

LOCATION MAP
SCALE 1" = 3000'

Recommended for Approval

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Received and approved
for the Ulster County Health Department

Carol M. Smith, MD, MPH
Commissioner of Health

Handwritten signature 2/25/23
Public Health Director

PROPOSED SEPTIC SYSTEM FOR MAD BATTERS PASTRIES











578 ROUTE 44-55
HIGHLAND, NEW YORK

TOWN OF MARLBOROUGH 95.2-2-10

COUNTY OF ULSTER



PROPOSED SEPTIC SYSTEM MAD BATTERS PASTRIES 578 ROUTE 44-55 HIGHLAND, NEW YORK TOWN OF MARLBOROUGH 95.2-2-10	DATE	10/20/2022
	REVIS	JAN 31 2023
	DRAWING	TITLE
SCALE	AS SPECIFIED	LOUIS S. DUBOIS, P.E. 8 COOK LANE NEW PALTZ, NEW YORK (845) 691-2247 OFFICE (845) 691-6515 FAX (845) 224-7102 CELL louisdubois@optimum.net
DRAWN BY	LSD	
APPROVED	LSD	

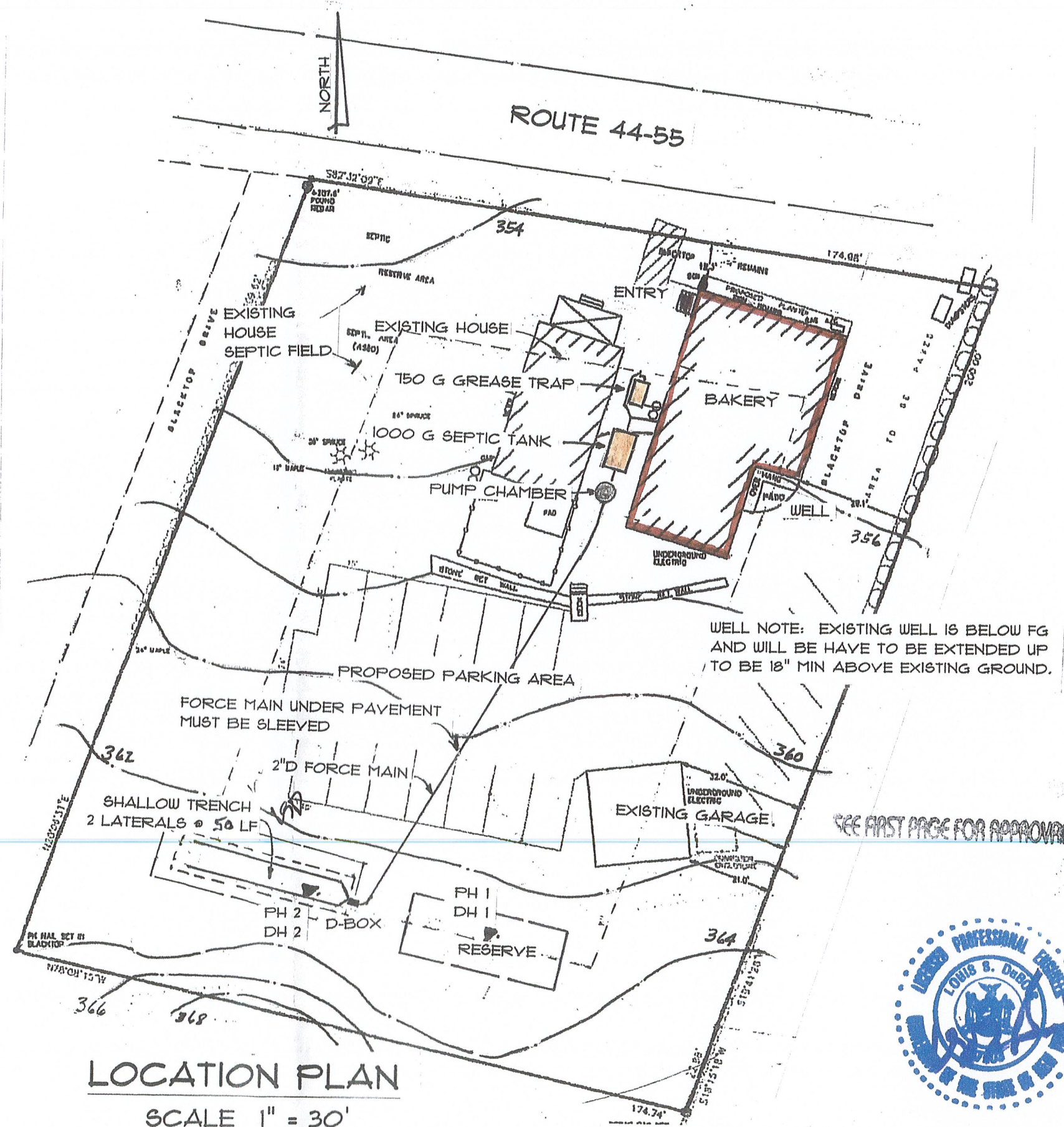
	Model	Length	Width	Height	Inlet	Outlet	Weight	Covers
	LB-750	102"	58"	56"	46"	43"	6,900	3-8" 1-20"
	LB-1000	120"	60"	56"	46"	43"	8,700	3-8" 1-20"
	ST-1000	102"	58"	65"	55"	51"	8,700	3-8" 1-20"
	LB-1250	126"	68"	57"	47.5"	44.5"	9,800	12"x16" 20"x27" 8"x12"
	ST-1250	120"	60"	65"	55"	51"	9,500	3-8" 1-20"
	ST-1500	126"	68"	65"	55"	52"	10,600	12"x16" 22"x29" 8"x12"
	ST-2000	144"	78"	68"	56"	53"	13,100	12"x16" 22"x29" 8"x12"
	ST-2500	144"	78"	83"	71"	68"	14,900	12"x16" 22"x29" 8"x12"
	ST-3000	144"	78"	94"	82"	79"	16,000	12"x16" 22"x29" 8"x12"
Specifications				Precast Septic Tanks Non-Traffic Design 750 to 3,000 Gallons				
Concrete Min. Strength: 4,000 psi at 28 days				 WOODARD'S CONCRETE PRODUCTS, INC. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050 Page 1A 1/11/16				
Reinforcement: #4 bar gr. 60, Forta Ferro 5 lb/cy								
Air Entrainment: 6%								
Construction Joint: Butyl Rubber Sealant								
Pipe Connection: Polylok Seal (patented)								
Weight varies								
Load Rating: 300 psf								

