

Ken Wilson Engineering and Surveying, PLLC

P.O. Box 1169
London, Kentucky 40743-1169
Telephone (606) 862-7612

April 7, 2006

Mike Burford, Director Division of Filings
Kentucky Public Service Commission
P.O. Box 615
Frankfort, KY 40602-0615

RE: Case No. 2005-00312
Wood Creek Water District
Highway 25 North 2004 Sewer Project
Laurel County, Kentucky

RECEIVED
APR 25 2006
PUBLIC SERVICE
COMMISSION

Dear Mr. Burford:

This letter is in response to your letter dated August 19, 2005, per my letter of response dated August 25, 2005, and per subsequent telephone conversations with PSC personnel concerning the referenced Project.

In response to the aforesaid letter, the following is submitted:

Per **807 KAR 5:001: Section 9(2)(b)**: Copies of franchises or permits from any public authority for the proposed new construction or extension were previously submitted.

Per telephone conversations with KY PSC personnel, the only exception was the approval from the Kentucky Division of Water. A copy of this approval is enclosed herewith.

Per **807 KAR 5:001: Section 9(2)(c)**: A description of the proposed location, route, or routes of the new construction or extension was previously submitted. A description of the manner in which same will be constructed was also previously submitted. Also previously submitted was a statement that there are no known public utilities, corporations, or persons with whom the proposed new construction or extension is likely to compete.

continued next page

Mike Burford / KY PSC
Case No. 2005-00312
Wood Creek Water District
April 7, 2006
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Per 807 KAR 5:001: Section 9(2)(c) (continued):

Per telephone conversations with KY PSC personnel, to supplement the aforesaid, enclosed herewith are; 1) two copies of plans as approved by the Kentucky Division of Water, and 2) two copies of the Contract Documents used for the bidding of materials.

We trust that these items complete all the information which is required. If you should have any questions concerning this matter, please contact me or Bradley Wilson at Wood Creek Water District (606) 878-1078.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wm Kenneth Wilson', written in a cursive style.

Wm Kenneth Wilson, PE, PLS
Project Engineer

enclosures: per letter

pc: James Rice, KY PSC
Bradley Wilson, Wood Creek Water District

KY PSC 07APR06



ERNIE FLETCHER
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

LAJUANA S. WILCHER
SECRETARY

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

14 REILLY ROAD

FRANKFORT, KENTUCKY 40601

www.kentucky.gov

March 14, 2006

RECEIVED

APR 25 2006

**PUBLIC SERVICE
COMMISSION**

Paul Napier, Superintendent
Wood Creek Water District
P.O. Box 726
London, KY 40743

Re: Highway 25 North
Laurel County, Kentucky
Project ID: 05-0254
London WWTP -- 2585
Activity ID: APE20050001

Dear Mr. Napier

In accordance with KRS Chapter 224.10-100 (19), the Environmental and Public Protection Cabinet approves the Construction Permit Application for Sewer Line Construction dated April 8, 2005

If we can be of any further assistance or should you wish to discuss this correspondence, please do not hesitate to contact Todd Powers at 502/564-2225, extension 519.

Sincerely,

Harold L. Sparks, P.E., Supervisor
Wastewater Facilities Review Section
Facilities Construction Branch
Division of Water

HLS/TAP

c: Laurel County Health Department
Wm Kenneth Wilson PE, PLS

Attachment

Sewer Line Construction

London WWTP
Facility Requirements

Activity ID No.: APE20050001

Page 1 of 3

PORT5 (London) Highway 25 North:

Submittal/Action Requirements:

Condition No.	Condition
S-1	When this system is completed, the applicant shall submit written certification: Due 30 calendar days after Completion of Construction to the Division of Water that the facilities have been constructed and tested in accordance with the approved plans and specifications and the above approval conditions. Such certification shall be signed by a registered professional engineer. Failure to certify may result in penalty assessment and/or future approvals being withheld. [401 KAR 5:005 Section 24(2)]

Narrative Requirements:

Condition No.	Condition
T-1	The plans and specifications submitted for the project are approved by the Environmental and Public Protection Cabinet as to sanitary features, subject to the requirements contained within the permit. [401 KAR 5:005 Section 24(4)(a)]
T-2	Authority to construct these sewers is hereby granted. This approval is issued under the provisions of KRS Chapter 224.10-100 (19) regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any permits or licenses required by this Cabinet and other state, federal, and local agencies. [401 KAR 5:005 Section 24(4)(a)]
T-3	The plans include 600 Simplex Grinder Lift Stations, a lift station with 2 pumps of 11 GPM capacity at 99 TDH, a lift station with 2 pumps of 28 GPM capacity at 140 TDH, a lift station with 2 pumps of 93 GPM capacity at 201 TDH, a lift station with 2 pumps of 9 GPM capacity at 135 TDH, a lift station with 2 pumps of 19 GPM capacity at 133 TDH, a lift station with 2 pumps of 27 GPM capacity at 138 TDH, a lift station with 2 pumps of 40 GPM capacity at 115 TDH, a lift station with 2 pumps of 22 GPM capacity at 77 TDH, a lift station with 2 pumps of 10 GPM capacity at 113 TDH, a lift station with 2 pumps of 81 GPM capacity at 109 TDH, a lift station with 2 pumps of 53 GPM capacity at 138 TDH, a lift station with 2 pumps of 60 GPM capacity at 137 TDH, a lift station with 2 pumps of 102 GPM capacity at 100 TDH, a lift station with 2 pumps of 22 GPM capacity at 138 TDH, a lift station with 2 pumps of 26 GPM capacity at 53 TDH, and following lengths of forced main: 25499 LF of 2", 2610 LF of 2.5", 45964 LF of 3", 22667 LF of 4", 27560 LF of 6", 3877 LF of 8", 2633 LF of 10". The flow from these lines is to be treated at the City of London Wastewater Treatment Plant, KPDES Permit No. KY0021270, Laurel County, Kentucky. [401 KAR 5:005 Section 24(4)(a)]
T-4	The types of sanitary sewer pipe shall be limited to PVC. [401 KAR 5:005 Section 1(2)]
T-5	This subdivision sewer line extension approval is for 512 house connections. The anticipated flow is 120,000 gpd. [401 KAR 5:005 Section 1(2)]

Sewer Line Construction

London WWTP
Facility Requirements

Activity ID No.: APE20050001

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PORT5 (continued):

Narrative Requirements:

Condition No.	Condition
T-6	PVC pressure pipe material and joints shall conform to ASTM D-2241, or latest revision. [Ten States (WW) 33.81]
T-7	Flexible thermoplastic sewer pipe installation for pressure sewers shall conform to ASTM D-2774, latest revision. [Ten States (WW) 33.81]
T-8	Gravity sewer lines and force mains shall have a minimum of thirty (30) inches of cover or provide comparable protection. [401 KAR 5:005 Section 8(9)]
T-9	If gravity sewer lines and force mains are to be constructed in fill areas, the fill areas shall be compacted to ninety-five (95) percent density as determined by the Standard Proctor Density test or to a minimum of ninety (90) percent density as determined by the Modified Proctor Density test prior to the installation of the sewer lines. [401 KAR 5:005 Section 8(10)]
T-10	Sewers crossing water mains shall be laid to provide a vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints are equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. [Ten States (WW) 38.32]
T-11	Sewers shall be laid at least 10 feet horizontally from any existing or proposed water main. The distance shall be measured from edge to edge. [Ten States (WW) 38.31]
T-12	Air release valves shall be installed at high points in any proposed force main. [401 KAR 5:005 Section 8(19)]
T-13	Requirements for Sewer Line Extensions. A simplex design shall be used only for pump stations which serve an individual residence or business and a spare pump shall be available for immediate installation. [Ten States (WW) 33.4]
T-14	An audible and visible alarm shall be provided at any proposed wastewater pump station. [Ten States (WW) 45]
T-15	Requirements for Sewer Line Extensions. All proposed pump station wetwells shall be sized such that, based on the average flow, the time to fill the wetwell from the pump-off elevation to the pump-on elevation shall not exceed thirty (30) minutes. [401 KAR 5:005 Section 8(16)]
T-16	Adequate thrust blocks shall be provided at all significant bends in any proposed sewer force main in order to prevent movement. [Ten States (WW) 48.4]
T-17	The integrity of any proposed force main shall be verified by leakage tests. The applicant shall describe the proposed testing methods and leakage limits in the specifications submitted with the permit application. [401 KAR 5:005 Section 8(6)(b)]

