

Purchase Public Service Corporation

**P.O. Box 5100
Mayfield, Kentucky 42066
270/247-7171**

RECEIVED

AUG 20 2008

PUBLIC SERVICE
COMMISSION

August 18, 2008

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PUBLIC SERVICE
COMMISSION

Ms. Stephanie Stumbo, Executive Director
Kentucky Public Service Commission
P.O. Box 165
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

Dear Ms. Stumbo:

2008-346

Enclosed please find the Purchase Public Service Corporation's request for a Certificate of Public Convenience and Necessity for the construction of a wastewater lagoon treatment system for the Holifield Heights subdivision in Graves County.

Please feel free to contact me at 270/251-6126 or mark.davis@purchaseadd.org if you have questions.

Sincerely,

Mark Davis

Mark Davis

**Purchase Public Service Corporation
Application for a Certificate of Public Convenience and Necessity – Wastewater
Treatment Lagoon Construction**

807 KAR 5:001: Section 8(1)

Purchase Public Service Corporation
P.O. Box 5100
1002 Medical Drive
Mayfield, KY 42066
270/247-7171 phone
270/251-6110 fax

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PUBLIC SERVICE
COMMISSION

KRS 278.020 requires a utility beginning construction to obtain a Certificate of Public Convenience and Necessity.

807 KAR 5:001: Section 8(2)

11 copies enclosed

807 KAR 5:001: Section 8(3)

PPSC Articles of Incorporation enclosed

807 KAR 5:001: Section 9(2)(a)

The wastewater treatment package plant serving the Holifield Height subdivision was destroyed in an auto accident and is not functioning. PPSC is spending an average of \$4,000 per month to have the waste hauled to a municipal treatment facility. It is imperative that this project move forward immediately or the Corporation will be bankrupt in early 2009. PPSC proposes to replace the package plant with a lagoon treatment system regulated by the Purchase District Health Department and the Kentucky Public Service Commission.

807 KAR 5:001: Section 9(2) (b)

There are no franchises associated with this project.

807 KAR 5:001: Section 9(2)(c)

Please see enclosed Technical Specifications.

807 KAR 5:001: Section 9(2)(d)

Please see enclosed location map

807 KAR 5:001: Section 9(2)(e)

The 2008 Kentucky General Assembly awarded the Graves County Fiscal Court a \$70,000 grant as described in HB 608 to complete this project. The Fiscal Court has agreed to provide funding for the balance of the project.

807 KAR 5:001: Section 9(2)(f)

**Holifield Heights Subdivision
Estimated Lagoon Operating Annual Budget**

Mowing	\$800
Lift station electricity	\$480
Septic tank clean out	\$600
Capital replacement	\$300
Operation/maintenance (Mayfield Electric & Water Systems)	<u>\$1,400</u>
 TOTAL	 \$3,580

807 KAR 5:001: Section 3(1)(a)

PPSC is a publicly owned non profit corporation established for the purpose of ensuring proper operation of neglected utility systems in the region. The reduced operating costs of the new facility will insure continuity of sewer service.

807 KAR 5:001: Section 3(1)(b)

This project is being undertaken with the full knowledge of the Kentucky Division of Water Paducah Regional Office however the Purchase District Health Department has responsibility for regulating this type of facility at the local level.

807 KAR 5:001: Section 3(1)(c)

Please see the detailed map of the lagoon treatment system.

807 KAR 5:001: Section 3(1)(d)

**Purchase Public Service Corporation
Holifield Heights Lagoon Project Estimate**

Holly Beadles/Robinson property	\$12,400	actual
Dan & Fredia Cunningham property	\$ 5,900	actual
Purchase District Health Department	\$ 880	estimate
Demolition/Construction	\$69,500	bid not awarded
Professional (PE & survey)	<u>\$ 7,000</u>	estimate
 TOTAL	 \$95,680	

807 KAR 5:001: Section 3(1)(e)

Please see enclosed financial exhibit

807 KAR 5:001: Section 3(1)(f)

This project is being funded with State and Local grant funds therefore it does not include financing.

807 KAR 5:001: Section 3(1)(g)

**Holifield Heights Subdivision
Estimated Lagoon Operating Annual Budget**

Mowing	\$800
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Septic tank clean out	\$600
Capital replacement	\$300
Operation/maintenance (Mayfield Electric & Water Systems)	<u>\$1,400</u>
 TOTAL	 \$3,580

807 KAR 5:001: Section 3(1)(h)

This facility serves 10 residential customers and no additional customers are anticipated.

807 KAR 5:001: Section 3(1)(i)

The applicant is a public, non profit corporation with and is tax exempt.

807 KAR 5:001: Section 3(1)(j)

A depreciation schedule was not prepared because this project is being funded with grant funds.

807 KAR 5:001: Section 3(1)(k)

The current PSC approved rate is \$29.25 per month and if all revenues are collected would generate \$3,510 per year. PPSC is working with PSC staff in an effort to establish a rate.

807 KAR 5:001: Section 3(1)(l)

The Purchase Area Development District provides administrative staff for the Purchase Public Service Corporation. PPSC contracts with Mayfield Water & Electric Systems for operation of all its Graves County treatment systems.

807 KAR 5:001: Section 3(1)(m)

PPSC is working with PSC staff to establish a rate for operation of the new system.

Purchase Public Service Corporation

**Application for a Certificate of Public Convenience and Necessity – Wastewater
Treatment Lagoon Construction**

807 KAR 5:001: Section 8(3)

Articles of Incorporation

RECEIVED AND FILED

DATE JAN 12 1989

TIME 11:10am

AMOUNT \$8.00

ARTICLES OF INCORPORATION
OF
PURCHASE PUBLIC SERVICE CORPORATION

BREMER EHRLER
SECRETARY OF STATE
COMMONWEALTH OF KENTUCKY

BY TS

This is to certify that we, the undersigned, all being of full legal age, do hereby associate ourselves for the purpose of forming a non-profit corporation under and by virtue of the laws of the State of Kentucky and Kentucky Revised Statutes 273.161-273.400, and further certify that:

ARTICLES

- A. The name of the Corporation is PURCHASE PUBLIC SERVICE CORPORATION referred to as "Corporation".
- B. The existence of the Corporation will be perpetual.
- C. The principal offices of the Corporation will be located at the offices of the Purchase Area Development District, P.O. Box 588, Highway 45N, Mayfield, KY 42066.
- D. The resident agent of the Corporation is Henry Hodges, whose principal post office address is P.O. Box 588, Highway 45 N, Mayfield, KY 42066.

ARTICLE II

The purpose for which the Corporation is formed, and the business and objects to be carried on and promoted by it, are as follows:

A. To provide for the proper and orderly operation, maintenance, expansion, and construction of infrastructure facilities throughout the eight-county Purchase area. These shall include, but not be limited to, water and wastewater treatment and distribution facilities; solid waste management, handling, and disposal facilities; water resources projects; flood control projects; gas or electric utilities; or any other public utility or public service project which the corporation finds would enhance the welfare of the citizens of the region.

B. The Corporation is irrevocably dedicated to and operated for non-profit purposes; and no part of the income or assets of the Corporation shall be distributed to, nor inure to the benefit of any individual.

ARTICLE III

The Corporation shall have all of the powers granted by KRS.273.171, as amended, and more specifically:

A. Subject to the provisions of KRS 273.383, to purchase, take, receive, lease, take by gift, devise or bequest, or otherwise acquire, own, hold, improve, use and otherwise deal in and with real or personal property, or any interest therein, wherever situated.

B. To sell, convey, mortgage, pledge, lease, exchange, transfer and otherwise dispose of all or any part of its property and assets.

C. To purchase, take, receive, subscribe for, or otherwise acquire, own, hold, vote, use, employ, sell, mortgage, lend, pledge, or otherwise dispose of, and otherwise use and deal in and with, shares or other interests in, or obligations of, other domestic or foreign corporations, whether for profit or not for profit, associations, partnerships or individuals, or direct or indirect obligations of the United States, or of any other government, state, territory, governmental district or municipality or of any instrumentality thereof.

D. To make contracts and incur liabilities, borrow money at such rates of interest as the corporation may determine, issue its notes, bonds, and other obligations, and secure any of its obligations by mortgage or pledge of all or any of its property, franchises and income.

