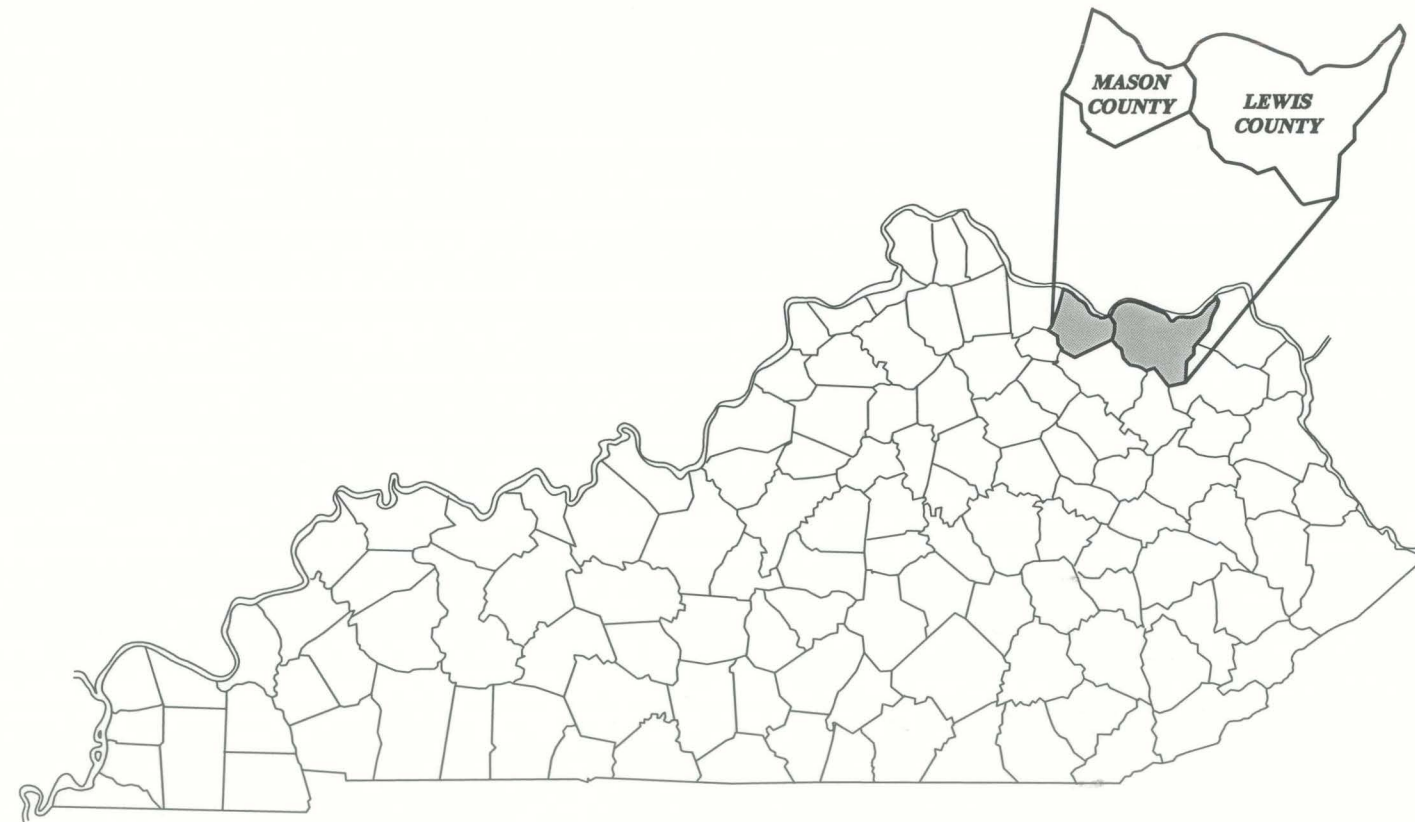


# WESTERN LEWIS-RECTORVILLE PHASE V WATER SYSTEM IMPROVEMENTS MASON & LEWIS COUNTY, KENTUCKY CONTRACT I - WATER LINES



BRANDON G. BAXTER, P.E.  
KENTUCKY REGISTRATION NO. 30,324

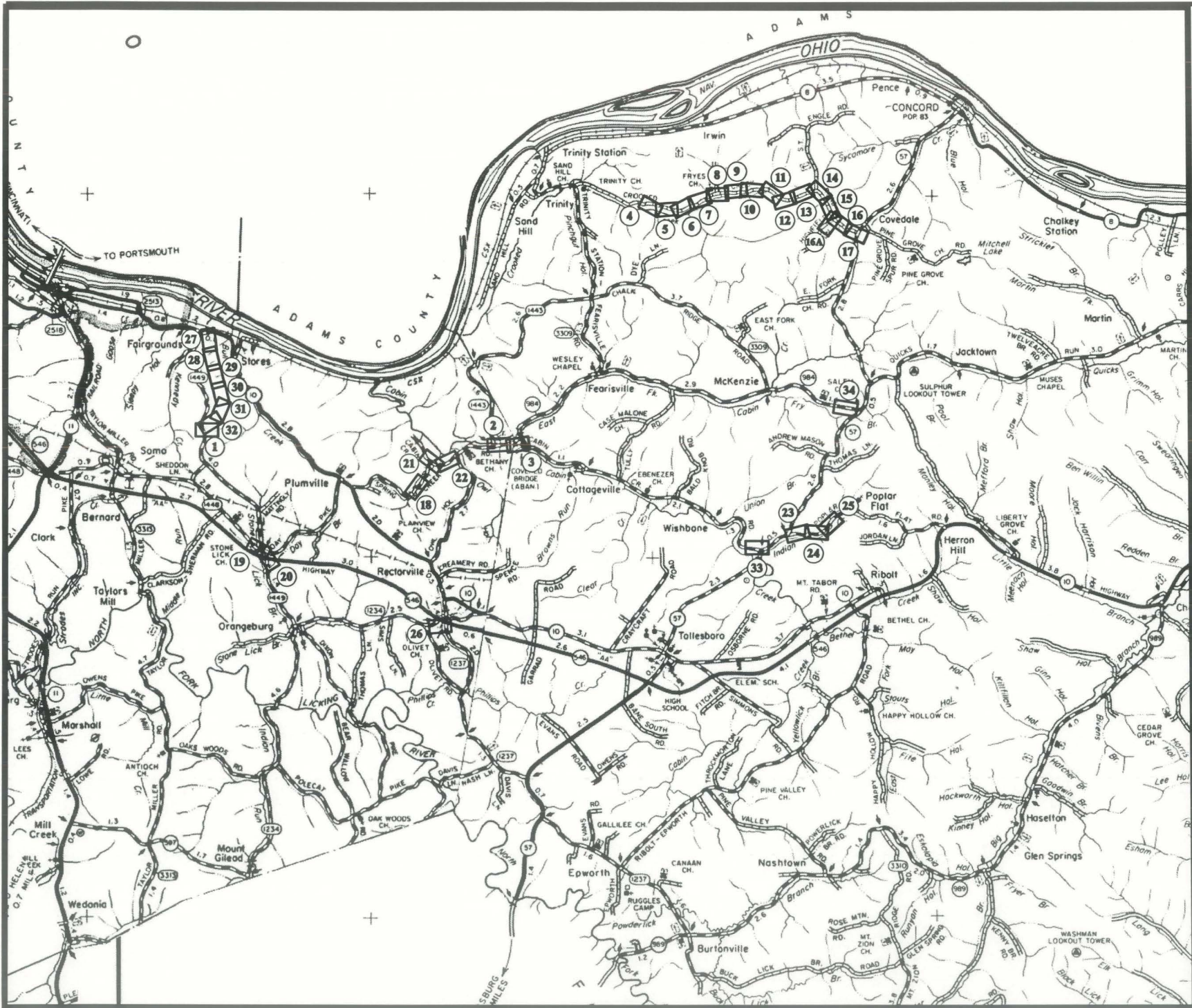
**JANUARY 2016**

Plans Prepared By:



3 HMB Circle (502) 695-9800  
Frankfort, Kentucky Fax (502) 695-9810





LOCATION MAP  
N.T.S.

## GENERAL NOTES

NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN ESTABLISHED. CONTRACTOR SHALL INCLUDE THE COST OF ANY ADDITIONAL DEPTH IN HIS UNIT PRICE WHEN THE WATER PIPE CROSSES UNDER AN EXISTING UTILITY, CULVERT OR DRAINAGE DITCH.

FINAL LOCATION OF SERVICES, AIR RELEASE VALVES, GATE VALVES, HYDRANT ORIENTATION AND OTHER AFFURTEANCES ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE ENGINEER.

HORIZONTAL CONTROL FOR PLAN SHEETS DETERMINED BY U.S.G.S. MAP.

UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INVOLVED INCLUDE, BUT ARE NOT LIMITED TO, TEES, BENDS, PLUGS, REDUCERS, SADDLES, CROSSES, COUPLINGS, ETC. CONTRACTOR SHALL INCLUDE THE COST OF THESE ITEMS IN THE UNIT PRICE FOR THE PIPE.

AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUBSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.

A GENERAL HIGHWAY MAP PREPARED BY THE KENTUCKY DEPARTMENT OF TRANSPORTATION WAS UTILIZED IN THE PREPARATION OF PROJECT MAP.

EXISTING UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED. THEREFORE, DUCTILE IRON PIPE, FITTINGS, GATE VALVES, AND/OR BOXES LAID WITHIN 100' OF THESE LINES WITH CATHODIC PROTECTION SHALL MEET THE REQUIREMENTS OF AWWA C-105, LATEST REVISION. A SEPARATE PAY ITEM HAS NOT BEEN ESTABLISHED. ALL COSTS FOR LABOR AND MATERIALS MUST BE INCLUDED IN THE UNIT PRICE FOR THE PIPE.

ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTORS OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

SOME, BUT NOT ALL, CULVERTS ARE SHOWN. CONTRACTOR SHALL USE CAUTION WHEN WORKING IN THESE AREAS.

