



**BOND, SCHOENECK & KING, PLLC**

ATTORNEYS AT LAW ▪ NEW YORK FLORIDA KANSAS

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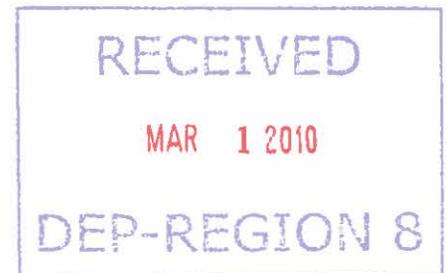
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February 26, 2010

Mr. Roger McDonough  
Environmental Analyst  
Division of Environmental Permits  
New York State Department of  
Environmental Conservation  
Region 8  
6274 East Avon-Lima Road  
Avon, New York 14414



Re: *Inergy Midstream, LLC / Finger Lakes LPG Storage LLC*  
*Liquefied Petroleum Gas Storage Facility*  
*Town of Reading, Schuyler County*

Dear Mr. McDonough:

As you are aware, our client, Finger Lakes LPG Storage, LLC ("Finger Lakes") is proposing the construction of a multi-cycle LPG storage system with a pipeline connection and rail and truck load/unload racks in the Town of Reading, Schuyler County ("the Project"). On February 2, 2010, the New York State Department of Environmental Conservation (the "Department") Commissioner made a Determination of Lead Agency in favor of the Department and in particular Region 8. In response to your letter dated February 9, 2010 requesting additional information to assist in your review under the State Environmental Quality Review Act ("SEQRA"), we are submitting the following information for your review.

We are also in receipt of the Department's January 11, 2010 Notice of Incomplete Application ("NOIA") for our Underground Storage Permit Application. A response to this NOIA will be provided separately.

In previous correspondence, we have also addressed the lack of any interrelationship between Finger Lakes' application and US Salt's application for a SPDES permit modification. This is again to restate that US Salt's SPDES modification has absolutely nothing to do with the Finger Lakes' application. A response to the NOIA issued with regard to US Salt's SPDES permit modification request, dated December 9, 2009, will likewise be transmitted under separate cover.

**I. Response to Items in February 9, 2010 Department Letter**

**A. Item 1 - Brine Pond Integrity Evaluation**

In response to an October 19, 2009 letter from the Department regarding lead agency, we submitted a letter to the Department on October 23, 2009. Included in this letter is a discussion regarding brine pond integrity and a memorandum from Rick Wakeman, a geotechnical expert from C.T. Male Associates (his CV was also included in the letter to the Department), summarizing his October 15, 2009 presentation to the Town Planning Board on the very question the Department is now asking. Specifically, the purpose of his presentation was to address comments raised regarding the stability of the proposed Brine Pond. *See Exhibit 1*. In addition, we have stated to the Planning Board that the liner system used for the brine pond will be a single 45-mil reinforced polypropylene liner on top of a 16 oz. nonwoven cushion geotextile. This is very similar to the system utilized for the recently constructed brine pond at the Inergy Savona LPG facility. If during excavation groundwater is encountered, an underdrain system will be installed.

In addition, any runoff from the watershed upgradient of the pond will be diverted around the pond via man-made swales. Therefore, the only stormwater inflow to the pond will be through direct precipitation (i.e. rain and snow falling directly into the pond). The mean annual precipitation at this location is approximately 32 inches, while the mean annual free water surface evaporation from shallow lakes at this location is approximately 29 inches. Therefore, a net annual increase in depth of approximately three inches can be expected due to direct precipitation into the pond. The 24 inches of freeboard provided in the design is adequate to account for this annual increase, and for any reasonably expected variations in annual precipitation and evaporation rates.<sup>1</sup> Further, no multi-year increase is expected because the pond will be drained each winter.<sup>2</sup> Based on the above considerations, no stormwater discharges requiring a SPDES permit should occur from the pond.

**B. Item 2 – Brine from Storage Operations**

Finger Lakes will not connect the proposed brine pond to US Salt operations. As shown above, there is no need to do so.

Moreover, if any brine is conveyed from debrining any cavern associated with a future natural gas project at initial cavern fill, there would be a separate application for such a project and US

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<sup>1</sup> The precipitation figure cited is based on a map entitled "Mean Annual Runoff, Precipitation, and Evapotranspiration in the Glaciated Northeastern United States, 1951-80", published by the United States Geological Survey (USGS). The evaporation figure cited is based on maps presented in the "Evaporation Atlas for the Contiguous 48 United States", published by the National Oceanic and Atmospheric Administration (NOAA) in June 1982.

<sup>2</sup> Cavern expansion will take up any rainfall that does not evaporate.

Salt's existing aboveground brine piping system would likely be utilized to transport such brine to US Salt's manufacturing facility. However, any future natural gas project is separate and independent from the proposed Finger Lakes project.

C. Items 3 and 4 – Effects on US Salt Operations

The Finger Lakes project will have NO effect on US Salt operations and no modification to US Salt's SPDES permit or Title V permit will be necessary since brine will not be conveyed from the Finger Lakes brine pond to US Salt's brine system. In addition, as suggested above with regard to any future natural gas project, we fail to see the relevance of such information with regard to a SEQRA review of the Finger Lakes Project particularly as it relates to US Salt operations.

D. Item 5 – Rate of Operational Cavern Enlargement

As noted above, brine will not be removed from the pond to compensate for precipitation.

E. Item 6 – Truck and Rail Traffic

i. *Truck Traffic*

On September 1, 2009, Finger Lakes submitted an Application for Special Permit<sup>3</sup> Approval to the Town of Reading. A copy of this application is provided herein as *Exhibit 2*.<sup>4</sup> Included in this application were: (1) descriptions of the project structures and locations; (2) findings of compliance with the Town's guidelines for such permits; (3) New York State Department of Transportation ("NYSDOT") traffic data; (4) examples of the proposed facility entrance sign; (5) a Full Environmental Assessment Form ("EAF") (this EAF will be revised and submitted to the Department under separate cover at a later date consistent with the Department's January 11, 2010 NOIA); and (6) facility layout and locations diagrams. As noted in the EAF (and this will not change in the revised EAF) and explained to the Planning Board, there will be minimal truck traffic generated as part of this project, since most of the product will come in or go out via rail or pipeline. Therefore, the Project will have no impact on the two (2) New York State highways (Routes 14 and 14A) involved in the Project. In our application to the Town Planning Board, we provided NYSDOT data on the segments of the two State highways where Finger Lakes vehicles would be entering or exiting.

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<sup>3</sup> The question of whether Finger Lakes still needs local permits will be addressed separately with the Town of Reading at a later time.

<sup>4</sup> On October 1, 2009, Finger Lakes submitted revised drawings for the rail siding, office area and brine pond to the Town Planning Board. These drawings are incorporated in the Application package that is included with this letter as Exhibit 2. Drawings 2, 3 and 4 were revised to reflect a 25 foot shift of the office area further away from the road, a reconfiguration of the brine pond and some additional on site screening for the railroad siding.

In addition, the Planning Board and members of the public had specific questions regarding the Route 14/14A interchange and whether NYSDOT planned to upgrade this interchange. In response, on Friday, September 25, 2009 Jessica Skinner of JESS Engineering, consultant to Finger Lakes on the Project, spoke with Andy Williams, PE of the NYSDOT Regional Office in Hornell New York regarding Highway 14-14A reconstruction plans. Mr. Williams is in charge of the redesign of the intersection. They discussed the NYSDOT's plans for the area and the fact that the NYSDOT was still in the very early stages of development. At the time they spoke, the project was slated for 3.5 years out. The possibilities ranged from an at grade intersection to an overpass very similar to what is currently in place. No over pass would be more than about 18" higher in elevation than the one that was currently in place.

*ii. Rail*

With regard to rail, Finger Lakes has been working closely with Norfolk Southern in the planning of this Project, as it relates to rail. Norfolk Southern is a common carrier class constantly moving a variety of freight, including hazardous materials of all kinds, between shippers, receivers and connecting rail lines across the Finger Lakes Storage rail system. Historically the track to be utilized by the Finger Lakes Storage facility (Corning Secondary) has seen all manner of freight. It is a Federal Railroad Administration ("FRA") Class 2 track with a maximum allowable operating speed for freight trains of 25 miles per hour. Per federal (FRA) requirements, track inspections are made weekly. As a matter of routine, Norfolk Southern's Bridge Department conducts regular annual inspections of all structures on the Norfolk Southern system with the Watkins Glen Gorge structure receiving special attention. New York State safety data obtained from the FRA shows that between 2000 and 2009, Norfolk Southern trains have not been involved in any accidents that resulted in a release of hazardous materials. Currently, an average of 3 trains runs north and south on a daily basis in the vicinity of Watkins Glen.

F. Item 7 – Visual Impacts and Screening

On September 17, 2009 Finger Lakes submitted a landscaping outline to the Town Planning Board. This outline provided a general description of what the landscaping plan would be in all three of the proposed main project areas, including facility layout diagrams. *See Exhibit 3.*

During the Planning Board's review of the Project, there were questions raised regarding visual impacts. In response, on October 1, 2009, C.T. Male landscape architect Frank Palumbo made a presentation to the Town Planning Board about additional landscaping and screening details for the Project, focusing primarily on the brine pond and the loading/unloading facility on NYS Route 14A. *See Exhibit 4.* The presentation included a summary of grading plans, tree surveys, site photos and simulations, and proposed landscaping plans for the Truck Rack and Brine Pond sites. *See Exhibits 5 and 6* for larger pictures showing the existing Truck Rack and Brine Pond

sites, the projected look of the sites with the completed projects, and the projected look of the sites with the completed projects and mitigation.

## II. Additional Documents

### A. Stormwater

As you probably know, in response to the submittal of a complete Notice of Intent by Finger Lakes, the Department issued an Acknowledgment of Notice of Intent for Coverage under SPDES General Permit for Storm Water Discharges from Construction Activity General Permit No. GP-0-08-001 on September 10, 2009. *See Exhibit 7*. In connection therewith, the complete Stormwater Pollution Prevention Plan ("SWPPP") has been provided to Department Staff. Also in connection with anticipated soil disturbance associated with the Project, on August 21, 2009, Finger Lakes submitted a request to the Department to disturb greater than 5 acres of soil at any one time on the Project under SPDES Permit #NYR10R595. In a letter dated September 15, 2009, the Department approved the request. *See Exhibit 8*. We understand that the SEQRA process must be completed before any physical alteration of the sites in question can occur, although under the SEQRA regulations survey activities (such as soil borings) are permissible.

### B. SHPO

In support of its Application, Finger Lakes has taken the following action with the New York State Office of Parks, Recreation and Historic Preservation ("SHPO"):

- (1) On September 11, 2009, we submitted a Project Review Cover Form to SHPO on behalf of Finger Lakes for the proposed Project. With the submittal, we requested SHPO determine that the project components where the plant and brine pond are located would have no impact upon cultural resources. It was also requested that SHPO make the same determination for the other locations of the Project (e.g. rail/truck area). *See Exhibit 9*.
- (2) On September 14, 2009, we submitted a revised Project Review Cover Form to SHPO clarifying the exact location of the proposed Project. *See Exhibit 10*.
- (3) In a letter dated September 24, 2009, SHPO requested additional photographs of the project site. *See Exhibit 11*. In response to its request, we submitted a letter dated October 8, 2009 to SHPO forwarding photographs and additional information. *See Exhibit 12*.
- (4) After review of the project, SHPO concluded that the project would have No Impact upon cultural resources in or eligible for inclusion in the State and National Register of Historic Places in a letter dated October 14, 2009. *See Exhibit 13*.

Mr. Roger McDonough  
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If you have any questions, or need clarification regarding anything submitted with this letter, please call. Thank you.

Sincerely,

BOND, SCHOENECK & KING, PLLC



Kevin M. Bernstein

Enclosures

cc: William R. Moler	(w/enclosures)
Michael Armstrong	(w/enclosures)
Barry Cigich	(w/enclosures)
Robert Traver, US Salt	(w/enclosures)
Peter Briggs, DEC	(w/enclosures)
Jack Dahl, DEC	(letter only)
Jennifer Maglienti, Esq., DEC	(letter only)
Peter Lent, DEC	(w/enclosures)
Linda Collart, DEC	(w/enclosures)
Nancy Rice, DEC	(w/enclosures)





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ATTORNEYS AT LAW • NEW YORK FLORIDA KANSAS

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October 23, 2009

**VIA ELECTRONIC AND  
FIRST CLASS MAIL**

Mr. Roger McDonough  
Environmental Analyst  
New York State Department of  
Environmental Conservation  
Division of Environmental Permits  
6274 East Avon-Lima Road  
Avon, NY 14414-9519

Re: *Inergy Midstream/Finger Lakes LPG Storage, LLC*  
*Liquefied Petroleum Gas Storage Facility*  
*Town of Reading, Schuyler County*

Dear Mr. McDonough:

We are in receipt of your October 19, 2009 letter to Gordon Wright regarding lead agency. The purpose of this letter is to provide additional information responsive to the issues raised by the Department of Environmental Conservation ("Department" or "DEC") Region 8 Division of Water Staff as set forth in your letter. In addition, this is to once again request that the Department allow the Town to be lead agency over its site plan review or agree to a segmented review under 6 NYCRR § 617.3(g) (so that the Town would be lead agency for all site issues and the DEC would be lead agency for the underground gas storage application).

As you may be aware, Finger Lakes LPG Storage, LLC (Finger Lakes) submitted its application to the Town of Reading (Town) for a special permit under its Land Use Law on or about September 1, 2009. Pursuant to the SEQRA regulations, the Town sought lead agency and sent out lead agency coordination letters to involved agencies. On October 1, 2009, DEC responded stating that it wished to be lead agency, citing the 1992 Final Generic Environmental Impact Statement (FGEIS)<sup>1</sup> for the Oil, Gas & Solution Mining Regulatory Program and Department

<sup>1</sup> On October 13, I e-mailed Lisa Schwartz, Jennifer Hairie, Peter Lent and you with Page 15 of the FGEIS to show that the quoted language in your letter of October 1 was referring to drilling permits.

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October 23, 2009  
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policy. We received this letter on October 5 and I immediately contacted the Regional Attorney, Regional Permit Administrator and Jennifer Hairie, Bureau Chief and Program Counsel in Central Office by e-mail. In this communication, I asked DEC to reconsider its position. On October 7, I met with Jennifer Hairie in Albany and Assistant Regional Attorney Lisa Schwartz joined by phone. At that time, we discussed the lead agency issue and the necessity of a dam permit.

On the same day this meeting occurred (which you were not aware of) you issued a second letter to the Town dated October 7, 2009, in which you identified the need for a dam permit and an underground storage permit and the possibility of other permits, including a modification to US Salt's SPDES permit. Your description of the SEQRA process and the process under Part 621 is the very reason why we need the Town to be lead agency for its own site plan review. As I explained during my meeting/call with Ms. Hairie and Schwartz, if Finger Lakes must wait until the Underground Storage Permit is issued before SEQRA is complete, this would likely result in the loss of one full season of providing critical gas storage services (for which customers have already been obtained).

Upon our receipt of the Department's October 7 letter (received on October 10), I communicated by e-mail with Ms. Hairie, the Regional Attorney, the Regional Permit Administrator, and the Regional Director requesting that the DEC allow the Town to be lead agency, disputing the need for a dam permit, and responding to the possible need to modify US Salt's SPDES Permit. We also indicated that the Project had already received from DEC an acknowledgement of Finger Lakes' Notice of Intent under the SPDES Stormwater General Permit (on September 10) and a 5-acre waiver (on September 15) with regard to soil disturbance under the General Permit.

In a letter dated October 9, 2009, the Department issued a correction, noting that a dam permit was not necessary, but indicating that "other issues in the October 7 letter remain." This letter also indicated that the Town had granted DEC an extension of time for establishing lead agency, to October 28, 2009.

In your most recent letter dated October 19, 2009, you ask the Town if it has made a decision regarding lead agency (although it would appear the Town is the agency waiting on a decision from DEC). At a meeting held on October 15, 2009, the Town Planning Board did not make a decision on lead agency and is awaiting the Department's response to the Applicant's request that it reconsider its position. That is one of the purposes of this letter.

One other reason for this letter, as noted above, is to respond to other comments in your October 19 letter. First, it is surprising that when Mr. Newell phoned you on October 13, 2009, he did not inform you that revised drawings were provided to the Planning Board on October 1, 2009. However, beyond that, at our meeting with the Town Planning Board on October 15, 2009,

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October 23, 2009  
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Richard Wakeman, a geotechnical engineer with C.T. Male Associates,<sup>2</sup> made a presentation addressing Mr. Newell's concerns. Enclosed as Exhibit 2 is a memo from Mr. Wakeman describing the geotechnical work performed at the site and a description of the design of the brine pond to ensure structural integrity. We believe Mr. Wakeman's memo and drawings attached thereto more than adequately responds to Mr. Newell's concerns.

Further, any runoff from the watershed upgradient of the pond will be diverted around the pond via man-made swales. Therefore, the only stormwater inflow to the pond will be through direct precipitation (i.e. rain and snow falling directly into the pond). The mean annual precipitation at this location is approximately 32 inches, while the mean annual free water surface evaporation from shallow lakes at this location is approximately 29 inches. Therefore, a net annual increase in depth of approximately three inches can be expected due to direct precipitation into the pond. The 24 inches of freeboard provided in the design is adequate to account for this annual increase, and for any reasonably expected variations in annual precipitation and evaporation rates.<sup>3</sup> Further, no multi-year increase is expected because the pond will be drained each winter. Based on the above considerations, no stormwater discharges requiring a SPDES permit should occur from the pond.

With regard to any other potential discharge from the lined brine pond, while none is planned, there will be piping installed to ensure that should there be any excess brine, it can be piped to US Salt for use in the brine production process, but not discharged under US Salt's SPDES permit. Therefore, no modification to US Salt's SPDES permit is necessary or required. This may have been what you understood as a result of our pre-application meeting in February.

Finally, while it is true that the Underground Storage Permit Application identifies a potential total storage capacity of approximately 6 million barrels (5 million barrels for Gallery 1 and 1 million barrels for Gallery 2), the initial contracts in place are for a total of 2 million barrels of product (1.5 million barrels of propane and 500,000 barrels of butane). Thus, the current request for approval from the Town for an approximately 2.1 million barrel brine pond is sufficient at this time. Clearly, once permitted, in order to utilize the full capacity of the galleries, additional brine pond storage would have to be identified and permitted.

In summary, this is to request that the Department allow the Town to be the lead agency for its site plan review. The Town has scheduled a public hearing for November 19, 2009. If the Town is designated lead agency before then, we would ask the Department to provide any final

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<sup>2</sup> Mr. Wakeman's *curriculum vitae* is attached as Exhibit 1.

<sup>3</sup> The precipitation figure cited is based on a map entitled "Mean Annual Runoff, Precipitation, and Evapotranspiration in the Glaciated Northeastern United States, 1951-80", published by the United States Geological Survey (USGS). The evaporation figure cited is based on maps presented in the "Evaporation Atlas for the Contiguous 48 United States", published by the National Oceanic and Atmospheric Administration (NOAA) in June 1982.

Mr. Roger McDonough  
October 23, 2009  
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comments on environmental issues (not relating to the Underground Storage Permit) and transmit those to the Town and the Applicant for consideration, review and response.

Sincerely,

BOND, SCHOENECK & KING, PLLC

*Kevin Bernstein*

Kevin M. Bernstein *jio*

Enclosures

cc: Gordon Wright, Town of Reading Planning Board  
Hank Wodarski, Town of Reading Code Enforcement Officer  
Jack Dahl, DEC  
Linda Collart, DEC  
Dixon Rollins, DEC  
Peter Lent, DEC  
Randall Nemecek, DEC  
Jennifer Hairie, Esq., DEC  
Lisa Schwartz, Esq., DEC  
Leo Bracci, Esq., DEC  
Paul D'Amato, Esq., DEC  
William R. Moler, Inergy Midstream  
Barry Cigich, Inergy Midstream  
Michael Armstrong, Finger Lakes  
Jessica Skinner, JESS Engineering

**EXHIBIT 1**

**TO**

**OCTOBER 23, 2009**

**LETTER**

RICHARD C. WAKEMAN, P.E.

Vice President, Civil Engineering Services/  
Chief Geotechnical Engineer

a

Mr. Wakeman has over 33 years of experience in geotechnical engineering of projects of varying scope and complexity. During this period he has developed subsurface investigation programs and performed geotechnical evaluations for buildings, water and petroleum storage tanks, grain silos, waterfront docking facilities, retaining structures, earth dams and reservoirs, and flash and municipal waste disposal sites. These evaluations have led to the development of earthwork and foundation recommendations, preparation of detailed plans and specifications, and supervision of construction inspection and material testing.

A partial listing of the earthen and concrete gravity dam projects he has worked on is given below. On two of these projects, Mr. Wakeman has served as an expert witness and participated in mediation and arbitration hearings to provide testimony in support of cases where the owner's of dams were damaged due to engineering errors or omissions and poor construction practices. Mr. Wakeman co-authored a technical paper on one of these cases and presented the case history at the 2004 Annual dam Safety Conference of the Association of State Dam safety Officials in Phoenix, Arizona.

### **Project Experience**

**Preliminary Geotechnical Evaluation, Nanotechnology Manufacturing Facilities, Luther Forest Technology Campus, Malta, New York.** Project Manager responsible for preparing a preliminary geotechnical report and dynamic site response analysis for the site in Malta, New York proposed for a nanotechnology manufacturing facility. For this study, existing test boring data was utilized together with the information gathered from advancing a single cone penetrometer test. The analysis of this data resulted in the opinion that the fabrication building could be supported on a mat foundation and that the other structures could be supported on conventional spread foundations. The dynamic site response analysis was made using bedrock accelerations identified by the NYS Building Code that was in effect at that time.

**Site Roadways, Luther Forest Technology Campus, Malta, New York.** Project Manager responsible for developing foundation recommendations and providing construction phase services related to the construction of four (4) large pre-cast concrete arch culverts beneath access roads to the Luther Forest Technology Campus. Each of the culvert sites were underlain by relatively soft and compressible silt and clay soils. Embankment sections at these crossings ranged from 22 to 29 feet in height and would induce ground settlements of several inches. Due to concerns over developing excessive negative skin friction as a result of this settlement and developing a condition referred to as "lateral ground squeeze", two (2) of the structures could not be pile supported. Recommendations to support these structures on conventional spread foundations included the installation of vertical drains, the construction of steep reinforced earth embankments adjacent to these structures and the utilization of geofoam as backfill for the same. Vibrating wire piezometers were installed to monitor the pore water pressure dissipation and settlements platforms to monitor the progression of the ground settlements.

**New Patient Pavilion, Harlem Hospital Center, New York, New York.** Provided a peer review of a geotechnical report prepared for a 10 story building in New York City. In lieu of using deep drilled shafts socketed into bedrock to support the building, a report was prepared to recommend modifying of the ground conditions to an extent that would allow the use of conventional spread foundations. Compaction grouting was performed across the building footprint to eliminate the soil liquefaction potential and allow the building to be supported

RICHARD C. WAKEMAN, P.E. -2-

Vice President, Engineering Services/  
Chief Geotechnical Engineer

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on spread foundations proportioned for a bearing pressure of 4,000 pounds per square foot. Numerous post-treatment cone penetration tests were performed to confirm the ground modification (densification) was performed to the degree required. Provided full-time construction observation of the work and monitored ground vibrations and heave/settlement of the ground surface and adjacent structures.

**Target Northeast Distribution Center; Wilton, New York.** Project Manager responsible for the geotechnical engineering for a 1,600,000 SF regional distribution center. Developed subsurface investigation program, analyzed conditions disclosed and prepared earthwork and foundation recommendations for the building, mechanically stabilized earth retaining walls and pavements. Infilling of deep ravines for the site's development required that magnitude of ground settlement induced by the fill's placement be estimated and that its time rate of occurrence be predicted. During construction directed the activities of four (4) construction observers monitoring foundation and floor slab construction, structural steel erection, installation of underground utilities, pavement construction, and earthwork associated with site development.

**Schenectady County Community College Additions; Schenectady, New York.** Project Manager responsible for the geotechnical evaluation of the area around Schenectady County Community College where new additions were planned for construction. Responsibilities included management of subsurface investigation program, foundation evaluation, and construction quality control testing and inspection services. Unique site conditions resulted in the use of a combination of auger cast piles, minipiles, steel H-piles and spread foundations to support the additions and pedestrian bridge. Construction quality control services including inspection of pile load testing and driving program, review of vibration monitoring data relative to protection of historic structure and sensitive computer equipment, monitoring of grout stabilization of 5-story stair tower foundation, and inspection and testing of fill/backfill placement and compaction, reinforcing steel placement, and concrete construction.

**Quad Graphics, Inc.; Saratoga Springs, New York.** Project Manager responsible for the geotechnical evaluation of the phased construction of a 500,000 square foot printing plant. Developed and supervised test boring and cone penetration testing program. Provided recommendations for design of building foundations, and floor slabs supporting printing presses sensitive to settlement and areas supporting 1,400 pounds per square foot of load. Dynamic deep compaction was used to densify the loose granular soils underlying the plant site. Construction quality control duties included cone penetration testing evaluation to determine adequacy of dynamic deep compaction.

**State Farm Insurance Agency Regional Headquarters; Malta, New York.** Project Manager responsible for the geotechnical evaluation of a 200 acre parcel where the construction of the northeastern regional headquarters of a national insurance company was proposed. Developed and supervised the subsurface investigation program, and provided recommendations for the earthwork and foundation design of the 340,000 square foot facility as well as recommendations for the design of roadways, parking lots and stormwater detention basins. Supervised a team of up to six construction inspectors monitoring earthwork, concrete, reinforcing and structural steel, and asphalt pavement construction.

**Rensselaer Cogeneration Plant; Rensselaer, New York.** Project Manger responsible for the geotechnical evaluation of a site along the riverfront proposed for the construction of a coal-fired cogeneration plant. Evaluation included the assessment of strength and

compressibility characteristics of a deep deposit of glacio-lacustrine clay with a known history of landslide susceptibility. Thin-walled tube samples were recovered, tested in triaxial compression and the test results compared to similar data available through the NYSDOT. Specifications were developed to assure stability of the riverfront through establishing limits to the height of stockpiled coal, and setback lines for the stockpile and any ground supported structures.

**Prospect Avenue Landslide Stabilization; Fort Plain, New York.** Project Manger for the analysis and stabilization of a 70 foot high hillside. The landslide severed a sanitary sewer line along a road bordering its top and its base terminated along a river. Within these confines the design required the excavation of the landslide mass and reconstruction of the failed hillside utilizing at its base an over-steepened toe constructed of geotextile reinforced earth. Rip rap was used as cover to protect the geotextile from sunlight damage and for erosion protection along the river.

**Paper Magic, Inc. Warehouse Expansion; Troy, Pennsylvania.** Project Manager responsible for the evaluation and remedial design of a 200 foot long landslide induced by the construction of a printing distribution center. Developed and supervised test boring and monitoring well installations, and laboratory testing program that included triaxial shear tests. Field investigations disclosed the presence of artesian groundwater conditions within a winnowed fill layer overlain by lacustrine silt and clay soils. Computer assisted slope stability studies were performed to evaluate several remedial options. A toe berm and relief well system was found to be the most cost effective method of stabilization and was constructed under the Project Manager's observation.

**Cargill Shiploading Terminal; Albany, New York.** Project Manager responsible for the design of a foundation for a new ship loader adjacent to the Hudson River at the Port of Albany, New York. The design included the evaluation of dock stability along a section of recorded lateral instability. Mechanisms of failure of the relieving platform style dock were evaluated and that responsible identified. A foundation design including a combination of H-piles and a deadman tie-back system was adopted to provide proper vertical support of the ship loader and ensure its long-term lateral stability.

**CIBRO Petroleum Facility; Port of Albany, New York.** Project Manager responsible for evaluating riverfront stability under the proposed construction of petroleum storage tanks along the Hudson River. Slope stability analyses included evaluating detailed soil stratigraphy and shear strength parameters, and pore pressure response to loading and its time-rate of dissipation. Final design recommendations included installation of pneumatic piezometers and staged hydrostatic testing of tanks to monitor and control effects of riverbank loading.

**CIBRO Petroleum Refinery Expansion; Albany, New York.** Project Engineer assigned to evaluate alternatives to an anchored sheetpile bulkhead (ARBED system). Evaluation included the selection and design of a cellular cofferdam. Follow-up construction inspection of each dock structure involved installation and monitoring of pore pressure upon backfilling bulkhead with lightweight aggregate, and review and approval of cofferdam fill materials and their method of placement.

**Goodnow Flow Dam; Newcomb, New York.** As this project's consulting hydraulic and geotechnical engineer, services provided on this project included hydrologic and hydraulic analyses, slope stability analyses of the dam's earthen embankment sections and structural

stability analyses of its new spillway. The structural stability analyses led to the need to anchor the dam with single-bar post-tensioned rock anchors. An Engineer's Report was prepared for the project to present these analyses in support of the applications for permit. Construction of the new spillway is planned for the Fall of 2009 at which time our services in administering and monitoring construction has been requested.

**Lake Vanare Dam; Lake Lazerne, New York.** This aged concrete gravity dam was in need of repair due severe deterioration of its concrete surface. The extent of the concrete deterioration was investigated and plans and specifications developed to restore its concrete surface through cement grouting of its substrate, removal of deteriorated concrete and replacing it with concrete reinforced and doweled into the section of concrete left in place. In support of the permit applications prepared for this project, hydrologic and hydraulic (H&H) and structural stability analyses were performed. The H&H analyses indicated the need to raise the height of the dam to provide adequate freeboard during the spillway design flood of this Hazard Class B dam. Adminstrating and monitoring the construction contract on a full-time basis was provided.

**Bocklet Pond Dam, Durham, New York.** Within four years of the construction of this 38 foot high earthen dam, the dam failed releasing, in a matter of hours, the 11 acre body of water the dam retained. As the engineer retained to investigate the dam's failure and develop plans and specifications for its repair, the work performed included hydrologic and hydraulic analyses, slope stability evaluations, and the preparation of a new Joint Application for USACOE Nationwide and NYSDEC Freshwaters Wetlands and Protection of Waters Permit. Construction observation services were performed to complete the forensic evaluation of the dam's failure and monitor its reconstruction. Internal soil piping as a result of inadequate design of the dam's filter diaphragm and poor construction practices were determined to be the cause of the dam's failure and were reported as such to support mediation hearings.

**Institution Reservoir Dam; Coxsackie, New York.** Hydrologic, hydraulic, geotechnical and structural stability analyses were performed to evaluate the engineering aspects associated with raising the height of a concrete gravity dam to increase the water supply capacity of a reservoir serving a correctional facility. Work included investigation and installation of instrumentation and its monitoring to assess uplift pressures on the base of the dam, and the development of consolidation grouting and rock anchoring requirements to stabilize the dam under the increased hydrostatic head. Plans and specifications were prepared to include these features, restoration of the dam's deteriorated concrete surface, and the replacement of trash racks and gate valves. Existing wetlands were delineated and the wetlands to be created with the raising of the reservoir's water level evaluated. A Joint Application for USACOE Nationwide and NYSDEC Freshwaters Wetlands and Protection of Waters Permit was prepared.

**Smith Bridge Road Dam; Town of Wilton New York.** Hydrologic and hydraulic analyses were performed to assess the capacity of this dam's drop inlet spillway. The assessment was prompted by the sudden loss of ground above its outlet pipe and the concerns for the safety of the low hazard dam and the heavily traveled secondary road running along its crest. The results of this analysis lead to the development of plans and specifications for the spillway's replacement and the preparation of USACOE Nationwide and NYSDEC Freshwaters Wetlands and Protection of Waters permits for the work.