E. To conduct its affairs, carry on its operations, and have offices and exercise the powers granted by KRS 273.161 to 273.390 in the Kentucky counties of Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, Marshall, and McCracken.

F. To elect or appoint officers and agents of the corporation, who may be directors or members, and define their duties and fix their compensation.

G. To make and alter bylaws, not inconsistent with its articles of incorporation or with the laws of this state, for the administration and regulation of the affairs of the corporation.

H. To indemnify any director or officer or former director or officer of the corporation, or any person who may have served at its request as a director or officer of another corporation in which it owns shares of capital stock or of which it is a creditor, against expenses actually and reasonably incurred by him in connection with the defense of any action, suit or proceeding, civil or criminal, in which he is made a party by reason of being or having been such director or officer, except in relation to matters as to which he shall be adjudged in such action, suit or proceeding to be liable for negligence or misconduct in the performance of duty to the corporation; and to make any other indemnification that shall be authorized by the articles of incorporation or bylaws, or resolution adopted after notice to the members entitled to vote.

I. To have and exercise all powers necessary or convenient to effect any or all of the purposes for which the corporation is organized.

J. To set, charge, and collect necessary fees for services rendered in carrying out the purposes for which the Corporation is organized.

ARTICLE IV

In the event of the dissolution of the Corporation or the winding up of its affairs, or other liquidation of its assets, the Corporation's property shall not be conveyed to an organization created or operated for profit or to any individual for less than the fair market value of such property, and all assets remaining after the payment of the Corporation's debts shall be conveyed or distributed only to an organization or organizations created and operated for nonprofit purposes similar to those of the Corporation other than one created for religious purposes.

ARTICLE V

The directors of the corporation shall be eliminated from any personal liability for monetary damages for breach of his duties as a director, except in the following cases:

- a. For any transaction in which the director's personal financial interest is in conflict with the financial interests of the corporation;
- b. For acts or omissions not in good faith or which involve intentional misconduct or are known to the director to be a violation of law; or
- c. For any transaction from which the director derived an improper benefit.

ARTICLE VI

The number of Directors of the Corporation shall be no less than four (4) nor more than such number as prescribed in the Bylaws of the Corporation. The Directors of the Corporation must at all times be members of the Corporation, and such Directors shall serve without compensation.

The original Directors, and the terms for each are set below:

NAME	ADDRESS	TERM
R. K. Kelley	P.O. Box 218 Wickliffe, KY 42087	3 Year
John Harris	6445 Hinkleville Rd. Paducah, KY 42001	3 Year
Virgil Gilliam	301 Parker Mayfield, KY 42066	3 Year
Warren Owens	Rt. 1 Bardwell, KY 42023	3 Year

Membership in the Corporation shall, at all times, be established by appointment by the County Judge/Executives of each of the eight Purchase counties and limited to individuals who are residents of the eight-county Jackson-Purchase. Should local residency cease to exist or the appointment withdrawn, then such shall constitute automatic resignation as a member and Director of the Corporation.

The officers of the Corporation, as provided by the By-Laws of the Corporation, shall be elected by the directors of the Corporation, in the manner therein set out, and shall serve until their successors are elected and have qualified. The directors shall elect the regular officers of the Corporation at the annual meeting, for terms of one year. The secretary and treasurer may be one and the same person.

The annual meeting shall be held on the second Monday in May of each year.

ARTICLE VII

By-Laws of the Corporation may be adopted by the directors at any regular or any special meeting called for that purpose, so long as they are not inconsistent with the provisions of these Articles.

Signed by the incorporators this 9th day of January, 1989.

NAMES

ADDRESS

R.K. Kelley P.O. Box 218, Wickliffe, KY 42087

John R. Harris 6445 Hinkleville Rd., Paducah, KY 42001

Virgil Gilliam 301 Parker, Mayfield, KY 42066

Warren Owens Rt. 1, Bardwell, KY 42023

STATE OF KENTUCKY-AT-LARGE

COUNTY OF FULTON

I, the undersigned, a notary public in and for the state and county aforesaid, do hereby certify that the foregoing Articles of Incorporation were produced before me in my state and county and were duly signed and acknowledged before me by R.K. Kelley, John R. Harris, Virgil Gilliam, & Warren Owens, the incorporators therein, to be their free act and deed for the purposes therein set forth, on this 9th day of January, 1989.

My Commission Expires:

Feb. 3, 1990

Donald S. Elias
Notary Public



Purchase Public Service Corporation

**Application for a Certificate of Public Convenience and Necessity – Wastewater
Treatment Lagoon Construction**

807 KAR 5:001: Section 9(2) (c)

Technical Specifications

TECHNICAL SPECIFICATIONS
ON-SITE WASTEWATER SYSTEMS
HOLIFIELD HEIGHTS
PURCHASE PUBLIC SERVICE CORPORATION

L-1. GENERAL

- 1.01. SCOPE.** The following Specifications shall control the materials and construction for an onsite wastewater system and all related appurtenances at Holifield Heights. All materials shall be new and from a reliable manufacturer. The Contractor shall be responsible for the safe handling, storage, installation and testing. The Contractor shall be a currently "certified installer" with the State of Kentucky to perform per the current regulations.

The scope of work includes providing the materials, equipment, labor and supervision to install the onsite wastewater system as described in the following specifications and on the attached drawings. All aspects of the project shall be in compliance with the latest revision of the applicable Kentucky regulations for On-site Sewage Disposal Systems (including but not limited to 902 KAR 10:081 and 902 KAR 10:085) and the local health department.

Should any discrepancies between the Specifications and site conditions or any errors and omissions in the Specifications be discovered, they will be reported immediately to the Engineer, who will promptly correct such errors and omissions in writing. Any work performed by the Contractor after the discovery shall be done at his own risk.

All original or duplicated Specifications and other data prepared by the Engineer shall remain the property of the Engineer. They shall not be reused for other work, but shall be returned to the Engineer upon completion of the work.

1.02 REVISIONS OF STANDARDS

When reference is made to a Standard Specification (ASTM, AWWA, etc.) the specification referred to shall be understood to mean the latest revision of said specification as amended at the time of Notice to Bidders, except as noted on the Plans or in the Special Provisions.

1.03 CONTRACTOR'S RESPONSIBILITIES.

- a. The Contractor shall obtain all necessary permits and approvals. All public utilities must be contacted by the Contractor to verify the location of all underground facilities. All costs arising from applicable permits as well as any damages to public utilities shall be borne by the Contractor.
- b. The Contractor shall be responsible for all materials, workmanship and backfill for a period of one (1) year from the date of final acceptance from the Engineer.
- c. No work shall be performed on public right-of-ways until after the proper warning and/or construction signs, barriers, etc. have been erected, in accordance with the State of Kentucky Manual of Uniform Traffic Control Systems.
- d. The Contractor shall be responsible for supplying the Engineer with a set of "As-Built" plans showing the distribution line depth, size and location, pretreatment septic tank location and elevations, lagoon elevations and dimensions, and overflow lateral line depth, size and location.

1.04 SITE SPECIFICS.

The lagoon for the on-site system shall be sized for a total of 4,800 gallons per day. The existing gravity collection system shall be extended and will flow to four (4) each 1,250 gallon septic tanks. The effluent from the tanks will gravity to a lift station that will in turn pump to a new lagoon. The lagoon will have a minimum of 24,000 square feet of surface area. The overflow lateral field shall have a minimum of 250 feet of perforated pipe in 6 ft. wide gravel trenches. The existing mechanical waste water treatment plant shall be removed under a separate contract.

1.05 ENGINEER'S RESPONSIBILITY AND AUTHORITY

All work shall be done under the general supervision of the Engineer. The Engineer will decide any and all questions arising as to the quality and acceptability of the materials furnished, work performed, rate of progress of work and interpretation of the Specifications and Drawings. All claims by the Contractor shall be presented to the Engineer for a decision made in writing in a reasonable amount of time. All decisions of the Engineer shall be final except in cases where time and/or financial considerations are involved, which will be subject to consultation with the Owner.