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS PRIOR TO PERFORMING DRIVEWAY CUTS IN ORDER TO PROVIDE PROPERTY OWNER ACCESS TO THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL INSTALL THESE DRIVEWAY CROSSINGS WITH EXPEDIENCE AND SHALL RESTORE THE DRIVEWAY AS SOON AS POSSIBLE.

ALL PAVED OR CONCRETE ROADS MAINTAINED BY THE STATE OR COUNTY SHALL BE BORED WITH STEEL CASING PIPE.

ALL TEES, BENDS AND FITTINGS SHALL BE RESTRAINED WITH CONCRETE SEE THRUST RESTRAINT DETAIL.

STATION NUMBERS ON ALL SHEETS ARE MEASURED ALONG CENTER LINE OF ROAD, NOT WATER LINE.

THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN THE EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.

THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THE LOCATIONS OF ANY AND ALL UTILITIES ENCOUNTERED BY THE FINAL ALIGNMENT OF WATER LINE. THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THE EXISTING UTILITIES TO KEEP THEM IN SERVICE. IF UTILITIES ARE SHOWN, THE INFORMATION IS GENERAL IN NATURE AND NOT TO BE TAKEN AS AS-BUILTS. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF LOCAL UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK ON THE PROJECT.

UNLESS OTHERWISE NOTED, WATER LINES SHALL BE LAID ON PRIVATE RIGHT-OF-WAY.

CONTRACTOR SHALL NOT DIG FROM BACK OF DITCH TO EDGE OF PAVEMENT WHERE WATER LINE IS ON PUBLIC RIGHT-OF-WAY.

THE DISTRICT REQUIRES THAT WATER MAINS CROSSING PAVED DRIVEWAYS SHALL BE BORED OR PUSHED WITH NO CASING PIPE.

THE ENGINEER WILL PROVIDE A RESIDENT OBSERVER TO BE ON THE PROJECT AT ALL TIMES.

ALL WATER LINES REQUIRED TO HAVE A MINIMUM 30" COVER. EXCEPT ON STATE/COUNTY ROW, ON STATE ROW, MINIMUM DEPTH SHALL BE AS NOTED ON PLAN SHEETS AND DETAIL SHEETS. ALL LINES INSTALLED IN COUNTY DITCHLINE OR IN UNPAVED COUNTY ROADS SHALL HAVE 40" MINIMUM COVER.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN UP IMMEDIATELY AFTER INSTALLING WATER LINE WHERE MAIN IS TO BE LAID ON STATE ROW. THE FOLLOWING GENERAL NOTES ARE REQUIREMENTS OF COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET PERMIT ENGINEERS. THESE NOTES APPLY WHEN LAYING WATER LINE IN STATE ROW.

ALL WATER LINES BEING PLACED ABOVE CROSS DRAINS NEED TO HAVE AT LEAST ONE (1) FOOT OF SOIL MATERIAL AS A CUSHION BETWEEN LINE AND THE CROSS DRAIN CULVERT.

ALL PROPOSED WATER LINES TO BE PLACED BEHIND ALL PRIVATE AND COMMERCIAL ENTRANCE CULVERTS.

ALL PROPOSED WATER LINES TO BE PLACED AT BACK OF DITCH LINE IN TIGHT AREAS.

ALL RIP RAP DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO PRE-CONSTRUCTION CONDITIONS OR BETTER PER KYTC - DIST. 9 PERSONNEL.

## LEGEND

PROPOSED WATERLINE	
EXISTING WATERLINE	
PROPOSED GATE VALVE	
EXISTING GATE VALVE	
AUTOMATIC AIR RELEASE VALVE	
FIRE HYDRANT / BLOWOFF HYDRANT	
PROPERTY LINE	
BLOWOFF ASSEMBLY	
STREAM	
EXISTING SANITARY SEWER	
EXISTING GAS LINE	
FENCE	
METER SETTING	
METER SETTING WITH PRV	

## SHEET INDEX

GNI	LOCATION MAP, GENERAL NOTES, LEGEND & SHEET INDEX
1	ORANGEBURG 6"UR ROAD REPLACEMENT
2-3	CABIN CREEK EAST LOOP EXTENSION
4-11	CROOKED CREEK LOOP EXTENSION
18	SPRINGDALE ROAD PRV
19-20	STONELICK ROAD METER REPLACEMENT
21-22	CABIN CREEK WEST LOOP EXTENSION
23-25	POPLAR FLAT LOOP EXTENSION
26	JEFFERSON RUN ROAD REPLACEMENT
27-32	LUNDERGAN FARM WATER LINE REPLACEMENT
33	BIG CABIN CREEK PRV REPLACEMENT
34	LITTLE CABIN CREEK PRV REPLACEMENT
PRV-1	PRESSURE REDUCING VALVE VAULT
SD1-SD4	STANDARD DETAILS

PROJECT: 422000 DATE: JAN. 2016 SCALE: AS NOTED					
DESIGNED BY		NAME	DATE		
DRAWN BY		SAB			
CHECKED BY		CAS			
RECORD DUGS.					
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-3800  
(502) 695-3810 FAX



WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

LOCATION MAP, GENERAL NOTES, LEGEND & SHEET INDEX

SHEET  
GNI



**NOTE**

CONNECTION OF NEW ORANGEBURG ROAD SPUR WATER LINE TO EXISTING 6" WATER MAIN SHALL BE COORDINATED WITH CONNECTION OF PROPOSED LUNDERGAN LINE REPLACEMENT AND PERFORMED SIMULTANEOUSLY TO MINIMIZE CUSTOMER SERVICE INTERRUPTION.