**Water Supply Reservoir Dams; Glens Falls, New York.** Phase 1 and, in some cases, Phase 2 Dam Safety Inspections were performed on the structures retaining five water supply reservoirs of the City of Glens Falls, New York. All but one of these structures are earthen dams with central core walls of masonry, concrete or sheetpile construction. One structure is a concrete gravity dam. For those dams whose Phase 1 Safety Inspections identified the need to establish the line of seepage through their embankments, couplet monitoring wells were installed.

Vice President, Engineering Services/  
Chief Geotechnical Engineer

**Jackson Summit Reservoir Dam; Gloversville, New York.** Five years from the time a spillway for this high hazard dam was constructed, approximately 30 gallons per minute of seepage was observed emanating from the embankment alongside the new spillway's outlet channel. Soil particles were being removed with this flow giving rise to concern for a piping failure of the dam's embankment and loss of the sole water supply of the City of Gloversville. Upon lowering the reservoir level and installing a Portadam, the problem was investigated through the advancement of test borings, in-situ permeability testing, ground penetrating radar surveys and controlled seepage tests. Correction of the problem involved injection of grout by tube-a-manchette methods to form a cutoff wall adjacent to and below the dam's ogee weir, epoxy grouting of cracks in the weir and its training walls, and the replacement of the undermined channel below the weir. Replacement of the channel included the installation of a 30 inch deep drainage blanket and underdrain piping to collect the natural seepage through the dam's embankment and direct it to a discharge point whereby it could be monitored on a long term basis. The remedial work was performed under two simultaneous contracts and expedited under an Emergency Authorization of the NYSDEC.

**Crescent & Vischers Ferry Dams; Albany, Saratoga & Schenectady Counties, New York.** As a subcontractor to Underwater Construction Corporation, an inspection of the upstream and downstream portions of these concrete gravity dams was made. The inspections were videotaped and a report submitted of the findings. Locations and lengths of crack within the upstream face of the structures were identified.

**Mt. Hope Reservoir Dams; Oneida, New York.** Developed plans and specifications for demolition of a concrete gravity dam and the rehabilitation of an earthen dam. Design included analysis of spillway capacity and slope stability of earthen dam. Prepared Joint Application for USACOE Nationwide and NYSDEC Freshwaters Wetlands and Protection of Waters Permit. Included with this application was the submittal of Supplement D-1.

**Walden Pond Dam; Guilderland, New York.** Developed subsurface investigation program, evaluated results, and designed a zoned earthen embankment dam. Features included central clay core and cutoff trench, chimney and blanket drains, and concrete drop inlet spillway and outlet conduit. Managed field inspection and testing of dam's construction.

**Bradley and Wright Lake Dams; Troy, New York.** Project Geotechnical Engineer responsible for evaluation of downstream slope repairs and spillway enlargements to both dams. Remedial measures included clearing of downstream slopes, construction of stabilizing berms at downstream toe of dams, and repair/extension of outlet works including channel erosion protection measures.

**Professional Background**

- Professional Engineer-New York
- M.S., Civil Engineering, Purdue University, 1975  
B.S., Civil Engineering, Clarkson University, 1973
- Professional Affiliations include: American Society of Civil Engineers, Deep Foundation Institute, and Association of State Dam Safety Officials, Inc.
- Past experience: Vice President, Empire Soils Investigations, Inc. (1991-1995), Manager-Geotechnical Services, Empire Soils Investigations, Inc. (1987-1991), Sr. Geotechnical Engineer, Empire Soils Investigations, Inc. (1980-1987), Geotechnical Engineer, Empire Soils Investigations, Inc. (1977-1980), Geotechnical Engineer, GAI Consultants, Inc. (1975-1977)

**EXHIBIT 2**

**TO**

**OCTOBER 23, 2009**

**LETTER**

C.T. MALE ASSOCIATES, P.C.

MEMORANDUM

**DATE:** October 20, 2009  
**TO:** Kevin Bernstein  
**FROM:** Rick Wakeman  
**RE:** *Planning Board Presentation Summary  
Brine Pond*

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On October 15, 2009, I was present at the Planning Board Meeting to address comments raised regarding the stability of the Brine Pond proposed for construction to the immediate east of NYS Routes 14 and 14A in the Town of Reading, New York. In responding to these comments, the following was presented to members of the Planning Board and the public.

- 1.) Six (6) test borings were advanced at the site proposed for the pond's construction. These borings revealed the presence of 20 to 33 feet of overburden, the majority of which was composed of very dense glacial till (commonly referred to as "hardpan").
- 2.) With the pond site being sloping, construction of the pond required a 30 foot cut on the uphill side of the pond closest to NYS Route 14A and the construction of an earthen berm of near equal height on its downhill side. The grading plan for the pond was presented on a board for viewing.
- 3.) Two issues of concern in this design were the stability of the berm constructed on the downhill side of the pond and the need to dispose of excess cut material on-site to avoid heavy construction traffic on neighboring roadways. Slopes on the interior of the pond were flattened to one (1) vertical on three (3) horizontal to lessen the volume of cut and avoid rock excavation on the uphill side of the pond, and increase the volume of fill required to construct the earthen embankment on the downhill side of the pond. Furthermore to enhance the stability of the earthen berm on the downhill side of the embankment, its side slopes were flattened to one (1) vertical on four (4) horizontal and a 50 foot wide bench added at mid height of the embankment. A section of the embankment on the downhill side of the pond was shown on a board. This section illustrated the brine being stored at its maximum depth of 30 feet and the soil profile beneath the earthen embankment. The design shown on the grading plan and illustrated on the section was found to result in a balance between cut and fill. Accordingly, all earthwork would be confined to the site.

## C.T. MALE ASSOCIATES, P.C.

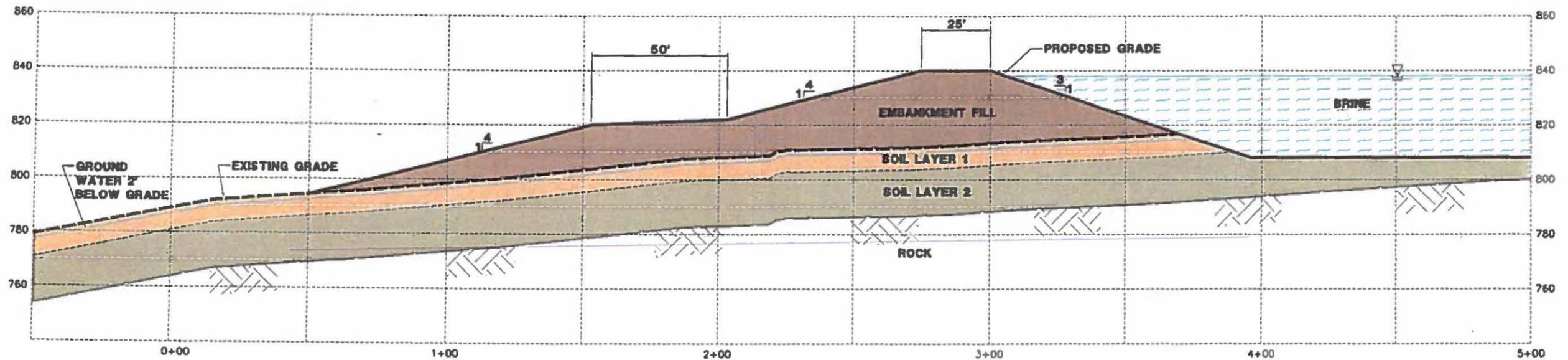
4.) The stability of the downstream embankment was analyzed using conservation soil strength parameters and an earthquake peak ground acceleration for the site obtained from the USGS web site. The factor of safety against the embankment's failure under this seismic event was analyzed for 100 potential sliding surfaces and found to have a value of at least 2.13. This safety factor was well in excess of the safety factors normally applied in geotechnical practice for slope stability, these being 1.25 to 1.50.

5.) The stability of the downstream embankment was also analyzed for an earthquake peak ground acceleration 50% greater than the acceleration obtained from the USGS web site. Under this acceleration, the factor of safety against a slope failure was found to equal 1.86, a value also well in excess of those normally applied in geotechnical practice.

6.) When asked if the embankment would fail, I stated that it would not fail with the design shown on the boards.

# BRINE POND SECTION PLAN SHEET 1 OF 2

Town of Reading  
Schuyler County, New York



**C.T. MALE ASSOCIATES, P.C.**

50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110  
(518) 786-7400 \* FAX (518) 786-7299  
ENGINEERING \* LAND SURVEYING \* BUILDING SYSTEMS  
LAND PLANNING \* ENVIRONMENTAL SERVICES \* GPS/GIS SERVICES  
OCTOBER 15, 2009 PROJ. NO: 08 B096  
BRINE POND SECTION PLAN.DWG  
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C.T. MALE ASSOCIATES P.C.







# Town of Reading

## Application for Special Permit Approval

Preliminary  Date: \_\_\_\_\_ Final  Date: \_\_\_\_\_  
(Check appropriate box)

Name of proposed development \_\_\_\_\_

Applicant: Michael A. Armstrong (Signature)  
Name Finger Lakes LPG Storage, LLC  
Address 800 Robinson Road  
Omega, NY 13827  
Telephone \_\_\_\_\_

Plans Prepared by:  
Name See Exhibit A  
Address \_\_\_\_\_  
Telephone \_\_\_\_\_

Owner (if different from applicant) \_\_\_\_\_ (Signature)  
Name \_\_\_\_\_ (If more than one owner, provide information for each.)  
Address \_\_\_\_\_  
Telephone \_\_\_\_\_  
Ownership intentions, i.e., purchase options \_\_\_\_\_

Location of site NYS Route 14 and NYS Route 14A

Tax map description: See Exhibit B

Section \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_

Classification (Solid waste management, business, institutional, multifamily housing, mobile home park, Seneca Lake Protection Area)  
Use or occupancy of greater than 15,000 sq. ft. of land and Seneca Lake Protection Area (Plant Area and Brine Pond)

State and federal permits needed (List type and appropriate department):  
See Environmental Assessment Form (p. 8 of 21)

Proposed use(s) of site Underground Liquid Petroleum Gas Storage Facility

Total site area (square feet or acres) approximately 67 acres; total permanent disturbed area = approximately 11 acres

Anticipated construction time Start October 2009; complete March 15, 2009

Will development be staged? No

Current land use of site (agriculture, commercial, undeveloped, etc.): Salt production; Vacant; Agriculture

Current condition of site (buildings, brush, etc.) No buildings, mostly brush, some wooded areas



**Exhibit A**

**Plans Prepared by the Following:**

Jessica Skinner P.E.  
JESS Engineering, PLLC  
2121 County Rte 10  
Alpine NY 14805  
Mobile: (585) 314-8517  
Fax: (607) 594-6726  
E-mail: jskinner@empireaccess.net

Raymond T. Liuzzo  
Project Surveyor  
C.T. Male Associates, PC  
50 Century Hill Drive  
Latham NY 12110-2122  
Phone: (518) 786-7613  
Fax: (518) 786-7299  
E-mail: r.liuzzo@ctmale.com

Donald Fernald  
Superior Energy Systems, Ltd.  
13660 North Station Road  
Columbia State, Ohio 44028  
Phone: (440) 236-6009, ext. 226  
E-mail: Donald@superiornrg.com

**Exhibit B**

**Tax Map Description**

43.00-1-29.1 (Rail/Truck Area)

43.00-1-15 (Plant Area)

53.00-1-12.1 (Brine Pond)

43.00-1-24.2 (TEPCO site and beginning of pipeline)

53.00-1-12.1 (pipeline to Plant Area and from Plant Area [Parcel 43.00-1-15] to storage caverns and to Brine Pond)

43.00-1-19 (pipeline from Plant Area to Rail/Truck Area and Electric Line)

## Exhibit C

### I. Project and Process Description

Finger Lakes LPG Storage, LLC, a subsidiary of Inergy Midstream, LLC plans to construct a multi-cycle LPG (liquid propane and butane) storage system with a major pipeline connection and rail and truck load/unload racks.

LPG (Butane or propane) will be stored in caverns in the Syracuse Salt formation on company owned property. The cavern was created by solution mining salt for consumer use by U.S. Salt.

The caverns will initially be full of brine (as they are now). A multi-stage split case centrifugal (or equivalent) pump (high pressure pump) will be used to transfer product to the cavern from the Texas Eastern Pipeline Company (TEPCO) pipeline or via rail or truck. During the injection cycle, brine will be displaced out the bottom of the cavern as the LPG is pumped in the top. The process will be reversed during the withdrawal cycle when brine is pumped into the bottom of the cavern and LPG is withdrawn from the top. A surface pressure of approximately 1000 psi will be maintained when LPG is in the cavern, depending on the surface elevation of the well and depth of the cavern.

LPG can be received by pipeline (TEPCO), truck or rail. The pipeline will feed the suction of the high pressure pump for injection directly into the cavern in the injection cycle at an initial design rate of 5,100 Barrels Per Day (BPD) to 20,000 BPD. The railrack (to be constructed on property recently acquired by Finger Lakes LPG Storage) is projected to be capable of loading or unloading 24 rail cars in 12 hours with space to park 24 rail cars. Surge capacity (bullet storage tanks) will consist of 5-30,000 gallon vessels, which can be used for butane or propane. The truck rack is projected to be capable of loading or unloading 30 trucks/day with 2 bays, expandable to 4 bays.

A transfer pump system utilizing centrifugal "can" pumps will be installed to load trucks and to supply the required Net Positive Suction Head (NPSH), a critical factor when pumping LPG to the high pressure pumps. A vapor circulation system utilizing Corken compressors will be utilized to unload rail cars or trucks.

Propane will be withdrawn through a dehydration system to remove any water vapor from the product.

Brine circulated from the caverns will be stored in an above ground pond. All brine will be circulated through a separator with an active flare before being transferred to storage in the pond.

LPG will be withdrawn as brine is injected into the cavern. The LPG will have adequate head to directly enter the TEPCO pipeline, railcars or trucks at a controlled rate through a variable choke system with pressure over rides and shutins.

All design will be in accordance with applicable NFPA, OSHA (PSM), DOT and DEC specifications. The pumps and compressors will be powered by electricity. The interconnecting pipelines will utilize high tensile steel pipe and fittings, coated with TFE when installed below grade.

## **II. Further Description of Structures at Each Project Location:**

### **A. Rail/Truck Area**

There will be a new entrance to this site (per a Highway Permit from NYSDOT) to access the rail/truck loading and unloading area. This area will include the following buildings/structures:

- 6 rail spurs
- 5 product storage tanks (30,000 gallons each). The tanks will be on concrete footers and will be 65' long and 8' in diameter.
- Control building of 24x32'
- Truck canopy (not fully enclosed) of 30x40'
- 3 kiosk buildings (approximately 6x8' each) enclosed, heated and cooled
- Approximately 3,100 feet of chain link fence

### **B. Plant Area**

The Plant Area will consist of a canopy building to house four (4) 700 hp pumps (to be used to bring product in and pull brine out of the caverns). The Building will be approximately 40x60x15' (height). There will also be a small control building (10x12') and a 10x40' motor control center (MCC). The total area of disturbance for the Plant Area will be approximately 300x400', but leaving a buffer along NYS Route 14. This will include parking. In addition, there will be an approximate 60x90' substation (will be separately fenced) which will be the source of power for the pumps.

### **C. Brine Pond**

The brine pond location will have no other building structure. The irregularly shaped pond will hold approximately 75.6 million gallons of brine and will be approximately 32' deep, 386-608' wide, and 1052' long.

### **D. Pipeline and Transmission Line**

There will be several sections of pipeline and electric transmission line (regulated by the Public Service Commission) as follows:

- Electric Line: approximately 6,850' total (2,840' underground and 4,010' overhead)

- Pipeline: approximately 10,625' total (TEPCO to Plant Area – 1805'; Plant Area to Caverns – 2,635'; Caverns to Brine Pond – 1,485'; Plant Area to Rail/Truck Area – 4,700') of 12" diameter steel pipeline

### **III. Additional Information**

#### **A. Lighting**

A Lighting Plan is included as one of the drawings attached to the Narrative Report.

#### **B. Signage**

The sign for the facility will be located at the entrance to the Rail/Truck Area, will be double-sided, approximately 4 x 8 feet and approximately ½ inch thick. See photo example from the Inergy Midstream Storage Facility in Savona.

#### **C. Pollution Control**

The Project has submitted a Notice of Intent for coverage under the New York State Department of Environmental Conservation's Stormwater General Permit and has prepared a Stormwater Pollution Prevention Plan. A copy of said Plan has been provided to the Town's Code Enforcement Officer and is incorporated herein by reference.

**Narrative Report**  
**Application of Finger Lakes LPG Storage, LLC for a Special Permit**

**I. Description of Project**

Finger Lakes LPG Storage, LLC, a subsidiary of Inergy Midstream, LLC plans to construct a multi-cycle LPG (liquid propane and butane) storage system with a major pipeline connection and rail and truck load/unload racks.

LPG (Butane or propane) will be stored in depleted salt caverns in the Syracuse Salt formation on company owned property.

The caverns will initially be full of brine (as they are now). Product will be transferred to the caverns from the Texas Eastern Pipeline Company (TEPCO) pipeline or via rail or truck. During the injection cycle, brine will be displaced out the bottom of the cavern as the LPG is pumped in the top. The process will be reversed during the withdrawal cycle when brine is pumped into the bottom of the cavern and LPG is withdrawn from the top.

The railrack (to be constructed on property recently acquired by Finger Lakes LPG Storage, LLC) is projected to be capable of loading or unloading 24 rail cars in 12 hours with space to park 24 rail cars. Surge capacity (bullet storage tanks) will consist of 5-30,000 gallon vessels, which can be used for butane or propane. The truck rack is projected to be capable of loading or unloading 30 trucks/day with 2 bays, expandable to 4 bays.

Brine circulated from the caverns will be stored in an above ground pond. All brine will be circulated through a separator with an active flare before being transferred to storage in the pond.

All design will be in accordance with applicable NFPA, OSHA (PSM), DOT, and DEC (stormwater) specifications. The pumps and compressors will be powered by electricity. The interconnecting pipelines will utilize high tensile steel pipe and fittings, coated with TFE when installed below grade.

**II. Compliance with Criteria in Findings**

**A. Finding 6.3-1**

Will comply with all provisions and requirements of this and other local laws and regulations, and will fulfill the purposes of this land use law as stated in Chapter 1.

*Fingers Lakes Compliance: With this application, Finger Lakes will comply with all applicable laws and regulations, including with respect to the Seneca Lake Protection Area (Section 4.10), and with the General Land Use Performance Standards (Section 4.1).*

**B. Finding 6.3-2**

Will not result in excessive noise, dust, odors, solid waste, or glare, or create any other nuisances, and will satisfy the General Land Use Performance Standards in Section 4.1.

*Fingers Lakes Compliance: The Project is adjacent to two (2) State highways where traffic is the predominant sound source. The Plant Area and the Rail/Truck Area will both be buffered with vegetation which will remain after construction is complete or with additional landscaping. The pumps at the Plant Area will have a decibel (dBA) level of 85 at three (3) feet. The closest receptors are as follows:*

*North: Motel – 725 feet  
Residence (at intersection of NYS Routes 14 and 14A) – 1730 feet*

*West: Residence (across NYS Route 14) – 895 feet  
Motel (across NYS Route 14) – 950 feet  
TEPCO (across NYS Route 14) – 1585 feet*

*Given that sound levels decrease 6 dBA with a doubling of distance, the decibel level from the pumps will be minimal at these nearby receptors and will likely not be noticed given the traffic on these state highways.*

*Any dust will be addressed as part of the Storm Water Pollution Prevention Plan (SWPPP) through the implementation of erosion and sediment controls. Of the approximately 67 acres being affected, only approximately 11 acres of impervious surface will be added. The remainder will be restored with topsoil and seeded and mulched.*

*There will be no odors associated with the Project. Propane and butane are typically odorless when stored. The brine pond will be free of bacteria due to the inherent properties of salt. There may be an occasion where customers withdrawing product from storage in rail car may apply an odorant (ethyl mercaptan).*

*The Facility will not generate excessive solid waste. The Plant Area and the Rail/Truck Area will be equipped with dumpsters and licensed trash haulers will empty such dumpsters on a regular basis for disposal of such waste in a permitted landfill.*

*There will be no glare generated by any of the equipment at any of the Project locations.*

*The operation of the Facility and pipelines must comply with OSHA, DOT, DEC and NFPA requirements, all of which are designed to ensure that the Facility is operated safely.*

*The Facility (including the brine pond, which will be lined) will be designed to ensure that there will be no impact to nearby wetlands, surface water or ground water.*

*There will be no emissions into the air that may damage the health of persons, animals or plants or damage property. The proposed equipment and operations of the Facility are exempt from air permitting since any potential air emission sources are well below regulatory thresholds for air pollutants.*

*If there are toilet facilities on site, they will be connected to a septic system which will be constructed in compliance with County Health rules and regulations.*

**C. Finding 6.3-3**

Will be suitable for the property on which it is proposed, considering the property's size, location, topography, vegetation, soils, natural habitat, and hydrology, and, if appropriate, its ability to be buffered or screened from neighboring properties and public roads.

*Fingers Lakes Compliance: The Plant Area is within an enclosed, fenced property that is adjacent to the Seneca Lake Storage Underground Natural Gas Facility, on property owned by U.S. Salt, and on NYS Route 14. The Rail/Truck Area is next to a Truck Transportation Facility, a former solid waste transfer station, a New York State highway (NYS Route 14A) and a rail corridor (Norfolk Southern). The Brine Pond will be located on vacant U.S. Salt property along NYS Route 14. The topography, soils and hydrology will be shown on the drawings submitted with this application. However, given the above, the Project locations are suitable considering all of the factors listed in this Finding. Moreover, where necessary, the Site Plan has indicated where buffer will remain or landscaping added.*

**D. Finding 6.3-4**

Will not cause undue traffic congestions, unduly impair pedestrian or vehicular safety, or overload existing roads, considering their current width, surfacing, and condition, and will have appropriate parking and be accessible to fire, police, and other emergency vehicles. Road access points will have sufficient sight distances to assure visibility of vehicles.

*Fingers Lakes Compliance: The Facility is accessed by NYS Route 14 and 14A. There will be one additional curb cut (to be installed per a NYSDOT Highway Work Permit) to access the Rail/Truck Area on NYS Route 14A. Bringing product in or having it leave the Facility by truck will be the least common mode of product delivery. The EAF estimates that approximately 4 trucks per hour may be generated from the Rail/Truck Area. NYSDOT collects traffic count information and based on that*

*information provides the Annual Average Daily Traffic (AADT). AADT represents the total volume of vehicle traffic of a segment of road for a year divided by 365. For the segment of NYS Route 14A north of the ramp off of NYS Route 14, the AADT is 2340 vehicles. For the segment of NYS Route 14 south of the NYS Route 14A ramp, the AADT is 6290 with approximately 13-15% being heavy vehicles. For the segment of NYS Route 14 north of the NYS Route 14A ramp, the AADT is 3427. Attached are NYSDOT data sheets for the first two (2) segments. NYSDOT data sheets were not available for the last segment. Given the estimate that only four (4) trucks per hour may be generated from the rail/truck area, these would not cause a discernible impact to the overall traffic that currently utilizes NYS Routes 14 and 14A. Thus, this minimal level of traffic is not expected to cause any congestion or impair vehicular safety. There will also be construction traffic, but this will only last approximately 6 months while the Facility is being constructed. The Plant Area and Rail/Truck Area will have parking and this is shown in the drawings submitted with this application.*

**E. Finding 6.3-5**

Will not overland any public water, drainage, or sewer system, or any other municipal facility, or degrade any natural resource or ecosystem, including Seneca Lake or its tributaries.

*Fingers Lakes Compliance: There is no nearby public water, drainage or sewer system. The Project will not impact or otherwise degrade any natural resource or ecosystem. In addition, as shown on the drawings, there will be permanent stormwater control structures at each location.*

**F. Finding 6.3-6**

Will be subject to such conditions on design and layout of structures, provision of buffer areas, and operation of the use as may be necessary to ensure compatibility with surrounding uses and to protect the natural, historic and scenic resources of the Town. Where water and sewer services are available, the Planning Board may require development to be clustered in the pattern of a traditional village or hamlet with visually or environmentally important open space preserved by a deed restriction or conservation easement. Where water and sewer utilities are not available, the Planning Board shall encourage such a pattern to the extent feasible.

*Fingers Lakes Compliance: The Project has been located so that it will not be incompatible with surrounding land uses or will otherwise be buffered, to the maximum extent practicable, from surrounding receptors.*

**G. Finding 6.3-7**

Will be consistent with the goals of concentrating retail uses in hamlets, and incorporated villages, avoiding strip commercial development and residential sprawl

development, and locating non-residential uses, that are incompatible with residential use in well-buffered rural locations.

*Fingers Lakes Compliance: The Project is consistent with the goal of locating non-residential uses (such as this Facility) in well-buffered rural locations.*

**H. Finding 6.3-8**

Will comply with the Rural Siting Guidelines in Section 4.8, if applicable, and with the Site Plan criteria in Appendix I, Section I.3.

*Fingers Lakes Compliance: The Project will comply with the Rural Siting Guidelines and Site Plan Criteria.*

**III. Submission of Drawings**

The following drawings are being submitted with Finger Lake's Special Permit Application:

- Sheet 1: Cover Sheet
- Sheet 2: Plan View – Rail/Truck Area
- Sheet 3: Plan View – Rail/Truck Area – Office Area
- Sheet 4: Plan View – Brine Pond
- Sheet 5: Plan View – Plant Area
- Sheet 6: Location Map

Overview Aerial Drawing

Elevation Drawing for Office Area Building

Lighting Plan

## Traffic Data









New York State Department of Transportation  
Classification Count Average Weekday Data Report

ROUTE #: NY 14  
COUNTY NAME: Schuyler  
REGION CODE: 6  
FROM: RT 409 END 414 OLAP  
TO: RT 14A OVER  
REF-MARKER: 14 63021082  
END MILEPOINT: 0211046  
FUNC-CLASS: 02  
STATION NO: 0016  
COUNT TAKEN BY: HPMS NO: 4  
PROCESSED BY: ORG CODE: TST INITIALS: JSV  
HPMS NO: HPMS NO:  
ORG CODE: DOT INITIALS: TGB

ROAD NAME: 14

YEAR: 2006  
MONTH: April

STATION: 630016

DIRECTION	North	South	TOTAL
NUMBER OF VEHICLES	2954	3000	5954
NUMBER OF AXLES	6516	6773	13289
% HEAVY VEHICLES (F4-F13)	13.10%	15.87%	14.49%
% TRUCKS AND BUSES (F3-F13)	36.63%	39.17%	37.86%
AXLE CORRECTION FACTOR	0.91	0.89	0.90

BATCH ID: DOT-r6ww17

VEHICLE CLASS	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	TOTAL
NO. OF AXLES	2	2	2	2.5	2	3	4	3.5	5	6	5	6	8.75	
ENDING HOUR	1:00	0	14	3	0	0	0	0	2	0	2	0	0	21
	2:00	0	10	2	0	0	0	0	4	0	0	0	0	16
	3:00	0	5	2	0	0	0	0	3	0	0	0	0	10
	4:00	0	4	3	0	0	0	0	2	0	0	0	0	9
	5:00	0	6	1	1	0	0	0	3	1	0	0	0	12
	6:00	0	11	8	1	3	0	0	7	0	0	0	0	30
	7:00	0	40	16	2	5	1	0	1	0	0	0	0	72
	8:00	0	75	28	3	14	0	0	4	5	2	0	0	131
	9:00	0	94	40	3	8	0	0	2	10	0	0	0	157
DIRECTION	10:00	0	99	47	2	12	0	0	2	11	1	0	0	174
North	11:00	1	101	44	4	12	1	0	2	15	2	0	0	182
	12:00	0	106	45	2	13	2	0	2	11	2	0	0	183
	13:00	0	112	48	2	8	1	0	5	12	2	0	0	190
	14:00	0	120	48	3	11	1	0	4	6	1	0	0	194
	15:00	0	140	48	4	9	2	0	1	8	1	0	0	213
	16:00	0	178	68	4	9	1	0	1	7	1	0	0	269
	17:00	0	190	61	2	9	1	0	0	7	1	0	0	271
	18:00	0	182	55	1	9	2	0	1	10	0	0	0	260
	19:00	0	106	36	1	5	0	0	0	5	0	1	0	154
	20:00	0	87	28	1	2	0	0	1	5	0	0	0	124
	21:00	0	69	25	1	3	0	0	0	8	0	0	0	104
	22:00	0	66	16	0	2	0	0	1	4	0	0	0	89
	23:00	0	38	15	1	1	0	0	0	4	0	0	0	59
	24:00	0	21	5	0	1	0	0	0	3	0	0	0	30
TOTAL VEHICLES		1	1874	892	38	136	12	0	27	157	14	3	0	2954
TOTAL AXLES		2	3748	1384	95	272	36	0	94	785	84	15	0	6516
ENDING HOUR	1:00	0	6	1	0	1	0	0	0	3	0	0	0	11
	2:00	0	6	1	0	0	0	0	0	4	0	0	0	11
	3:00	0	4	0	1	0	0	0	0	4	0	1	0	10
	4:00	0	3	0	1	0	0	0	0	4	0	0	0	8
	5:00	1	8	3	2	2	0	0	0	2	0	0	0	18
	6:00	0	29	18	2	7	1	0	0	6	0	1	0	62
	7:00	0	82	46	3	4	2	0	1	6	0	0	0	144
	8:00	0	153	52	2	10	1	0	3	8	0	0	0	229
	9:00	0	136	55	4	10	1	0	1	12	1	0	0	220
	10:00	0	120	48	3	10	1	0	3	12	1	0	0	198
DIRECTION	11:00	0	120	50	4	13	1	0	3	16	1	0	0	208
South	12:00	0	119	45	4	11	0	0	3	18	2	0	0	202
	13:00	0	117	46	4	12	1	0	5	15	1	0	0	201
	14:00	0	116	51	2	13	1	0	5	14	2	0	0	204
	15:00	0	130	40	4	12	1	0	3	13	1	0	0	204
	16:00	0	122	48	3	13	1	0	5	10	2	0	0	204
	17:00	0	124	48	3	8	2	0	4	10	1	0	0	200
	18:00	0	124	46	1	6	0	0	2	9	0	0	0	190
	19:00	0	98	34	1	6	0	0	1	10	0	0	0	150
	20:00	0	72	26	2	3	0	0	2	8	0	0	0	113
	21:00	0	51	18	1	4	0	0	1	5	0	0	0	81
	22:00	0	39	14	0	1	1	0	0	5	0	0	0	60
	23:00	0	31	8	1	2	0	0	1	4	0	2	0	49
	24:00	0	16	3	0	1	0	0	0	5	0	0	0	25
TOTAL VEHICLES		1	1824	699	48	161	15	0	43	203	12	4	0	3000
TOTAL AXLES		2	3648	1398	120	302	45	0	150	1015	72	20	0	6773
GRAND TOTAL VEHICLES		2	3698	1391	86	287	27	0	70	360	26	7	0	5954
GRAND TOTAL AXLES		4	7396	2782	215	574	81	0	245	1800	156	35	0	13289

VEHICLE CLASSIFICATION CODES:

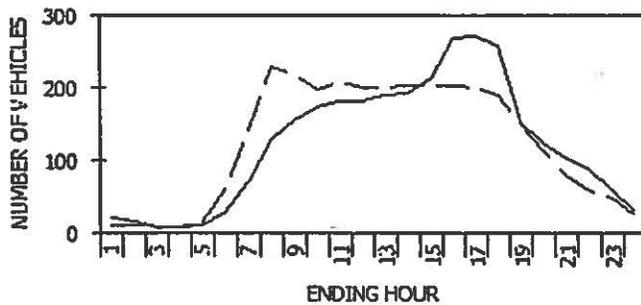
- F1. Motorcycles
- F2. Autos\*
- F3. 2 Axle, 4-Tire Pickups, Vans, Motorhomes\*
- F4. Buses
- F5. 2 Axle, 6-Tire Single Unit Trucks
- F6. 3 Axle Single Unit Trucks
- F7. 4 or More Axle Single Unit Trucks
- F8. 4 or Less Axle Vehicles, One Unit is a Truck
- F9. 5 Axle Double Unit Vehicles, One Unit is a Truck
- F10. 6 or More Double Unit Vehicles, One Unit is a Truck
- F11. 5 or Less Axle Multi-Unit Trucks
- F12. 6 Axle Multi-Unit Trucks
- F13. 7 or More Axle Multi-Unit Trucks

