 Manus River Drainege Basio (Acquario, Water Ca) JOHN ANNICELL', P.E. TROY LANE 914-273-36 82 BEDFORD, NEW YORK, 10506 LITEST SCALE; REVISION: NORTH STAR RESTAURANT 85 WESTCHESTER AVENUE SHOWN POUNDRIDGE (T) Sect. 15, BIK. 9454; Lat 6 SHEET NO. DATED: "As Built" 11/21/09 REMEDIAL SSTS PLAN MECKED 1 OF | SSTS; OWTS-SEPARATE SEWAGE TREATMENT SYSTEM 12/10 W.C. HD Commats 12/02

ALTERATION OF THIS DRAWING except by a licensed P.E. or Architect or licensed Land Surveyor is illegal. Any alteration by a P.E., Architect or Surveyor must be indicated and bear his seal, signature and date of alteration.

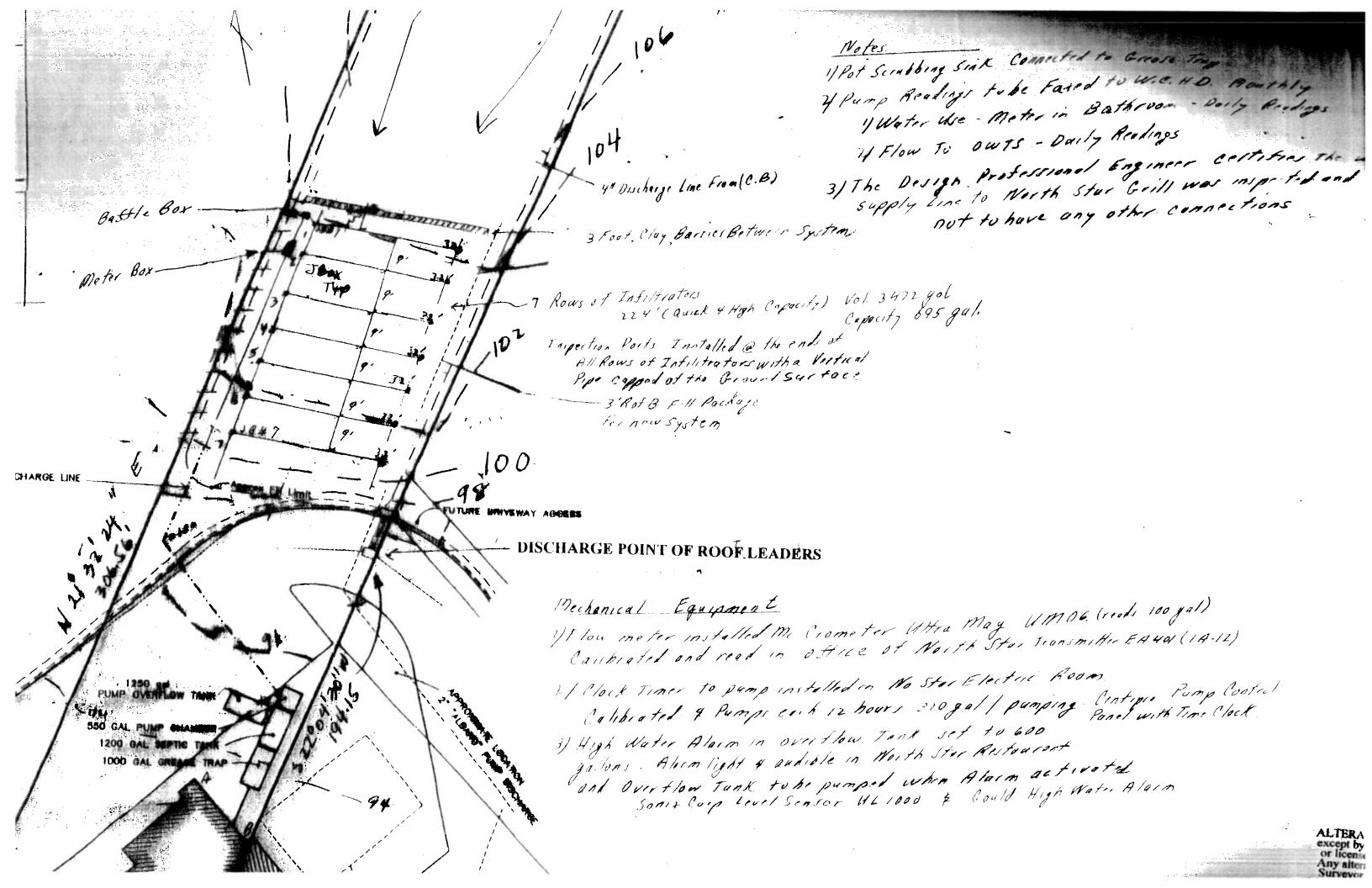
A C C E P T E D

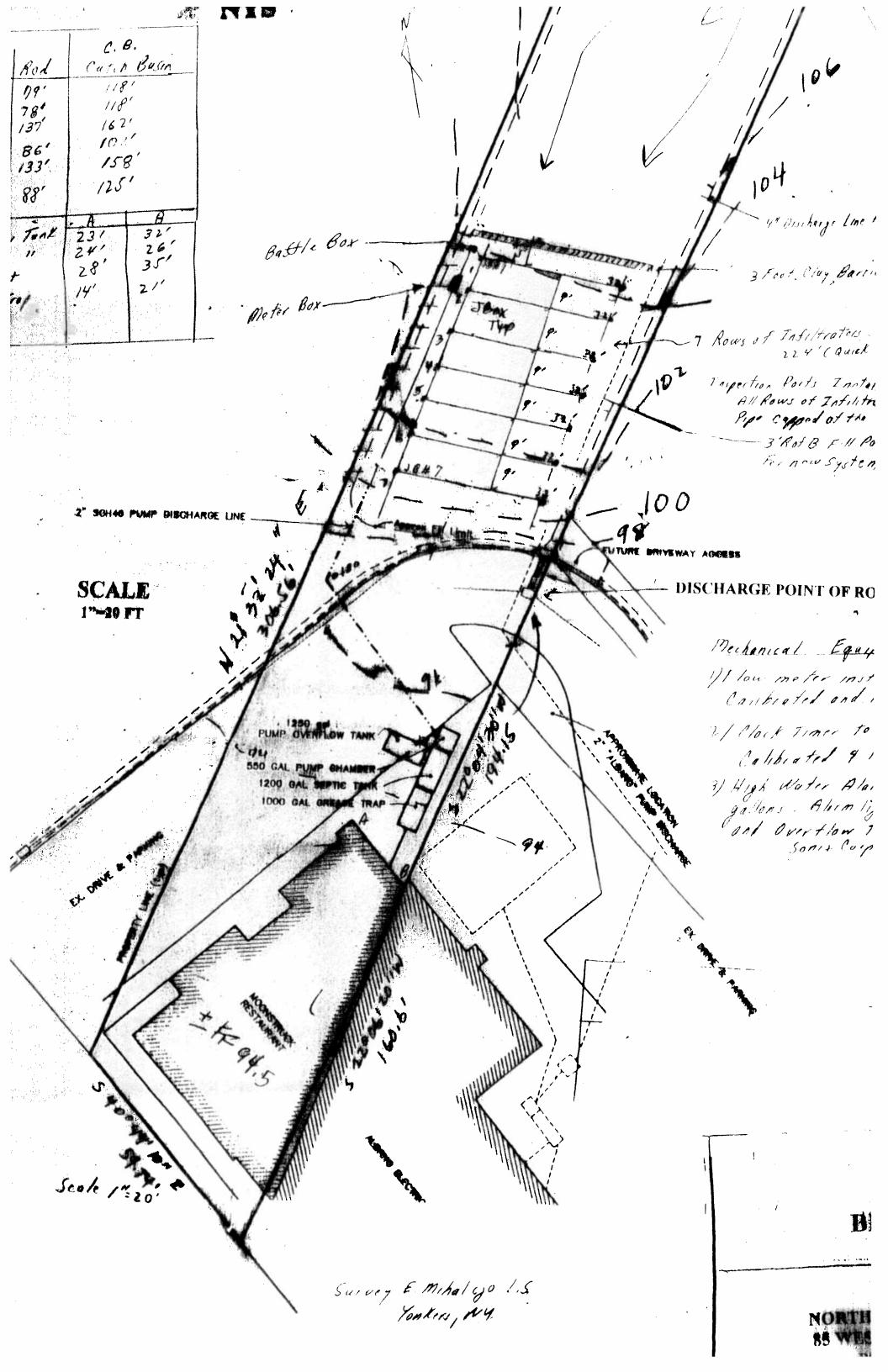
AS FINAL PLANS

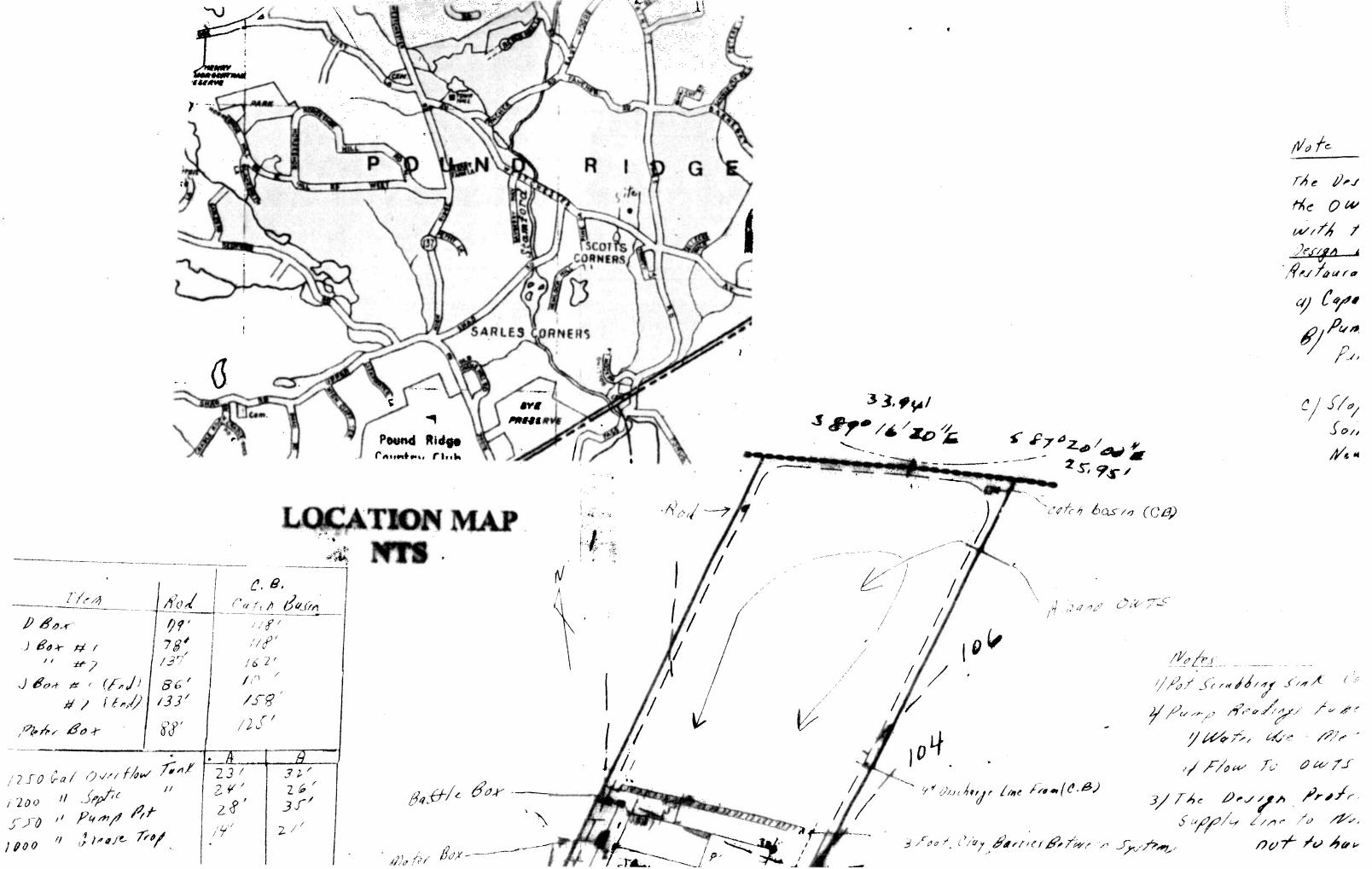
DEC 17 (00)

WEST. CG. DEFT. OF HEALTH

MAX DAILY FUN LASAPP







Item

D Box

J BOX #1

Poter Box

11 #7

The Des the ow with t a) Capa

Son

33.941 3890/6/20/E 5 87020 00 % cotch basin (CB) Discharge Line From (C.B) Play Barries Between System

Note

The Design Professional has superised the construction of the OWTS and certifies to its installation and it is in accordance with the approved plans

Restaurant capacity 46 scots @ 35 gol. | sout = 1610 gol/day

a) Capacity of intiltrators 695 gal /Day

By Pump Dose Verified in field 221/2" Drow = 302 Gal/Dase Pump set to pump every 12 hrs therefore max. Dose to Fields 640 gpd.

c/Slope of OWTS - 1290 Soil Percolation Rute 10 min /in. New Infiltrators 224 Volume 3472 Gol

1/Pot Scrubbing Sink Connected to Grease Tray of Pump Realizer to be Fased to W.C. H.D. Monthly 1) Water We - Meter in Bathroom - Doily Rediges of Flow to owis - Daily Readings

3/ The Design Professional Engineer Cettifies the water Supply line to North Star Grill was inspected and determined not to have any other connections

9454-7 83 WESTCHESTER AVE - ALBANOS

P.S.D. Town of Pound Ridge Date: Permit 8/ 1/51 Approval 4-25-52
Location: Westchester Avenue Section Block: Lot:
Owner: Alfred Albano, Hickory Lane, Bedford, New York Builder: Herman Coutermash, R.F.D. #5, Ridgefield, Conn.
House: three stores Soil test made: 3 minutes Tank capacity: 810 gallons Material: Masonry
Absorption: 87 linear ft. of 24 in. absorp. trench Sketch-Bock: A5-422

Town of Pound Ridge Alfred Albano, Westchester Avenue 8/1/51 - Herman Coutermash - 800 gal. 80' x 24" 6.8 x 40x 40 = 810gal

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. . .

WESTCHESTER COUNTY DEPARTMENT OF HEALTH

William A. Holla, M. D., Commissioner White Plains, N. Y.

Secured August 1, 19

Sewers Pomdrege

PERMIT FOR SEWERAGE SYSTEM

APPROVAL is hereby given pursuant to Article VII of the Sanitary Code of the Westchester County Health District to

to construct or provide a sewage disposal

system consisting of

an 800 gallon masonry septic tank and 80 linear feet of 24 inches wide absorption trench

to serve

three commercial stores owned by Alfred Albano, Westchester Avenue, Found Ridge, New York.

for an occupancy of

persons, provided that

4/25/52

- No portion of the system shall be backfilled or covered until inspected.
 Inspections are made during regular working hours only. Twenty-four hours' notice is required.
- II. The system shall not be used until it has been constructed in an approved manner, inspected and backfilled, and the written final approval thereof shall have been obtained from the Department of Health. (See Item VIII).
- III. Additional or more adequate facilities shall be provided whenever it is determined by the Commissioner of Health that such facilities are necessary, for which an additional permit shall be obtained.
- IV. This system shall be maintained and operated in complete conformity with rules and regulations for the protection of public water supplies, all applicable laws, local ordinances, and the provisions of the Sanitary Code, existing or hereafter enacted.
- V. When sludge and scum shall so accumulate in any tank as to occupy a depth at any point of more than one quarter of the liquid depth of the tank, they shall be removed and disposed of in accordance with the requirements of the Sanitary Code, and so as to create no nuisance.
- VI. A connection to a public sanitary sewer shall be made whenever such sewer shall become available.
- VII. This permit remains the property of the Department of Health and is revocable at any time or subject to modification or change whenever the Commissioner of Health shall deem necessary.
- VIII. It shall be the responsibility of the person obtaining this permit to deliver a true copy thereof together with a copy of the final approval to the owner of the premises served by this system before this system is placed in use.

HOW it!

Commissioner of Health

WESTCHESTER COUNTY DEPARTMENT OF HEALTH William A. Holla, M. D., Commissioner

7-31-51

/I\	VISION OF SANITATION	Application Post To
R.	M. McLaughlin, P. E., Director H. M. Gray, P.E., A. R. Secor	Application Rec d
	R. H. Cummings. P. E. R. W. Germanath	Final Approval
	Sahitary Engineers	\$7.0
	Sahitary Engineers APPLICATION FOR RESIDENTIAL SE	WAGE DISPOSAL PERMIT
	(<u>Please_type_or_print</u>)(See_Rul	les & Reg.Form S.D.22)
To	the Commissioner of Health:	
	Application is hereby made for a manual	construct a sewage dispasal
sys		
	(Number, type, and use of buildi	ng to be served.)
1.	Owner ALFRED ALBANO Note: (Owner must receive permit and ap	proval. Check here for extra
2.	Property at WEST CHESTER AVE. POUND RIG	GE, NEW YORK
3.	Tax Map Location: SectionBlockLot	ge, Town, City)
1.	Construction	Supdivision
40	Construction: New, Replacement; Proposed Futu	re Building
5.	Lot size. 100 × 150. No. of rooms Bedrooms Extra lavatories. Special Fixtures.	Dethorm 3 (RURTORIES
		axi um ruture Uccupanev .
6.	Source of water supply. ARTESIAN WELL Watershed on which system is located	
	Distance to nearest watercourseOwner's	wells Adjacent wells & Solution
7.	Daily Sewage Flow: No. of persons	
8.	Daily Sewage Flow: No. of persons	x /5 gais=
O &	Settling treatment: Septic tank; liquid capaci	ty below flow line 100. 98cs
	Materialinside dimensions: Length. Minimum liquid capcity - 500 gallons; 200	college a series depth.
a	Soil obnormation 1 1 9	garrone per oedroom.
/ \$	Soil absorption test minutes per inch drop (MUST BE MADE BY APPLICANT AT SITE)	(from table)
10.	Absorption area. 2.0.0	
	o	M Table bottom once
ll.	AUSCIPCION treatment: Trenches 1 inches in	do 199 Tamaca Carl
	araver. Cu. yus., to depth of . S. inches h	along hattam of miles
	Dodonitus Pros. number Ontside dimension	a double builded Bit I i
	wall area below flow linematerialbu Absorption area: trenchesleaching pits	
	or entenes, reaching pits	totalsq. ft.
	Signature Lermon & outermand. Title.	Constay
	DV Owner or nerson progenting amount	m + m + 2 + 4 + m + m + 2 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1
	Mail permit to Redge field Com	1. R. F. D. 35
	SKETCH RECUIRED showing all features of proper disposal system. Failure to secure permit best	former committee and it is the
	cion of the county Danatary Code and is a miss	demonan
	INSPECTION OF COMPLETED SYSTEM BEFORE BACKETT	TMC TO DEVIE



ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

Municipalit	y:						
Property Ma	ailing Addres	s (No. & Str	eet): 8 3	WESTCH	ESTE	Z ALE	
Town/ Villa	ige: Pou	א מא	LOGE	St	ate:	NY	7in: 1057/
Owner:	ALBA.	NO G	EALTY				Zip: 10576
Owner Mail	ling Address (No. & Stree	t) (if different):		*		
rown/ villa	ige:				State:		Zip:
Property Us	e: [] Singl	le Family []	Multi-Family [] I	ndustrial (Vom	mercial		La production and the second s
OWTS Re	mediation						#:
wastes or of	fensive mater	ial on to the	replacement, or e. e., resulting in, or surface of the groas defined above	unat may result	in, the dis	vater treatment scharge of sewa	system components to correct tage or domestic wastes or trade course or water body.
OWTS Re	pair 🛛	Complete	the following	information			
<i>Repair</i> shall	mean the rep	air, mainten	ance, and replace	ment in kind and	l in situ; (of broken, dama	nged, or worn onsite wastewater
Number of I	Bedrooms	N	umber of Bathroc	oms:		Water Supply	Type: Public 🔲 Well 🗖
r	Ple	ase note be	elow only comp	onents that ha	ive been	repaired or	replaced.
Repaired	Replaced	Septic Tan Junction/D Sewage Pu Absorption Seepage Pi Galley(s) Gravelless 75-A Alten Other Adva): s): s) osing Equipment 320 ft. X 1	rench W	OF WO	V BUILDING AND LOCATION ORK PERFORMED ON BACK IIS FORM
ľ.	I Entire	System Re	placed				
Contractor's	Name (print)	UNITER	SEPTIC & E	XCAVATION	Date Re	pair/Remediation	on Completed: 6 - 18 - 14
Contractor's Signature: License No.: 109							
Upon comple	etion please re	emit to:		unty Department Moore Ave., 1st Kisso, NV 106	loor	n- BEQ	

Mt. Kisco, NY 10549

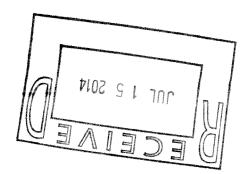
Attn: Patricia Tornello-Adams

Repair File #:REP (WCDH Staff only)

J8# 40	
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1// 44	
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L REPLACED //	
EXISTING INFILTRATIONS	
ETISTING THE	
JITH 320 L.F. OF	
WIDE INFILTRATIONS	
WIDE INFILTRATORS	

2

	ROD #	POD #2
J-B0× #1	13/2	631/2
END #1	39 1/2	23
BEGIN #4	35	76
End # 4	49	42
J-B0x = 2	42'2	81/2
E~D #5	48/2	49
BEGIN +8	65	99
Erb #8	64	7/



SEPTIC REPAIRS

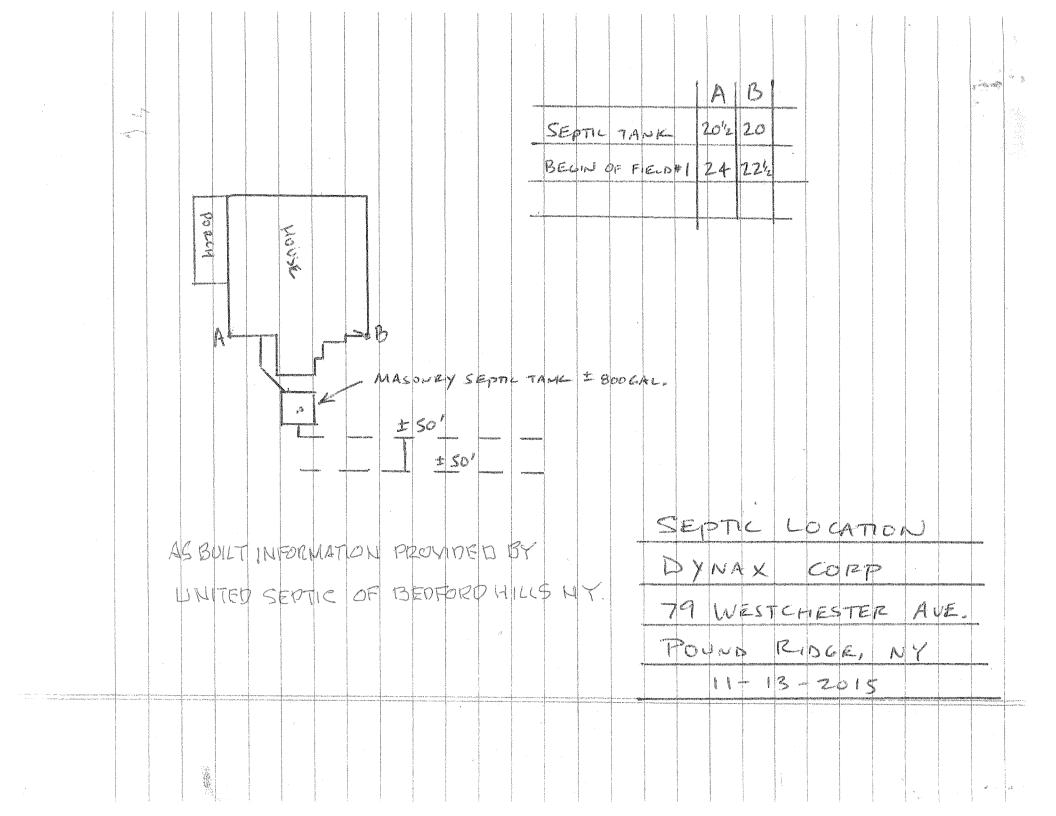
ALBANO APPLIANCE

83 WESTCHESTER AVE.

POUND PHOSE, NY

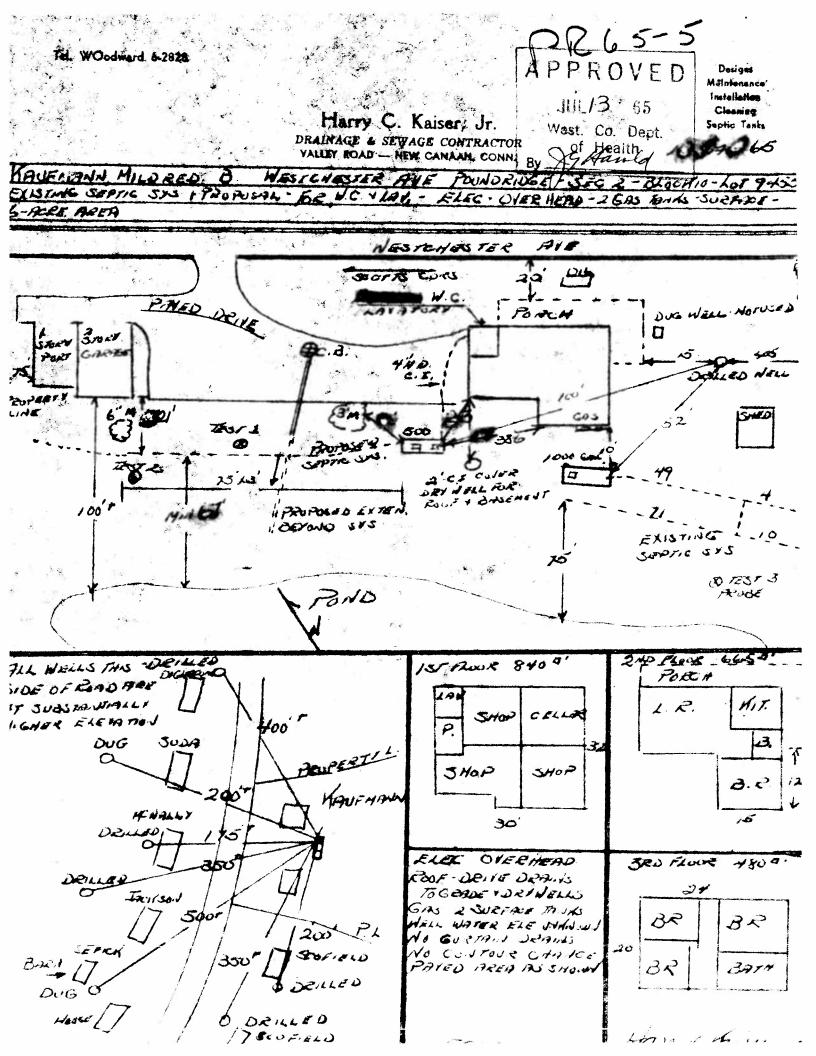
6-18-14

9454-8 79 WESTCHESTER AVE



9455-10 22 WESTCHESTER AVE

Westchester County Department of Health



COUNTY OF WESTCHESTER DEPARTMENT OF HEALTH - Division of Environmental Sanitation
DESIGN DATA SHEET - SEPARATE SEWERAGE SYSTEM FILE NO. PR65=5 1/4 MI EMST SCOTTS CORS
Owner HAUFMANN, MILDRED B. Sec. 2 Block 16 Lot 9450
Present Mail Address WESTCHESTER AVE POUNDRIDGE N. Y.
Watershed STAMERD CONN. Lot Area 6 A S.D. Usable Area 5000 T
Water Supply: Drilled X Driven Dug Well : Depth ? Public
No. of Rooms Bedrooms 4 Future: Yes No X Other
Septic Tank Capacity (From Table, Item 5.1) 500 Gals. Masonry X Metal
Soil Rate UsedMin/l" Drop: Soil Peyc. Test Data Test Pit Data
Soil Rate ApprovedSq.Ft./Gal. Checked ByDate
Absorption Area Provided ByL.F. x 24"36" width trench
TRIPLICATE PLANS AND PROFILES OF SEWERAGE SYSTEM REQUIRED DRAWN TO SCALE OF NOT MORITHAN 1" TO 20' HORIZONTAL AND 1" to 10' VERTICAL FLOOR PLAN OF BUILDING (REQUIRED)
Check off items required to be shown on plans 1. Identification (Name-Title) 2. Scale, north point, date 3. SEWAGE DISPOSAL SYSTEM: Dimensions; Sewer Line Septic Tank; Distr.Box Trenches; Spacing Other. DISTANCES (Nearest Foot) TO: 4. Street lines, name street Diriveways, paved areas Natercourses, ponds, etc. Street; Area; Roof; Footing; Cellar; Other 10. Drilled wells within 500 ft. 11. Dug wells or springs within 500 ft. 12. Curtain Drains to discharge pt. Nater, oil, gas, electric services and tanks (underground) Nater, over 6" diameter, when grown 15. Contours, before & after grading in or above sewage disposal area.
DATA SUBMITTED BY (Sign) HOME CONTRACTOR CONTRACTOR
OWNER / BUILDER / CONTRACTOR CONTRACTOR
IF CORPORATION, GIVE NAME AND TUPLE (Form SD28 Required) MAIL ADDRESS 878 Vally Town TELEPHONE NUMBER 966 2828 S.D.7.1 - 1962 year Course, Communication of the Spanning State

- Location M. B. MANFMANN - WESTCHESTER AVE BOND RIDGE

WESTCHESTER COUNTY DEPARTMENT OF HEALTH

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

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Column		! 7 1					· · 6	1Col 3	± Col 6
<u> </u>	t	1		Elapsed			Water		1
Hole	† Run	' Clock	Time	' Time	Depth		r ! Level	1 So	il Rate
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- ス	· ,)	PROBE	10 To	27"	HARL	Pache	O CH	ay .	1
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	1 5	1	1	!	1 	Ŧ			1

Notes:

2) Depth measurements to be made from top of hole.