EXIST. 6" PVC WATER LINE

EXIST. GAS LINE

EXIST. 2" WATER LINE TO BE ABANDONED

EXIST. WATER METER (TYP.)

2" BLOWOFF ASSEMBLY

2" PVC SDR 17, CL. 250 WATER LINE

LARRY K. PHILLIPS  
8207 ORANGEBURG ROAD  
MAYSVILLE, KY 41056  
D.B. 272, PG. 100  
PVA \*057-00-001-012.00

① JASON W. CALVERT  
8181 ORANGEBURG ROAD  
MAYSVILLE, KY 41056  
D.B. 320, PG. 140  
PVA \*062-HI-03-006.00

② JASON W. CALVERT  
8181 ORANGEBURG ROAD  
MAYSVILLE, KY 41056  
D.B. 320, PG. 140  
PVA \*062-HI-03-003.00

③ HARRY A. RANKIN  
PHYLLIS L. (WF)  
8193 ORANGEBURG ROAD  
MAYSVILLE, KY 41056  
PVA \*062-HI-03-004.00

**NOTE**

RECONNECT EXISTING METERS TO NEW 2" WATER LINE ONCE IT HAS BEEN TESTED AND APPROVED.

LUNDERGAN LINE REPLACEMENT, SEE SHEET 32

**STA. 0+00 INSTALL**

40 L.F. OF 4" STEEL CASING BY BORE  
1-6"x4" TEE  
1-4"x2" REDUCER  
1-2" GATE VALVE  
REMOVE EXISTING TEE, VALVE AND APPURTENANCES.  
REPAIR EXISTING LINE AS REQUIRED

TONY CARL EVANS  
PAULA (WF)  
8180 ORANGEBURG ROAD  
MAYSVILLE, KY 41056  
D.B. 316, PG. 621  
PVA \*062-00-00-034.02

**UTILITY NOTE**

UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS AND ANY OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

**BASE BID**

**WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**ORANGEBURG ROAD SPUR REPLACEMENT**

SHEET

1

PROJECT: 4220.00 DATE: JAN. 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		

