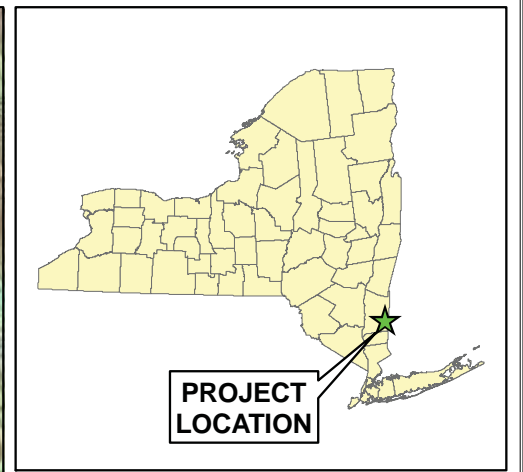
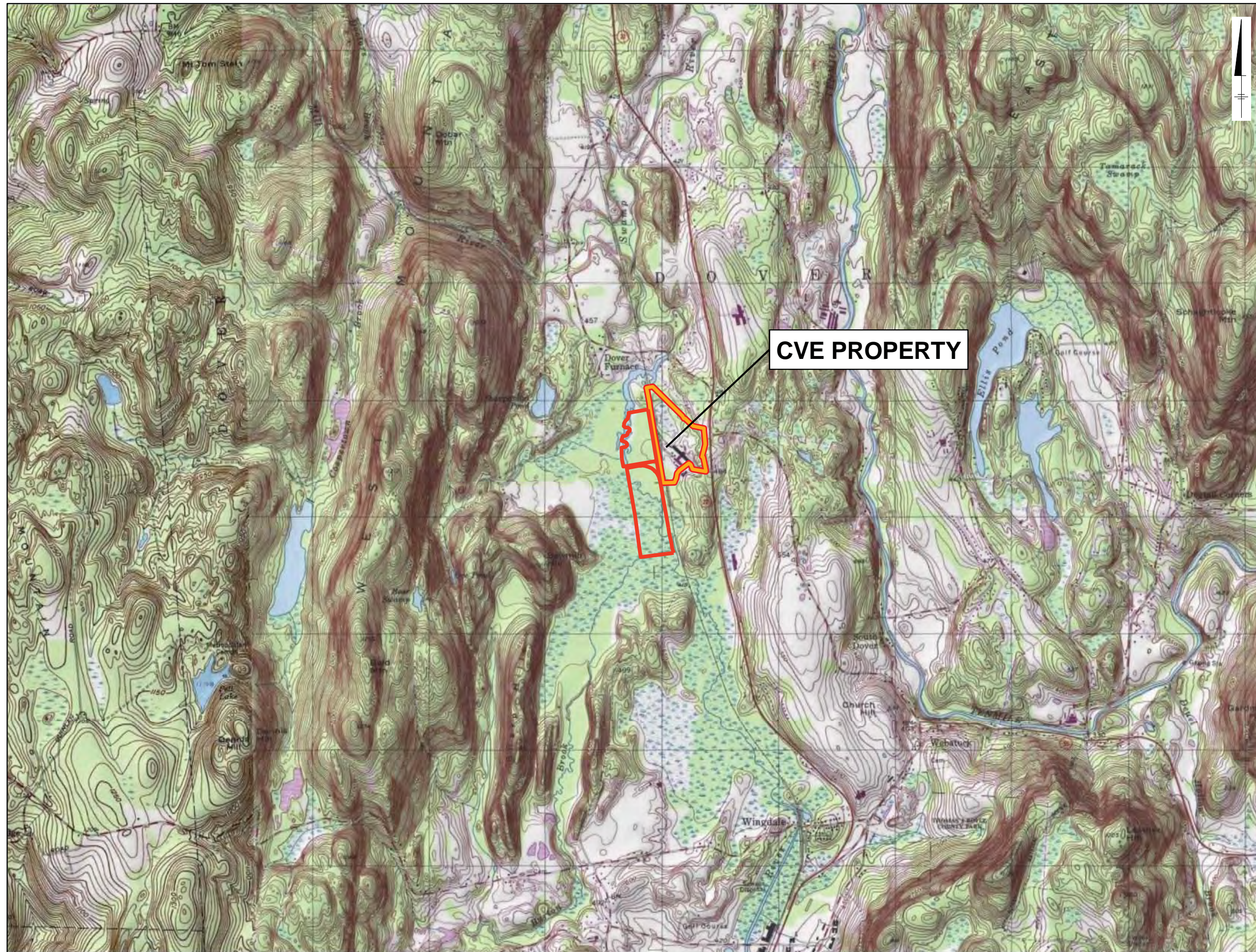


**Draft Environmental
Impact Statement**



Cricket Valley Energy Project – Dover, NY

Section 1 – Figures

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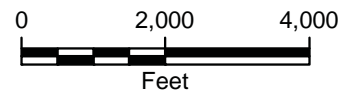


Legend

-  Property
-  Project Development Area

CVE PROPERTY

SOURCE:
U.S. Geological Survey, 7.5 x 15
Minute Quadrangle, Dover Plains,
NY/CT, Verbank, NY



GRAPHIC SCALE

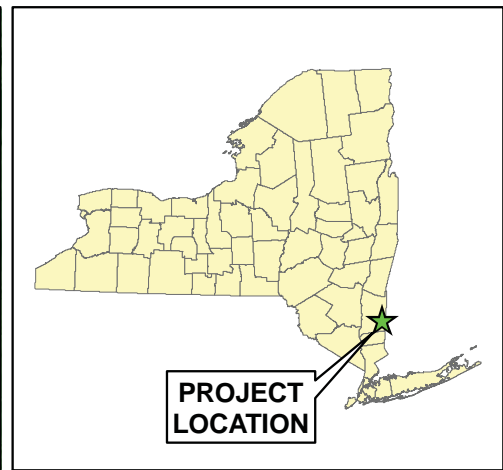
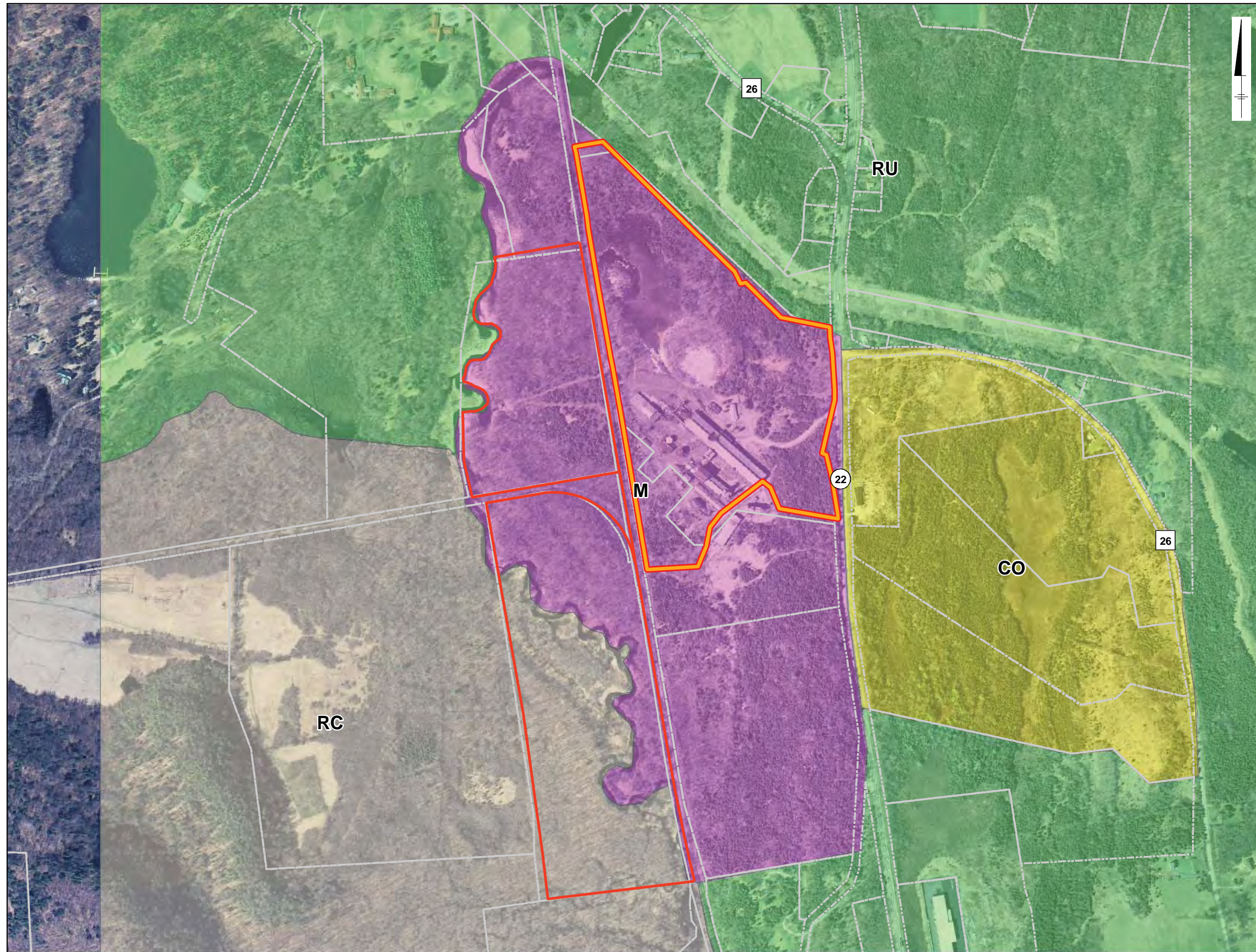


