



TOWN OF OXFORD

S.B. Church Memorial Town Hall
486 Oxford Road, Oxford, Connecticut 06478-1298
www.Oxford-CT.gov

**Planning &
Zoning
Commission**

October 9, 2014

Mr. Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Revised CPV Towantic Energy Center Project

Dear Chairman Stein:

The Town of Oxford Planning & Zoning Commission ("TPZ") and its staff have carefully reviewed the attached letter, and accompanying site plans and rendering submitted by CPV Towantic, LLC ("Towantic"). Towantic's letter and site plans and rendering describe and show the proposed changes to the CPV Towantic Energy Center (the "Project"), which we approved in 1999. Also, on October 7, 2014, Towantic representatives appeared before the TPZ at our Regular Meeting, described the proposed changes to the Project in more detail, and responded to questions and comments by TPZ members and staff.

Based on our review of the information provided by Towantic and discussion at the regular meeting, the TPZ strongly supports the Project, including the proposed changes. The TPZ recognizes that the Project, as revised, will provide significant benefits to the Town of Oxford and the State of Connecticut. It will cleanly and efficiently produce electricity thereby reducing energy costs in Connecticut, enhancing electric reliability both statewide and in the Oxford area, and improving the environment. Also, the changes made in Towantic's revised site plan will reduce the visual and environmental impact of the Project in Oxford and in neighboring communities. Finally, the Project, as revised, brings enormous local benefits, including property tax revenue and employment opportunities.

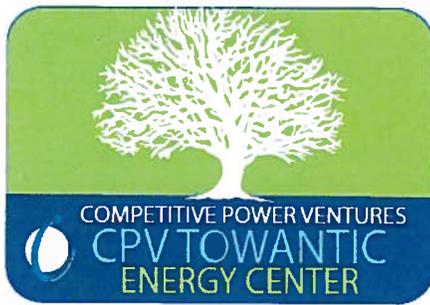
For the reasons described above, the TPZ fully supports the Project, including the proposed changes, and asks that the Connecticut Siting Council approve the changes to the Project proposed by Towantic so that this worthy project can move forward.

If you have any questions, I can be reached at 203 751 1912.

Very truly yours,

Tanya Carver,
Chairman Planning & Zoning

Cc: Board of Selectmen
Kevin Condon, Town Counsel
Planning & Zoning Commission



50 Braintree Hill Office Park, Suite 300

Braintree, MA 02184

October 6, 2014

By E-Mail

Town of Oxford
Planning & Zoning Commission
S.B. Church Memorial Town Hall
486 Oxford Road
Oxford, CT 06478-1298

Subject: CPV Towantic Energy Center

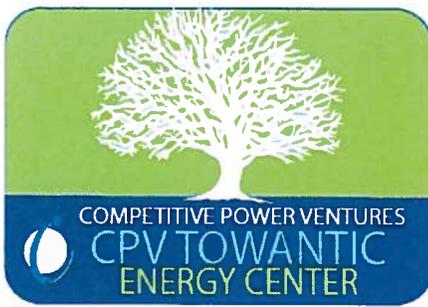
Dear Members:

CPV Towantic, LLC ("Towantic") is pleased to present to the Town of Oxford Planning & Zoning Commission (the "Commission") the following proposed changes and improvements to the CPV Towantic Energy Center (the "Project"), a proposed electric generating facility to be located on Woodruff Hill Road within the Woodruff Hill Industrial Park.

As background, on June 23, 1999, CPV Towantic, LLC (f.k.a Towantic Energy, L.L.C.) was granted a Certificate of Environmental Compatibility and Public Need ("CECPN") by the Connecticut Siting Council ("CSC") following the proceedings associated with Docket No. 192 - An application by Towantic Energy, LLC for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a proposed electric generating facility located north of the Prokop Road and Towantic Hill Road intersection in the Town of Oxford, Connecticut. Following issuance of the CECPN and as a condition of the Decision and Order, Towantic submitted and received approval for its Development and Management Plan containing critical aspects of the Project's implementation and a demonstration of consistency with the CSC's conditions.