Tests made by	, Karry CH	usey for	Date 14 0065
•	(Signature)		

5-46-A (9-18-62) Hole #/ Setwated - Water obsorbed 35 4/N.

¹⁾ Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Division of Environmental Sanitation

PR65-5

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

DEPTH	HOLE NO	HOLE NO. 2 PROBED TO 4-6"	HOLE NO. 3	HOLE NO.
G. L.	200	300	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6 _{II}	TOP SOIL			
12"	<u></u>		comin metabolistististististististististististististi	
18"	LOAM			
24"	LOAM TO CLAYMIN			
30°	Nonlinition elikolokkonomikkonintipatkonintipatkonintivanessiksi kinensiksiksiksiksiksiksiksiksiksiksiksiksiks	*********************************	HARD BENED CLAY	
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48"		GROUND WATER		
54"	And Anticonnection of the second contraction of the second contraction of the second contraction of the second	GROUND WATER		nin in spiriture i yar akishi manazi Mandarda i Ali Ali Ali Ali Ali Ali Ali Ali Ali A
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78"		en region and his last sering with highly good finish from him monopolitical princip reference and or		
84 n				
INDIGATI	E LEVEL AT WHICH GROU	IND WATER IS ENCOUN	TERED	
	E LEVEL TO WHICH WATE		Λ	RED
TESTS M	ADE BY MULTIPLE	DATE	14 ten 65	

S.D. 27.6 8.14.63

9455-21 34 WESTCHESTER AVE

and Francisco	
Separate Sewerage SystemPrivate Water Supply	(B)
CERTIFICATE OF CONSTRUCTION COMPLIANCE WICH File No. 173-30	No
Located at Maria parties Ask Section 4 PA Block 941	1-/
Owner Latombe of & Mustro Muses Lot 2 1/20 Job	
Separate Sewerage System built by Address Address	4
Consisting of Gal. Masonry, Metal Septic Tank lineal feet/X width tr	rench
Other requirements	
Water Supply:Public Supply From	
Private Supply Drilled ByAddress	
Build g Type	Transfer to the same to
Erosion Control Completed Waived	
Other Requirements	·
I certify that the system(s) as listed serving the above premises were constructed essentially as shown on the plans of the completed work (copies of which are attached), and in account the standards, rules and regulations, plans filed, and the permit issued by the Westchester County Department of Health.	ordance
Date 4/20/7/ Certified By	
Any person occupying premises served by the above system(s) shall promptly take such action as may be necessary to secure the correction of any unsanitary conditions resulting such usage. Approval of the separate sewerage system shall become null and void as soon as a public sanitary sewer becomes available and the approval of the private water supplied become, null and void when a public water supply becomes available. Such approvals are subject to modification or change when, in the judgment of the Commissioner of Healt revocation, modification or change is necessary.	
With proper maintenance these systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.	
Date May 1, 1775 William A. Brumfield, Jr., M. D., Commissioner By Percent L. Leone Son. Eng.	4
SD 47.64 Westchester County Department of Health	
	Š.
Separate Sewerage System Private Water Supply Bound Audy	*
CONSTRUCTION PERMIT	
WCDH File No.	<i>Ś(</i>)
Located at Westernamer Ave Section 9A Block 9455	***************************************
SubdivisionLot	***************************************
Owner Columbia & Mastorburg Address Port Office Pound Ridge My Lot Area	Mentoreaconomic
Building Type	Feet
Separate Sewerage System to consist of	ench
To be constructed by Address New Rochelle And	Distance
Water Supply: Public Supply from	Printed de la company de la co
Private Supply to be drilled by All 1881 Address A AMP 41/11	Appropriate Addition and Assessment
Other Requirements 180 480 01 18 addition & Noth Art Burn proportion, Water	**************************************
represent that I am wholly and completely responsible for the design and location of the proposed system(s); 1) that the separate sewage disposal system above described will tructed as shown on the approved plan or approved amendment thereto and in accordance with the standards, rules and regulations of the Westchester County Department of Health at on completion thereof a "Certificate of Construction Compliance" satisfactory to the Commissioner of Health will be submitted to the Department, and a written guarantee urnished the owner, his successors, heirs or assigns by the builder, that said builder will place in good operating condition any part of said sewage disposal system during the pewell described above will be located as shown on the approved plan and that said well will be installed in accordance with the standards, rules and regulations of the Westchester Department of Health.	Ith, and will be eriod of
Date 3/28/73	
APPROVED FOR CONSTRUCTION: This approval expires one year from the date issued unless construction of the building has been undertaken and is revocable for cause or namended or modified when considered necessary by the Commissioner of Health. Any change or alteration of construction requires a new permit. Approved for disposal of domestic ary sewage, and/or private water supply only.	nay be c sani-
Date Jack J. Goldman, M. D., Commissioner By Www.tll. Flore, Son &	2
Westchester County Department of Health	Size

CCUNTY OF WESTCHESTER DEPARTMENT OF HEALTH - Division of Environmental Sanitation
DESIGN DATA SHLET - SEFARATE STILL AGE SYSTEM FILE NO.
E. Columbo & Owner J. Martingary Address Westchester Ave
Located At (Street) Wester Porner Sec. Sec. 94 Block 9417 Lot 24 (Indicate nearest cross street)
Municipality Pound Lidge(T) Watershed
SCIL PLRCCIATION TEST DATA BLOUL ED TO BE SUBLITTED WITH APPLICATION

Hole !		CLOCK	r TraE		PER	COLATION		PERCELATION
	Run! No.!	Start	Stop	Elapse Time Min.	'Depth to V	Water nd Surface Stop	Water Level in Inches Drop in Inches	
	1 !	0	حو.ا	5	12"	15"	2/1/2	1 4
1	2	0	1 4	. 4	112"	15-11	212/min	1 4
-	3 !	0	14	. 4	12'	11"	21/1/10	: 4
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	5 I		e E	ŧ	ę.	ŧ	f .	t !
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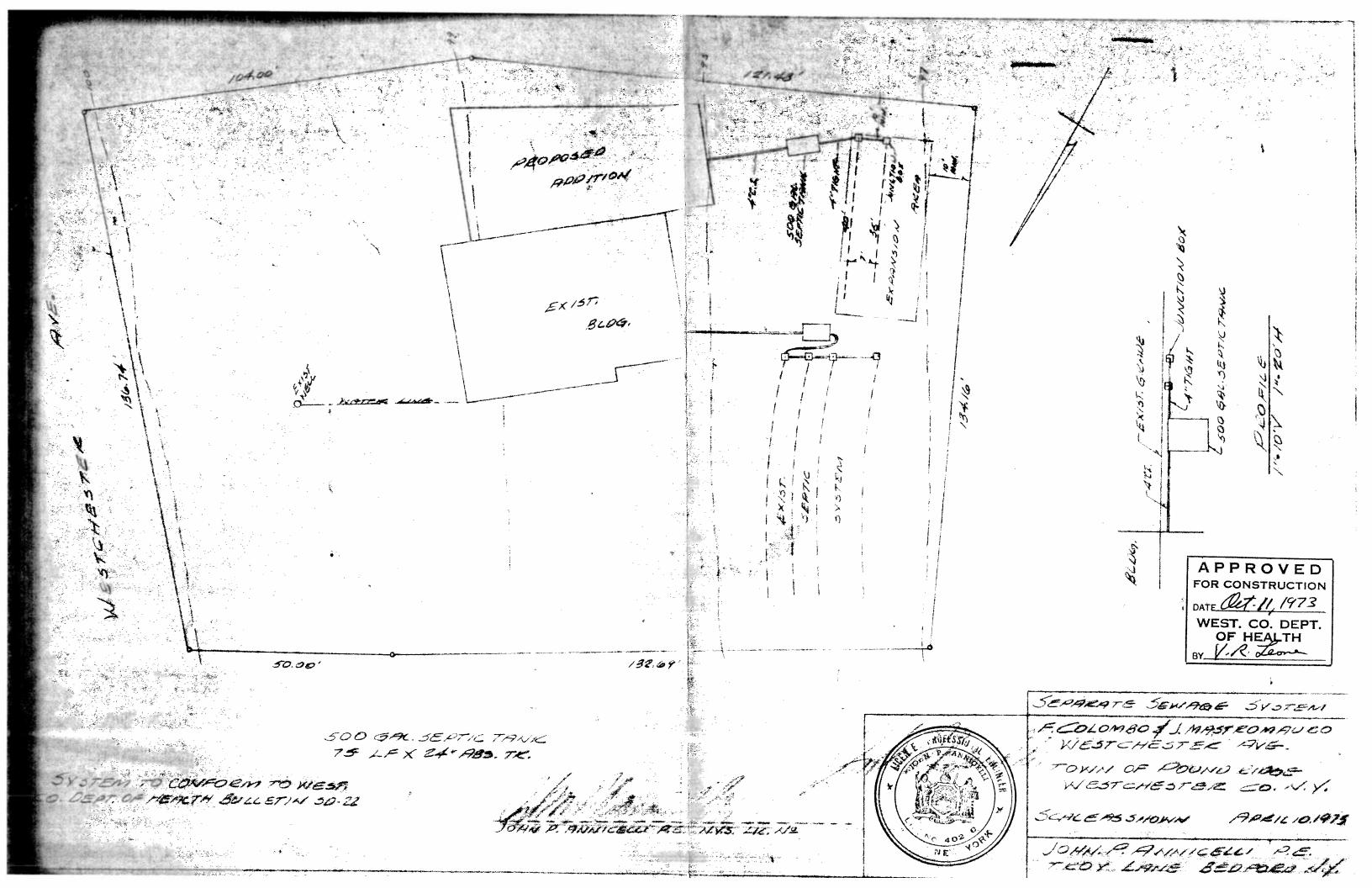
Notes:

1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

2) Depth measurements to be made from top of hole.

TEST PIT DATA LECULLED TO BE SUBLITTED OF APPLICATION DESCRIPTION OF SOILS E COUNTE ED IN TEST HOLES

. L.	H LE 30.	HOLE NO.	MOLE NO.	HOLE NO.	
بدا •	Topsoil				
6 n	Topsoil Beall Aun G	covel			
12"	11				The second section of the second seco
18"	"/				fry Marindrian and parager sar
24"	11				Marian Cara Cara Cara Cara Cara Cara Cara Ca
3O"	11				Michigan Park Colonia (Michigan)
36"	11				**************************************
.2"	//		449-989-984-984-984-984-984-984-984-984-	на намения меньшай. то т то фазу дато допусу у то фонкуру до место обхорого право да бого до то со то од наурог	inneren er
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AFIM	Redrooma		AND A ALL		
. of 1	Dear Johns	Septic Tank Capa	city 500 Gals	. Masonry Metal	NAST ANALYSIS ANALYSI ANALYSI ANALYSI ANALYSI ANALYSI ANALYSI ANALYSI ANALY
o. of I	ion Area Provid	ed By 75 L.F.x2	city	Area Provided - /20///////////////////////////////////	ndimilijihatienamestikovahengalaelus
sorpt	ion Area Provid	led By 75 L.F.x2	4" 36" w	idth trench. Other	atropolinina rapilationa autoria autoria a
sorpt	ion Area Provid	led By 75 L.F.x2	4" 36" w	idth trench. Other	atropolinina rapilationa autoria autoria a
sorpt	ion Area Provid	led By 75 L.F.x2	4" 36" w	. Masonry Metal idth trench. Other	atropolinina rapilationa autoria autoria a
medress_	ion Area Provid Ohn PAnn Troy Lane Brdtvv	led By 75 L.F.x2	W 36" w Signature SEAL SEAL OB HEVE OB	idth trench. Other	atropolinina rapilationa autoria autoria a



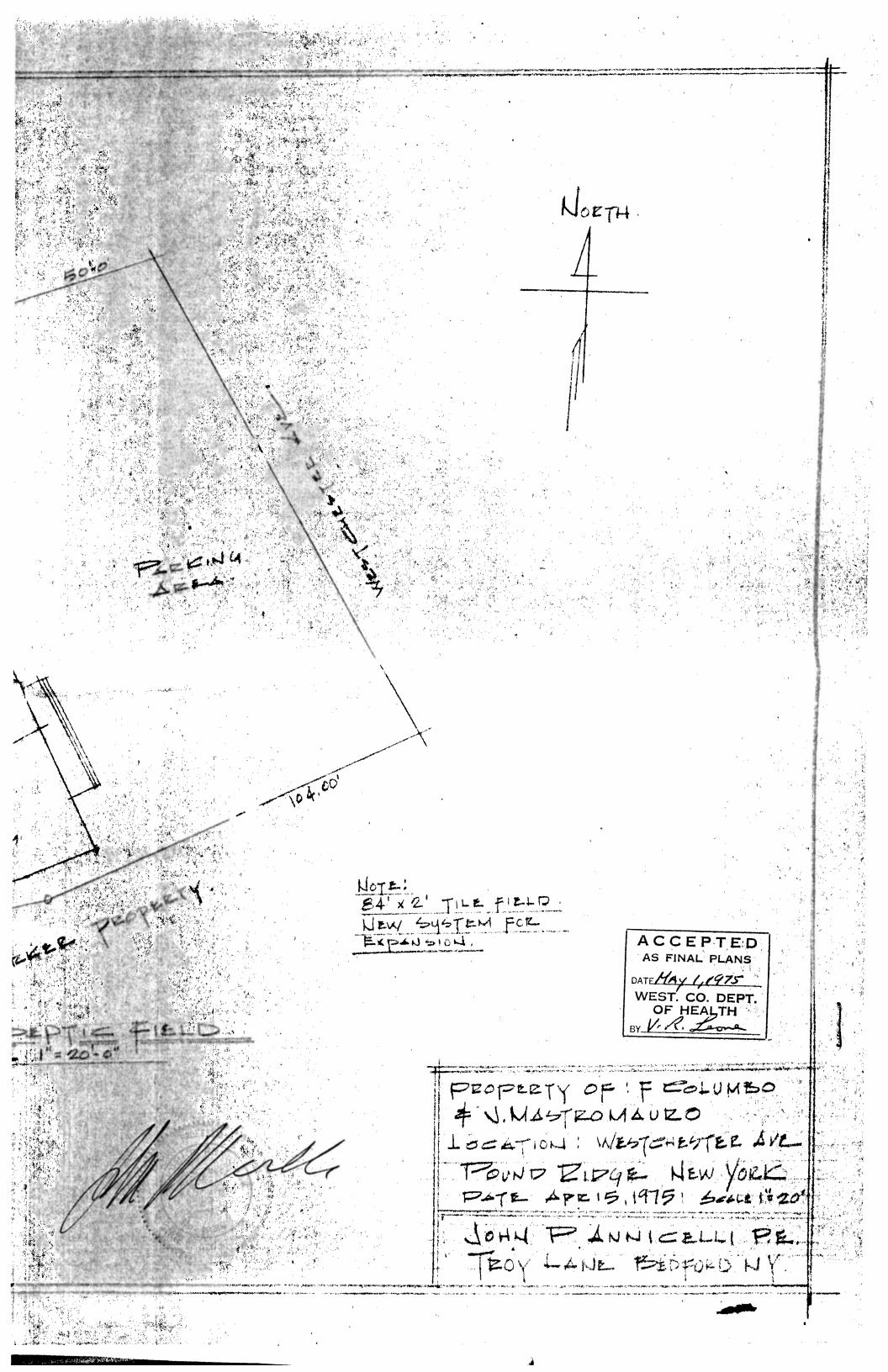
VALIEN PEOPLETY 132.69 122-h 4 PEOPERTY PEANER FOR 1019 121.48 BUTTER CPEOPERTY LINE

NO TRUCKS MACHINERY BUILDING MATERIALS NOR EXCAVATED EARTH ALLOWED IN SEWAGE DISPONDED AREA TO CONSTRUCTIONS OF THE PREMISE PHONON GOVERNMENTAL AGENTS.

THE EVERY AND REQUENTIONS OF THE PERMIT INDUNING GOVERNMENTAL AGENTS.

VALIEN PEOPERTY PLEEL 132.69 The state of the s FREEING ARELA. TWO STORY DE PENDS. 104.60 FEMILE FOR DA ELEKER PROPERTY. NOTE: 84' x 2' T NEW 545 121.48 CPEOPERTY LINE

LIS NOR EXCAVATED EARTH
CONSTRUCTION OF THE EAST AND
LIS ANY REVISIONS THERETO AND
LIS LOUISING GOVERNMENTAL ACTIONS



9455-25 54 WESTCHESTER AVE

Separate Sewerage System CERTIFICATE OF CONSTRUCTION	COMPLIANCE 94-35-18 WCDH File No. PR 75-25-7
wated at war // Allo	Section Block 7
eparate Sewerage System built by	of Konserve Address Place to fill the play
Consisting of	Gal. Masonry, Metal Septic Tank 187 lineal feet X 3 6 width trench
Other requirements	
Public Supply FromPrivate Supply Drilled By	Address Date Permit Issued Oct. 8 11775
rosion Control Completed	Number of Bedrooms Date Permit Issued Set 8,1113
ther Requirements	A STATE COSTONIAL CONTRACTOR OF THE PARTY OF
rith the standards, rules and regulations, plans filed, a	premises were constructed essentially as shown on the plans of the completed work (copies of which are attached), and in accordance and the permit issued by the Westchester County Department of Health.
ate / - /	Certified By ystem(s) shall promptly take such action as may be necessary to secure the correction of any unsanifary conditions resulting from a shall become null and void as soon as a public sanifary sewer becomes available and the approval of the private water supply shall
such usage. Approval of the separate sewerage system secome null and void when a public water supply become	comes available. Such approvals are subject to modification or change when, in the judgment of the Commissioner of Health, such modification or change shall be done under the supervision of a licensed Professional Engineer or Registered Architect.
uch usage. Approval of the separate sewerage system accome null and void when a public water supply bed evocation, modification or change is necessary, said	comes available. Such approvals are subject to modification or change when, in the judgment of the Commissioner of Health, such

.



TY OF WESTCHESTER DEPARTMENT OF HEALTH - Division of Environmental Health Services

DESIGN DATA SHEET - SEPARATE SEWERAGE SYSTEM FILE NO.

Owner Barnwell Associate Address Westcheste, Apr

Located At (Street) Westcheste, Arc Sec. 8 Block 9455 Lot 24

(Indicate nearest cross street)

Municipality Mund Address Matershed

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

		TIME		The management of PERCO	LATTON	a eta eta eta eta eta eta eta eta eta et	'PERCOLATION
Run		Stop	Elapse Time Min.	Depth to Wa	ter Surface Stop	Drop in	'Soil Rate 'Min/in.drop
1	11:00	11:25	36	77	24	3	12
2	11:36	12:09	33	2.7	14	2	1/2
3	10:10	112:49	34	27	ιY	9	1/2
4					entry.		
5	La suid suid suid suid suid suid suid suid	t displaying services in the	14.1.1.2.1.4.2.4.1. 14.1.1.2.1.4.2.4.1.		u N Service services		1
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2	11:02	11:40	38	7)	υγ.	7	13
3	11:40	12/6.	36	27	24	3	1/2
4	12:16	/2:52	36:	27	٦/:	7	12
5 '	e e e e e e e e e e e e e e e e e e e						
1		Agginger etc.					
2 '							
3 1							
4				A control of the cont			
5 1		16			•		
	Run No. 1 2 3 4 5 5 1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Run' No. Start 1 '//00 2 '//36 3 '/2/0 4 '/2/6 5 ' 1 2 '//02 3 '//40 4 '/2/6 5 '	No. Start Stop 1	Run Start Stop Time Min. 1	Run Elapse Depth to Wa Time From Ground Start Stop Min. Start Inches	Run	Run

Notes:

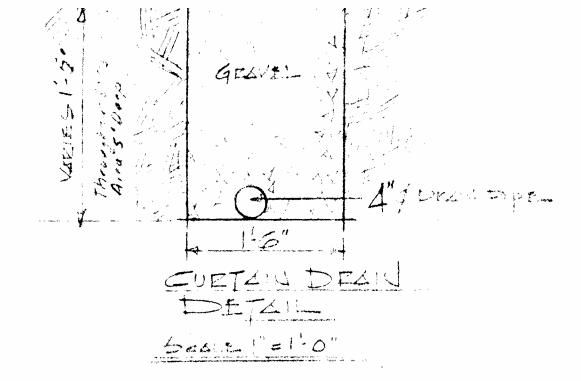
2) Depth measurements to be made from top of hole.

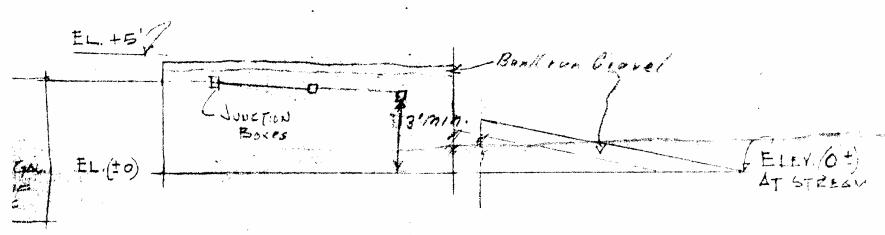
¹⁾ Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

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

EPTH	HOLE NO.	HOLE NO.	HOLE NO.	HOLE NO.
.L.	Top Soit			
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18**				
24"				
30"				
36"				
42"	11.			
48"	11			
54"	//	w.C/a,		
60"	<i></i>	11		
66"	1/	//		
72"		()		*
78"	11	11		***************************************
84"	Y	//		
INDICATE	LEVEL AT WHICH GREEN LEVEL FOR WHICH WARDE BY	AFER LEVEL, RISES	AFTER BEING ENC	COUNT 2 RED 3
-11 n		DESIG	:N	Double The
oil kat	e Used // - // sedrooms 600) a //om/ Sep	_ Min/l" Drop: <i> doj</i> tic Tank Capacit	S.D. Usable Are y <i>500</i> Gals.	Mason Metal
	on Area Provided B			PA 1
ame			Signature	Melle to and m
ddress_	John P. Troy La. Radio	Annice 10506 rd, N	SEA1.	No. 40230 HHER
estches	ter County Health	Department	,	CB .
oil Rat	e Approved	Sq.Ft./Gal.	Checked by	Date

Address	Troy La	hin P. Annicely 18296 Redford, N
Westchester	County Heal	lth Department
Soil Rate A		Sq.Ft./Gal
5.D.27.6 (Re	ev. 5-22-73))





PEOFILE SEALE 1"=10:0"

ELEV. (ta)

NOTE:
1,000 GAL SEPTE TANK.
189' L.F. X 36" ABS.TZ.

Ø TEST HOLE.
+ Perc. Hole
309' OF CUETAN DEXN 5 DEEP

	' A"	"B"
TIE TRUK	42'	54
eTION BOX"		
TION BCX 4	161	154:6"

ACCEPTED

AS FINAL PLANS

DATE Col. 26/976

WEST. CO. DEPT.

OF HEALTH

BY

REVISION AS BUILT JULY 13, 1976.

DARNWELL AGGOCG.

SEPERATE SEWAGE SYSTEM.