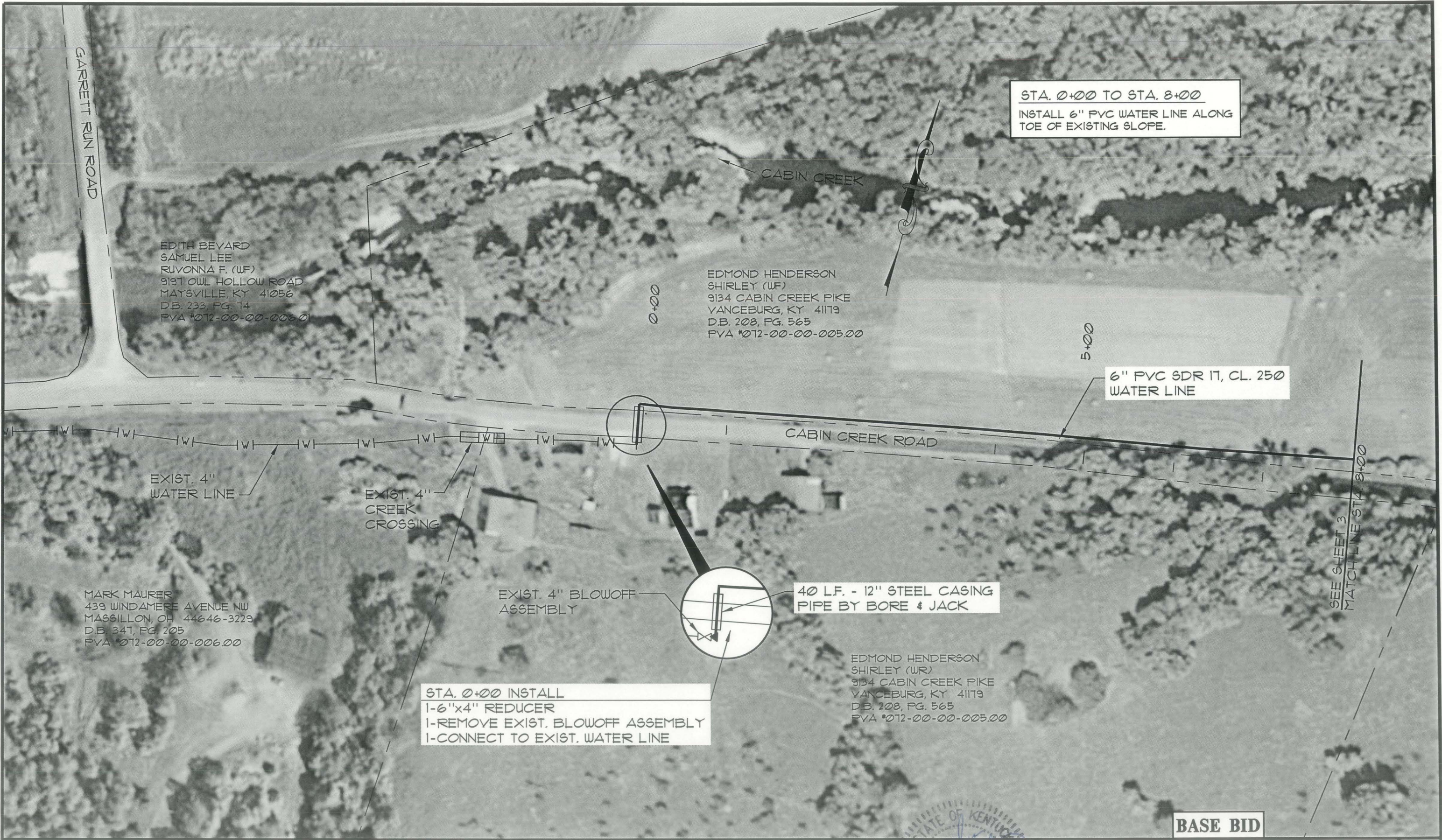


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NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE





STA. 0+00 TO STA. 8+00  
INSTALL 6" PVC WATER LINE ALONG  
TOE OF EXISTING SLOPE.

EDITH BEVARD  
SAMUEL LEE  
RUVONNA F. (WF)  
9191 OWL HOLLOW ROAD  
MAYSVILLE, KY 41056  
D.B. 233, PG. 74  
PVA #072-00-00-00601

EDMOND HENDERSON  
SHIRLEY (WF)  
9134 CABIN CREEK PIKE  
VANCEBURG, KY 41179  
D.B. 208, PG. 565  
PVA #072-00-00-00500

6" PVC SDR 17, CL. 250  
WATER LINE

EXIST. 4"  
WATER LINE

EXIST. 4"  
CREEK  
CROSSING

EXIST. 4" BLOWOFF  
ASSEMBLY

40 L.F. - 12" STEEL CASING  
PIPE BY BORE & JACK

MARK MAURER  
439 WINDAMERE AVENUE NW  
MASSILLON, OH 44646-3229  
D.B. 347, PG. 205  
PVA #072-00-00-00600

STA. 0+00 INSTALL  
1-6"x4" REDUCER  
1-REMOVE EXIST. BLOWOFF ASSEMBLY  
1-CONNECT TO EXIST. WATER LINE

EDMOND HENDERSON  
SHIRLEY (WR)  
9134 CABIN CREEK PIKE  
VANCEBURG, KY 41179  
D.B. 208, PG. 565  
PVA #072-00-00-00500

SEE SHEET 3  
MATCHLINE STA. 8+00

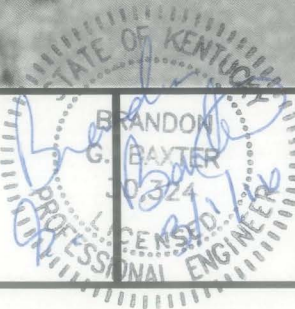
BASE BID

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000	DATE: JAN 2016
SCALE: 1" = 100'	
DESIGNED BY	NAME
DRAWN BY	BGB
CHECKED BY	SAB
RECORD DWGS.	CAS



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WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY  
CABIN CREEK EAST LOOP EXTENSION

SHEET  
2



OWNER NOTE: TO TEST CREEK CROSSING #1  
FOR LEAKS TAPPING VALVE @ STA. 0+00  
(CONNECTION TO CABIN CREEK RD.) MUST  
BE OPENED AND VALVE AT STA. 21+28  
(CONNECTION TO KY 984) MUST BE CLOSED

EDMOND HENDERSON  
SHIRLEY (WF)  
9134 CABIN CREEK PIKE  
VANCEBURG, KY 41179  
D.B. 208, PG. 565  
PVA #072-00-00-005.00

DENNIS C. HUMPHRIES  
824 MAYSVILLE RIDGE ROAD  
MAYSVILLE, KY 41056  
D.B. 209, PG. 580  
PVA #003-00-00-006.00

STA. 8+00 TO STA. 16+00  
INSTALL 6" PVC WATER LINE ALONG  
TOE OF EXISTING SLOPE.