Sewer Line Construction

London WWTP
Facility Requirements

Activity ID No.: APE20050001

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PORT5 (continued):

Narrative Requirements:

Condition No.	Condition
T-18	Facilities shall be designed in accordance with the "Recommended Standards for Wastewater Facilities" of the Great Lakes-Upper Mississippi River Board of State Public Health and Environmental Managers, commonly referred to as "Ten States' Standards", 1990 edition. [401 KAR 5:005 Section 7(1)(a)]
T-19	The permit is issued to the applicant and the permittee shall remain the responsible party for compliance with all applicable statutes and administrative regulations until a notarized applicable change in ownership certification is submitted and the transfer of ownership is acknowledged by the cabinet. [401 KAR 5:005 Section 24(3)]
T-20	There shall be no deviations from the plans and specifications submitted with the application or the conditions specified unless authorized in writing by the cabinet. [401 KAR 5:005 Section 24(4)(b)1]
T-21	The issuance of a permit by the cabinet does not convey any property rights of any kind or any exclusive privilege. [401 KAR 5:005 Section 24(6)]
T-22	A permit to construct a facility shall be effective upon issuance unless otherwise conditioned. Construction shall be completed within twelve (12) months unless additional time is requested. If construction is not commenced within the twelve (12) months following a permit's issuance, a new permit shall be obtained before construction may begin. The cabinet may allow a single twelve (12) month extension to begin construction if site conditions have not changed. [401 KAR 5:005 Section 24(1)]
T-23	The Construction Permit is effective on March 14, 2006 and expires on March 14, 2007. [401 KAR 5:005 Section 24(1)]

**WOOD CREEK WATER DISTRICT
WASTEWATER DIVISION**

**HIGHWAY 25 NORTH 2004 SEWER PROJECT
SANITARY SEWER SYSTEM EXTENSIONS
LAUREL COUNTY, KENTUCKY**

RECEIVED

APR 25 2006

**PUBLIC SERVICE
COMMISSION**



BOARD OF DIRECTORS:

Glenn Williams, Chairman

Carl Keller, Treasurer

Earl Bailey, Secretary

Eula Dalton, Office Manager

Donta Evans, Superintendent

Paul Napier, Superintendent of Wastewater Division

Prepared By:

Wm Kenneth Wilson, PE, PLS

Engineer • Surveyor

902 W. 5th Street
P.O. Box 1169
London, KY 40743-1169
Telephone (606) 862-7612

-ADVERTISEMENT FOR BIDS-

WOOD CREEK WATER DISTRICT: WASTEWATER DIVISION

Sealed BIDS for the execution of the Materials Bid for the Highway 25 North 2004 Sewer Project consisting of supply and delivery of materials will be received by Wood Creek Water District at their offices located at 1670 East Hal Rogers Parkway, P.O. Box 726, London, Kentucky 40741 until 3:00 (local time) on Monday March 14, 2005, and, then, at said office, publicly opened and read aloud.

The contract is described as supply and delivery of materials, as follows:

- Division 1: approximately 250,000 feet of various pipe
- Division 2: miscellaneous fittings for the above pipe
- Division 3: 512 simplex grinder lift stations and 2 duplex grinder lift stations
- Division 4: miscellaneous electrical items for lift station installations
- Division 5: miscellaneous items, including, crushed limestone, D.G.A., concrete, bituminous asphalt, grass seed, straw mulch, concrete block, bag concrete mix, etc.

The CONTRACT DOCUMENTS may be examined at the following locations:

WOOD CREEK WATER DISTRICT, 1670 East Hal Rogers Parkway, London, Kentucky 40741
Wm Kenneth Wilson, PE, PLS, 902 West 5th Street, London, Kentucky 40741

Copies of the CONTRACT DOCUMENTS may be obtained at the office of Wm Kenneth Wilson, PE, PLS at the above address or by telephone at (606)862-7612 or by facsimile at (606)864-2977.

Each BIDDER must deposit with their BID, security in the amount, form and subject to the conditions provided in the CONTRACT DOCUMENTS. The BIDDER awarded the contract shall execute a 20% Payment Bond and shall furnish, as required by the General Conditions, delivery of all required materials to be between May 1, 2005 and June 1, 2005, except blacktop and concrete which are to be delivered as needed. Included with each BID must be a timetable for delivery. A Bid Bond of 10% of the BID amount is required with each BID. BID Bond will be forfeited to WOOD CREEK WATER DISTRICT if delivery time is not met. No BIDDER may withdraw his/her BID within 90 days after the actual date of the opening thereof.

Payment for all materials by WOOD CREEK WATER DISTRICT will be no less than 90 days from delivery of acceptable materials.

WOOD CREEK WATER DISTRICT reserves the right to waive any formalities and/or to reject any or all Bids.

INFORMATION FOR BIDDERS

Each BID must be submitted in a separate sealed envelope, addressed to the OWNER at the address indicated in the advertisement. Each sealed envelope containing a BID must be plainly marked on the outside as BID for: **Highway 25 North 2004 Sewer Project**; and the envelope must also bear on the outside the BIDDER's name, address, phone number, and license number, if applicable. If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at the above address.

PREPARATION OF BIDS:

A BID must be submitted on the prescribed form. BIDS may be copies, but each BID must also be accompanied by original document BID BOND.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within 90 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the OWNER and BIDDER.

The CONTRACT DOCUMENTS contain the provisions required for the BIDDING of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the BIDDER or relieve the Bidder from fulfilling any of the contract.

Each BID must be accompanied by a BID BOND payable to the OWNER for five percent of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the BID BONDS of all except the three lowest responsible BIDDERS. When the Agreement is executed, the bonds of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the PAYMENT BOND and

PERFORMANCE BOND have been executed and approved, after which it will be returned. A certified check may be used in lieu of a BID BOND.

A PERFORMANCE BOND and a PAYMENT BOND, each in the amount of one-hundred percent (100%) of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS or PAYMENT BONDS and PERFORMANCE BONDS must file with each BOND an certified and effective dated copy of their power of attorney. If the Power of Attorney indicates the agent signing BONDS is out-of-state, BOND must be countersigned by a Kentucky resident agent.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the PERFORMANCE BOND and PAYMENT BOND within ten (10) calendar days from the date when NOTICE OF AWARD is delivered to the BIDDER. The NOTICE OF AWARD shall be accompanied by the necessary Agreement and BOND form. In case of failure of the BIDDER to execute the Agreement, the OWNER may consider the BIDDER in default, in which case, the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER, within ten (10) days of receipt of acceptable PERFORMANCE BOND, PAYMENT BOND and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement and return to such party and executed duplicated of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may, by written notice, withdraw the signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by th OWNER.