LOCATION: WCHESTER BO & TRINITY PAGGED

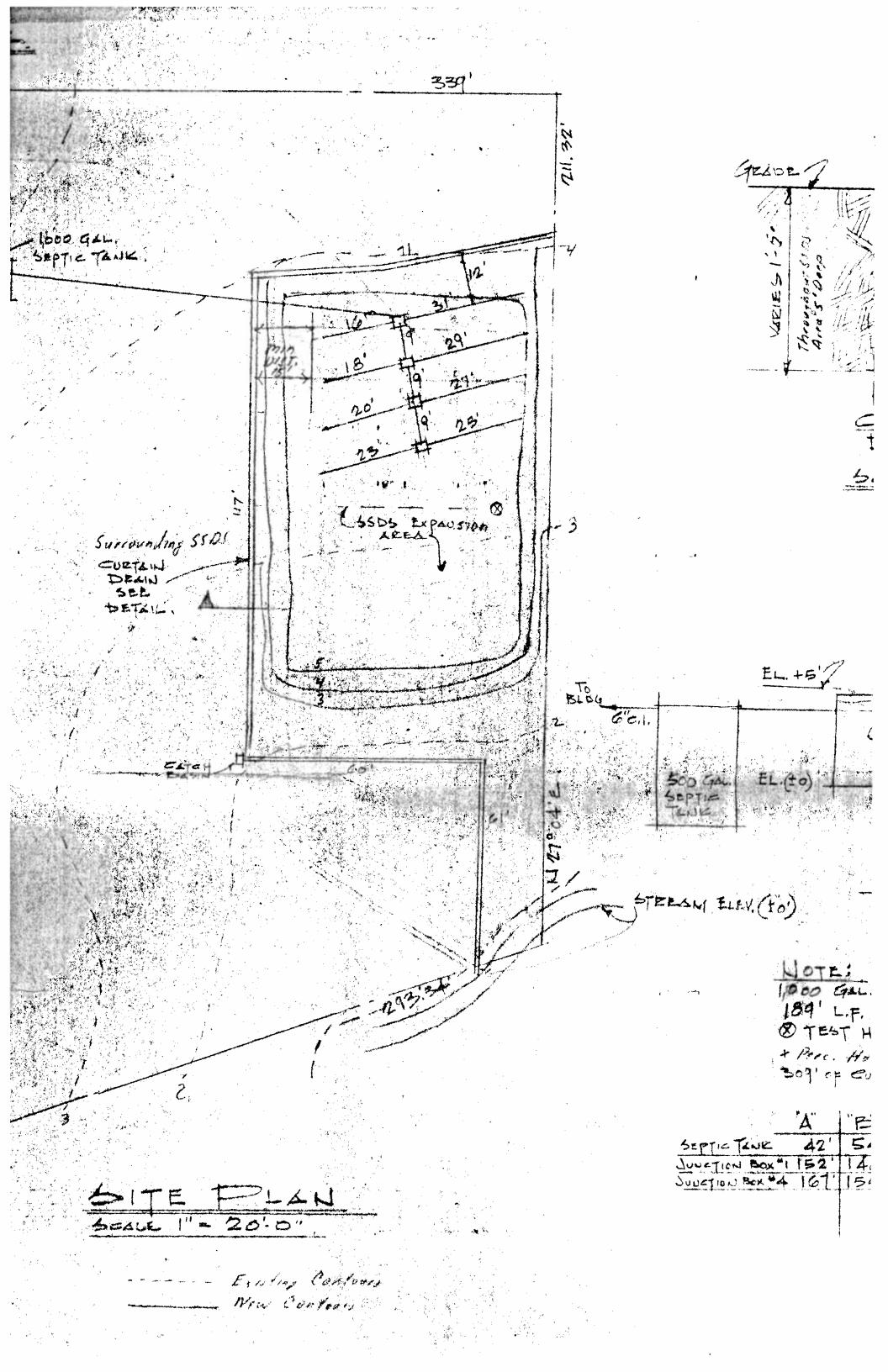
POUND RIDGE HEW YORK.

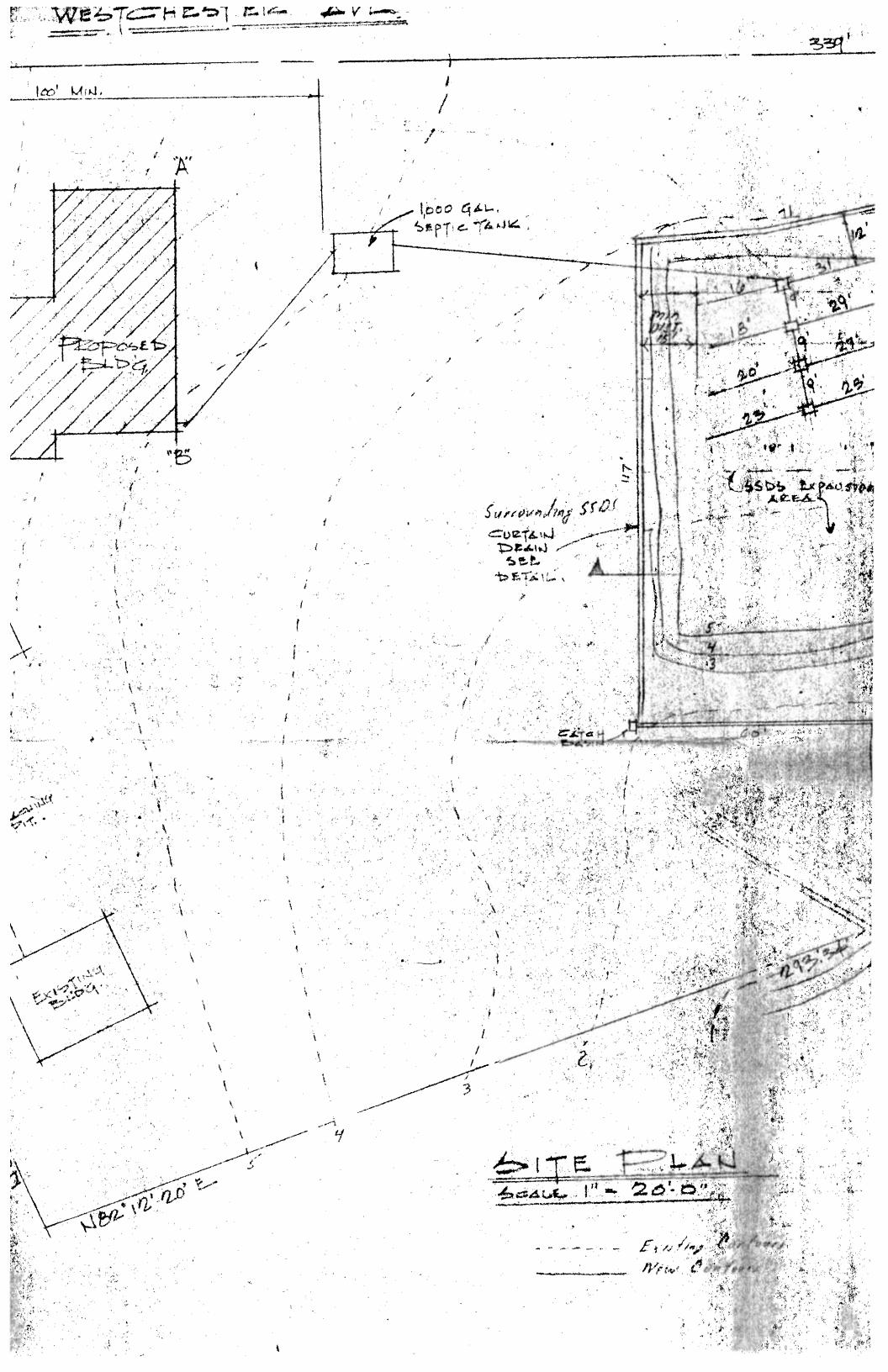
SECTION: 8 BLOCK! 9455 LOT: 24

DATE SEPT 18, 1975 SCOCE AS NOTED.

John P. Annicelli, P.E. Trov La. Bedford, N. 7, 10500







9455-25 54 WESTCHESTER AVE

Firsting
Sanarata Sawaraga System Private Water Sunniv Toundridge M.Y.
Separate Sewerage SystemPrivate Water Supply
CERTIFICATE OF CONSTRUCTION COMPLIANCE WORLD FIRE NO.
X-10-1-4 A.10
Weschester Aue Section 2 Block 9453
17/4/0 Properfies
IPI + P - Ki 22 THEN IDE NO WELLING
Separate Sewerage System built by UMIO VO CONTROL Address 32 // 1000991 200, 100, 100, 100, 100
Consisting of 2005 Gal, Masonry, Metal Septic Tank / lineal feet X width trench
ACOCUMUSTY FX
Other requirements None
Water Supply: Public Supply From Zaristing
5 Tokes word from home para paratitioned some for the
Building Type Date Permit Issued
Erosion Control Completed Waived
Other Requirements Business using min and water only
Other Requirements / Volume 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
I certify that the system(s) as listed serving the above premises were constructed essentially, as shown on the plans of the completed work (copies of which are attached), and in accordance
with the standards, rules and regulations, plans filed, and the permit issued by the Westchester County Department of Health.
Date May 20 1968 Certified By . Manley morticerasing in
Any person occupying premises served by the above system(s) shall promptly take such action as may be necessary to secure the correcting of any unganitan sometimes from
such usage. Approval of the separate sewerage system shall become null and void as soon as a public sanitary sewer becomes available and the approval of the private water supply shall
become null and void when a public water supply becomes available. Such approvals are subject to modification or change when, in the judgment to the commissioner of Health, such revocation, modification or change is necessary.
With proper maintenance these systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.
24 15 Have
Date William A. Brumfield, Jr., M. D., Commissioner By
SD 47.64 Westchester County Department of Health

DaugLAS MACKEY



KAISER - BATTISTONE, INC.

Sewage Systems Specialists

CLEANING
REPAIRS
IMSTALLATIONS
ELECTRIC POWER
DRAIN CLEANING
SEWAGE TREATMENT
PLANTS

ORINATION

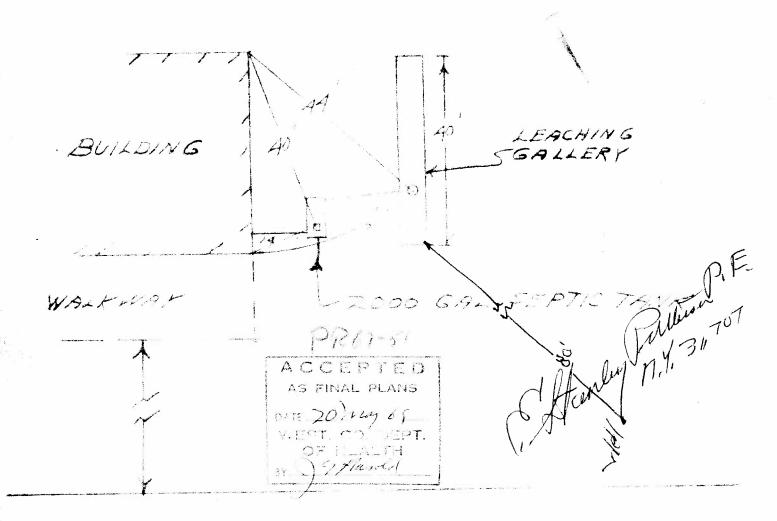
COUIPMENT

MAIN OFFICE: 18 GROVE STREET NEW CANAAN, CONN

PLUTO PROPERTIES WESTCHESTER AVE POUND RIDGE, N.Y. TELEPHONE 966-5656 NORWALK 866-5904

RIDGEFIELD 438-5500

APRIL 1968



WESTCHESTER

AVE

FONE 1420

DESIGN DATA SHEET - SEPARATE SELERAGE SYSTEM FILE NO. PIG 7-5/
Owner Plato Properties Fue Address 32 Mc Dougal Drive
Located At (Street) Westchester Goe (Trinity and Sec. 2 Block 9955Lot 25
(Indicate nearest cross stat)

Municipality Pound Ridge M. Y. Watershed Stamford, Cong.

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBLITTED WITH APPLICATION

II. I)							
Hole Number		CLOCK TI	ī.E		PERCOL	иотта.		PERCOLATION
	Run No.	Start		Time	Depth to W From Groun Start Inches	ater	Drop in	Soil Rate
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	22	12:37	12,47	10	2014"	2034	1/2"	2 Min
On the second se	3	12/47	12:57	10	203/4	211/4"	1/2 "	20 Min
And the second s	4	12/57	1,07	10	21/4	213/4"	Y2 4	Zo Min'
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	2						######################################	entrina — in -nigrapidenteración co-ans. Administración para de la companya de la
	3		- Charles				Anton Arithmet Marie Baser desir versiby unacyfling gannefynggyng yn gwyr ac gan	
	4						Andrew Prijter (1984) i Lendbreit Begrieß (1984) erstelle sich betreit bei erne beginnig februit erst	
	5_							de de la constantina del constantina del constantina de la constantina del constantina
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	3	and the second of the second o						
		entropessigness (r dis-respectations);						The state of the s
	5	·						
	3							

Notes:

Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.
 Depth measurements to be made from top of hole.

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

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The second secon		and the second s	ESIGN		a.
				Area Provided 5000	pippenegiilib
No.	of BedroomsSep	otic Tank Capacity	2000 Gals. Maso	onryMetal	Bestimples
Abso	orption Area Provid	led ByL.F.x24	36"widt	x 5 x 5' h trench. Other	
N.	E. Stanley O	Patterson	Signature (/ / YN 97794-79, Y	P.E
A 3 3	ress 370 Scol	Beldhorn, Road		SIANLEY OF	
AGGI	Star	nford Conv	g Government	TOWARS TO	
We C	venesuor county He	alth Department	organis (EE dings) till och til de til och som gegling men hav med till film sind, om og dette med	POFFCCIONA	ragenegitari en temedita
	oil Rate approved_	* * *	Checked by_		
			Clans	showing 4 stores	y one clint
S.D). 27.6 (Rev. 5-24	-66)	suite	returned with	funct

Westchester gov.com

ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

70	_	ligh	Sta	ite: /	1, √.	Zip: 10576	
	NG M	Anagement,	uc			Indianasa and an ang gayagay.	
Owner Mailing	Address (No. &	Street) (if different):	P.O. Bo	× 107	7-	and the second s	
Town/ Village:_	Pounda	101€		State:	N.Y.	Zip: 10576	
Property Use:	[] Single Fam	ily [] Multi-Family [] In	idustrial 🗺 omn	termination of the second of t			
* * * *		cribe:	-				
7 iii .		**************************************			CASEM	£	
OWTS Remed	diation 🗆		,	W	CDH File #:	BEQ-2665	-14- MK
wastes or offens	ive material on all not include re	ation, replacement, or en failure, resulting in, or to the surface of the gro epairs, as defined above	und, into a storm to correct an O	m the dischant sewer, or in WTS failure	rge of sewage	والمراجي والمناز والمتعارض	rect VAS ; rade
_	/ ~	plete the following	4				
Repair shall me treatment system	an the repair, m n components.	aintenance, and replace	ment in kind and		roken, damage	ed, or worn onsite waste	water
Number of Bedr	rooms	Number of Bathroo	oms:	W	rerSunalv.Pu	pe: Public 🗆 Well 🏂	
5. å	Please n	ote below only comp					•
	eplaced	*	Onches that ha	ive been ie	han en or re	piaced.	
Repaired R							
Repaired R	*						
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Repaired R	☐ Hou	ic Tank#1 Size(gallons):		OF WOR	RK PERFORMED ON BAC	
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Repair File #:REP (WCDH Staff only)

* 1

INSTALLED NEW 24"
DIA. METAL FRAMER COVER

|O| SEPTIE

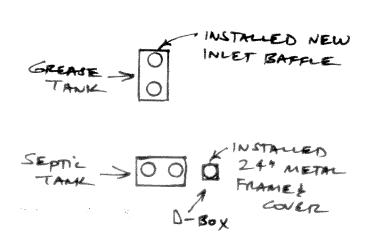
T-P > | TAMK

GALLEY'S

FRONT

BUILDING

BACK



Attention Vincent Silva

ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

Nomination &	wel Ridge
- · · · ·	TWO STEAMS FOR THE
	MNG MANAGEMENT LLC
	ess (No. & Street) (if different): 365 Route 304 Suite 204
Town/ Village:	the contract of the contract o
	ingle Family [] Multi-Family [] Industrial (Commercial
(ther - Describe:
OWTS Remedia	WCDH File #:
an OWTS failure, wastes or offensive	can installation, replacement, or expansion of onsite wastewater treatment system components to correct impending failure, resulting in, or that may result in, the discharge of sewage or domestic wastes or trade laterial on to the surface of the ground, into a storm sewer, or into a watercourse or water body. It include repairs, as defined above, to correct an OWTS failure.
	OR
OWTS Repair	Complete the following information.
Repair shall mean treatment system o	prepair, maintenance, and replacement in kind and in situ; of broken, damaged, or worn onsite wastewater aponents.
Number of Bedroo	Number of Bathrooms: Water Supply Type: Public Well
	Please note below only components that have been repaired or replaced.
Repaired Rep	
Contractor's Name	House Sewer or other Solid Pipe(s) Septic Tank#1 Size(gallons): Septic Tank#2: Size (gallons): Junction/Distribution Box(es) Sewage Pump(s) or other Dosing Equipment Absorption Trench Length ft. X Trench Width ft Seepage Pit(s) Galley(s) Gravelless Trench(es) 75-A Alternative System Other Advanced Alternative System Other System Component(s) - Describe: The Chambers in grood constitution Other System Component(s) - Describe: The Chambers in grood constitution Explain All broken Chambers in Joseph Same ire System Replaced (Sketch attriched) Date Repair/Remediation Completed:
Contractor's Signati	
Upon completion pl	
- p	Weichester County Department of Health- BEQ 145 Huguenot Street-7th Floor New Rochelle, NY 10801

Attn: Patricia Tomello-Adams

Repair File #:REP

FROM :

FAX NO. :

The first of the first of the party of the supplied that the

Jan. 25 2007 03:24AM P1

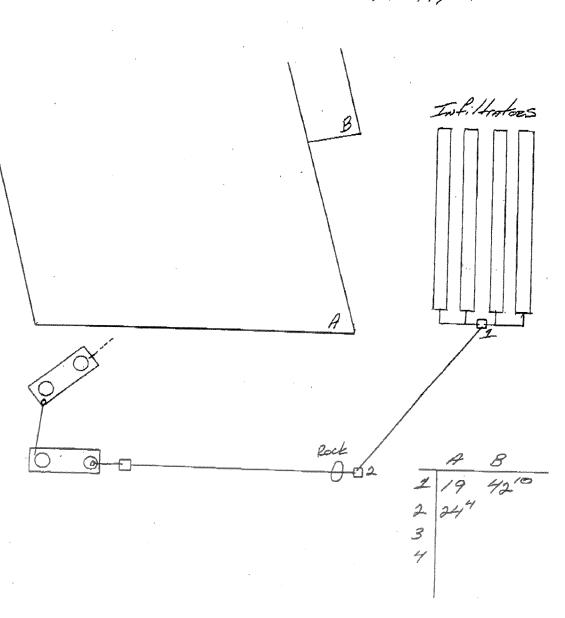


KATONAH SEPTIC, LLC.

WILLIAM J. POCHINTESTA 12 ANDERSON RD. KATONAH, NY 10536 (914) 232-6010



54 Westchester Av. Pound Richer My 43/1 03/17 09



9455-27 38 WESTCHESTER AVE



Westchester County Department of Health Bureau of Environmental Quality

WCDH File No. PR2007-18 Municipality: Tn Pound Ridge X Separate Sewage System X Private Water Supply
CERTIFICATE OF CONSTRUCTION COMPLIANCE:
Watershed Basin: L.I. Sound
Located at: 38 Westchester Avenue Section: 8
Owner Last Name: Ferrara Owner First Name: Thomas Lot: 27 R.S. Lot:
Separate Sewage System to Consist of:
Septic Tank Size: 1,000 Gallons Trench Length: 34 Lin.Ft. X Trench Width: 24 Inches Other Requirements:
Building Type: Office Building # of Bedrooms 0 Date Permit Issued: 10/19/07
Erosion Control (EC) Completed Voc
Other Requirements: EC Waived
Separate Sewage Contractor (SSC): Francher TWC # 159
Water Supply: Public Water Supply Public Water Source:
Well Driller (WD) Company Name: TORLISH + SONS WATER METER INSTAULED AS REQUIRES.
I certify that the system(s) as listed serving the above premises were constructed as shown on the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regularions, plans filed, and the permit issued by
Date: 5/9/08 Certified by: Theodore t. Stauss
iny person occupying premises served by the above system(s) shall promptly take unaction as may be necessary to secure ecome null and void as soon as a public sanitary sewer becomes available and the approval of the separate system shall ecome null and void when a public water supply becomes available. Such approvals are subject to modification or change change shall be done under the supervision of a licensed Professional Engineer or Registered Architect. With proper aintenance the systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.
now person occupying premises served by the above system(s) shall promptly take unraction as any be necessary to secure ecome null and void as soon as a public sanitary sewer becomes available and the approval of the separate sewer shall ecome null and void when a public water supply becomes available. Such approval of the private water supply shall hen, in the judgement of the Commissioner of Health, such revocation, modification or change in personal in pe
iny person occupying premises served by the above system(s) shall promptly lake unraction as the correction of any unsanitary conditions resulting from such usage. Approved of the separate section as a public sanitary sewer becomes available and the approval of the separate section shall ecome null and void when a public water supply becomes available. Such approvals are subject to modification or change change shall be done under the supervision of a licensed Professional Engineer or Registered Architect. With proper aintenance the systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.



Westchester County Department of Health

Bureau of Environmental Quality

WELL COMPLETION REPORT:

WCDH File No. PR2007-18

This report is to be completed by well driller and submitted to Health Department, together with laboratory report of analysis of water sample indicating water is of satisfactory bacterial quality, before certificate of construction compliance is issued.

Well construction to be in accordance with Bulletin SD-62, "RULES AND REGULATIONS RELATING TO INDIVIDUAL WATER SUPPLIES"	
Located at: 38 Westchesten Avenue	
Well Location Municipality: In of Pound Ridge Block: 9455	
Owner Last Name: [Z /]	
St. #: 38 St. Name: West Municipality:	
Well Driller (WD) Company Name: Mest Municipality: In Pound Ri State: NY Zip Code: 10576	
30N	
Well Pit and Pump Equipment Details: Pitless Adapter. Other - Describe:	
Pump Type: Cubus 17	
Storage Tank Type: Well A Trol Storage Tank Capacity: Wallow Pump GPM: 5	
Casing Length: 35 Ft Viold Town	
Casing Diameter / In Wield T. (2) Measured from Land Surface:	
Casing Material: Casing Material: Gasing	
Well Field . 5 G.P.M. Water Level Pumped : 1/02 Fi	
Screen Diameter: In.	
Screen Length · 5	
Ft.	
WELL LOG: Give description of formation panets to the second seco	
Depth From Ground Surface Give description of formation penetrated, such as: peat, silt, sand, gravel, clay, hardpan, shale, sandstone, granite, etc. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard). For example: Off. to 27 ft. fine, packed, yellow sand; 27 ft. to 134 ft. gray granite.	
6 Ft to 7 Ft Woll Coats	
7 Ft to 17 Ft Wall a .	
13 Ft to Cot Ft Will a will stark KUN Gravel	
Well Geology, 3rd Strata: GRAN GRANITE	
Tron Geology, 4th Strata :	
Ft. to Ft. Well Geology, 5th Strata:	
Ft. to Ft. Well Geology, 5th Strata:	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health.	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin Date Well Was Completed: 4808 Date of Signature: (a) 11, 538	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin Date Well Was Completed: Well Geology, 5th Strata: Date of Signature: Date of Signature: DEC 10318	
Ft. to Ft. Well Geology, 5th Strata: I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health. Date Well Was Completed: 4707 Date of Signature: 6/16/07 DEC 10318 Sworn to before me this day	
Ft. to Ft. Well Geology, 5th Strata: Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health. Date Well Was Completed:	
Ft. to Ft. Well Geology, 4th Strata: Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin	

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality 118 North Bedford Road Mount Kisco, NY 10549

DESIGN DATA SHEET - SEPARATE SEWAGE SYST	EM FI	ILE NO.			
Owner Thomas Ferrarya/Sarah Becker Address 38	Westchest	er Aven	iue,	Scotts	Corners
Located at (Street)	Sec8				
(Indicate nearest cross street) Municipality Town of Poundridge	_ Watershed	•		Lot	
SOIL PERCOLATION TEST DATA REQUIRED TO BE			PPI IC	ATION	•
Presoak Date: 3/27/07	Run Date:	3/28/0		ATION	

Hole #		CLOC	K TIME			pr	ERCOLA	LION
Hole Number	Run No.	g.		Elapse Time	Depth From Grow Start	to Water and Surface Stop	Water Level Drop In	Soil Rate Min/in
1	1	Start 11:59	Stop	Min.	Inches	Inches	Inches	Drop
	2	- i - ,	12:16	17	20	23	3	17/3=5.6
	:	12:18	12:37	19	20	23	3	19/3=6.3
	3	12:39	1:03	24	20	23	3	24/3=8.0
		1:05	1::30	25	20	23	3	ı
	5	1:32	1::57	25	20	23	3	25/3=8.3 25/3=8.3
2	1	12:02	12:21	19	20	23	***************************************	
	2	12:24	12:48	24	20	23	3	19/3=6.33
6 8 8	3	12:50	1.10				3	24/3=8.00
	4	1:20	1:16	26	20	23	3	26/3=8.67
\$	5	1:20	1:46	26	20	23	3	26/3=8.67
3		12:04	12:25	21				
8 P E	2	12:29	12:51	24	20	23	3	21/3=7.00
	3	*	1	- 4 !	20	23	3	24/3=8.00
3 3 3	4	12:54	1:20	26	20	23	3	26/3=8.67
	5	1:22	1:48	26	20	23	3	26/3=8.67
<u> </u>			7 8 8			ŧ		

Perc test done by: Theodore L. Strauss

Notes:

^{1.} Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

^{2.} Depth measurements to be made from top of hole. DO NOT REPORT INCREMENTS OF I FEE
THAN ONE INCH

	TEST PIT DATA	REQUIRED TO BE SUE	MITTED WITH APPLIC NTERED IN TEST HOLE	ATION
DEPTH	HOLE NO. 1	HOLE NO. 2	HOLE NO. 3	HOLE NO.
G.L.	Topsoil	Topsoil	Topsoil	***************************************
6"	Topsoil +	Topsoil	Topsoil	
12"	Sandy Loam	C d 1	6 1 1	
18"	u Loani	Sandy Loam	Sandy Loam	
24"	II	11	n	工
30"	Fine graded sa	and with small to	modium stopes	
36"	ıı	u with Small to	n stones	
42"	II	н	11	H 2 C
48"	. If	11	11	TA TA
54"	II .	11	II	PAAR 1
60"	11	11	11	
66"	II .	II II	11	
72"	Water	Water	Water	-
78"				
84"	3,	,		
NDICATI NDICATI DEEPTES	ED LEVEL FOR WE	H GROUND WATER IS IICH WATER LEVEL R L. Strauss DESIGN	ISES AFTER BEING EN DATE OF DEEP TEST	COUNTRED 66" CS 3/20/07
		· ·	Usable Area Provided Gals. Masonry X	
bsorption	Area Prov. by 150	L.F. x 24" width	trench. Other	STERED ARCAN
	race Lynch		Signature Signature	
ddress 6	3 Moore Avenue t.' Kisco, NY,	10549	Seal	031180 10E OF NEW
estchester	County Health Dep	artment		OF NEW
oil Rate A	pproved	Sq. Ft./Gal	Checked by	
D. 27.6				

84"	
WAS GROUNDWATER ENCOUNTERED INDICATE LEVEL AT WHICH GROUND WATER LINDICATED LEVEL FOR WHICH WATER LINDEEPTEST MADE BY T. L. Strauss	
D	ESIGN
Soil Rate Used 8-10 Min/1" Drop:	S.D. Usable Area Provided 4,500 s.f.
No. of Bedrooms Septic Tank Capacity	1,00 Gals. Masonry X Metal
Absorption Area Prov. by 150 L.F. x 24"	// CHLD 7
NameGrace Lynch	Signature Signature
Address 63 Moore Avenue	Seal
Mt.' Kisco, NY, 10549	OF NE
Westchester County Health Department	OF NE
Soil Rate Approved Sq. Ft./Gal	Checked by
S.D. 27.6 4/98	



avenue · mount kisco · new vork · 10549 · 914-241-3354

27 August 2008

WESTCHESTER COUNTY DEPARTMENT OF HEALTH 118 North Bedford Road, Mt. Kisco, NY, 10549

RE: Permit No. PR 2007-18 - 38 Westchester Avenue, Poundridge, NY.