The Engineer has the authority to suspend the work at any time, wholly or in part., for such period or periods, as he deems necessary, due to unsuitable weather, or other conditions considered unfavorable for the continuance of the work, or failure on the part of the Contractor to meet the intent of the Specifications. The Contractor cannot suspend work without the Engineer's permission.

The Engineer may inspect the materials and workmanship at any time to determine if the intent of the Specifications is being met. The Engineer shall have full access to all parts of the work and the Contractor shall furnish any information or assistance as is required to make a complete and detailed inspection. The Engineer may request the Contractor remove or uncover any portion of finished work. After examination, the Contractor shall restore said portions of the work to the standard required by the Specifications. Should the exposed work prove acceptable, the in covering or removing, and replacing of the covering or making good of the parts removed will be paid for as extra work. Should the exposed or examined work prove unacceptable, the Contractor is responsible for all costs associated with making the repairs.

1.06 DEFECTIVE MATERIAL AND WORKMANSHIP

Materials not in accordance with the specifications or defective work may be condemned by the Owner at any time before final approval and acceptance by the Owner. Failure by the Owner to condemn defective work shall not be construed as acceptance of the same.

1.07 ACCIDENT PREVENTION

The Contractor shall exercise proper precautions at all times for the protection of persons and property. The safety provisions of all applicable laws, building and construction codes, and the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America, Inc., as well as all OSHA requirements shall be observed. In addition, the Contractor shall take or cause other safety measures that the Owner deems reasonable and necessary. Machinery, equipment, and all hazards shall be guarded in accordance with the manufacturer's recommendations or per the provisions stated in the "Manual of Accident Prevention in Construction". Contractor will furnish a safety policy to the Owner prior to beginning the project. The safety policy shall include, but is not limited to, confined space entry, trenching and shoring, and any other applicable safety precautions.

1.08 LOCATION AND PROTECTION OF EXISTING UTILITIES, PROPERTY, ETC.

The Contractor shall avoid damages as a result of their operations to existing sidewalks, streets, pavement, utilities, adjoining property, the work of other Contractors and the property of the Owner and others, and shall at their own expense completely repair any damage thereto caused by their operations.

Before any excavation commences all utilities shall be located in the work area in accordance with applicable government rules, laws, and regulations. Utilities can be contacted for location requests by calling B.U.D. at 1-800-752-6007. B.U.D. representatives request a minimum of three (3) days lead time for notification requests. Be aware that not all utilities are members of B.U.D.

The Contractor shall take appropriate measures to insure all utilities locations are verified and protected. Expose utilities located within the required work area limits using hand tools. The utilities shall be properly supported as required to prevent any damage during construction. The Contractor shall

immediately notify the utility owner any time damage occurs. Repairs to any damaged utilities in accordance with the utility company procedures shall be at no extra cost to the Owner. Omission of specific location of utilities or obstruction on drawings provided will not constitute basis of claims for extra cost for damage to said utilities, or to any other property or equipment.

1.09 SANITARY FACILITIES

The Contractor shall furnish, install, and maintain ample sanitary facilities for the workmen. A sufficient number of enclosed temporary toilets shall be conveniently located as required by the sanitary codes of the State and Local Government. Drinking water shall be provided from an approved source and served safe and fresh from single service containers or satisfactory types of sanitary drinking stands or fountains. All facilities and services shall be furnished and maintained in strict accordance with existing and governing health regulations.

1.10 SUBCONTRACTORS

a. The Contractor may utilize the services of a specialty Subcontractor on those parts of the work which, under normal contractor practices, are performed by specialty Subcontractors.

b. The Contractor shall not award work to a Subcontractor(s) in excess of fifty (50%) of the contract price, without prior written approval of the Owner.

c. The Contractor shall be fully responsible to the Owner for the acts and omissions of his Subcontractors, and of persons either directly or indirectly employed by them.

d. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind Subcontractors to the Contractor by the terms of the Contract documents insofar as applicable to the work of the Subcontractors and to give the Contractor the same power as regards to terminating any subcontract that the Owner may exercise over the Contractor under provision of the Contract Documents.

1.11 FINAL INSPECTION

In addition to normal inspections, which may be conducted at any time during the construction, the Owner or their designated representative will make a Final Inspection. The Final Inspection shall be conducted following all required installation and testing are completed and prior to acceptance of any unit for maintenance by the Owner. All sanitary manholes or access openings will be opened and all facilities shall be cleaned of all debris, mud or other foreign material.

1.12 GUARANTY PERIOD

Neither the final payment nor any provision in the Contract nor partial or entire use of the improvements covered in the this Contract by the Owner shall

constitute an acceptance of work not performed in accordance with the Contract or relieve the Contractor of liability with respect to and express warranties or responsibility for faulty materials or workmanship. The Contractor shall promptly remedy any defects in the work and pay for any damage to other work resulting there from which shall appear within twelve (12) months from the date of the written final acceptance of the work. The Owner will give notice of defective materials and work within ten (10) days of their discovery. In the event the Contractor should fail to make such repairs, adjustment, or other work that may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. The Performance Bond shall remain full force and effect throughout the guarantee period.

1.13 PROGRESS AND COMPLETION OF WORK

- a. The Owner shall give written Notice to Proceed to the Contractor after execution of the Contract. The Contractor shall begin work immediately and pursue it continuously (unless otherwise directed in writing by the Owner) to insure the completion of work in the time stated in the Agreement.
- b. The Contractor shall complete, in an acceptable manner, all of the work contracted for in the time stated in the Agreement. Computation of Contract time shall be commence on the seventh (7th) day following the date of mailing of the Notice to Proceed and every calendar day following, except as herein provided, shall be counted as a working day.
- c. The Contractor shall submit, if requested by the Engineer, schedules which show the order in which the Contractor proposes to carry on the work, dates certain portions of work will be started, anticipated monthly payments to become due the Contractor, and estimated dates of completion.
- d. The Owner, as the need arises, may order changes in the work through additions, deletions or modifications without invalidating the Contract. Compensation and time of completion affected by the change shall be adjusted at the time of executing the Change Order.
- e. New and unforeseen items of work found to be necessary shall be classed as extra work. The Contractor shall do such extra work and furnish such materials as may be required for the proper completion or construction of the whole work contemplated upon written order by the Owner as approved by the Engineer. In absence of such written order, no claim for work will be considered. Extra work will be performed in accordance with the Specifications where applicable and work not covered in the Specifications shall be performed in accordance with the best practice as approved by the Engineer. Extra work required in an emergency to protect life and property shall be performed by the Contractor as required.
- f. Any delay beyond the Contractor's control as caused by an Act of God, or act or omission on the part of the Owner, or by strikes, lockouts, fires, etc., may entitle the Contractor to an extension of time in which to complete the work as determined by the Engineer. The Contractor shall request in writing within ten

(10) days of such occurrence to the Engineer of the cause of such delay and his intention to request an extension of Contract time.

1.14 PAYMENT

a. The Contractor may submit no more than once per month a Request for Payment for work completed and materials delivered and stored on site. Payment for materials stored shall be conditioned upon evidence submitted by the Contractor to establish the Owner's title to said materials. Each Request for Payment will be evaluated by the Engineer to determine if the amount is consistent with the percentage of work completed. Each Request for Payment shall be computed from the actual work completed and materials provided less ten percent (10%) to be retained until final completion and acceptance of the work and less previous payments.

b. At any time during construction, at the request of the Owner, the Contractor shall furnish appropriate affidavits of payment and waivers and release of liens from any Subcontractor or material suppliers to the extent of the payment made for labor or materials furnished to the project. These shall be obtained upon form approved by the Owner.

c. Within thirty (30) days from the date of a Request for Payment the Owner shall:

1. Pay the Request for Payment, or
2. Pay an amended amount due the Contractor, informing the Contractor in writing of the reasons for paying the amended amount, or
3. Withhold payment informing the Contractor of the reasons for withholding payment.

d. The Owner has the right to withhold payment in part or in whole to the extent necessary to protect themselves from loss on account of any of the following causes discovered subsequent to approval of a Request for Payment by the Engineer:

1. Defective work.
2. Evidence indicating the probable filing of claims by other parties against the Contractor.
3. Failure of the Contractor to make payments to Subcontractor(s), materials supplier(s), and labor.
4. Damage to another Contractor.