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DESIGN LOAD COMPUTATION

$$\begin{aligned}
 1 \text{ EMPLOYEES} \times 15 \text{ gpd} \times 0.8 &= 84 \text{ GPD} \\
 560 \text{ SF BAKERY} \times 0.1 \text{ gpd} &= 56 \\
 \text{TOTAL} &= 140 \text{ GPD}
 \end{aligned}$$

* AREA DOES NOT INCLUDE STORAGE, BATHROOM AND DISPLAY AREAS



LOCATION PLAN

SCALE 1" = 30'



PROPOSED SEPTIC SYSTEM

MAD BATTERS PASTRIES

518 ROUTE 44-55

HIGHLAND, NEW YORK

TOWN OF MARLBOROUGH 95.2-2-10

SCALE AS SPECIFIED

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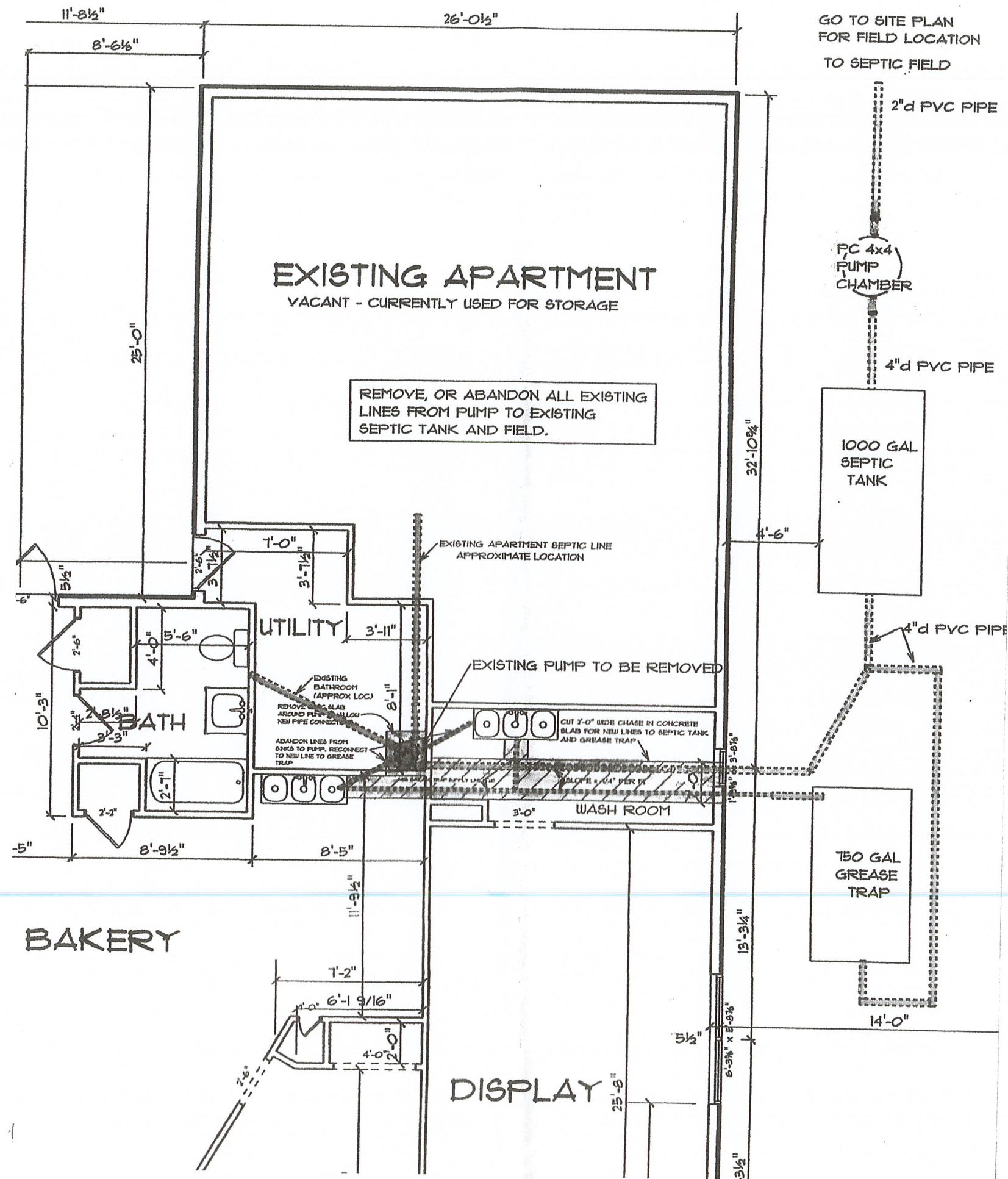
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DATE 10/20/2022

REVISED JAN 31 2023

DRAWING LOCATION PLAN

2



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PROPOSED SEPTIC SYSTEM
MAD BATTERS PASTRIES
578 ROUTE 44-55
HIGHLAND, NEW YORK
TOWN OF MARLBOROUGH 95.2-2-10

SCALE
AS SPECIFIED
DRAWN BY
LSD
APPROVED
LSD

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DATE
10/20/2022
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JAN 31 2023
DRAWING
INTERIOR PLAN