Dear Fred,

Pursuant to your request, and the condition of the above referenced permit for the installation of the well and septic system, specifically the installation of a water mandewater use meter, I have inspected the building and found same to be properly installed on the lower level.

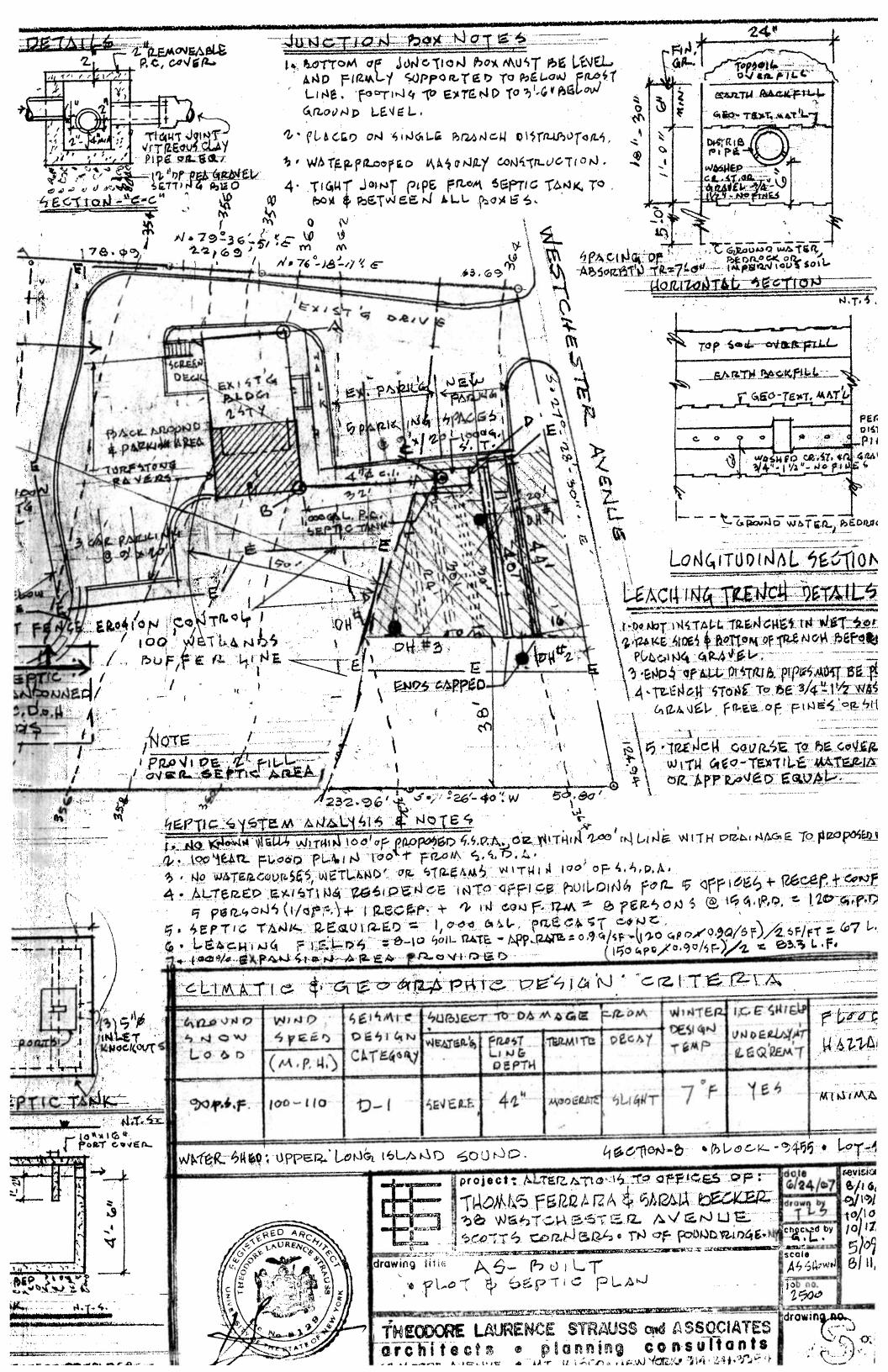
Trusting that the above provides the certification and verification of

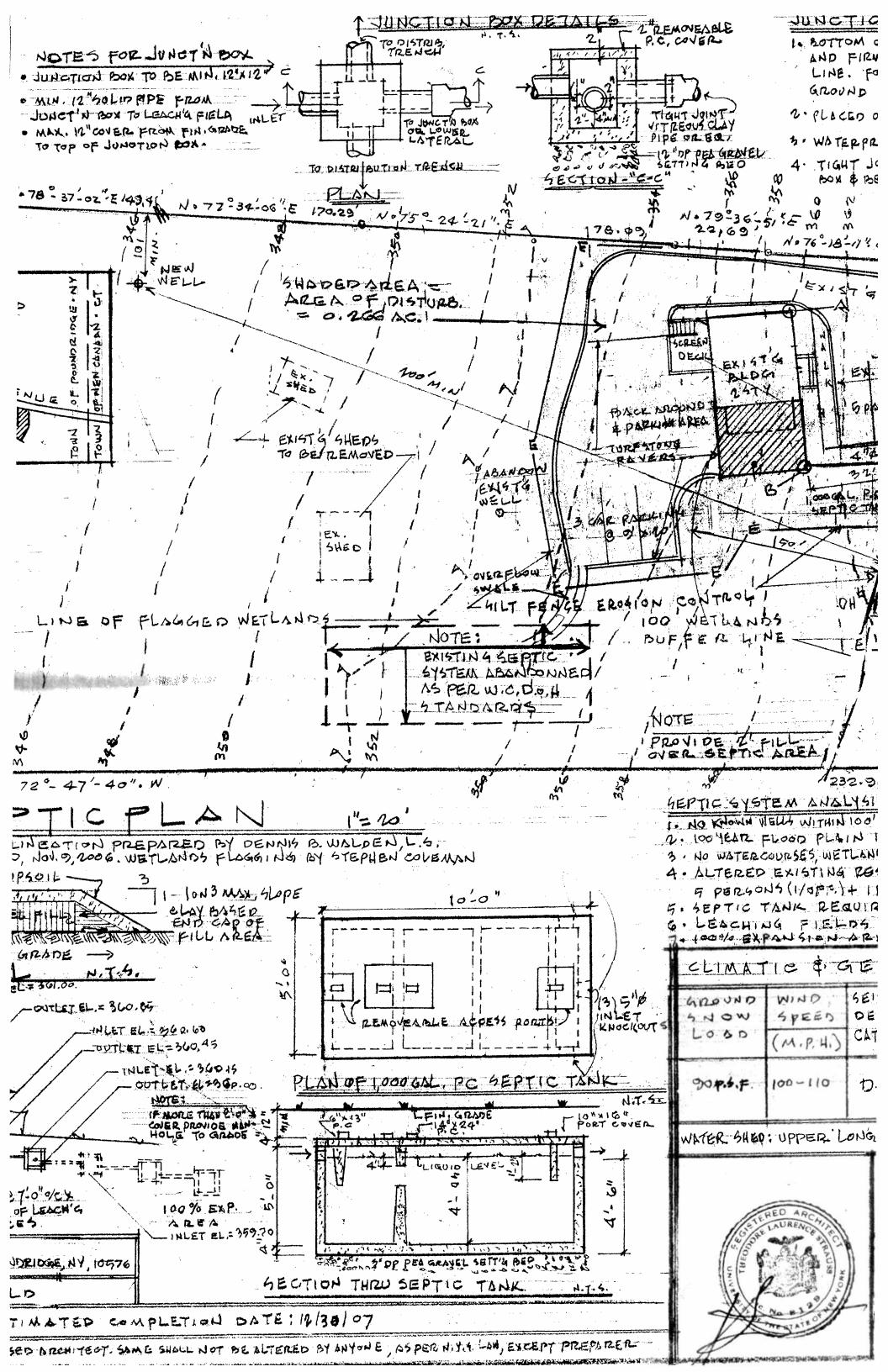
this item requested.

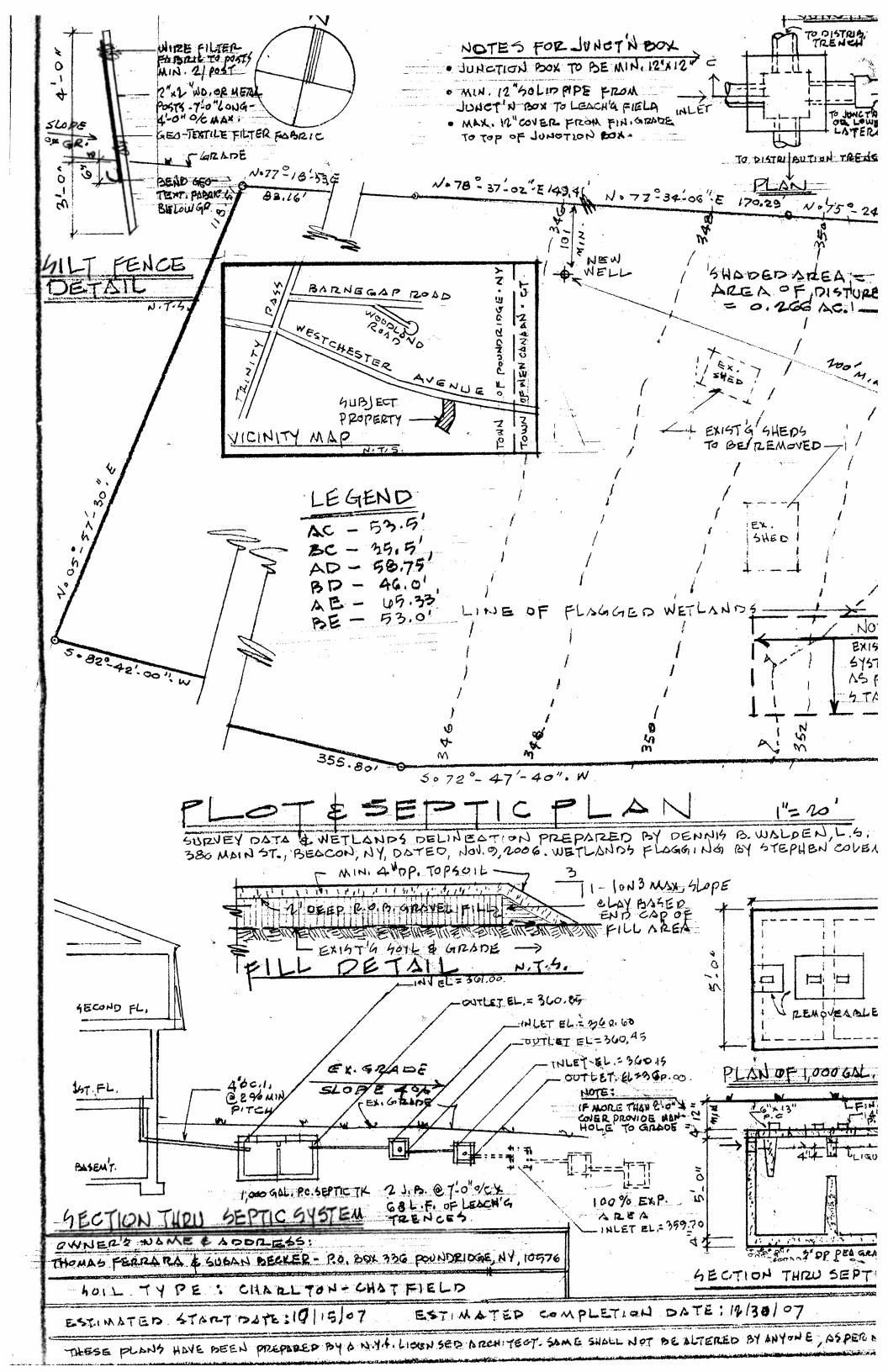
Westchester gov.com

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality

Bureau of Environme	ental Quality
PERMI	T NUMBER: PRZ 357-17
Name: Ferrent Becker	Municipality: Pono Rilx
Description: 150 GPO Max - sefic	e lust only SSTS
+ WELL (W/ meter)	
# of Sheets: ONC (1)	
- · · · · · · · · · · · · · · · · · · ·	
Reviewed by:	
	Date
Recommended by	
East	1 2 3







9456-1.9 55 WESTCHESTER AVE

SITE LOCATION PLAN SCALE: 1" . 2400 +

(402) ___ EXISTING GRADE

TEM #2

TO	Р	INC	ERT
7D 2	@ DIST. FIFE END	ĪN	оит
		416.64	416.54
		416.49	416.39
		416.00	415.73
	416.33	415.66	
:	416.13	415.46	
	415.57	414.90	
	411.89	411.23	
	408.93	408.26	-united
	405.98	405.31	
-			



POUND RIDGE

NEW YORK

CLIENT:

RPS REALTY TRUST

733 THIRD AVENUE

NEW YORK

NY 10017



LAURENT ENGINEERING ASSOCIATES, P.C.

MILLBROOKE OFFICE CENTRE Route 22 & Milltown Road Brewster, New York 10509 (914)278-6108 - (FAX) 278-2658 CONSULTING SITE ENGINEERS

DRAWING TITLE :

AS - BUILT PLAN



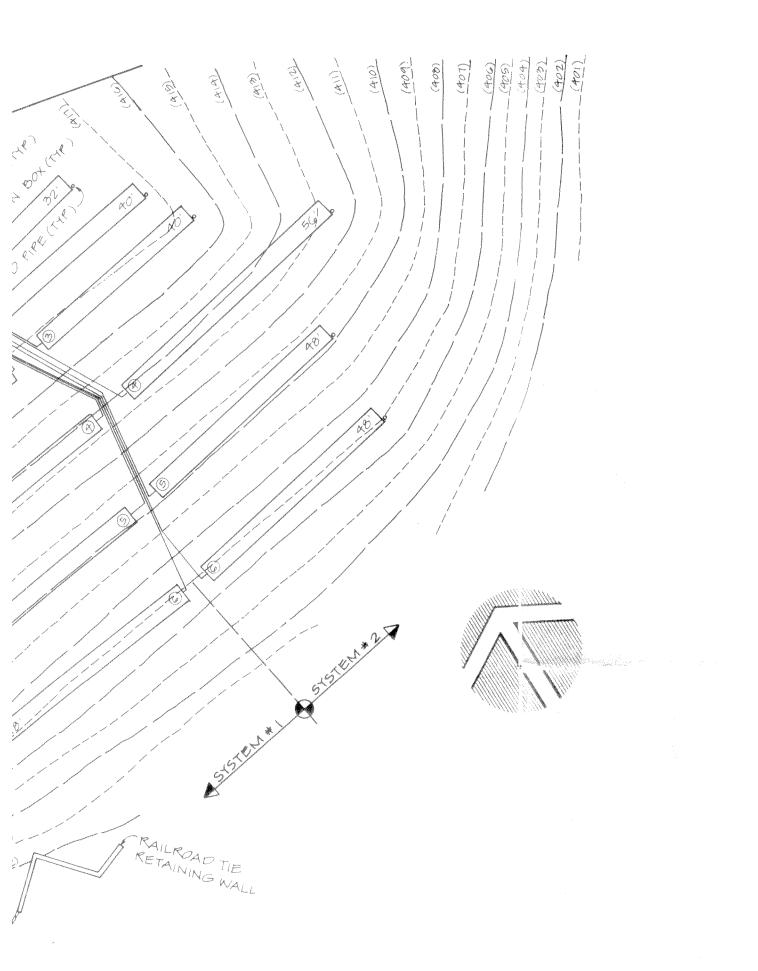
SCALE :	1' = 20'
DATE:	11 29 93
DRAWN BY :	TK

RWL CHECKED BY :

DRAWING No. 1

JOB No. 1

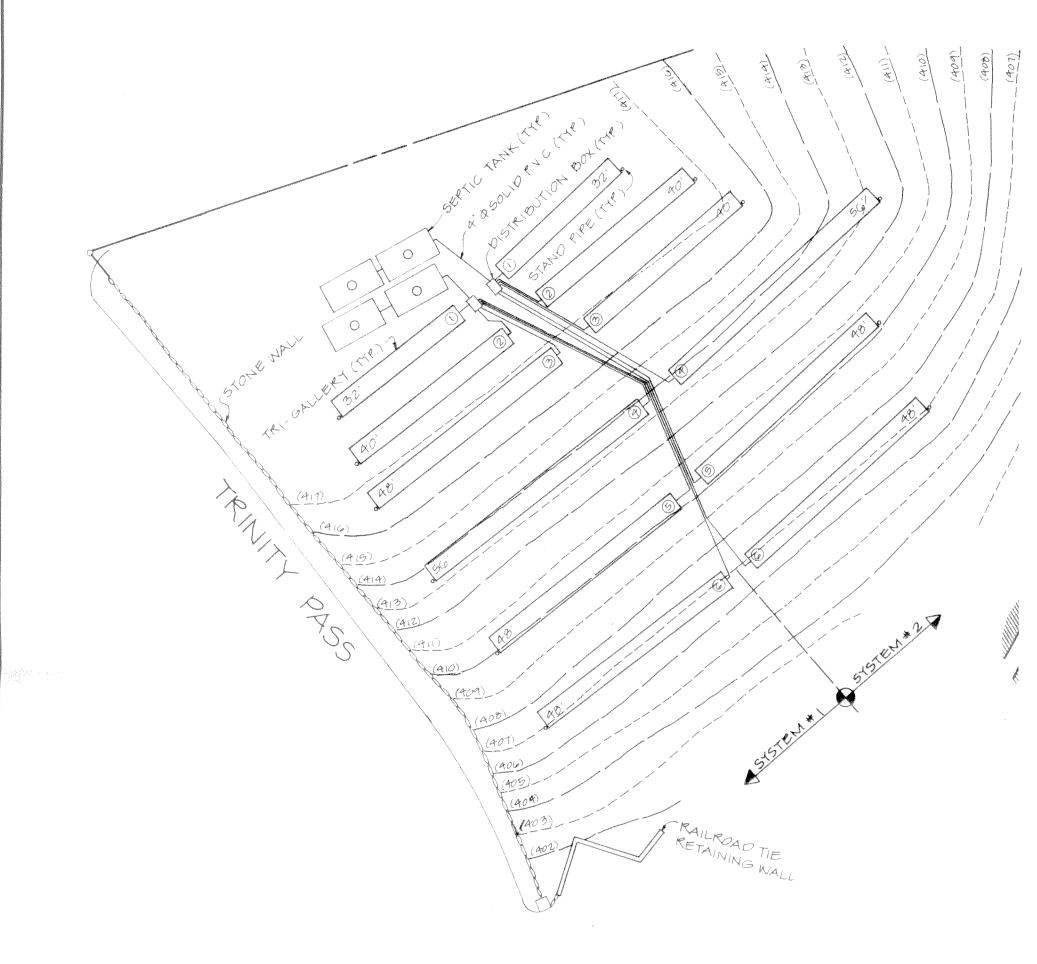
92089



SYSTEM #2

MI	/EFT
IN	OUT
416.45	416.27
416.24	416.15
416.00	415.73
415.65	
415.40	
414.96	Survival
411.37	
408.29	Section of the sectio
405.33	
405.33	4000

	South B. Spiell B. Brenn V. F.			morrel@hoppadox600 December
	T.C.	Service Servic	INV	
	3 STAND PIFE END	@ DIST. PIPE END	IN	OUT
1st SEPTIC TANK	aministra habornio. Vinnesso este persona malari est di basin descripción de muero esta establica de consenta y sectorio.	And the consequence of the contract of the con	416.64	416.54
2nd SEPTIC TANK	es e regione de la constante d	,A-Nacion	416.49	416.39
DISTRIBUTION BOX	at com	35664	416.00	415.73
TRI-GALLERY #1	416.27	416.33	415.66	, constitution
TRI-GALLERY #2	116.11	416.13	415.46	opport of p
TRI-GALLERY #3	415.55	415.57	414.90	AND THE PROPERTY OF THE PROPER
TRI-GALLERY #4	411.86	411.89	411.23	Proposed State of Control of Cont
TRI-GALLERY #5	408.96	408.93	408.26	Section of the sectio
TRI-GALLERY #6	405.92	405.98	405.31	



SYSTEM #1

	T	E.	IM	/ERT
	@ STAND PIPE END	@ DIST. PIFE END	IN	out
1st SEFTIC TANK	Allante	and the same of th	416.45	416.27
2nd SEPTIC TANK	, some	an wer	416.24	416.15
DISTRIBUTION BOX	aptings	-9A0081	416.00	415.73
TRI-GALLERY #1	416.26	416.32	415.65	And the state of t
TRI-GALLERY #2	416.15	416.07	415.40	10000
TRI-GALLERY #3	415.59	415.63	414.96	*****
TRI-GALLERY #4	411.90	412.04	411.37	proses
TRI-GALLERY #5	408.94	408.96	408.29	should
TRI-GALLERY #6	405.91	406.00	405.33	

1st SEPTIC TANK
2nd SEPTIC TANK
DISTRIBUTION BOX
TRI-GALLERY #1
TRI-GALLERY #2
TRI-GALLERY #3
TRI-GALLERY #4
TRI-GALLERY #5
TRI-GALLERY #6
$b_{ij} = (a_{ij} + a_{ij} + $

9456-5 29 WESTCHESTER AVE



Westchester County Department of Health Bureau of Environmental Quality

WCDH File: PR 2007-13 Municipality: POUND RIDGE	
New System "A"-Serving Bldg. 1 Former Permit # PR2006-01	
Separate Sewage System Private Water Supply Private Water Supply	Commercial
CERTIFICATE OF CONSTRUCTION COMPLIANCE:	
Watershed Basin : ST	TAMFORD
Property Address: 29 WESTCHESTER AVENUE Section: 9	Block: 9456
Owner Last Name: AHOME First Name: Lot: 5A	R.S. Lot:
Owner's Address: 185 KISCO AVENUE, MT. KISCO, NY 10549	
Separate Sewage System to Consist of:	
48" x 18" Flow Diffusors	
Septic Tank Size: 1500 Gallons Trench Length: 216 Lin. Ft. X Trench Width:	72 Inches
Other Requirements: 1250 gal holding tank, recirculation & pump chamber w/ 1/2 hp Pump - p	
Building Type: Senior Housing # of Bedrooms ** Date Permit Iss	-
** 6 Suites w/ Max. 8 Occupants Erosion Control (EC) Completed Yes	□EC Waived
Other Requirements: Advantex AX-20 filter have not been required or approved by the WCH	ID.
	100110 1: 1: " 392
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio	/CDH Septic License # 392
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio Water Supply:	/CDH Septic License # 392
	/CDH Septic License # 392
Water Supply:	/CDH Septic License # 392 NYDEC Reg. #
Water Supply: ☐ Private Water Supply ☐ Public Water Source: Existing Well Well Driller (WD) Company Name:	NYDEC Reg. #
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed.	NYDEC Reg. #
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health.	NYDEC Reg. #
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: 11 18 Certified by P.E. License #: Any person occupying premises served by the above system(s) shall promptly take such action as may	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: // / 8 Certified by: P.E. License #: Any person occupying premises served by the above system(s) shall promptly take such action as may correction of any unsanitary conditions resulting from such usage. Approval of the separate sewerages as soon as a public sanitary sewer becomes available and the approval of the private water supply shall.	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the system shall become null and void become null and void when a
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: // / // // // // // // // // // // //	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the system shall become null and void become null and void when a the judgment of the Commissioner one under the supervision of a
Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: I certify that the system(s) as listed serving the above premises were constructed as shown on the plans (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, the Westchester County Department of Health. Date: // / 08	NYDEC Reg. # s of the completed work and the permit issued by 076296 be necessary to secure the system shall become null and void become null and void when a the judgment of the Commissioner one under the supervision of a
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PUMP VOLUME:

9.77 gal/in x 21.5 in =

210 gal/cycle

SYSTEM TESTED ON 10/30/08 WITH WCHD.

A 'B' - BUILDING 2 - WCHD Permit # PR2007-14 XISTING SSDS UNDER WCHD 8-13-79 APPROVAL

GAL. PRECAST CONCRETE SEPTIC TANK

EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL.

DA, DISTRIBUTION BOX

GAL PRECAST CONCRETE HOLDING TANK

IONAL IMPROVEMENTS:

NTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD)

SYSTEM "B"

PUMP CHAMBER - VOLUME 215 GALLONS/CYCLE

PUMP CHAMBER SIZE

43' 🗙 70

CAPACITY:

20.9 cf/h 1.74 cf/in 13.02 gal/in

PUMP OF CLE DEPTH:

16.5"

PUMP VOLUME:

13.02 gal/in x 16.5 in =

215 gal/cycle

SYSTEM TESTED ON 10/30/08 WITH WCHD.



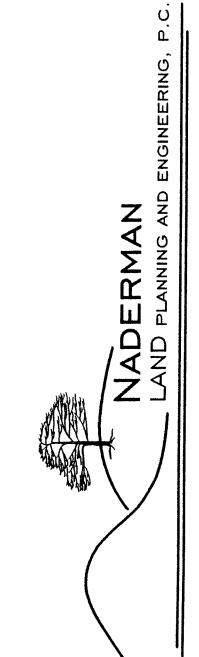
4" WCHD PERMIT # PR2007-13
3" WCHD PERMIT # PR2007-14

1	REV. EXIST. WELL	11/17/08
No.	Revision/Issue	Date

914.245.5403 914.962.5963

tē.:

bgn@naderman.com



3799 nelson ave. box 7 jefferson valley, ny 10535

A - HOME SCOTTS RIDGE DEVELOPMENT

29 WESTCHESTER AVENUE

TOWN OF POUND RIDGE

WESTCHESTER CO., NY

"AS-BUILT"

RECORD PLAN SUBSURFACE SEWAGE DISPOSAL SYSTEM

Project	5349	Sheet
Date	11-07-08	RP-1A
Scale	I"= 30'	

location based upon a survey

e upon field inspection and

of the new SSTS nor to remain the new SSTS.

of the proposed will nor within 200' the general line of drainage from

with the Rules and Regulations for rface Sewage Treatment Systems

uction of the OWTS and certifies its plans.

1 Basin.

XO feet of the new SDS.

NOTES

1.) APPLICANT/ OWNER: A - HOME

ADDRESS: 185 KISCO AVE., SUITE 4, MOUNT KISCO, NY 10549
PROPERTY LOCATION: 29 WESTCHESTER AVE., POUND RIDGE, NY 10576

TAX MAP DESIGNATION: SHEET: SEC. 9 BLK. 9456 LOT 5A

MAX. 8 OCCUPANTS X 75 GPD/ OCCUPANT = 600 GPD DESIGN FLOW/ BLDG.

