

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
phone 785-864-3965
fax 785-864-5317

Proposed Project for Application to the Kansas Department of Health and Environment for the Kansas Water Pollution Control Revolving Loan Fund.

Applicant: Strother Field Commission
Wastewater Treatment Plant Improvements

Contact Person: David Caudill, P.E.
Address: HNTB Corporation
715 Kirk Drive
Kansas City, MO 64105

Sent to the Kansas Geological Survey for environmental review.

Agency Review Comments:

The long-term benefits of the improvements to the wastewater treatment system, which will improve the quality of the water receiving the treatment plant effluent, should offset any short-term adverse environmental impacts during construction.

Recommended Action:

- ☒ Clearance of project should be granted
- ☐ Clearance of project should not be granted
- ☐ Clearance of project should be delayed until the issues or questions have been clarified
- ☐ Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above

Donald Whittemore
Reviewer's Name

Geohydrology Section, Kansas Geological Survey
Division/Agency

5/22/06
Date


Reviewer's Signature

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of this facility or property. The information provided in this letter is from regional or county-wide studies and should not be used as a substitute for detailed site characterization by a licensed geologist or engineer. It is the responsibility of the applicant to provide any required site characterizations.

Additional note: The letter to the Kansas Geological Survey was addressed to Dr. Lee Allison. Please note that Dr. Allison has not been the Director of the Kansas Geological Survey since the middle of August 2004. The current Director is Dr. William Harrison.

April 26, 2006

P.O. Box 412197
Kansas City, MO 64141

Dr. Lee Allison
Kansas Geological Survey
KU-1930 Constant Ave – Campus West
Lawrence, KS 66047

HNTB

Reference: Strother Field Wastewater Treatment Plant Improvements
Identification No. C20-1682-01

We are submitting with this letter along with information regarding proposed improvements to the Strother Field Wastewater Treatment Plant for your review and clearance. Strother Field intends to apply for a Kansas Water Pollution Control Revolving Loan Fund (KWPCRLF) low interest loan for the proposed improvements.

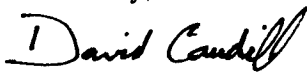
Information enclosed about the proposed project is as follows:

1. KWPCRLF Application Form
2. Narrative description of the project
3. Site map
4. Project budget summary

We are requesting an environmental review and clearance similar to the "single Point of Contact" reviews as previously handled by the Department of Administration. Review comments regarding the proposed project are due at this office by May 31, 2006.

Your prompt attention to this matter is sincerely appreciated. If you require additional information, please advise.

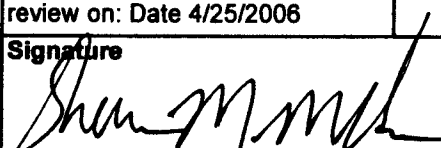
Sincerely,



David Caudill, P.E.
HNTB Corporation
715 Kirk Drive
Kansas City, MO 64105
816-472-1201
dcaudill@hntb.com