The NOTICE TO PROCEED shall be issued within ten (10) days of the execution of the agreement by the OWNER. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period, the time may be extended by mutual agreement between the OWNER and BIDDER. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the BIDDER may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as deemed necessary to determine the ability of the BIDDER to supply the specified material(s), and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the Agreement and to supply the specified materials contemplated therein.

A conditional or qualified BID will not be accepted.

Award will be made to the lowest responsible BIDDER separately for each Division, for Division 1 through 4, and for each individual item in Division 5.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Each BIDDER is responsible for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to its BID.

The BIDDER's attention is directed to the fact that all applicable State laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as through herein written out in full.

The low BIDDER shall supply to OWNER in the BID package, the names and addresses of major material suppliers.

BID

Proposal of _____
hereinafter called "BIDDER"), organized and existing under the laws
of the State of _____, and doing business as _____*,
to the Wood Creek Water District (herein called the "DISTRICT").

In compliance with your Advertisement for Bids, BIDDER hereby
proposes to supply materials for the **Highway 25 North 2004 Sewer
Project**, in strict accordance with the CONTRACT DOCUMENTS, within
the time set forth therein, and at the prices stated herein.

By submission of this BID, BIDDER certifies, and in the case
of a joint BID each party thereto certifies as to its own
organizations, that this BID has been arrived at independently,
without consultations, communication, or agreement as to any matter
relating to this BID with any other BIDDER or with any competitor.

BIDDER hereby agrees to supply and deliver the materials as
outlined in the CONTRACT DOCUMENTS on the dates as specified in the
ADVERTISEMENT FOR BIDS. BIDDER further agrees to pay, as
liquidated damages, the sum of \$300.00 for each consecutive
calendar day after June 1, 2005 that 100% of materials have not
been delivered, except concrete and blacktop.

BIDDER agrees to supply and deliver all materials described in the
CONTRACT DOCUMENTS for the Unit Prices entered on the following Bid
Schedules:

Respectfully submitted,

Signature

Company Name

Title

Address

Date

Employer I.D. No.

Phone

SEAL - (if BID is by a corporation)

*Insert "a corporation", "a partnership", or "an
individual" as applicable.

BID SCHEDULES

NOTE: BIDS shall not include sales tax, but shall include any/all other applicable taxes/fees.
Wood Creek Water District's Sales Tax Exemption # is SD-63-101.

DIVISION 1: Bid Items: Collection Mains (Pipe) (per Specifications)					
No.	Quantity	Units	Description	Unit Cost	Item Total
1	14268	LF	8" PVC SDR-21 Pipe (green in color)		
2	31675	LF	6" PVC SDR-21 Pipe (green in color)		
3	13278	LF	4" PVC SDR-21 Pipe (green in color)		
4	69760	LF	3" PVC SDR-21 Pipe (green in color)		
5	9015	LF	2" PVC SDR-21 Pipe (green in color)		
6	100000	LF	1.5" SDR-17 Service Lateral PVC Pipe		
7	1080	EA	3" x 1½" casing spacers		
8	0	LF	12"SDR-21 PVC Casing Pipe		
9	500	LF	10"SDR-21 PVC Casing Pipe		
10	40	LF	8"SDR-21 PVC Casing Pipe		
11	300	LF	6"SDR-21 PVC Casing Pipe		
12	100	LF	4"SDR-21 PVC Casing Pipe		
13	4100	LF	3" SDR-21 PVC Casing Pipe		
14	460	LF	10" Steel Casing Pipe		
15	40	LF	8" Steel Casing Pipe		
16	300	LF	6" Steel Casing Pipe		
17	100	LF	4" Steel Casing Pipe		
18	220	LF	3" Steel Casing Pipe		
19	960	EA	10" x 6" casing spacer		
20	80	EA	8" x 4" casing spacer		
21	600	EA	6" x 3" casing spacer		
22	200	EA	4" x 2" casing spacer		
TOTAL BID					

DIVISION 2: Bid Items:Collection Mains (Fittings, etc.) (per Specifications)					
No.	Quantity	Units	Description	Unit cost	Item Total
1	40	EA	6" RS MJ Gate Valve		
2	12	EA	4" RS MJ Gate Valve		
3	110	EA	3" RS MJ Gate Valve		
4	24	EA	2" RS MJ Gate Valve		
5	186	EA	Valve Box and Lid		
6	12	EA	2" x 2" DI MJ Tee		
7	3	EA	6" x 6" DI MJ Tee		
8	3	EA	6" x 4" DI MJ Tee		
9	22	EA	6" x 3" DI MJ Tee		
10	0	EA	6" x 2.5" DI MJ Tee		
11	4	EA	6" x 2" DI MJ Tee		
12	4	EA	4" x 4" DI MJ Tee		
13	10	EA	4" x 3" DI MJ Tee		
14	5	EA	4" x 2" DI MJ Tee		
15	60	EA	3" x 3" DI MJ Tee		
16	10	EA	3" x 2" DI MJ Tee		
17	6	EA	6" DI MJ 90 Bend		
18	6	EA	6" DI MJ 45 Bend		
19	4	EA	4" DI MJ 90 Bend		
20	4	EA	4" DI MJ 45 Bend		
21	11	EA	3" DI MJ 90 Bend		
22	11	EA	3" DI MJ 45 Bend		
23	2	EA	6" x 4" DI MJ Reducer		
24	1	EA	6" x 3" DI MJ Reducer		
25	5	EA	4" x 3" DI MJ Reducer		
26	3	EA	3" x 2" DI MJ Reducer		
27	37	EA	3" Flg 90 Bend		
28	37	EA	3" Flg x Flg DI Pipe 36"Length		
29	37	EA	3" Flg x Flg DI Pipe 12" Length		

30	37	EA	3" Blind Flg w/ 2.5" Thread Tap		
31	37	EA	2.5" Quick Couple (Brass) w Cover		
32	37	EA	18" Dia. X 30" Clean-out Box		
33	37	EA	18" Dia. Clean-out Box Lid		
34	37	EA	3" Gate Valve MJ X Flg		
35	148	EA	3" Full Face Flange Pack		
36	40	EA	Combination Air/Vacuum Valve		
37	40	EA	36" Dia. Air/Vacuum Vault		
53	40	EA	36" Dia. Air/Vacuum Vault Lid		
54	2	EA	8"x6" Tapping Sleeve (tie-in to existing)		
55	3	EA	6" Tapping Valve		
56	2	EA	6"x6" Tapping Sleeve (tie-in to existing)		
57	3	EA	6"x4" Tapping Sleeve (tie-in to existing)		
58	5	EA	4" Tapping Valve		
59	3	EA	4"x4" Tapping Sleeve (tie-in to existing)		
60	205	EA	6" x 1.5" Lateral Saddle		
61	38	EA	4" x 1.5" Lateral Saddle		
62	231	EA	3" x 1.5" Lateral Saddle		
63	0	EA	2.5" x 1.5" Lateral Saddle		
64	38	EA	2" x 1.5" Lateral Saddle		
65	512	EA	1.5" Ball Corp		
66	512	EA	Curb Box w/Lid		
67	512	EA	15" Lateral Box Lid		
68	512	EA	15" x 30" Lateral Box		
69	40	EA	2" threaded brass ball valve		
70	40	EA	2" threaded brass union		
71	6	EA	6" x 2" threaded tapping saddle or tee		
72	5	EA	4" x 2" threaded tapping saddle or tee		
73	30	EA	3" x 2" threaded tapping saddle or tee		
74	3	EA	2" x 2" threaded tee		
				TOTAL BID	