**CRICKET VALLEY
ENERGY**








**FIGURE 1-1
PROJECT LOCATION**

Town of Dover, Dutchess County, New York

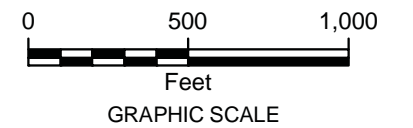
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Legend

-  Property
 -  Project Development Area
 -  Approximate Parcel Boundary
- Approximate Land Use Districts
-  RU- Rural
 -  RC - Recreation
 -  CO - Commercial
 -  M - Manufacturing

SOURCE:
 1. Aerial - Dutchess County 1-foot Resolution
 2004 Natural Color Orthoimagery
 NYS Digital Orthoimagery Program
 NYS Office of Cyber Security & Critical
 Infrastructure Coordination

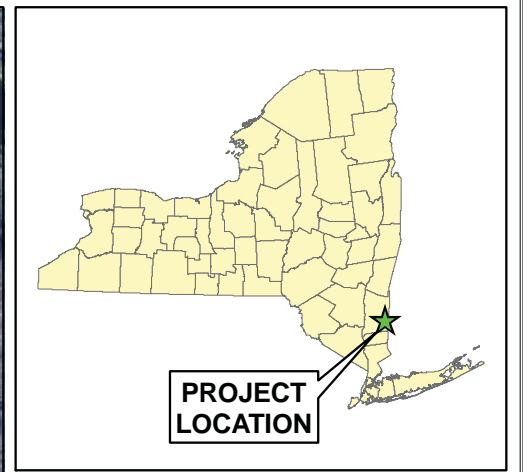


**CRICKET VALLEY
 ENERGY**




**FIGURE 1-2
 LAND USE DISTRICT MAP**

Town of Dover, Dutchess County, New York

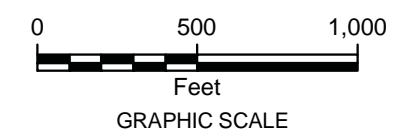
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Legend

-  Property
-  Project Development Area
-  Approximate Parcel Boundary

SOURCE:
 1. Aerial - Dutchess County 1-foot Resolution
 2004 Natural Color Orthoimagery
 NYS Digital Orthoimagery Program
 NYS Office of Cyber Security & Critical
 Infrastructure Coordination

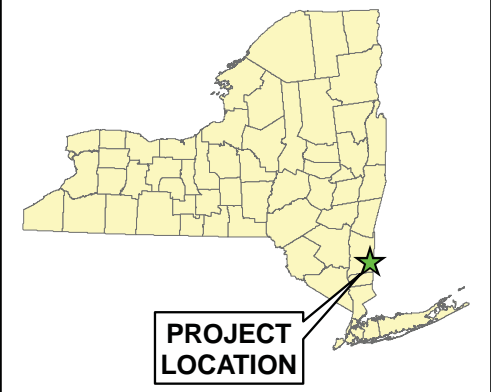
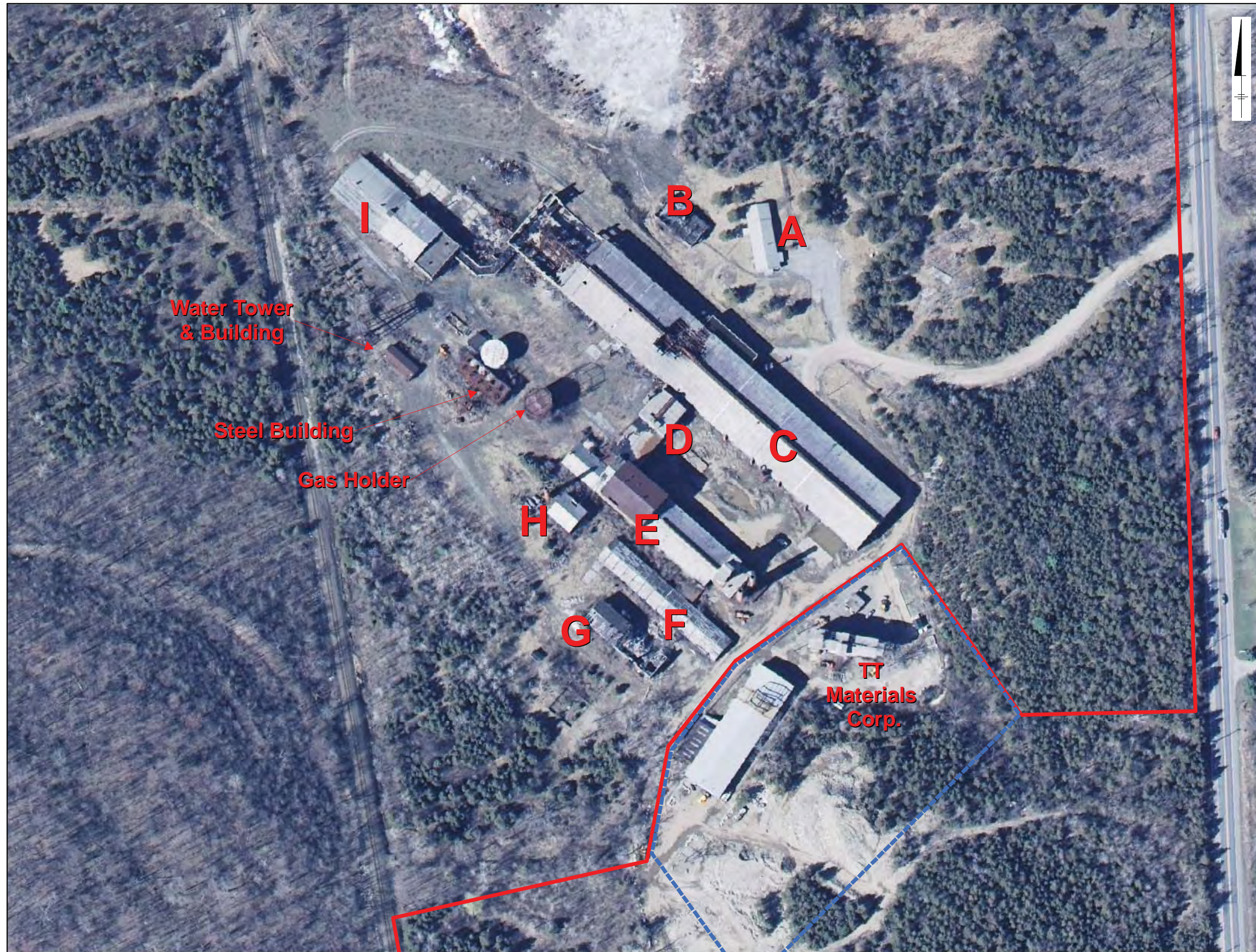