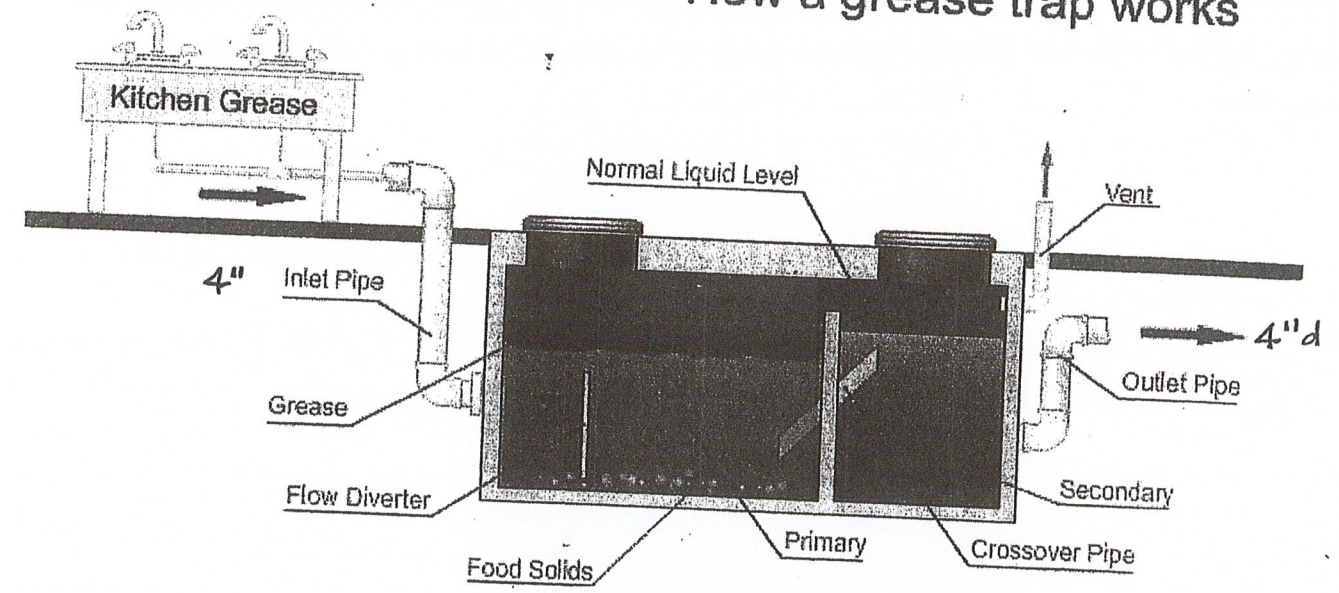
DATE 10/20/2022
REVISED
JAN 31 2023
DRAWING
GREASE TRAP

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PROPOSED SEPTIC SYSTEM
MAD BATTERS PASTRIES
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HIGHLAND, NEW YORK
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How a grease trap works



GREASE TRAP DESIGN

The two three-bay sinks will require a grease trap located outside the building, but as close to the source as possible before draining into the septic tank. Each bay of the three bay sink measures 20"x16"x14" deep. The volume of each bay is: 20x16x14 = 4480 cubic inches. The gallons per minutes = 4480/231 = 19.4 gpm per bay.