cc: Shawn McGrew, Manager

Kansas Department of Health and Environment

APPLICATION FOR SRF LOAN ASSISTANCE		New	Amendment
Project Number	C 20-1682-01	Application Type	X
1. Legal Applicant / Recipient		2. Type of Applicant / Recipient	
Applicant Name	Strother Field Commission	A. City	
Organization Unit		B. County	
Street / PO Box	P.O. Box 747	C. Other (Specify)	
City	Winfield	Enter Appropriate Letter	
County	Cowley	C	
State / Zip code	KS/67156	Strother Field Industrial Park	
Contact Person Name	Shawn M. McGrew		
Telephone Number	620-221-9280		
3. Title of applicants project			
Wastewater Treatment Plant Improvements			
4. Type of Project			
Wastewater Treatment Plant Improvements			
5. Employer Identification Number			48-0725-249
6. Area of project impact (Names of cities, counties, etc)			Strother Field Industrial Park
7a. Congressional District / Applicant			4
7b. Congressional District / Project			4
8. Type of change		Increase dollars	\$ -
		Decrease dollars	\$ -
9. Proposed Funding			
SRF Loan 9a.	\$ 1,231,250	10. Project Start Date	
Applicant 9b.	\$ -	08/01/06	
CDBG 9c.	\$ -	(Estimated)	
EPA 9d.	\$ -	11. Project Duration	
EDA 9e.	\$ -	8	
Other 9f.	\$ -	(Months)	
Total	\$ 1,231,250	12. Date Submitted	
		02/01/06	
		(To KDHE)	
13. Requested Loan Repayment Period (Must not be over 20 years)			
20 years			