However, due to adverse business and energy market conditions, the Project was never commercialized. Recently, business and energy market conditions have dramatically improved, thereby providing an excellent opportunity to proceed with this Project. Our current plan is to begin construction of the Project in the second half of 2015 with a projected commercial operation date on June 1, 2018

As a follow-up to our decision to proceed with the Project, we have made public and governmental outreach a priority to inform stakeholders of our plans. These outreach efforts have included a well-attended Community Open House at the Oxford High School on August 5, 2014 and meetings with local and state officials. At these meetings, we explained that many fundamental aspects of the Project remain largely unchanged, including design of the facility and the location and types of buildings and structures. We also identified those parts of the Project that will be changed due to improved technology, more stringent environmental requirements, and updated design criteria.

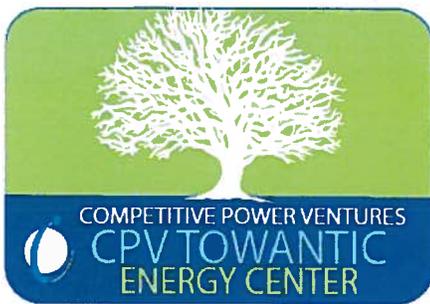


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Braintree, MA 02184

The following provides a comprehensive description of the proposed improvements to the Project's design. Regarding discretionary changes, Towantic conducted due diligence to determine what would be the most beneficial choice for the Project's final design and in all cases attempted to improve the reliability of the facility while minimizing environmental impacts. The changes include:

- **Lot 9A** – Due to changes in Connecticut stormwater regulations, the Project will need to incorporate additional stormwater retention on site. To facilitate this change in regulation and other layout changes, Towantic has entered in to an Option Agreement to purchase Lot 9A, comprised of approximately six (6) acres and located directly south of the original twenty (20) acre site. Also, accordingly, the placement and storage volume of stormwater has changed.
- **Land Swap** – In 2010, the lead project sponsor General Electric (GE) completed an Omnibus Amendment and Settlement Agreement which, among other things, provided for the swap of land between the Town and Towantic.
- **Combustion and Steam Turbine Technology** – The New England power markets have shifted dramatically in the last year and the region that once saw a healthy surplus is now capacity deficient. For this reason, Towantic is proposing to update the technology of the combustion and steam turbines and in the process, increase the Project's output from approximately 525 MW to 805 MW. In making this change, the Project will become a more reliable, flexible, efficient and environmentally friendly resource to the region and contribute even further to solving a regional resource adequacy issue.
- **Air Cooled Condenser (ACC)** – In considering visual impacts, Towantic conducted a significant amount of due diligence to identify a lower profile ACC. Towantic has identified one which profiles thirty-one (31) feet lower than the approved design. Making this change not only provides visual impact benefits but it reduces air emissions impacts due to downwash.
- **Building** – In considering visual impacts, Towantic also considered alternatives to the single building enclosing the combustion and steam turbines. It was determined that visual impacts could be minimized and air emissions downwash reduced by changing the site to three (3) separate enclosures from one larger enclosure. The net result is a lower profile site with reduced air emissions impacts due to downwash.
- **Placement of combustion turbines and steam turbine** – Due to Federal Aviation Administration ("FAA") considerations, Towantic has elected to swap the placement of the combustion turbines and the steam turbine. By doing so, the Project's stacks will now fall outside of one zone considered important by the FAA for aeronautical safety.
- **Oil tank(s)** – The previous design incorporated two (2) approximately 1 million gallon oil storage tanks. The Project has elected to reduce the oil storage capacity to 1.5 million



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gallons total in one (1) tank. The placement of the oil tank has changed as a result of other site plan changes.

- **Water tank(s)** - The previous design incorporated one (1) 2 million gallon water storage tank. The Project has elected to maintain the same capacity of storage but split the total capacity into two (2) approximately 1 million gallon tanks. The placement of the water storage tanks have changed due to other site plan changes.
- **Wetlands** – Over time the previously delineated wetlands onsite have grown. After substantial due diligence, Towantic has undertaken a process for authorization for Category 2 Army Corps of Engineers jurisdictional wetlands impact.
- **Air Emissions** – Due to the selection of new combustion turbine technology, air emission rates will meet current standards and reflect similar or better values for each of the criteria pollutants measured by the US EPA and CT DEEP.
- **Water/Wastewater** – The water use and wastewater discharge for the Project remain largely the same. Additionally, the Project has modified its design to incorporate recycling of heat recovery steam generator (HRSG) blowdown as a conservation measure. All existing permitted thresholds for wastewater are still applicable.

The culmination of these changes results in a facility that will provide additional reliability to Connecticut and will have an improved visual and environmental profile.

