

BULK REQUIREMENTS

- 1. BOUNDARY AND TOPOGRAPHY TAKEN FROM SURVEY BY NEVILLE V. RAMSAY P.L.S. LIC# 050294-1, DATED JULY 02, 2025.
- 2. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA PROVIDED BY OTHERS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE EXISTING GAS AND ELECTRIC UTILITIES MUST BE LOCATED AND MARKED BEFORE CONSTRUCTION CAN START.
- 4. IT IS RECOMMENDED TO USED LEAF GUARD OR A SIMILAR PRODUCT ON ALL
- 5. FOR ALL UTILITY CONSTRUCTION & IMPROVEMENTS, THE APPLICANT SHALL RESTORE ALL PAVEMENT, CURB, SIDEWALK, ETC. TO MATCH THE EXISTING CONDITIONS.

RESIDENCE B DISTRICT (ZONE RB)

LOT DIMMENSIONS	REQUIRED	PROPOSED
MIN. AREA (SQ. FEET)	10,000	15,806.89
MIN. FRONTAGE (FEET)	50	90.00
MAX. BUILDING COVERAGE (%)	50	18.97
MIN. FRONT YARD SETBACK (FEET)	40	56.00
MIN. SIDE YARD (FEET)	15	15.00
MIN. REAR YARD SETBACK (FEET)	40	69.00
MAX. HEIGHT (STORIES)	2	TBD
MAX. HEIGHT (FEET)	35	TBD
PARKING	REQUIRED	EXISTING
PARKING SPACES	2 PER UNIT	2

$\frac{75\text{-A.6 SEPTIC TANK (NEW YORK STATE DESIGN STANDARDS FOR INTERMEDIATE SIZED}{\text{WASTEWATER TREATMENT SYSTEMS)}}$

TABLE 3						
N	MINIMUM SEPTIC TANK C	CAPACITIES				
Number of Bedrooms	Minimum Tank Capacity (gallons)	Minimum Liquid Surface Area (ft²)				
1, 2, 3	1,000	27				
4	1,250	34				
5	1,500	40				
6	1,750	47				

Tank size requirements for more than six (6) bedrooms shall be calculated by adding 250 gallons and seven (7) square feet of surface area for each additional bedroom. b) A garbage grinder shall be considered equivalent to an additional bedroom for determining septic tank size.

c) A whirlpool bath or spa (connected to house plumbing) should be considered equivalent to an additional bedroom for determining septic tank size.

SEPTIC TANK CALCULATIONS:

MINIMUM TANK CAPACITY: 1,250 GALLONS TANK CAPACITY PROVIDED: 1,250 GALLONS

MINIMUM LIQUID SURFACE AREA= 34 SF

MINIMUM LIQUID SURFACE AREA TO BE PROVIDED= 34 SF

75-A.6b DESIGN FLOW (NEW YORK STATE DESIGN STANDARDS FOR NTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS)

REQUIRED LENGTH OF ABSORPTION TRENCH (USING GEOTEXTILE SAND FILTER "ELGEN"):

PERCOLATION RATE= 11 MINUTES/INCH

FLOW RATE = 4 BEDROOMS X 110 GPD FLOW RATE = 440 GPD

Percolation	Application	2	2 Bedroon	n	3	Bedroon	n	4	4 Bedroon	n	Each A	dditional E	3edroom
Rate	Rate	Flo	w Rate (g	ıpd)	Flo	w Rate (g	ıpd)	Flo	w Rate (g	ıpd)	Flo	w Rate (g	ıpd)
(min/in)	(gpd/ft ²)	220	260	300	330	390	450	440	520	600	110	130	150
1 - 5	1.2	40	40	44	60	60	64	80	80	84	20	20	24
6 - 7	1.0	40	44	52	60	68	76	80	88	100	20	24	28
8 - 10	0.9	44	52	56	64	76	84	84	100	112	24	28	28
11 - 15	0.8	48	56	64	72	84	96	92	112	128	24	28	32
16 - 20	0.7	56	64	72	80	96	108	108	124	144	28	32	36
21 - 30	0.6	64	76	84	92	112	128	124	148	168	32	40	44
31 - 45	0.5	76	88	100	112	132	152	148	176	200	40	44	52
46 - 60	0.5	84	100	112	124	148	168	164	196	224	44	52	56

