



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*(Q) (GPD)*DAY
=	1.5*(150 GPD)*1 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 GPD * 0.8 GAL/DAY/SQ. FT.) ÷ 2 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 GPD * 0.6 GAL/DAY/SQ. FT.) ÷ 2 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

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.



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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