At this time, the CSC has exclusive jurisdiction over any changes to the Project. Towantic plans to submit a Petition to the CSC requesting approval of the Project changes in October 2014. Towantic respectfully requests that the Commission provide a letter addressed to the CSC that we may include in our Petition filing confirming the Commission continues to support this Project.

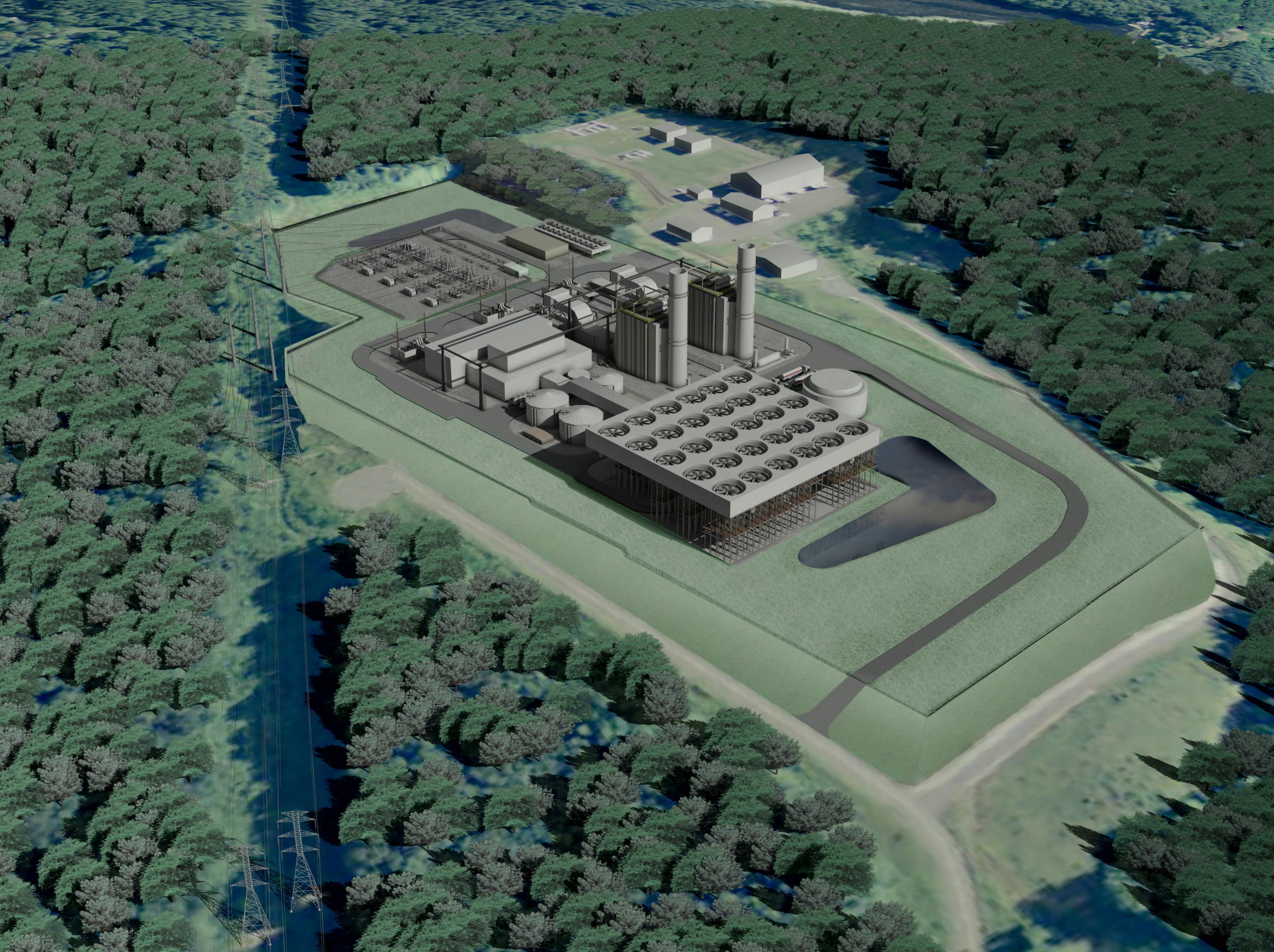
Thank you for your consideration and assistance. Should you require any additional information or clarification, please contact me at (781) 848-3611 or by email at abazinet@cpv.com.