14. The applicant certifies that: To the best of my knowledge and belief, data in this pre-application / application is true and correct, the document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached assurances if the assistance is approved		This notice of intent / preapplication / application was made available to the state executive order 12372 process for review on: Date 4/25/2006	
15. Certifying Representative		Signature	
Name	Shawn M. McGrew		
Title	Manager		
Mail completed application to: Kansas Department of Health and Environment Bureau of Water / Attn: Rod Geisler Municipal Programs Section, Suite 420 1000 SW Jackson Street Topeka, KS 66612-1367		If you need assistance please contact: Bill Mondl Administrative / Finance Section, Suite 420 1000 SW Jackson Street Topeka, KS 66612-1367 785-296-4049	

Narrative Description of the Project

Strother Field Airfield and Industrial Park is located in South Central Kansas on U.S. Highway 77 about mid-way between Winfield and Arkansas City.

Wastewater is currently treated in a 1940's era treatment plan that has much of the original equipment removed or in disrepair. A facility plan evaluating different methods of upgrading the treatment plant was updated by HNTB Corporation in February, 2005 and submitted to KDHE.

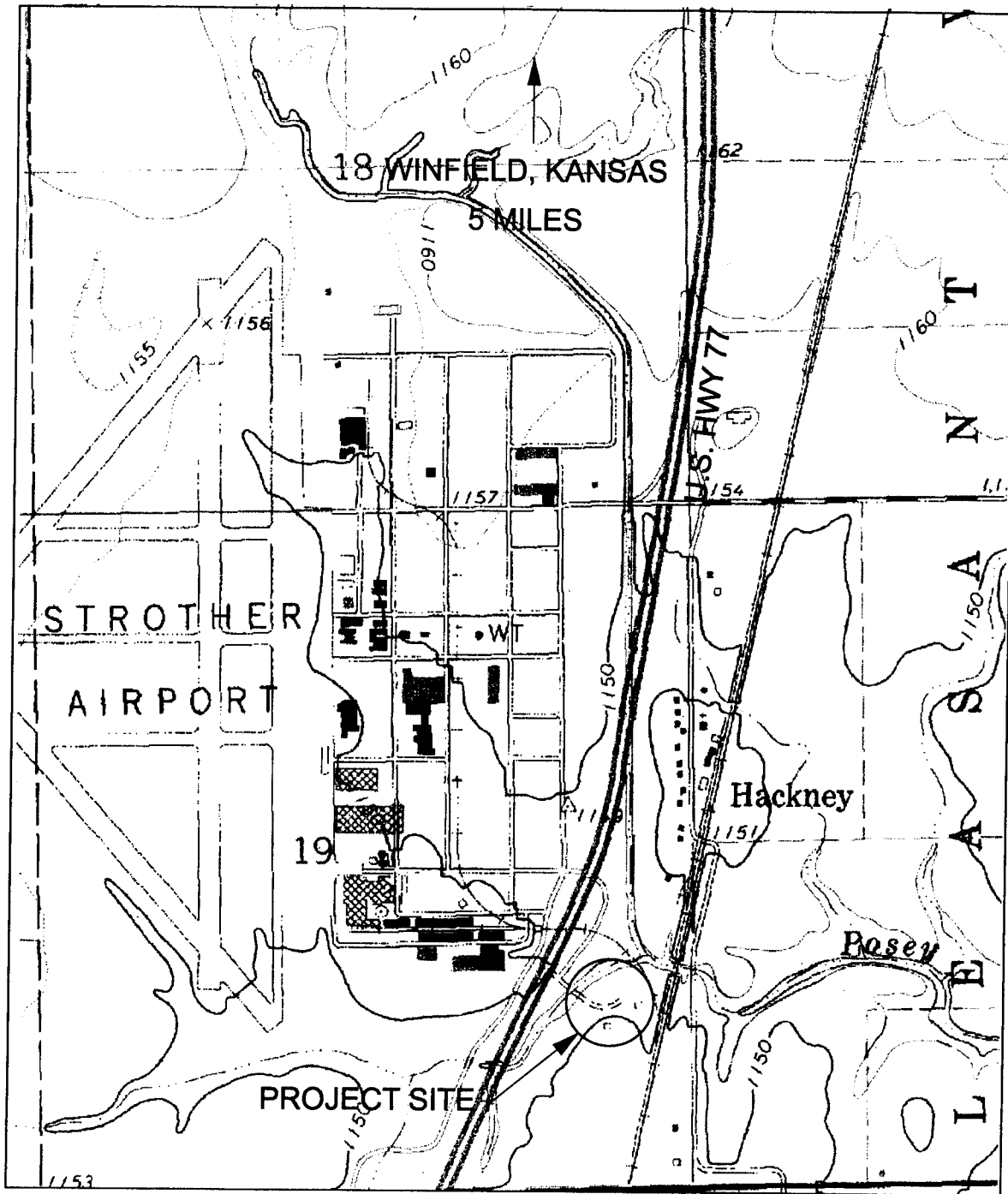
Four alternative methods of upgrading the facility were evaluated in the Facility Plan update:

1. Pump all wastewater to a regional treatment facility in Winfield.
2. Construct a new treatment plant adjacent to the existing facility.
3. Retrofit existing plant with STM Aerators (most effective).
4. Retrofit existing plant with IFAS Treatment Technology.

The current capacity of the treatment plant is limited by the length of the clarifier weirs to 61,250gpd. The current average daily flow and peak daily flows are 103,652gpd and 412,017gpd respectively. The proposed upgrades, using existing tankage, will increase the plant capacity to 300,000gpd(ave) and 600,000gpd(peak).

The proposed upgrades will include adding STM Aerators to an existing treatment tank, adding new weirs to two existing clarifier tanks, modifying a chlorination tank for the addition of an ultraviolet disinfection system, and site piping improvements. All proposed improvements will be made at the existing.

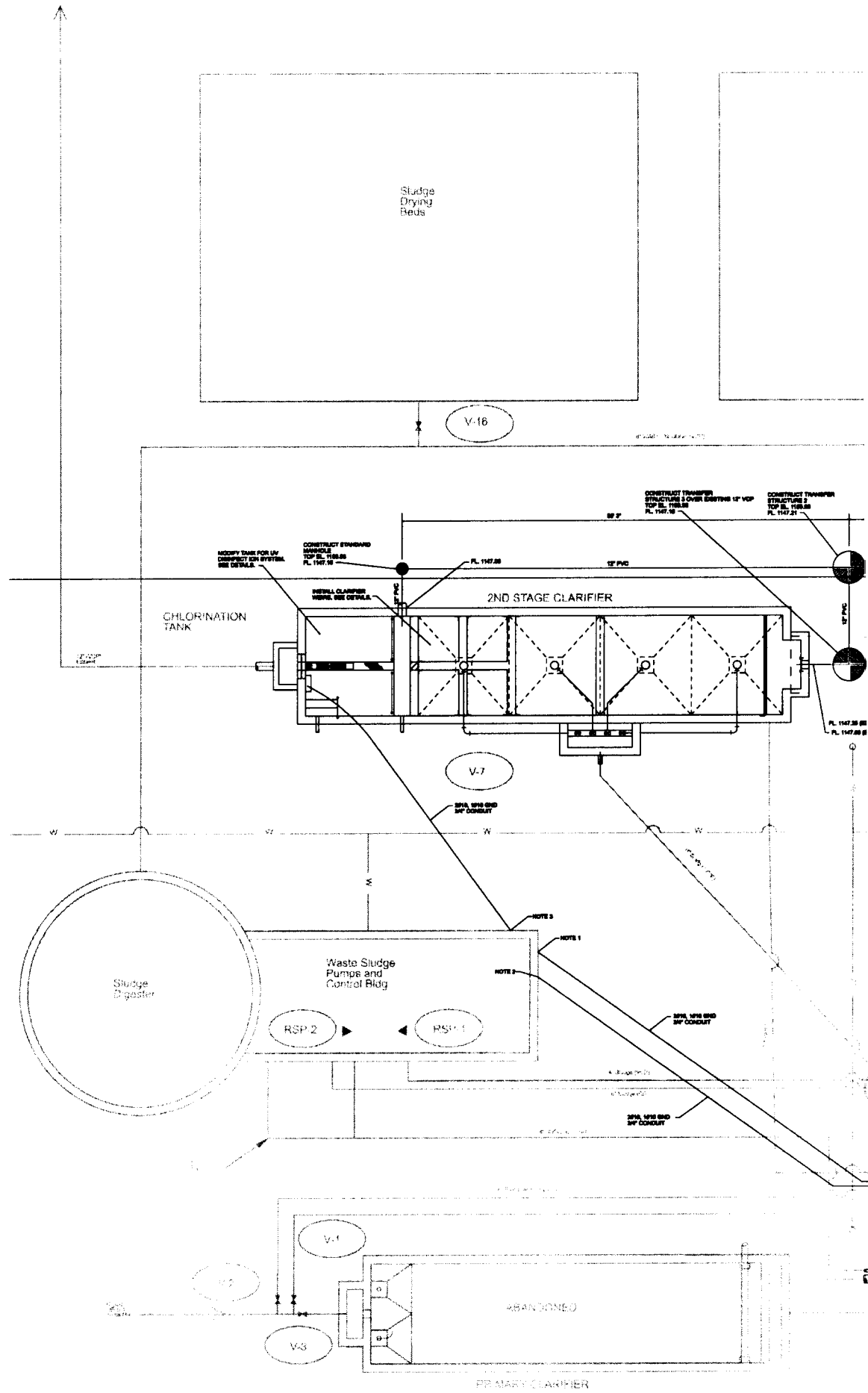
Treatment Plant Site. No easements or property will need to be acquired.