\* INCLUDING THOSE HAULING TRAILERS

FUNCTIONAL CLASS CODES:

- | RURAL | URBAN | SYSTEM                        |
|-------|-------|-------------------------------|
| 01    | 11    | PRINCIPAL ARTERIAL-INTERSTATE |
| 02    | 12    | PRINCIPAL ARTERIAL-EXPRESSWAY |
| 02    | 14    | PRINCIPAL ARTERIAL-OTHER      |
| 06    | 16    | MINOR ARTERIAL                |
| 07    | 17    | MAJOR COLLECTOR               |
| 08    | 17    | MINOR COLLECTOR               |
| 09    | 19    | LOCAL SYSTEM                  |

TRAFFIC FLOW BY DIRECTION



PEAK HOUR DATA					
DIRECTION	HOUR	COUNT	2-WAY	HOUR	COUNT
North	17	271	A.M.	11	350
South	8	229	P.M.	16	473

New York State Department of Transportation  
Speed Count Average Weekday Report

Station: 630016  
Route #: NY 14 Road name: 14  
From: RT 409 END 414 OLAP  
To: RT 14A OVER  
Direction: North  
Lanes: 1, 2

Start date: Mon 04/24/2006 15:00  
End date: Fri 04/28/2006 11:45  
County: Schuyler  
Town: .READING  
Speed limit: 55

Count duration: 93 hours  
Functional class: 2  
Factor group: 40  
Batch ID: DOT-r6ww17  
Count taken by: Org: TST Init: JSV  
Processed by: Org: DOT Init: TGB

Speeds, mph

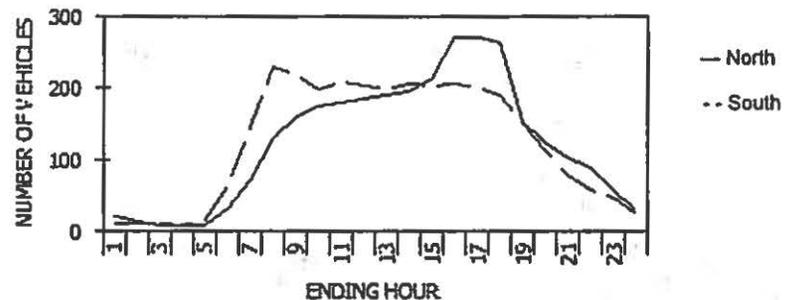
Hour	0-0- 30.0	30.1- 35.0	35.1- 40.0	40.1- 45.0	45.1- 50.0	50.1- 55.0	55.1- 60.0	60.1- 65.0	65.1- 70.0	70.1- 75.0	75.1- 80.0	80.1- 85.0	85.1- 115.0	% Exc 55.0	% Exc 60.0	% Exc 65.0	% Exc 70.0	% Exc 75.0	Avg	50th%	85th%	Total
1:00	0	1	0	4	4	7	4	1	0	0	0	0	0	23.8	4.8	0.0	0.0	0.0	49.1	51.1	57.4	21
2:00	0	1	0	0	3	6	3	2	0	0	0	0	0	33.3	13.3	0.0	0.0	0.0	51.3	53.0	59.6	15
3:00	1	0	0	2	2	2	2	1	0	0	0	0	0	30.0	10.0	0.0	0.0	0.0	43.9	50.0	58.8	10
4:00	0	1	2	1	1	2	2	0	0	0	0	0	0	22.2	0.0	0.0	0.0	0.0	44.7	47.6	56.7	9
5:00	0	2	1	2	2	3	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	42.6	45.0	52.6	10
6:00	1	2	2	2	3	9	10	3	0	0	0	0	0	40.6	9.4	0.0	0.0	0.0	47.9	53.4	59.2	32
7:00	3	2	2	3	7	19	21	12	4	0	0	0	0	50.7	21.9	5.5	0.0	0.0	50.0	55.2	62.2	73
8:00	3	4	4	4	13	34	38	25	4	1	0	0	0	52.3	23.1	3.8	0.8	0.0	51.4	55.4	62.2	130
9:00	3	2	9	5	17	38	57	24	2	1	0	0	0	53.2	17.1	1.9	0.6	0.0	51.5	55.5	60.7	158
10:00	2	3	6	9	22	58	48	22	4	0	0	0	0	42.5	14.9	2.3	0.0	0.0	51.5	53.9	60.0	174
11:00	5	4	4	13	26	52	54	18	4	1	0	0	0	42.5	12.7	2.6	0.6	0.0	49.9	53.8	59.7	181
12:00	6	4	7	9	25	51	57	20	6	0	0	0	0	44.9	14.1	3.2	0.0	0.0	49.7	54.1	59.9	185
13:00	5	3	4	12	28	56	58	22	2	0	0	0	0	43.2	12.6	1.1	0.0	0.0	50.3	53.9	59.7	190
14:00	4	3	5	12	26	60	58	24	2	1	0	0	0	43.6	13.8	1.5	0.5	0.0	50.9	54.0	59.9	195
15:00	5	2	7	12	30	63	59	31	5	1	0	0	0	44.7	17.2	2.6	0.5	0.0	50.9	54.1	60.8	215
16:00	5	3	4	13	27	81	93	39	6	1	0	0	0	51.1	16.9	2.6	0.4	0.0	52.2	55.2	60.7	272
17:00	4	2	5	8	25	77	104	42	5	0	0	0	0	55.5	17.3	1.8	0.0	0.0	53.0	55.8	60.8	272
18:00	5	4	6	7	22	80	90	42	6	1	0	0	0	52.9	18.6	2.7	0.4	0.0	52.3	55.5	61.2	263
19:00	2	2	3	8	16	46	54	20	3	0	0	0	0	50.0	14.9	1.9	0.0	0.0	52.3	55.0	60.0	154
20:00	2	2	2	4	16	37	43	16	2	1	0	0	0	49.6	15.2	2.4	0.8	0.0	52.1	55.0	60.1	125
21:00	2	2	4	7	18	31	34	6	0	0	0	0	0	38.5	5.8	0.0	0.0	0.0	49.8	53.1	58.6	104
22:00	2	2	3	9	15	29	22	7	2	0	0	0	0	34.1	9.9	2.2	0.0	0.0	49.3	52.6	59.0	91
23:00	1	1	2	3	8	18	20	6	0	0	0	0	0	44.1	10.2	0.0	0.0	0.0	50.9	54.1	59.3	59
24:00	1	0	1	2	7	10	6	2	0	0	0	0	0	27.6	6.9	0.0	0.0	0.0	48.5	51.8	58.1	29
Avg. Daily Total	62	52	83	151	363	669	937	385	57	8	0	0	0	48.7	15.2	2.2	0.3	0.0	51.1	54.5	60.1	2967
Percent	2.1%	1.8%	2.8%	5.1%	12.2%	29.3%	31.8%	13.0%	1.9%	0.3%	0.0%	0.0%	0.0%									
Cum. Percent	2.1%	3.8%	6.6%	11.7%	24.0%	53.3%	84.8%	97.8%	99.7%	100.0%	100.0%	100.0%	100.0%									
Average hour	3	2	3	6	15	36	39	16	2	0	0	0	0									124

TRAFFIC FLOW BY DIRECTION

	Avg. Speed	50th% Speed	85th% Speed
North	51.1	54.5	60.1
South	52.4	55.5	61.0

Peak Hour Data					
Direction	Hour	Count	2-way	Hour	Count
North	16	272	A.M.	11	390
South	8	230	P.M.	16	478



New York State Department of Transportation  
Speed Count Average Weekday Report

Station: 630016  
Route #: NY 14 Road name: 14  
From: RT 409 END 414 OLAP  
To: RT 14A OVER  
Direction: South  
Lanes: 1, 2

Start date: Mon 04/24/2006 15:00  
End date: Fri 04/28/2006 11:45  
County: Schuyler  
Town: READING  
Speed limit: 55

Count duration: 93 hours  
Functional class: 2  
Factor group: 40  
Batch ID: DOT-r6ww17  
Count taken by: Org: TST Init: JSV  
Processed by: Org: DOT Init: TGB

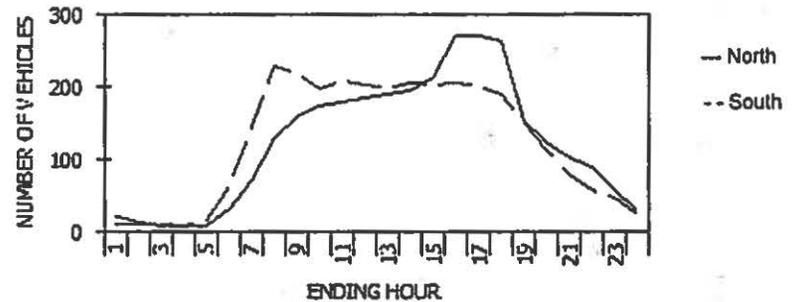
Speeds, mph

Hour	0-30.0	30.1-35.0	35.1-40.0	40.1-45.0	45.1-50.0	50.1-55.0	55.1-60.0	60.1-65.0	65.1-70.0	70.1-75.0	75.1-80.0	80.1-85.0	85.1-115.0	% Exc 55.0	% Exc 60.0	% Exc 65.0	% Exc 70.0	% Exc 75.0	Avg	50th%	85th%	Total
1:00	0	0	0	1	3	5	2	0	0	0	0	0	0	18.2	0.0	0.0	0.0	0.0	50.8	51.8	55.9	11
2:00	0	0	1	2	1	4	2	1	0	0	0	0	0	27.3	9.1	0.0	0.0	0.0	49.8	51.9	58.4	11
3:00	0	0	0	1	2	4	3	1	0	0	0	0	0	36.4	9.1	0.0	0.0	0.0	52.4	53.2	59.0	11
4:00	0	0	0	0	2	4	3	1	0	0	0	0	0	40.0	10.0	0.0	0.0	0.0	53.8	53.8	59.2	10
5:00	1	0	0	0	2	5	6	4	0	0	0	0	0	55.8	22.2	0.0	0.0	0.0	50.8	55.9	61.7	18
6:00	2	0	0	4	10	21	20	6	0	0	0	0	0	41.3	9.5	0.0	0.0	0.0	50.5	53.7	59.2	63
7:00	1	0	1	4	7	29	58	40	5	0	0	0	0	71.0	31.0	3.4	0.0	0.0	55.9	57.7	63.0	145
8:00	2	0	3	3	12	42	92	65	9	2	0	0	0	73.0	33.0	4.8	0.9	0.0	58.0	57.9	63.2	230
9:00	3	2	2	6	15	55	83	48	4	1	1	0	0	62.3	24.5	2.7	0.9	0.5	54.1	56.7	62.2	220
10:00	2	1	2	4	19	63	78	28	3	0	0	0	0	54.0	15.7	1.5	0.0	0.0	53.8	55.8	60.3	198
11:00	4	0	2	9	21	62	81	28	4	0	0	0	0	53.1	14.4	1.9	0.0	0.0	52.8	55.5	60.0	209
12:00	5	0	4	8	28	62	67	26	4	0	0	0	0	47.5	14.7	2.0	0.0	0.0	51.8	54.8	60.0	204
13:00	5	1	2	12	27	63	82	24	3	0	0	0	0	44.7	13.8	1.5	0.0	0.0	51.1	54.2	59.8	199
14:00	6	1	5	6	20	64	67	32	5	0	0	0	0	50.5	18.0	2.4	0.0	0.0	51.5	55.1	61.0	208
15:00	5	1	2	7	24	65	67	27	5	1	0	0	0	49.0	18.2	2.9	0.5	0.0	51.9	54.9	60.5	204
16:00	11	1	3	9	24	62	66	28	2	0	0	0	0	46.8	14.8	1.0	0.0	0.0	49.2	54.5	60.0	208
17:00	5	0	0	5	21	55	78	32	4	0	0	0	0	57.0	18.0	2.0	0.0	0.0	52.8	55.9	61.0	200
18:00	6	0	3	6	18	53	73	30	4	0	0	0	0	56.0	17.8	2.1	0.0	0.0	52.0	55.8	60.9	191
19:00	3	0	1	5	17	43	52	28	3	0	0	0	0	54.0	19.3	2.0	0.0	0.0	52.9	55.8	61.3	150
20:00	2	1	1	6	16	36	34	16	1	0	0	0	0	45.1	15.0	0.9	0.0	0.0	51.8	54.3	60.1	113
21:00	2	0	2	5	15	24	20	10	2	0	0	0	0	40.0	15.0	2.5	0.0	0.0	50.8	53.4	60.0	80
22:00	1	0	1	8	10	15	21	4	0	0	0	0	0	41.7	6.7	0.0	0.0	0.0	50.4	53.4	58.9	60
23:00	1	0	1	3	6	18	17	5	0	0	0	0	0	44.9	10.2	0.0	0.0	0.0	51.4	54.3	59.4	49
24:00	0	0	0	2	3	8	8	2	1	0	0	0	0	45.8	12.5	4.2	0.0	0.0	53.5	54.4	59.7	24
Avg. Daily Total	67	8	36	116	321	860	1058	482	59	4	1	0	0	53.3	18.1	2.1	0.2	0.0	52.4	55.5	61.0	3012
Percent	2.2%	0.3%	1.2%	3.9%	10.7%	28.6%	35.1%	18.0%	2.0%	0.1%	0.0%	0.0%	0.0%									
Cum. Percent	2.2%	2.5%	3.7%	7.5%	18.2%	46.7%	81.9%	97.9%	99.8%	100.0%	100.0%	100.0%	100.0%									
Average hour	3	0	2	5	13	38	44	20	2	0	0	0	0									126

TRAFFIC FLOW BY DIRECTION

	Avg. Speed	50th% Speed	85th% Speed
North	51.1	54.5	60.1
South	52.4	55.5	61.0

Direction	Peak Hour Data				
	Hour	Count	2-way A.M. P.M.	Hour	Count
North	16	272		11	390
South	8	230		16	478



**Example of Facility Entrance Sign**



ENERGY MIDSTREAM, LLC



STORAGE FACILITY

7535 EAGLE VALLEY ROAD  
SAVONA, NEW YORK 14879



617.20  
Appendix A  
State Environmental Quality Review  
FULL ENVIRONMENTAL ASSESSMENT FORM

**Purpose:** The full EAF is designed to help applicants and agencies determine, in an orderly manner, whether a project or action may be significant. The question of whether an action may be significant is not always easy to answer. Frequently, there are aspects of a project that are subjective or unmeasurable. It is also understood that those who determine significance may have little or no formal knowledge of the environment or may not be technically expert in environmental analysis. In addition, many who have knowledge in one particular area may not be aware of the broader concerns affecting the question of significance.

The full EAF is intended to provide a method whereby applicants and agencies can be assured that the determination process has been orderly, comprehensive in nature, yet flexible enough to allow introduction of information to fit a project or action.

**Full EAF Components:** The full EAF is comprised of three parts:

**Part 1:** Provides objective data and information about a given project and its site. By identifying basic project data, it assists a reviewer in the analysis that takes place in Parts 2 and 3.

**Part 2:** Focuses on identifying the range of possible impacts that may occur from a project or action. It provides guidance as to whether an impact is likely to be considered small to moderate or whether it is a potentially-large impact. The form also identifies whether an impact can be mitigated or reduced.

**Part 3:** If any impact in Part 2 is identified as potentially-large, then Part 3 is used to evaluate whether or not the impact is actually important.

---

**THIS AREA FOR LEAD AGENCY USE ONLY**

**DETERMINATION OF SIGNIFICANCE -- Type 1 and Unlisted Actions**

Identify the Portions of EAF completed for this project:

Part 1

Part 2

Part 3

Upon review of the information recorded on this EAF (Parts 1 and 2 and 3 if appropriate), and any other supporting information, and considering both the magnitude and importance of each impact, it is reasonably determined by the lead agency that:

- A. The project will not result in any large and important impact(s) and, therefore, is one which will not have a significant impact on the environment, therefore a negative declaration will be prepared.
- B. Although the project could have a significant effect on the environment, there will not be a significant effect for this Unlisted Action because the mitigation measures described in PART 3 have been required, therefore a **CONDITIONED** negative declaration will be prepared.\*
- C. The project may result in one or more large and important impacts that may have a significant impact on the environment, therefore a positive declaration will be prepared.

\*A Conditioned Negative Declaration is only valid for Unlisted Actions

Finger Lakes LPG Storage Facility

\_\_\_\_\_  
Name of Action

Town of Reading

\_\_\_\_\_  
Name of Lead Agency

\_\_\_\_\_  
Print or Type Name of Responsible Officer in Lead Agency

\_\_\_\_\_  
Title of Responsible Officer

\_\_\_\_\_  
Signature of Responsible Officer in Lead Agency

\_\_\_\_\_  
Signature of Preparer (If different from responsible officer)

**PART 1--PROJECT INFORMATION**  
**Prepared by Project Sponsor**

NOTICE: This document is designed to assist in determining whether the action proposed may have a significant effect on the environment. Please complete the entire form, Parts A through E. Answers to these questions will be considered as part of the application for approval and may be subject to further verification and public review. Provide any additional information you believe will be needed to complete Parts 2 and 3.

It is expected that completion of the full EAF will be dependent on information currently available and will not involve new studies, research or investigation. If information requiring such additional work is unavailable, so indicate and specify each instance.

Name of Action Finger Lakes Storage Facility

Location of Action (include Street Address, Municipality and County)

State Routes 14 - Route 14A

Name of Applicant/Sponsor Finger Lakes LPG Storage, LLC

Address 800 Robinson Road

City / PO Owego State NY Zip Code 13827

Business Telephone 607-689-0956

Name of Owner (if different) \_\_\_\_\_

Address \_\_\_\_\_

City / PO \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Business Telephone \_\_\_\_\_

Description of Action:

See Attached

Please Complete Each Question--Indicate N.A. if not applicable

**A. SITE DESCRIPTION**

Physical setting of overall project, both developed and undeveloped areas.

1. Present Land Use:  Urban  Industrial  Commercial  Residential (suburban)  Rural (non-farm)  
 Forest  Agriculture  Other \_\_\_\_\_

2. Total acreage of project area: 67 acres.

APPROXIMATE ACREAGE	PRESENTLY	AFTER COMPLETION
Meadow or Brushland (Non-agricultural)	<u>26</u> acres	_____ acres
Forested	<u>20</u> acres	_____ acres
Agricultural (Includes orchards, cropland, pasture, etc.)	<u>21</u> acres	_____ acres
Wetland (Freshwater or tidal as per Articles 24,25 of ECL)	_____ acres	_____ acres
Water Surface Area	_____ acres	<u>20</u> acres
Unvegetated (Rock, earth or fill)	_____ acres	_____ acres
Roads, buildings and other paved surfaces	_____ acres	<u>11</u> acres
Other (Indicate type) <u>Mowed Stormwater Control</u>	_____ acres	<u>36</u> acres

3. What is predominant soil type(s) on project site? Lansing

- a. Soil drainage:  Well drained \_\_\_\_\_% of site  Moderately well drained \_\_\_\_\_% of site.  
 Poorly drained 100 % of site

b. If any agricultural land is involved, how many acres of soil are classified within soil group 1 through 4 of the NYS Land Classification System? 5 acres (see 1 NYCRR 370).

4. Are there bedrock outcroppings on project site?  Yes  No

a. What is depth to bedrock 2 (in feet)

5. Approximate percentage of proposed project site with slopes:

- 0-10% \_\_\_\_\_%  10- 15% 90 %  15% or greater 10 %

6. Is project substantially contiguous to, or contain a building, site, or district, listed on the State or National Registers of Historic Places?  Yes  No

7. Is project substantially contiguous to a site listed on the Register of National Natural Landmarks?  Yes  No

8. What is the depth of the water table? varies (in feet)

9. Is site located over a primary, principal, or sole source aquifer?  Yes  No

10. Do hunting, fishing or shell fishing opportunities presently exist in the project area?  Yes  No

11. Does project site contain any species of plant or animal life that is identified as threatened or endangered?  Yes  No

According to:

NYS DEC Resource Mapper

Identify each species:

12. Are there any unique or unusual land forms on the project site? (i.e., cliffs, dunes, other geological formations?)

Yes  No

Describe:

Waterfalls and cliffs in unaffected areas

13. Is the project site presently used by the community or neighborhood as an open space or recreation area?

Yes  No

If yes, explain:

14. Does the present site include scenic views known to be important to the community?  Yes  No

Views of Seneca Lake

15. Streams within or contiguous to project area:

Two Class C tributaries to Seneca Lake - Unnamed

a. Name of Stream and name of River to which it is tributary

16. Lakes, ponds, wetland areas within or contiguous to project area:

Seneca Lake

b. Size (in acres):

43,343

17. Is the site served by existing public utilities?  Yes  No
- a. If YES, does sufficient capacity exist to allow connection?  Yes  No
- b. If YES, will improvements be necessary to allow connection?  Yes  No
18. Is the site located in an agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304?  Yes  No
19. Is the site located in or substantially contiguous to a Critical Environmental Area designated pursuant to Article 8 of the ECL, and 6 NYCRR 617?  Yes  No
20. Has the site ever been used for the disposal of solid or hazardous wastes?  Yes  No

**B. Project Description**

1. Physical dimensions and scale of project (fill in dimensions as appropriate).
- a. Total contiguous acreage owned or controlled by project sponsor: 576 acres.
- b. Project acreage to be developed: 11 acres initially; 11 acres ultimately.
- c. Project acreage to remain undeveloped: 565 acres.
- d. Length of project, in miles: 1.3 (if appropriate)
- e. If the project is an expansion, indicate percent of expansion proposed.      %
- f. Number of off-street parking spaces existing 0; proposed 12
- g. Maximum vehicular trips generated per hour: 4 (est) (upon completion of project)?
- h. If residential: Number and type of housing units:
- |            | One Family                  | Two Family                  | Multiple Family             | Condominium                 |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Initially  | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u> |
| Ultimately | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u> |
- i. Dimensions (in feet) of largest proposed structure: 15 height; 40 width; 60 length.
- j. Linear feet of frontage along a public thoroughfare project will occupy is? 430 ft.
2. How much natural material (i.e. rock, earth, etc.) will be removed from the site? 0 tons/cubic yards.
3. Will disturbed areas be reclaimed  Yes  No  N/A
- a. If yes, for what intended purpose is the site being reclaimed?
- Stormwater control
- b. Will topsoil be stockpiled for reclamation?  Yes  No
- c. Will upper subsoil be stockpiled for reclamation?  Yes  No
4. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site? 20 acres.

5. Will any mature forest (over 100 years old) or other locally-important vegetation be removed by this project?

Yes  No

6. If single phase project: Anticipated period of construction: 8 months, (including demolition)

7. If multi-phased:

a. Total number of phases anticipated \_\_\_\_\_ (number)

b. Anticipated date of commencement phase 1: \_\_\_\_\_ month \_\_\_\_\_ year, (including demolition)

c. Approximate completion date of final phase: \_\_\_\_\_ month \_\_\_\_\_ year.

d. Is phase 1 functionally dependent on subsequent phases?  Yes  No

8. Will blasting occur during construction?  Yes  No

9. Number of jobs generated: during construction 50; after project is complete 8-10

10. Number of jobs eliminated by this project 0.

11. Will project require relocation of any projects or facilities?  Yes  No

If yes, explain:

12. Is surface liquid waste disposal involved?  Yes  No

a. If yes, indicate type of waste (sewage, industrial, etc) and amount \_\_\_\_\_

b. Name of water body into which effluent will be discharged \_\_\_\_\_

13. Is subsurface liquid waste disposal involved?  Yes  No Type Septic - two restrooms in control room

14. Will surface area of an existing water body increase or decrease by proposal?  Yes  No

If yes, explain:

15. Is project or any portion of project located in a 100 year flood plain?  Yes  No

16. Will the project generate solid waste?  Yes  No

a. If yes, what is the amount per month? unk tons

b. If yes, will an existing solid waste facility be used?  Yes  No

c. If yes, give name permitted landfill; location (by hauler)

d. Will any wastes not go into a sewage disposal system or into a sanitary landfill?  Yes  No

e. If yes, explain:

17. Will the project involve the disposal of solid waste?  Yes  No

a. If yes, what is the anticipated rate of disposal? \_\_\_\_\_ tons/month.

b. If yes, what is the anticipated site life? \_\_\_\_\_ years.

18. Will project use herbicides or pesticides?  Yes  No

19. Will project routinely produce odors (more than one hour per day)?  Yes  No

20. Will project produce operating noise exceeding the local ambient noise levels?  Yes  No

21. Will project result in an increase in energy use?  Yes  No

If yes, indicate type(s)

Electrical usage - New Line from NYSEG's existing line is part of the proposed project.

22. If water supply is from wells, indicate pumping capacity N/A gallons/minute.

23. Total anticipated water usage per day unk gallons/day.

24. Does project involve Local, State or Federal funding?  Yes  No

If yes, explain:

25. Approvals Required:

		Type	Submittal Date
City, Town, Village Board	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Special Permit	
City, Town, Village Planning Board	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Special Permit	
City, Town Zoning Board	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
City, County Health Department	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Septic Water Supply	
Other Local Agencies	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Schuyler County IDA	
Other Regional Agencies	<input type="checkbox"/> Yes <input type="checkbox"/> No		
State Agencies	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DEC - Stormwater DEC - Underground Storage PSC - Pipelines	
Federal Agencies	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NYS DOT - Road borings & Entrances	

C. Zoning and Planning Information

1. Does proposed action involve a planning or zoning decision?  Yes  No

If Yes, indicate decision required:

- |   |  |  |                                      |
|---|--|--|--------------------------------------|
| <input type="checkbox"/> Zoning amendment     | <input type="checkbox"/> Zoning variance               | <input type="checkbox"/> New/revision of master plan | <input type="checkbox"/> Subdivision |
| <input checked="" type="checkbox"/> Site plan | <input checked="" type="checkbox"/> Special use permit | <input type="checkbox"/> Resource management plan    | <input type="checkbox"/> Other       |

2. What is the zoning classification(s) of the site?

n/a

3. What is the maximum potential development of the site if developed as permitted by the present zoning?

n/a

4. What is the proposed zoning of the site?

none

5. What is the maximum potential development of the site if developed as permitted by the proposed zoning?

n/a

6. Is the proposed action consistent with the recommended uses in adopted local land use plans?  Yes  No

7. What are the predominant land use(s) and zoning classifications within a ¼ mile radius of proposed action?

Agricultural / Commercial

8. Is the proposed action compatible with adjoining/surrounding land uses with a ¼ mile?  Yes  No

9. If the proposed action is the subdivision of land, how many lots are proposed? N/A

a. What is the minimum lot size proposed? N/A

10. Will proposed action require any authorization(s) for the formation of sewer or water districts?  Yes  No

11. Will the proposed action create a demand for any community provided services (recreation, education, police, fire protection)?

Yes  No

a. If yes, is existing capacity sufficient to handle projected demand?  Yes  No

12. Will the proposed action result in the generation of traffic significantly above present levels?  Yes  No

a. If yes, is the existing road network adequate to handle the additional traffic.  Yes  No

**D. Informational Details**

Attach any additional information as may be needed to clarify your project. If there are or may be any adverse impacts associated with your proposal, please discuss such impacts and the measures which you propose to mitigate or avoid them.

**E. Verification**

I certify that the information provided above is true to the best of my knowledge.

Applicant/Sponsor Name Finger Lakes LPG Storage, LLC Date August 28, 2009

Signature

Michael O'Connell

Title

Director Engineering

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment.

## PART 2 - PROJECT IMPACTS AND THEIR MAGNITUDE

### Responsibility of Lead Agency

**General Information (Read Carefully)**

- ! In completing the form the reviewer should be guided by the question: Have my responses and determinations been reasonable? The reviewer is not expected to be an expert environmental analyst.
- ! The Examples provided are to assist the reviewer by showing types of impacts and wherever possible the threshold of magnitude that would trigger a response in column 2. The examples are generally applicable throughout the State and for most situations. But, for any specific project or site other examples and/or lower thresholds may be appropriate for a Potential Large Impact response, thus requiring evaluation in Part 3.
- ! The impacts of each project, on each site, in each locality, will vary. Therefore, the examples are illustrative and have been offered as guidance. They do not constitute an exhaustive list of impacts and thresholds to answer each question.
- ! The number of examples per question does not indicate the importance of each question.
- ! In identifying impacts, consider long term, short term and cumulative effects.

**Instructions (Read carefully)**

- a. Answer each of the 20 questions in PART 2. Answer Yes if there will be any impact.
- b. Maybe answers should be considered as Yes answers.
- c. If answering Yes to a question then check the appropriate box(column 1 or 2)to indicate the potential size of the impact. If impact threshold equals or exceeds any example provided, check column 2. If impact will occur but threshold is lower than example, check column 1.
- d. Identifying that an Impact will be potentially large (column 2) does not mean that it is also necessarily significant. Any large impact must be evaluated in PART 3 to determine significance. Identifying an impact in column 2 simply asks that it be looked at further.
- e. If reviewer has doubt about size of the impact then consider the impact as potentially large and proceed to PART 3.
- f. If a potentially large impact checked in column 2 can be mitigated by change(s) in the project to a small to moderate impact, also check the Yes box in column 3. A No response indicates that such a reduction is not possible. This must be explained in Part 3.

	1	2	3
	Small to Moderate Impact	Potential Large Impact	Can Impact Be Mitigated by Project Change

#### Impact on Land

1. Will the Proposed Action result in a physical change to the project site?

NO  YES

**Examples that would apply to column 2**

- |  |                          |                          |                              |                             |
|--|--------------------------|--------------------------|------------------------------|-----------------------------|
| • Any construction on slopes of 15% or greater, (15 foot rise per 100 foot of length), or where the general slopes in the project area exceed 10%. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Construction on land where the depth to the water table is less than 3 feet.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Construction of paved parking area for 1,000 or more vehicles.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Construction on land where bedrock is exposed or generally within 3 feet of existing ground surface.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Construction that will continue for more than 1 year or involve more than one phase or stage.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Excavation for mining purposes that would remove more than 1,000 tons of natural material (i.e., rock or soil) per year.                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated by Project Change
• Construction or expansion of a sanitary landfill.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Construction in a designated floodway.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

2. Will there be an effect to any unique or unusual land forms found on the site? (i.e., cliffs, dunes, geological formations, etc.)