e. Payments for extra work shall be processed in accordance with the same provisions as set forth for the original Contract. The Contractor shall submit itemized estimate sheets showing all labor and materials to the Engineer. The

Owner's order for extra work shall include any modification to the Contract time and one of the following methods of payment:

1. A lump sum based on the Contractor's estimate, accepted by the Owner and approved by the Engineer.
2. Actual cost plus a fixed fee, not to exceed fifteen percent (15%) of the cost of the work. The cost of the work includes, but is not limited to, labor, materials entering permanently into the work, rental of equipment, power and consumable supplies, insurance, etc.
3. A negotiated supplemental agreement between the Contractor and Owner.

f. Acceptance of Final Payment - When the Contractor has completed the work in accordance with the terms of the Contract, the Engineer will certify his acceptance to the Owner and their approval of the Contractor's amount, plus all approved additions, less all approved deductions, and less previous payments made. The Contractor must furnish evidence that all debts are fully paid for labor, materials and equipment incurred in connection with the work. The Owner shall then accept the work and release the Contractor, except as to the provisions of the Performance Bond and Labor and Materials Payment Bond, any legal rights of the Owner, required guarantees, and correction of defective work after final payment, and shall authorize payment of the Contractor's final Request for Payment.

g. The Contract shall be considered complete when all work has been finished, the final inspections made by the Engineer, and the Project accepted in writing by the Owner. The Contractor's responsibility shall then cease, except as set forth in the Performance Bond, as required by the guaranty period and except as to the Labor and Materials Payment Bond, which shall continue in full force and effect for a period of twelve (12) months after the last labor is performed or materials are furnished to the project.

h. The making of the final Request for Payment by the Engineer and the making of the final payment by the Owner to the Contractor shall not relieve the Contractor of responsibility for faulty materials or workmanship. The Owner shall promptly give notice of faulty materials or workmanship and the Contractor shall promptly replace any such defects discovered within one (1) year from the date of written acceptance of the work.

L-2. MATERIALS

- 2.01. NONPERFORATED PIPE – GRAVITY FLOW USAGE.** PVC plastic nonperforated pipe shall conform to the latest ASTM Standards (ASTM-D3034 and D3033) and shall be SDR 35. This pipe shall be used to connect the septic tanks to the user and distribution to the lagoon. All nonperforated pipe shall have the internal diameter as indicated on the plans (minimum of four (4) inches). Each standard section of pipe as supplied by the manufacturer shall be plainly marked, embossed, or engraved showing the manufacturer's name or hallmark, the SDR 35 ASTM D3034 or D3033 designation, and the type of pipe material.
- 2.02. PERFORATED PIPE – GRAVITY FLOW USAGE.** All perforated pipe used for gravity flow carriage and distribution of effluent within lateral trenches and other such applications shall meet 1,500 lb. crush ASTM-F810 standards for rigid piping and ASTM-F405 for corrugated semi-rigid piping. Each standard section of pipe as supplied by the manufacturer shall be plainly marked, embossed, or engraved showing the manufacturer's name or hallmark, the type of pipe material, and showing the product meets the applicable ASTM standards and a bearing load of 1,500 lbs. per foot. In addition, a painted or clearly marked line or spot shall be marked on each side to denote the top of the pipe. All four (4) inch or greater pipe shall have at least two (2) rows of holes five-sixteenths (5/16) to one-half (1/2) inch in diameter, evenly spaced and placed within an arc of 120 degrees on the bottom of the pipe. If three (3) holes are used, the center row shall be directly opposite the top marking. Spacing of the holes longitudinally shall be between three (3) to twelve (12) inches on center.
- 2.03. SANITARY SEWER FORCE MAIN.** Sanitary sewer force main shall be PVC and conform to the requirements of ANSI/AWWA C900-89, Pressure Class 200.
- a. Bends in the sanitary sewer force main shall be by restrained joint ductile iron fitting used in accordance with manufacturer's recommendations. Sanitary sewer force main shall have a locating tracer wire installed with it. Tracer wire to be insulated THHN, 12 gauge copper wire. All wire shall be joined by using wire clamps. All connections shall be sealed and taped to create a watertight connection. Tracer wire shall be secured to the top of the main by tape a minimum of 3 times in each standard length of pipe. Tracer with shall be looped to the top of valve boxes for access and at the ends for conductivity.
- b. Sanitary sewer force mains that cross water mains shall be laid at a vertical distance of eighteen (18) inches between the outside of the water main and outside of the sewer. The force main shall always be below the water line.
- c. Buried gate valves on force mains sized 2" to 12" shall be Mueller Gate Vales, mechanical joint, resilient seated wedge disk, or equal. Valve shaft shall have an "O" ring seal with a 2" operating nut and shall open in a counter-clockwise direction. Buried gate valves shall have two piece valve boxes with a 24" screw type bottom section and 16" screw type top section with a lid marked "SEWER".

2.04 MANHOLES MATERIALS. Precast Concrete: Manholes shall be constructed of pre-cast sections and tops. All standard manholes shall have a 4 foot inside diameter unless otherwise indicated on the Plans or Special Provisions. Precast reinforced manholes and related appurtenances shall conform to the latest revision of ASTM C478. Manhole steps shall be plastic-coated steel; 1 inch square bars x 10 inches wide x 10 inches long with non-slip tread safety edges. Jointing materials for pre-cast concrete manholes shall be a plastic joint sealing compound meeting the latest Federal Specifications SS-200210, such as E-Z Stick or Zam-net plastic gasket. Bitumastic material or preformed flexible joint sealants applied in accordance with the manufacturer's recommendations may be acceptable if approved by the Engineer. Grout shall be used for patching and shall be a non-shrink, nonmetallic grout such as Sonopatch Concrete Repair Compound as manufactured by Sonneborne Building Products or approved equal.

Brick and Mortar Manholes: Repair to existing brick manholes use materials as follows:

Mortar: Mortar and plaster casting for masonry manhole units shall be two parts Portland Cement to one part Masonry Cement to six parts plaster sand mixed with the least amount of potable water necessary to provide a workable mortar.

Brick: Clay brick shall conform to ASTM C-32, Grade SS or SM. For Grade SM, the maximum amount of water absorption by 5-hour boiling shall not reach 12.0 percent for individual brick or 9.0 percent for the average of five bricks.

Waterproofing: All manholes shall be coated on the exterior with a minimum of two (2) coats of bitumastic compound. The bitumen shall consist of two coats of asphalt or coal-tar pitch, H. B. Tnemecol (Coal Tar) Series 46-465 or equal. Asphalt shall conform to the requirements of ASTM D-449. Coal-tar pitch shall conform to the requirements of ASTM D-450.

Pipe Connectors: Flexible connectors designed to create a positive watertight connections for pipes entering precast manholes shall be provided. These connectors shall be the "A-Lok" produced by A-LOK Products, Inc., or approved equal.

Interior Coating: Where indicated on the Plans or in the Special Provisions the manholes shall be lined with a one-part urethane Tnemec Series 434 Perma-Shield H2S of equal. Interior coating shall be applied prior to delivery to the construction site and be "touched-up" as required per the manufacturer's recommendations.

2.05 MANHOLE CASTINGS. General: Cast iron rings, covers and steps shall conform to the following requirements:

Iron Castings: Iron castings shall conform to ASTM A-48, Class 30, requirements. Castings shall be clean and whole, without blow or sand holes or any other defects which would reduce serviceability. Plugging or filling of holes or other defects shall not be permitted.

Parting finds and pouring gates shall be removed.

Castings shall be thoroughly cleaned and painted with two coatings of Asphaltum paint before being delivered to the site.

Manhole castings shall be cast iron having a frame of approximately 220 pounds and a solid cover of approximately 105 pounds. They shall have the name "SANITARY SEWER" cast in the lid. These shall be part No. R-1736 of the Neenah Foundry Company or approved equal.

2.06 BEDDING AGGREGATE. All beddings shall be crushed stone and applied in the manner indicated on the attached drawings. Installation of the PVC pipe shall be in accordance with ASTM D-2321 with Class I bedding.

2.07 WATER STOPS. Water stop gaskets shall be used at all manholes. The gaskets shall be a Model PSX gasket as manufactured by Press Seal Gasket Corporation, or approved equal.