CREEK CROSSING #1  
INSTALL 8" HDPE DR9 WATER LINE  
WITH 12" HDPE DR9 CASING PIPE  
BY DIRECTIONAL DRILLING

6" PVC SDR 17, CL. 250  
WATER LINE

6" GATE VALVE  
W/ TAPS

STA. 21+28 INSTALL  
1-REMOVE EXIST. BLOWOFF & GATE VALVE  
1-6"x6"x6" TEE  
1-FIRE HYDRANT ASSEMBLY  
1-6" GATE VALVE & BOX

EXIST. GATE  
VALVES

EXIST. 6"  
WATER LINE

MELVIN L. HUGHES, JR.  
4284 CABIN CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 169, PG. 11  
PVA #003-00-00-008.00

#### UTILITY NOTE

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FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS  
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BASE BID

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

CABIN CREEK EAST LOOP EXTENSION

SHEET  
3

PROJECT: 422000 DATE: JAN 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWS.		



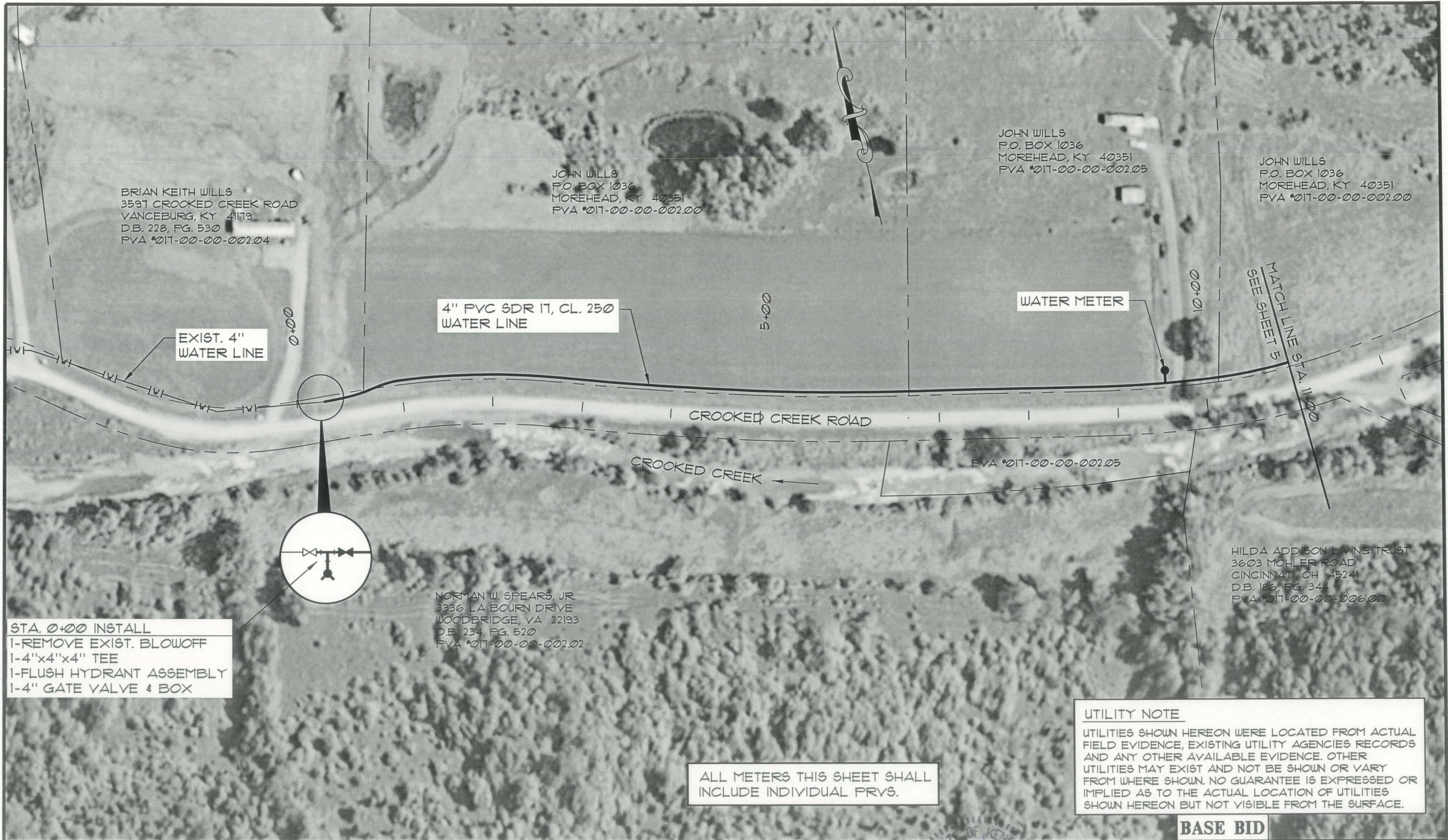
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STA. 0+00 INSTALL  
1-REMOVE EXIST. BLOWOFF  
1-4"x4"x4" TEE  
1-FLUSH HYDRANT ASSEMBLY  
1-4" GATE VALVE & BOX

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRVS.