DIVISION 3: Bid Items: Individual Grinder Stations (per Specifications)					
No.	Quantity	Units	Description	Unit cost	Item Total
1	453	EA	Simplex Grinder Station 30"x60"complete w/Lateral Kit		
2	35	EA	Simplex Grinder Station 30"x72" “		
3	17	EA	Simplex Grinder Station 30"x84" "		
4	4	EA	Simplex Grinder Station 30"x96" "		
5	2	EA	Simplex Grinder Station 30"x108" "		
6	1	EA	Simplex Grinder Station 30"x120" "		
7	2	EA	Duplex Grinder Station 48" x 60" “		
TOTAL BID					

DIVISION 4: Bid Items: Electrical (per specifications)

No.	Quantity	Units	Description	Unit cost	Item Total
1	512	EA	30 Amp. DP Disconnect (weatherproof)w/Breaker		
2	51200	LF	3/4" Conduit PVC Schd 40		
3	1600	LF	3/4" Conduit PVC Schd 40 Flex-Tite		
4	1024	EA	3/4" Flex-Tite to Box Connectors w/ Locknut		
5	1970	EA	3/4" Conduit PVC Male Adapter Schd 40		
6	512	EA	3/4"Conduit PVC Female Adaper Schd 40		
7	1576	EA	3/4" Conduit PVC Long Sweep 90 Schd 40		
8	2200	EA	3/4" Conduit PVC Coupling Schd 40		
9	3000	EA	3/4" Conduit Strap		
10	3000	EA	3/4" stainless steel Locknuts		
11	61400	LF	10/3 w/grd Romex Electrical Wire		
12	1000	EA	1/2" Wire Staples (Plastic) for 10/3		
13	30	Qt	PVC Cleaner		
14	30	Qt	PVC Glue		
15	40	Tube	Clear Silcone		
16	5000	EA	1" x 1/4" stainless steel lag bolts		
17	5000	EA	1" stainless steel masonry screws (Simpson Strongtie) 5/16" Head		
18	228981	LF	12 Guage THHN Tracer-Locating Wire		
19	512	EA	Electrical Inspection		
				TOTAL BID	

DIVISION 5: Miscellaneous Items (per specifications)

**NOTE: Items on this page are bid individually and will be awarded individually.
Bidders may bid one Item or all Items. Award will be on lowest bid for that Item.**

Bid Item: Dense Graded Aggregate (D.G.A.) (per Specifications)

No.	Quantity	Units	Description	Unit cost	Item Total
1	2600	tons	D.G.A. (delivered)		
TOTAL BID					

Bid Item: Crushed Stone Base (per Specifications)

No.	Quantity	Units	Description	Unit cost	Item Total
1	3487	tons	crushed stone base (delivered)		
TOTAL BID					

Bid Item: Concrete per Specifications

No.	Quantity	Units	Description	Unit cost	Item Total
1	550	CY	concrete (delivered)		
TOTAL BID					

Bid Item: Blacktop (Asphalt Paving) per Specifications

No.	Quantity	Units	Description	Unit cost	Item Total
1	575	tons	blacktop (F.O.B. asphalt plant)		
TOTAL BID					

Bid Items: Miscellaneous

No.	Quantity	Units	Description	Unit cost	Item Total
1	1500	LB	Seed		
2	2550	Bale	Straw		
3	300	EA	8"x16" solid concrete block		
4	3585	EA	80 lb. bag concrete mix		
TOTAL BID					

MATERIALS SPECIFICATIONS

GENERAL REQUIREMENTS

- 1) All references to Standard Specifications, or any other outside standards, codes, publications, etc. (i.e. AASHTO, ANSI, ASTM, AWWA, NSF, KYDOT, KYDOH, etc.) shall refer to the latest applicable published edition.
- 2) All materials shall be new and unused.
- 3) Bids shall not include sales tax, but shall include any other applicable tax(es) and/or fees. Wood Creek Water District's Sales Tax Exemption Number is SD-63-101 for tax free purchases.
- 4) Bids for all items shall include all the necessary accessories (packs when applicable) needed for installation on each item (including, but not limited to, gaskets, flanges, bolts, nuts, washers, etc.)
- 5) Complete Shop Drawings, including dimensions, shall be provided for all materials prior to delivery.

CERTIFICATION OF MATERIALS

- 1) Samples of materials may be requested by OWNER prior to delivery of materials.
- 2) If requested by OWNER, materials shall be accompanied by a Certificate of Compliance stating that such materials fully comply with the requirements contained in these Contract Documents. Certificates of Compliance shall include the following:
 - Identification of specific requirement(s) of the Contract Documents which is(are) being addressed;
 - Identification of specific test(s) and/or test method(s) used;
 - Signature of an authorized agent of a testing agency acceptable to ENGINEER;

- Distinct and clear identification of the lot(s) of material(s) for which tests were performed; and,
- Be of form and language acceptable to OWNER.
- If required, each lot of materials delivered to the Project Site must be accompanied by such Certificate of Compliance in which the lot is clearly identified.
- OWNER reserves the right to refuse the use of material(s) on this Project on the basis of Certificates of Compliance.

ABBREVIATIONS AND SYMBOLS

1) Abbreviations of standards, codes, and publications used within the Contract Documents are as follows:

AASHTO	American Association of State Highway and Transportation Officials
ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
NSF	National Sanitation Foundation
KYDOT or KYDOH	Kentucky Transportation Cabinet, Department of Highways

STEEL CASING PIPE

1) Casing pipe shall be steel, plain end, coal tar epoxy coated, have a minimum yield point strength of 35,000 psi and conform to ASTM A 252 Grad 2 or ASTM A 139 Grade B without hydrostatic test, and AWWA C-200 latest revisions.

2) Minimum wall thickness shall be as follows:

<u>CASING DIAMETER</u>	<u>MINIMUM WALL THICKNESS</u>
up to 4 inches	schedule 40
4 to 24 inches	0.250 (1/4) inches

- 3) Casing pipe shall have continuously welded joints. Welds shall be full penetration single butt-welds per AWWA C-200, latest revision.

CASING SPACERS

- 1) Casing spacers shall be polyethylene runners (minimum 3 runners per spacer) attached to a 304 stainless steel mounting ring or solid polyethylene. All associated hardware (nuts, bolts, etc.) shall be stainless steel.

SEED

- 1) Seed shall consist of a lawn mix approximating the following proportions:

bluegrass 30%
lawn fescue ... 60%
redtop 10%

- 2) Seed shall be totally free of any wild onion, giant foxtail, nodding thistle, Johnson grass, and/or Canada thistle seed.
- 3) Seed shall be furnished fully tagged and labeled per applicable state laws and per the U.S. Department of Agriculture rules and regulations under the Federal Seed Act in effect at the date of the Advertisement for Bids.
- 4) No seed will be accepted with a date of more than nine months prior to the date of delivery to the Site.
- 5) Any seed which has become wet, moldy or otherwise damaged in transit or storage will not be accepted.

STRAW

- 1) Straw shall be wheat, oats, barley or rye straw only.
- 2) Straw shall be reasonably free from weeds, seeds, foreign materials, and other grasses and chaff, and shall contain no Johnson grass.
- 3) Straw mulch shall be reasonably bright in color and shall not be musty, moldy, caked or of otherwise low quality.

- 4) Straw shall be dry on delivery.