2.08 FITTINGS. Piping elbows, tees, wyes, reducers, end caps, plugs, connectors, and other such fittings shall be designed and constructed for the intended use. Fittings and connectors shall be formed of materials compatible with the piping to which they are joined and meet the same standards as the piping. Mixing of pipe and fitting materials is prohibited. All joints between fittings, connectors, and/or piping shall be rigid and watertight and shall be made per the materials manufacturer's recommendations.

2.09. TRENCH FILL AND BARRIER MATERIAL. River gravel or crushed dolomitic limestone shall be used for bedding and trench fill material for gravity flow lateral lines. Foreign matter, dust, and fines shall be removed. Such material shall attain a three (3) on the Moh's Scale. Such material shall conform to the sizing standards and specifications of the Kentucky Transportation Cabinet for No. 2, No. 23 and No. 4 coarse aggregates. A size range of three-quarters (3/4) inch to two and one-half (2 1/2) inches in rough diameter shall be used.

Crushed rock, gravel, pea gravel, sand, or other such materials meeting the requirements of this section for use as trench fill or lateral bedding material shall be used, as applicable, in the construction of curtain, vertical and underdrain ground water drainage systems.

Straw or synthetic filter fabrics shall be used in all lateral trenches, beds, or ground water drainage systems to provide a barrier to the entrance of soil backfill into the bedding and trench fill.

2.10. SEPTIC TANK PRETREATMENT UNITS – PRECAST CONCRETE. All precast concrete septic tanks shall be designed and constructed so as to provide sufficient rigidity and structural strength to prevent damage due to hydrostatic water pressure and support vertical uniform loading of 150 lb./square feet on the top of the tank. A minimum end strength of 4,000 lb./square inch shall be used in the construction of the tank. The top, ends, and sides of the tank shall have a minimum thickness of two and one-half (2 1/2)

inches. The tank shall be reinforced by using a minimum reinforcing of six (6) inch No. 10 gauge welded steel reinforcing wire lapped at least six (6) inches or approved equal. All joints, seams, and other openings shall be watertight in use. At least two (2) openings shall be provided to permit maintenance of the tank. Manholes shall have a minimum dimension of ten (10) inches and a maximum of twenty-four (24) inches measured on the bottom edge of the manhole opening into the tank. Manholes shall be located on each end of the tank over the inlet and outlet structures. Manhole covers shall have provisions for being locked closed. Baffles or other suitable baffle devices shall be installed per the applicable Ky. Administrative Regulation. All tanks offered for sale or use in Kentucky shall bear by imprint, stencil, or other acceptable means of marking, the manufacturer's name, the serial number assigned to the manufacturer's plans and specifications approved by the cabinet, and the liquid or working capacity of the tank.

L-3. CONSTRUCTION

- 3.01. EXCAVATION.** Only equipment necessary to the installation of the on-site sewage disposal system shall be permitted in the designated area. Equipment travel-over and compaction shall be minimized. Excavation of the lateral field or other subsurface soil absorption system shall be restricted by the soil moisture content. If too wet, the excavation must cease.

Excavation for septic tanks and all nonperforated piping shall be done only after elevations are determined to insure a positive gradient from the outlet of the pretreatment unit to the lagoon.

Excavations for placements of all components shall be made to the necessary depth for installation and shall be dug level in undisturbed soil. If filling is required to level or raise components to the proper grade, except for lateral trenches, tamped gravel, sand or compacted soil shall be used for bedding purposes. All large stones, rocks, boulders shall be removed from the component placement excavations to prevent component damage, the cavities shall be filled with tamped gravel, sand or compacted soil.

Excavations for lateral trenches shall be a maximum of twenty-four (24) inches deep from grade. Lateral trenches shall be level.

Excavations for curtain drains or vertical drains shall be at the elevations indicated on the drawing. Curtain drain excavations shall maintain the required depths in all parts upgrade from the lowest lateral line and then be graded to drain to the surface. Vertical drain excavations shall encircle the entire soil absorption field.

Excavation of evaporation / absorption lagoons shall be made to provide uniformly level lagoon bottoms and to provide a wastewater depth below the overflow outlet of four and one-half (4 ½) feet, and a freeboard of two (2) feet. Containment berms, dikes, dams, and liners shall be constructed of Class IV soil texture and installed to provide a minimum of eighteen (18) inches separation from inside the wall and bottom of the lagoon to rock and shall be

"keyed" in to the original soil at least one (1) foot deep and two (2) feet wide at the base. Berms, dikes or dams shall be constructed on a maximum two (2) feet vertical to one (1) foot horizontal slope. The lagoon shall be enclosed with a six (6) feet high chain-link fence or equivalent open weave design with a double wide (10 feet minimum) locked access gate to prevent entrance by unauthorized persons.

- 3.02. COMPONENT INSTALLATION.** Septic tanks shall be installed level. Connections to the unit which conduct sewage or effluent, and unit joints or seams, shall be watertight. Manufacturer's recommendations for installing piping shall be followed. Manhole risers from the top of each tank's outlet manhole to finished grade shall be provided. Risers shall be a minimum of eighteen (18) inches in diameter to allow removal of the manhole lid. Each manhole riser shall be provided with a tamperproof lid.

Lateral lines for gravity distribution trenches shall be laid on a level, six (6) inch deep layer of approved trench fill material that has been carefully placed to prevent sealing of absorption surfaces from fill impact. The piping shall be leveled on the trench fill in the center of the trench and retained in place to prevent movement while additional fill is added to a point two (2) inches above the top of the lateral pipe, for a total of twelve (12) inches of fill material. A four (4) inch layer of approved barrier soil, whole straw, or a single layer of synthetic filter fabric, is then placed over the trench fill material to prevent entry of backfill soil fines.

Effluent piping to an evaporation / absorption lagoon and overflow piping to a lateral field system shall be installed as follows:

- a. Nonperforated gravity flow piping shall be laid in an excavated trench into the lagoon and anchored to a poured concrete pad, three (3) feet square and four (4) inch thick. The inlet tee shall be laid on its side.
- b. Overflow piping shall be located at a point in the lagoon farthest from the inlet apron. The upper leg of the tee shall be screened with stainless steel mesh and the lower leg extended downward to a depth of three and one-half (3 ½) feet of the lagoon bottom. The overflow piping shall be properly supported to prevent movement and breakage.
- c. Submerged piping into and out of the lagoon shall be provided with suitable water stops or leak collars with a minimum extension of twelve (12) inches on all sides of the pipe.

Curtain and vertical drains shall be installed as follows:

- a. After excavation and grading of the drain trenches to the required depth per the drawings, slotted plastic drainage pipe with slots around the entire pipe circumference shall be placed in the trench. The pipe shall be bedded in two (2) to four (4) inches of leveled rock backfill material.
- b. After bedding and grading of pipe to drain, approved trench rock fill material shall be added to a point four (4) inches below grade.

c. Barrier material approved for use in lateral trenches shall be placed over the drain fill material.

3.03. BACKFILLING. All excavations shall be completely backfilled with suitable dry material that is free from debris and large rocks. Excavated material may be used if dry and free from foreign objects. The backfill shall be compacted in 8 inch lifts (maximum). During the backfilling and tamping, care shall be taken to prevent shifting, tilting, misalignment or damage to system components, watertight joints, seams or connections. The locations of each component shall be clearly marked by staking or flagging after backfilling and prior to final grading.

Backfilling of lateral trenches or drainage trenches shall be accomplished with minimal compaction of soil fill. Soil fill shall be left mounded four (4) to six (6) inches above grade over trenches to allow for settling.

Backfilling shall not be done until the system is inspected and approved to that point of construction by a certified inspector.

Finish grading over the on-site sewage system shall be performed to minimize compaction. Grading shall be restricted to work necessary to provide positive surface drainage away from the system.