Percolation	Application	2	2 Bedroon	n	:	Bedroon	n	4	Bedroon	n	Each Ad	dditional E	Bedroom
Rate	Rate		w Rate (g	ıpd)	Flo	w Rate (g	ıpd)	Flo	w Rate (g	pd)	Flo	w Rate (g	ıpd)
(min/in)	(gpd/ft ²)	220	260	300	330	390	450	440	520	600	110	130	150
1 - 5	1.2	10	10	11	15	15	16	20	20	21	5	5	6
6 - 7	1.0	10	11	13	15	17	19	20	22	25	5	6	7
8 - 10	0.9	11	13	14	16	19	21	21	25	28	6	7	7
11 - 15	0.8	12	14	16	18	21	24	23	28	32	6	7	8
16 - 20	0.7	14	16	18	20	24	27	27	31	36	7	8	9
21 - 30	0.6	16	19	21	23	28	32	31	37	42	8	10	11
31 - 45	0.5	19	22	25	28	33	38	37	44	50	10	11	13
46 - 60	0.5	21	25	28	31	37	42	41	49	56	11	13	14

SIZE ABSORPTION TRENCHES:

REQUIRED LENGTH: 92 FT

IT WILL BE USED 4 TRENCHES (26 FT/ 6 MODULES EACH ONE) WITH CENTRAL MANIFOLD DISTRIBUTION

DIMENSIONS OF THE ABSORPTION AREA:

WIDTH
4 TRENCHES EACH 4FT WIDE/TRENCH + 3 INTERNAL SPACING FOR
USABLE SOIL EACH 4FT WIDE + 2 EXTERNAL SPACING FOR
USABLE SOIL EACH 1FT WIDE
WIDTH = 30 FT

LENGTH = 24 FT + 2 EXTERNAL SPACING FOR USABLE SOIL EACH LENGTH =26 FT

EXPANSION AREA (50% OF ABSORPTION AREA)

REQUIRED LENGTH= 92 FT X 0.50 = 46 FT

IT WILL BE USED 3 TRENCHES (18 FT/4 MODULES EACH ONE) WITH CENTRAL MANIFOLD DISTRIBUTION

3 TRENCHES EACH 4FT WIDE/TRENCH + 2 INTERNAL SPACING FOR USABLE SOIL EACH 4FT WIDE + 2 EXTERNAL SPACING FOR USABLE SOIL EACH 1FT WIDE

WIDTH = 22 FT

<u>LENGTH</u>
LENGTH = 16 FT + 2 EXTERNAL SPACING FOR USABLE SOIL EACH LENGTH =18 FT

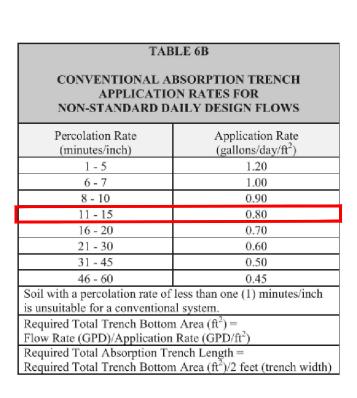


TABLE 1

DAILY DESIGN FLOWS

Minimum Design Flow (gallons/day/bedroom)

130

150

Plumbing Fixtures

(based on manufactured date)

Post-1994 Fixtures

1.6 gallons/flush toilets 2.5 gallons/minute faucets & showerheads Pre-1994 Fixtures 3.5 gallons/flush toilets