CONCRETE

- 1) All materials, products and execution for and/or in association with the concrete for this Project, including cement, fine aggregates, coarse aggregates, water, reinforcing steel, etc., shall meet all applicable requirements of KYDOH Standard Specifications.
- 2) Concrete shall be KYDOH class B per KYDOH Standard Specifications.
- 3) Concrete shall be delivered to the job site in a minimum of three yards increments. The job site is in Laurel County, Kentucky in an area generally defined as being north of the City of London, east of Wood Creek Lake, west of new Kentucky Highway 30.

DI FITTINGS

- 1) DI fittings shall be rated at 250 psi working pressure plus water hammer.
- 2) DI fittings shall be ductile cast iron grade 80-60-03 per ASTM A 339-55.
- 3) DI shall be cement lined and bituminous coated per Federal Specification WW-P-42 lb.
- 4) DI Fittings shall be per the following:
 - a) AWWA C110 (fittings)
 - b) AWWA C111/ANSI A 21.11 (gaskets)
 - c) AWWA C115/ANSI A 21.15 (flanged fittings)
- 5) DI Fittings shall include all the necessary accessories (packs when applicable) needed for installation on each item (including, but not limited to, gaskets, flanges, bolts, nuts, washers, etc.)

BLACKTOP

- 1) Blacktop shall meet KYDOH Standard Specifications.

- 2) Blacktop shall be F.O.B. at a blacktop plant located in Laurel County, Kentucky.

PVC PIPE

- 1) PVC pipe shall be rigid, pressure-rated, polyvinyl chloride.
- 2) Pipe shall be homogeneous throughout and free from any defects.
- 3) Pipe shall be green in color.
- 4) Pipe lengths shall be 20 feet.
- 5) Male ends of pipe shall be beveled on the outside.
- 6) Pipe shall have a ring marked around the male ends in such a manner as to allow field checking of setting depth of pipe in the socket.
- 7) PVC (ASTM) pipe shall be extruded from Type 1, Grade 1, PVC material with a hydrostatic design stress of 2000 psi for water at 73.4 degrees F, designated as PVC 1120.
- 8) PVC (ASTM) pipe workmanship, dimensions, tolerances, outside diameters, wall thickness, eccentricity, flattening, marking and all other requirements of Product Standard PS 22-70 shall be conformed to.
- 9) PVC (ASTM) pipe wall thickness shall be greater than 0.090 inches for all pipe 2 inches in diameter or larger.
- 10) PVC (ASTM) pipe shall meet the following ASTM Standards, latest revisions:

D-1784	(PVC compound)
D-3139	(Joint)
D-2241	(PVC pipe)
F-477	(Gasket)
D-1599	(burst pressures)
D-1598	(sustained pressures)
D-2152	(extrusion quality)
D-2444	(impact resistance)
- 11) PVC pipe joints shall be rubber gasket push-on joints constructed integrally with the pipe. Solvent-cement couplings or joints shall not be used.

- 12) The gasket groove shall be constructed such that gasket roll-out will not occur.
- 13) Rubber gaskets shall meet all requirements of ASTM 1869.
- 14) Joint lubricant shall be of a water soluble, non-toxic type recommended by the pipe manufacturer.

VALVES AND ACCESSORIES

- 1) Valves and/or accessories shall be designed for 200 psi water pressure, tested at 300 psi.
- 2) Unless noted otherwise on Bid Schedule, accessories shall be mechanical joint end connections suitable for connection to the pipe with which they are to be used. The dimensions of the bells shall conform to ASA Specifications A21.11 for mechanical joints for cast iron pipe and the strength and thickness shall not be less than that required for bells of Class D of AWWA Specifications. All jointing material and parts for joints shall be furnished with the accessory.
- 3) Screw operated valves shall open by turning to the left, and shall have non-rising stems.
- 4) Valves and accessories shall be Mueller, or OWNER approved equal.

GATE VALVES

- 1) Gate valves shall be manufactured per AWWA C-509.
- 2) Gate valves shall be iron body, fully bronze-mounted, resilient wedge seated per ASTM 2000, with nut operated non-rising stem.
- 3) The valve manufacturer shall certify that the required tests on the various materials and on the completed gate valve and its operating mechanisms have been made, and that the results conform to AWWA
- 4) All interior and exterior ferrous parts of gate valves, except finished or bearing surfaces, shall be fusion coated epoxy per AWWA C550.

TAPPING VALVES AND TAPPING SLEEVES

- 1) Tapping valves for use with tapping sleeves shall be in accordance with the specifications for gate valves, except that one end shall have a flanged connection and the other end a mechanical joint connection. Tapping valves shall open by turning counterclockwise.
- 2) Tapping sleeves shall be as follows:
 - a) Mechanical joint full iron body as manufactured by Mueller; or,
 - b) Stainless steel tapping sleeve with fully gasketed body and stainless steel or ductile iron flanges as manufactured by Mueller.
- 3) Tapping valves and tapping sleeves shall have a maximum working pressure of 200 psi.
- 4) Inlet flanges of tapping valves and outlet flanges of tapping sleeves shall meet ANSI B16.1, Class 125 standard.
- 5) Tapping valves and tapping sleeves shall be in features and quality equal to those of Mueller.

COMBINATION AIR / VACUUM RELEASE VALVES

- 1) Combination air / vacuum release valves shall be Val-Matic model # VN-801SBW or OWNER approved equivalent.

VALVE BOXES

- 1) Valve boxes shall be cast iron Buffalo type, two-piece screw type valve boxes as indicated on Drawings, with lids marked "WATER", suitable for 30 to 36 inches of cover, with appropriate extensions for additional depth.
- 2) Iron castings for valve boxes shall be gray iron per ASTM A 48, Class 20.

END OF MATERIALS SPECIFICATIONS

**WOOD CREEK WATER DISTRICT
WASTEWATER DIVISION**

**HIGHWAY 25 NORTH 2004 SEWER PROJECT
SANITARY SEWER SYSTEM EXTENSIONS
LAUREL COUNTY, KENTUCKY**

RECEIVED

APR 25 2006

PUBLIC SERVICE
COMMISSION



BOARD OF DIRECTORS:

Glenn Williams, Chairman

Carl Keller, Treasurer

Earl Bailey, Secretary

Eula Dalton, Office Manager

Donta Evans, Superintendent

Paul Napier, Superintendent of Wastewater Division

Prepared By:

Wm Kenneth Wilson, PE, PLS

Engineer • Surveyor

902 W. 5th Street
P.O. Box 1169
London, KY 40743-1169
Telephone (606) 862-7612

-ADVERTISEMENT FOR BIDS-

WOOD CREEK WATER DISTRICT: WASTEWATER DIVISION

Sealed BIDS for the execution of the Materials Bid for the Highway 25 North 2004 Sewer Project consisting of supply and delivery of materials will be received by Wood Creek Water District at their offices located at 1670 East Hal Rogers Parkway, P.O. Box 726, London, Kentucky 40741 until 3:00 (local time) on Monday March 14, 2005, and, then, at said office, publicly opened and read aloud.

The contract is described as supply and delivery of materials, as follows:

- Division 1: approximately 250,000 feet of various pipe
- Division 2: miscellaneous fittings for the above pipe
- Division 3: 512 simplex grinder lift stations and 2 duplex grinder lift stations
- Division 4: miscellaneous electrical items for lift station installations
- Division 5: miscellaneous items, including, crushed limestone, D.G.A., concrete, bituminous asphalt, grass seed, straw mulch, concrete block, bag concrete mix, etc.