CRICKET VALLEY ENERGY

**FIGURE 1-3
ADJOINING
PROPERTY OWNERS**

Town of Dover, Dutchess County, New York

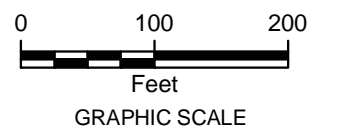
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Legend

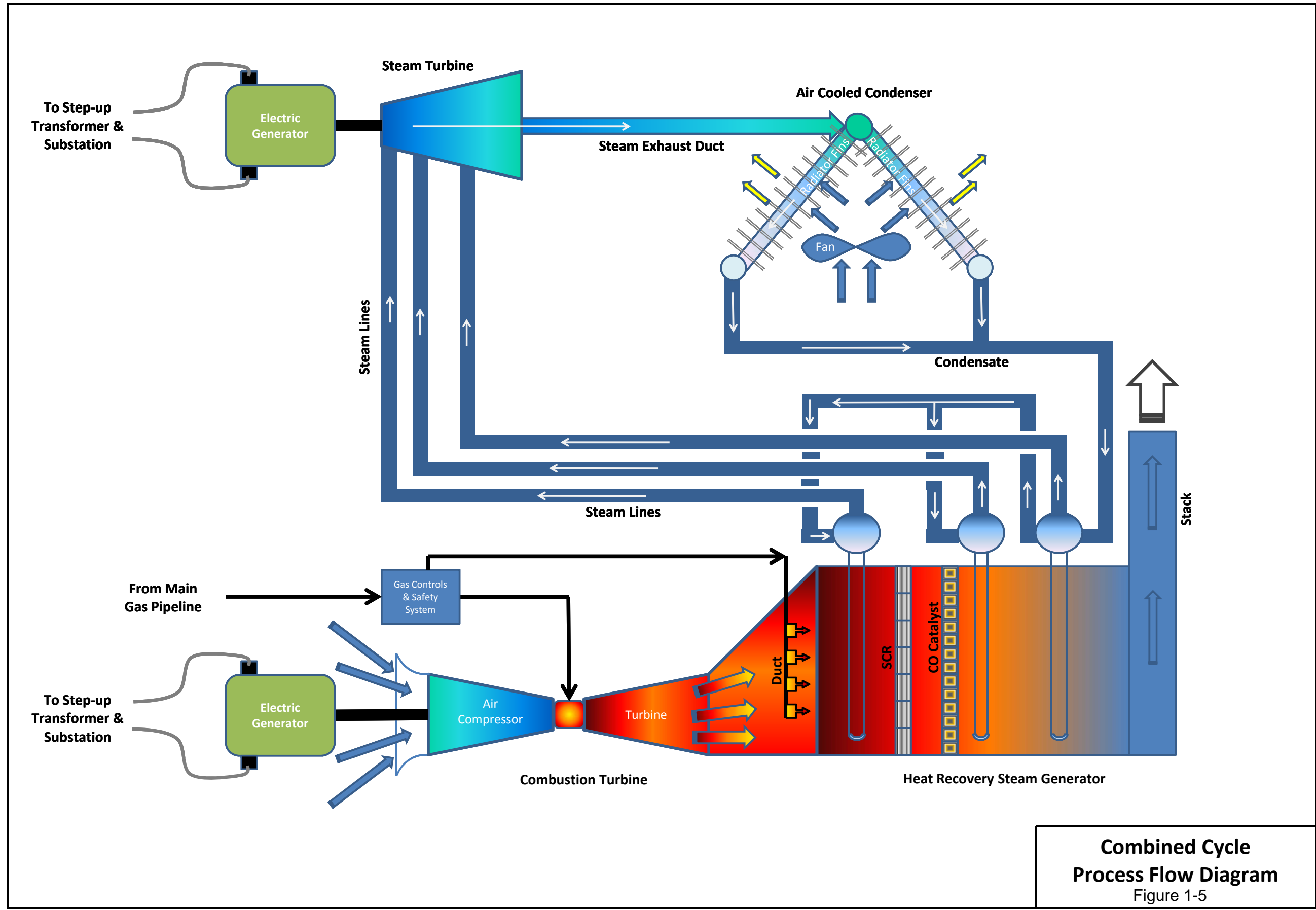
 Property

SOURCE:
Dutchess County 12-inch Resolution
2004 Natural Color Orthoimagery
NYS GIS Clearinghouse