Since there are two sinks draining into a single grease trap, the volumes are adjusted accordingly:

- First bay = 100% = 19.4 gpm x 2 = 38.8 gpm
- Second bay = 50% = 9.7 gpm x 2 = 19.4
- Third bay = 25% = 4.9 gpm x 2 = 9.8

TOTAL GPM = 68 gpm

For calculation basis, PDI allowance is that the bay is only 75% full of water when the pots are in the sink:

68 gpm x 75% = 51.0 gpm

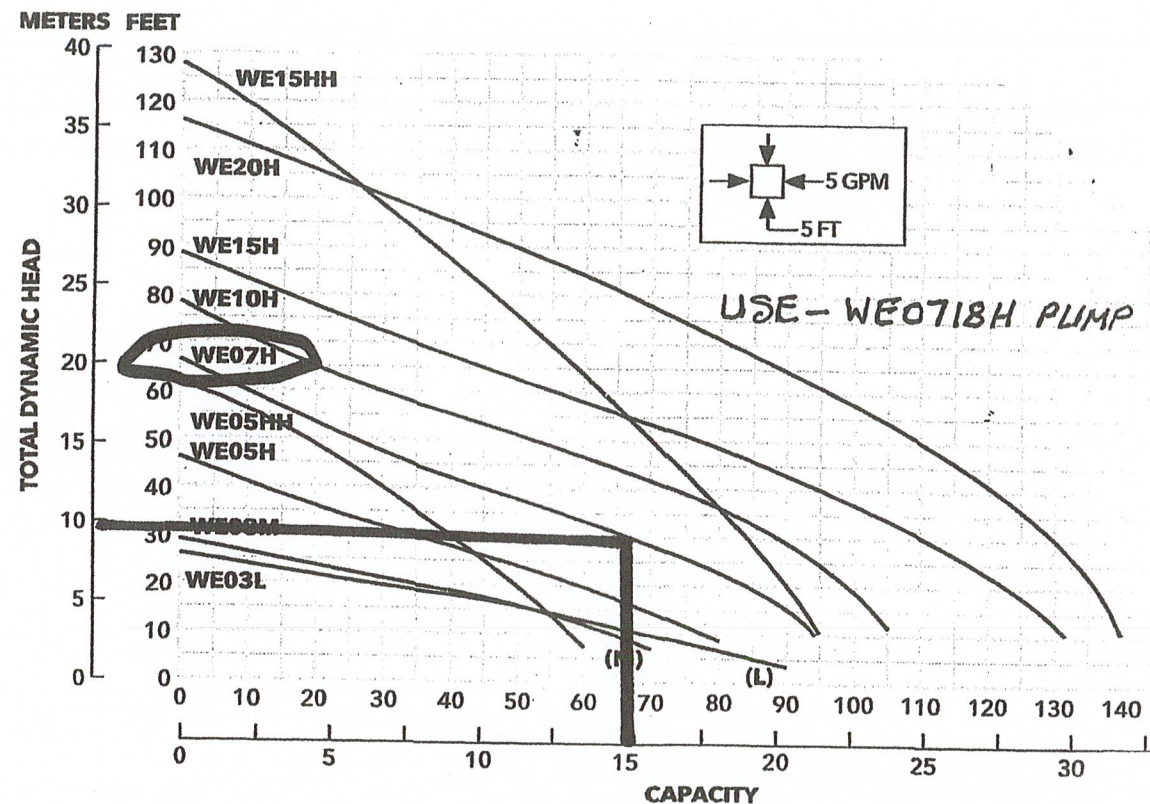
It is recommended that the grease trap be a 750 gallon concrete tank (Woodard GT-750). The line from the sinks to the grease trap are 2"d PVC, going into a 4"d PVC just before the grease trap inlet. The outlet pipe is 4"d and would connect to the bakery septic line before entering the septic tank (Woodard ST-1000)

