



PROPERTY INFORMATION

BOOK AND PAGE:	L 5977 P 0215
SECTION-BLOCK-LOT:	103-3-68
PARCEL AREA:	4.9 ACRES
ZONING DISTRICT:	RAG-1 AGRICULTURAL RESIDENCE
OWNER/APPLICANT:	ROYAL ENERGY PROPERTIES 9 HAYES CT 201 MONROE, NEW YORK 10950

WASTEWATER SYSTEM DESIGN CALCULATIONS

PROPOSED WASTEWATER FLOW:
150 GPD PROPOSED (10 EMPLOYEES @15 GPD)

PER NYS DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS
- THE REQUIRED MINIMUM TANK CAPACITY (GAL) FOR A DAILY FLOW OF UNDER 5,000 GPD IS $1.5 \times Q$ (GPD)*DAY

= $1.5 \times 150 \text{ GPD} \times 1 \text{ DAY}$
= 225 GALLON SEPTIC TANK REQUIRED
= 1,000 GALLON SEPTIC TANK PROVIDED

ABSORPTION FIELD:
PRIMARY AREA - IN-GROUND ABSORPTION TRENCH SYSTEM REQUIRED

LENGTH OF ABSORPTION TRENCH=

(FLOW RATE (Q) ÷ APPLICATION RATE) ÷ 2 SQUARE FEET/FOOT OF TRENCH
= $(150 \text{ GPD} ÷ 0.8 \text{ GAL/DAY/SQ. FT.}) ÷ 2 \text{ SQ. FT./FT.}$
= 94 LINEAL FEET OF ABSORPTION TRENCH

INSERT 3 TRENCHES @ 35 LINEAL FEET
=105 LINEAL FEET OF TRENCH PROVIDED

RESERVE AREA - IN-GROUND ABSORPTION TRENCH SYSTEM REQUIRED

LENGTH OF ABSORPTION TRENCH=

(FLOW RATE (Q) ÷ APPLICATION RATE) ÷ 2 SQUARE FEET/FOOT OF TRENCH
= $(150 \text{ GPD} ÷ 0.6 \text{ GAL/DAY/SQ. FT.}) ÷ 2 \text{ SQ. FT./FT.}$
= 125 LINEAL FEET OF ABSORPTION TRENCH

INSERT 3 TRENCHES @ 43 LINEAL FEET
=129 LINEAL FEET OF TRENCH PROVIDED

PERCOLATION TEST RESULTS

TEST	HOLE DEPTH	STABILIZED RATE
PT-1	24"	29 M
PT-2	24"	11 M

NOTE: PERCOLATION TESTING WAS CONDUCTED BY WILLINGHAM ENGINEERING ON 8/1/19.

DEEP TEST RESULTS

LOT	TEST	ROCK DEPTH	WATER DEPTH	SOIL PROFILE
1	DT-4	--	--	0"-9" - TOP SOIL 9"-48" - SILTY LOAM
1	DT-5	--	--	0"-9" - TOP SOIL 9"-48" - SILTY LOAM

NOTES:
1. DEEP TESTS WERE COMPLETED ON JULY 31, 2019 BY WILLINGHAM ENGINEERING.



willingham
engineering

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REV	DATE	DESCRIPTION

PROPOSED SANITARY DISPOSAL PLAN

ROYAL ENERGY

1666 ROUTE 9W

TOWN OF MILTON, ULSTER COUNTY, NEW YORK

DRAWN BY
DVG
DATE
08/06/19
CHECKED BY
SCALE
AS NOTED
PROJECT NO.
19032
SHEET NO.
SA-1