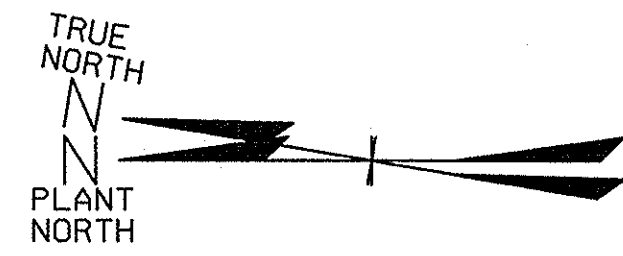


**FIGURE 1-4
SITE BUILDINGS MAP**

Town of Dover, Dutchess County, New York

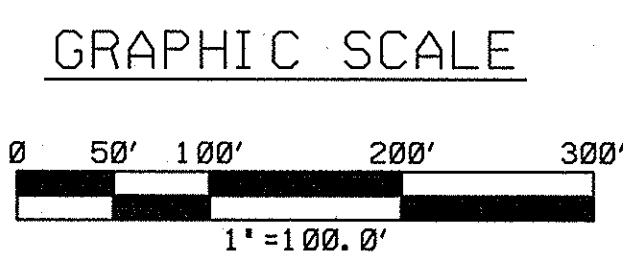
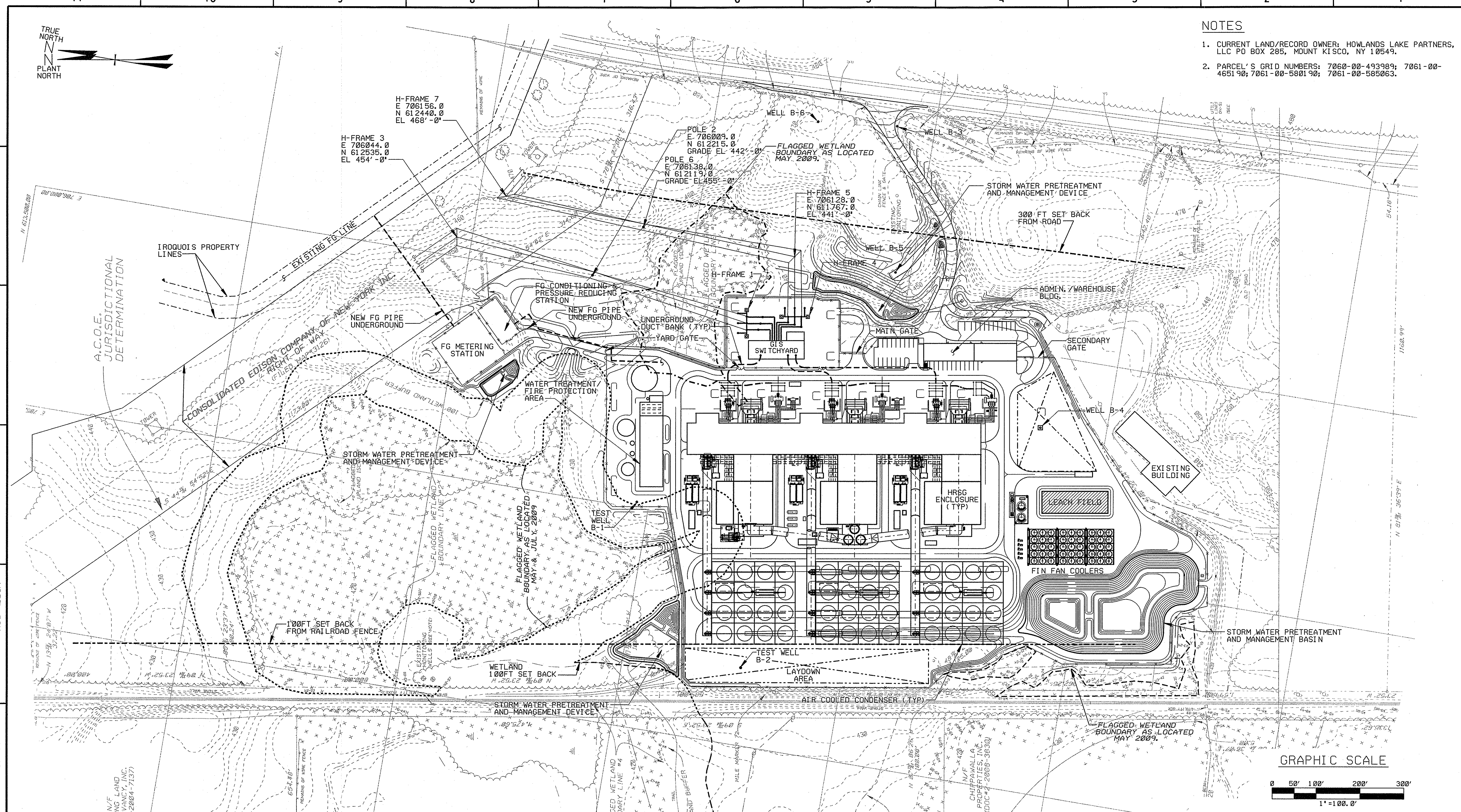


**Combined Cycle
Process Flow Diagram**
Figure 1-5



NOTES

- CURRENT LAND/RECORD OWNER: HOWLANDS LAKE PARTNERS, LLC PO BOX 285, MOUNT KISCO, NY 10549.
- PARCEL'S GRID NUMBERS: 7060-00-493989; 7061-00-465190; 7061-00-580190; 7061-00-585063.



Rev No	Revision	Date	Dwn	Chkd	Approved Chief Engr
S	REVISED SWITCHYARD AND ARRANGEMENT OF TRANSMISSION LINE POLES/FRAMES.	08/4/10	SM	JGF	JGF

Rev No	Revision	Date	Dwn	Chkd	Approved Chief Engr
N	ISSUED FOR PERMITTING	10/6/09	JGF	JGF	JGF
P	REVISED TO INCLUDE HRSG AND GENERATOR ENCLOSURES	10/29/09	JFH	JGF	JGF
Q	GENERAL REVISION	6/24/10	ZU	JGF	JGF
R	ADDED: WELLS 5&6. REVISED: SWITCHYARD ARRANGEMENT AND RELOCATED TRANSMISSION LINE POLES.	7/22/10	JGF	JGF	JGF

Drawing Control				
Purpose	Approved By	Date	Released By	Date
For Information	JGF	9/10	JGF	9/10
For Comment				
For Bidding				
For Fabrication				
For Construction				

JORGE E. FERRERO
 STATE OF NEW YORK
 LICENSED PROFESSIONAL ENGINEER
 No. 12110
 NEW YORK PROFESSIONAL ENGINEER NO. 06282-1

Engineering Review	
Disc	Engr
Mech	
Elec	
Civil	
Arch	
Instr	

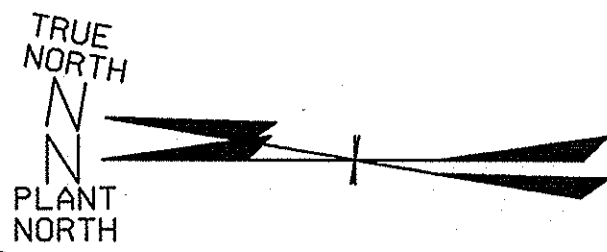
advanced power CRICKET VALLEY ENERGY
 TOWN OF DOVER
 DUTCHESS COUNTY, NEW YORK

Figure 1-6 GENERAL ARRANGEMENT PLOT PLAN STUDY

BURNS AND ROE ENTERPRISES, INC.
 Engineers and Constructors - Oradell, NJ
 New York Certificate of Authorization No. 0004677

Approved for Construction Work Order 3000
 Chief MECHANICAL Engineer Scale 1:100.0' Drawing No. M200 Sh. Rev. S

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LEGEND (CONT'N)

- 32. DUCT FIRING SKID
- 33. OIL/WATER SEPARATOR
- 34. GAS TURBINE WATER WASH DRAIN TANK
- 35. WASTE WATER HOLDING TANK
- 36. WATER TREATMENT BUILDING
- 37. CLOSED COOLING WATER PUMPS
- 38. MEDIUM VOLTAGE SWITCHGEAR
- 39. AUXILIARY BOILER
- 40. AIR COMPRESSORS/DRYERS/RECEIVER
- 41. CHEMICAL FEED SYSTEM
- 42. SAMPLE PANEL
- 43. LAYDOWN AREA
- 44. MECHANICAL BUILDING (VACUUM PUMPS/SJAE/ DRAIN TANK)
- 45. BLOWDOWN DRAIN TANK
- 46. ADMINISTRATION/CONTROL ROOM BUILDING
- 47. MAINTENANCE SHOP/WAREHOUSE BUILDING
- 48. FUEL GAS CONDITIONING & PRESSURE REDUCING STATION
- 49. RACK
- 50. BLACK START GENERATOR/EMERGENCY GENERATOR AREA
- 51. GIS SWITCHYARD BUILDING
- 52. STATIC FREQUENCY CONVERTERS
- 53. PARKING
- 54. MAIN GATE
- 55. STEAM TURBINE GENERATOR STEP UP TRANSFORMER
- 56. DRAIN COLLECTION TANK
- 57. SECONDARY GATE
- 58. SWITCHYARD AREA
- 59. BREAKER CABINET
- 60. HRSG ENCLOSURE
- 61. GAS TURBINE GENERATOR ENCLOSURE
- 62. H₂ STORAGE AREA

NOTES

- 1. CURRENT LAND/RECORD OWNER: HOWLANDS LAKE PARTNERS, LLC PO BOX 285, MOUNT KISCO, NY 10549.
- 2. PARCELS' GRID NUMBERS: 7060-00-493989; 7061-00-465190; 7061-00-580190; 7061-00-585063.