LOCATION MAP



APPROVED	DAC	DAC	DETAILED	SE
DESIGNED	CK	FAU	DETAIL	CK
QUANTITIES	DAC	TRACE	CK	-
QUALITY	CK	FAU	TRACE	CK

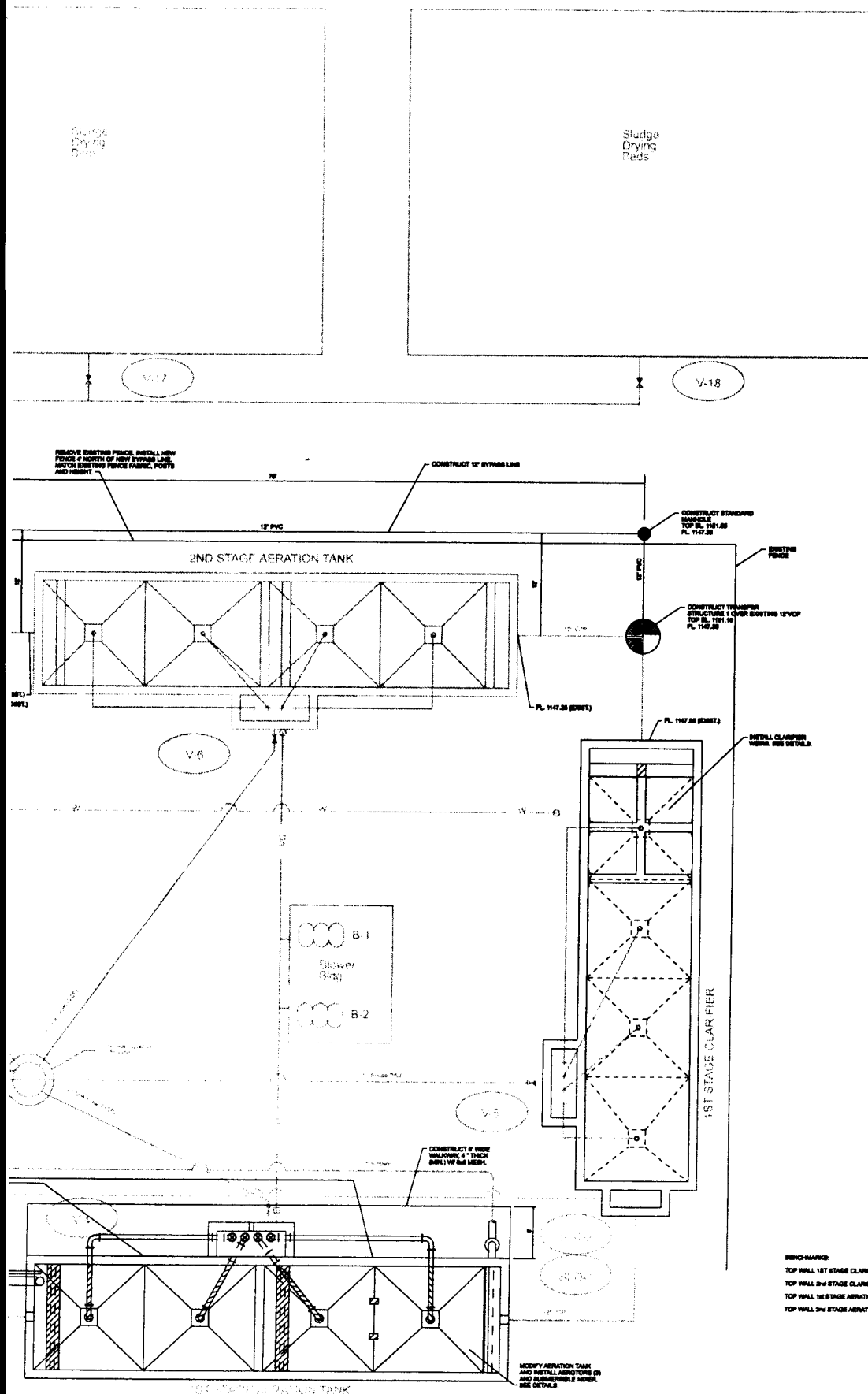


Plotted on: Tuesday April 11, 2006 2:24
 By: sethridge Plot Scale: 17.45x34.5:1 Pen Table: half pen
 Design Filename: F:\40948-Strother_Fields\Plant\02-eltg_plan.dgn

SITE PLAN

STROTHER FIELD INDUSTRIAL PARK
WINFIELD, KANSAS
JANUARY 2006

NO.	DATE	REVISIONS	BY	APP'D
4				
3				
2				
1				



- NOTES:
1. CONNECT CIRCUIT TO EXISTING PANEL. INSTALL 1P 60 AMPERENTCIRCUIT BREAKER ON 24A REVERSE TIME BREAKER.
 2. CONNECT CIRCUIT TO EXISTING PANEL. INSTALL 1P 60 AMPERENTCIRCUIT BREAKER ON 24A REVERSE TIME BREAKER.
 3. CONNECT CIRCUIT TO EXISTING PANEL. INSTALL 1P 60 AMPERENTCIRCUIT BREAKER ON 24A REVERSE TIME BREAKER.

BENCHMARK:
TOP WALL 1ST STAGE CLARIFIER 1139.75
TOP WALL 2ND STAGE CLARIFIER 1138.25
TOP WALL 1ST STAGE AERATION TANK 1151.00
TOP WALL 2ND STAGE AERATION TANK 1151.00

SCALE= 1/8" = 1'-0"

Project Budget Summary

Estimated Cost (STM Aerators)

Treatment process equipment, installation and tank modifications	\$525,000
Clarifier Modifications and Piping	\$226,250
UV Equipment and Channel Modifications	<u>\$137,500</u>
Estimated Construction Cost	\$888,750
Engineering, Inspection, Legal Fiscal, Administration	<u>\$266,625</u>
Estimated Project Cost	\$1,155,375
Reserve Account	<u>\$75,875</u>
SRF Loan Amount	\$1,231,250
Estimated Annual P&I (2.75% for 20 years)	\$80,856