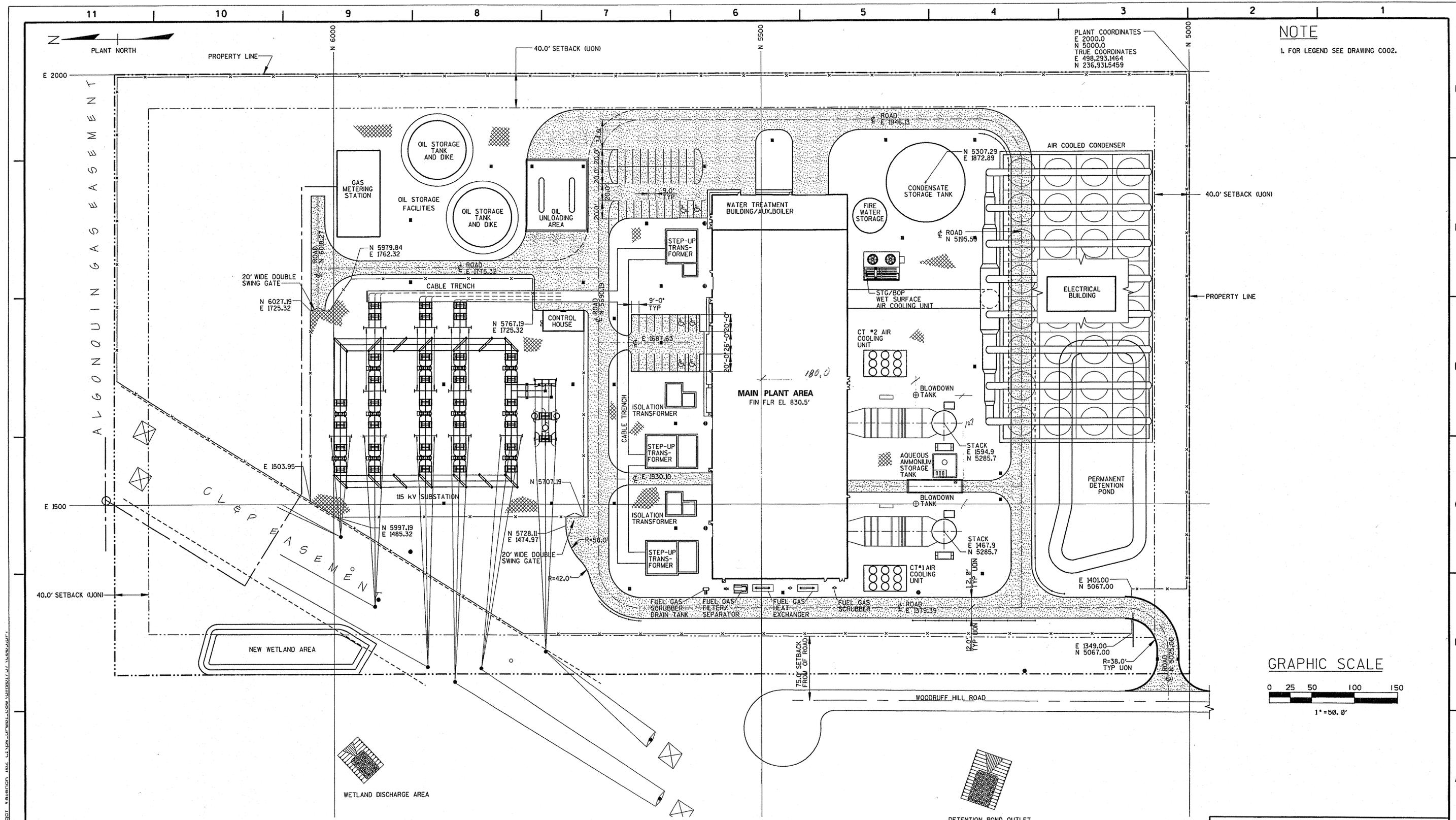
Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew J. Bazinet".

Andrew J. Bazinet
Enclosures (former site plan, current site plan, new rendering)

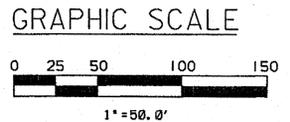
cc: Franca DeRosa, Brown Rudnick LLP
Philip M. Small, Brown Rudnick LLP





NOTE
1. FOR LEGEND SEE DRAWING C002.