LEGEND

- 1. STACK (HRSG)
- 2. HEAT RECOVERY STEAM GENERATOR
- 3. GAS TURBINE
- 4. GAS TURBINE GENERATOR
- 5. GAS TURBINE INLET FILTER
- 6. ROTOR AIR COOLER (KETTLE BOILER TYPE)
- 7. ISOPHASE BUS DUCT
- 8. GENERATOR CIRCUIT BREAKER
- 9. AUXILIARY TRANSFORMER
- 10. GAS TURBINE GENERATOR STEP UP TRANSFORMER
- 11. FIN FAN COOLER
- 12. DEMINERALIZED WATER TRAILER AREA
- 13. DEMINERALIZED WATER STORAGE TANK
- 14. POTABLE WATER STORAGE TANK
- 15. SERVICE/FIRE WATER STORAGE TANK
- 16. FIRE PROTECTION PUMP HOUSE
- 17. STEAM TURBINE/GENERATOR
- 18. CONDENSATE PUMPS
- 19. AIR COOLED CONDENSER (ACC)
- 20. AIR COOLED CONDENSER PCC
- 21. BALANCE OF PLANT PCC
- 22. SECONDARY UNIT SUBSTATION
- 23. STEAM TURBINE PCC
- 24. TURBINE GENERATOR BUILDING
- 25. AMMONIA STORAGE TANK & FORWARDING PUMPS
- 26. AMMONIA UNLOADING AREA
- 27. SCR SKID
- 28. FUEL GAS PREHEATER
- 29. CONTINUOUS EMISSIONS MONITORING
- 30. BOILER FEEDWATER PUMPS
- 31. BOILER BLOWDOWN FLASH TANK

PRELIMINARY MAJOR EQUIPMENT COORDINATES (FEET)					
LEGEND NO	EQUIPMENT	± NORTH	± EAST	STACK/ EXHAUST DIAM	STACK/ EXHAUST HEIGHT
1	STACK - UNIT 1	611,539	705,509	19'	282'-6"
1	STACK - UNIT 2	611,529	705,535	19'	282'-6"
1	STACK - UNIT 3	611,511	705,514	19'	282'-6"
11	FIN FAN COOLER SOUTH WEST CORNER CELL'S FAN	610,945	705,559	13'	22'
16	FIRE PROTECTION PUMP EXHAUST	612,043	705,752	8'	50'
19	ACC 1 - NORTH WEST CORNER CELL'S FAN ±	611,781	705,248	34'	113'
19	ACC 2 - NORTH WEST CORNER CELL'S FAN ±	611,547	705,288	34'	113'
19	ACC 3 - NORTH WEST CORNER CELL'S FAN ±	611,313	705,327	34'	113'
39	AUXILIARY BOILER STACK	611,539	705,509	.	.
50	BLACK START GENERATOR STACK	611,539	705,509	.	.

ALL STACK/EXHAUST DIAMETERS AND HEIGHTS ARE PRELIMINARY
 * EQUIPMENT EXHAUSTS THROUGH THE STACK FOR UNIT 1

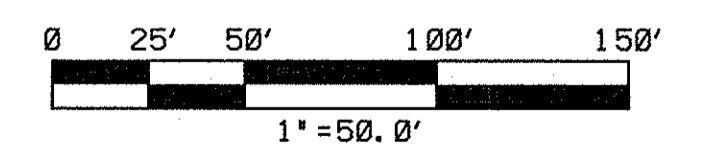
MAJOR EQUIPMENT DIMENSIONS		
LEGEND NO	EQUIPMENT	SIZE (FEET)
2	HEAT RECOVERY STEAM GENERATOR	60WX160LX116H
11	FIN FAN COOLER	80WX196LX22H
13	DEMIN WATER STORAGE TANK	40DI AX30H
14	POTABLE WATER STORAGE TANK	8DI AX15H
15	SERVICE/FIRE WATER STORAGE TANK	60DI AX50H
19	AIR COOLED CONDENSER	190WX190LX113H
25	AMMONIA STORAGE TANK	14DI AX26H
35	WASTE WATER HOLDING TANK	30DI AX30H
56	DRAIN COLLECTION TANK	10DI AX18H

ALL DIMENSIONS ARE PRELIMINARY

MAJOR STRUCTURE DIMENSIONS			
LEGEND NO	EQUIPMENT	SIZE (FEET)	AREA (FT ²)
24	GENERATION BUILDING	670LX73WX75H	53000
36	WATER TREATMENT BUILDING	50X195LX25H	9750
46	ADMINISTRATION/CONTROL ROOM BUILDING	40WX115LX15H	4600
47	MAINTENANCE SHOP/WAREHOUSE BUILDING	40WX95LX30H	3800
60	HRSG ENCLOSURE	128WX160LX113H	20480

