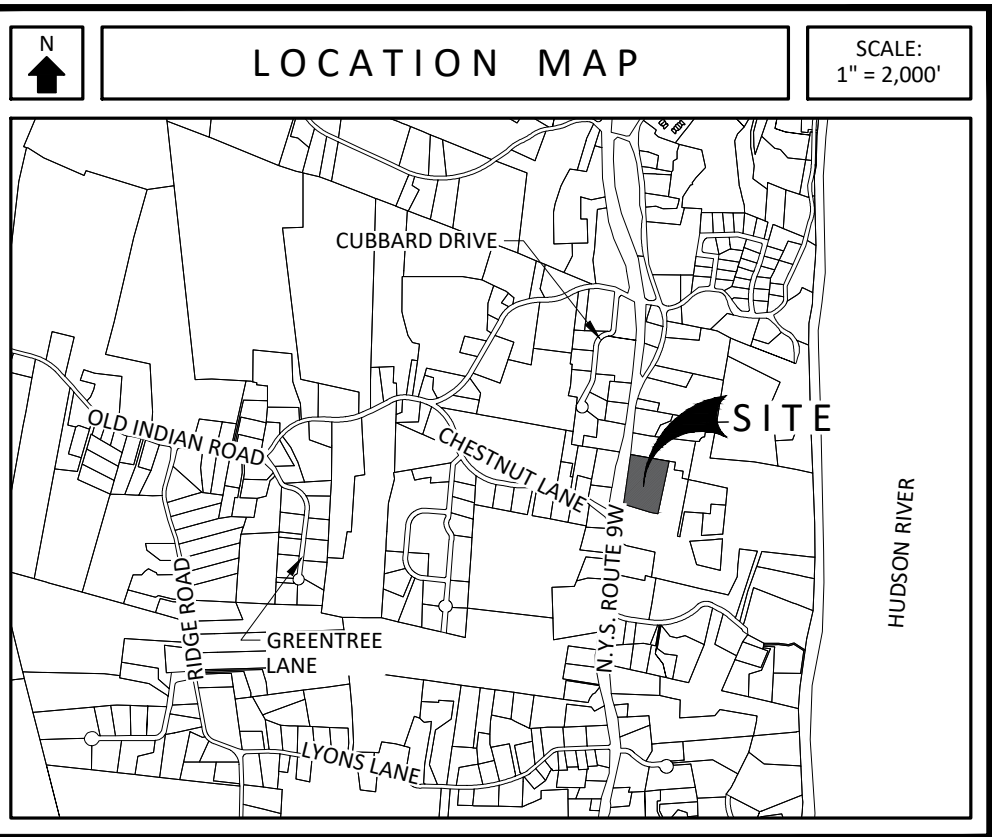


1 SITE PLAN
SA-1 SCALE: 1"=40'

LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING IRON PIPE
- EXISTING BOLLARD
- EXISTING WELL
- EXISTING DRAINAGE CATCH BASIN
- EXISTING EDGE OF PAVEMENT
- UTILITY POLE & OVERHEAD LINE
- UTILITY POLE WITH GUY WIRE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING TREE LINE
- EXISTING STREAM/DITCH
- EXISTING STONE WALL
- EXISTING SITE FEATURE
- EXISTING GUIDE RAIL
- EXISTING BUILDING
- EXISTING PAVEMENT
- EXISTING GRAVEL
- EXISTING RETAINING WALL
- EXISTING WATER
- ACOE WETLAND AREA
- PERCOLATION TEST LOCATION
- DEEP TEST LOCATION
- EXISTING TREE
- PROPOSED PRIMARY SANITARY DISPOSAL SYSTEM
- PROPOSED RESERVE SANITARY DISPOSAL SYSTEM



PROPERTY INFORMATION

BOOK AND PAGE:	L 5977 P 0215
SECTION-BLOCK-LOT:	103.3-3-68
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*1DAY
= 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

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.



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willingham
engineering

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T 845.255.0210 F 845.256.8110
www.willinghamengineering.com

REV	DATE	DESCRIPTION

PROPOSED SANITARY DISPOSAL PLAN

ROYAL ENERGY

1666 ROUTE 9W

TOWN OF MILTON, ULSTER COUNTY, NEW YORK

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