UTILITY NOTE  
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JOHN WILLS  
P.O. BOX 1036  
MOREHEAD, KY 40351  
PVA #017-00-00-002.05

JOHN WILLS  
P.O. BOX 1036  
MOREHEAD, KY 40351  
PVA #017-00-00-002.00

4" PVC SDR 17, CL. 250  
WATER LINE

CROOKED CREEK ROAD

MATCH LINE STA. 11+00  
SEE SHEET 4

SEE SHEET 6  
MATCH LINE STA. 24+00

HILDA ADDISON LIVING TRUST  
3603 MOHLER ROAD  
CINCINNATI, OH 45241  
D.B. 186, PG. 344  
PVA #017-00-00-006.00

HILDA ADDISON LIVING TRUST  
3603 MOHLER ROAD  
CINCINNATI, OH 45241  
D.B. 186, PG. 344  
PVA #017-00-00-006.00

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRVS.

#### UTILITY NOTE

UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL  
FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS  
AND ANY OTHER AVAILABLE EVIDENCE. OTHER  
UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY  
FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR  
IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES  
SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

BASE BID

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

CROOKED CREEK LOOP EXTENSION

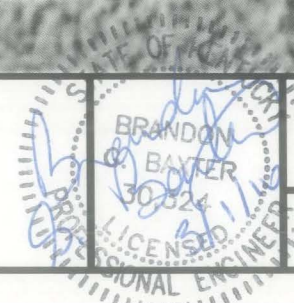
SHEET  
5

PROJECT: 4220.00 DATE: JAN. 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



JOHN WILLS  
P.O. BOX 1036  
MOREHEAD, KY 40351  
FVA \*017-00-00-002.00

JOHN WILLS  
P.O. BOX 1036  
MOREHEAD, KY 40351  
FVA #017-00-00-002.00

HILDA ADDISON LIVING TRUST  
3603 MOHLER ROAD  
CINCINNATI, OH 45241  
D.B. 186, PG. 344  
FVA #017-00-00-006.00

MATCH LINE STA. 24+00  
SEE SHEET 5

SEE SHEET 7  
MATCH LINE STA. 37+00

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRYS.

UTILITY NOTE

UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS AND ANY OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

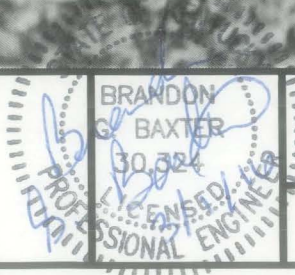
## BASE BID

# WESTERN LEWIS-RECTORVILLE PHASE V WATER SYSTEM IMPROVEMENTS MASON & LEWIS COUNTY, KENTUCKY

## CROOKED CREEK LOOP EXTENSION

[illegible]

3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



SHEET  
6



JOE LANTHORN JR  
2716 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 110, PG. 105  
PVA #017-00-00-001.01

25 L.F. - 8" STEEL CASING  
PIPE BY OPEN CUT

4" GATE VALVE  
& BOX

50 L.F. - 4" CREEK  
CROSSING, TYPE B

MITCHELL CLARK  
P.O. BOX 217  
QUINCY, KY 41666  
D.B. 230, PG. 94  
PVA #017-00-00-001.00

JOHN WILLS  
P.O. BOX 1036  
MOREHEAD KY 40351  
PVA #017-00-00-002.00

JOHN WILLS  
P.O. BOX 1036  
MOREHEAD KY 40351  
PVA #017-00-00-002.00

4" PVC SDR 17, CL. 250  
WATER LINE

4" GATE VALVE  
WITH METER TAPS

CROOKED CREEK ROAD

MATCH LINE STA. 37+00  
SEE SHEET 6

SEE SHEET 8  
MATCH LINE STA. 52+00

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRVS.

**UTILITY NOTE**  
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**BASE BID**

**WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

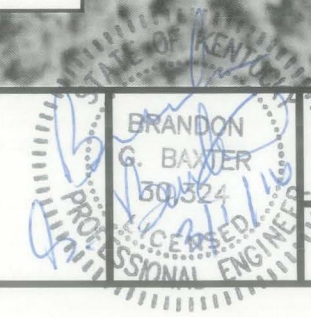
**CROOKED CREEK LOOP EXTENSION**

SHEET  
7

PROJECT: 422000 DATE: JAN. 2016 SCALE: 1" = 100'					
		NAME	DATE		
DESIGNED BY		BGB			
DRAWN BY		SAB			
CHECKED BY		CAS			
RECORD DWS.					
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX





STA. 54+80 INSTALL  
2-4" GATE VALVE & BOX  
1-4"x4"x4" TEE  
1-FIRE HYDRANT ASSEMBLY

MITCHELL CLARK  
P.O. BOX 211  
QUINCY, KY 41166  
D.B. 230, PG. 34  
PVA #017-00-00-00100

BRENDA CLARK  
2440 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
PVA #017-00-00-00900