PLANT COORDINATES
E 2000.0
N 5000.0
TRUE COORDINATES
E 498,293.1464
N 236,931.5459



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	
B	REVISED RETENTION POND OUTLET & WETLAND DISCHARGE AREA																			
C	REVISED MAIN PLANT AREA																			
D	REVISED DETENTION POND #2, ROAD UNDER AIR COOLED CONDENSER, AMMONIA STORAGE TANK LOCATION & REMOVED RETAINING WALLS																			

DRAUGHTSMAN				CHECKED				DESIGNED				APPROVED							
Name	Date	Scale	Proj	Name	Date	Scale	Proj	Name	Date	Scale	Proj	Name	Date	Scale	Proj	Name	Date	Scale	Proj

Reviewed By	Approved for Construction	Date	Work Order	Drawing No	Sh	Rev
Manager-Design&Drafting	Chief			C005		D

CALPINE TOWANTIC ENERGY CENTER OXFORD, CT

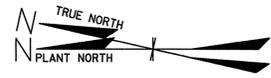
PLOT PLAN

BURNS AND ROE ENTERPRISES, INC.
Engineers and Constructors - Oradell, NJ

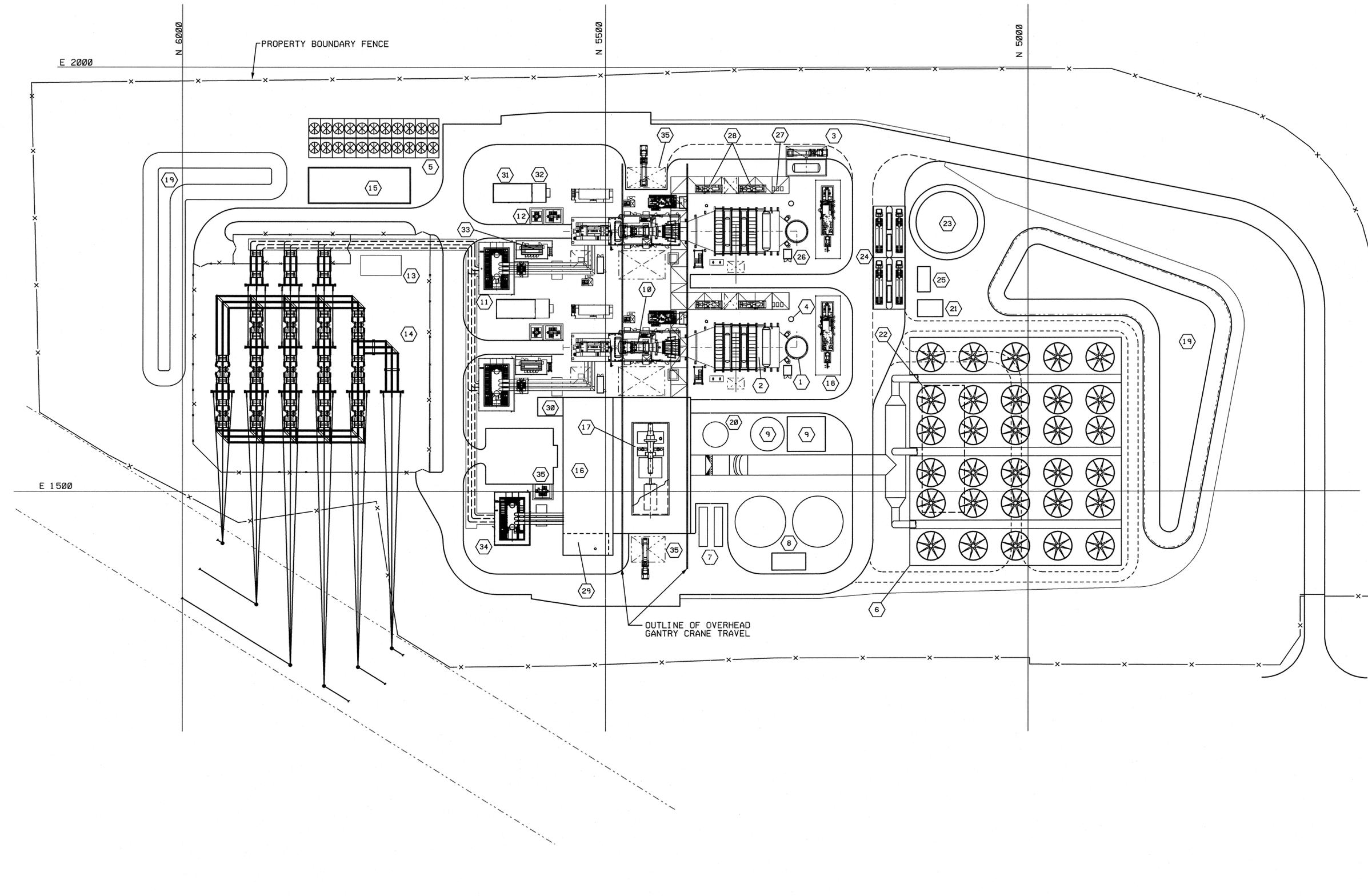
CONNECTICUT, PE NO. 22200

STATUS: 1/22/00

20/01 10/11/07 HM CA PLANT INFORMATION V3-FULL.DWG V10ENGR 10% CA PLANT INFORMATION V3-FULL.DWG V10ENGR 10% CA PLANT INFORMATION V3-FULL.DWG V10ENGR 10%

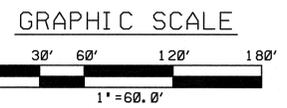


NOTES



LEGEND

- 1. STACK
- 2. HRSG
- 3. AQUEOUS AMMONIUM STORAGE TANK/UNLOADING AREA
- 4. BLOWDOWN TANK
- 5. AUXILIARY COOLING SYSTEM FIN FAN COOLER
- 6. AIR COOLED CONDENSER
- 7. DEMINERALIZED WATER TRAILERS
- 8. DEMINERALIZED WATER STORAGE TANKS/PUMP HOUSE (TWO (2) TANKS EACH 875,000 GAL.)
- 9. FIRE/SERVICE WATER STORAGE TANK & PUMP HOUSE
- 10. COMBUSTION TURBINE GENERATOR
- 11. CTG STEP-UP TRANSFORMER