ALL DIMENSIONS ARE PRELIMINARY

GRAPHIC SCALE

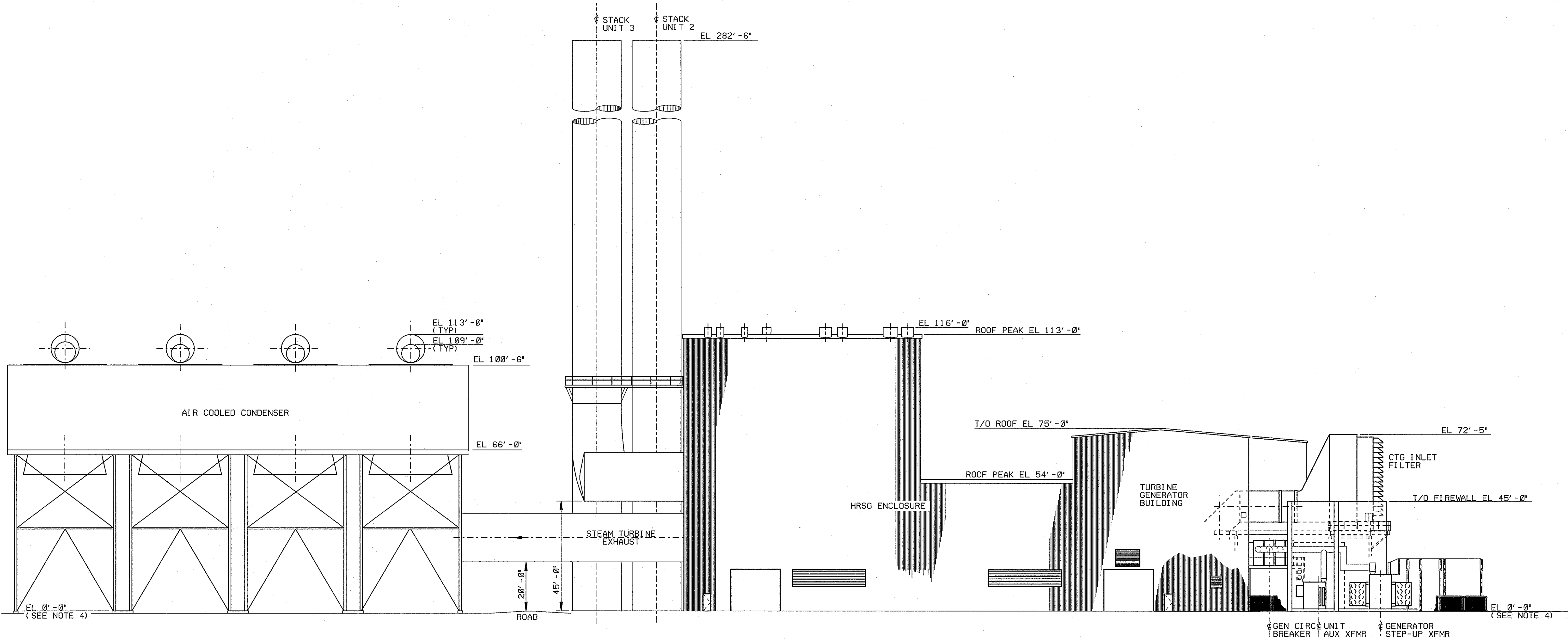


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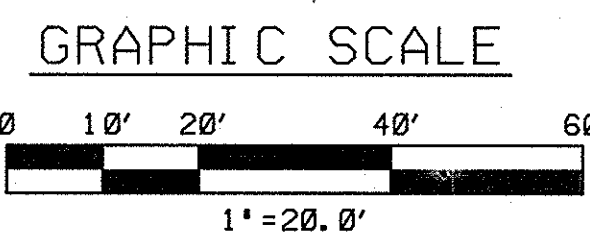
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Rev No	Revision	Date	Dwn	Chkd	Approved Chief Engr	Rev No	Revision	Date	Dwn	Chkd	Approved Chief Engr																																																																																																									
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NOTES

1. CURRENT LAND/RECORD OWNER: HOWLANDS LAKE PARTNERS, LLC PO BOX 285, MOUNT KISCO, NY 10549.
2. PARCEL'S GRID NUMBER: 7060-00-493989; 7061-00-465190; 7061-00-580190; 7061-00-585063.
3. ALL ELEVATIONS ARE PRELIMINARY.
4. FACILITY DATUM EL 0'-0" EQUALS TO EL 436'-0" ASL.