3.04. SEEDING. Seeding shall be completed within two (2) weeks after completion of the final site preparation. If weather conditions do not permit seeding during this period, it shall be completed as soon as soil and moisture conditions are favorable, as determined by the Engineer.

a. The following materials shall be applied to the disturbed areas of construction:

<u>Materials</u>	<u>Quantity</u>
Agricultural Limestone	4 Tons per Acre
Fertilizer (10-10-10)	1 Ton per Acre
Seed - KY 31 Fescue	50 lb. per Acre
Seed - Perennial Rye	15 lb. per Acre
Mulch (Wheat Straw)	1.5 Tons per Acre

b. The disturbed area shall be pulverized to provide a good seedbed. The seeding shall immediately follow the preparation of the seedbed and application of the fertilizer and lime. Mechanical spreaders shall be utilized to uniformly distribute the seed. Mulch shall be applied over all disturbed areas to prevent erosion. The entire area shall be cleaned of all surplus dirt, material, straw, etc., and left in a neat and pleasing appearance.

3.05. CLEANUP. The contractor shall be responsible for all cleanup work incidental to the installation of the on-site sewage disposal system.

L-4. SYSTEM INSTALLATION INSPECTION

- 4.01. SCOPE.** Every on-site sewage disposal system installed, constructed, altered or repaired shall be inspected by a State certified inspector. The certified installer shall complete an installer's affidavit recording all grade shot readings of all excavation work and certify by his signature that all applicable regulations have been adhered to.

A certified inspector shall inspect the system prior to backfilling. Examinations shall include system component's type, size or capacity, approved status, materials and connections. The installation shall be examined for proper placement grade or level. Elevations shall be obtained for trenches and lagoon bottom grade. An approved system shall be backfilled in accordance with the applicable regulations.

- 4.02. RESPONSIBILITIES.** The construction, operation, and maintenance of the on-site sewage disposal system shall be the responsibility of the owner, developer, certified installer or user of the system as applicable.

L-5 LIFT STATIONS LS#1.

- 5.01** A job site built duplex grinder pump station shall be furnished and installed as shown on the attached plans. Each pump shall be a Model N139 Non-automatic effluent pump as manufactured by the Zoeller Pump Company, or equal. All pumps must be UL listed.

- A. General: The pumps shall be submersible effluent pumps designed to handle septic tank effluent and be capable of passing ½" spherical solids.
- B. Motors: Pump motors shall be of the sealed submersible type rated 0.5 horsepower. The motor voltage is 115 volts, single phase, 60 Hz.
- C. Pump Impeller: The pump impeller shall be an engineered, glass filled impeller with a metal insert of a vortex non-clog design.
- D. Pump and Motor Castings: All castings shall be cast bronze. Castings shall be painted inside and out with a high quality, lead free, alkyd enamel finish. All fasteners shall be 300 Series Stainless Steel.
- E. Power Cords: Motor power cords shall be 14/3 SOW/SOWA 4 conductor cord of the proper length to suit installation. The cable jacket shall be sealed at the motor entrance by means of a rubber compression washer and compression nut. A heat shrink tube filled with epoxy shall seal the outer cable jacket and the individual leads to prevent water from entering the motor housing.
- F. Access Cover: A pump hatch shall have a minimum 26" x 37" rectangular opening. The hatch shall be constructed of aluminum or steel and have all stainless steel hardware, a hold open arm, a lock hasp for padlocks, and a non-skid, diamond pattern top. The hatch shall be rated for 300 pounds per square foot and shall be cast in place into a concrete cover.

- G. Piping and Valves: Schedule 40 galvanized steel discharge piping and Ny-glass ball valves shall be installed inside the wet well. Extension handles and valve stem wrench shall be provided but not permanently installed.
- H. Control Panel: A NEMA 4X fiberglass control panel shall be furnished and installed appropriate for the electrical characteristics of the pump station such as a Zoeller Model 10-1044, F. E. Myers Model CE-21DW, or equal. The control system shall automatically alternate the lead pump during each run request.

The enclosure shall be of one piece, weatherproof construction with a gasketed cover. The cover shall be lockable.

The panel shall include separate 20 amp main disconnect breakers, alarm circuit fuse, control circuit fuse, separate I.E.C. rated motor contactors, pump hand-off-auto (H-O-A) switches (momentary in the hand position), alarm test switch, solid state alternator relay, override relay, terminal blocks, ground lug, run lights and all necessary wiring and brackets. Power wiring for the pumps and the alarm system shall be on separate circuits.

The control panel shall be equipped with a red light. The lens shall be mounted on the enclosure. The light shall have a bright glow during high water conditions and go out when the water level drops.

All internal wiring shall be neat and color coded. Each wire shall be a different color or stripe (except for ground) and all incoming wires shall terminate into a box clamp type terminal block (except incoming power). All wires shall be 14 GA. Type TEW rated for 105°C. A schematic diagram (showing wire color) shall be permanently fastened to the inside of the enclosure. An Installation and Service Manual will be included with the panel. The control panel shall be U.L. listed as an assembly.

- I. Level Controls: Sealed mercury float switches shall be provided and installed as shown on the plans. Four float switches are required for duplex operation. Floats shall be provided with stabilizing weights.

A float mounting bracket with strain relief grommets shall be provided and installed as shown on the plans to allow for easy adjustment of the float levels.

- J. Warranty: The pumps shall have a one year warranty from date of shipment.
- K. Pump Disconnect and Rail System: The pumps shall have a square guide rail system which includes a single rigid stainless steel square rail design, red brass disconnect fitting, cast iron angle arm bracket and guide plates, stainless steel piping, PVC ball valve, and cast iron check valve. Rail system shall be for the designated pump such as a Zoeller model 39-0086.
- L. Valve Vault: A concrete valve vault shall be constructed adjacent to the lift station. It shall contain check valves, gate valves and a hose connection. The

vault shall have a 2" gravity drain line extending to the wet well. The vault shall have a lockable cast iron lid.

The galvanized steel discharge lines from each of the pumps shall be routed from the wet well to the valve vault. Each line shall have a Dresser coupling between the two concrete structures.

The check valves shall have an outside lever with adjustable weight. They shall be a Mueller A-2600-6, or approved equal. The gate valves shall be the resilient wedge type. All gate valves shall be Mueller Model A-2360, or approved equals. A hose connection shall be provided to connect an external pump in the event of a lift station failure. The piping and valves in the valve vault shall be adequately supported from the concrete bottom of the structure. Steel pipe supports shall be constructed and connected securely to the piping using "U"-bolts. All supports shall be prepared, primed and painted with zinc based paint.

5.02. ELECTRICAL.

The Contractor shall be responsible for supplying 115 volt, single phase power to the system. The existing electrical service to the existing mechanical waste water system may be used. All electrical work shall be in accordance with all Federal, State and local codes and the latest version of the National Electric Code. All electrical conduits shall be watertight. The contractor shall verify any existing wiring, electrical components, breakers, etc., are in good condition, properly sized, and suitable for the new loads. The control panel shall be equipped with a highly visible alarm light.

5.03. SETTINGS.

The lift station system shall be set at the following elevations:

<u>ITEM</u>	<u>Lift Station LS#1</u>
Top	514.50
Inlet - Gravity Sewer Line	509.60
High Alarm	508.00
Pump #2 On	506.00
Pump #1 On	505.50
Pumps Off	505.00
Bottom of Wet Well	504.00

5.04. LIFT STATION TESTING.

Each lift station shall be completely tested to insure proper operation at all levels of effluent. The force main shall be pressure tested at 150 psi for a minimum of one (1) hour.

L-6 MECHANICAL PLANT DEMOLITION.