3.0 gallons/minute faucets & showerheads

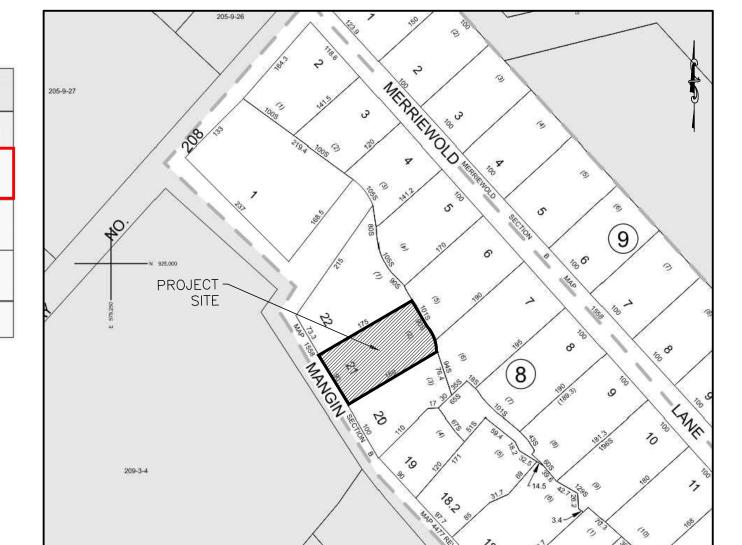
Pre-1980 Fixtures

3.5+ gallons/flush toilets

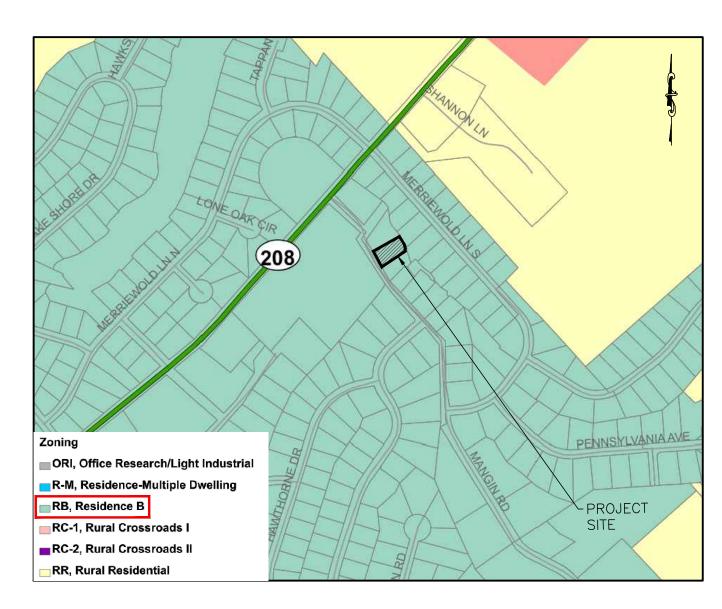
3.0+ gallons/minute faucets & showerheads

Waterless Toilets (e.g., composter)

(greywater discharge only)



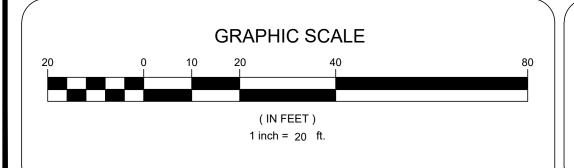
VICINITY MAP



ZONE MAP NTS

	T A DI D			
	TABLE			
SEPARATION DIS	TANCES FROM WAST		COMPONEN	Γ S
	(IN FEE	T)		
		To Stream, Lake,		
System Components	Well or Suction Line	watercourse (b), or	Dwelling	Property Lin
	(e)(g)	Wetland		
House sewer	25 if cast iron sewer			
(watertight joints)	pipe, 50 otherwise	25	3	10
Septic tank or watertight ETU	50	50	10	10
Effluent line to distribution box	50	50	10	10
Distribution box	100	100	20	10
Absorption field (c)(d)	100 (a)	100	20	10
Seepage pit(d)	150 (a)	100	20	10
Raised or Mound system (c)(d)	100 (a)	100	20	10
Intermittent Sand Filter (d)	100 (a)(f)	100 (f)	20	10
Non-Waterborne Systems with	50	50	20	10
offsite residual disposal				
Non-Waterborne Systems with	100	50	20	10
onsite discharge				







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					•
•	NO	DEVICION		DR/CK	
	NO.	REVISION	DATE	DR/CK (LIC. 103757

JOSIP MEDIC, PE

	CO	ONCEPT PLAN	l
	DESIGN BY:	DRAWN BY:	CHECKED BY:
DATE	YB	YR	JM

9 MANGIN ROAD

9 MANGIN RD, VILLAGE OF SOUTH BLOOMING GROVE TOWN OF BLOOMING GROVE, ORANGE COUNTY, NY 10950 SBL 209-8-21

DRAWING NUMBER:	SCALE:	FILE NO.:	DATE:
01 of 01	1": 20'	25148	07/17/2025