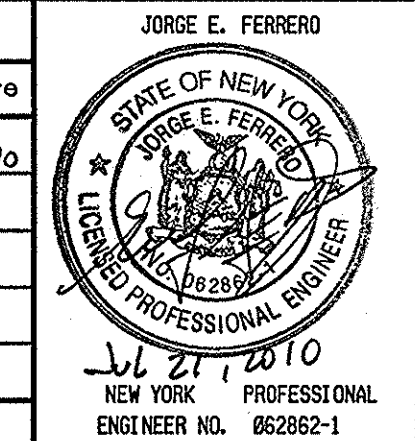


UNIT 3
ELEVATION LOOKING NORTH

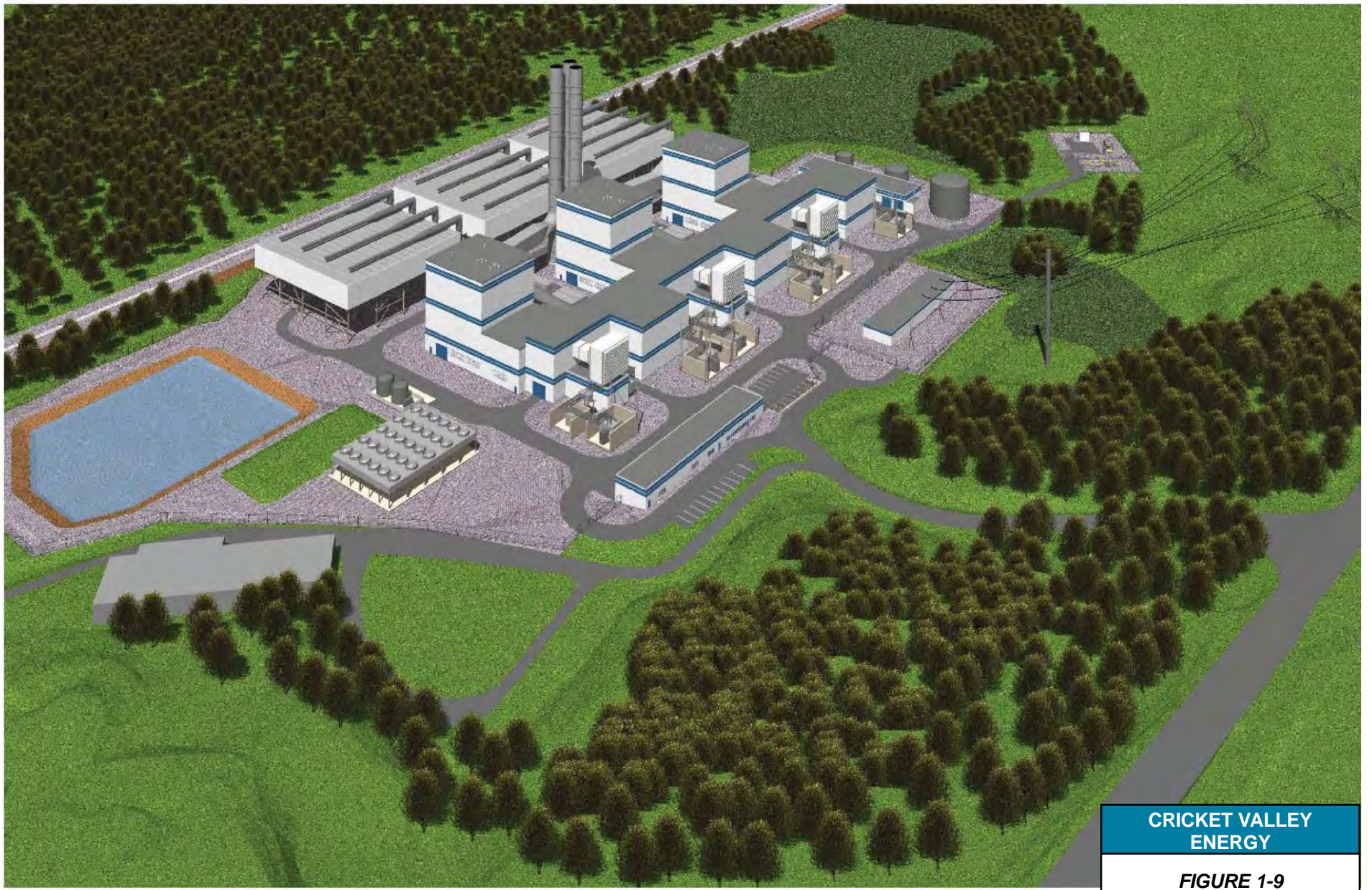


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Rev No	Revision	Date	Dwn	Chkd	Approved Chief Engr	Rev No	Revision	Date	Dwn	Chkd	Approved Chief Engr	Rev No	Revision	Date	Dwn	Chkd	Approved Chief Engr	Drawing Control				Engineering Review			Advanced Power		Cricket Valley Energy				
																			Purpose	Approved By	Date	Released By	Date	Disc	Engr	Date	TOWN OF DOVER		DUTCHESS COUNTY, NEW YORK		
E	ISSUED FOR PERMITTING	10/6/09		JGF															For Information	JGF	7/2/10	JGF	7/2/10				Figure 1-8		UNIT 3 ELEVATION LOOKING NORTH		
F	REVISED TO INCLUDE HRSG AND GENERATOR ENCLOSURES	10/29/09		JFH															For Comment							BURNS AND ROE ENTERPRISES, INC.		Engineers and Constructors - Oradell, NJ			
G	ADDED STACK AND FIREWALL ELEVATION; NOTE 4. DELETED STAIRWAY	07/10/10		JGF															For Bid							New York Certificate of Authorization No. 0004677					
H	ADDED: ACC FOUNDATION. REVISED: NOTE 4; STACK ELEVATION.	07/21/10		JGF															For Construction							Lead Engineer	Work Order	Approved for Construction	Drawing No	Sh	Rev
																										JGF	JGF	3000	M207		H



CRICKET VALLEY ENERGY
 TOWN OF DOVER
 DUTCHESS COUNTY, NEW YORK
 Figure 1-8
UNIT 3 ELEVATION LOOKING NORTH
BURNS AND ROE ENTERPRISES, INC.
 Engineers and Constructors - Oradell, NJ
 New York Certificate of Authorization No. 0004677
 Lead Engineer: JGF
 Work Order: 3000
 Approved for Construction: JGF
 Drawing No: M207
 Scale: 1"=20'-0"
 Chief MECHANICAL Engineer



**CRICKET VALLEY
ENERGY**


**FIGURE 1-9
FACILITY RENDERING**

Dutchess County, New York

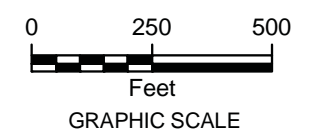
G:\projects\GIS\Projects\PP_Misc\20090511_Cricket\GIS\FIGURES\MIXDS\20110115_Section1\Fig1-10_CVEC_SiteLaydown_20110215.mxd - 2/15/2011 @ 3:27:28 PM



Legend

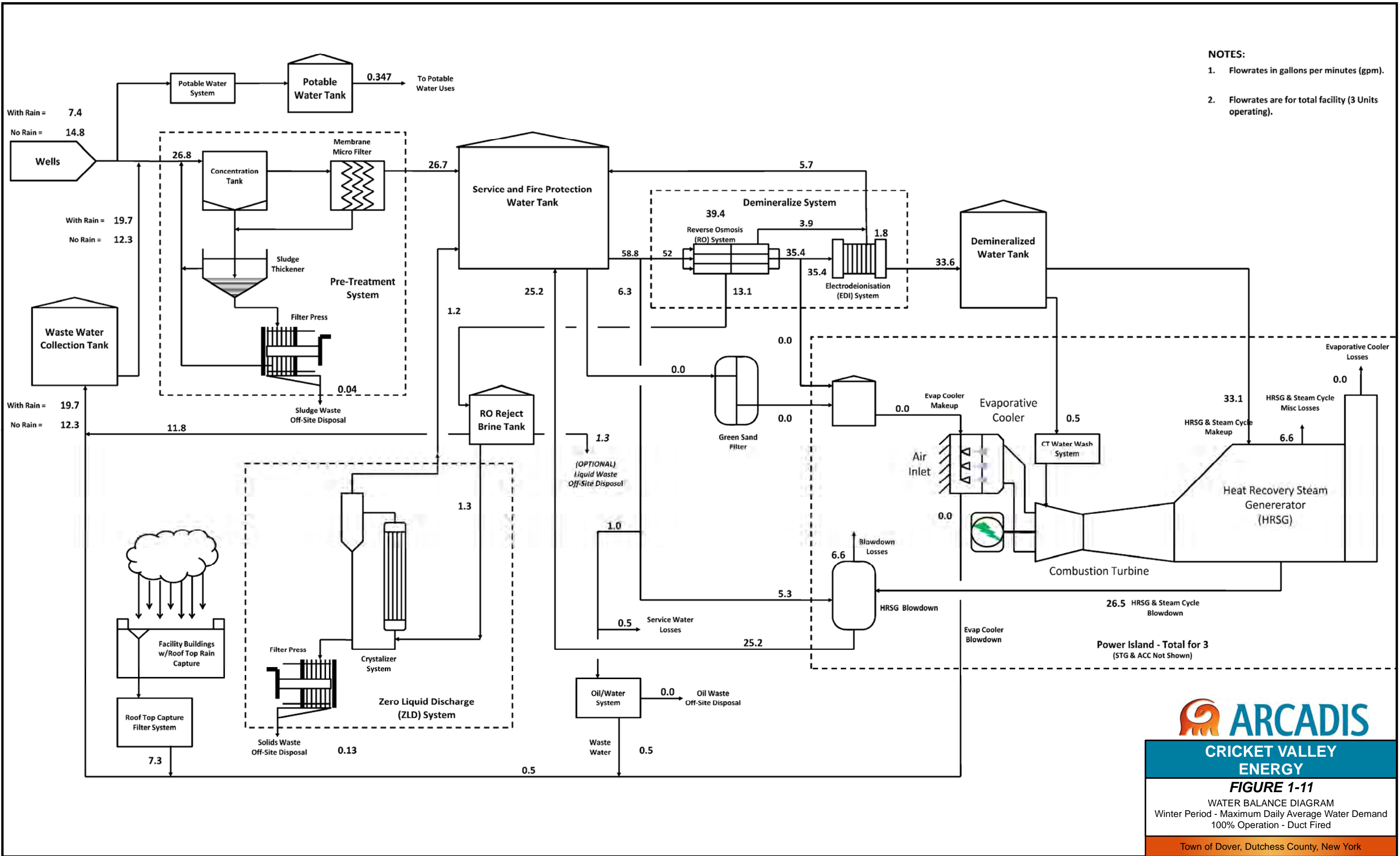
 Laydown Site Boundary

AERIAL SOURCE:
Dutchess County 12-inch Resolution
2004 Natural Color Orthoimagery
NYS Digital Orthoimagery Program
NYS Office of Cyber Security & Critical
Infrastructure Coordination



**FIGURE 1-10
LAYDOWN SITE**

Town of Dover, Dutchess County, New York



NOTES:

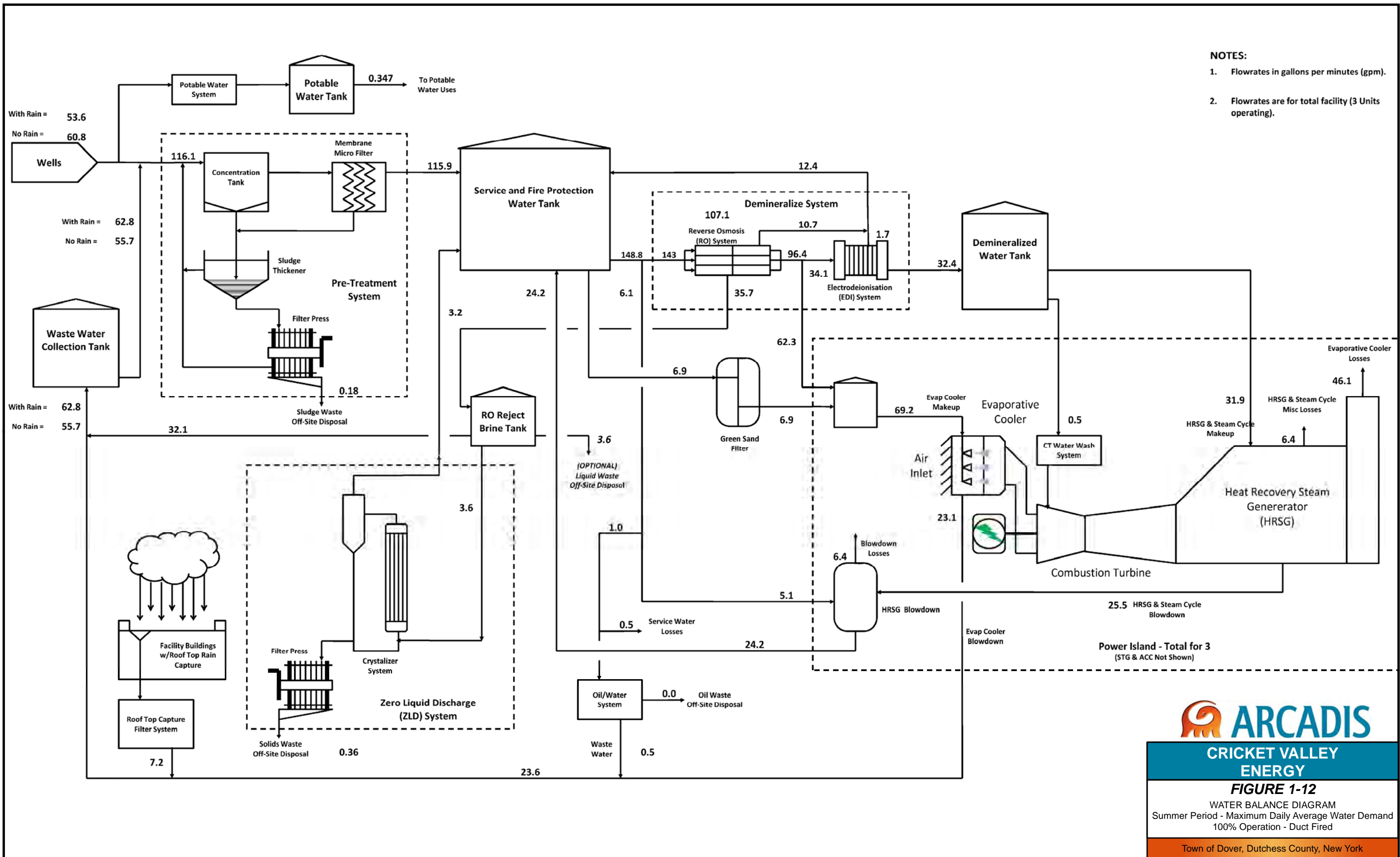
1. Flowrates in gallons per minutes (gpm).
2. Flowrates are for total facility (3 Units operating).



CRICKET VALLEY ENERGY

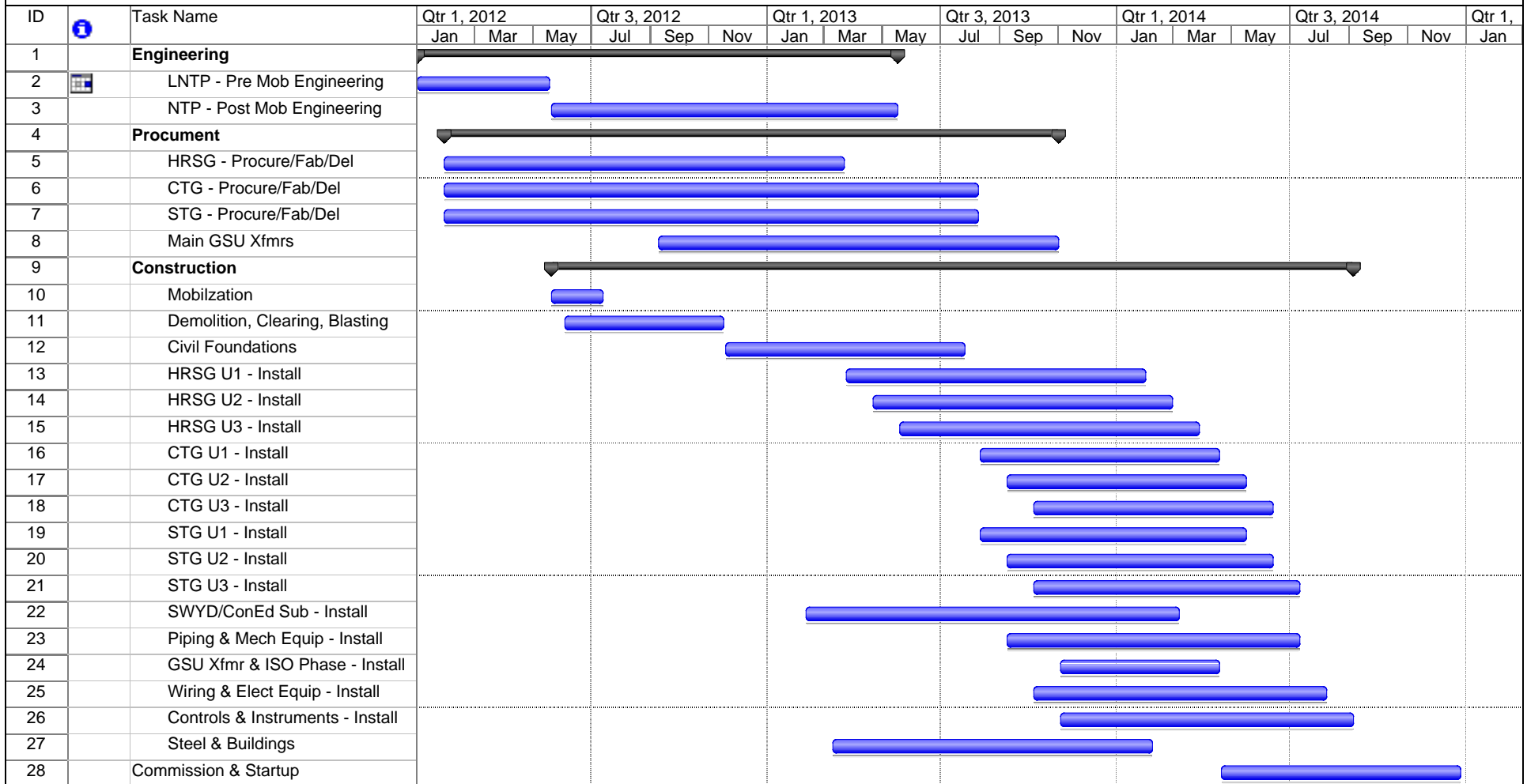
FIGURE 1-11

WATER BALANCE DIAGRAM
Winter Period - Maximum Daily Average Water Demand
100% Operation - Duct Fired



ARCADIS
CRICKET VALLEY ENERGY
FIGURE 1-12
 WATER BALANCE DIAGRAM
 Summer Period - Maximum Daily Average Water Demand
 100% Operation - Duct Fired
 Town of Dover, Dutchess County, New York

Figure 1-13 - Project Construction Schedule Cricket Valley Energy Center



Project: CVEC - EPC Schedule Date: Thu 7/22/10	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	