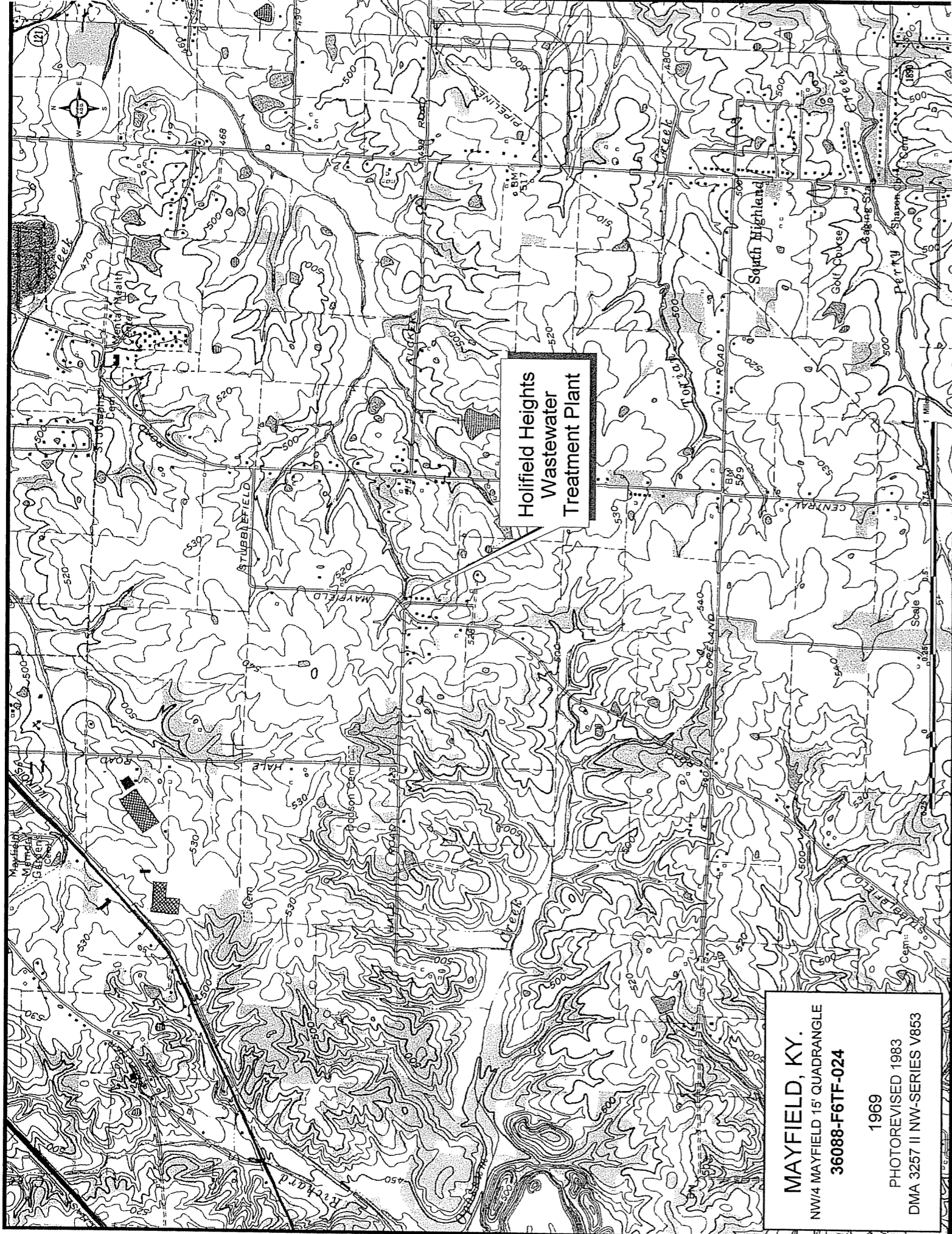
- 6.01** After the new on-site system is placed in operation, the existing mechanical treatment plant, sand drying beds and related equipment shall be demolished. The following steps shall be performed.
- 6.02** The 6" clay inlet effluent line shall be cut off, capped and a concrete thrust block poured to prevent further use.
- 6.03** The electrical power feeds, control wiring, etc. (including exposed conduit and all wiring) to the existing mechanical equipment shall be completely removed and disposed of per the Owner's direction.
- 6.04** A licensed septic tank removal service shall remove all remaining liquid and solids from the treatment compartments. Once all liquid and solids are initially removed, the in-ground compartments and equipment subjected to wastewater shall be water blasted clean. All liquid shall be removed by the licensed septic tank removal service
- 6.05** Once cleaned, all mechanical equipment and piping shall be removed and disposed of per the Owner's direction. This includes all pumps, above ground supports, drying bed piping, etc.
- 6.06** The existing sand in the drying beds will be excavated and transported to an approved landfill.
- 6.07** All concrete curbs, walls, walkways, etc., shall be demolished to a depth of 12 inches below the exiting grade. All concrete debris will be transported to an approved landfill.
- 6.08** The existing chain link fence, posts, and gate shall be removed and disposed of in an approved landfill.
- 6.09** The in-ground compartments will then be backfilled with coarse sand or compacted bank gravel to within 8" of grade.
- 6.10** The final 8" above the in-ground compartments, the demolished concrete areas, and drying bed areas will be backfilled with clean earth fill to final grade.
- 6.11** The entire area will then be graded level, seeded the Fescue 31 and perennial rye grass, and mulched with straw as per Section 3.04.

Purchase Public Service Corporation

**Application for a Certificate of Public Convenience and Necessity – Wastewater
Treatment Lagoon Construction**

807 KAR 5:001: Section 9(2) (d)

Location Map



Hoiifield Heights
Wastewater
Treatment Plant

MAYFIELD, KY.
NW/4 MAYFIELD 15' QUADRANGLE
36088-F6TF-024
1969
PHOTOREVISED 1983
DMA 3257 II NW-SERIES V853

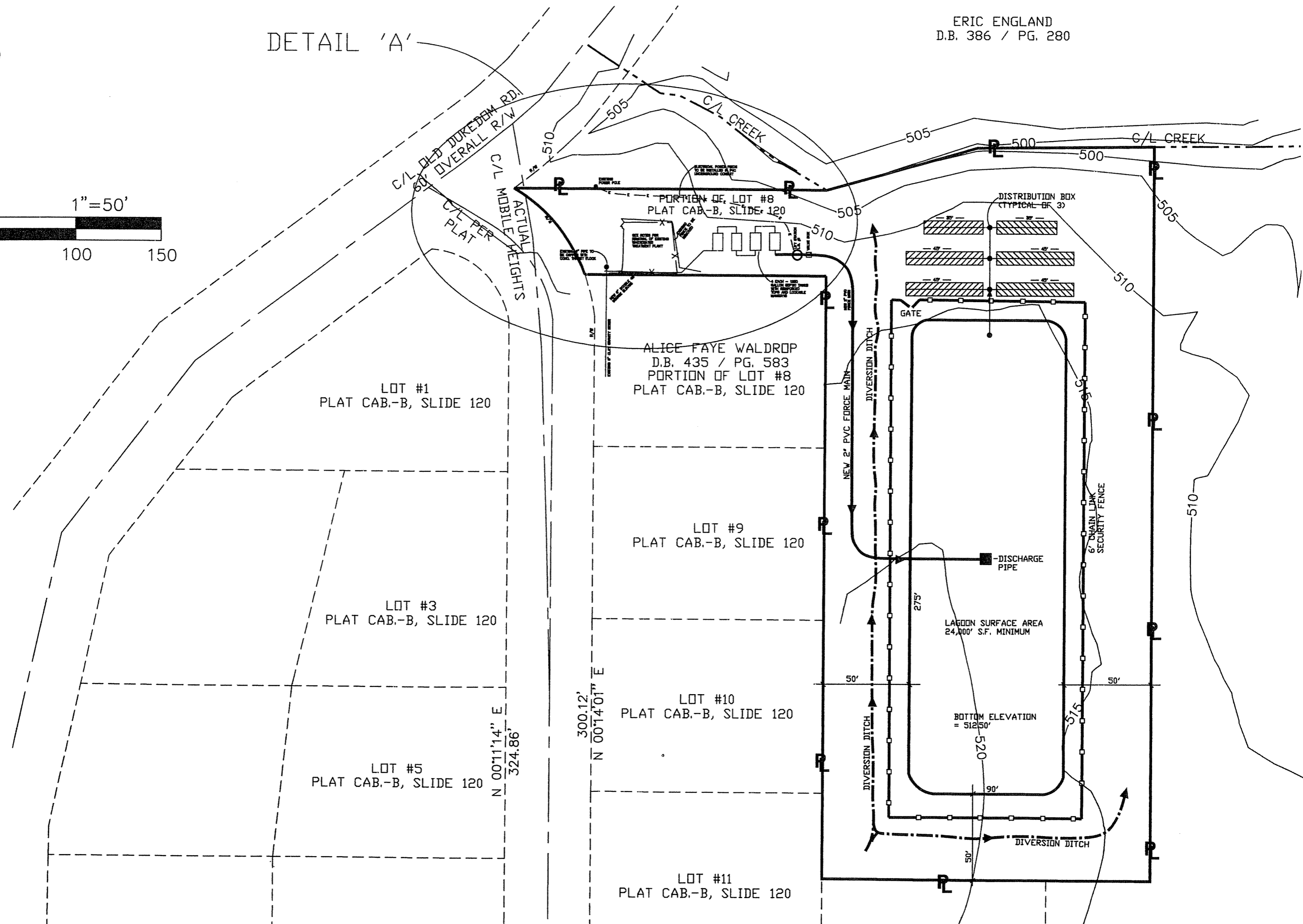
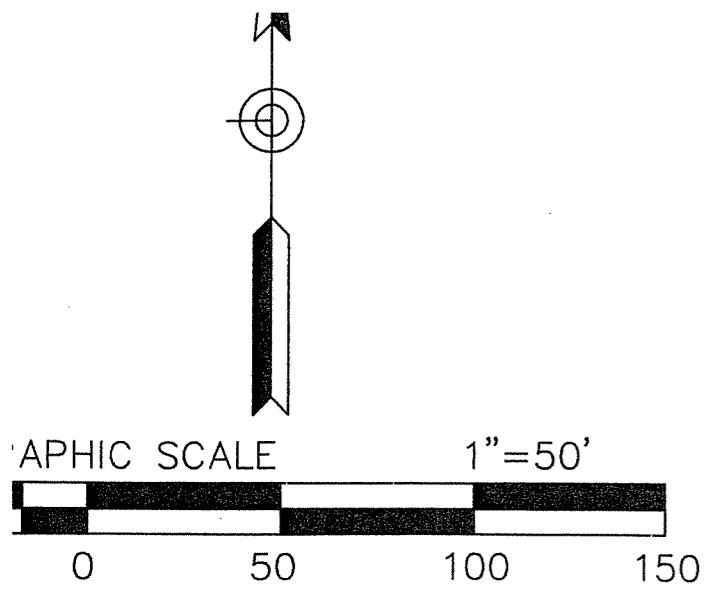
Purchase Public Service Corporation