NO  YES

• Specific land forms:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
------------------------	--------------------------	--------------------------	--

**Impact on Water**

3. Will Proposed Action affect any water body designated as protected? (Under Articles 15, 24, 25 of the Environmental Conservation Law, ECL)

NO  YES

Examples that would apply to column 2

• Developable area of site contains a protected water body.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Dredging more than 100 cubic yards of material from channel of a protected stream.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Extension of utility distribution facilities through a protected water body.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Construction in a designated freshwater or tidal wetland.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

4. Will Proposed Action affect any non-protected existing or new body of water?

NO  YES

Examples that would apply to column 2

• A 10% increase or decrease in the surface area of any body of water or more than a 10 acre increase or decrease.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Construction of a body of water that exceeds 10 acres of surface area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No



1	2	3
Small to Moderate Impact	Potential Large Impact	Can Impact Be Mitigated by Project Change

6. Will Proposed Action alter drainage flow or patterns, or surface water runoff?

NO     YES

Examples that would apply to column 2

- |  |                          |                          |                              |                             |
|--|--------------------------|--------------------------|------------------------------|-----------------------------|
| • Proposed Action would change flood water flows                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action may cause substantial erosion.                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action is incompatible with existing drainage patterns. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will allow development in a designated floodway. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Other impacts:   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

**IMPACT ON AIR**

7. Will Proposed Action affect air quality?

NO     YES

Examples that would apply to column 2

- |   |                          |                          |                              |                             |
|---|--------------------------|--------------------------|------------------------------|-----------------------------|
| • Proposed Action will induce 1,000 or more vehicle trips in any given hour.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will result in the incineration of more than 1 ton of refuse per hour.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Emission rate of total contaminants will exceed 5 lbs. per hour or a heat source producing more than 10 million BTU's per hour. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will allow an increase in the amount of land committed to industrial use.                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will allow an increase in the density of industrial development within existing industrial areas.               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Other impacts:  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

**IMPACT ON PLANTS AND ANIMALS**

8. Will Proposed Action affect any threatened or endangered species?

NO     YES

Examples that would apply to column 2

- |   |                          |                          |                              |                             |
|---|--------------------------|--------------------------|------------------------------|-----------------------------|
| • Reduction of one or more species listed on the New York or Federal list, using the site, over or near the site, or found on the site. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
|---|--------------------------|--------------------------|------------------------------|-----------------------------|

	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated by Project Change
• Removal of any portion of a critical or significant wildlife habitat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Application of pesticide or herbicide more than twice a year, other than for agricultural purposes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

9. Will Proposed Action substantially affect non-threatened or non-endangered species?

NO  YES

Examples that would apply to column 2

- |  | 1<br>Small to<br>Moderate<br>Impact | 2<br>Potential<br>Large<br>Impact | 3<br>Can Impact Be<br>Mitigated by<br>Project Change     |
|--|-------------------------------------|-----------------------------------|--|
| • Proposed Action would substantially interfere with any resident or migratory fish, shellfish or wildlife species.                          | <input type="checkbox"/>            | <input type="checkbox"/>          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Proposed Action requires the removal of more than 10 acres of mature forest (over 100 years of age) or other locally important vegetation. | <input type="checkbox"/>            | <input type="checkbox"/>          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Other impacts:   | <input type="checkbox"/>            | <input type="checkbox"/>          | <input type="checkbox"/> Yes <input type="checkbox"/> No |

**IMPACT ON AGRICULTURAL LAND RESOURCES**

10. Will Proposed Action affect agricultural land resources?

NO  YES

Examples that would apply to column 2

- |  | 1<br>Small to<br>Moderate<br>Impact | 2<br>Potential<br>Large<br>Impact | 3<br>Can Impact Be<br>Mitigated by<br>Project Change     |
|--|-------------------------------------|-----------------------------------|--|
| • The Proposed Action would sever, cross or limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc.)                                 | <input type="checkbox"/>            | <input type="checkbox"/>          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Construction activity would excavate or compact the soil profile of agricultural land.   | <input type="checkbox"/>            | <input type="checkbox"/>          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • The Proposed Action would irreversibly convert more than 10 acres of agricultural land or, if located in an Agricultural District, more than 2.5 acres of agricultural land. | <input type="checkbox"/>            | <input type="checkbox"/>          | <input type="checkbox"/> Yes <input type="checkbox"/> No |

	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated by Project Change
• The Proposed Action would disrupt or prevent installation of agricultural land management systems (e.g., subsurface drain lines, outlet ditches, strip cropping); or create a need for such measures (e.g. cause a farm field to drain poorly due to increased runoff).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

**IMPACT ON AESTHETIC RESOURCES**

11. Will Proposed Action affect aesthetic resources? (If necessary, use the Visual EAF Addendum in Section 617.20, Appendix B.)

NO  YES

Examples that would apply to column 2

• Proposed land uses, or project components obviously different from or in sharp contrast to current surrounding land use patterns, whether man-made or natural.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Proposed land uses, or project components visible to users of aesthetic resources which will eliminate or significantly reduce their enjoyment of the aesthetic qualities of that resource.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Project components that will result in the elimination or significant screening of scenic views known to be important to the area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

**IMPACT ON HISTORIC AND ARCHAEOLOGICAL RESOURCES**

12. Will Proposed Action impact any site or structure of historic, prehistoric or paleontological importance?

NO  YES

Examples that would apply to column 2

• Proposed Action occurring wholly or partially within or substantially contiguous to any facility or site listed on the State or National Register of historic places.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Any impact to an archaeological site or fossil bed located within the project site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Proposed Action will occur in an area designated as sensitive for archaeological sites on the NYS Site Inventory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated by Project Change
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

**IMPACT ON OPEN SPACE AND RECREATION**

13. Will proposed Action affect the quantity or quality of existing or future open spaces or recreational opportunities?

NO  YES

Examples that would apply to column 2

- |   |                          |                          |  |
|---|--------------------------|--------------------------|--|
| • The permanent foreclosure of a future recreational opportunity. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • A major reduction of an open space important to the community.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Other impacts:  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |

**IMPACT ON CRITICAL ENVIRONMENTAL AREAS**

14. Will Proposed Action impact the exceptional or unique characteristics of a critical environmental area (CEA) established pursuant to subdivision 6NYCRR 617.14(g)?

NO  YES

List the environmental characteristics that caused the designation of the CEA.

Examples that would apply to column 2

- |   |                          |                          |  |
|---|--------------------------|--------------------------|--|
| • Proposed Action to locate within the CEA?                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Proposed Action will result in a reduction in the quantity of the resource? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Proposed Action will result in a reduction in the quality of the resource?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Proposed Action will impact the use, function or enjoyment of the resource? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| • Other impacts:  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |

1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated by Project Change
-------------------------------------	-----------------------------------	--

**IMPACT ON TRANSPORTATION**

15. Will there be an effect to existing transportation systems?

NO       YES

Examples that would apply to column 2

- |  |                          |                          |                              |                             |
|--|--------------------------|--------------------------|------------------------------|-----------------------------|
| • Alteration of present patterns of movement of people and/or goods. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will result in major traffic problems.             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Other impacts:   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

**IMPACT ON ENERGY**

16. Will Proposed Action affect the community's sources of fuel or energy supply?

NO       YES

Examples that would apply to column 2

- |   |                          |                          |                              |                             |
|---|--------------------------|--------------------------|------------------------------|-----------------------------|
| • Proposed Action will cause a greater than 5% increase in the use of any form of energy in the municipality.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two family residences or to serve a major commercial or industrial use. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Other impacts:  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

**NOISE AND ODOR IMPACT**

17. Will there be objectionable odors, noise, or vibration as a result of the Proposed Action?

NO       YES

Examples that would apply to column 2

- |  |                          |                          |                              |                             |
|--|--------------------------|--------------------------|------------------------------|-----------------------------|
| • Blasting within 1,500 feet of a hospital, school or other sensitive facility.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Odors will occur routinely (more than one hour per day).   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will produce operating noise exceeding the local ambient noise levels for noise outside of structures. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Proposed Action will remove natural barriers that would act as a noise screen.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| • Other impacts:   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |



	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated by Project Change
• Proposed Action will set an important precedent for future projects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Proposed Action will create or eliminate employment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Other impacts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

20. Is there, or is there likely to be, public controversy related to potential adverse environment impacts?

NO  YES

**If Any Action in Part 2 Is Identified as a Potential Large Impact or If you Cannot Determine the Magnitude of Impact, Proceed to Part 3**

## Part 3 - EVALUATION OF THE IMPORTANCE OF IMPACTS

### Responsibility of Lead Agency

Part 3 must be prepared if one or more impact(s) is considered to be potentially large, even if the impact(s) may be mitigated.

**Instructions** (If you need more space, attach additional sheets)

Discuss the following for each impact identified in Column 2 of Part 2:

1. Briefly describe the impact.
2. Describe (if applicable) how the impact could be mitigated or reduced to a small to moderate impact by project change(s).
3. Based on the information available, decide if it is reasonable to conclude that this impact is important.

To answer the question of importance, consider:

- ! The probability of the impact occurring
- ! The duration of the impact
- ! Its irreversibility, including permanently lost resources of value
- ! Whether the impact can or will be controlled
- ! The regional consequence of the impact
- ! Its potential divergence from local needs and goals
- ! Whether known objections to the project relate to this impact.

## Attachment to Environmental Assessment Form

Finger Lakes LPG Storage, LLC, a subsidiary of Inergy Midstream, LLC plans to construct a multi-cycle LPG storage system with a major pipeline connection and rail and truck load/unload racks.

LPG (Butane or propane) will be stored in a cavern in the Syracuse Salt formation on company owned property. The cavern was created by solution mining salt for consumer use.

The cavern will initially be full of brine. A multi-stage split case centrifugal (or equivalent) pump (high pressure pump) will be used to transfer LPG to the cavern from the Texas Eastern Pipeline Company (TEPCO) pipeline or via rail or truck. During the injection cycle, brine will be displaced out the bottom of the cavern as the LPG is pumped in the top. The process will be reversed during the withdrawal cycle when brine is pumped into the bottom of the cavern and LPG is withdrawn from the top. A surface pressure of approximately 1000 psi will be maintained when LPG is in the cavern, depending on the surface elevation of the well and depth of the cavern.

LPG can be received by pipeline (TEPCO), truck or rail. The pipeline will feed the suction of the high pressure pump for injection directly into the cavern in the injection cycle at an initial design rate of 5,100 Barrels Per Day (BPD) to 20,000 BPD. The railrack (to be constructed on property to be acquired by Finger Lakes Storage) is projected to be capable of loading or unloading 24 rail cars in 12 hours with space to park 24 rail cars. Surge capacity (bullet storage tanks) will consist of 5-33,000 gallon vessels, which can be used for butane or propane. The truck rack is projected to be capable of loading or unloading 30 trucks/day with 2 bays, expandable to 4 bays.

A transfer pump system utilizing centrifugal "can" pumps will be installed to load trucks and to supply the required Net Positive Suction Head (NPSH), a critical factor when pumping LPG to the high pressure pumps. A vapor circulation system utilizing Corken compressors will be utilized to unload rail cars or trucks.

Propane will be withdrawn through a dehydration system to remove any water vapor from the product.

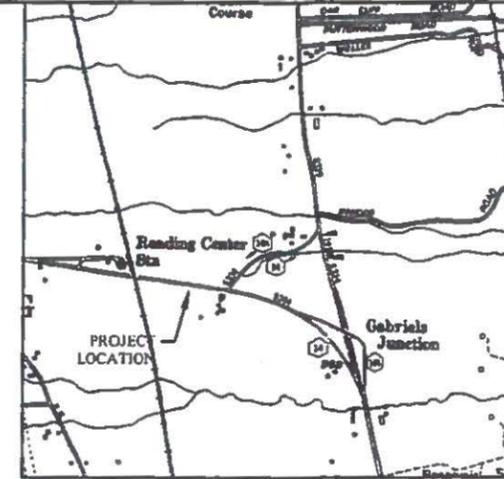
Brine circulated from the caverns will be stored in above ground basins, location to be determined. All brine will be circulated through a separator with an active flare before being transferred to storage in the pond.

LPG will be withdrawn as brine is injected into the cavern. The LPG will have adequate head to directly enter the TEPCO pipeline, railcars or trucks at a controlled rate through a variable choke system with pressure over rides and shutins.

All design will be in accordance with applicable NFPA, OSHA (PSM), and DOT specifications. The pumps and compressors will be powered by electricity. The interconnecting pipelines will utilize high tensile steel pipe and fittings, coated with TFE when installed below grade.

# Fingerlakes Storage LLC

## Facility Layout



Location Map  
(NOT TO SCALE)

Designed By:



2121 County Rte 10  
Alpine, NY 14805

Designed For:

Fingerlakes Storage LLC  
800 Robinson Road  
Owego, NY 13827

Index	
Sheet Number	Sheet Title
1	Coversheet
2	Plan View-Rail Siding
3	Office Area Plan View
4	Brine Pond Plan View
5	Plant Plan View
6	Location Map

Attached:  
Construction Specifications

**DIG SAFELY**  
**NEW YORK**  
**1-800-962-7962**

**IT'S THE LAW!!!**  
CALL AT LEAST TWO WORKING DAYS  
BEFORE YOU DIG.

SHEET 1 OF 6

Coversheet  
Facility Layout  
Fingerlakes Storage LLC

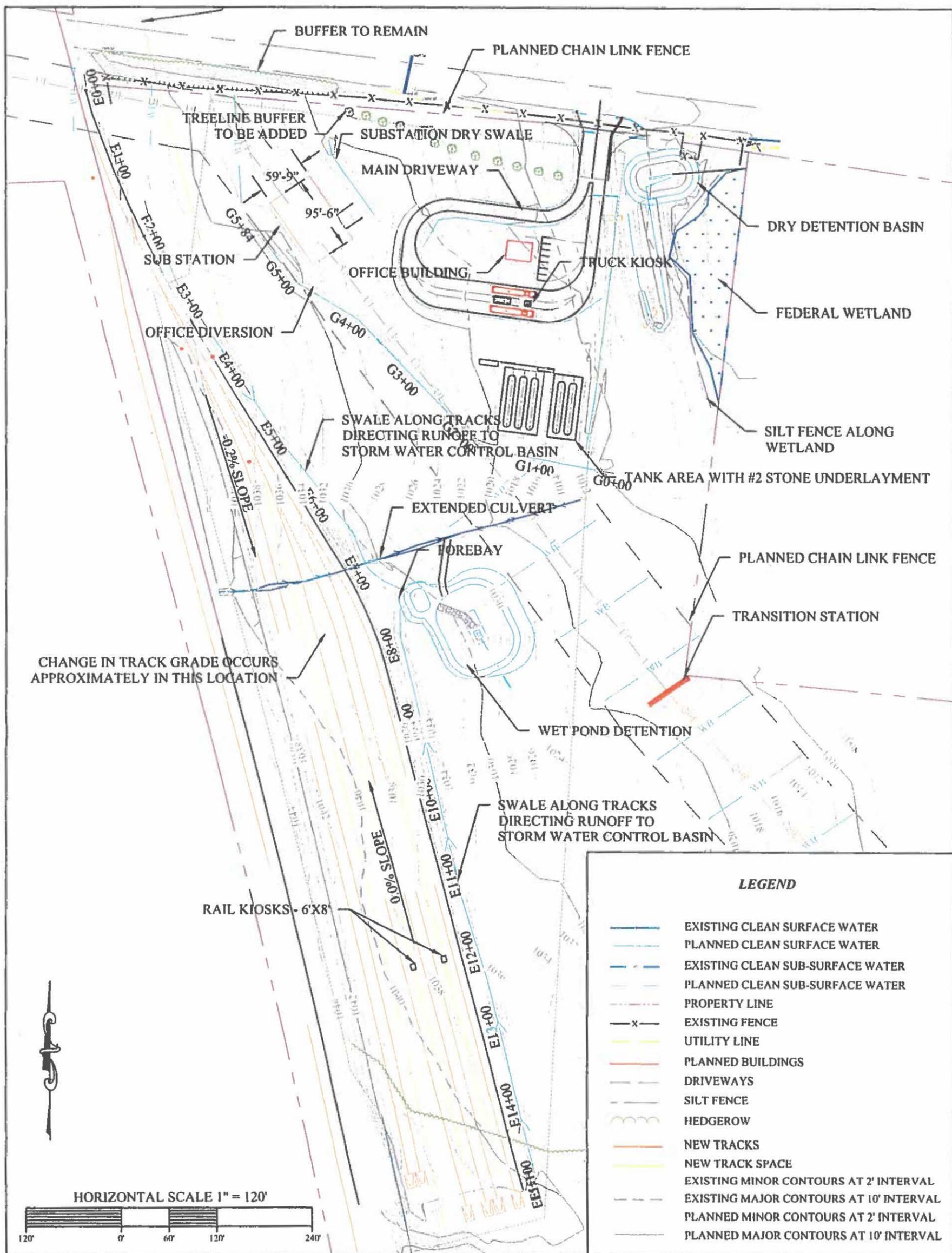
Drawn By: J. Skinner  
Checked By: J. Skinner  
Date: 08/09  
Date: 08/09



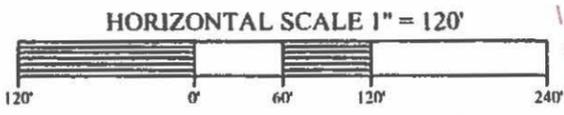
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DRAWING: Site Plan

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Approval:



LEGEND	
	EXISTING CLEAN SURFACE WATER
	PLANNED CLEAN SURFACE WATER
	EXISTING CLEAN SUB-SURFACE WATER
	PLANNED CLEAN SUB-SURFACE WATER
	PROPERTY LINE
	EXISTING FENCE
	UTILITY LINE
	PLANNED BUILDINGS
	DRIVEWAYS
	SILT FENCE
	HEDGEROW
	NEW TRACKS
	NEW TRACK SPACE
	EXISTING MINOR CONTOURS AT 2' INTERVAL
	EXISTING MAJOR CONTOURS AT 10' INTERVAL
	PLANNED MINOR CONTOURS AT 2' INTERVAL
	PLANNED MAJOR CONTOURS AT 10' INTERVAL

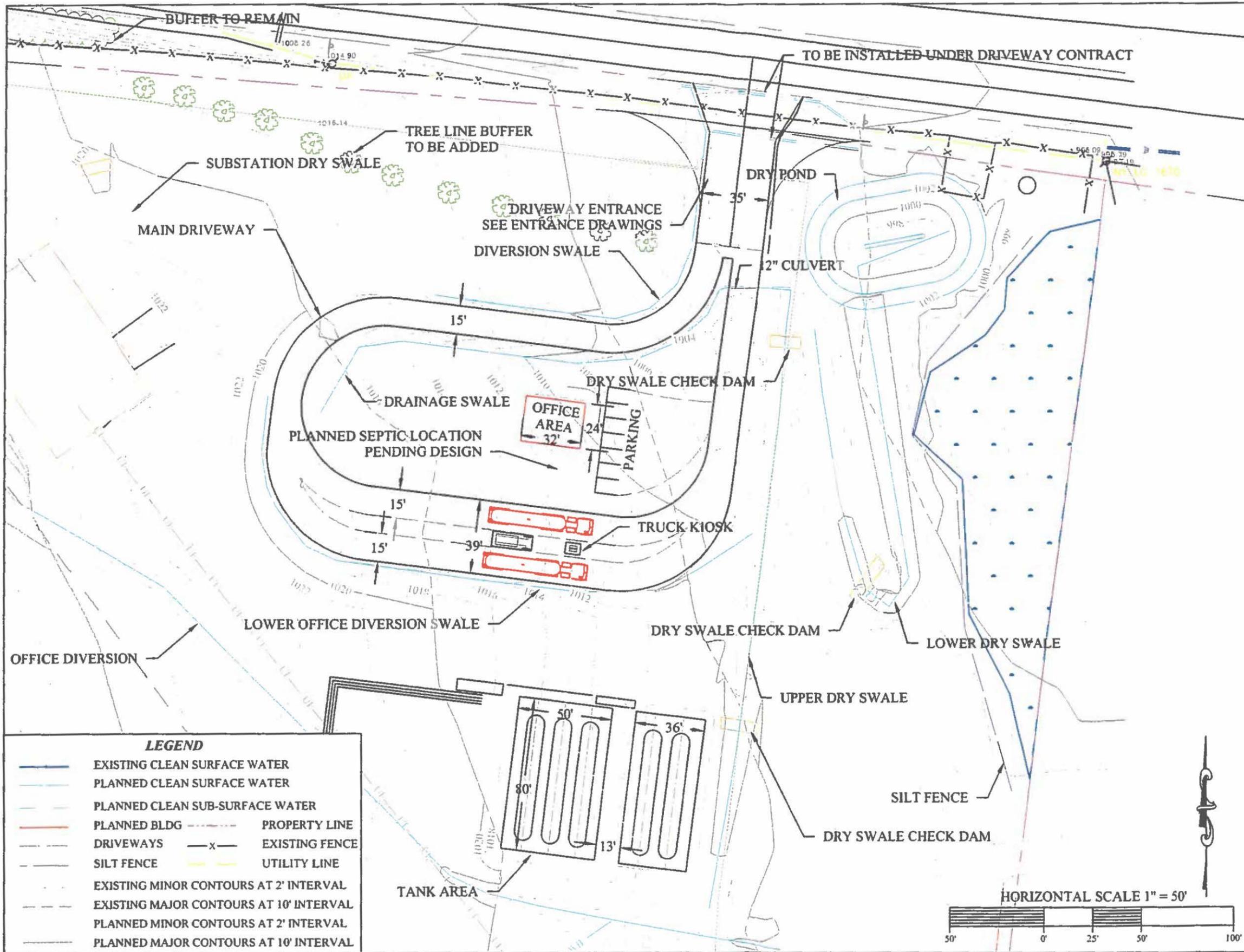


Approval:

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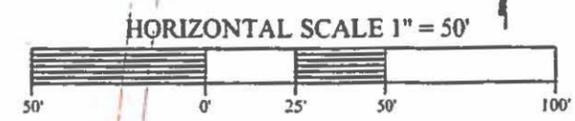
 JES Environmental Systems Engineering, PLLC 2121 County Rte 10, Alpina, NY 13805 Phone: France - 515-314-8117 Fax: 515-466-0418 Fax: 607-594-6726	Drawn By: J. Skinner	Date: 08/09	Plan View-Rail Siding Facility Layout Fingerlakes Storage LLC	SHEET 2 OF 6
	Checked By: J. Skinner	Date: 08/09		
DRAWING: Site Plan.dwg		DRAWING PATH: K:\Civil 3D 2008\Superior Energy		





**LEGEND**

	EXISTING CLEAN SURFACE WATER		PROPERTY LINE
	PLANNED CLEAN SURFACE WATER		EXISTING FENCE
	PLANNED CLEAN SUB-SURFACE WATER		UTILITY LINE
	PLANNED BLDG		EXISTING MAJOR CONTOURS AT 10' INTERVAL
	DRIVEWAYS		PLANNED MAJOR CONTOURS AT 10' INTERVAL
	SILT FENCE		
	EXISTING MINOR CONTOURS AT 2' INTERVAL		
	EXISTING MAJOR CONTOURS AT 10' INTERVAL		
	PLANNED MINOR CONTOURS AT 2' INTERVAL		
	PLANNED MAJOR CONTOURS AT 10' INTERVAL		



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SHEET 3 OF 6

Office Area Plan View  
Facility Layout  
Fingertakes Storage LLC

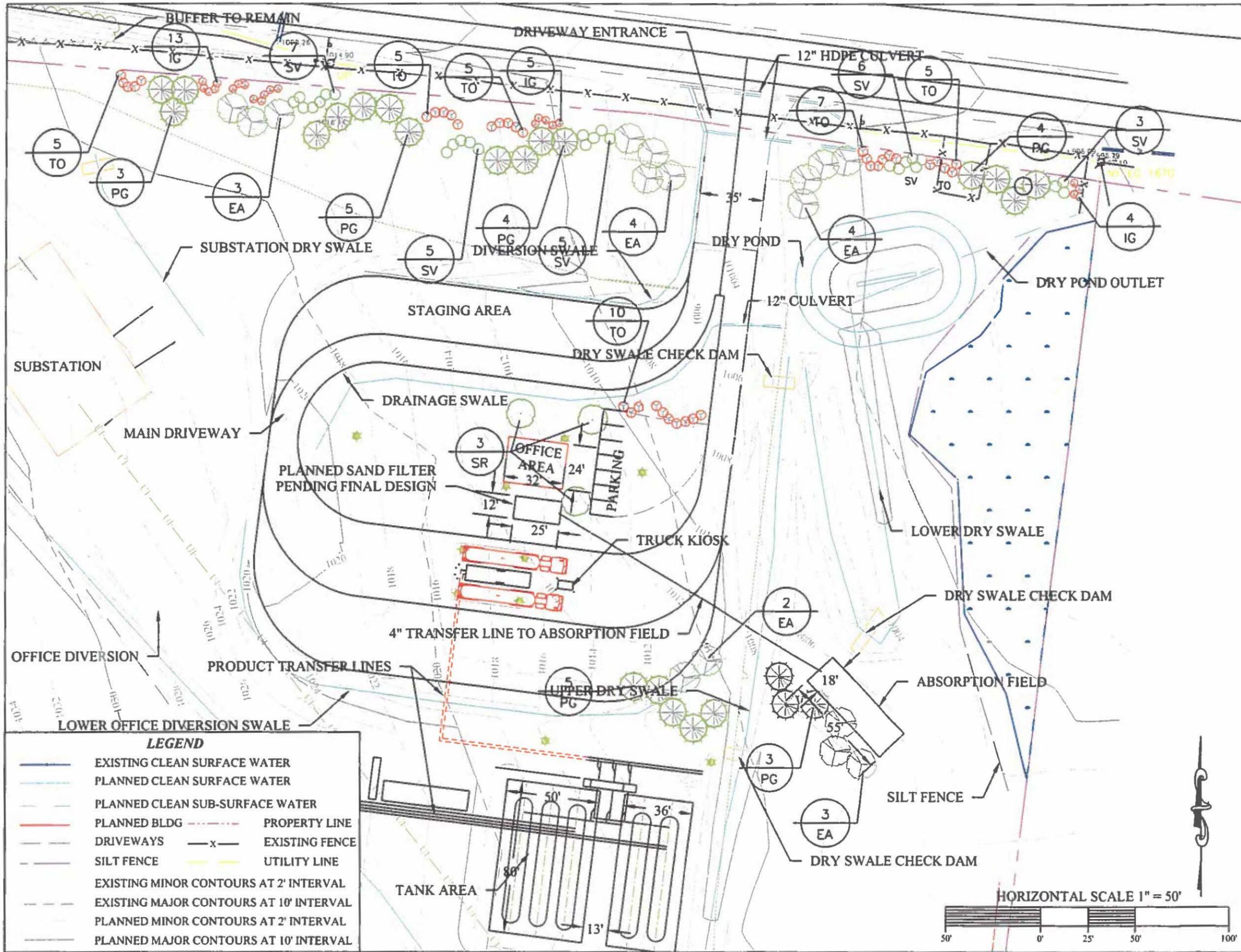
Drawn By: J. Skinner	Date: 08/09
Checked By: J. Skinner	Date: 08/09

DRAWING PATH: K:\Civil 3D 2008\Superior Energy

**JESS** Environmental Engineering, PLLC  
 3171 Cherry Hill Rd., Apt. 204, NY, NY 10007  
 Phone: (212) 224-1111 Fax: (212) 224-1111  
 E-mail: jess@jessenv.com

DRAWING: Site Plan.dwg

Approval:



Revision 1 - 092509  
 Revision 2 - 092809  
 Revision 3 - 092909  
 Revision 4 - 093009

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SHEET 3 OF 6

Office Area Plan View  
 Facility Layout  
 Fingerlakes Storage LLC

Drawn By: J. Skinner  
 Checked By: J. Skinner

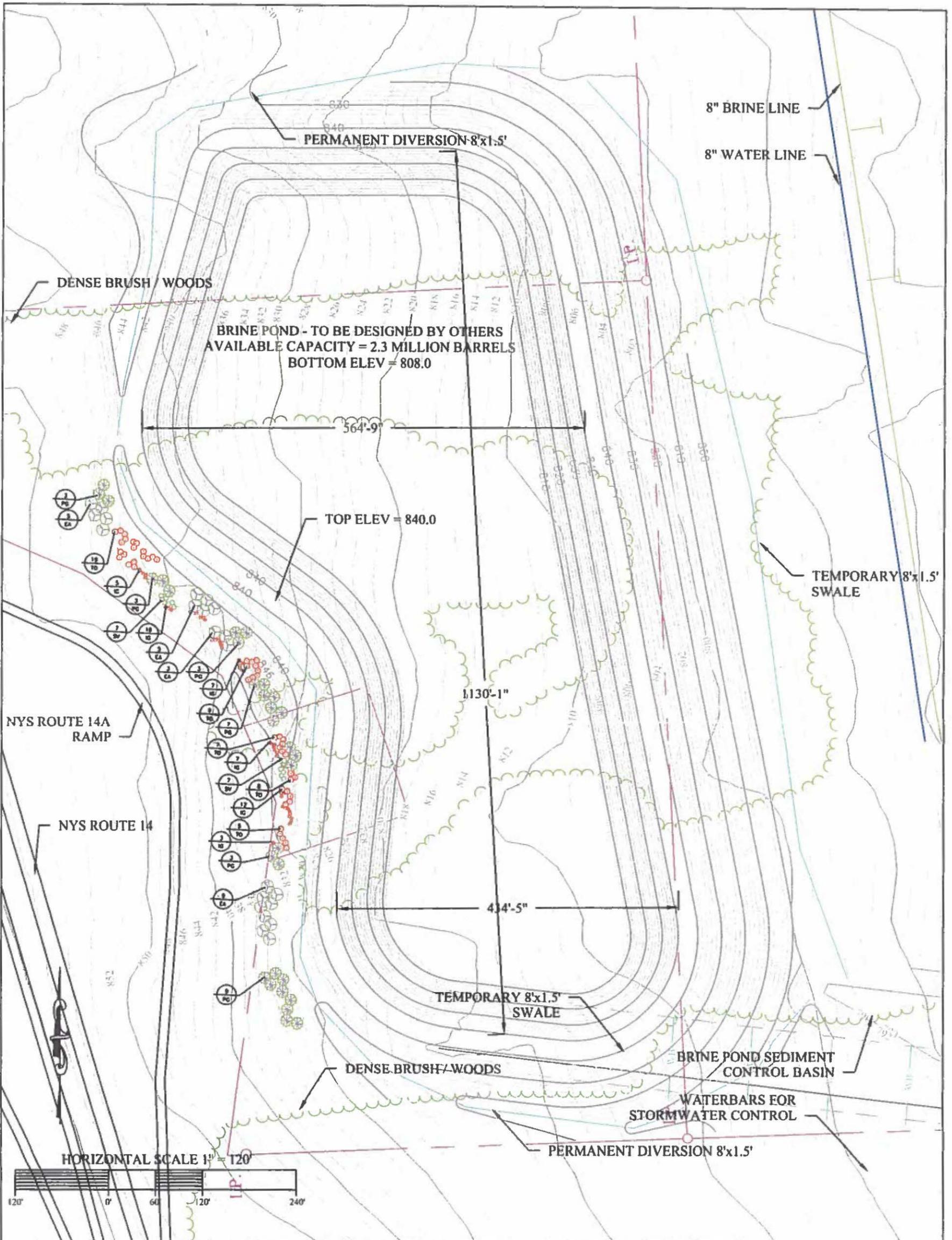
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**JSS**  
 Engineering, PLLC  
 7671 County Rd 10, Aledo, NY 14803  
 Phone: 607-451-1437 Fax: 607-451-1439

DRAWING: Site Plan for stakeout.dwg

Approval:



Approval:

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Revision 1 - 092909  
Revision 2 - 093009

*casco & skinner*  
**JES**  
*environmental systems*  
**Engineering, PLLC**  
3111 County Rd 14, Alpine, NY 11905  
Phone: 516-314-8517 Fax: 516-314-8518