The CONTRACT DOCUMENTS may be examined at the following locations:

WOOD CREEK WATER DISTRICT, 1670 East Hal Rogers Parkway, London, Kentucky 40741
Wm Kenneth Wilson, PE, PLS, 902 West 5th Street, London, Kentucky 40741

Copies of the CONTRACT DOCUMENTS may be obtained at the office of Wm Kenneth Wilson, PE, PLS at the above address or by telephone at (606)862-7612 or by facsimile at (606)864-2977.

Each BIDDER must deposit with their BID, security in the amount, form and subject to the conditions provided in the CONTRACT DOCUMENTS. The BIDDER awarded the contract shall execute a 20% Payment Bond and shall furnish, as required by the General Conditions, delivery of all required materials to be between May 1, 2005 and June 1, 2005, except blacktop and concrete which are to be delivered as needed. Included with each BID must be a timetable for delivery. A Bid Bond of 10% of the BID amount is required with each BID. BID Bond will be forfeited to WOOD CREEK WATER DISTRICT if delivery time is not met. No BIDDER may withdraw his/her BID within 90 days after the actual date of the opening thereof.

Payment for all materials by WOOD CREEK WATER DISTRICT will be no less than 90 days from delivery of acceptable materials.

WOOD CREEK WATER DISTRICT reserves the right to waive any formalities and/or to reject any or all Bids.

INFORMATION FOR BIDDERS

Each BID must be submitted in a separate sealed envelope, addressed to the OWNER at the address indicated in the advertisement. Each sealed envelope containing a BID must be plainly marked on the outside as BID for: **Highway 25 North 2004 Sewer Project**; and the envelope must also bear on the outside the BIDDER's name, address, phone number, and license number, if applicable. If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at the above address.

PREPARATION OF BIDS:

A BID must be submitted on the prescribed form. BIDS may be copies, but each BID must also be accompanied by original document BID BOND.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within 90 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the OWNER and BIDDER.

The CONTRACT DOCUMENTS contain the provisions required for the BIDDING of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the BIDDER or relieve the Bidder from fulfilling any of the contract.

Each BID must be accompanied by a BID BOND payable to the OWNER for five percent of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the BID BONDS of all except the three lowest responsible BIDDERS. When the Agreement is executed, the bonds of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the PAYMENT BOND and

PERFORMANCE BOND have been executed and approved, after which it will be returned. A certified check may be used in lieu of a BID BOND.

A PERFORMANCE BOND and a PAYMENT BOND, each in the amount of one-hundred percent (100%) of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS or PAYMENT BONDS and PERFORMANCE BONDS must file with each BOND an certified and effective dated copy of their power of attorney. If the Power of Attorney indicates the agent signing BONDS is out-of-state, BOND must be countersigned by a Kentucky resident agent.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the PERFORMANCE BOND and PAYMENT BOND within ten (10) calendar days from the date when NOTICE OF AWARD is delivered to the BIDDER. The NOTICE OF AWARD shall be accompanied by the necessary Agreement and BOND form. In case of failure of the BIDDER to execute the Agreement, the OWNER may consider the BIDDER in default, in which case, the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER, within ten (10) days of receipt of acceptable PERFORMANCE BOND, PAYMENT BOND and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement and return to such party and executed duplicated of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may, by written notice, withdraw the signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by th OWNER.

The NOTICE TO PROCEED shall be issued within ten (10) days of the execution of the agreement by the OWNER. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period, the time may be extended by mutual agreement between the OWNER and BIDDER. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the BIDDER may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as deemed necessary to determine the ability of the BIDDER to supply the specified material(s), and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the Agreement and to supply the specified materials contemplated therein.

A conditional or qualified BID will not be accepted.

Award will be made to the lowest responsible BIDDER separately for each Division, for Division 1 through 4, and for each individual item in Division 5.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Each BIDDER is responsible for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to its BID.

The BIDDER's attention is directed to the fact that all applicable State laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as through herein written out in full.

The low BIDDER shall supply to OWNER in the BID package, the names and addresses of major material suppliers.

BID

Proposal of _____ hereinafter called "BIDDER"), organized and existing under the laws of the State of _____, and doing business as _____*, to the Wood Creek Water District (herein called the "DISTRICT").

In compliance with your Advertisement for Bids, BIDDER hereby proposes to supply materials for the **Highway 25 North 2004 Sewer Project**, in strict accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at the prices stated herein.

By submission of this BID, BIDDER certifies, and in the case of a joint BID each party thereto certifies as to its own organizations, that this BID has been arrived at independently, without consultations, communication, or agreement as to any matter relating to this BID with any other BIDDER or with any competitor.

BIDDER hereby agrees to supply and deliver the materials as outlined in the CONTRACT DOCUMENTS on the dates as specified in the ADVERTISEMENT FOR BIDS. BIDDER further agrees to pay, as liquidated damages, the sum of \$300.00 for each consecutive calendar day after June 1, 2005 that 100% of materials have not been delivered, except concrete and blacktop.

BIDDER agrees to supply and deliver all materials described in the CONTRACT DOCUMENTS for the Unit Prices entered on the following Bid Schedules:

Respectfully submitted,

Signature

Company Name

Title

Address

Date

Employer I.D. No.

Phone

SEAL - (if BID is by a corporation)

*Insert "a corporation", "a partnership", or "an individual" as applicable.

BID SCHEDULES

NOTE: BIDS shall not include sales tax, but shall include any/all other applicable taxes/fees.
Wood Creek Water District's Sales Tax Exemption # is SD-63-101.

DIVISION 1: Bid Items: Collection Mains (Pipe) (per Specifications)					
No.	Quantity	Units	Description	Unit Cost	Item Total
1	14268	LF	8" PVC SDR-21 Pipe (green in color)		
2	31675	LF	6" PVC SDR-21 Pipe (green in color)		
3	13278	LF	4" PVC SDR-21 Pipe (green in color)		
4	69760	LF	3" PVC SDR-21 Pipe (green in color)		
5	9015	LF	2" PVC SDR-21 Pipe (green in color)		
6	100000	LF	1.5" SDR-17 Service Lateral PVC Pipe		
7	1080	EA	3" x 1½" casing spacers		
8	0	LF	12"SDR-21 PVC Casing Pipe		
9	500	LF	10"SDR-21 PVC Casing Pipe		
10	40	LF	8"SDR-21 PVC Casing Pipe		
11	300	LF	6"SDR-21 PVC Casing Pipe		
12	100	LF	4"SDR-21 PVC Casing Pipe		
13	4100	LF	3" SDR-21 PVC Casing Pipe		
14	460	LF	10" Steel Casing Pipe		
15	40	LF	8" Steel Casing Pipe		
16	300	LF	6" Steel Casing Pipe		
17	100	LF	4" Steel Casing Pipe		
18	220	LF	3" Steel Casing Pipe		
19	960	EA	10" x 6" casing spacer		
20	80	EA	8" x 4" casing spacer		
21	600	EA	6" x 3" casing spacer		
22	200	EA	4" x 2" casing spacer		
TOTAL BID					