- 12. ISOLATION TRANSFORMER/ EXCITATION TRANSFORMER
- 13. CONTROL HOUSE
- 14. SWITCHYARD
- 15. GAS METERING STATION
- 16. ELECTRICAL/BATTERY/ DIESEL GEN. ROOMS GND FLR OFFICE/CONTROL ROOMS SECOND FLR
- 17. STEAM TURBINE GENERATOR WITH ENCLOSURE
- 18. GAS HEATER, FILTER AND METERING
- 19. STORM WATER DETENTION POND
- 20. CONDENSATE STORAGE TANK
- 21. FIRE PROTECTION FOAM SYSTEM ENCLOSURE
- 22. ACC MECHANICAL/ELECTRICAL BUILDING
- 23. FUEL OIL STORAGE TANK WITH SECONDARY STEEL CONTAINMENT (1,500,000 GAL.)
- 24. FUEL OIL UNLOADING AREA
- 25. FUEL OIL FORWARDING PUMP/HEATER/FILTER SKID
- 26. CEMS ENCLOSURE
- 27. HRSG CHEM FEED
- 28. BOILER FEED WATER PUMPS
- 29. AUXILIARY BOILER ROOM (GROUND FLOOR)
- 30. EMERGENCY DIESEL GENERATOR ROOM
- 31. LOAD COMMUTATING INVERTER (LIC) COMPARTMENT
- 32. DC LINK REACTOR
- 33. GENERATOR EXCITATION COMPARTMENT
- 34. STG STEP-UP TRANSFORMER
- 35. EQUIPMENT REMOVAL AREA



M300, DGN

11.11

08-SEP-2014

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				
Purpose	Approved By	Date	Released By	Date
For Information	JGF	8/25	JGF	9/11/14
For Comment				
For Bid				
For Fabrication				
For Construction				

Engineering Review		
Disc	Engr	Date
Mech		
Elec		
Civil		
Arch		
Instr		

Drawn	JGF	Designed	JGF	Checked	
Lead Engineer		Date		Approved for Construction	
Scale	1"=60.0'	Chief MECHANICAL Engineer		Work Order	3328
Drawing No	M300	Sh		Rev	C

CPV TOWANTIC ENERGY CENTER
OXFORD, CONNECTICUT

GENERAL ARRANGEMENT PLOT PLAN

BURNS AND ROE ENTERPRISES, INC.
Engineers and Constructors - Oradell, NJ
Connecticut License No. PEC 39