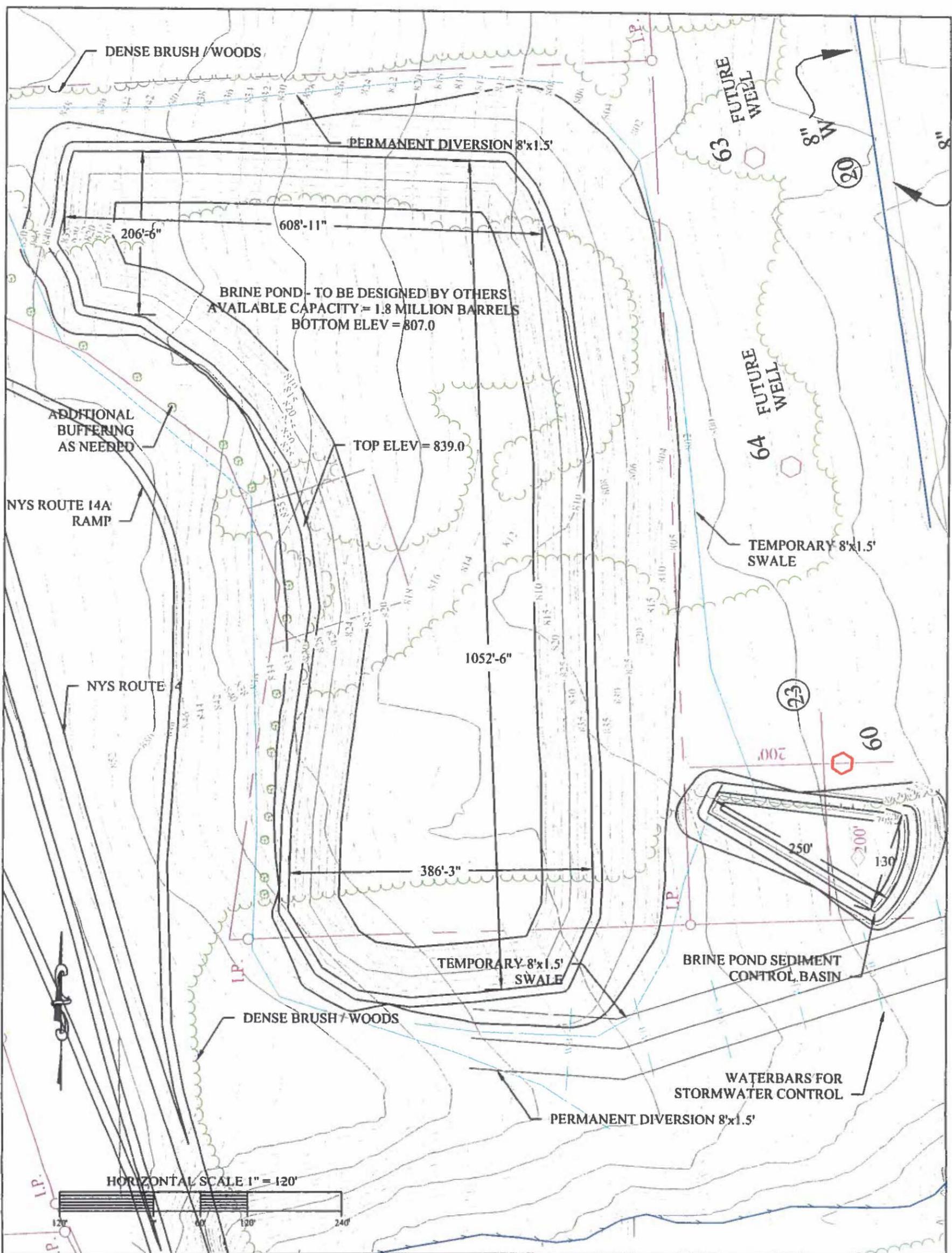
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J. Skinner  
Date:  
08/09  
Checked By:  
J. Skinner  
Date:  
08/09

Brine Pond Plan View  
Facility Layout  
Fingerlakes Storage LLC

SHEET 4 OF 6

DRAWING: Site Plan for stakout.dwg

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Approval:

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*essie & ason*  
**JES**  
Environmental Systems  
Engineering, PLLC

3121 County Rte 10, Aquino, NY 14813  
Phone: 607-334-8317 Fax: 607-334-7338

Drawn By:  
J. Skinner

Date:  
08/09

Checked By:  
J. Skinner

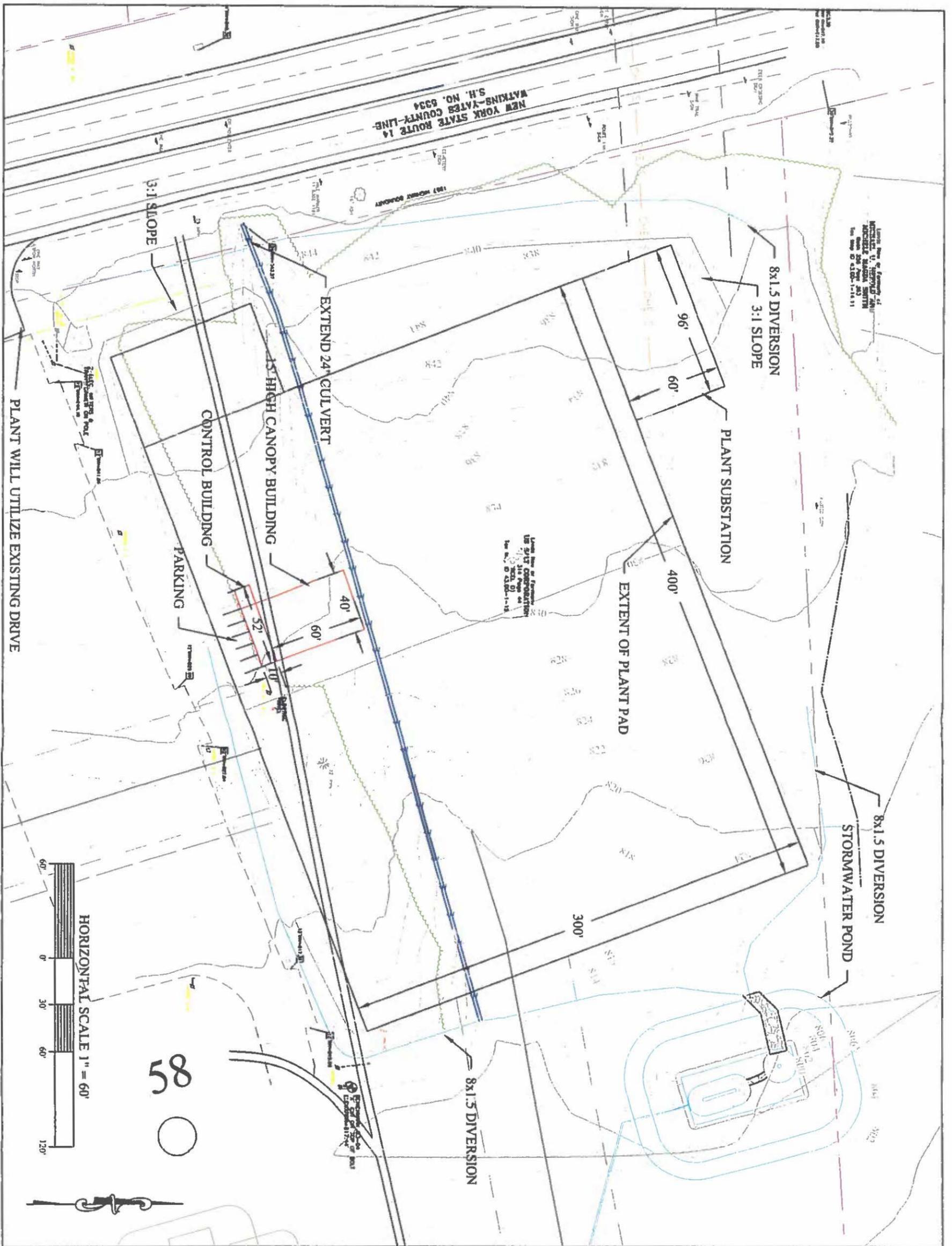
Date:  
08/09

Brine Pond Plan View  
Facility Layout  
Fingerlakes Storage LLC

SHEET 4 OF 6

DRAWING: Site Plan.dwg

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Approval:

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*JESS*  
*Environmental Systems Engineering, PLLC*  
 3121 County Rte 10, Alpina, NY 13803  
 Phone: Jamaica - 585-314-8317 Ithaca - 585-249-0438 Fax: 607-944-4726

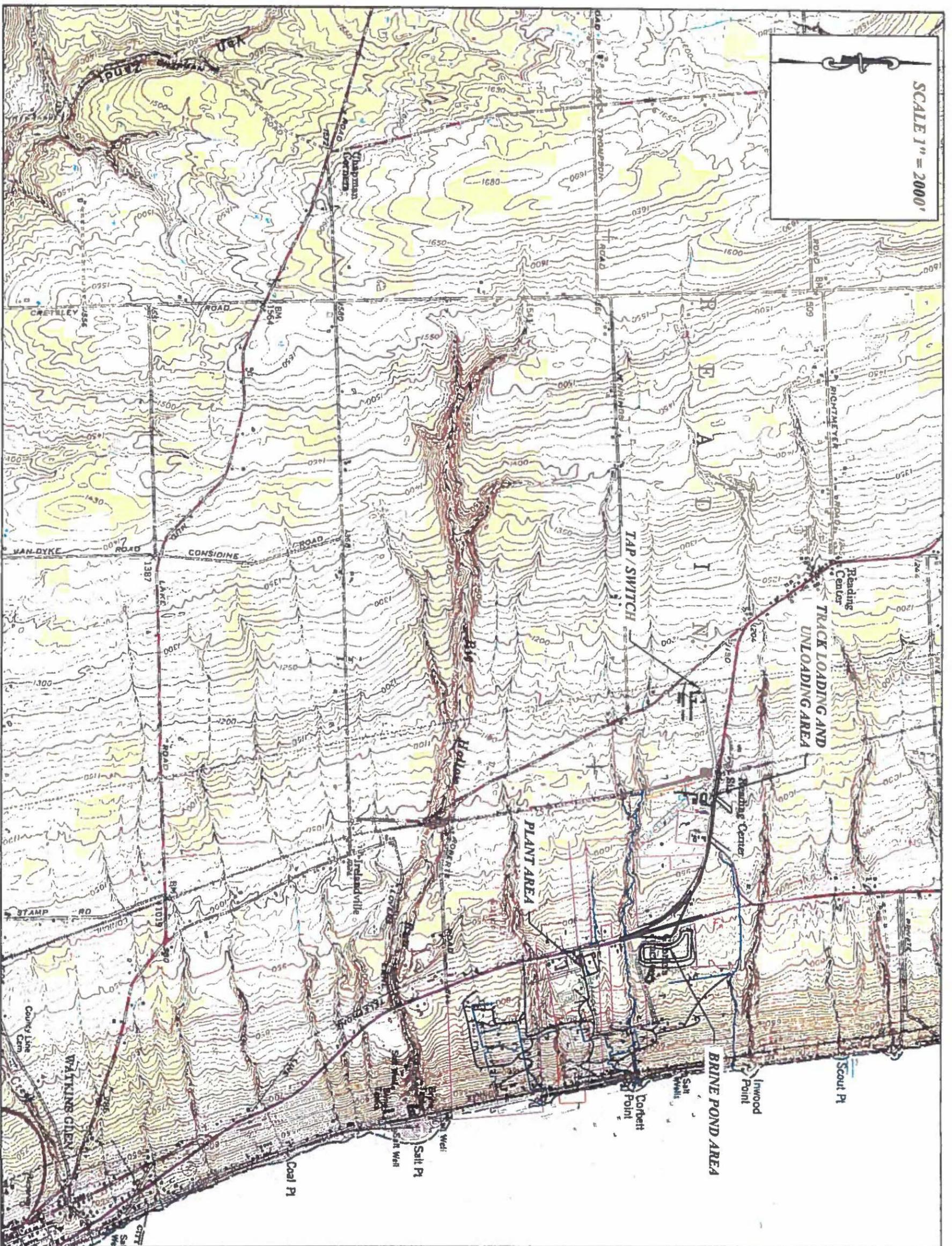
Drawn By: J. Skinner	Date: 08/09
Checked By: J. Skinner	Date: 08/09

Plant Plan View  
 Facility Layout  
 Fingerlakes Storage LLC

SHEET 5 OF 6

DRAWING: Site Plan.dwg

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Approval:

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*easton & ason* *binner*  
**JESSE**  
*environmental systems*  
**Engineering, PLLC**  
 2121 County Rd 10, Alton, NY 14803  
 Phone: 585-214-8317 Fax: 585-406-0139 E-mail: 607-394-6726

Drawn By:  
J. Skinner

Date:  
08/09

Checked By:  
J. Skinner

Date:  
08/09

Location Map  
 Facility Layout  
 Fingerlakes Storage LLC

SHEET 6 OF 6

DRAWING: Site Plan.dwg

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- LEGEND**
- EXISTING CLEAN SURFACE WATER
  - PLANNED CLEAN SURFACE WATER
  - EXISTING CLEAN SUB-SURFACE WATER
  - PLANNED CLEAN SUB-SURFACE WATER
  - PROPERTY LINE
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  - NEW TRACKS
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  - EXISTING MAJOR CONTOURS AT 10' INTERVAL
  - PLANNED JUNIOR CONTOURS AT 2' INTERVAL
  - PLANNED MAJOR CONTOURS AT 10' INTERVAL



**PROPERTY LINES SHOWN ARE APPROXIMATE - DRAWING NOT PREPARED BY A LICENSED SURVEYOR**

In a violation of the law for any person under the direction of a licensed professional seal and signature to sign this drawing is any way. All persons who have the seal and signature in a violation of the above, the signature and law.

	Drawn By J. Sainor	Date 08/19/19	Overview Finger Lakes LPG Storage, LLC
	Checked By J. Sainor	Date 08/19/19	Town of Redden, NY
DRAWING: DRAWINGNAME	DRAWING: PATH		

**BUILDING GENERAL NOTES**

**Building**

The (1) steel building is to be supplied and installed by Contractor. The building is to be built and erected in accordance with applicable ASCE Codes and ASCE ACI, ISM 22-1 and all State/Local government regulations and permitting processes.

Roofing Material Gauge: 24  
Siding Material Gauge: 26

Exterior Colors: To be determined later.

Paint shall be baked-on enamel if galvanized steel is used.

Doors required: Number to be determined by Contractor; exterior doors shall be steel complete with 1/2 in. grid wire reinforced windows, outward swinging with clear, fire-rated padlock and lock hardware.

All windows (not in doors) shall be the horizontal sliding type and the number required shall be determined by Contractor.

**Interior Finish - Storage/Control Building**

- (a) Walls: Material/Type: 24 gauge galvanized steel or equal, pre-painted white, furnished complete with base molding and trim, also painted.
- (b) Ceiling: Material/Type: 24 ga. galvanized steel, factory pre-painted.
- (c) Floors: 1 foot square floor tile or equal.
- (d) Insulation: Walls - 3 in. unfaced fiberglass  
Roof - 3 in. steel faced fiberglass

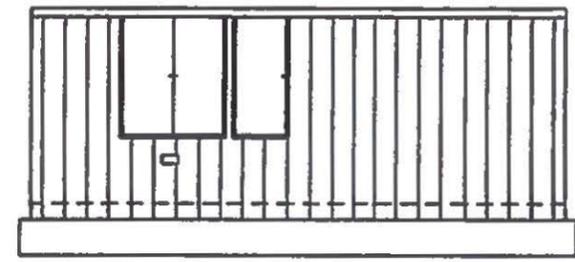
**Electrical**

- (a) Ceiling lights - type shall be fluorescent.
- (b) Wall outlets - Contractor shall install sufficient 220V outlets to match number of heating/AC units or more if required.  
  
Contractor shall install sufficient 120V outlets for instrumentation, etc. as required, plus one extra duplex outlet per room.
- (c) Company to specify telephone requirements.

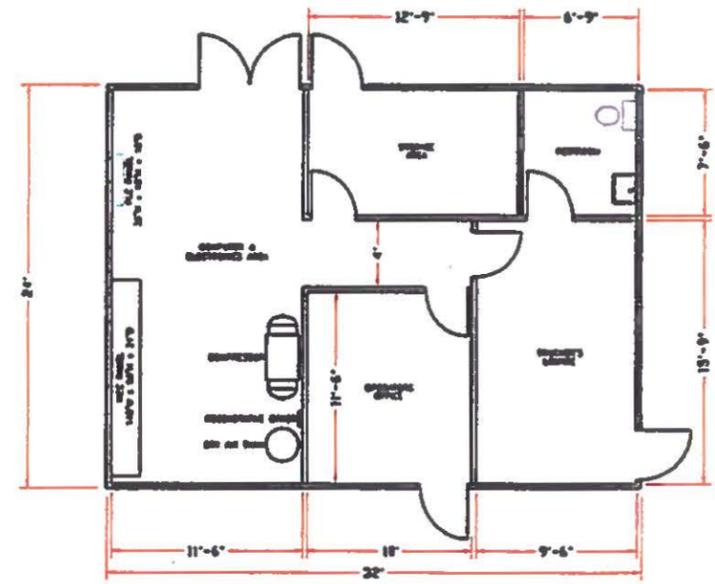
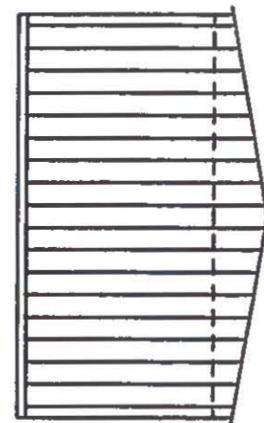
**HVAC**

Heating/AC - Contractor shall adequately size combustion heating/AC units to comfortably heat and cool the various rooms during the most severe ambient temperature conditions. Combustion shall be gas for the first gas off by various equipment, such as computers, etc. when using HVAC equipment.

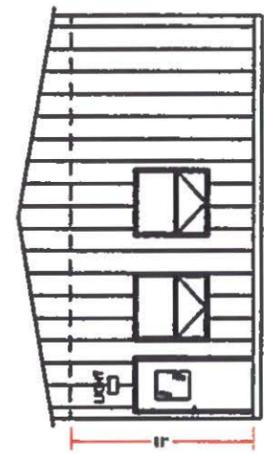
**WEST ELEVATION**



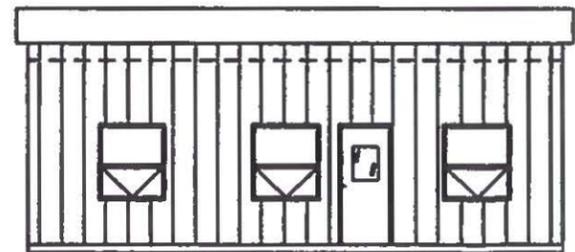
**WEST ELEVATION**



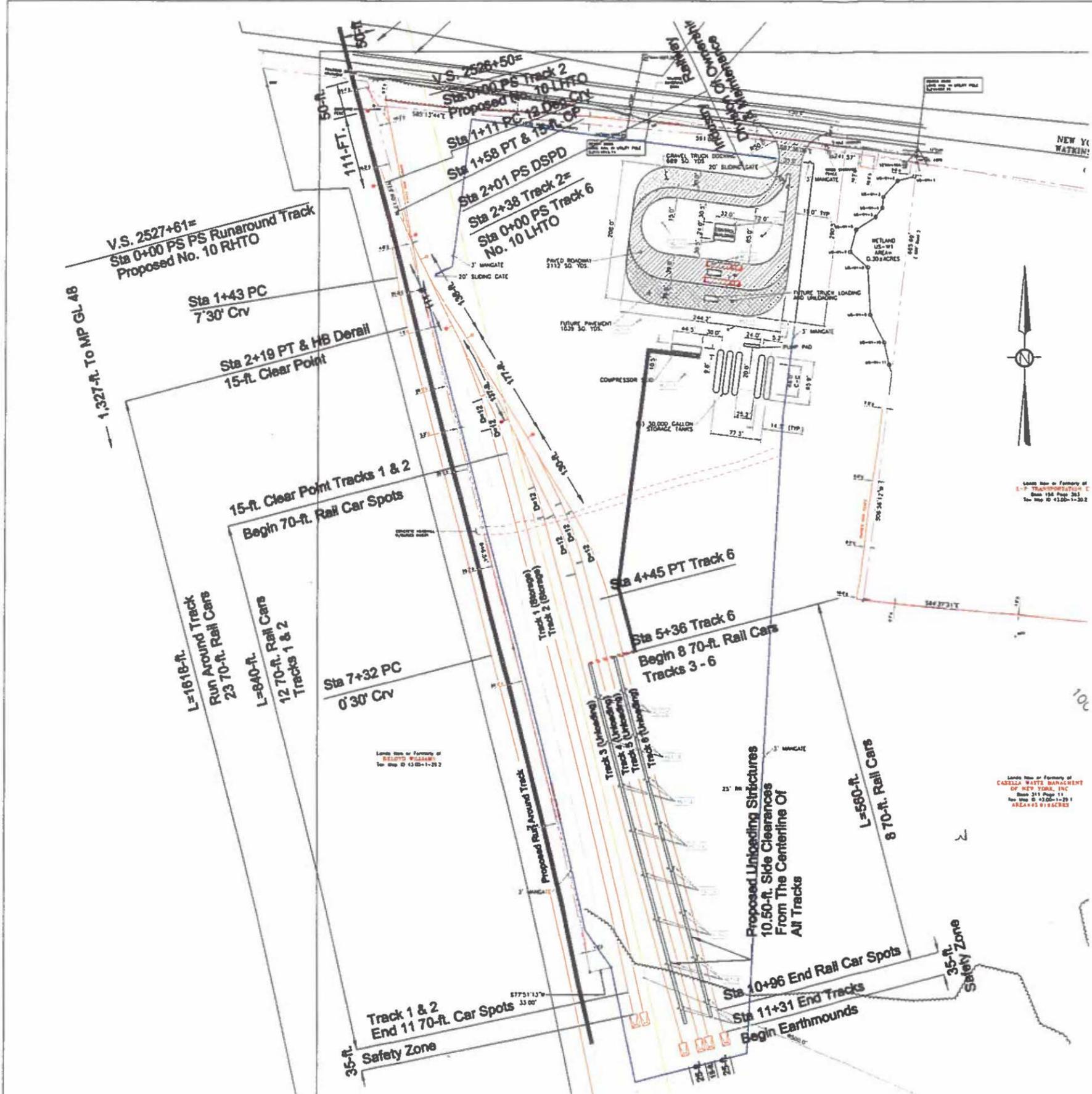
**EAST ELEVATION**



**SOUTH ELEVATION**



				<b>SUPERIOR ENERGY SYSTEMS LTD.</b>	
		1200 North Station Pl., Columbia Station (Columbus), Ohio 43227 USA		Tel: 614-891-1111 Fax: 614-891-1112	
		800-850-8500 (toll free)		www.superior-energy.com	
		PROJECT: ENERGY STORAGE FACILITY		DATE: 6/15/09	
		OPERATION/CONTROL BUILDING		DRAWING NO: 9030-14.1	
		REVISION: 1/15/09		SCALE: 1/4"=1'	
		DATE: 6/15/09		SHEET: 1 OF 1	
				D B	



										 <b>SUPERIOR ENERGY SYSTEMS LTD.</b> 13560 North Station Rd., Columbia Station (Cleveland), Ohio 44028 USA <small>THE INFORMATION AND DATA CONTAINED HEREIN ARE PROPRIETARY TO SUPERIOR ENERGY SYSTEMS LTD. AND ARE NOT TO BE DISCLOSED TO OTHERS IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF SUPERIOR ENERGY SYSTEMS LTD.</small>	
										INERGY WATKINS GLEN, NY SCALE: 1" = 75' APPROVED BY: HLK	
										PROPANE/BUTANE STORAGE FACILITY FENCE AND LIGHTING PLOT PLAN	
A INITIAL RELEASE		8/28/00		CAW						DATE: 6/12/09 NO. 9030-03.5 D A	



## *Finger Lakes LPG Storage, LLC*

### *Landscaping Outline*

The purpose of this outline is to provide a general description of what the landscaping plan will be in all three of the main project areas proposed by Finger Lakes LPG Storage, LLC. Within this landscaping outline, we will explain how our plans will minimize the visual impact of our project.

#### Area 1 – Rail Siding and Office Area:

The Rail Siding and Office Area will be installed on the Finger Lakes LPG Storage property with road frontage on Route 14A. The driveway into the property will be located in an area where minimal grading will be required; this driveway will lead back to the facility, which will be located 100' off of the road. This setback will allow us to leave the existing natural buffer on the west side of the facility as shown in the landscape plan view. In addition, we will add a double row of intermixed red oak and silver maple extending from the eastern edge of the natural buffer to the edge of the driveway. An additional double row will be installed to the northeast of the storage tanks. The trees will be purchased from RPM Ecosystems, LLC. Trees from RPM Ecosystems have undergone a patented root production process; this process enables the tree to grow at a greatly increased rate while also improving survivability. The trees will be approximately 5' at the time of planting, but should be up to 20' tall in less than 5 years.

#### Area 2 – Plant Area:

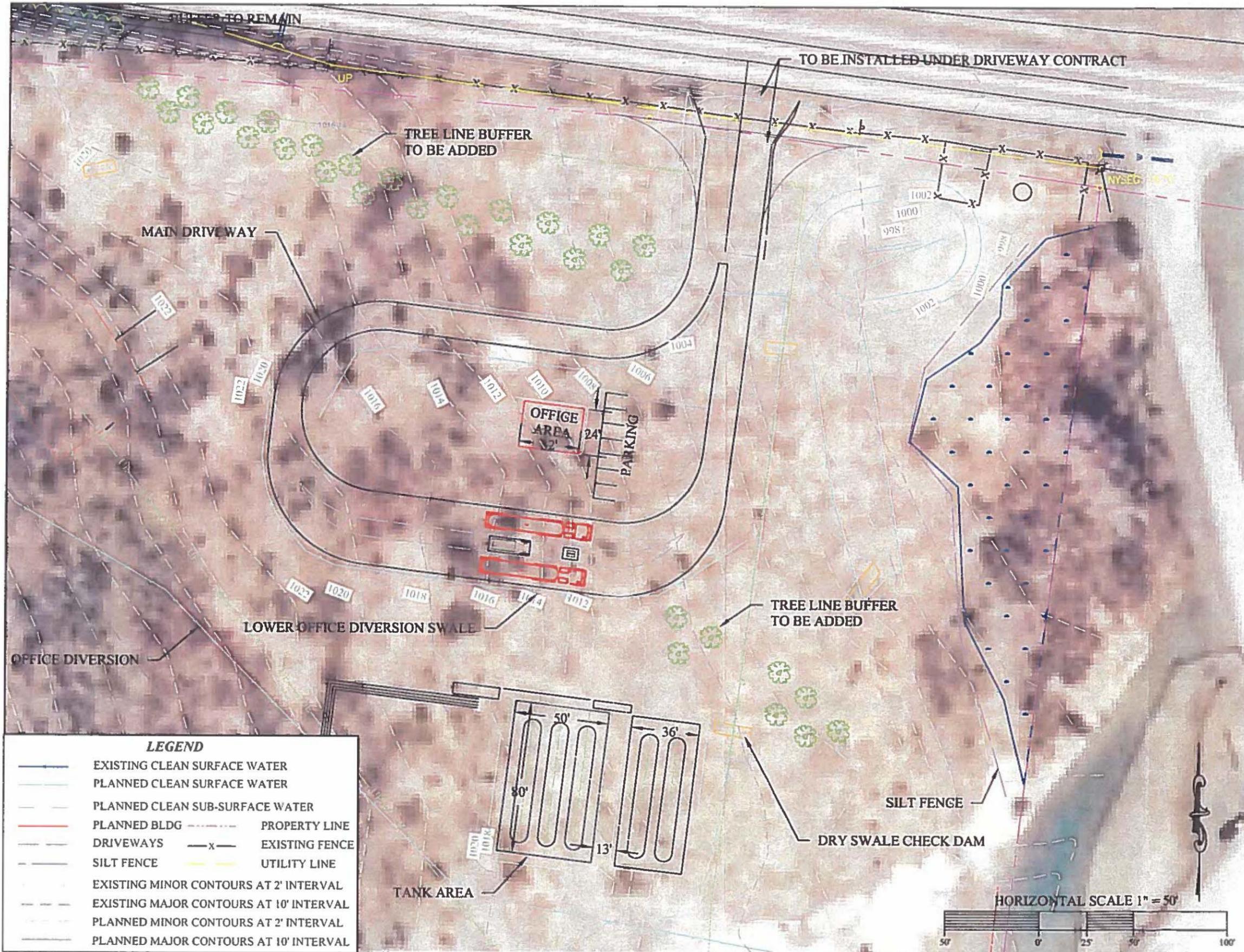
The Plant Area will be located near the existing curb cut off of route 14. The area will be constructed behind the existing buffer that exists in this area. There will be no need for additional buffering in this area.

#### Area 3 – Brine Pond Area:

The Brine Pond Area has been relocated to reduce the visual impact on both Routes 14 and 14A. The brine pond will be located adjacent to the Route 14A ramp. The property currently has some areas of dense brush and woods as shown on the plan view. These areas will be left intact where ever possible. In addition, a double row of intermixed red oak and silver maple will be planted following construction. These trees will also be purchased from RPM to ensure a visual screen is established as quickly as possible.

In addition to screening the site, the brine pond shape has been modified to more closely resemble a naturally occurring water body (as suggested by a member of the Planning Board at the August 20 pre-application meeting). The shape will be slightly irregular as shown to blend more readily with the natural surroundings.

In the development of our overall project plans we have attempted to make every effort to ensure that our project is as well screened as possible, while attempting to blend our screening materials with natural occurring elements in the Finger Lakes region. Our goal is to minimize any impact the route 14/14A view shed.



It is a violation of the law for any person unless he is acting under the direction of a licensed professional architect/engineer to alter this drawing in any way. Alterations must have the seal affixed along with a description of the alteration, the signature and date.