5.) THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL CONSIST OF THE FOLLOWING IMPROVEMENTS:

SYSTEM 'A' - BUILDING 1 - WCHD Permit # PR2007-13

216	L.F., 48" WIDE FLOW DIFFUSOR LEACHING CHAMBER
1500	GAL. PRECAST CONCRETE SEPTIC TANK
1	EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 210 GAL
1	EA, DISTRIBUTION BOX
1000	GAL. PRECAST CONCRETE HOLDING TANK

ADDITIONAL IMPROVEMENTS:

ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD) 18" - 24" ROB FILL WITHIN PRIMARY AREA 'A'

SYSTEM "A"

PUMP CHAMBER - VOLUME 210 GALLONS/CYCLE

PUMP CHAMBER SIZE: 37" x 61"

CAPACITY:

15.67 cf/ft

1.3 cf/in 9.77 gal/in

PUMP CYCLE DEPTH:

21.5"

PUMP VOLUME:

9.77 gal/in x 21.5 in =

210 gal/cycle

SYSTEM TESTED ON 10/30/08 WITH WCHD.

SYSTEM 'B' - BUILDING 2 - WCHD Permit # PR2007-14 EXISTING SSDS UNDER WCHD 8-13-79 APPROVAL

GAL. PRECAST CONCRETE SEPTIC TANK

1
EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL.

-EA. DISTRIBUTION BOX

GAL PRECAST CONCRETE HOLDING TANK

ADDITIONAL IMPROVEMENTS:

ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD)

PUMP CHAMBER - VOLUME 215 GALLONS/CYCLE

PUMP CHAMBER SIZE.

43' 70"

CAPACITY:

20.9 cf/h 1.74 cf/in 13.02 gal/in

PUMP CYCLE DEPTH:

16.5"

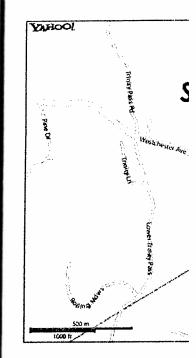
PUMP VOLUME:

13.02 gal/in x 16.5 in =

215 gal/cycle

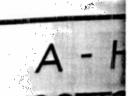
SYSTEM TESTED ON 10/30/08 WITH WCHD.

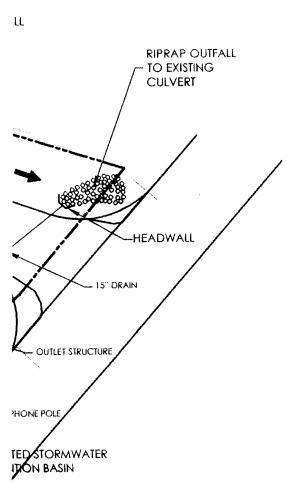
UNAUTHORIZED ALTER THIS DRAWING IS A VI OF THE NEW YORK STA

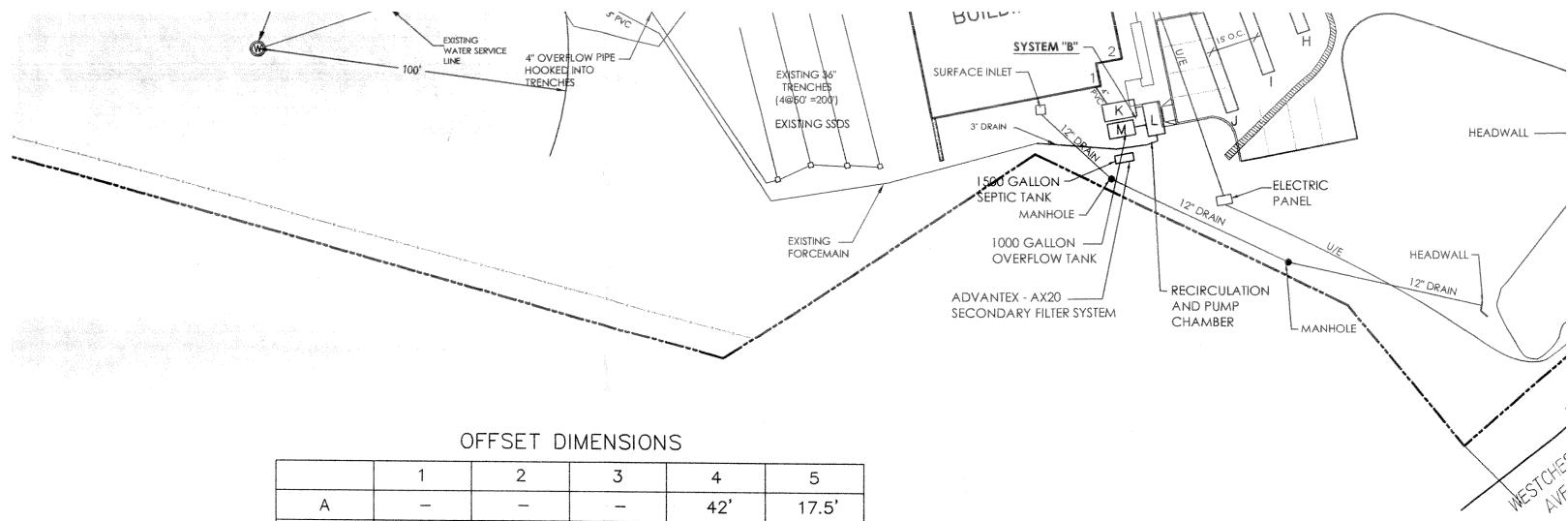


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	REV. EXIST.
No.	Revis



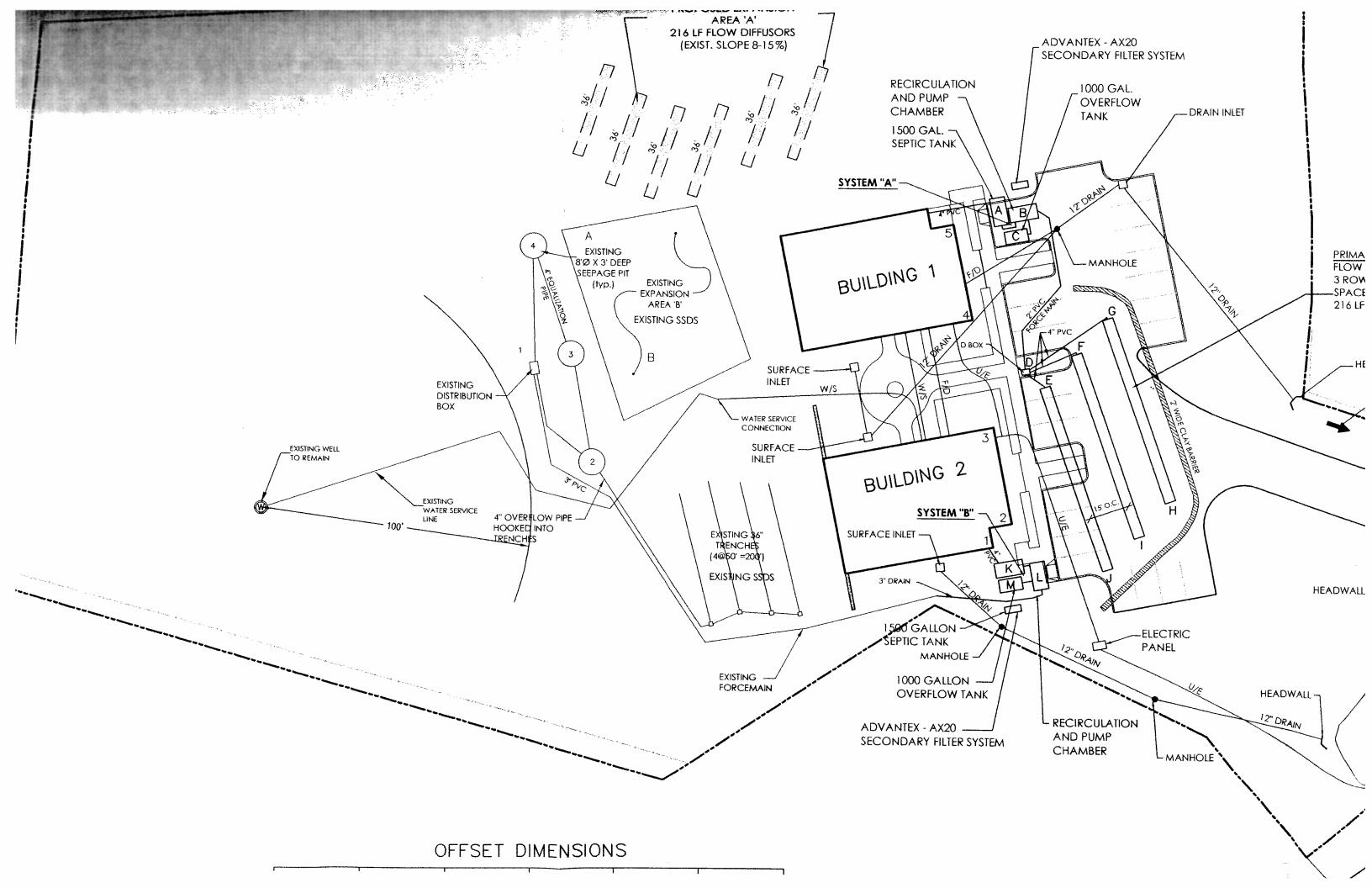






	1	2	3	4	5
Α	****	99944b	No. of the second	42'	17.5'
В				44.5'	26'
С	-		, encodes	35.5'	23.5'
D	********	*****	24'	27.5	
E		53.5'	24.5	***	****
F	-	68'	40.5		
G	ounder	81.5'	56'		
Н		61.5'	74'	***************************************	****
	- Alexandria	49'	68'	State Market	Name of the last o
J	,	40'	67.5'		
K	10'	17'	-	-500400	
L	20'	22'	-	-	***************************************
М	15.5'	23'			



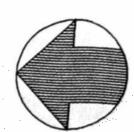


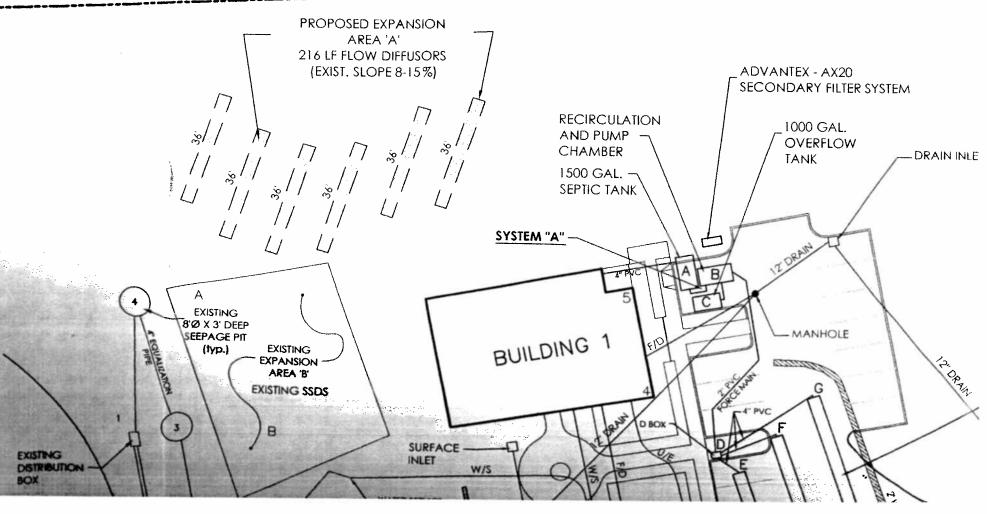
Westchester ov.com

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality

PERMIT NUMBER: Pt. 2007-13

Name: Jan Araste, Attorne Municip Description: New 5575 To Serve C	nality: Pomo Kily
MAX FLON GODGED	
# of Sheets:	provisions of Chapter A.I., Section 873.708.1 Spect to the provisions ed this date.
Reviewed by:	i
neviewed by.	Date
Recommended by:	Date Date







Westchester County Department of Health Bureau of Environmental Quality

WCDH File: PR 2007-14 Municipality: POUND RIDGE System "B" Existing - Serving Bldg. 2
See PR73-2 & PR2006-02
Separate Sewage System Private Water Supply Residential Commercial
CERTIFICATE OF CONSTRUCTION COMPLIANCE: Watershed Basin : STAMFORD
Property Address: 29 WESTCHESTER AVENUE Section: 9 Block: 9456
Owner Last Name: AHOME First Name: Lot: 5A R.S. Lot: -
Owner's Address: 185 KISCO AVENUE, MT. KISCO, NY, 10549
Separate Sewage System to Consist of:
Septic Tank Size: 1500 Gallons Trench Length: *** Lin. Ft. X Trench Width: *** Inches ***Exist. Pits & trenches/Ref/WCHD Permit PR73-2
Other Requirements: New 1250 gal holding tank, recirculation & pump chamber w/ 1/3 hp pump-pump dose 215 gal/cycl
Building Type: Senior Housing # of Bedrooms *** Date Permit Issued: 8-23-2007 **6 Suites w/ Max.8 occupants
Erosion Control (EC) Completed Yes
Other Requirements: Advantax AX-20 filters have not been required or approved by the WCHD.
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392 Water Supply:
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392 Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: NYDEC Reg. #
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392 Water Supply: Private Water Supply Public Water Source: Existing Well
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392 Water Supply: Private Water Supply Public Water Source: Existing Well Well Driller (WD) Company Name: NYDEC Reg. # certify that the system(s) as listed serving the above premises were constructed as shown on the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, and the permit issued by the Westchester County Department of Health. Date: 1/1/08 Certified by: 076296
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392 Water Supply: Private Water Supply Public Water Source: Existing Well NYDEC Reg. # I certify that the system(s) as listed serving the above premises were constructed as shown or the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, and the permit issued by the Westchester County Department of Health.
Separate Sewage Contractor (SSC): Giovanni Battista Apollonio WCDH Septic License # 392 Water Supply: Private Water Supply Public Water Source: Existing Well NYDEC Reg. # I certify that the system(s) as listed serving the above premises were constructed as shown on the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regulations plans filed on the permit issued by the Westchester County Department of Health. Date: 11 7 8 Certified by: P. L. Liense # 076296 Any person occupying premises served by the above system(s) shall promptly take such actions a graph news rry to secure the correction of any unsanitary conditions resulting from such usage. Approval of the senaral severes system shell become null and void as soon as a public sanitary sewer becomes available and the approval of the private was such actions as a public sanitary sewer becomes available and the approval of the private was such actions as a public senitary sewer becomes available and the approval of the private was such actions as a public senitary sewer becomes available and the approval of the private was such actions as a public senitary sewer becomes available and the approval of the private was such actions as a public senitary sewer becomes available and the approval of the private was such actions and actions are subject to modification or change when in the indigement of the Commissioner of Health, such revocation, modification or change is necessary, said modification or change shall be done under the supervision of a licensed Professional Engineer or Registered Architect. With proper maintenance the systems can be expected to function satisfactorily
Water Supply: Private Water Supply Public Water Source: Existing Well

•	9.77 gal/ln x 21.5 in = 210 gal/cycle
YSTEM TESTED ON 1	0/30/08 WITH WCHD.
	CHD Permit # PR2007-14 WCHD 8-13-79 APPROVAL
GAL, PRECA	ST CONCRETE SEPTIC TANK
EA. CIRCULA	ITION & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL.
GAL. PRECA	ST CONCRETE HOLDING TANK
NAL IMPROVEMENTS	S: RY FILTER SYSTEM (Not Required or Approved by WCHD)
YSTEM "B" UMP CHAMBER - VC	DLUME 215 GALLONS/CYCLE
UMP CHAMBER SIZE	₹ 43" x 70"
'APACITY:	20.9 cf/ft 1.74 cf/in 13.02 gal/in
UMP CYCLE DEPTH:	16.5"
	13.02 gal/in x 16.5 in =

UMP YCLE DEPTH:

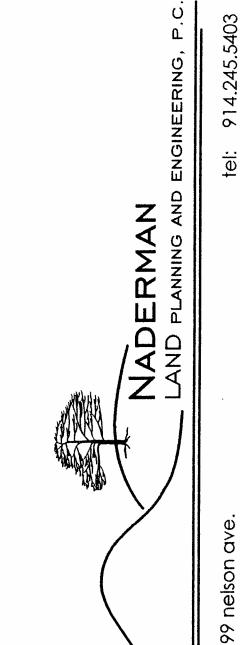
21.5"

YSTEM TESTED ON 10/30/08 WITH WCHD.



WCHB PERMIT # PR2007-13
WCHD PERMIT # PR2007-14

•	1	REV. EXIST. WELL	11/17/08
	No.	Revision/Issue	Date



3799 nelson ave. box 7 jefferson valley, ny 10535

914.962.5963

ť:

e: bgn@naderman.com

A - HOME SCOTTS RIDGE DEVELOPMENT

29 WESTCHESTER AVENUE

TOWN OF POUND RIDGE

WESTCHESTER CO., NY

RECORD PLAN SUBSURFACE SEWAGE DISPOSAL SYSTEM

Project	5349	Sheet
Date	11-07-08	RP-1B
Scale	1"= 30	

inspection and

4.

SSTS nor to remain
3.

Dosed will nor within 200'
I line of drainage from

es and Regulations for ige Treatment Systems

e OWTS and certifies its

e new SDS.

RIPRAP OUTFALL
TO EXISTING
CULVERT

HEADWALL

15" DRAIN

'ATER

NOTES A - HOME I.) APPLICANT/ OWNER: _ 185 KISCO AVE., SUITE 4, MOUNT KISCO, NY 10549 PROPERTY LOCATION: 29 WESTCHESTER AVE., POUND RIDGE, NY 10576 TAX MAP DESIGNATION: SHEET: SEC. 9 BLK. 9456 LOT 5A 4.) THE DESIGN OF THE PROPOSED SUBSURFACE SEWAGE DISPOSAL AREA 'A' IS BASED ON A SOIL PERCOLATION RATE OF _______ MIN./INCH. AND A PROP. 6 SENIOR RESIDENT SUITES/ BUILDING. MAX. 8 OCCUPANTS X 75 GPD/ OCCUPANT = 600 GPD DESIGN FLOW/ BLDG. 5.) THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL CONSIST OF THE FOLLOWING IMPROVEMENTS: SYSTEM 'A' - BUILDING 1 - WCHD Permit # PR2007-13 L.F. 48" WIDE FLOW DIFFUSOR LEACHING LAMBER GAL, PRECAST CONCRETE SEPTIC TANK 1500 EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 210 GAL. EA, DISTRIBUTION BOX GAL, PRECAST CONCRETE HOLDING TANK 1000 ADDITIONAL IMPROVEMENTS: ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD) 18" - 24" ROB FILL WITHIN RRIMARY KEA 'A' SYSTEM "A" PUMP CHAMBER - VOLUME 210 GALLONS/CYCLE 37" 261" PUMP CHAMBER SIZE CAPACITY: 15.67 cf/ 1.3 cf/in 9.77 gal/in PUMP LYCLE DEPTH: 21.5" $9.77 \text{ gal/in} \times 21.5 \text{ in} =$ PUMP VOLUME: 210 gal/cycle SYSTEM TESTED ON 10/30/08 WITH WCHD.

SYSTEM 'B' - BUILDING 2 - WCHD Permit # PR2007-14 EXISTING SSDS UNDER WCHD 8-13-79 APPROVAL

1 GAL. PRECAST CONCRETE SEPTIC TANK

1 EA. CIRCULATION & PUMP CHAMBER/W PUMP - PUMP DOSE 215 GAL.

-- EA, DISTRIBUTION BOX

1000 GAL. PRECAST CONCRETE HOLDING TANK

ADDITIONAL IMPROVEMENTS:

ADVANTEX AX-20 SECONDARY FILTER SYSTEM (Not Required or Approved by WCHD)

PUMP CHAMBER - VOLUME 215 GALLONS/CYCLE

PUMP CHAMBER SIZE: 43" x 70"

CAPACITY:

20.9 cf/ft 1.74 cf/in 13.02 gal/in

PUMP CYCLE DEPTH:

16.5"

PUMP VOLUME:

13.02 gal/in x 16.5 in =

215 gal/cycle

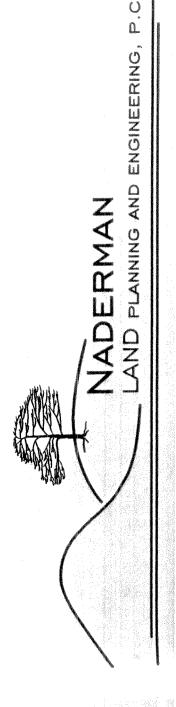
SYSTEM TESTED ON 10/30/08 WITH WCHD.

THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUC

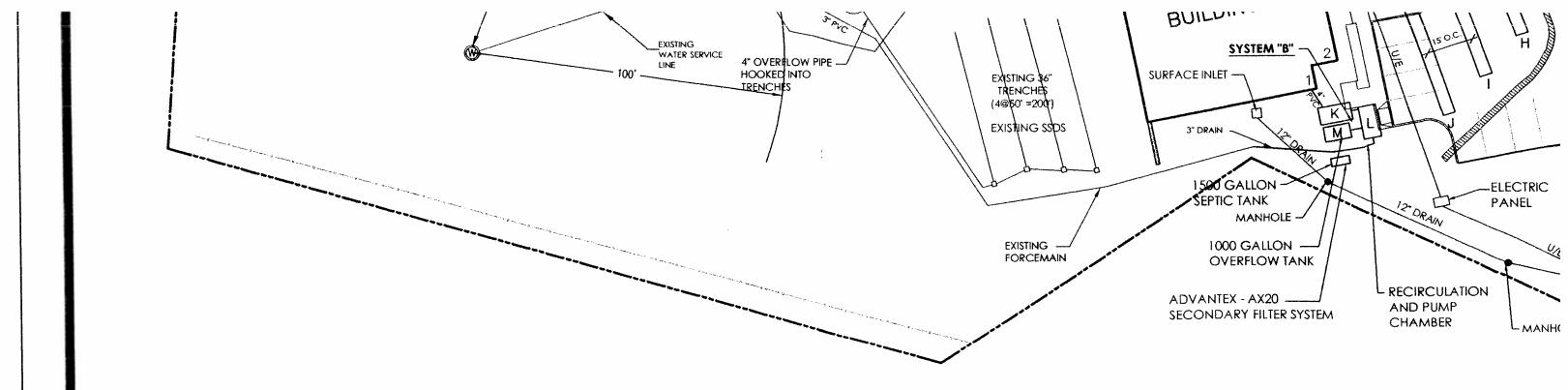


1 REV. EXIST. WELL

No. Revision/Iss



A - HOI SCOTTS R



OFFSET DIMENSIONS

	1	2	3	4	5
Α		~		42'	17.5'
В			·	44.5'	26'
С			******	35.5'	23.5'
D			24'	27.5	
Е		53.5'	24.5'		
F		68'	40.5'		
G		81.5'	56'		
Н		61.5'	74'	_	
1		49'	68'		_
J		40'	67.5'		
К	10'	17'	-		
L	20'	22'	_		_
М	15.5'	23'			

PLAN SCALE: I" = 30

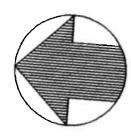
Reviewed by: Date			The subject property
Recommended by Date			There are no reservoi
Accepted by Gell Rix Date			
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ه من المستقد في مستقد في مستقد في مستقد بن في المستقد في مستقد في المستقد في من المستقد في المستقد في من المستقد بد م	PROPOSED EXPANSION AREA 'A' 216 LF FLOW DIFFUSORS		
	(EXIST. SLOPE 8-15%)	ADVANTEX - AX20 SECONDARY FILTER SYSTEM	
		RECIRCULATION AND PUMP — 1000 GAL. CHAMBER TANK 1500 GAL. — DRA	IN INLET
	SY.	SEPTIC TANK	
		THE PARTY TO SERVICE AND ADDRESS OF THE PARTY TO SERVICE AND ADDRE	
	A EXISTING 8'Ø X 3' DEEP SEEPAGE PIT (fvp.) EXISTING	BUILDING 1 FOR MANHOLE	PRIMARY AREA '/ FLOW DIFFUSORS 3 ROWS @ 72 LF SPACED 15' OC
	SEEPAGE PIT (typ.) EXISTING EXPANSION AREA 'B' EXISTING SSDS	A PVC F G	216 LF TOTAL
1 EXISTING	SURFACE W/S		HEAD WALL
DISTRIBUTION — BOX	WATER SERVICE CONNECTION	William CCAY BARRIE	
EXISTING WELL TO REMAIN	SURFACE INLET	BUILDING 2	
EXISTING WATER SERVICE LINE HOOK	RELOW PIPE -	SURFACE INLET 1	
IRENC	ED INTO HES TRENCHES (4@50" = 200") EXISTING SSDS	3' DRAIN	HEADWALL
		1500 GALLON ELECTRIC	
		1500 GALLON SEPTIC TANK MANHOLE PANEL PANEL	
	EXISTING — FORCEMAIN	1000 GALLON — OVERFLOW TANK	HEADWALL -
		ADVANTEX - AX20 RECIRCULATION AND PUMP	12" DRAIN

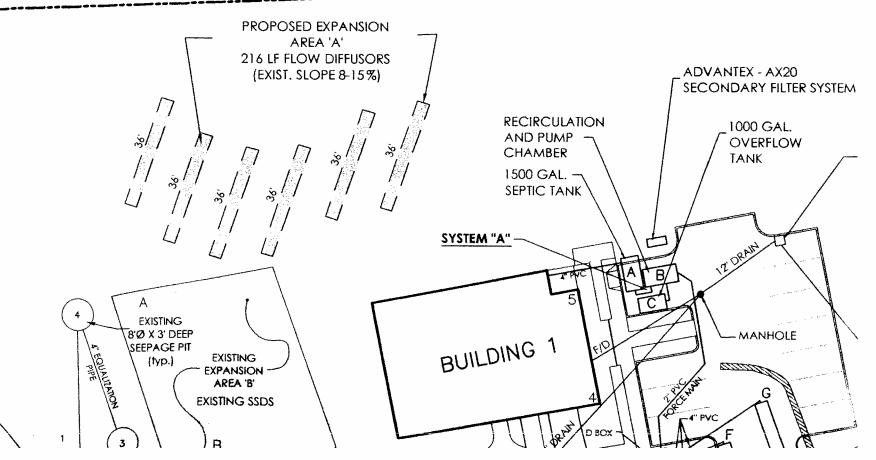
Westchester gov.com

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality

PERMIT NUMBER: PRL007-14

I TOURS.	Municipality: Pormo Rily
Description: SSTS Improvement (New Systectrack + Pump Cham)	+ To sem Britisth
(New Sectic tank + pump Cham)	on) Max flow 600 goo
# of Sheets: one (1)	
Are hereby accepted 5 873, Article VIII, Scottle of the Westchester County of the Certificate of Construction Com	provisions of Chapter VII, Section 873,708.1
	inhance issued this date.
Reviewed by:	Date





WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality 110 So. Bedford Road Mt. Kisco, NY 10549

DESIGN DATA SHEET - SEPARATE SEWERAGE	SYSTEM	FILE NO.
Owner HCG DRYWALL, INC.	Address/O DUN	WOCOLE ST. SCANSOME
Located at (Street) WESTCHESTON R	WE Sec	9 Block9456 Lot 5A
(Indicate nearest	cross St.)	