	Model	Length	Width	Height	Inlet	Outlet	Weight	Covers
	GT-750	102"	58"	56"	46"	43"	6,900	2-24"
	GT-1000	102"	58"	65"	55"	51"	8,700	2-24"
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	GT-3000	144"	78"	94"	82"	79"	16,000	12"x16" 22"x29" 20"
Specifications					Precast Grease Trap Tanks Non-Traffic Design 750 to 3,000 Gallons			
Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: #4 bar gr. 60, Forta Ferro 5 lb/cy Air Entrainment: 6% Construction Joint: Butyl Rubber Sealant Pipe Connection: Polylok Seal (patented) Weight varies Load Rating: 300 psf					WOODARD'S CONCRETE PRODUCTS, INC. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050 Page 7A 1/11/16			

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PUMP CALCULATIONS

FIELD CAPACITY: 4" d PIPE: $2(40') + 5' = 85'$
 2" d PIPE: 120' (FROM PLAN) = 120'

FIELD VOLUME: 4" PIPE: $85 \text{ LF} \times 0.6526 \text{ G/LF} \times 80\% = 44.4 \text{ G}$
 2" PIPE: $120 \text{ LF} \times 0.163 \text{ G/LF} \times 80\% = 15.6 \text{ G}$
 TOTAL = 60.0 G SAY 60 G

USING A 4' DIA CONCRETE PUMP CHAMBER PC-4x4

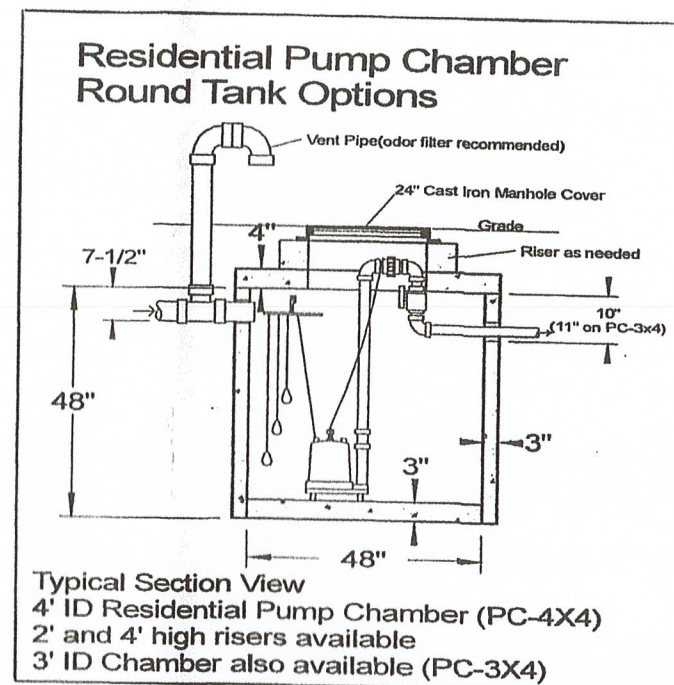
PUMP/TANK MEASUREMENTS:

DOSING VOLUME : $60 \text{ G} / 94 \text{ G/VF} = 0.63' = 7.7" \text{ SAY } 8"$

ONE-DAY STORAGE : $140 \text{ G} / 94 \text{ G/VF} = 1.5' = 18"$

USEABLE STORAGE IN CHAMBER = $48" - 10" = 38"$

ALLOTING 8" FOR PUMP, 8" FOR DOSING, 3" FOR ALARM
 AND 18" FOR ONE-DAY STORAGE = 37" ok



Specifications

Concrete Min. Strength: 4,000 psi at 28 days
 Reinforcement: WWM & Rebar
 Air Entrainment: 6%
 Pipe Connection: Polylok Seal or Pipe Boots
 Volume: 3' ID = 53 gal/vf, 4' ID = 94 gal/vf
 Load Rating: 300 psf

Precast Pump Chambers Residential Grade

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PERCOLATION TEST RESULTS 8/30/2022				
HOLE	DEPTH	SOIL TYPE	SOAKED	TEST RESULT
PH 1	12"	GRAVEL LOAM	YES	5 TAB @ 10 MIN
PH 2	12"	GRAVEL LOAM	YES	5 TAB @ 11 MIN

DEEP HOLE TEST RESULTS		JUNE 30, 2022
DH 1	10" TOPSOIL 10" TO 32" GRAVELLY LOAM w/COBBLES 32" TO 38" MOTTLED CLAY	NO BEDROCK NO WATER MOTTLING AT 32"
DH 2	8" TOPSOIL 8" TO 34" GRAVELLY LOAM w/ COBBLES	NO BEDROCK NO WATER MOTTLING AT 34"

AN ENGINEER'S CONSTRUCTION CERTIFICATE IS TO BE SUBMITTED TO THE ULSTER COUNTY HEALTH DEPARTMENT PRIOR TO FINAL CONSTRUCTION APPROVAL.

THERE ARE NO EXISTING WELLS WITHIN 100' OF THE PROPOSED SEPTIC FIELD. THERE ARE NO EXISTING SEPTIC FIELDS WITHIN 100' OF THE PROPOSED WELL.

BASED UPON THE SOIL INFORMATION, A SHALLOW INFILTRATION TRENCH SYSTEM IS DESIGNED BASED UPON AN APPLICATION RATE OF 0.90 GALLON PER DAY PER SQ. FT.