Approval:

SHEET 3 OF 6	
Office Area Plan View	Date: 08/09
Facility Layout	Date: 08/09
Fingerlakes Storage LLC	Drawn By: J. Skinner
	Checked By: J. Skinner
	DRAWING PATH: K:\Civil 3D 2008\Superior Energy
 <p><b>JESS Engineering, PLLC</b>          3511 County Rd. 10, Afton, NY 14805          Phone: 716-335-3143 Fax: 716-335-3144</p>	
DRAWING: Site Plan.dwg	



Approval:

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*JES*  
 Jessica & Jason  
 Environmental Systems  
 Engineering, PLLC  
 1121 Cherry Rd. 10, Alton, NY 14803  
 Phone: Jessica - 585-314-8317 Jason - 585-349-0610 Fax: 585-394-6726

Drawn By:  
J. Skinner

Date:  
08/09

Checked By:  
J. Skinner

Date:  
08/09

Plant Area Landscaping  
Facility Layout  
Fingerlakes Storage LLC

SHEET 1 OF 1

DRAWING: Site Plan.dwg

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Approval:

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*carica & skinner*  
**JES**  
 environmental systems  
**Engineering, PLLC**  
 2121 Conroy Rd 10, Algonk, NY 14805  
 Phone: 585-314-8517 Fax: 585-460-0352 Email: jskinner@jesny.com

Drawn By:  
J. Skinner

Date:  
09/09

Checked By:  
J. Skinner

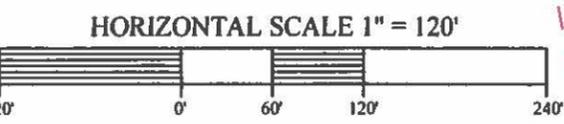
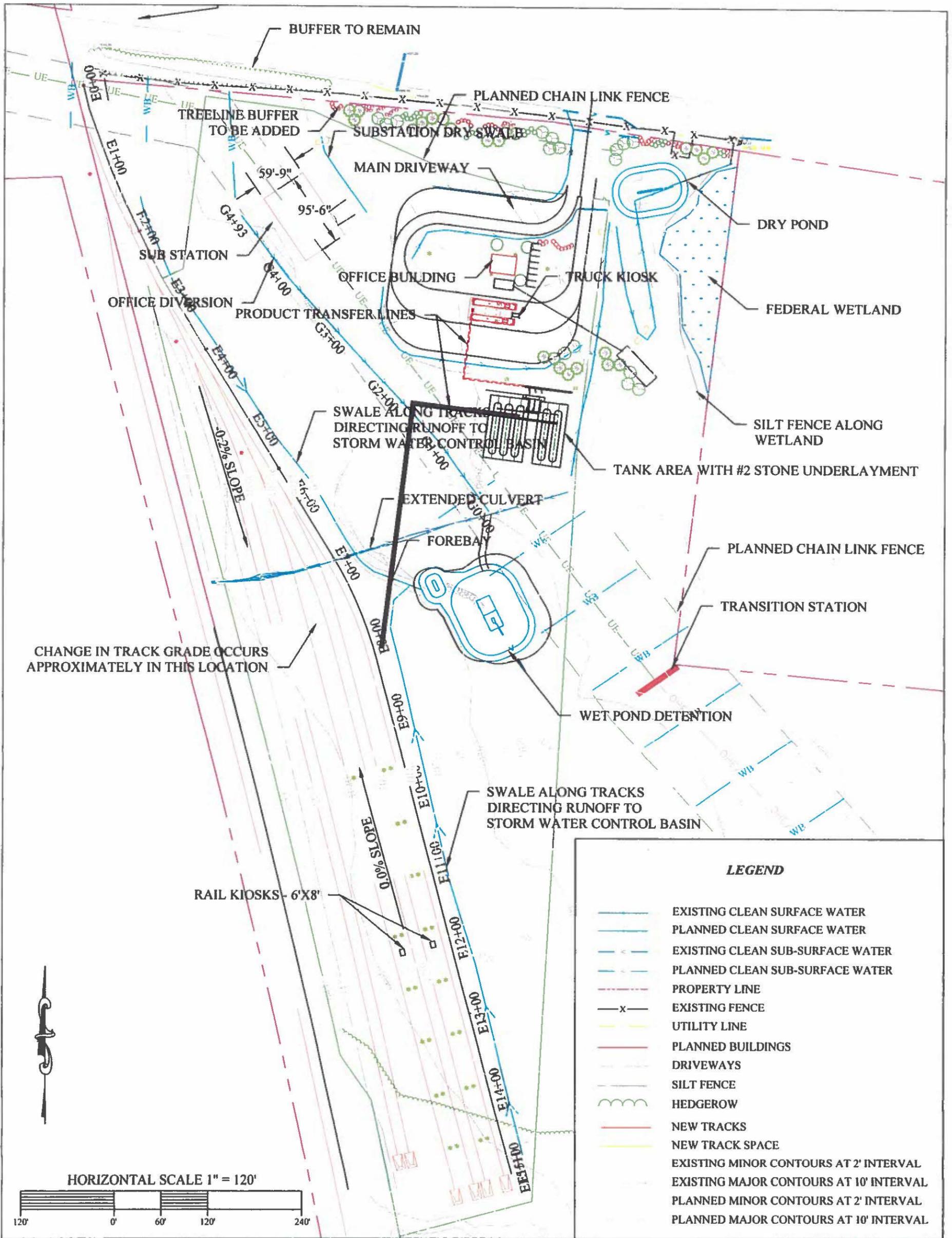
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09/09

Brine Pond Landscaping  
 Facility Layout  
 Fingerlakes Storage LLC

SHEET 1 OF 1

DRAWING: Site Plan.dwg

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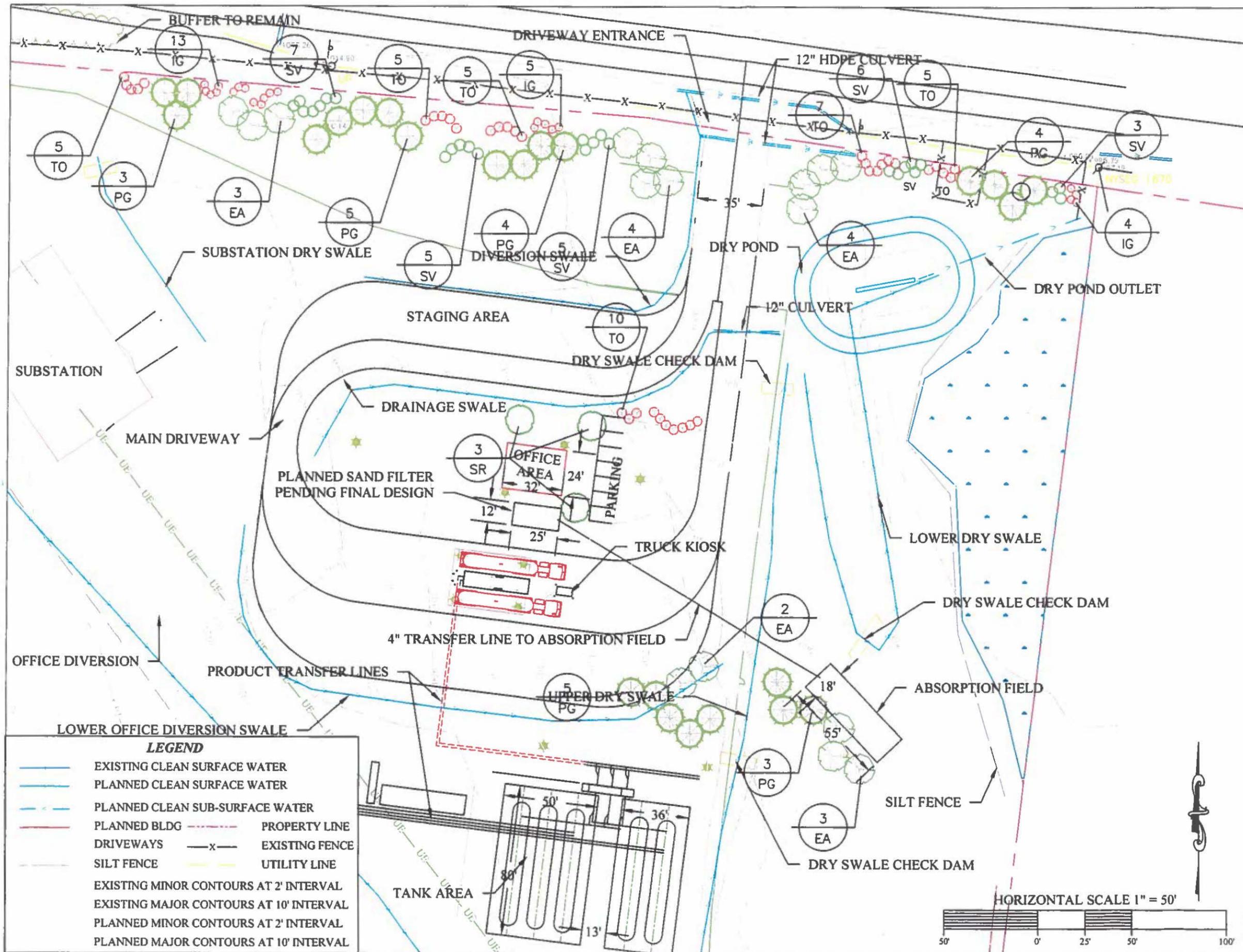


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Revision 1 - 092509  
 Revision 2 - 092909  
 Revision 3 - 093009

<p>JESS Environmental Systems Engineering, PLLC          2111 Conroy Ave 10, Alpina, NY 14805          Phone: Jessica - 585-314-8317 Jason - 585-469-0438 Fax: 607-394-6726</p>	Drawn By: J. Skinner	Date: 08/09	Plan View-Rail Siding Facility Layout Fingerlakes Storage LLC	SHEET 2 OF 6
	Checked By: J. Skinner	Date: 08/09		
DRAWING: Site Plan for stakeout.dwg		DRAWING PATH: K:\Civil 3D 2008\Suppenor Energy		



Revision 1 - 092509  
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SHEET 3 OF 6

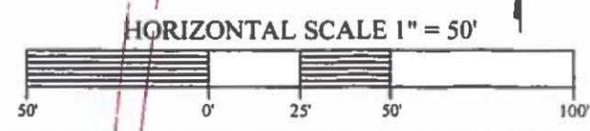
Office Area Plan View  
 Facility Layout  
 Fingerlakes Storage LLC

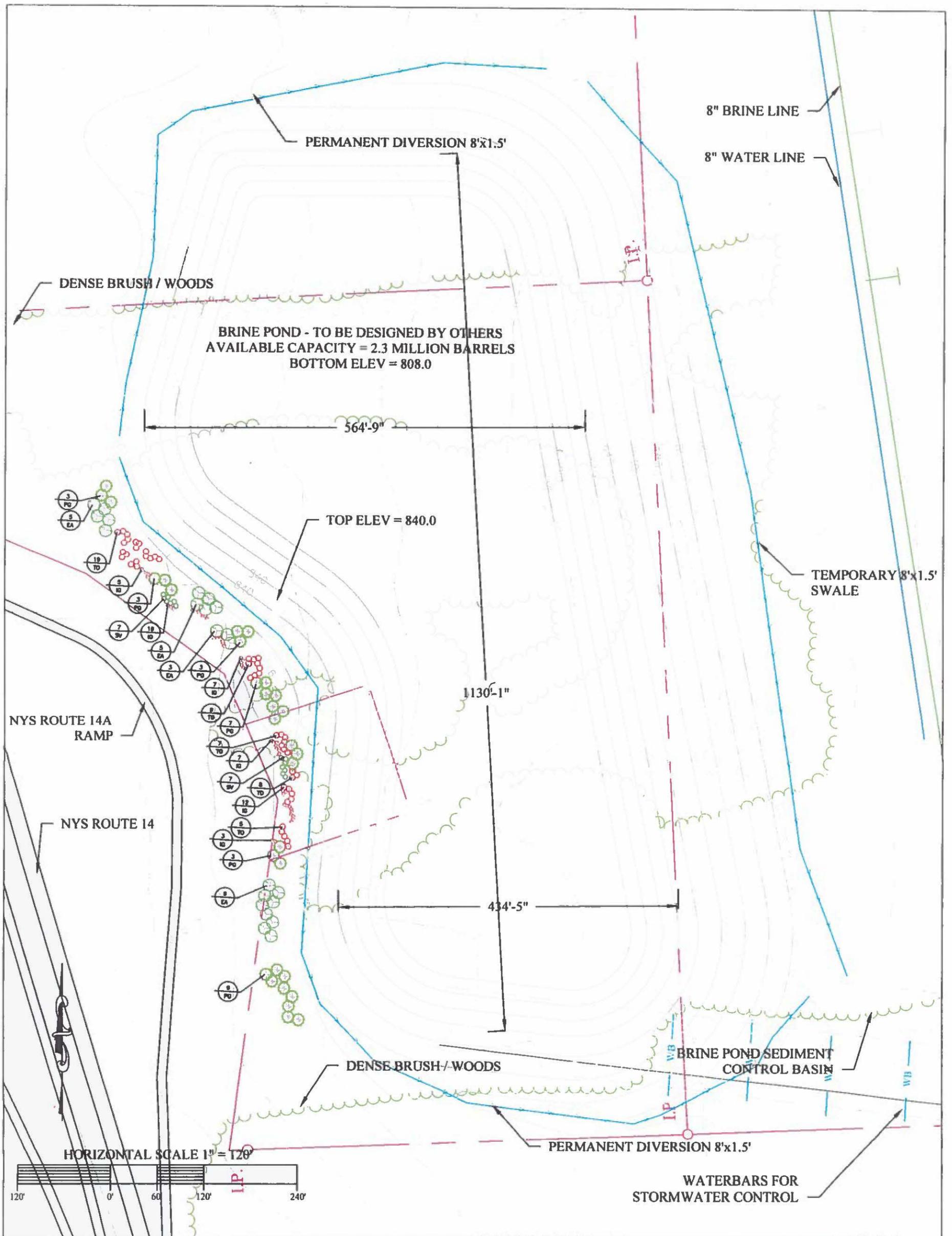
Drawn By: J. Skinner	Date: 08/09
Checked By: J. Skinner	Date: 08/09

**JESS**  
 Environmental Systems  
 Engineering, PLLC  
 211 County Rd 10, Albany, NY 12205  
 Phone: 518-431-1700 Fax: 518-431-1706

Approval: \_\_\_\_\_

DRAWING PATH: K:\Civil 3D 2008\Superior Energy  
 DRAWING: Site Plan for stakeout.dwg





Approval:

It is a violation of the law for any person unless he is acting under the direction of a licensed professional architect/engineer to alter this drawing in any way. Alterations must have the seal affixed along with a description of the alteration, the signature and date.

Revision 1 - 092909  
Revision 2 - 093009

	Drawn By: J. Skinner	Date: 08/09	Brine Pond Plan View Facility Layout Fingerlakes Storage LLC	SHEET 4 OF 6
	Checked By: J. Skinner	Date: 08/09		
DRAWING: Site Plan for stakeout.dwg		DRAWING PATH: K:\Civil 3D 2008\Superior Energy		





# Finger Lake Storage

## Survey & Engineering Services

Presented by:

C.T. Male Associates, P.C.

October 1, 2009

# Presentation Overview

Frank Palumbo, RLA, Land Development Group Manager

Raymond Liuzzo, PLS, Survey Group Manager

Introduction to C.T. Male

Presentation Summary

Truck Rack Site & Grading Plan

Truck Rack Tree Survey

Truck Rack Site Photo's

Proposed Tree Chart

Proposed Tree Photos

Brine Pond Site & Grading Plan

Brine Pond Tree Survey

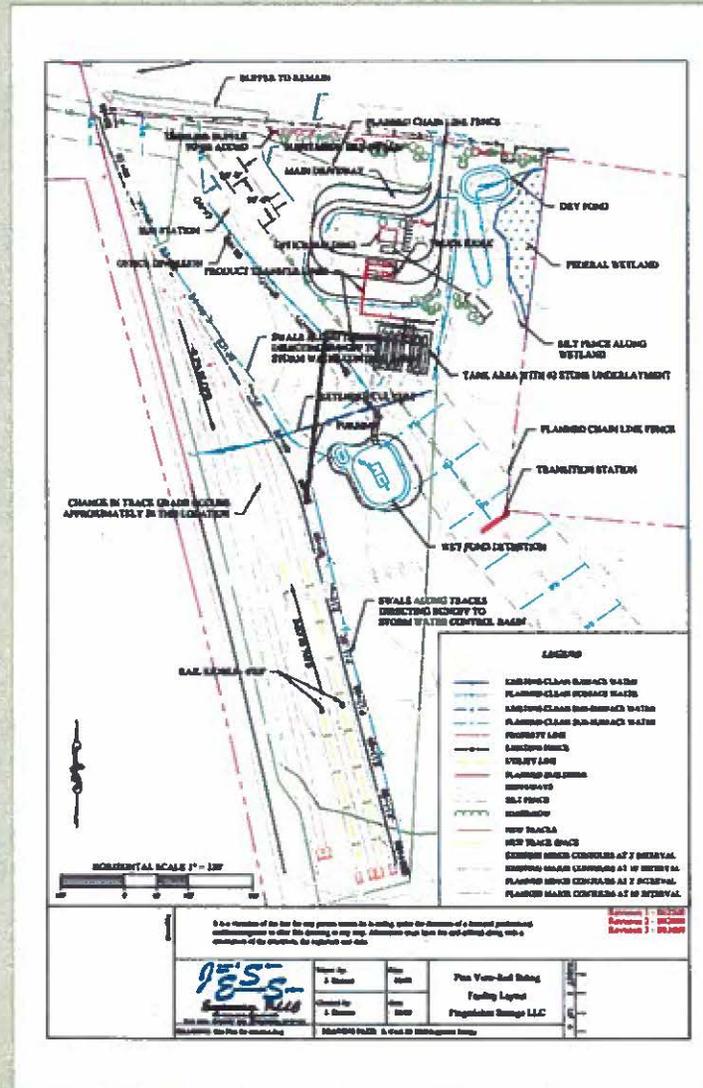
Brine Pond Landscaping Plan's

Brine Pond Site Photo's

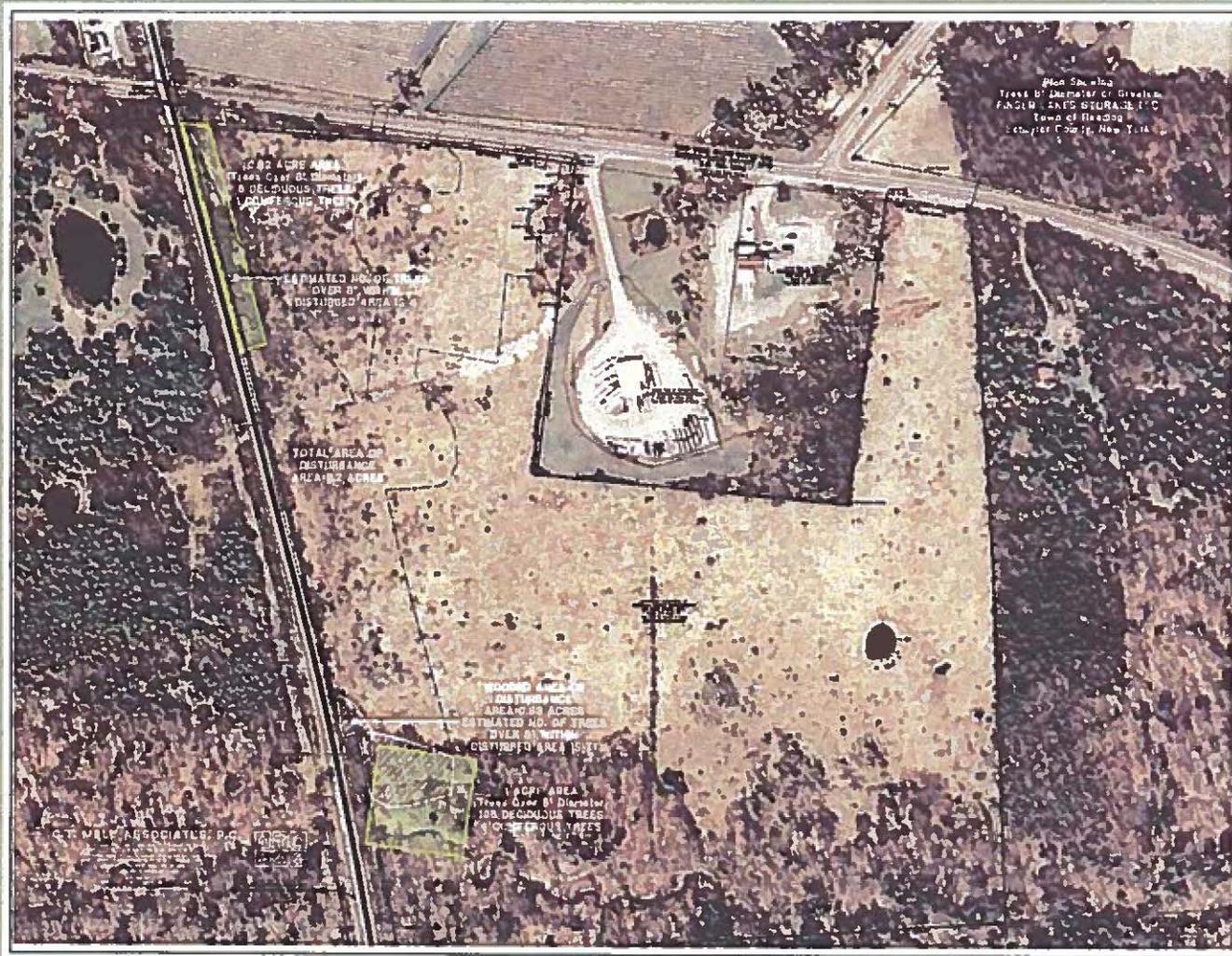
Q&A (Frank Palumbo, RLA, Group Manager Land  
Development)



# Truck Rack Site Plan with Landscaping



# Truck Rack Tree Survey



# Truck Rack Photo Location



# Truck Rack Existing Site



## Truck Rack Building without Landscaping



# Truck Rack Building with Landscaping



# Tree Chart

## PLANTING SCHEDULE

KEY	SYMBOL	BOTANICAL NAME COMMON NAME <small>APPROX. MATURE SIZE</small>	NATIVE PLANT SUBSTITUTIONS	AVAILABLE RPM SUBSTITUTIONS
EVERGREEN				
IG	⊙	ILEX CLABRA 'DENSEA' DENSE INKBERRY <small>8' SPREAD, 6' HT.</small>	RHODODENDRON PERICLYMENOIDES * PINK AZALEA	(NO EVERGREEN SHRUBS AVAILABLE)
PG	⊙	PICEA GLAUCA WHITE SPRUCE <small>15' SPREAD, 60' HT.</small>	PINUS STROBUS * EASTERN WHITE PINE	JUNIPERUS VIRGINIANA EASTERN RED CEDAR
TO	⊙	THUJA OCCIDENTALIS 'NIGRA' DARK AMERICAN ARBORVITAE <small>8' SPREAD, 16' HT.</small>	(NO MEDIUM HEIGHT CONIFERS LISTED)	(NO EVERGREEN SHRUBS AVAILABLE)
TO	⊙	THUJA OCCIDENTALIS AMERICAN ARBORVITAE <small>7' SPREAD, 60' HT.</small>	TSUGA CANADENSIS * CANADIAN HEMLOCK	THUJA OCCIDENTALIS AMERICAN ARBORVITAE
DECIDUOUS				
EA	⊙	ELAEAGNUS ANGUSTIFOLIA RUSSIAN OLIVE <small>16' SPREAD, 20' HT.</small>	AMELANCHIER LAEVIS ALLEGHENY SERVICEBERRY	AMELANCHIER LAEVIS ALLEGHENY SERVICEBERRY
SV	⊙	SYRINGA VULGARIS COMMON LILAC <small>8' SPREAD, 15' HT.</small>	PRUNUS VIRGINIANA * CHOKECHERRY	VIBURNUM TRILOBUM HIGHBUSH CRANBERRY
SR	⊙	SYRINGA RETICULATA JAPANESE TREE LILAC <small>16' SPREAD, 30' HT.</small>	PRUNUS SEROTINA * BLACK CHERRY	PRUNUS SEROTINA * BLACK CHERRY

\* NOT SALT TOLERANT



## Proposed Spruce Tree



## Proposed Arborvitae Tree



## Proposed Lilac Tree



# Proposed Russian Olive Tree



# Brine Pond Grading Plan with Aerial



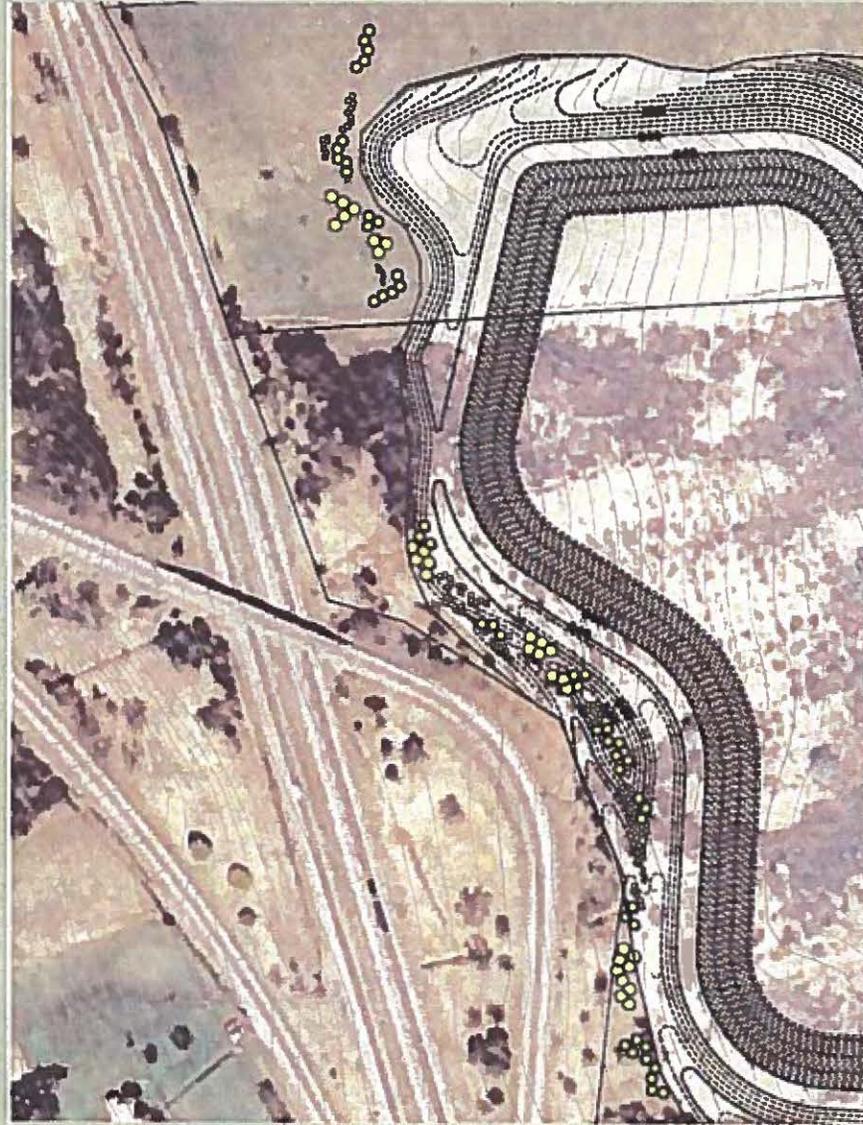
# Brine Pond Tree Survey



# Brine Pond Grading & Landscaping Plan with Aerial



# Brine Pond Landscaping



## Brine Plan Photo Location



# Brine Pond Existing Conditions



# Brine Pond with Proposed Landscaping

















25  
MPH







**New York State Department of Environmental Conservation**  
**Division of Water**  
Bureau of Water Permits, 4th Floor  
625 Broadway, Albany, New York 12233-3505  
Phone: (518) 402-8111 • Fax: (518) 402-9029  
Website: www.dec.state.ny.us



9/10/2009

**FINGERLAKES LPG STORAGE, LLC**  
**MIKE ARMSTRONG**  
**800 ROBINSON ROAD**  
**OWEGO NY 13827-**

**Re: ACKNOWLEDGMENT of NOTICE of INTENT for**  
**Coverage Under SPDES General Permit for Storm**  
**Water Discharges from CONSTRUCTION**  
**ACTIVITY General Permit No. GP-0-08-001**

Dear Prospective Permittee:

This is to acknowledge that the New York State Department of Environmental Conservation (Department) has received a complete Notice of Intent (NOI) for coverage under General Permit No. GP-0-08-001 for the construction activities located at:

**FINGERLAKES LPG STORAGE, LLC**  
**STATE ROUTE 14**  
**READING NY -**

**County: SCHUYLER**

Pursuant to Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, ECL Article 70, discharges in accordance with GP-0-08-001 from the above construction site will be authorized 5 business days from 8/24/2009 which is the date we received your final NOI, unless notified differently by the Department.

The permit identification number for this site is: NYR 10R595. Be sure to include this permit identification number on any forms or correspondence you send us. When coverage under the permit is no longer needed, you must submit a Notice of Termination to the Department.

This authorization is conditioned upon the following:

1. The information submitted in the NOI received by the Department on 8/24/2009 is accurate and complete.
2. You have developed a Stormwater Pollution Prevention Plan (SWPPP) that complies with GP-0-08-001 which must be implemented as the first element of construction at the above-noted construction site.
3. Activities related to the above construction site comply with all other requirements of GP-0-08-001.

4. Payment of the annual \$100 regulatory fee, which is billed separately by the Department in the early fall. The regulatory fee covers a period of one calendar year. In addition, since September 1, 2004, construction stormwater permittees have been assessed an initial authorization fee which is now \$100 per acre of land disturbed and \$600 per acre of future impervious area. The initial authorization fee covers the duration of the authorized disturbance.

5. When applicable, project review pursuant to the State Environmental Quality Review Act (SEQRA) has been satisfied.

6. You have obtained all necessary Department permits subject to the Uniform Procedures Act (UPA). You should check with your Regional Permit Administrator for further information.

\*Note: Construction activities cannot commence until project review pursuant to SEQRA has been satisfied, when SEQRA is applicable; and, where required, all necessary Department permits subject to the UPA have been obtained.

7. Before disturbing greater than 5 acres of soil at any one time, you have obtained approval from our regional office. You should contact the regional office listed below to have your construction sequencing plan reviewed.

Dixon Rollins  
NYS Department of Environmental Conservation - Region 8  
6274 E. Avon-Lima Road  
Avon, NY 14414-9519

Please be advised that the Department may request a copy of your SWPPP for review.

Should you have any questions regarding any aspect of the requirements specified in GP-0-08-001, please contact Dave Gasper at (518) 402-8114 or the undersigned at (518) 402-8109.

Sincerely,



Toni Cioffi  
Environmental Program Specialist 1

cc: RWE - 8  
SWPPP Preparer

JESS ENGINEERING, PLLC  
JESSICA SKINNER  
2121 COUNTY ROUTE 10  
ALPINE NY 14805-



**New York State Department of Environmental Conservation**  
**Division of Water, Region 8**  
276 Sing Sing Road, Suite 1, Horseheads, NY 14845  
Phone: (607) 739-0809 • Fax: (607) 739-7613  
Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Alexander B. Grannis  
Commissioner

September 15, 2009

Mr. Mike Armstrong  
Finger Lakes LPG Storage, LLC  
800 Robinson Road  
Owego, NY 13827

RE: Finger Lakes LPG Storage, LLC  
SPDES Permit #NYR10R595

Dear Mr. Armstrong,

We have received your request, dated August 21, 2009, to disturb greater than 5 acres of soil at any one time on the above referenced construction project. Based upon the information contained in your letter and the additional information submitted by JESS Engineering, PLLC, your request to disturb greater than 5 acres has been approved. Work must be done as described in your letter and comply with the following conditions as per Part II.C.3 of GP-0-08-001:

1. All erosion and sediment control features must be properly maintained during construction.
2. The *owner or operator* shall have a *qualified inspector* conduct at least two (2) site inspections in accordance with the Permit every seven (7) calendar days for so long as greater than five (5) acres of soil remain disturbed and allow two (2) calendar days between inspections.
3. In areas where soil disturbance activity has been temporarily or permanently ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven (7) days from the date the soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the most current version of the *New York State Standards and Specifications for Erosion and Sediment Control*.
4. The *owner or operator* shall install any additional measures needed to protect water quality.
5. Establish SWPPP communication track to be followed among permittee, inspector, contractor, municipality, and this office to secure prompt (within 48 hours) corrections to site deficiencies identified by each inspection.
6. The *owner or operator* includes the requirement above in their SWPPP (may be incorporated by inclusion of this document in site log book).

\*NOTE: Construction Activities cannot commence until project review pursuant to SEQRA has been satisfied, when SEQRA is applicable; and, where required, all necessary Department permits subject to the UPA have been obtained.

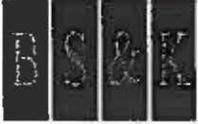
Should you have any questions regarding this letter or the requirements of our general permits, please contact Jessica Verrigni at (607) 796-2216 or via e mail at [jbverrig@qw.dec.state.ny.us](mailto:jbverrig@qw.dec.state.ny.us).

Sincerely,

Scott Rodabaugh, P.E.  
Environmental Engineer

Cc: Jessica Skinner, P.E.~ JESS Engineering, PLLC





September 11, 2009

**VIA FEDERAL EXPRESS**

Ms. Ruth L. Pierpont  
Director, Historic Preservation Field Services Bureau  
New York State Office of Parks, Recreation and Historic Preservation  
Peebles Island Resource Center  
P.O. Box 189  
Waterford, New York 12188

Re: *Project Review – Finger Lakes LPG Storage Facility Project, Town of Reading, Schuyler County*

Dear Ms. Pierpont:

On behalf of our clients, Finger Lakes LPG Storage, LLC, we provide the following information concerning the proposed construction of a multi-cycle LPG (liquid propane and butane) storage system with a major pipeline connection and rail and truck load/unload racks in the Town of Reading, Schuyler County.

1. **Project Description - Proposed Finger lakes LPG Storage Facility Project**

Finger Lakes LPG Storage, LLC, a subsidiary of Inergy Midstream, LLC is proposing the construction of a multi-cycle LPG storage system with a major pipeline connection and rail and truck load/unload racks. LPG (butane or propane) will be stored in caverns in the Syracuse Salt formation on company owned property. The cavern was created by solution mining salt for consumer use by U.S. Salt, an affiliate of Finger Lakes LPG Storage, LLC and subsidiary of Inergy Midstream, LLC.. A copy of a more detailed project description is attached.