Municipality Pouro RIGE Watershed STAMFORD

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

Run Date: 11/4/00

PRIMARY AREA Presoak Date: 11/3/00

HOLE #		*	CLOCE	C TIME		p	ERCOLATION	MARYA
Hole Number	Run		p o p	Elapse Time Min.	Depth From Gro Start Inches	to Water d Surface Stop Inches	Water Level Drop In Inches	Soil Rate Min/In Drop
/	1	3:23	3:53	30	27	1 29	2	15
	2	3:55	4:25	30	1 27	28/4		17./
de d	3	4:26	4:56	30	27	2834	13/4	17-1
displayed and a second a second and a second a second and	4		and months on pa			1		
	5							
2	1	3:25	3:56	30	76	28/4	24	/3.3
-	2	3:57	4:27	30	26	28	2	15-0
to description to the second	3	4:28	4:58	30	26	28	2	15.0
as manager de	4							
	5		The Statement in					
3	1	3: 30	3:57	17	275	303	3	5. 7
The specialists and	2	3:50	4:13	23	27/4		3.44	7./
***	3	4:14	4:36	22 !	27/2		3	7.3
	4		The state of the s	P. I	To the state of th			
	5	and the same of th			200			
tes:		1					may 6-Nm	

DEEP

1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

²⁾ Depth measurements to be made from top of hole. DO NOT REPORT INCREMENTS OF LESS THAN ONE INCH.

	,	_	\sim	S PRIMARY ARE,
DEPTH	HOLE NO/	HOLE NO.	HOLE NO. 3	HOLE NO.
G.L.	OLD PKG LOT		0LD P/46	our plus
6 "	SUBBINSE GANVEL	SUBBASE GRAVEL	SUBBASE	5 WB B M3 13
0		GAMELLY	GRAVEL	CHNEL
12"	LOAM FILL	LOAM FILL	- 3 MMS	SANDY LOAM
18"	d)		1,	
	very		Limit	
24"	pocky	With the state of	BOULDERS	V
30"	Commence of the control of the contr			FINE Smus
36"				
				LMGE
42"				5 702/85
48"				
54"				Control of the Contro
		MOTTLING		
60"		<u> </u>		Marin Control of the
66"	pock		<u> </u>	
		/	FINE DENSE	
プラ リ	MOCK		1110	
72"	20ck	Enouno WATER	SAND	
72"	pock_	GROUNDWATER SEEPME		
78"		SEEPME		
78" 84" WAS GROUINDICATE INDICATE DEEPTEST	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WA S MADE BY BARRY G W/ ED OELAWE e Used/6-70 Min	SEEPME OUND WATER IS ENC ATER LEVEL RISES - WAVERMAN P. Y - WCHO DESIGN 1/1" Drop: S.	OUNTERED 78" OUNTERED 78" AFTER BEING ENCOUN E. DATE OF DEEP TES D. Usable Area Pro	ovided 9, 6005.F.
78" 84" VAS GROUINDICATE INDICATE DEEPTEST	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WA S MADE BY BARRY G W/ ED OELAWE e Used/6-70 Min	SEEPME OUND WATER IS ENC ATER LEVEL RISES - WAVERMAN P. Y - WCHO DESIGN 1/1" Drop: S.	OUNTERED 78" OUNTERED 78" AFTER BEING ENCOUN E. DATE OF DEEP TES D. Usable Area Pro	ovided 9, 6005.F.
78" 84" WAS GROUINDICATE INDICATE DEEPTEST	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY OF W/ EO OF CAMB e Used/6-70 Min edrooms Seption 7 BORN UNITS	SEEPMEE SEEPMEE OUND WATER IS ENCATER LEVEL RISES - WOEND DESIGN A/1" Drop: S. Tank Capacity - 48 X18" FO	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Soil Rate (3- Absorption of Beauty Company) (ame Beauty Company)	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY G W/ FO OFUND e Used/6-70 Min edrooms 6 Septic 2 BORY UNITS On Area Prov. by 32 PRIMARY ENERS	SEEPME OUND WATER IS ENCATER LEVEL RISES - WOOLO DESIGN 1/1" Drop: S. Tank Capacity - 48 × 18" FO OL.F.× 100 (M) NOOL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Soil Rate (3- Absorption of Beauty Company) (ame Beauty Company)	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY G W/ FO OFUND e Used/6-70 Min edrooms 6 Septic 2 BORY UNITS On Area Prov. by 32 PRIMARY ENERS	SEEPME OUND WATER IS ENCATER LEVEL RISES - WOOLO DESIGN 1/1" Drop: S. Tank Capacity - 48 × 18" FO OL.F.× 100 (M) NOOL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Soil Rate 3- bsorptic	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY OF W/ EO OF CAMB e Used/6-70 Min edrooms Seption 7 BORN UNITS	SEEPMEE OUND WATER IS ENCATER LEVEL RISES OUND WATER IS ENCATED BESIGN A/1" Drop: S. Tank Capacity OL.F.X700 C.F.X700 SEAL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST. Goil Rate (3-bsorptice) Jame BA	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BATCH G W/ EQ OFUND e Used/6-70 Min edrooms 6 Septic 2 BORN UNITS on Area Prov. by 32 PALMANY AND A PALMANY AND A 1799 NELSON AVE	SEEPMEE OUND WATER IS ENCATER LEVEL RISES NOOHO DESIGN (1" Drop: S. Tank Capacity 18" X18" FO OL.F.X7" SEAL SEAL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUN D. Usable Area Pro SCO Gals. Masons OW DIFFUSORS	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST Soil Rate (3- bsorptic MITHIM ddress 3	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY OF W/ EO OFUND e Used/6-20 Min edrooms 6 Seption 2 BORN UNITS ON Area Prov. by 32 PRIMARY ENERS 1799 NELSON MIS EFFERSON V MIS Ser County Health D	SEEPMEE OUND WATER IS ENCATER LEVEL RISES OUND WATER IS ENCATED BESIGN OUND DESIGN OUT TOOP: S. TANK Capacity OUT TOOP: S. OUT TOOP: S. SEAL OUT TOO AND NOW OUT TOOP SEAL OUT TOOS SEAL	OUNTERED 78" OUNTERED 78" AFTER BEING ENCOUNTED. DATE OF DEEP TES D. Usable Area Pro SOO Gals. Masons OUNTERED. Other OUNTERED. Other PUND FORK PUND ATURE	ovided 9, 600 5.F. Ty Metal
78" 84" WAS GROUINDICATE INDICATE DEEPTEST Soil Rate (3- bsorptic MITHIM ddress 3	NDWATER ENCOUNTERED LEVEL AT WHICH GRO LEVEL FOR WHICH WAS S MADE BY BARRY & W/ EO OEUME e Used/6-70 Min edrooms & Septic 2 BORN UNITS ON Area Prov. by 32 PRIMARY BUELA 1799 MELSON MIS eer County Health D Approved S	SEEPMEE OUND WATER IS ENCATER LEVEL RISES OUND WATER IS ENCATED BESIGN OUND DESIGN OUT TOOP: S. TANK Capacity OUT TOOP: S. OUT TOOP: S. SEAL OUT TOO AND NOW OUT TOOP SEAL OUT TOOS SEAL	OUNTERED 78 OUNTERED 78 AFTER BEING ENCOUNTED DATE OF DEEP TES D. Usable Area Production of Diffusor's distribution of the Diffusor's distribution of th	ovided 9, 600 5.F. Ty Metal

WESTCHESTER COUNTY DEPARTMENT OF HEALTH Bureau of Environmental Quality 110 So. Bedford Road Mt. Kisco, NY 10549

DESIGN DATA SHEET - SEPARATE SEWERAGE	SYSTEM	FILE NO.
Owner HCG DRYWALL, INC.	Address/O DUN	WOODIE ST. SCRUSDME
Located at (Street) WESTCHESTER 1	Sec Sec	9 Block9456 Lot 5A
(Indicate nearest	cross St.)	

3 4 5

Notes:

Perc test done by: Brany 6 - MADERIAN, P.S. 1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted

for review.

2) Depth measurements to be made from top of hole. DO NOT REPORT INCREMENTS OF LESS THAN ONE INCH.

	Munici	palit	Y_ <u>Po</u>	220	1406	E	Water	shed_57814/	5020
	so	IL PE	RCOLATIO	ON TEST	T DATA REQU	UIRED TO BE	SUBMITTED	WITH APPLIC	ATION
	Presoa	k Dat	e: <u>/</u> 2/	20/0	12	Run I	ate: <u>/</u> 2	WITH APPLIC	Marine and a second
	HOLE #			CLOCK	TIME		7	ERCOLATION	ANSION ARE
	Hole Number		 Start	Officials designate phonogen	Elapse Time Min.		O Water Surface Stop	Water Level Drop	Rate Min/In
36 ". DEEP	4	1	10:36	11:24	28	76	29/4	3/2	8.6
OFEP	40-00-00-00-00-00-00-00-00-00-00-00-00-0	2	11: 25	11:52	27	76	29	3	8.6 9.0 9.6
		3	11:53	12:02	29	76	29	3	9.6
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	the executions the	2					To the second		
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		5		100		The second secon			THE CONTRACTOR AND A CO
	of state of the st	1						· E	

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

*	BUSCHIFFION	OF SOILS ENCOUNT	EPED IN TEST HOLE	S
DEPTH		HOLE NO.		HOLE NO. 8
G.L.	21611 WOODS	416HT WOODS	4611 WOODS	216HT WOODS
6"	7018516	TOPSOIL	TOPSO16	
12"	5 ANDY LORM 50NB 51473	SANDY LORM SOMB SILTS		TOPSOIL SANDY LOAM
18"			1	30HB 31273
24"	SANDS/GRAVEL	3 Anos/GRAVEL		3 ANOS/GRANELS
30"		-J	MEDIUM SANDS GRAVELLY	JANUS) GRAVELS
36"		VERY ROCKY		
42"	VERY ROCKY			
48"	GRAVELLY			1
54"				
60"			VERY	
66"				
72"				
78"				
84"				V
INDICATE INDICATE	DWATER ENCOUNTERED LEVEL AT WHICH GROW LEVEL FOR WHICH WA' MADE BY BARRY & MADE BY BRANKY	UND WATER IS ENCOUPER LEVEL RISES AS - WAR ENGLAND OF	nman marker	TERED TS 11/19/02
Soil Rate	Used/6-70 Min,		Usable Dres Dre	
No. of Be	drooms 6 Septic	Tank Capacity 1,50	OGals. Masonry	y≚ Metal
Name /3/6	PRIMARY ENER,	2mm/P3 Signat	PUMP-BOMP O	7:5E 314 EMS.
	799 NELSON MYS-1		The LX	No. of the second
<u> </u>	EFFERSON VINLE	<u>1. 14.7. 10</u> 53.5		· · · · · · · · · · · · · · · · · · ·
Westcheste	or County Health De	partment	A STATE OF THE PARTY OF THE PAR	
Soil Rate	Approvedsq			and the state of t
S.D. 27.6		Date		

9456-55 35 WESTCHESTER AVE

Separate Sewerage Syste	emPrivate Water	Supply /	UNO RIOGE	
TIFICATE OF CONSTRUCTIO	N COMPLIANCE	WCDH File No.	KK.73-12	
ed at WESTCHESTER AV		Section	Block 9956	7- 2- 2- 6- 2- 2- 1- 2- 2- 2- 1- 2- 2- 2- 2-
EMIL DIENSEK		101 Plo 5 /A	loh	grading grading
ate Sewerage System built by SAF SE	PACTYSTEMS INC. Adde	New ROCHELLE	NY.	
Consisting of 7	Gal Manney - s	4-5'0 x 5' De	EP SEEPAGE PITS	· ·
Other requirements / H/	Pump in Pumpert.	ALARM IN BUILDING	Width tren	ich
Supply:Public Supply From		1		
	BORISCHURYK	Stansura		
RESIDENTIAL	Number of Bedrooms	Address Stampono		
Control Completed	全的2000年,1915年,1915年1915年,1915年1915日	Walved		
Requirements				(
that the system(s) as listed serving the above the standards, rules and regulations, plans filed.	e premises we to contain as an intially as sh	own on the plans of the completed work (con	es of which are attached), and in accord	tanca .
[프로그램: N. C.	and the permit saved by the Whichester Co	unty Department of Health.		1
7-18-74	Derritted By	ney anda		
erson occupying premises served by the above usage. Approval of the separate sewerage system he null and void when a public water supply	system(s) shall promptly take such setten as an shall begone mult and which as soon as a p	mey be necessary to secure the correction	of any unsanitary conditions resulting	from
ne null and void when a public water supply action, modification or change is necessary, sa	comes available. Such approvals are subject	to modification or change when, in the judg	ment of the Commissioner of Health.	such
	A CONTRACTOR OF THE PARTY OF TH			
Lug. 16, 1974				-3-
lug. 10,117	William Scumfield of M. D., Commission	oner By Vivcent /L. Leo	me Jan ing	

Westchester County Department of Health Division of Environmental Sanitation

WELL COMPLETION REPORT

is report is to be completed by well driller and submitted to Health Department, together with aboratory report of analysis of water sample indicating water is of satisfactory bacterial sality, before certificate of construction compliance is issued.

	Well construction RULES & REGULATION	to be in accord IS RELATING TO I	lance with Bulle	etin SD-62 R SUPPLIES*	Out
XATION: MUNICIPAL	LITY Pound Ridge r	VY SECT	TON	BLOCK 9456	LOT 5
IL OWNER: MA	Emil Oslensek	Westchester	L Ave Pour	d Ridge NY	
Name		Street Address		City and Town	erkommunikkaalinealaineksiakon-vankaalineksiakonapassiakona ajastiilinki comuuto
	oris Charak	20 Corbo Terr Street Address	Stronforo.	GNN	
N & me		Street Address		City and Town	
CASING DETAILS					
	YIKID TRS		WATER LEVEL sure from land	SCREEN	DETAILS
ingth. 33	Feet or Pumped	6 Hours Stat	<i>y</i>	Feet Make:	
ameter: 6	inches Yield:	When	Bailed		Slot
- V- 0 - 0	nches-liem:	G.P.M. or P	rumped 290	Feet! Length	Ft. Size
na: May Muty A				Diameter	In.
TAL DEPTH OF WELL	, 290 PEET				
		WELL LOG	;		
Depth From	Give description	of formations r	anat sot ad		
round Surface		wite" peniesfole."	OTENTE ATA	Indiana adam A	
	and sand (fine, m cemented, soft, h 27 ft, to 13/ ft	#####################################	COLOR OF MAYAY	5 6 1 mm m m m m m m m m m m m m m m m m	
	27 ft, to 134 ft.	gray granite,	V 2.V. VV 2.	it. line, packet	a, yellow sand
Pt.to / Pt.	· Clay + boul	les			
5 Pt. to 290 Pt.	7/				akkin mengalakan perunaktik di Serun penjanjah pendalah di Konseptak penjanjah sebesah penganapan
Pt.to Pt.	• //	this consideration and the production of the constitution of the c	damonteliske gallekse gjarnumske most most om antelskurft kreet judden om anvånsside utdikksigte deparemment for		
	•				ett priktiment de kontrette i kontrette de kontrette de kontrette kontrette de kontrette de kontrette de kontre
	•				
Ft. to Ft.	8				
Ft.to Pt.					
Pt.to Pt.	•			aarii kaan noon daa tara ayaa saadii baadahaan aan aahaaday oo oo oo ahaa kan araan ayaa ah oo diibba ah oo diibba	ki kiloki kiloki kiloki ki kiloki ki kiloki
Pt.to Pt.				Miller od fan status provins de gelle gant her namelaukrepken yn Miller od statusk de fan status au wester bes	
		Professional Styres and the engineering for every 100 finance restricting part of the Styres and Standard Stand			
te Well Was Comple	eted 3 19	74 Date	of Report	^	
	0		< 1K	Chin A	kookoansuvallaakkooliistöönkäkkussijässassystilijajastiikkijötöliitosiiiniini tuntonuyse, elijass
		weTT	Driller DO	- CRUSHR	

WELL PIT AND PUMP EQUIPMENT DETAILS

Finished Well:	Check	Pit with 4-inc	h Gravity Drain	to Grade	¥°
		Pit with 4-inc	h Gravity Drain	to Basement	
		Pitless Adapte	r - Casing Min.	12 inches above	e grade
		Other: Describ	e		
Pump: Make	Berkele	Type sub	neisible o	apacity 2H.P.	G.P.M. 10
Storage Tank:	Туре	gall.	Capacity		al. (42 Gal. Min.)
		Indicate location sewage disposal sy Also indicate direction with disand sewage disposa	of house, well stem with dista ction of slopes tances to all w l systems withi	and nces. , and m ells — O	

I certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health.

COUNTY	OF WESTCHEST	ER DEPART	MENT OF	HEALTH - D	ivision of 1	Envi r onmenta	al Sanitation
DESIGN	DATA SHEET -	SEPARATE	SEWAGE	SYSTEM	FILE	NO	
Ower E	MIL DOL	ENSEK		Address	RINITY PA	ASS POUR	DO RIDGE N.
							1456Lot P/O 5
	pality Po						
	OIL PERCOLATI	OR TEST DI	TH VEW	TWED TO BE	SUBMITTED :	WITH APPLICA	LTION
Hole Number	CLOCK T	TME		PERCOL	MTON		
	Run No.		Elapse	Depth to	Water	Water Level	PERCOLATION
	Start	Stop	Time Min.	Start	und Surface Stop Inches	Drop in	Soil Rate Min/in.drop
P.	1 9:50	10:10	20		4'-31/2"		5.7
	2 10:11	10132	21	4'-0"	4'-33/8	' 3 ³ /8	6.2
	3						
	4						
	5						
PZ	1/0:00	10:12	12	4'-0"	4-314	3 1/4	3.7
	210113	10:26	ı3	4'-0"	4-31/8	3 1/8	4.1
atiliti e e e e e e e e e e e e e e e e e e	3						
Market Commence of the State of	<u>L</u>						
	5						
P ₃	110103	10:22	19	4'-0"	4'-3"	3	4.3
	210:23	10:43	20	4'-0"	4' 3"	3	6.6
	3						ļ
	L						
	5			- The state of the			
Notes:							

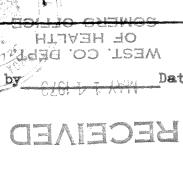
Notes:

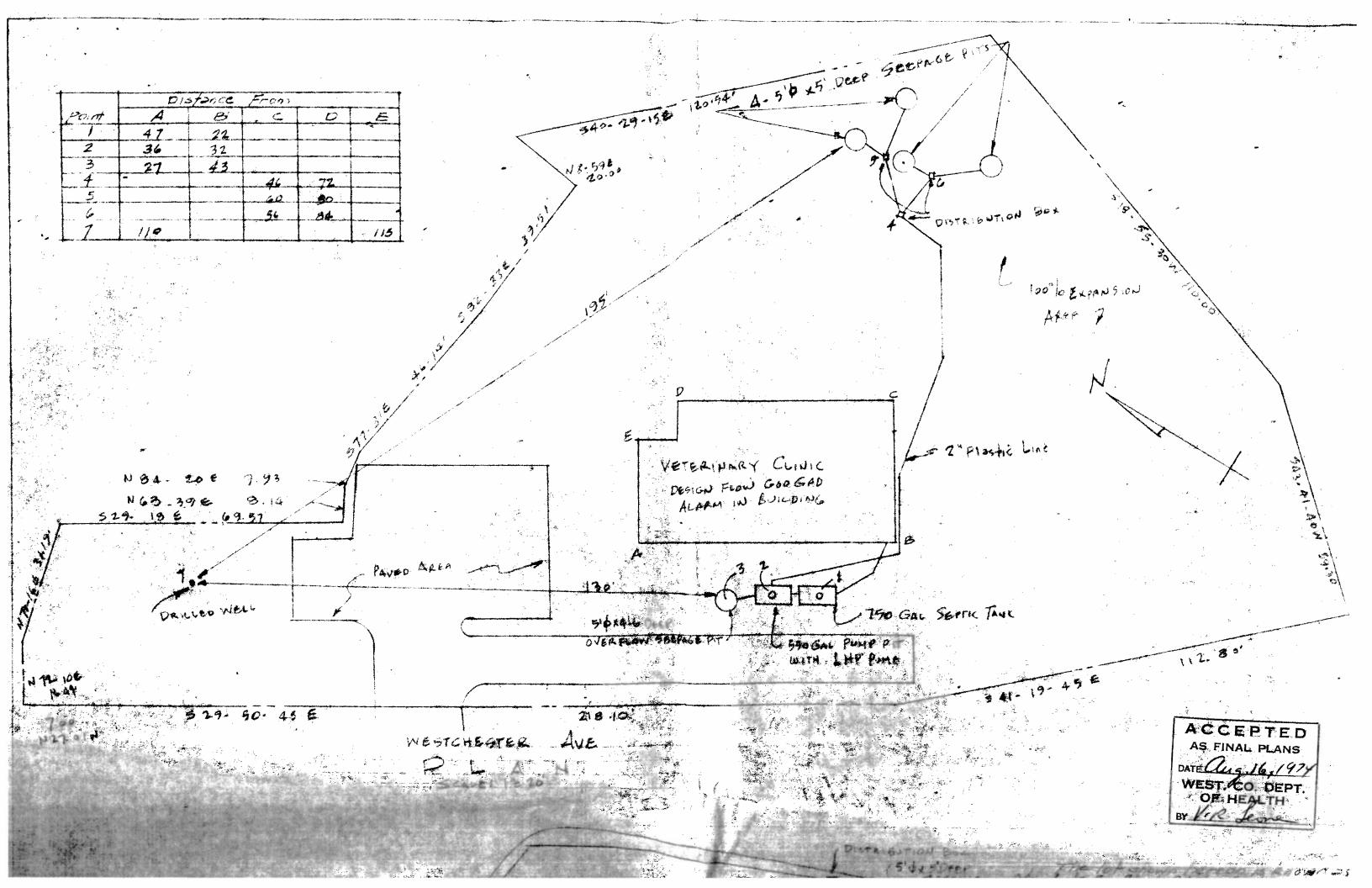
1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.

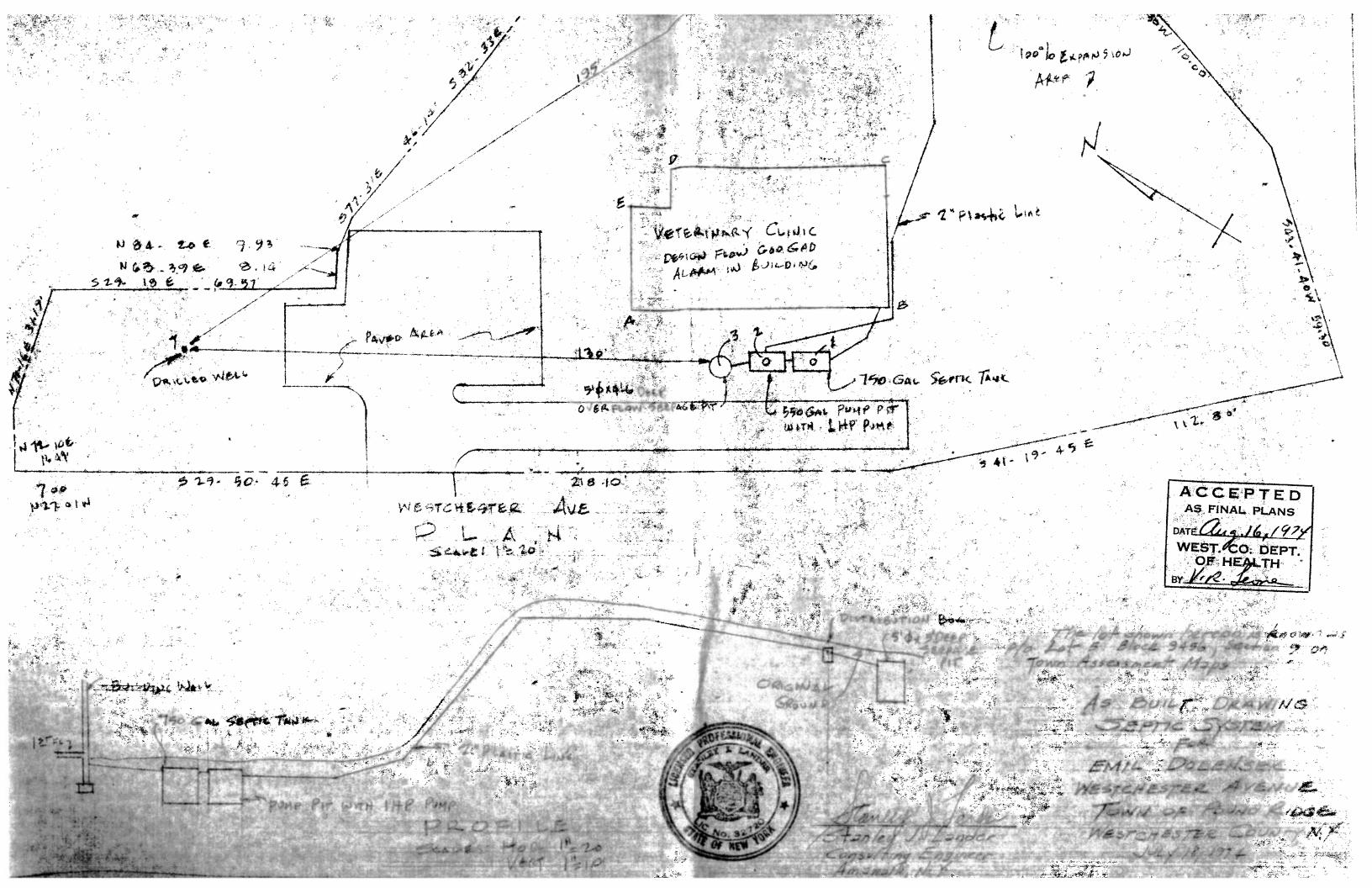
2) Depth measurements to be made from top of hole.