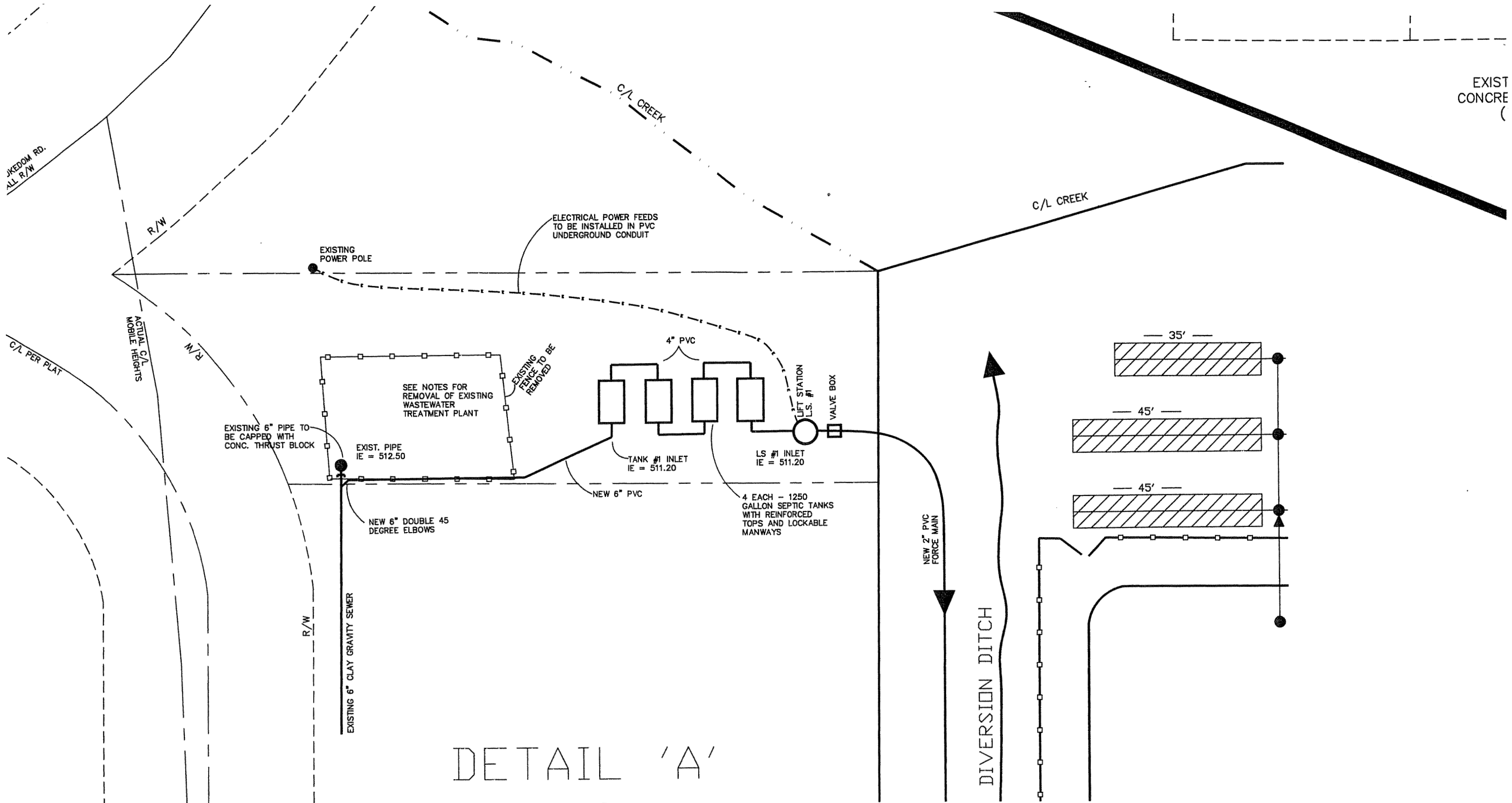
**Application for a Certificate of Public Convenience and Necessity – Wastewater
Treatment Lagoon Construction**

807 KAR 5:001: Section 3(1) (c)

Detailed Map of Lagoon Treatment System

DETAIL 'A'





DETAIL 'A'
NTS

EXIST
CONCRE
(

Purchase Public Service Corporation

**Application for a Certificate of Public Convenience and Necessity – Wastewater
Treatment Lagoon Construction**

807 KAR 5:001: Section 3(1) (e)

Financial Statement

PURCHASE PUBLIC SERVICE CORPORATION

BUDGET VARIANCE REPORT

FOR THE YEAR ENDED DECEMBER 31, 2007

HOLIFIELD HEIGHTS	2007 BUDGET	Y-T-D ACTIVITY	BUDGET EXPENDED (STD =100%)
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REVENUES

Flat Rate Revenue	2,808.00	2,348.74	83.64%
Customer's Forfeited Discounts	70.00	46.88	66.97%
	<u>2,878.00</u>	<u>2,395.62</u>	83.24%

Labor and Expenses - Water	145.00	161.60	111.45%
Labor and Expenses - Sludge Hauling	165.00	1,120.00	678.79%
Labor and Expenses - Water Analysis	-	-	Not Budgeted
Fuel and Power - Electricity	1,432.00	860.09	60.06%
Miscellaneous Supplies and Expenses	20.00	62.79	313.95%
Supervision and Engineering	26.00	9.31	35.81%
Supervision and Engineering - Subcontracted	1,701.00	1,751.75	102.98%
Uncollectible Accounts Expense	-	-	Not Budgeted
Office Supplies & Expense	-	23.72	Not Budgeted
Outside Services Employed	35.00	35.01	100.03%
Insurance Expense	161.00	134.00	83.23%
Regulatory Commission Expense	5.00	4.31	86.20%
Total Expenses	<u>3,690.00</u>	<u>4,162.58</u>	112.81%

REVENUE OVER (UNDER) EXPENSE

	<u>(812.00)</u>	<u>(1,766.96)</u>	
Depreciation, Net of Acquisition Adjustment	3.00	2.74	
NET REVENUE OVER (UNDER) EXPENSE	<u>(815.00)</u>	<u>(1,769.70)</u>	