2. **Maps Locating the Project**

We attach a copy of the following:

- (a) Facility location map;
- (b) Plan view-rail siding facility layout;

Ms. Ruth L. Pierpont  
September 11, 2009  
Page 2

- (c) Brine pond-plan view facility layout;
- (d) Plant-plan view facility layout;
- (e) USGS Topo map; and
- (f) Archeo Sensitive and Register Listed Sites SHPO Maps.

3. Site Photograph

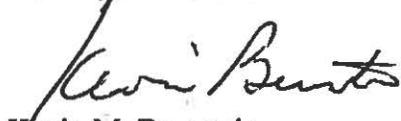
Attached please find a copy of an aerial color photo from 2009 of the vicinity of the project site. Proposed locations for the switch yard, rail siding office, rail siding, brine pond area and plant area are indicated on the photo.

We have determined from the information on SHPO's website that some of the project site is included within an archaeologically sensitive area, but there are no properties that are listed or eligible for listing on the State or National Register of Historic Places in the immediate vicinity of the Project locations. In addition, based on the previous disturbance of this area (the site has previously been used for solution mining by U.S. Salt), we request SHPO to determine that the project components where the plant and brine pond are located will have no impact upon cultural resources. We also request you make this determination for the other locations of the project (e.g. rail/truck area).

Thank you for your time and consideration. I am available to answer any questions or provide additional information.

Sincerely,

BOND, SCHOENECK & KING, PLLC



Kevin M. Bernstein

Enclosures



## The Historic Preservation Review Process in New York State

In order to insure that historic preservation is carefully considered in publicly-funded or permitted undertakings\*, there are laws at each level of government that require projects to be reviewed for their potential impact/effect on historic properties. At the federal level, Section 106 of the National Historic Preservation Act of 1966 (NHPA) directs the review of federally funded, licensed or permitted projects. At the state level, Section 14.09 of the New York State Parks, Recreation and Historic Preservation Law of 1980 performs a comparable function. Local environmental review for municipalities is carried out under the State Environmental Quality Review Act (SEQRA) of 1978.

regulations on line at:

<http://nysparks.state.ny.us> then select HISTORIC PRESERVATION then select Environmental Review

Project review is conducted in two stages. First, the Field Services Bureau assesses affected properties to determine whether or not they are listed or eligible for listing in the New York State or National Registers of Historic Places. If so, it is deemed "historic" and worthy of protection and the second stage of review is undertaken. The project is reviewed to evaluate its impact on the properties significant materials and character. Where adverse effects are identified, alternatives are explored to avoid, or reduce project impacts; where this is unsuccessful, mitigation measures are developed and formal agreement documents are prepared stipulating these measures.

### ALL PROJECTS SUBMITTED FOR REVIEW SHOULD INCLUDE THE FOLLOWING MATERIAL(S).

**Project Description**

Attach a full description of the nature and extent of the work to be undertaken as part of this project. Relevant portions of the project applications or environmental statements may be submitted.

**Maps Locating Project**

Include a map locating the project in the community. The map must clearly show street and road names surrounding the project area as well as the location of all portions of the project. Appropriate maps include tax maps, Sanborn Insurance maps, and/or USGS quadrangle maps.

**Photographs**

Photographs may be black and white prints, color prints, or color laser/photo copies; standard (black and white) photocopies are NOT acceptable.

*-If the project involves rehabilitation, include photographs of the building(s) involved. Label each exterior view to a site map and label all interior views.*

*-If the project involves new construction, include photographs of the surrounding area looking out from the project site. Include photographs of any buildings (more than 50 years old) that are located on the project property or on adjoining property.*

**NOTE: Projects submissions will not be accepted via facsimile or e-mail.**

\***Undertaking** is defined as an agency's purchase, lease or sale of a property, assistance through grants, loans or guarantees, issuing of licenses, permits or approvals, and work performed pursuant to delegation or mandate.

# **PROJECT DESCRIPTION**

## **I. Project and Process Description:**

Finger Lakes LPG Storage, LLC, a subsidiary of Inergy Midstream, LLC plans to construct a multi-cycle LPG (liquid propane and butane) storage system with a major pipeline connection and rail and truck load/unload racks.

LPG (Butane or propane) will be stored in caverns in the Syracuse Salt formation on company owned property. The cavern was created by solution mining salt for consumer use by U.S. Salt.

The caverns will initially be full of brine (as they are now). A multi-stage split case centrifugal (or equivalent) pump (high pressure pump) will be used to transfer product to the cavern from the Texas Eastern Pipeline Company (TEPCO) pipeline or via rail or truck. During the injection cycle, brine will be displaced out the bottom of the cavern as the LPG is pumped in the top. The process will be reversed during the withdrawal cycle when brine is pumped into the bottom of the cavern and LPG is withdrawn from the top. A surface pressure of approximately 1000 psi will be maintained when LPG is in the cavern, depending on the surface elevation of the well and depth of the cavern.

LPG can be received by pipeline (TEPCO), truck or rail. The pipeline will feed the suction of the high pressure pump for injection directly into the cavern in the injection cycle at an initial design rate of 5,100 Barrels Per Day (BPD) to 20,000 BPD. The railrack (to be constructed on property recently acquired by Finger Lakes LPG Storage) is projected to be capable of loading or unloading 24 rail cars in 12 hours with space to park 24 rail cars. Surge capacity (bullet storage tanks) will consist of 5-30,000 gallon vessels, which can be used for butane or propane. The truck rack is projected to be capable of loading or unloading 30 trucks/day with 2 bays, expandable to 4 bays.

A transfer pump system utilizing centrifugal "can" pumps will be installed to load trucks and to supply the required Net Positive Suction Head (NPSH), a critical factor when pumping LPG to the high pressure pumps. A vapor circulation system utilizing Corken compressors will be utilized to unload rail cars or trucks.

Propane will be withdrawn through a dehydration system to remove any water vapor from the product.

Brine circulated from the caverns will be stored in an above ground pond. All brine will be circulated through a separator with an active flare before being transferred to storage in the pond.

LPG will be withdrawn as brine is injected into the cavern. The LPG will have adequate head to directly enter the TEPCO pipeline, railcars or trucks at a controlled rate through a variable choke system with pressure over rides and shutins.

All design will be in accordance with applicable NFPA, OSHA (PSM), DOT and DEC specifications. The pumps and compressors will be powered by electricity. The interconnecting pipelines will utilize high tensile steel pipe and fittings, coated with TFE when installed below grade.

## **II. Further Description of Structures at Each Project Location:**

### **A. Rail/Truck Area**

There will be a new entrance to this site (per a Highway Permit from NYSDOT) to access the rail/truck loading and unloading area. This area will include the following buildings/structures:

- 6 rail spurs
- 5 product storage tanks (30,000 gallons each). The tanks will be on concrete footers and will be 65' long and 8' in diameter.
- Control building of 24x32'
- Truck canopy (not fully enclosed) of 30x40'
- 3 kiosk buildings (approximately 6x8' each) enclosed, heated and cooled
- Approximately 3,100 feet of chain link fence

### **B. Plant Area**

The Plant Area will consist of a canopy building to house four (4) 700 hp pumps (to be used to bring product in and pull brine out of the caverns). The Building will be approximately 40x60x15' (height). There will also be a small control building (10x12') and a 10x40' motor control center (MCC). The total area of disturbance for the Plant Area will be approximately 300x400', but leaving a buffer along NYS Route 14. This will include parking. In addition, there will be an approximate 60x90' substation (will be separately fenced) which will be the source of power for the pumps.

### **C. Brine Pond**

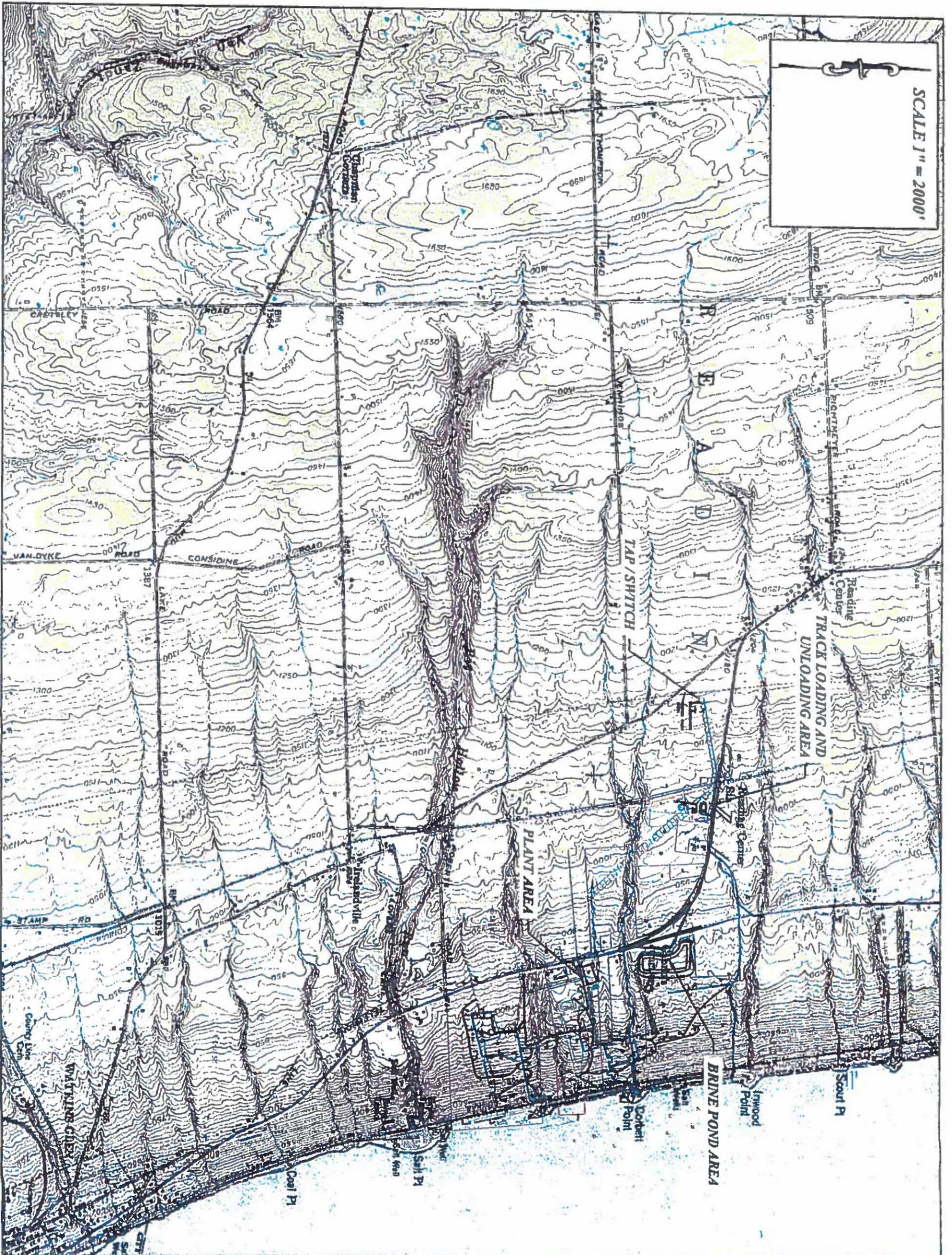
The brine pond location will have no other building structure. The irregularly shaped pond will hold approximately 75.6 million gallons of brine and will be approximately 32' deep, 386-608' wide, and 1052' long.

### **D. Pipeline and Transmission Line**

There will be several sections of pipeline and electric transmission line (regulated by the Public Service Commission) as follows:

- Electric Line: approximately 6,850' total (2,840' underground and 4,010' overhead)
- Pipeline: approximately 10,625' total (TEPCO to Plant Area – 1805'; Plant Area to Caverns – 2,635'; Caverns to Brine Pond – 1,485'; Plant Area to Rail/Truck Area – 4,700') of 12" diameter steel pipeline

# MAPS LOCATING PROJECT



Approval:

It is a violation of the law for any person unless he is acting under the direction of a licensed professional architect/engineer to alter this drawing in any way. Alterations must have the seal affixed along with a description of the alteration, the signature and date.



Drawn By:  
J. Skinner

Date:  
08/09

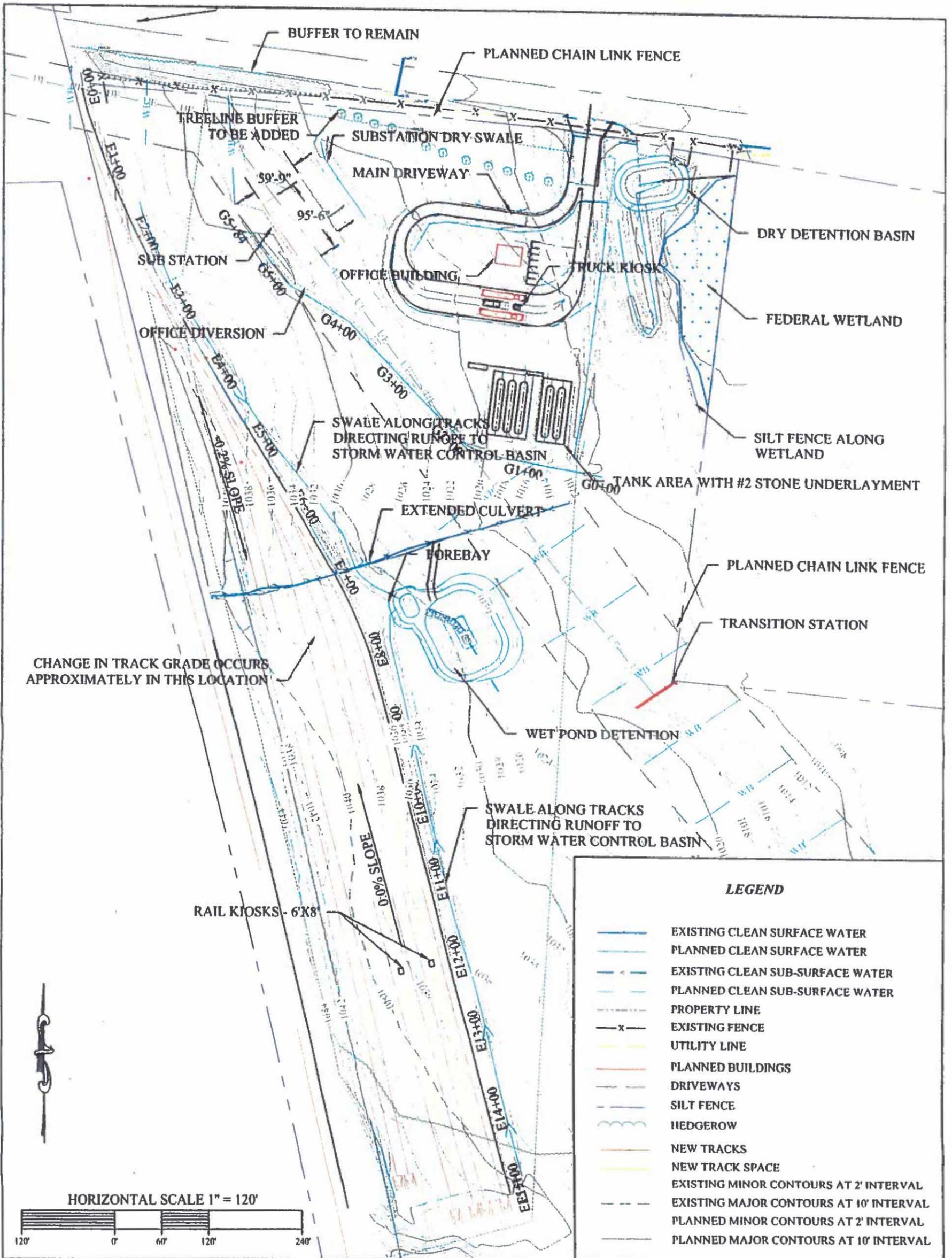
Checked By:  
J. Skinner

Date:  
08/09

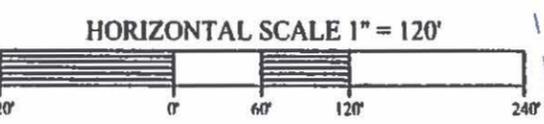
Location Map  
Facility Layout  
Fingerlakes Storage LLC

DRAWING: Site Plan.dwg

DRAWING PATH: K:\Civil 3D 2008\Superior Energy



CHANGE IN TRACK GRADE OCCURS APPROXIMATELY IN THIS LOCATION



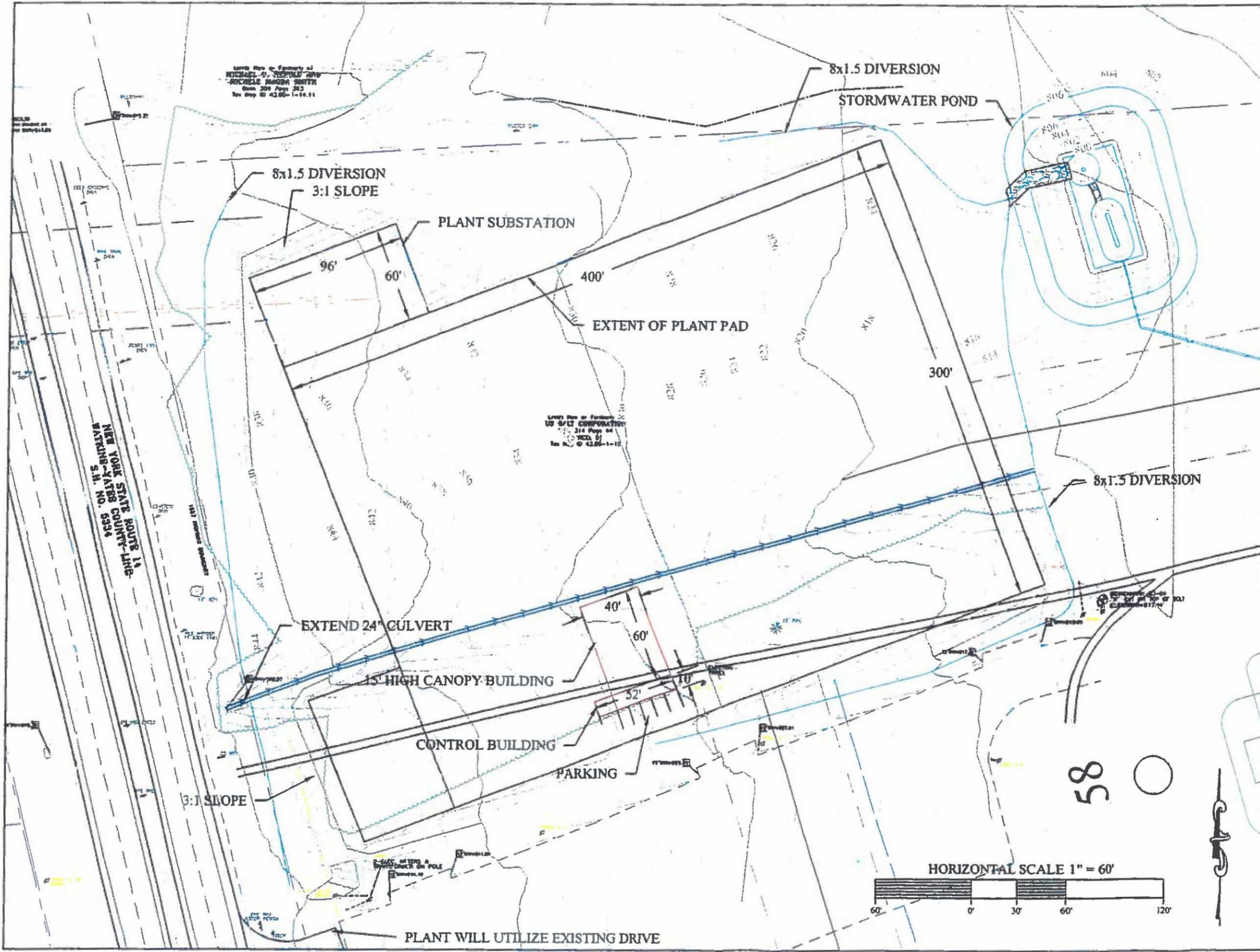
**LEGEND**

	EXISTING CLEAN SURFACE WATER
	PLANNED CLEAN SURFACE WATER
	EXISTING CLEAN SUB-SURFACE WATER
	PLANNED CLEAN SUB-SURFACE WATER
	PROPERTY LINE
	EXISTING FENCE
	UTILITY LINE
	PLANNED BUILDINGS
	DRIVEWAYS
	SILT FENCE
	HEDGEROW
	NEW TRACKS
	NEW TRACK SPACE
	EXISTING MINOR CONTOURS AT 2' INTERVAL
	EXISTING MAJOR CONTOURS AT 10' INTERVAL
	PLANNED MINOR CONTOURS AT 2' INTERVAL
	PLANNED MAJOR CONTOURS AT 10' INTERVAL

Approval:

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<p><b>JESS Engineering, PLLC</b> 3111 Conroy Rd. W. Albany, NY 12247 Phone: 518-438-1117 Fax: 518-438-1118</p>	Drawn By: J. Skinner	Date: 08/09	<b>Plan View-Rail Siding Facility Layout Fingerlakes Storage LLC</b>
	Checked By: J. Skinner	Date: 08/09	
DRAWING: Site Plan.dwg		DRAWING PATH: K:\Civil 3D 2008\Superior Energy	



LAND PLAN or Survey of  
 MICHAEL W. HOFFMAN 2009  
 MICHAEL HOFFMAN SURVEY  
 Open 2009 Page 303  
 See Map ID #1200-1-10-11

LAND PLAN or Survey of  
 US S/LT CORPORATION  
 314 Page 04  
 2003, 07  
 See Map ID #1200-1-10-11

NEW YORK STATE ROUTE 14  
 WAITING-YATES COUNTY LINE  
 S.H. NO. 6934

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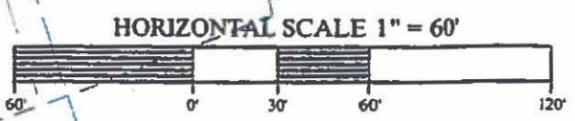
Plant Plan View  
 Facility Layout  
 Fingerlakes Storage LLC

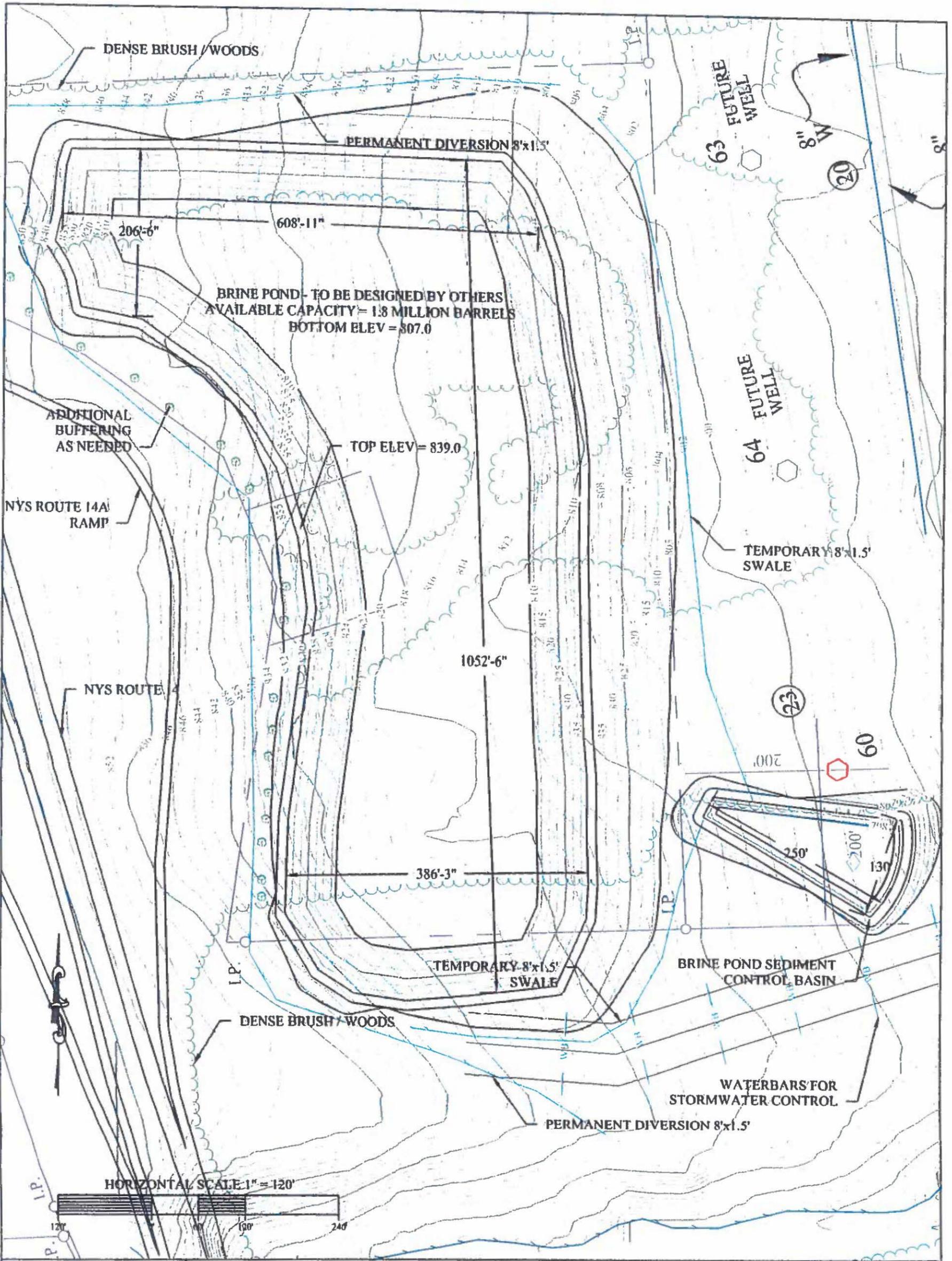
Drawn By: J. Skinner	Date: 08/09
Checked By: J. Skinner	Date: 08/09

DRAWING PATH: K:\Civil 3D 2008\Superior Energy  
 DRAWING: Site Plan.dwg

Approval:

58





Approval:

It is a violation of the law for any person unless he is acting under the direction of a licensed professional architect/engineer to alter this drawing in any way. Alterations must have the seal affixed along with a description of the alteration, the signature and date.

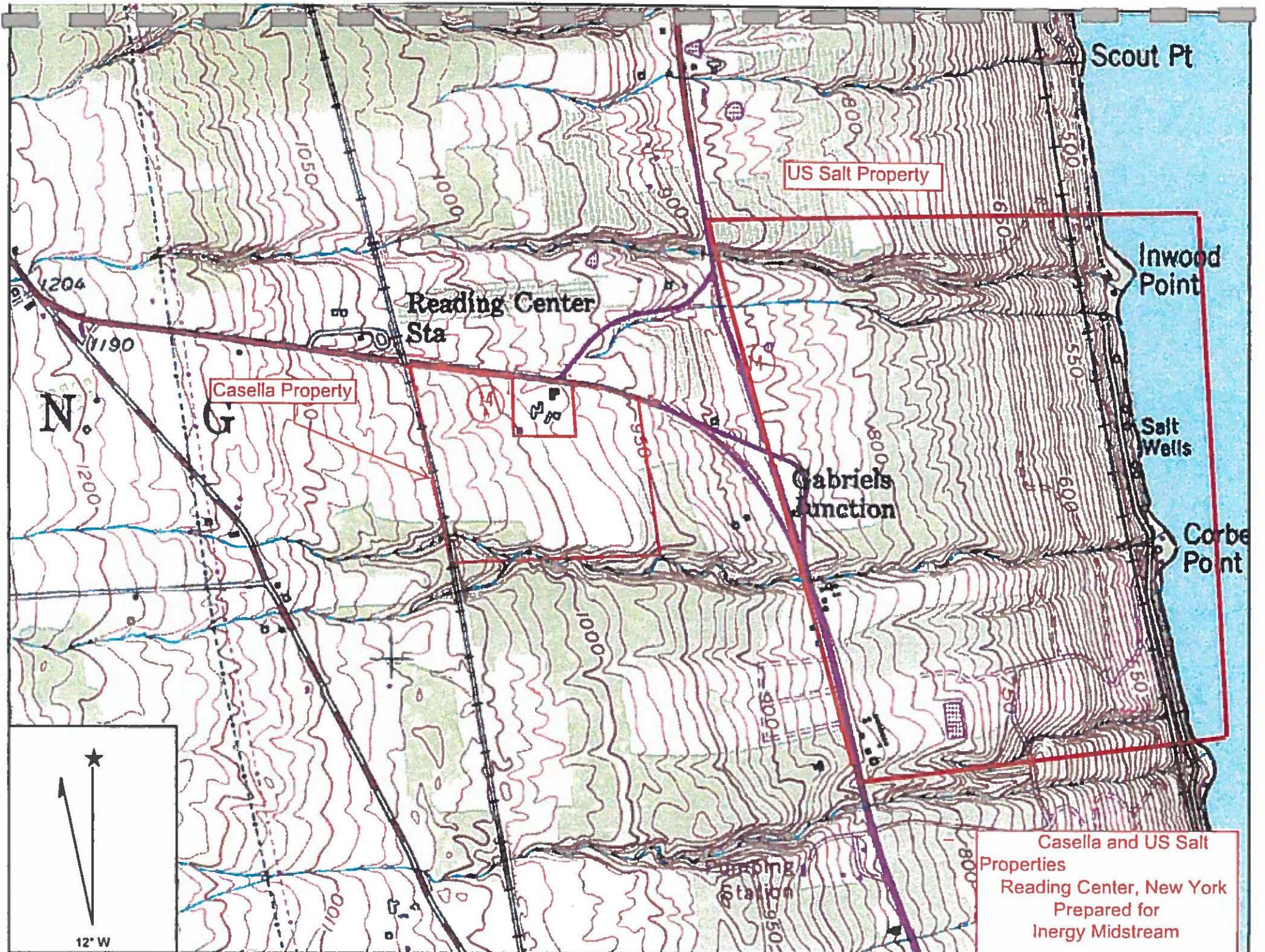


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J. Skinner  
Date:  
08/09  
Checked By:  
J. Skinner  
Date:  
08/09

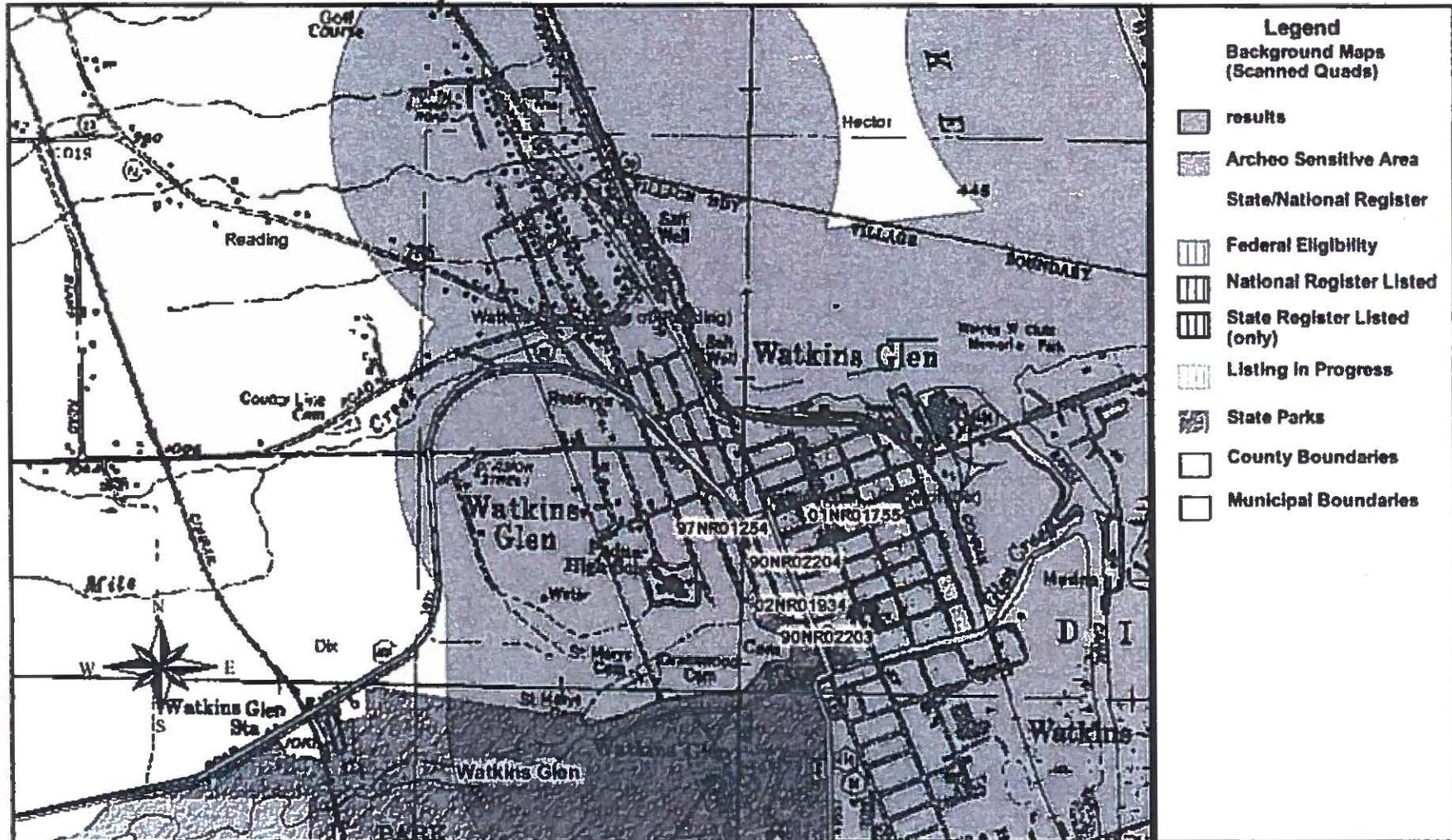
Brine Pond Plan View  
Facility Layout  
Fingerlakes Storage LLC