DIVISION 2: Bid Items:Collection Mains (Fittings, etc.) (per Specifications)					
No.	Quantity	Units	Description	Unit cost	Item Total
1	40	EA	6" RS MJ Gate Valve		
2	12	EA	4" RS MJ Gate Valve		
3	110	EA	3" RS MJ Gate Valve		
4	24	EA	2" RS MJ Gate Valve		
5	186	EA	Valve Box and Lid		
6	12	EA	2" x 2" DI MJ Tee		
7	3	EA	6" x 6" DI MJ Tee		
8	3	EA	6" x 4" DI MJ Tee		
9	22	EA	6" x 3" DI MJ Tee		
10	0	EA	6" x 2.5" DI MJ Tee		
11	4	EA	6" x 2" DI MJ Tee		
12	4	EA	4" x 4" DI MJ Tee		
13	10	EA	4" x 3" DI MJ Tee		
14	5	EA	4" x 2" DI MJ Tee		
15	60	EA	3" x 3" DI MJ Tee		
16	10	EA	3" x 2" DI MJ Tee		
17	6	EA	6" DI MJ 90 Bend		
18	6	EA	6" DI MJ 45 Bend		
19	4	EA	4" DI MJ 90 Bend		
20	4	EA	4" DI MJ 45 Bend		
21	11	EA	3" DI MJ 90 Bend		
22	11	EA	3" DI MJ 45 Bend		
23	2	EA	6" x 4" DI MJ Reducer		
24	1	EA	6" x 3" DI MJ Reducer		
25	5	EA	4" x 3" DI MJ Reducer		
26	3	EA	3" x 2" DI MJ Reducer		
27	37	EA	3" Flg 90 Bend		
28	37	EA	3" Flg x Flg DI Pipe 36"Length		
29	37	EA	3" Flg x Flg DI Pipe 12" Length		

30	37	EA	3" Blind Flg w/ 2.5" Thread Tap		
31	37	EA	2.5" Quick Couple (Brass) w Cover		
32	37	EA	18" Dia. X 30" Clean-out Box		
33	37	EA	18" Dia. Clean-out Box Lid		
34	37	EA	3" Gate Valve MJ X Flg		
35	148	EA	3" Full Face Flange Pack		
36	40	EA	Combination Air/Vacuum Valve		
37	40	EA	36" Dia. Air/Vacuum Vault		
53	40	EA	36" Dia. Air/Vacuum Vault Lid		
54	2	EA	8"x6" Tapping Sleeve (tie-in to existing)		
55	3	EA	6" Tapping Valve		
56	2	EA	6"x6" Tapping Sleeve (tie-in to existing)		
57	3	EA	6"x4" Tapping Sleeve (tie-in to existing)		
58	5	EA	4" Tapping Valve		
59	3	EA	4"x4" Tapping Sleeve (tie-in to existing)		
60	205	EA	6" x 1.5" Lateral Saddle		
61	38	EA	4" x 1.5" Lateral Saddle		
62	231	EA	3" x 1.5" Lateral Saddle		
63	0	EA	2.5" x 1.5" Lateral Saddle		
64	38	EA	2" x 1.5" Lateral Saddle		
65	512	EA	1.5" Ball Corp		
66	512	EA	Curb Box w/Lid		
67	512	EA	15" Lateral Box Lid		
68	512	EA	15" x 30" Lateral Box		
69	40	EA	2" threaded brass ball valve		
70	40	EA	2" threaded brass union		
71	6	EA	6" x 2" threaded tapping saddle or tee		
72	5	EA	4" x 2" threaded tapping saddle or tee		
73	30	EA	3" x 2" threaded tapping saddle or tee		
74	3	EA	2" x 2" threaded tee		
				TOTAL BID	

DIVISION 3: Bid Items: Individual Grinder Stations (per Specifications)					
No.	Quantity	Units	Description	Unit cost	Item Total
1	453	EA	Simplex Grinder Station 30"x60"complete w/Lateral Kit		
2	35	EA	Simplex Grinder Station 30"x72" “		
3	17	EA	Simplex Grinder Station 30"x84" "		
4	4	EA	Simplex Grinder Station 30"x96" "		
5	2	EA	Simplex Grinder Station 30"x108" "		
6	1	EA	Simplex Grinder Station 30"x120" "		
7	2	EA	Duplex Grinder Station 48" x 60" “		
TOTAL BID					

DIVISION 4: Bid Items: Electrical (per specifications)					
No.	Quantity	Units	Description	Unit cost	Item Total
1	512	EA	30 Amp. DP Disconnect (weatherproof)w/Breaker		
2	51200	LF	3/4" Conduit PVC Schd 40		
3	1600	LF	3/4" Conduit PVC Schd 40 Flex-Tite		
4	1024	EA	3/4" Flex-Tite to Box Connectors w/ Locknut		
5	1970	EA	3/4" Conduit PVC Male Adapter Schd 40		
6	512	EA	3/4"Conduit PVC Female Adaper Schd 40		
7	1576	EA	3/4" Conduit PVC Long Sweep 90 Schd 40		
8	2200	EA	3/4" Conduit PVC Coupling Schd 40		
9	3000	EA	3/4" Conduit Strap		
10	3000	EA	3/4" stainless steel Locknuts		
11	61400	LF	10/3 w/grd Romex Electrical Wire		
12	1000	EA	1/2" Wire Staples (Plastic) for 10/3		
13	30	Qt	PVC Cleaner		
14	30	Qt	PVC Glue		
15	40	Tube	Clear Silicone		
16	5000	EA	1" x 1/4" stainless steel lag bolts		
17	5000	EA	1" stainless steel masonry screws (Simpson Strongtie) 5/16" Head		
18	228981	LF	12 Guage THHN Tracer-Locating Wire		
19	512	EA	Electrical Inspection		
TOTAL BID					

DIVISION 5: Miscellaneous Items (per specifications)

**NOTE: Items on this page are bid individually and will be awarded individually.
Bidders may bid one Item or all Items. Award will be on lowest bid for that Item.**

Bid Item: Dense Graded Aggregate (D.G.A.) (per Specifications)

No.	Quantity	Units	Description	Unit cost	Item Total
1	2600	tons	D.G.A. (delivered)		
TOTAL BID					

Bid Item: Crushed Stone Base (per Specifications)

No.	Quantity	Units	Description	Unit cost	Item Total
1	3487	tons	crushed stone base (delivered)		
TOTAL BID					

Bid Item: Concrete per Specifications

No.	Quantity	Units	Description	Unit cost	Item Total
1	550	CY	concrete (delivered)		
TOTAL BID					

Bid Item: Blacktop (Asphalt Paving) per Specifications

No.	Quantity	Units	Description	Unit cost	Item Total
1	575	tons	blacktop (F.O.B. asphalt plant)		
TOTAL BID					

Bid Items: Miscellaneous

No.	Quantity	Units	Description	Unit cost	Item Total
1	1500	LB	Seed		
2	2550	Bale	Straw		
3	300	EA	8"x16" solid concrete block		
4	3585	EA	80 lb. bag concrete mix		
TOTAL BID					

MATERIALS SPECIFICATIONS

GENERAL REQUIREMENTS

- 1) All references to Standard Specifications, or any other outside standards, codes, publications, etc. (i.e. AASHTO, ANSI, ASTM, AWWA, NSF, KYDOT, KYDOH, etc.) shall refer to the latest applicable published edition.
- 2) All materials shall be new and unused.
- 3) Bids shall not include sales tax, but shall include any other applicable tax(es) and/or fees. Wood Creek Water District's Sales Tax Exemption Number is SD-63-101 for tax free purchases.
- 4) Bids for all items shall include all the necessary accessories (packs when applicable) needed for installation on each item (including, but not limited to, gaskets, flanges, bolts, nuts, washers, etc.)
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 - Signature of an authorized agent of a testing agency acceptable to ENGINEER;

- Distinct and clear identification of the lot(s) of material(s) for which tests were performed; and,
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ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
NSF	National Sanitation Foundation
KYDOT or KYDOH	Kentucky Transportation Cabinet, Department of Highways

STEEL CASING PIPE

- 1) Casing pipe shall be steel, plain end, coal tar epoxy coated, have a minimum yield point strength of 35,000 psi and conform to ASTM A 252 Grad 2 or ASTM A 139 Grade B without hydrostatic test, and AWWA C-200 latest revisions.
- 2) Minimum wall thickness shall be as follows:

<u>CASING DIAMETER</u>	<u>MINIMUM WALL THICKNESS</u>
up to 4 inches	schedule 40
4 to 24 inches	0.250 (1/4) inches

- 3) Casing pipe shall have continuously welded joints. Welds shall be full penetration single butt-welds per AWWA C-200, latest revision.