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

DE PIH	HOLE NO. P.	HOLE NO. P. HOLE	NO. P3 HOLE NO.	DEEP HOLE
G.L.	TOPSOIL	TOPSOIL	TOPSOIL	TOPSOIL
6 n	**		<i>§</i> 9	f j
12" E	DAND CLAY MIX	SAND CLAY MIX	SANO CLAY MIX	SAND CLAY MIX
18"	**	/*		//
24"	89	11	* /	(1)
30"	8 6	**	11	1 :
36" ^{<}	DAND SOME STONE	SAND SOME STON	E SAND SOME STONE	SAND SOME STONE
42"	<i>ŧ</i> [<i>n</i>	11
48 n	11	11	11	11
54"	£ \$	11	<i>i i</i>	Łį.
60n		Actually and Company of the Company	Construction of the State of th	11
66 m				6.1
72"				ží.
78 n				H
814 **				<i>F1</i>
INDI		ICH GROUND WATER ICH WATER LEVEL F	RISES AFTER BEING	No WATER ENCOUNTERED 5-3-73
	Data Nasa 10	16 - All Dans	DESIGN	a Provided 5000 5
	part manufacture of	(1 Y)		when death of the control of the con
				ls. Masonry V Metal
Abso	orption Area Prov	ided By L.I DEEP SEEPAGE	F.x24"36"	width trench. Other
Name	7	J. LANDER		Honey Fender.
Add:		X 267	SPAIN C	
		N. Y. 10501 5-2645		
We		Health Department	17	HTJABH RO
	•	Sq. Ft./Gal.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEST. CO. BES
		1-66) (February	18. 1969)	CEGI DI ANTI
~	· - 1 - / 100 10 / 100	+ and (noneman)		







9456-6 27 WESTCHESTER AVE



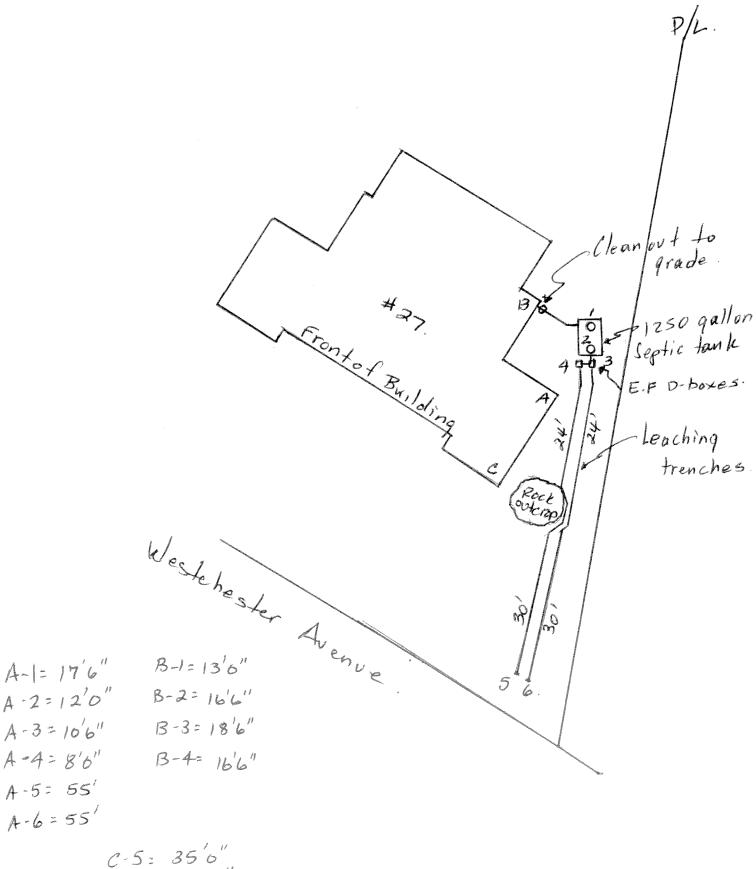
ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REPAIR AND REMEDIATION DATA FORM

Municipality:_			
Property Mailin	ng Address (No. & Street): 27 Western	erer Ap	
Town/ Village:	Pound Ridge Devidere Spyder, LLC	State: NY Zip:	
Owner: <u>Co</u>	devidere Spyder, LLC		
Owner Mailing	Address (No. & Street) (if different): C 0	Steven 1000 71.1 2011	10000
Town/ Village:	New York		11.77.31/
Property Use:	[] Single Family [] Multi-Family [] Industrial 🛛	State: // Zip: //	2/7
	M Other - Describe: Apt Attached	Ant M-Localem	
Othern	· · ·	THE SECTION OF SECTION	
OWTS Reme		WCDH File #:	
wastes or offens	all mean installation, replacement, or expansion of e, or impending failure, resulting in, or that may re- sive material on to the surface of the ground, into a all not include repairs, as defined above, to correct	suit in, the discharge of sewage or domestic	nents to correct wastes or trade body.
	OR		
OWTS Repair	Complete the following information	on.	
Repair shall meatreatment system	an the repair, maintenance, and replacement in Lin	d and in situ; of broken, damaged, or worn o	onsite wastewater
Number of Bedr	ooms 1 Number of Bathrooms: 2		
		The supply type, tubile L	】Well ፟ ✓
Repaired R	Please note below only components that eplaced	it have been repaired or replaced.	
	·		
Control of the Contro	House Sewer or other Solid Pipe(s) Septic Tank#1 Size(gallons): 1250	DRAW BUILDING AN	D LOCATION
	Septic Tank#2: Size (gallons): Junction/Distribution Box(es)	OF WORK PERFORM	ED ON BACK
	Junction/Distribution Box(es)	OF THIS FORM	
	Sewage Pump(s) or other Dosing Equipm Absorption Trench Length 10 8' 6	ment	
	Absorption Trench Length 108' ft. Seepage Pit(s)	X Trench Width 4 ft	
	Galley(s)		
	Gravelless Trench(es)		
pooring.	75-A Alternative System		
E-manufe processing	Other Advanced Alternative System		
and the second	Other System Component(s) - Describe:		
g	Entire System Replaced		
Contractor's Nam	De (print): PAUL S KIADAS	Date Renair/Paradicion C	2/21.
Contractor's Sign	aturé: Paul Skried	Sate Repair/Reinediation Completed:	3/4/12
	The second secon	License No.: 363 ·	
pon completion			
	Westchester County Departn 118 North Bedford Ro	nent of Health- BEQ oad. Rm# 100	

118 North Bedford Road, Rm# 100 Mt. Kisco, NY 10549

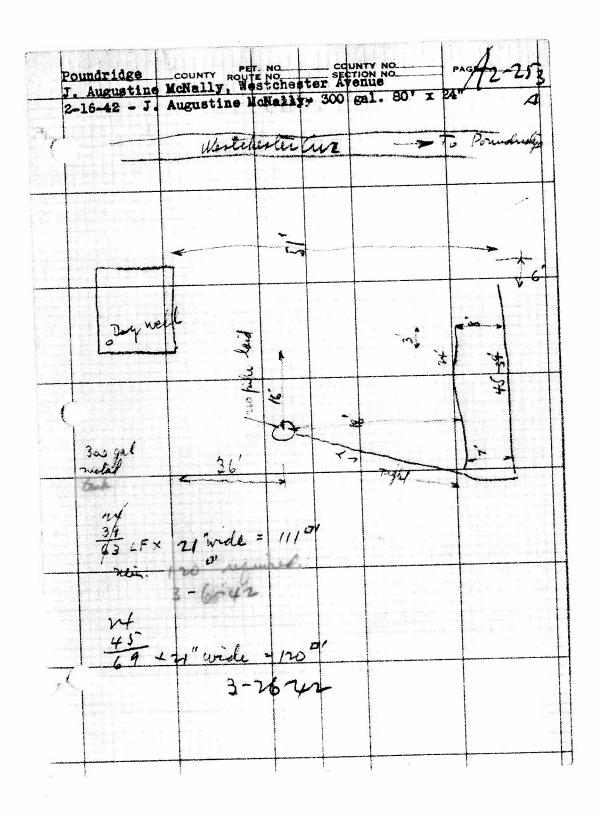
Attn: Patricia Tomello-Adams

Repair File #: REP 1012 - S/(WCDH Staff only)



C-5: 35'0"
C-6: 35'0"

iridge <u>Dat</u>	e: 2-16-42 기기나~
Westchester Avenue	
Block:	Lots
, Augustine Mc Nally	
l bedroom l bath≇oom	
ide: no	Rater
¥: 300 gal.	Material: Masonry
80' x 24"	
sued: 3-27-42	Sketch-Book 2-25
	Block: Augustine Mc Nally same 1 bedroom 1 bathwoom ade: no Y* 300 gal. 80' x 24"



COUNTY BOARD OF HEALTH

EDWIN G. RAMSDELL, M.D., PRESIDENT
NELSON A. ROCKEFELLER, VICE-PRES.
CHARLES C. SWEET, M.D.
MISS RUTH TAYLOR
MISS JANE H. TODD
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J. RUSSELL FOSHAY, M.D.

County of Westchester

DEPARTMENT OF HEALTH
County Office Building
White Plains, N. Y.

GEORGE H. RAMSEY, M.D. COMMISSIONER

W. A. HOLLA, M.D. FIRST DEPUTY

E. H. MARSH, M.D.
A. D. LANGMUIR, M.D.
DEPUTIES

March 27, 1942

Jewers Pombrége

Mr. J. Augustine McMally Box 244 New Canaan, Connecticut

o/s Stamford Water Company

FINAL APPROVAL OF SEWAGE DISPOSAL SYSTEM

Dear Sir:

a 300 gallon masonry septic tank and 69 linear feet	of 21 inches wide absorption
	suglachions (Costagin casin visiglacin north de Saig (dropser noga gapt cast for fundar) little propagation and little score of the Saig Costagin (Costagin Costagin
to serve the bungalow of J. Augustine McMally, Wes	tchester Avenue, Town of
Poundridge, New York (meximum eccupancy 4 persons)	
has been completed in general accordance with the re	equirements of this depart-
ment and the permit issued February 16, 1942	Anne at montal accomply process or or the annex and the million and the resident accomply and the contract accomply accomply accomply and the contract accomply and the contract accomply acc
Very truly y	ours,
R. M. McLaug	hlin
Director Division of	Sanitation

THE OWNER OR HIS AGENT MUST RECEIVE THIS NOTICE OF APPROVAL OR A COPY THEREOF.

42-253A

WESTCHESTER COUNTY DEPARTMENT OF HEALTH

GEORGE H. RAMSEY, M.D., Commissioner White Plains, N.Y.

PERMIT TO PROVIDE A SEWAGE DISPOSAL SYSTEM

Application having been duly made to the County Commissioner of Health as required by
Article II of the Sanitary Code of the Westchester County Health District, permission is hereby given to J. Augustine Edwally, Box 244, New Canasan, Connections
for the construction or provision of a sewage disposal system consisting of a 500 callon mason septic tank and 80 linear feet of 24 inches wide absorption trench
SUBJECT TO SOIL TEST
to serve the bungalow of J. Augustine McWally, Westchester Avenue, Town of Poundridge New York (maximum occupancy 4 persons)
subject to the following conditions: NOTE: Well should be 100° distant minimum from septically subject to the following conditions:

- 1. That this department shall receive due notification and be afforded an opportunity to inspect the system before any portion is backfilled or covered.
- II. That this system shall not be used until the written final approval thereof shall have been obtained from the Department of Health.
- III. That such sewage disposal system shall be constructed in complete conformity with the application data and plans as approved or with approved amendments thereto. Any changes in this system must be approved.
- IV. That such system shall receive only the sewage or wastes from the structures or premises covered by this permit.
- V. That such system shall be so maintained and operated as not to expose sewage or sludge, or create a condition of nuisance.
- VI. That this permit shall not be construed to invalidate any rule or regulation enforceable by any local authority having jurisdiction.
- VII. That all duly enacted rules and regulations for the protection of water supplies shall be complied with.
- VIII. That a connection to the public sewer shall be made as soon as such is available.
- IX. That whenever it is determined by the Commissioner of Health that additional or more adequate sewage disposal facilities are necessary, such facilities shall be provided, plans for which shall first be submitted to and receive the approval of the Department of Health.
- X. That whenever the sludge and scum shall so accumulate in any settling tank as to occupy together at any point more than one-fourth of the distance between the bottom and the flow line, they shall be removed.
- XI. That whenever sludge or scum is removed from any settling tank or any part of the system, it shall be done in such a manner as to cause no nuisance and the material disposed of by burial in some remote place at least 250 feet from any house, road, well, spring, stream or other body of water, and covered with not less than 6 inches of earth in such a manner that it will not flow or be washed by rain or melted snow or other means over the surface of the ground or into any well, stream, spring or other body of water.
- XII. That this permit shall be revocable at any time or subject to modification or change when in the judgment of the Commissioner of Health such revocation, modification or change shall become necessary.

	Feb.	16	1942			
	IMO:I					Someonia specia e la cici di
Date:	Copy	to:	Stamford	Water	Co.	COMMISSIONER

VISION OF SANITATION R. M. McLaughlin, Director

W. M. Scott

J. D. Barrett H. M. Gray

Sanitary Engineers

County of Westchester

DEPARTMENT OF HEALTH

GEORGE H. RAMSEY, M.D., COMMISSIONER
County Office Building

White Plains, N. Y.

File	mude	Llgo
Permit		<i>T</i>
Inspected	by	***************************************
	. 2	

APPLICATION FOR SEWAGE DISPOSAL PERMIT

To the Commissioner of Health:	Date
Application is hereby made for a permit to construct a s	sewage system to serve
Miller Mark Stranger and Mark	color to the part of the
Number, type and use of buildings t	o be served
concerning which the following information is submitted:	
1. Owner	lested
2. Property location and Color (Street)	Place (Village, Town, City)
3. Tax Map Location: Section——— Block——— Lot——	Subdivision
4. Construction: New, Replacement. Proposed Future Build	ding Taken Canada Santa Sa
5. Lot area No. of rooms Be	edrooms Bathrooms
Extra Lavatories Special Fixtures	Maximum Future Occupancy
6. Source of water supply	E.
Watershed on which system is located	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Distance to nearest watercourse Owner's we	ells Adjacent wells Adjacent
7. Daily Sewage Flow: No. of persons x 75 gals. =	
8. Settling treatment, Septic tank: liquid capacity 3.3	3 9al material Canant
inside dimensions: length width width Note: Liquid capacity of tank shall be not less than volume of waste per day, with	effective depth diam.
9. Soil: clay, loam, sand, boulders, rock; surface: flat, slopin good, fair, poor. (Check terms that apply)	g, steep; ground water and surface drainage:
Absorption test: minutes per inch dro Note: Except in clay soil, a rate of 1 gal. per sq. ft. of bottom area per day shall	pe = Absorption rate (from table) be used unless a higher rate is established by soil test.
10. Absorption area:	sq. ft. bottom area.
gals. waste (No. 7) Absorption rate from 11. Absorption treatment, Trenches:inches wide;	
gravel cu. yards, to depth of inc	
Leaching pits: number outside dimensions wall area below flow line material	
Absorption area: trenches leaching pits	
Signature:	(By owner, builder, or officer of sewage disposal firm, or contractor)
Mail Address:	3. 2

Sketch required on reverse side or on attached sheet showing plan with general relation of dwelling and property boundaries, wells and streams to system and arrangement of absorption facilities, together with all other pertinent data, including details of grease trap, manholes, diversion gates, siphon, curtain drains, special structures and unusual features. Failure to secure permit before construction or final written approval of the system before using is a violation of the County Sanitary Code and is a misdemeanor.

Pound Ridge Waste Water Task Force

Appendix D: Flow Estimate Details

Based upon data from June 10, 2016

Appendix D Scotts Corner Full Occupancy Wastewater Generation Estimate (PB-A)									1/2		
						Building			Usage Rate		
						Square	_	•	(gallons/day/	Wastewater Generation	Allowable
Block	Lot	Zone	Property Address	Use	Acreage	Footage	Number	Measure	unit)	(gallons per day)	Flow (DOH
9454	36	R-2A	89 Westchester Ave	community facility	0.530	1,296	1,296	sq. ft.	0.10	130	
9454	5	PB-A	87 Westchesterchester Ave	retail	1.131	1,290	1,444		0.10	347	
9454	6	PB-A		restaurant	0.415	4,122	50	sq. ft.	35.00	_	
	6		85 Westchester Ave			4,122		seats		1,750 2	
9454	7	PB-A	85 Westchester Ave	office	0.473	0.161	1,360	sq. ft.	0.10	737	
9454		PB-A	83 Westchester Ave	retail	0.473	9,161	6,138	sq. ft.	0.24		
9454	7	PB-A	83, A, & B Westchester Ave	apartments			2 200	apts.	300.00	600	
9454	7	PB-A	83 C & D Westchester Ave	office	0.04=		2,290	sq. ft.	0.10	57	
9454	8	PB-A	79 Westchester Ave	office	0.345	1,872	1,872	sq. ft.	0.10	187	
9454	9	PB-A	77 Westchester Ave	auto repair	0.342	4,864	2	bays	750.00	1,500	
9454	9	PB-A	77A Westchester Ave	apartments			1	apts.	300.00	300	
9454	35	PB-A	NA	Vacant	0.356	0		NA	NA	0	
9454	10	PB-A	73 Westchester Ave	office	0.670	5,600	5,600	sq. ft.	0.24	1,344	
9454	11	PB-A	71 Westchester Ave	resaurant	0.631	3,878	25	seats	35.00	875	
9454	11	PB-A	71 Westchester Ave	retail			3,878	sq. ft.	0.24	931	
9454	11	PB-A	71 Westchester Ave	office			3,878	sq. ft.	0.10	388	
9454	12	PB-A	69 Westchester Ave	resaurant	0.493	12,285	40	seats	35.00	1,400	
9454	12	PB-A	69 Westchester Ave	retail			12,285	sq. ft.	0.24	2,211	
9454	13	PB-A	67 Westchester Ave	apartments	0.147	3,368	2	apts.	300.00	600	
9454	13	PB-A	67 Westchester Ave	retail			1,684	sq. ft.	0.24	404	
9454	14	PB-A	4 Trinity Pass Rd.	office	0.181	1,012	1,012	sq. ft.	0.10	101	
9454	15	PB-A	65 Westchester Ave	retail	0.185	65	1,174	sq. ft.	0.24	282	
9454	15	PB-A	65A,B Westchester Ave	apartments	0.185		2	apts.	300.00	600	
9320	56	PB-A	Westchester Ave	parking w/2 shed	5.084	0	0	NA	NA	0	
9320	58	PB-A	80 Westchester Ave	community facility	0.449	7,076	7,076	sq. ft.	0.10	708	
9320	59	PB-A	78 Westchester Ave	retail	0.207	2,979	2,234	sq. ft.	0.24	536	
9320	59	PB-A	78 Westchester Ave	office			745	sq. ft.	0.10	74	
9320	60	PB-A	76 Westchester Ave	restaurant	0.207	8,910	60	seats	35.00	2,100	
9320	60	PB-A	76 Westchester Ave	office			1,782	sq. ft.	0.10	178	
9320	60	PB-A	76 Westchester Ave	apartments			4	apts.	300.00	1,200	
9320	61	PB-A	74 Westchester Ave	restaurant	0.207	7,970	50	seats	35.00	1,750	
9320	61	PB-A	74 Westchester Ave	retail			1,993	sq. ft.	0.24	478	
9320	61	PB-A	74 A, B, C, & D Westchester Ave	apartments			4	apts.	300.00	1,200	
9320	62	PB-A	72 Westchester Ave	retail	0.207	4,750	2,375	sq. ft.	0.24	570	
9320	62	PB-A	72 A & B Westchester Ave	apartments		.,. 30	2	apts.	300.00	600	
9320	63	PB-A	70 Westchester Ave	apartments	0.207	3,120	2	apts.	300.00	600	
9320	63	PB-A	70 Westchester Ave	retail		5,120	1,560	sq. ft.	0.24	374	
9320	64	PB-A	68 Westchester Ave	retail	0.418	6,923	3,462	sq. ft.	0.24	831	
9320	64	PB-A		apartments	0.410	0,323	3,462	•	300.00	1,200	
9320	65	PB-A	68 A, B, C, & D Westchester Ave	•	0.642	2,130	2	apts.	750.00	1,200	
3320	00	PD-A	oo westchester ave	auto repair PB-A Subtotal	14.185	92,825	NA	bays NA	750.00 NA	28,645	

No.	Appen	ppendix D Scotts Corner Full Occupancy Wastewater Generation Estimate (PB-B and PB-C) and Total								2/2		
Block Lot Zone												
9455 20 PB-B 32 Westchester Ave retail 0.655 3,800 4,441 sq.ft. 0.24 1,066 9455 21 PB-B 34 Westchester Ave apartment 0.652 3,929 1 apts 300.00 300 9455 21 PB-B 34 Westchester Ave apartment 0.652 3,929 1 apts 300.00 300 9455 21 PB-B 34 Westchester Ave retail 1 1,965 sq.ft. 0.24 471 9455 27 PB-B, R-1A 38 Westchester Ave retail 0.495 3,870 3,870 sq.ft. 0.10 176 9455 28 PB-B 40, 400 Westchester Ave retail 0.495 3,870 3,870 sq.ft. 0.24 9.29 9455 25 PB-B 54 Westchester Ave retail 1.632 5,355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave retail 1.692 1.607 sq.ft. 0.24 386 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts 300.00 300 9455 24 PB-B 56,60 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 56,60 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 24 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9456 19 PB-B 39 Westchester Ave retail 1.698 10,388 5 apts 300.00 3.00 9455 10 PB-C 22, 24 Westchester Ave retail 1.715 83,881 NA NA NA 0 9456 19 PB-B 39 Westchester Ave apartment 0.711 54,138 54,139 sq.ft. 0.24 12,993 9455 10 PB-C 22, 24 Westchester Ave apartment 0.781 2,197 1 apts 300.00 300 9456 7 PB-C 30 Westchester Ave residential 1.002 1.708 1.708 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave residential 1.002 1.708 1.708 NA NA 0 9456 7 PB-C 27 Westchester Ave residential 1.693 3.062 3.062								-	-			
9455 20 PB B 32 Westchester Ave apartment 0.652 3,929 1 apts. 300.00 300 9455 21 PB B 34 Westchester Ave apartment 0.652 3,929 1 apts. 300.00 300 9455 21 PB B 34 Westchester Ave retail 0.717 1,760 1,760 sq. ft. 0.24 471 9455 27 PB B, R-1A 38 Westchester Ave office 0.717 1,760 1,760 sq. ft. 0.10 176 9455 28 PB B 34 Westchester Ave retail 0.495 3,870 sq. ft. 0.24 929 9455 25 PB B 54 Westchester Ave retail 1.632 5,355 25 seats 35.00 875 9455 25 PB B 54 Westchester Ave retail 1.692 1,697 sq. ft. 0.24 336 9455 25 PB B 54 Westchester Ave apartment 1.698 1,388 5 apts. 300.00 300 9455 24 PB B 54 Westchester Ave apartment 1.698 1,388 5 apts. 300.00 300 9455 24 PB B 55, 60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 24 PB B 59, 60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9456 1.9 PB B 59, 50 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993 9455 10 PB C 22,24 Westchester Ave retail 17.55 83,881 NA NA NA 21,166 9455 13 PB C 26 Westchester Ave retail 1,71 54,138 54,139 sq. ft. 0.24 12,993 9455 13 PB C 26 Westchester Ave retail 1,71 54,138 54,139 sq. ft. 0.10 478 9455 13 PB C 26 Westchester Ave retail 1,71 54,138 54,139 sq. ft. 0.10 478 9455 13 PB C 26 Westchester Ave residential 1,002 1,708 1,708 NA NA 0 9456 7 PB C 23,23 A B Westchester Ave residential 0.656 2,342 3,425 NA NA 0 9456 6 PB C 27 Westchester Ave residential 0.656 2,342 3,425 NA NA 0 9456 6 PB C 27 Westchester Ave residential 0.656 2,342 3,425 sq. ft. 0.24 364 9456 6 PB C 27 Westchester Ave residential 0.666 2,342 sq. ft. 0.24 364 945												Flow (DOH)
9455 21 PB-B 34 Westchester Ave apartment 0.652 3,929 1 apts 300.00 300 340	9455	20	PB-B	32 Westchester Ave	retail	0.656	<u> </u>	4,441	sq. ft.			
9455 21 PB-B 34 Westchester Ave			_		apartment			_	apts.			
9455 27 PB.B, R-1A 38 Westchester Ave office 0.717 1.760	9455	21	PB-B	34 Westchester Ave	apartment	0.652	3,929		apts.	300.00	300	
9455 28 PB-B 40, 40A Westchester Ave retail 0.495 3,870 3,870 sq. ft. 0.24 929 9455 25 PB-B 54 Westchester Ave residurant 1.632 5,355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave retail 1.632 5,355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 1 apsts 300.00 300 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 24 PB-B 55,57 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9456 1.9 PB-B 55,57 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9457 10 PB-C 22, 24 Westchester Ave apartment 0.781 1,745 83,881 NA NA NA 21,166 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apsts 300.00 300 9455 13 PB-C 26 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 6 PB-C 27 Westchester Ave residential 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 27 Westchester Ave retail 1.537 3,062 3,052 sq. ft. 0.24 364 9456 5 PB-C 35 Westchester Ave retail 1.537 3,062 3,052 sq. ft. 0.24 364 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 300 9456 7 PB-C 35 Westchester Ave retail 1.537 3,062 3,052 sq. ft. 0.24 364 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,000 9456 7 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,000 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,000 9456 5 PB-C 35 Westchester Av				34 Westchester Ave	retail					0.24		
9455 25 PB-B 54 Westchester Ave restaurant 1.632 5.355 25 seats 35.00 875 9455 25 PB-B 54 Westchester Ave retail 1.607 sq. ft. 0.24 386 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 300 9455 24 PB-B 56,60 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave residential 2.196 0 0 NA NA 0 9455 4 PB-B 39 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9456 1.9 PB-B 55,57 Westchester Ave retail 7,71 54,138 54,139 sq. ft. 0.24 12,993 9455 10 PB-C 22,24 Westchester Ave apartment 0,781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave apartment 0,781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave apartment 0,781 2,197 1 apts. 300.00 300 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 1.056 2,342 2,342 NA NA 0 9456 6 PB-C 27 Westchester Ave retail 1,537 3,062 3,062 sq. ft. 0,24 364 9456 6 PB-C 27 Westchester Ave retail 1,537 3,063 3,062 sq. ft. 0,24 364 9456 6 PB-C 27 Westchester Ave retail 1,537 3,062 3,062 sq. ft. 0,24 364 9456 6 PB-C 27 Westchester Ave retail 1,537 3,063 3,062 sq. ft. 0,24 364 9456 5 PB-C 29 Westchester Ave retail 0,764 3,425 sq. ft. 0,24 364 9456 5 PB-C 29 Westchester Ave retail 0,764 3,425 sq. ft. 0,24 822 9456 5 PB-C 35 Westchester Ave retail 0,764 3,425 sq. ft. 0,24 822 9456 5 PB-C 35 Westchester Ave retail 0,764 3,425 sq. ft. 0,24 822 9456 5 PB-C 30 Westchester Ave retail 0,764 3	9455	27	PB-B, R-1A	38 Westchester Ave	office	0.717	1,760	1,760	sq. ft.	0.10	176	
9455 25 PB-B 54 Westchester Ave apartment 1.697 sq. ft. 0.24 386 9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 300 9455 24 PB-B 56,60 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave residential 2.196 0 0 NA NA 0 0 9456 1.9 PB-B 39 Westchester Ave residential 7,71 54,138 54,139 sq. ft. 0.24 12,993 9455 10 PB-C 22, 24 Westchester Ave 6,724 17,45 83,881 NA NA NA 10 10,476 11,676 1	9455	28	PB-B	40, 40A Westchester Ave	retail	0.495	3,870	3,870	sq. ft.	0.24	929	
9455 25 PB-B 54 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56, 60 Westchester Ave apartment 1.698 10,388 5 apts. 300.00 1,500 9455 24 PB-B 56, 60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave residential 2.196 0 0 NA NA 0 0 9456 1.9 PB-B 55, 57 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993 9456 10 PB-C 22, 24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 14 PB-C 30 Westchester Ave office 1.002 1,708 NA NA 0 0 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 NA NA 0 0 9456 8 PB-C 21 Westchester Ave residential 1.602 1,708 NA NA 0 0 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 5 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 6 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 5 PB-C 27 Westchester Ave residential 3.195 11,018 12 apts. 300.00 300 9456 5 PB-C 27 Westchester Ave residential 1.537 3,002 3,002 3,000 300 9456 6 PB-C 27 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 27 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 36 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 37 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 6 PB-C 27 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 6 PB-C 35 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 6 PB-C 36 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 6 PB-C 36 Westchester Ave residential 3.195 11,018 12 apts.	9455	25	PB-B	54 Westchester Ave	restaurant	1.632	5,355	25	seats	35.00	875	
9455	9455	25	PB-B	54 Westchester Ave	retail			1,607	sq. ft.	0.24	386	
9455 24 PB-B 56,60 Westchester Ave retail 1.698 7,791 sq. ft. 0.24 1,870 9455 4 PB-B 39 Westchester Ave residential 2.196 0 NA NA 0 9456 1.9 PB-B 55,57 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993 PB-B Subtotal 17.45 83,881 NA NA NA NA 21,166 9455 10 PB-C 22, 24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 1.002 1,708 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave residential 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave retail 1.0764 3,425 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave retail 0.764 3,425 sq. ft. 0.24 364 PB-C Subtotal 10.633 31,569 NA NA NA 0,6,764 PB-C Subtotal 10.633 31,569 NA NA NA NA 0,6,764 PB-C Subtotal 10.633 31,569 NA NA NA NA N	9455	25	PB-B	54 Westchester Ave	apartment			1	apts.	300.00	300	
9455	9455	24	PB-B	56, 60 Westchester Ave	apartment	1.698	10,388	5	apts.	300.00	1,500	
9455												
9456 1.9 PB-B 55,57 Westchester Ave retail 7.71 54,138 54,139 sq. ft. 0.24 12,993	9455	24	PB-B	56, 60 Westchester Ave	retail	1.698		7,791	sq. ft.	0.24	1,870	
PB-B Subtotal 17.45 83,881 NA	9455	4	PB-B	39 Westchester Ave	residential	2.196	0	0	NA	NA	0	
9455 10 PB-C 22,24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave office 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 5100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays	9456	1.9	PB-B	55, 57 Westchester Ave	retail	7.71	54,138	54,139	sq. ft.	0.24	12,993	
9455 10 PB-C 22,24 Westchester Ave office 2.005 4,781 4,781 sq. ft. 0.10 478 9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave office 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 5100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays					PB-B Subtotal	17.45	83,881	NA	NA	NA	21,166	
9455 13 PB-C 26 Westchester Ave apartment 0.781 2,197 1 apts. 300.00 300 9455 13 PB-C 26 Westchester Ave office 1.002 1,708 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA 0 9456 7 PB-C 23,23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.537 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 29 Westchester Ave retail 1.0633 31,569 NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per square foot 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays												
9455 13 PB-C 26 Westchester Ave office 1,648 sq.ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 30,02 sq.ft. 0.24 735 9456 6 PB-C 27 Westchester Ave retail 1,518 sq.ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 29 Westchester Ave retail 0.764 3,425 3,425 sq.ft. 0.24 822 9456 5 PB-C 35 Westchester Ave retail 0.633	9455	10	PB-C	22, 24 Westchester Ave	office	2.005	4,781	4,781	sq. ft.	0.10	478	
9455 13 PB-C 26 Westchester Ave office 1,648 sq. ft. 0.10 165 9455 14 PB-C 30 Westchester Ave residential 1.002 1,708 1,708 NA NA NA 0 9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave retail 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 5 PB-C 29 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 9456 5 PB-C 35 Westchester Ave retail 0.633	9455	13	PB-C	26 Westchester Ave	apartment	0.781	2,197	1	apts.	300.00	300	
9456 8 PB-C 21 Westchester Ave residential 0.656 2,342 2,342 NA NA NA 0 9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per square foot 100 gallons per day per square foot 100 gallons per day per square foot 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays	9455	13	PB-C	26 Westchester Ave				1,648	sq. ft.	0.10	165	
9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day for first bay and 500 gallons per day for remaining bays	9455	14	PB-C	30 Westchester Ave	residential	1.002	1,708	1,708	NA	NA	0	
9456 7 PB-C 23, 23 A, B Westchester Ave retail 1.537 3,062 3,062 sq. ft. 0.24 735 9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1.518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day for first bay and 500 gallons per day for remaining bays	9456	8	PB-C	21 Westchester Ave	residential	0.656	2,342	2,342	NA	NA	0	
9456 6 PB-C 27 Westchester Ave apartment 0.693 3,036 1 apts. 300.00 300 9456 6 PB-C 27 Westchester Ave retail 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays	9456	7	PB-C	23, 23 A, B Westchester Ave	retail	1.537			sg. ft.	0.24	735	
9456 6 PB-C 27 Westchester Ave retail 1,518 sq. ft. 0.24 364 9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA	9456	6	PB-C	27 Westchester Ave	apartment	0.693	3,036	1	apts.	300.00	300	
9456 5 PB-C 29 Westchester Ave residential 3.195 11,018 12 apts. 300.00 3,600 9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA	9456	6	PB-C	27 Westchester Ave	retail				•	0.24	364	
9456 55 PB-C 35 Westchester Ave retail 0.764 3,425 3,425 sq. ft. 0.24 822 PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot office 0.10 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays		5	PB-C		residential	3.195	11,018		-	300.00		
PB-C Subtotal 10.633 31,569 NA NA NA NA NA 6,764 PB Total 32.525 178,532 50,633 Waterwater Generation Rates from New York City Department of Environmental Protection retail 0.24 gallons per day per square foot office 0.10 gallons per day per square foot rest. 35 gallons per day per seat (about 60 square feet per seat) Apts. 100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays	9456	55	PB-C	35 Westchester Ave	retail	0.764	3,425	3,425		0.24	822	
PB Total 32.525 178,532 50,633					PB-C Subtotal	10.633	31,569			NA	6,764	
retail 0.24 gallons per day per square foot 0.10 gallons per day per square foot 9.10 gallons per day per square foot 9.10 gallons per day per seat (about 60 square feet per seat) 9.100 gallons per day per person/3 persons per apartment (Census Bureau data for affected blocks) 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for remaining bays 9.1000 gallons per day for first bay and 500 gallons per day for f					PB Total	32.525	178,532				50,633	
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garage 1000 gallons per day for first bay and 500 gallons per day for remaining bays												