DRAWING: Site Plan.dwg

DRAWING PATH: K:\Civil 3D 2008\Superior Energy



### Finger Lakes LPG Storage Facility



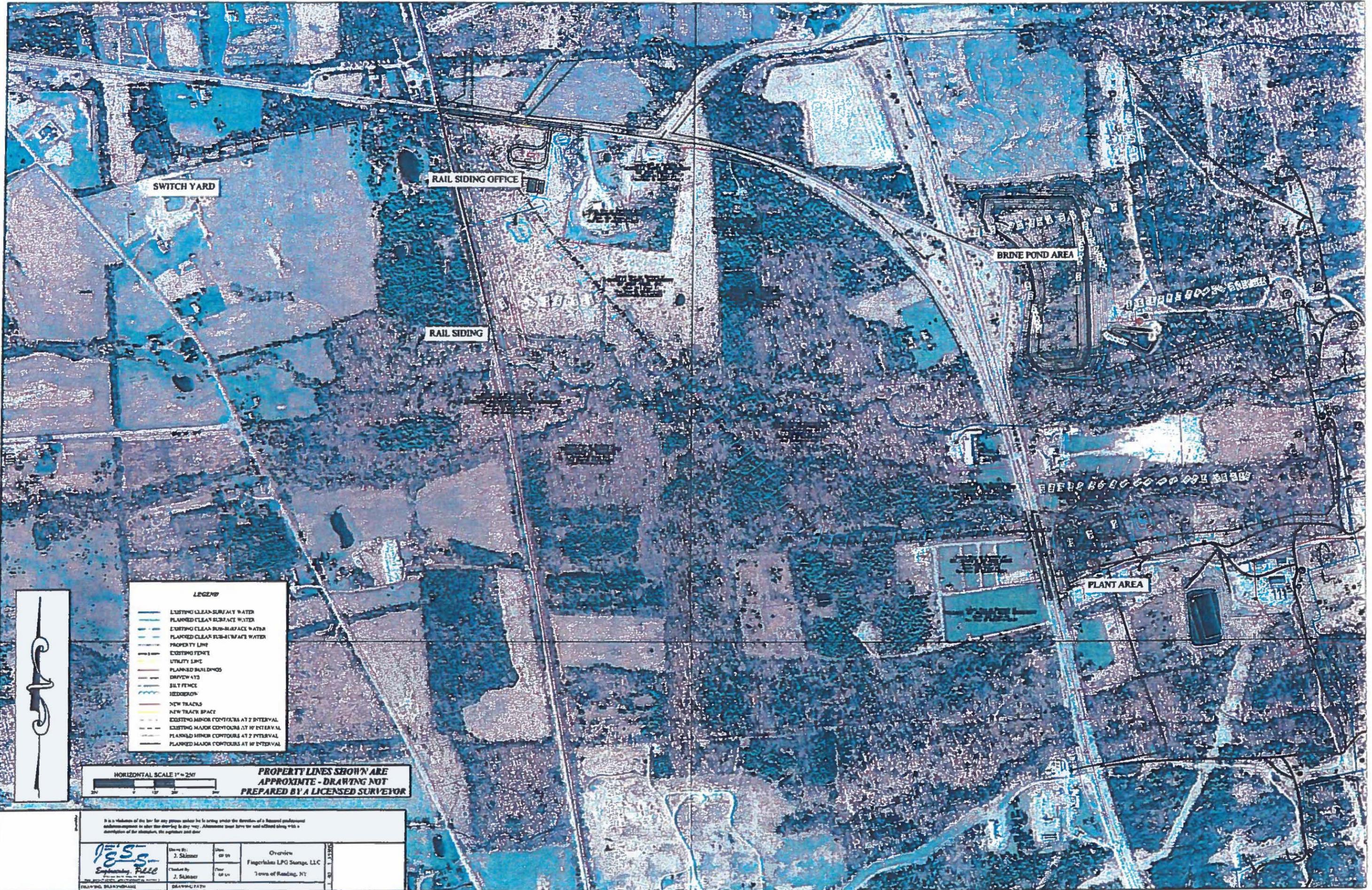
September 10, 2009

Disclaimer: This map was prepared by the New York State Parks, Recreation and Historic Preservation National Register Listing Internet Application. The information was compiled using the most current data available. It is deemed accurate, but is not guaranteed.

## Results 1 - 1

NR Number	Name	Status	Address	City	County	Listing Date	Theme
02NR01934	Watkins Glen Grand Prix Course, 1948-1952	XX	Franklin Street et al.	Watkins Glen, Reading, Dix	Schuyler		

# PHOTOGRAPHS



- LEGEND**
- EXISTING CLEAR SURFACE WATER
  - PLANNED CLEAR SURFACE WATER
  - EXISTING CLEAR SUB-SURFACE WATER
  - PLANNED CLEAR SUB-SURFACE WATER
  - PROPERTY LINE
  - EXISTING FENCE
  - PLANNED BUILDINGS
  - DRIVEWAY
  - SILT FENCE
  - SEDIMENT
  - NEW TRACKS
  - NEW TRACK SPACE
  - EXISTING MINOR CONTOURS AT 2' INTERVAL
  - EXISTING MAJOR CONTOURS AT 10' INTERVAL
  - PLANNED MINOR CONTOURS AT 2' INTERVAL
  - PLANNED MAJOR CONTOURS AT 10' INTERVAL



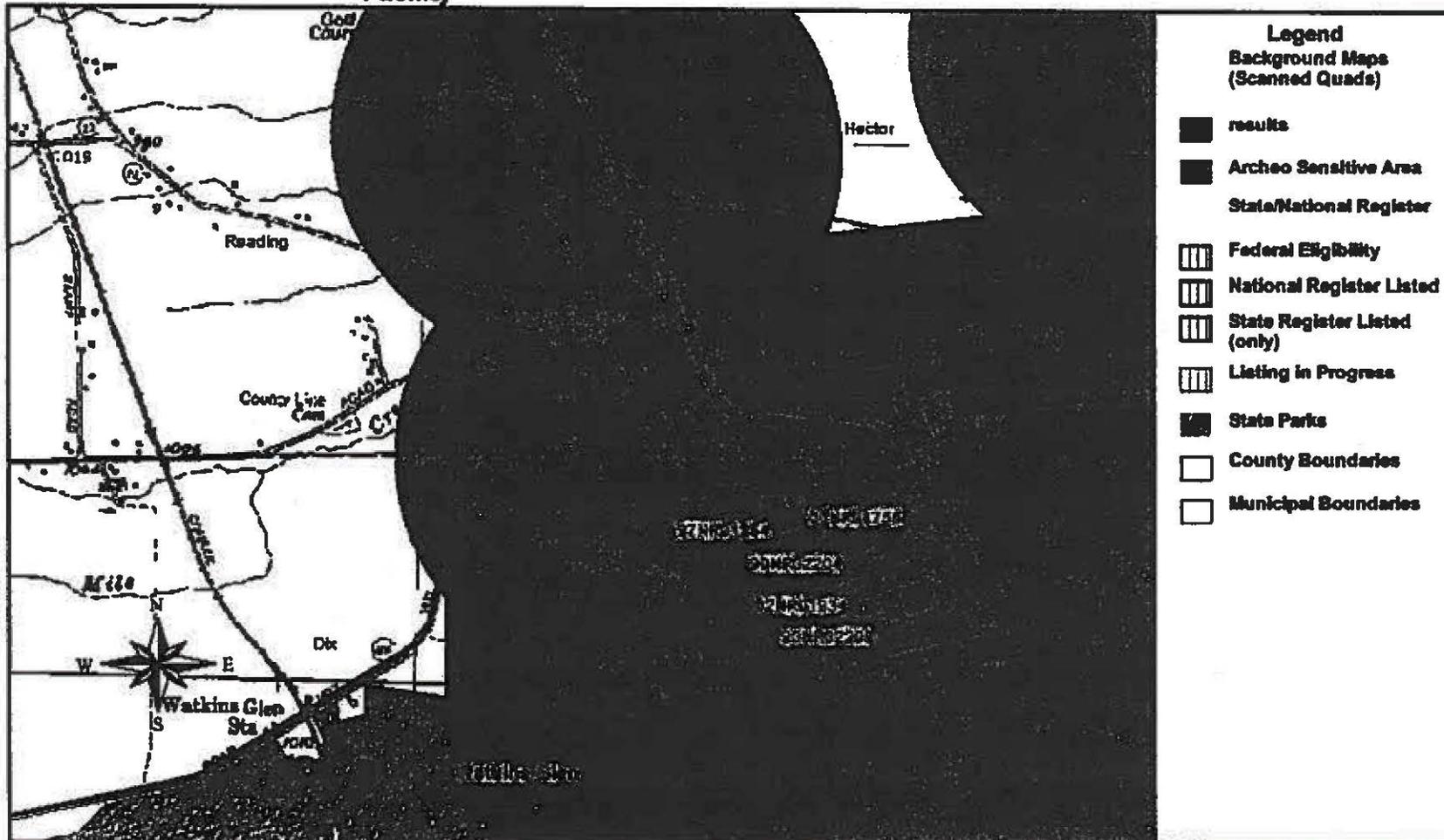
**PROPERTY LINES SHOWN ARE APPROXIMATE - DRAWING NOT PREPARED BY A LICENSED SURVEYOR**

It is a violation of this law for any person unless he is acting under the direction of a licensed professional geoscientist to alter the drawing in any way. Alterations shall have the same effect as if they were made by the drafter, the engineer and the geoscientist.

	Drawn By:	J. Sklar	Scale:	AS SH	Overview
	Checked By:	J. Sklar	Date:	08/14	Finger Lakes LPG Storage, LLC Towns of Reading, NY
DRAWING NUMBER:		DRAWING PATH:			

*Previously submitted with September 11, 2009 letter*

### Finger Lakes LPG Storage Facility



September 10, 2009

Disclaimer: This map was prepared by the New York State Parks, Recreation and Historic Preservation National Register Listing Internet Application. The information was compiled using the most current data available. It is deemed accurate, but is not guaranteed.

**Fingers Lake Storage Facility**



September 14, 2009

Disclaimer: This map was prepared by the New York State Parks, Recreation and Historic Preservation National Register Listing Internet Application. The information was compiled using the most current data available. It is deemed accurate, but is not guaranteed.





**BOND, SCHOENECK & KING, PLLC**

ATTORNEYS AT LAW • NEW YORK FLORIDA KANSAS

KEVIN M. BERNSTEIN  
Direct: 315-218-8329  
kbernstein@bsk.com

September 14, 2009

**VIA FACSIMILE**

Ms. Ruth L. Pierpont  
Director, Historic Preservation Field Services Bureau  
New York State Office of Parks, Recreation and Historic Preservation  
Peebles Island Resource Center  
P. O. Box 189  
Waterford, NY 12188

Re: *Project Review - Finger Lakes LPG Storage Facility Project, Town of Reading, Schuyler County*

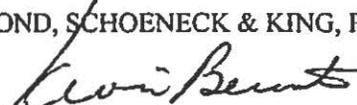
Dear Ms. Pierpont:

In a letter dated September 11, 2009, we submitted information to your office on behalf of our clients, Finger Lakes LPG Storage, LLC concerning the proposed construction of a multi-cycle LPG (liquid propane and butane) storage system with a major pipeline connection and rail and truck load/unload racks in the Town of Reading, Schuyler County. On the Project Review Cover Form we indicated that the project site was wholly or partially included within an identified archeologically sensitive area and included an archeo sensitive map. It has since been determined that the archeo sensitive map included in our September 11 submission is south of the location of the proposed facility. A further review of information on SHPO's website indicates that the project sites are not included within any archaeologically sensitive areas and there are no properties that are listed or eligible for listing on the State or National Register of Historic Places in the immediate vicinity of the project locations. We request SHPO to determine that the project locations will have no impact upon cultural resources. A revised archeo sensitive map is included for your reference as well as a revised Project Review Cover Form.

Thank you for your time and consideration. I am available to answer any questions or provide additional information.

Sincerely,

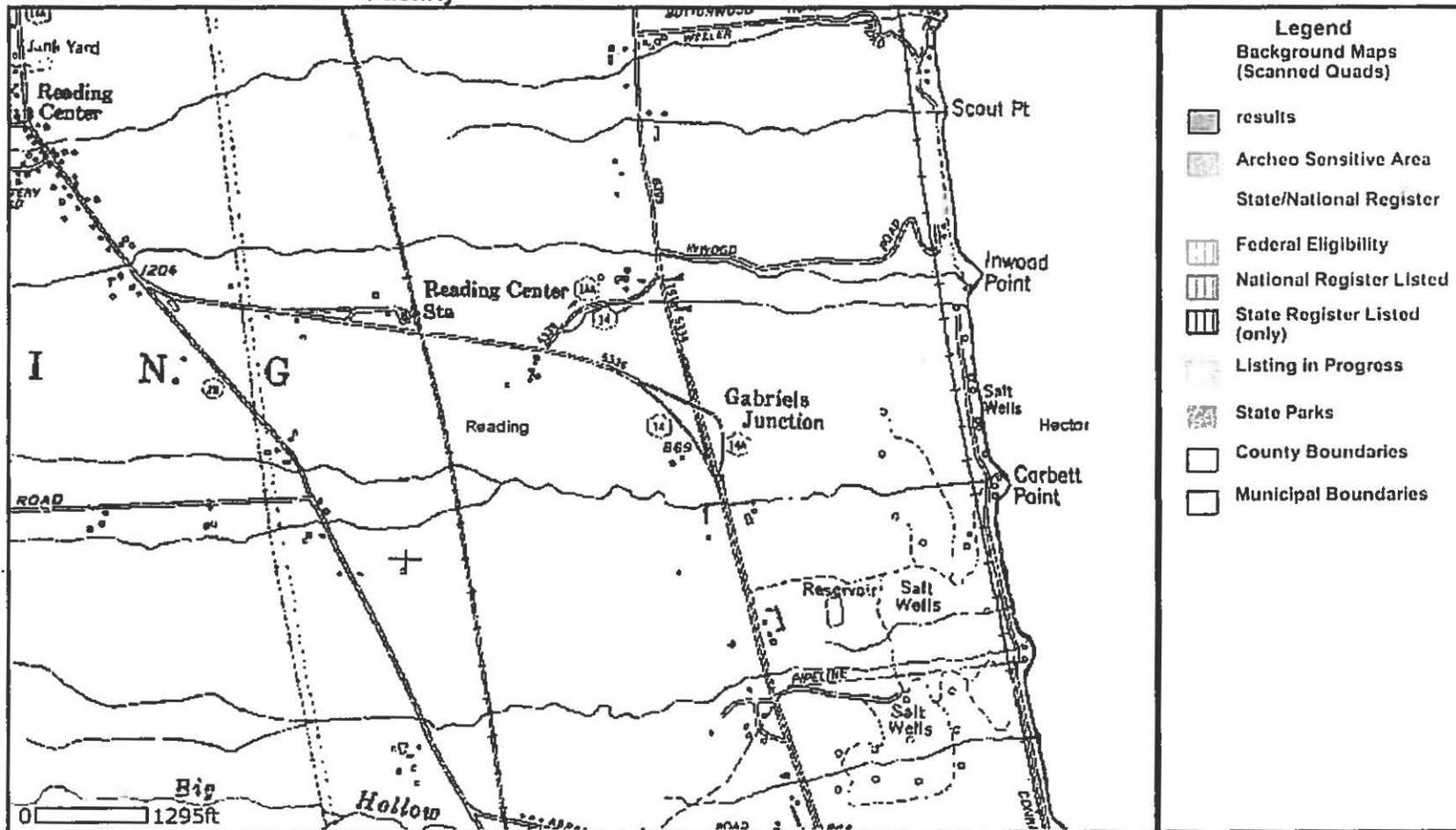
BOND, SCHOENECK & KING, PLLC

  
Kevin M. Bernstein

Enclosures



Finger Lakes Storage Facility



September 14, 2009

Disclaimer: This map was prepared by the New York State Parks, Recreation and Historic Preservation National Register Listing Internet Application. The information was compiled using the most current data available. It is deemed accurate, but is not guaranteed.





**New York State Office of Parks,  
Recreation and Historic Preservation**

Historic Preservation Field Services Bureau • Peebles Island, PO Box 189, Waterford, New York 12188-0189

518-237-8643

www.nysparks.com

David A. Paterson  
Governor

Carol Ash  
Commissioner

September 24, 2009

**RECEIVED**

SEP 28 2009

BOND, SCHOENECK & KING, PLLC

Kevin M. Bernstein  
Bond, Schoeneck & King, PLLC  
One Lincoln Center  
Syracuse, New York 13202

Re: DEC,PSC  
Finger Lakes LPG Storage Facility Project  
NY 14 & 14A/READING, Schuyler County  
09PR04982

Dear Mr. Bernstein:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP) concerning your project's potential impact/effect upon historic and/or prehistoric cultural resources. Our staff has reviewed the documentation that you provided on your project. Preliminary comments and/or requests for additional information are noted on separate enclosures accompanying this letter. A determination of impact/effect will be provided only after ALL documentation requirements noted on any enclosures have been met. Any questions concerning our preliminary comments and/or requests for additional information should be directed to the appropriate staff person identified on each enclosure.

In cases where a state agency is involved in this undertaking, it is appropriate for that agency to determine whether consultation should take place with OPRHP under Section 14.09 of the New York State Parks, Recreation and Historic Preservation Law. In addition, if there is any federal agency involvement, Advisory Council on Historic Preservation's regulations, "Protection of Historic and Cultural Properties" 36 CFR 800 requires that agency to initiate Section 106 consultation with the State Historic Preservation Officer (SHPO).

When responding, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Ruth L. Pierpont  
Director

Enclosure

**REQUEST FOR ADDITIONAL INFORMATION  
BUILDINGS/STRUCTURES/DISTRICTS**

**PROJECT NUMBER 09PR04982**

**( Finger Lakes LPG Storage Facility Project/NY 14 & 14A/T/READING )**

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In order for us to complete our evaluation of the historic signification of all buildings/structures/districts within or adjacent to your project area we will need the following additional information

- Full project description showing area of potential effect.
- Clear, original photographs of buildings/structures 50 years or older.
  - within or  immediately adjacent to the project area
  - \*\* key all photographs to a site map*
- Clear, original photographs of the surroundings looking out from the project site in all direction, *keyed to a site map.*
- Date of construction.
- Brief history of property.
- Clear, original photographs of the following:
- Other:

Please provide only the additional information checked above. If you have any question concerning this request for additional information, please call ~~Lynn Carolan~~ at 518-237-8643. ext ~~3267~~

*NANCY TODD 3262*

**PLEASE BE SURE TO REFER TO THE PROJECT NUMBER NOTED ABOVE WHEN  
RESPONDING TO THIS REQUEST**





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**BOND, SCHOENECK & KING, PLLC**  
ATTORNEYS AT LAW • NEW YORK FLORIDA KANSAS

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KEVIN M. BERNSTEIN  
Direct: 315-218-8329  
Fax: 315-218-8429  
kbernstein@bsk.com

October 8, 2009

**VIA FIRST CLASS MAIL**

Ms. Ruth L. Pierpont  
Director, Historic Preservation Field Services Bureau  
New York State Office of Parks, Recreation and Historic Preservation  
Peebles Island Resource Center  
P.O. Box 189  
Waterford, New York 12188

Re: *Finger Lakes LPG Storage Facility Project*  
*NY 14 & 14A/READING, Schuyler County*  
*09PR04982*

Dear Ms. Pierpont:

As you know, we represent Finger Lakes LPG Storage, LLC in connection with the proposed construction of a multi-cycle LPG (liquid propane and butane) storage system with a major pipeline connection and rail and truck load/unload racks in the Town of Reading, Schuyler County.

This letter is in response to your letter dated September 24, 2009 in which you requested additional information. Below are Finger Lakes' responses to the information requested.

1. **Information Request:** Clear, original photographs of buildings/structures 50 years or older, within or immediately adjacent to the project area.

*Finger Lakes Response: There are no buildings or structures older than 50 years on or immediately adjacent to any project area.*

2. **Information Request:** Clear, original photographs of the surroundings looking out from the project site in all direction, keyed to a site map.

*Finger Lakes Response: Attached are photographs for each of the project location areas – Brine Pond Area, Plant Area, and Rail/Truck Area – taken from a north, south, east and west*

Ms. Ruth L. Pierpont  
October 8, 2009  
Page 2

*view. Each of the photographs is labeled with the project name, location, direction, date and time.*

I hope that this provides all of the information that the OPRHP will need in order to conclude its review and make a determination of the impact/effect upon historic and/or prehistoric cultural resources of the project.

Sincerely,

BOND, SCHOENECK & KING, PLLC



Kevin M. Bernstein

Enclosures



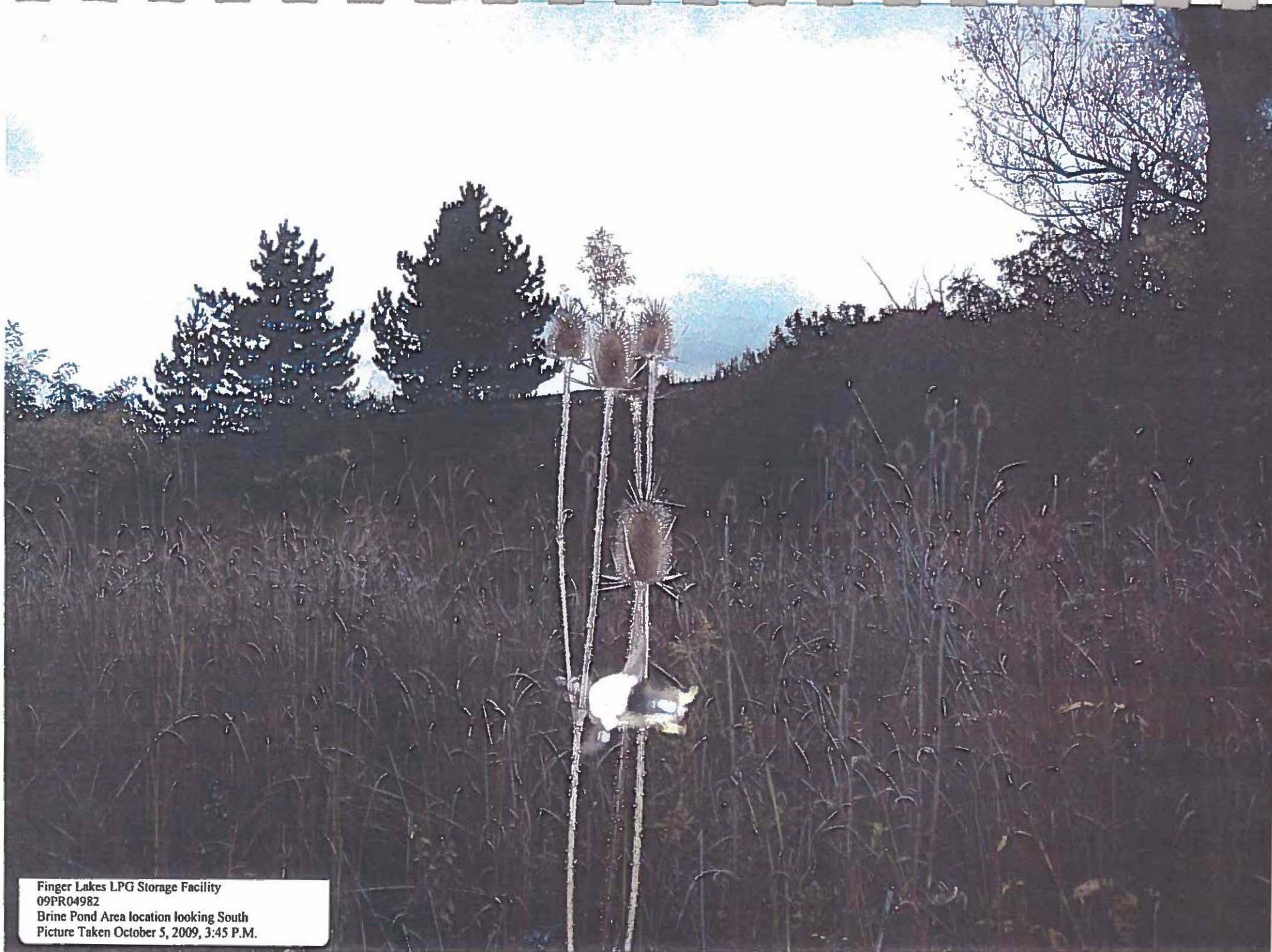
Finger Lakes LPG Storage Facility  
09PR04982  
Brine Pond Area location looking West  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Brine Pond Area location looking East  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Brine Pond Area location looking North  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Brine Pond Area location looking South  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Plant Area location looking West  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Plant Area location looking East  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Plant Area location looking North  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Plant Area location looking South  
Picture Taken October 5, 2009, 3:45 P.M.



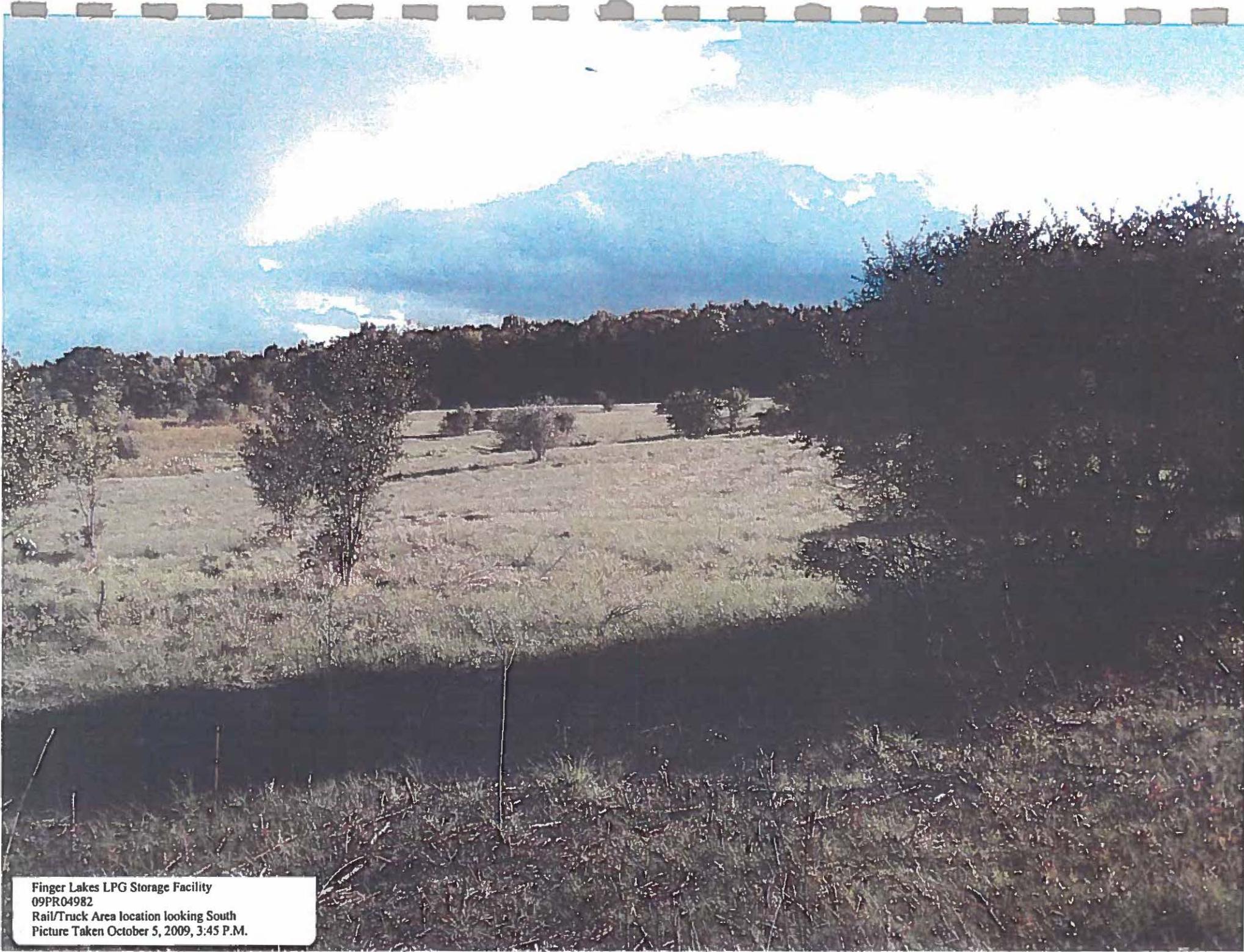
Finger Lakes LPG Storage Facility  
09PR04982  
Rail/Truck Area location looking North  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Rail/Truck Area location looking West  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Rail/Truck Area location looking East  
Picture Taken October 5, 2009, 3:45 P.M.



Finger Lakes LPG Storage Facility  
09PR04982  
Rail/Truck Area location looking South  
Picture Taken October 5, 2009, 3:45 P.M.





**New York State Office of Parks,  
Recreation and Historic Preservation**

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**David A. Paterson**  
Governor

**Carol Ash**  
Commissioner

October 14, 2009

**RECEIVED**

**OCT 16 2009**

**BOND, SCHOENECK & KING, PLLC**

✓ Kevin M. Bernstein  
Bond, Schoeneck & King, PLLC  
One Lincoln Center  
Syracuse, New York 13202

Re: DEC, PSC  
Finger Lakes LPG Storage Facility Project  
NY 14 & 14A  
READING, Schuyler County  
09PR04982

Dear Mr. Bernstein:

Thank you for requesting the comments of the Field Services Bureau of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Field Services Bureau and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the OPRHP's opinion that your project will have No Impact upon cultural resources in or eligible for inclusion in the State and National Register of Historic Places.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Ruth L. Pierpont  
Director



Ruth Pierpont

New York State Office of Parks, Recreation and Historic Preservation  
Historic Preservation Field Services Bureau  
Pebbles Island, PO Box 189, Waterford, New York 12188-0189



Kevin M. Bernstein  
Bond, Schoeneck & King, PLLC  
One Lincoln Center  
Syracuse, New York 13202

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OCT 16 2009

BOND, SCHOENECK & KING, PLLC

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