CASING SPACERS

- 1) Casing spacers shall be polyethylene runners (minimum 3 runners per spacer) attached to a 304 stainless steel mounting ring or solid polyethylene. All associated hardware (nuts, bolts, etc.) shall be stainless steel.

SEED

- 1) Seed shall consist of a lawn mix approximating the following proportions:

bluegrass	30%
lawn fescue	...	60%
redtop	10%
- 2) Seed shall be totally free of any wild onion, giant foxtail, nodding thistle, Johnson grass, and/or Canada thistle seed.
- 3) Seed shall be furnished fully tagged and labeled per applicable state laws and per the U.S. Department of Agriculture rules and regulations under the Federal Seed Act in effect at the date of the Advertisement for Bids.
- 4) No seed will be accepted with a date of more than nine months prior to the date of delivery to the Site.
- 5) Any seed which has become wet, moldy or otherwise damaged in transit or storage will not be accepted.

STRAW

- 1) Straw shall be wheat, oats, barley or rye straw only.
- 2) Straw shall be reasonably free from weeds, seeds, foreign materials, and other grasses and chaff, and shall contain no Johnson grass.
- 3) Straw mulch shall be reasonably bright in color and shall not be musty, moldy, caked or of otherwise low quality.

- 4) Straw shall be dry on delivery.

CONCRETE

- 1) All materials, products and execution for and/or in association with the concrete for this Project, including cement, fine aggregates, coarse aggregates, water, reinforcing steel, etc., shall meet all applicable requirements of KYDOH Standard Specifications.
- 2) Concrete shall be KYDOH class B per KYDOH Standard Specifications.
- 3) Concrete shall be delivered to the job site in a minimum of three yards increments. The job site is in Laurel County, Kentucky in an area generally defined as being north of the City of London, east of Wood Creek Lake, west of new Kentucky Highway 30.

DI FITTINGS

- 1) DI fittings shall be rated at 250 psi working pressure plus water hammer.
- 2) DI fittings shall be ductile cast iron grade 80-60-03 per ASTM A 339-55.
- 3) DI shall be cement lined and bituminous coated per Federal Specification WW-P-42 lb.
- 4) DI Fittings shall be per the following:
 - a) AWWA C110 (fittings)
 - b) AWWA C111/ANSI A 21.11 (gaskets)
 - c) AWWA C115/ANSI A 21.15 (flanged fittings)
- 5) DI Fittings shall include all the necessary accessories (packs when applicable) needed for installation on each item (including, but not limited to, gaskets, flanges, bolts, nuts, washers, etc.)

BLACKTOP

- 1) Blacktop shall meet KYDOH Standard Specifications.

- 2) Blacktop shall be F.O.B. at a blacktop plant located in Laurel County, Kentucky.

PVC PIPE

- 1) PVC pipe shall be rigid, pressure-rated, polyvinyl chloride.
- 2) Pipe shall be homogeneous throughout and free from any defects.
- 3) Pipe shall be green in color.
- 4) Pipe lengths shall be 20 feet.
- 5) Male ends of pipe shall be beveled on the outside.
- 6) Pipe shall have a ring marked around the male ends in such a manner as to allow field checking of setting depth of pipe in the socket.
- 7) PVC (ASTM) pipe shall be extruded from Type 1, Grade 1, PVC material with a hydrostatic design stress of 2000 psi for water at 73.4 degrees F, designated as PVC 1120.
- 8) PVC (ASTM) pipe workmanship, dimensions, tolerances, outside diameters, wall thickness, eccentricity, flattening, marking and all other requirements of Product Standard PS 22-70 shall be conformed to.
- 9) PVC (ASTM) pipe wall thickness shall be greater than 0.090 inches for all pipe 2 inches in diameter or larger.
- 10) PVC (ASTM) pipe shall meet the following ASTM Standards, latest revisions:

D-1784	(PVC compound)
D-3139	(Joint)
D-2241	(PVC pipe)
F-477	(Gasket)
D-1599	(burst pressures)
D-1598	(sustained pressures)
D-2152	(extrusion quality)
D-2444	(impact resistance)
- 11) PVC pipe joints shall be rubber gasket push-on joints constructed integrally with the pipe. Solvent-cement couplings or joints shall not be used.

- 12) The gasket groove shall be constructed such that gasket roll-out will not occur.
- 13) Rubber gaskets shall meet all requirements of ASTM 1869.
- 14) Joint lubricant shall be of a water soluble, non-toxic type recommended by the pipe manufacturer.

VALVES AND ACCESSORIES

- 1) Valves and/or accessories shall be designed for 200 psi water pressure, tested at 300 psi.
- 2) Unless noted otherwise on Bid Schedule, accessories shall be mechanical joint end connections suitable for connection to the pipe with which they are to be used. The dimensions of the bells shall conform to ASA Specifications A21.11 for mechanical joints for cast iron pipe and the strength and thickness shall not be less than that required for bells of Class D of AWWA Specifications. All jointing material and parts for joints shall be furnished with the accessory.
- 3) Screw operated valves shall open by turning to the left, and shall have non-rising stems.
- 4) Valves and accessories shall be Mueller, or OWNER approved equal.

GATE VALVES

- 1) Gate valves shall be manufactured per AWWA C-509.
- 2) Gate valves shall be iron body, fully bronze-mounted, resilient wedge seated per ASTM 2000, with nut operated non-rising stem.
- 3) The valve manufacturer shall certify that the required tests on the various materials and on the completed gate valve and its operating mechanisms have been made, and that the results conform to AWWA
- 4) All interior and exterior ferrous parts of gate valves, except finished or bearing surfaces, shall be fusion coated epoxy per AWWA C550.

TAPPING VALVES AND TAPPING SLEEVES

- 1) Tapping valves for use with tapping sleeves shall be in accordance with the specifications for gate valves, except that one end shall have a flanged connection and the other end a mechanical joint connection. Tapping valves shall open by turning counterclockwise.
- 2) Tapping sleeves shall be as follows:
 - a) Mechanical joint full iron body as manufactured by Mueller; or,
 - b) Stainless steel tapping sleeve with fully gasketed body and stainless steel or ductile iron flanges as manufactured by Mueller.
- 3) Tapping valves and tapping sleeves shall have a maximum working pressure of 200 psi.
- 4) Inlet flanges of tapping valves and outlet flanges of tapping sleeves shall meet ANSI B16.1, Class 125 standard.
- 5) Tapping valves and tapping sleeves shall be in features and quality equal to those of Mueller.

COMBINATION AIR / VACUUM RELEASE VALVES

- 1) Combination air / vacuum release valves shall be Val-Matic model # VN-801SBW or OWNER approved equivalent.

VALVE BOXES

- 1) Valve boxes shall be cast iron Buffalo type, two-piece screw type valve boxes as indicated on Drawings, with lids marked "WATER", suitable for 30 to 36 inches of cover, with appropriate extensions for additional depth.
- 2) Iron castings for valve boxes shall be gray iron per ASTM A 48, Class 20.

END OF MATERIALS SPECIFICATIONS