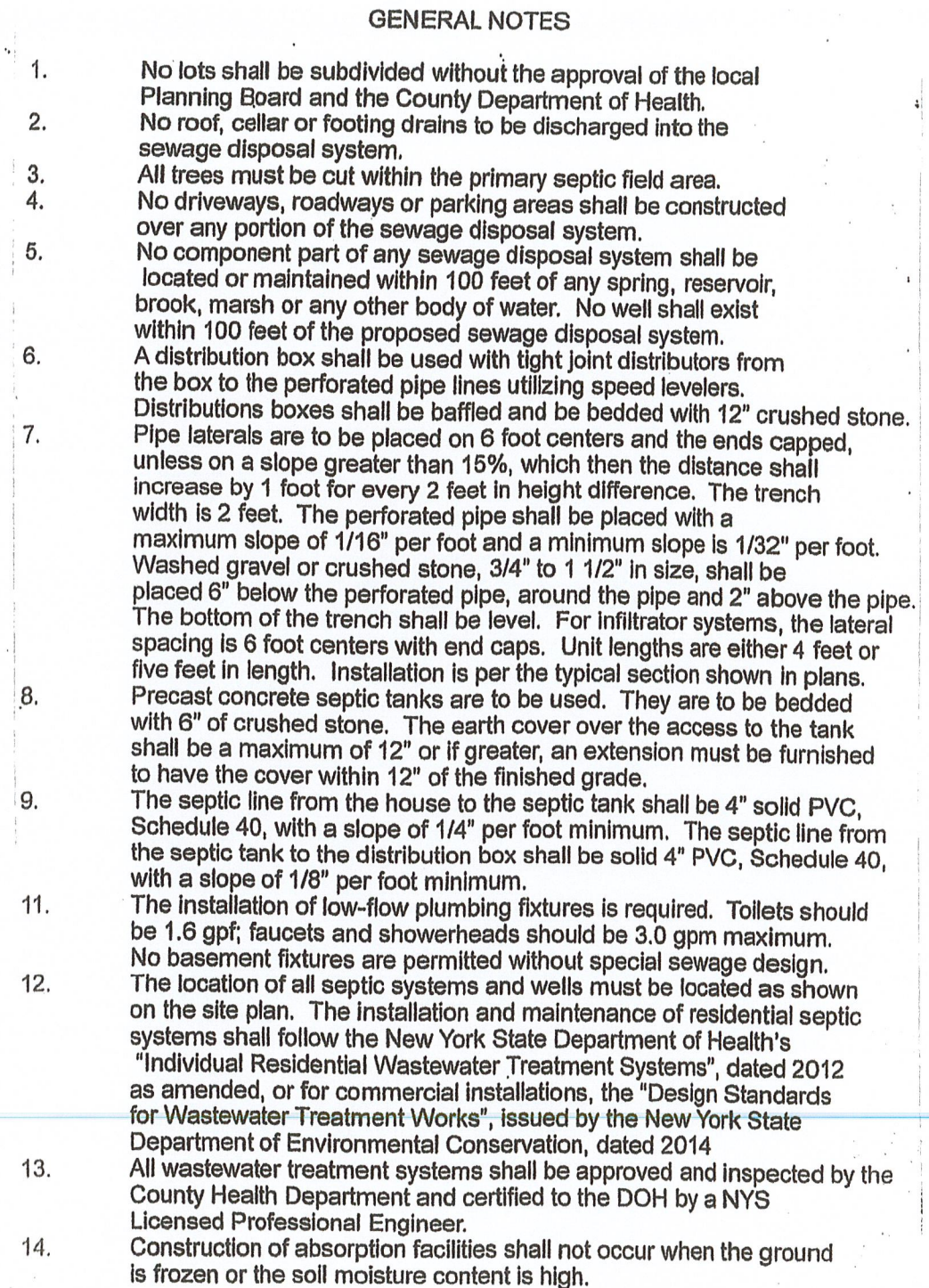
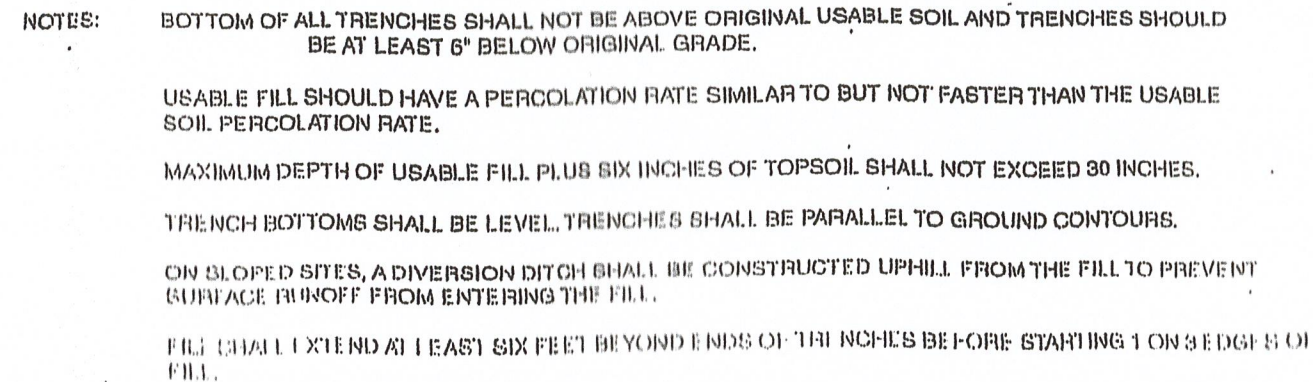
5

DATE 10/20/2022
 REVISION 31 2023
 DRAWING PUMP CHAMBER

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PROPOSED SEPTIC SYSTEM MAD BATTERS PASTRIES 578 ROUTE 44-55 HIGHLAND, NEW YORK TOWN OF MARLBOROUGH 95.2-2-10	SCALE AS SPECIFIED	LOUIS S. DUBOIS, P.E. 8 COOK LANE NEW PALTZ, NEW YORK (845) 691-2247 OFFICE (845) 691-6515 FAX (845) 224-1102 CELL louis@duboisoptimum.net	DATE 10/20/2022	6 JAN 31 2023 DRAWING SECTION GENERAL NOTES
	DRAWN BY LSD	REVISED		
	APPROVED LSD	DRAWING		