POUND RIDGE WASTEWATER TASK FORCE

Appendix E: Photos of current conditions

Photos indicate wells that exist near Westchester Ave. and septic systems behind the buildings on Westchester Ave. under the parking lots and in one case extending into the woods, and high water table during an excavation.

















POUND RIDGE WASTEWATER TASK FORCE

Appendix E: Photos of current conditions

Photos indicate wells that exist near Westchester Ave. and septic systems behind the buildings on Westchester Ave. under the parking lots and in one case extending into the woods, and high water table during an excavation.













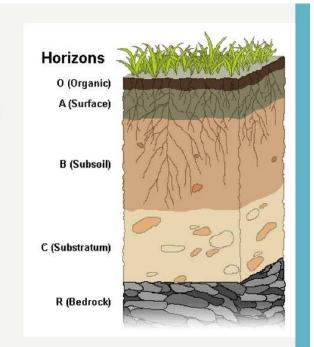




APPENDIX B POUND RIDGE CANDIDATE SITES USDA NCRS SOILS DESCRIPTIONS

WHAT IS A SOIL PROFILE?

- Cross section of soil layers revealing all soil horizons
- O Horizon = organic material (humus)
- A Horizon = topsoil
- B Horizon = subsoil
- C Horizon = partially weathered parent material
- R Horizon = bedrock



Horizon suffixes

- a: Highly decomposed organic matter (used only with O)
- e: Moderately decomposed organic matter (used only with O)
- g: Strong gley.
- i: Slightly decomposed organic matter (used only with 0)
- p: Plow layer or other artificial disturbance
- w: Weak color or structure within B (used only with B)

See Soils Horizons for further details/descriptions.

Ce-Catden muck, 0 to 2 percent slopes

Typical profile

Oa1 - 0 to 2 inches: muck Oa2 - 2 to 79 inches: muck

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: About 0 to 6 inches

Hydrologic Soil Group: B/D

ChB-Charlton fine sandy loam, 3 to 8 percent slopes

Typical profile

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Ap - 0 to 7 inches: fine sandy loam

Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

ChC-Charlton fine sandy loam, 8 to 15 percent slopes

Typical profile

Ap - 0 to 7 inches: fine sandy loam

Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

ChD-Charlton fine sandy loam, 15 to 25 percent slopes

Typical profile

Ap - 0 to 7 inches: fine sandy loam

Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

CIB—Charlton fine sandy loam, 3 to 8 percent slopes, very stony

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 4 inches: fine sandy loam

Bw - 4 to 27 inches: gravelly fine sandy loam C - 27 to 65 inches: gravelly fine sandy loam

Properties and qualities

Percent of area covered with surface fragments: 1.6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

CIC-Charlton fine sandy loam, 8 to 15 percent slopes, very stony

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 4 inches: fine sandy loam

Bw - 4 to 27 inches: gravelly fine sandy loam C - 27 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

CID-Charlton loam, 15 to 25 percent slopes, very stony

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 24 inches: sandy loam H3 - 24 to 60 inches: sandy loam

Properties and qualities

Percent of area covered with surface fragments: 1.6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to

5.95 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

CIE—Charlton loam, 25 to 35 percent slopes, very stony

H1 - 0 to 8 inches: loam

H2 - 8 to 24 inches: sandy loam H3 - 24 to 60 inches: sandy loam

Properties and qualities

Percent of area covered with surface fragments: 1.6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to

5.95 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

CIF-Charlton loam, 35 to 45 percent slopes, very stony

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 24 inches: sandy loam H3 - 24 to 60 inches: sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to

5.95 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

Crc—Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky

Description of Chatfield, Very Stony

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material

A - 1 to 2 inches: fine sandy loam

Bw - 2 to 30 inches: gravelly fine sandy loam

2R - 30 to 40 inches: bedrock

Properties and qualities

Depth to restrictive feature: 20 to 41 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

Description of Charlton, Very Stony

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 4 inches: fine sandy loam

Bw - 4 to 27 inches: gravelly fine sandy loam C - 27 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

CsD—Chatfield-Charlton complex, 15 to 35 percent slopes, very rocky

Description of Chatfield, Very Stony

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material

A - 1 to 2 inches: fine sandy loam

Bw - 2 to 30 inches: gravelly fine sandy loam

2R - 30 to 40 inches: bedrock

Properties and qualities

Depth to restrictive feature: 20 to 41 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

Description of Charlton, Very Stony

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 4 inches: fine sandy loam

Bw - 4 to 27 inches: gravelly fine sandy loam C - 27 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

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CtC—Chatfield-Hollis-Rock outcrop complex, 0 to 15 percent slopes

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material

A - 1 to 2 inches: fine sandy loam

Bw - 2 to 30 inches: gravelly fine sandy loam

2R - 30 to 40 inches: bedrock

Properties and qualities

Depth to restrictive feature: 20 to 41 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

CuD—Chatfield-Hollis-Rock outcrop complex, 15 to 35 percent slopes

Description of Chatfield, Extremely Stony

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material

A - 1 to 2 inches: fine sandy loam

Bw - 2 to 30 inches: gravelly fine sandy loam

2R - 30 to 40 inches: bedrock

Properties and qualities

Depth to restrictive feature: 20 to 41 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

Description of Hollis, Extremely Stony

Typical profile

Oi - 0 to 2 inches: slightly decomposed plant material

A - 2 to 7 inches: gravelly fine sandy loam Bw - 7 to 16 inches: gravelly fine sandy loam

2R - 16 to 26 inches: bedrock

Properties and qualities

Depth to restrictive feature: 8 to 23 inches to lithic bedrock Natural drainage class: Somewhat excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

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Hydrologic Soil Group: D

Description of Rock Outcrop

Depth to restrictive feature: 0 inches to lithic bedrock

Runoff class: Very high Hydrologic Soil Group: D

Ff—Fluvaquents-Udifluvents complex, frequently flooded

Description of Fluvaquents

Typical profile

H1 - 0 to 5 inches: gravelly silt loam

H2 - 5 to 70 inches: very gravelly silt loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to very high

(0.06 to 19.98 in/hr)

Depth to water table: About 0 inches

Hydrologic Soil Group: A/D

Description of Udifluvents

Typical profile

H1 - 0 to 4 inches: gravelly silt loam H2 - 4 to 70 inches: very gravelly loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to very high

(0.06 to 19.98 in/hr)

Depth to water table: About 24 to 72 inches

Hydrologic Soil Group: A

HrF—Hollis-Rock outcrop complex, 35 to 60 percent slopes

Description of Hollis, Very Stony

Typical profile

Oi - 0 to 2 inches: slightly decomposed plant material

A - 2 to 7 inches: gravelly fine sandy loam Bw - 7 to 16 inches: gravelly fine sandy loam

2R - 16 to 26 inches: bedrock

Properties and qualities

Depth to restrictive feature: 8 to 23 inches to lithic bedrock Natural drainage class: Somewhat excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: D

Description of Rock Outcrop

Typical Profile

R - 0 to 79 inches: bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Hydrologic Soil Group: D

LeB-Leicester loam, 2 to 8 percent slopes, very stony

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 26 inches: sandy loam C - 26 to 60 inches: sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to

5.95 in/hr)

Depth to water table: About 6 to 18 inches

Hydrologic Soil Group: A/D

LcA-Leicester loam, 0 to 3 percent slopes, stony

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 26 inches: sandy loam C - 26 to 60 inches: sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to

5.95 in/hr)

Depth to water table: About 0 to 12 inches

Hydrologic Soil Group: A/D

LcB-Leicester loam, 3 to 8 percent slopes, stony

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H1 - 0 to 8 inches: loam

H2 - 8 to 26 inches: sandy loam C - 26 to 60 inches: sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to

5.95 in/hr)

Depth to water table: About 6 to 18 inches

Hydrologic Soil Group: A/D

NcA-Natchaug muck, 0 to 2 percent slopes

Typical profile

Oa1 - 0 to 12 inches: muck *Oa2 - 12 to 31 inches:* muck *2Cg1 - 31 to 39 inches:* silt loam

2Cg2 - 39 to 79 inches: fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.01 to

14.17 in/hr)

Depth to water table: About 0 to 6 inches

Hydrologic Soil Group: B/D

NdA-Natchaug and Catden mucks, ponded, 0 to 2 percent slopes

Description of Natchaug

Typical profile

Oa1 - 0 to 12 inches: muck *Oa2 - 12 to 31 inches:* muck *2Cg1 - 31 to 39 inches:* silt loam

2Cg2 - 39 to 79 inches: fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.01 to

14.17 in/hr)

Depth to water table: About 0 to 6 inches

Hydrologic Soil Group: B/D

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Description of Catden

Typical profile

Oa1 - 0 to 2 inches: muck Oa2 - 2 to 79 inches: muck

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: About 0 to 6 inches

Hydrologic Soil Group: B/D

PnB—Paxton fine sandy loam, 3 to 8 percent slopes

Typical profile

Ap - 0 to 8 inches: fine sandy loam Bw1 - 8 to 15 inches: fine sandy loam Bw2 - 15 to 26 inches: fine sandy loam

Cd - 26 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: 18 to 39 inches to densic material

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low

(0.00 to 0.14 in/hr)

Depth to water table: About 18 to 37 inches

Hydrologic Soil Group: C

PnC—Paxton fine sandy loam, 8 to 15 percent slopes

Typical profile

Ap - 0 to 8 inches: fine sandy loam Bw1 - 8 to 15 inches: fine sandy loam Bw2 - 15 to 26 inches: fine sandy loam

Cd - 26 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: 20 to 39 inches to densic material

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low

(0.00 to 0.14 in/hr)

Depth to water table: About 18 to 37 inches

Hydrologic Soil Group: C

PoB—Paxton fine sandy loam, 0 to 8 percent slopes, very stony

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Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 10 inches: fine sandy loam
Bw1 - 10 to 17 inches: fine sandy loam
Bw2 - 17 to 28 inches: fine sandy loam

Cd - 28 to 67 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: 20 to 43 inches to densic material

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low

(0.00 to 0.14 in/hr)

Depth to water table: About 18 to 37 inches

Hydrologic Soil Group: C

PoD-Paxton fine sandy loam, 15 to 25 percent slopes, very stony

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 10 inches: fine sandy loam
Bw1 - 10 to 17 inches: fine sandy loam
Bw2 - 17 to 28 inches: fine sandy loam

Cd - 28 to 67 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: 20 to 43 inches to densic material

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low

(0.00 to 0.14 in/hr)

Depth to water table: About 18 to 37 inches

Hydrologic Soil Group: C

RgB-Ridgebury complex, 0 to 8 percent slopes, very stony

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 6 inches: loam

Bw - 6 to 10 inches: gravelly fine sandy loam Bg - 10 to 19 inches: gravelly fine sandy loam

Cd - 19 to 66 inches: gravelly loam

Properties and qualities

Depth to restrictive feature: 15 to 35 inches to densic material

Natural drainage class: Poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low

(0.00 to 0.14 in/hr)

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Depth to water table: About 0 to 6 inches

Hydrologic Soil Group: D

Sh-Sun loam

Typical profile

H1 - 0 to 9 inches: loam H2 - 9 to 27 inches: loam

H3 - 27 to 60 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately

high (0.06 to 0.20 in/hr)

Depth to water table: About 0 inches

Hydrologic Soil Group: C/D

Sm-Sun loam, extremely stony

Typical profile

H1 - 0 to 9 inches: loam H2 - 9 to 27 inches: loam

H3 - 27 to 60 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately

high (0.06 to 0.20 in/hr)

Depth to water table: About 0 inches

Hydrologic Soil Group: C/D

SuB-Sutton loam, 3 to 8 percent slopes

Typical profile

Ap - 0 to 9 inches: loam

Bw1 - 9 to 17 inches: fine sandy loam Bw2 - 17 to 30 inches: sandy loam C1 - 30 to 39 inches: sandy loam C2 - 39 to 60 inches: sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches Natural drainage class: Moderately well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: About 12 to 27 inches

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Hydrologic Soil Group: B/D

Ub—Udorthents, smoothed

Typical profile

H1 - 0 to 4 inches: gravelly loam

H2 - 4 to 70 inches: very gravelly loam

Properties and qualities

Depth to restrictive feature: 40 to 60 inches to lithic bedrock

Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to

5.95 in/hr)

Depth to water table: About 18 to 48 inches

Uf-Urban land

Typical profile

M - 0 to 10 inches: cemented material

Properties and qualities

Depth to restrictive feature: 0 inches to manufactured layer

UhB-Urban land-Charlton complex, 3 to 8 percent slopes

Description of Urban Land

Typical profile

M - 0 to 10 inches: cemented material

Properties and qualities

Depth to restrictive feature: 0 inches to manufactured layer

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Hydrologic Soil Group: D

Description of Charlton

Typical profile

Ap - 0 to 7 inches: fine sandy loam

Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to

14.17 in/hr)

Depth to water table: More than 80 inches

Hydrologic Soil Group: B

<u>UrB—Urban land-Ridgebury complex, 0 to 8 percent slopes</u>

Description of Urban Land

Typical profile

M - 0 to 10 inches: cemented material

Properties and qualities

Depth to restrictive feature: 0 inches to manufactured layer

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Hydrologic Soil Group: D

Description of Ridgebury, Somewhat Poorly Drained

Typical profile

Oa - 0 to 1 inches: highly decomposed plant material

A - 1 to 7 inches: loam Bw - 7 to 13 inches: loam

Bg - 13 to 21 inches: fine sandy loam

Cd - 21 to 60 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: 15 to 35 inches to densic material

Natural drainage class: Somewhat poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low

(0.00 to 0.14 in/hr)

Depth to water table: About 10 to 18 inches

Hydrologic Soil Group: D

UwB-Urban land-Woodbridge complex, 3 to 8 percent slopes

Description of Urban Land

Typical profile

M - 0 to 10 inches: cemented material

Properties and qualities

Depth to restrictive feature: 0 inches to manufactured layer

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Hydrologic Soil Group: D

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Description of Woodbridge

Typical profile

Ap - 0 to 7 inches: fine sandy loam
Bw1 - 7 to 18 inches: fine sandy loam
Bw2 - 18 to 30 inches: fine sandy loam

Cd - 30 to 65 inches: gravelly fine sandy loam

Properties and qualities

Depth to restrictive feature: 20 to 39 inches to densic material

Natural drainage class: Moderately well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low

(0.00 to 0.14 in/hr)

Depth to water table: About 18 to 30 inches

Hydrologic Soil Group: C/D

W-Water

WdB-Woodbridge loam, 3 to 8 percent slopes

Typical profile

Ap - 0 to 6 inches: loam

Bw1 - 6 to 18 inches: gravelly loam Bw2 - 18 to 29 inches: gravelly loam Cd - 29 to 65 inches: gravelly loam

Properties and qualities

Depth to restrictive feature: 20 to 39 inches to densic material

Natural drainage class: Moderately well drained

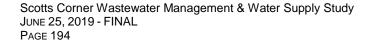
Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderatelylow

(0.00 to 0.14 in/hr)

Depth to water table: About 18 to 30 inches

Hydrologic Soil Group: C/D



APPENDIX C SMART GROWTH ASSESSMENT & SEXUAL HARRASSMENT FORMS



Smart Growth Assessment Form

This form should be completed by the applicant's project engineer or other design professional.1

Applicant Information	
Applicant: Town of Pound Ridge Project No.:	
Project Name: Scotts Corner Wastewater Management and Water Supply Engineering Report	
Is project construction complete? ☐ Yes, date: ☐ No	
Project Summary: (provide a short project summary in plain language including the location of the area the project	ct serves)
The Scotts Corner area is the commercial center of Pound Ridge and consists of 41, primarily of properties that have individual wells and septic systems with a history of problems and inadequipmentation. A Engineering Plan for Study Area wide wastewater management system has been that consists of a centic tank effluent collection everem and tertiany treatment with disinfaction of Section 1 – Screening Questions	ate n prepared
1. Prior Approvals	
1A. Has the project been previously approved for Environmental Facilities ☐ Yes Corporation (EFC) financial assistance?	☑ No
1B. If so, what was the project number(s) for the prior	
Is the scope of the project substantially the same as that which was approved? $\hfill \Box$ Yes	□No
OF THE PROJECT HAS NOT MATERIALLY CHANGED, THE PROJECT IS NOT SUF TO SMART GROWTH REVIEW. SKIP TO SIGNATURE BLOCK.	50201
2. New or Expanded Infrastructure	
2A. Does the project add new wastewater collection/new water mains or a new wastewater treatment system/water treatment plant? Note: A new infrastructure project adds wastewater collection/water mains or a wastewater treatment/water treatment plant where none existed previously	□ No
2B. Will the project result in either: ☐ Yes	☑ No
An increase of the State Pollutant Discharge Elimination System (SPDES) permitted flow capacity for an existing treatment system;	
<u>OR</u>	
An increase such that a Department of Environmental Conservation (DEC) water withdrawal permit will need to be obtained or modified, or result in the Department of Health (DOH) approving an increase in the capacity of the water treatment plant?	
Note: An expanded infrastructure project results in an increase of the SPDES permitted	
flow capacity for the wastewater treatment system, or an increase of the permitted water withdrawal or the permitted flow capacity for the water treatment system.	

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IF THE ANSWER IS "NO" TO BOTH "2A" and "2B" ON THE PREVIOUS PAGE, THE PROJECT IS NOT SUBJECT TO FURTHER SMART GROWTH REVIEW. SKIP TO SIGNATURE BLOCK.

3. Court or Administrative Consent Orders		
3A. Is the project expressly required by a court or administrative consent order?	□ Yes	☑ No
3B. If so, have you previously submitted the order to EFC or DOH? If not, please attach.	□ Yes	□No
Section 2 – Additional Information Needed for Relevant Smart Gr	owth C	riteria
EFC has determined that the following smart growth criteria are relevant for projects and that projects must meet each of these criteria to the extent practice.		ded
Uses or Improves Existing Infrastructure		
1A. Does the project use or improve existing infrastructure? <u>Please describe</u> :	☑ Ye	s □ No
Project will replace existing septic systems and wells		
 Serves a Municipal Center Projects must serve an area in either 2A, 2B or 2C to the extent practical 2A. Does the project serve an area limited to one or more of the following recenters? 		
i. A City or incorporated Village	□Ye	s ZNo
ii. A central business district	⊈ Ye	s □No
iii. A main street	⊠Ye	s □No
iv. A downtown area		s □No
v. A Brownfield Opportunity Area (for more information, go to www.dos.ny.gov & search "Brownfield")	□Ye	s ⊠No
vi. A downtown area of a Local Waterfront Revitalization Program Area (for more information, go to www.dos.ny.gov and search "Waterfront Revitalization")	□Ye	s ⊠No
vii. An area of transit-oriented development	□Ye	s ⊠No
viii. An Environmental Justice Area (for more information, go to www.dec.ny.gov/public/899.html)	□Ye	s ⊠No
ix. A Hardship/Poverty Area Note: Projects that primarily serve census tracts and block numbering areas with a poverty rate of at least twenty percent according to the latest census data	□Ye	s ⊠No
Please describe all selections:		
The Scotts Corner area contains the Town's three (3) Business Districts with a Downtown area.	Main Stre	et and a

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2B. If the project serves an area located outside of a mu- located adjacent to a municipal center which has cle concentrated development in a municipal or regiona strong land use, transportation, infrastructure and ed municipal center?	early defined borders, designated for I comprehensive plan and exhibit
Please describe:	
Not applicable	
2C. If the project is not located in a municipal center as of designated by a comprehensive plan and identified in municipal center?	
Please describe and reference applicable plans:	
Not applicable	
3. Resiliency Criteria	
•	ele dive de ese level de esterne
3A. Was there consideration of future physical climate ris and/or flooding during the planning of this project?	sk due to sea-level rise, storm surge, ☑Yes □No
Please describe:	
Wastewater treatment and disposal facilities are located a subject to storm suge of flooding. Location not affected by	bove floodplains and areas that would be y sea level rise.
Signature Block: By entering your name in the box below	
act on behalf of the applicant and that the information con Assessment is true, correct and complete to the best of yo	
Assessment is true, correct and complete to the best of yo	our knowledge and belief.
Applicant: Town of Pound Ridge NY	Phone Number: 617-964-2924
Pio Lombardo, P.E.	
(Name & Title of Project Engineer or Deelign Projessional or Authoriza	ed Municipal Representative)
a the last of	May 20, 2019
(Signature)	(Date)
1	,,
1	

APPENDIX A

Sexual Harassment Prevention Certification Form

By submission of this application, each applicant and each person signing on behalf of the applicant certifies, and in the case of a partnering application each party thereto certifies as to its own organization, under penalty of perjury, that the applicant has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all of its employees. Such policy shall, at a minimum, meet the requirements of section two hundred one-g of the labor law.

Grantee Name:	Town of Pound Ridge	
Signature:	V.1.1L	
	Kevin Hansan, Supervisor	
Print Name and Tit	le:	
Date: 5/21/	2019	