DAVID RUE LANTHORN  
370 TRINITY STATION  
VANCEBURG, KY 41179  
D.B. 208, PG. 515  
PVA #017-00-00-01000

4" PVC SDR 17, CL. 250  
WATER LINE

WATER METER

EXIST. 12" DRAINAGE  
STRUCTURE

WATER METER

EXIST. 36" DRAINAGE  
STRUCTURE

JOHN WILLS  
P.O. BOX 1036  
MOREHEAD KY 40351  
PVA #017-00-00-00200

JERRY H. CLARK  
CONNIE (WF)  
4825 TRINITY STATION  
VANCEBURG, KY 41179  
D.B. 155, PG. 331  
PVA #017-00-00-00800

ALL METERS THIS SHEET SHALL  
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**BASE BID**

**WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**CROOKED CREEK LOOP EXTENSION**

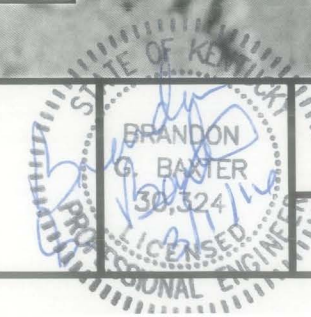
SHEET  
8

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016 SCALE: 1" = 100'		
DESIGNED BY	BGB	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DUGS.		

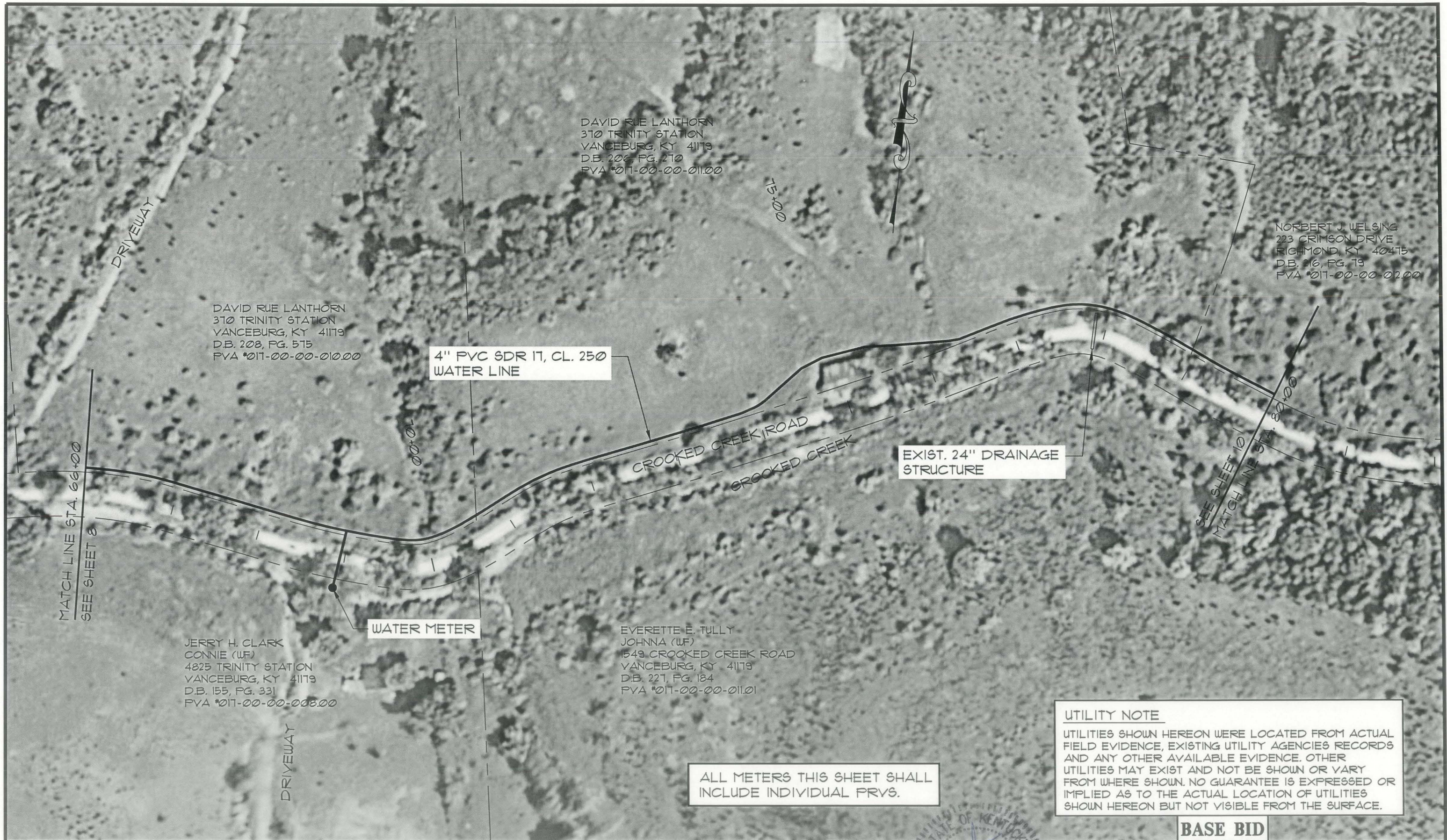


3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX





P:\engr\m4220\LAU\WESTERN LEWIS RECTORVILLE.dwg



ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRVS.

**UTILITY NOTE**  
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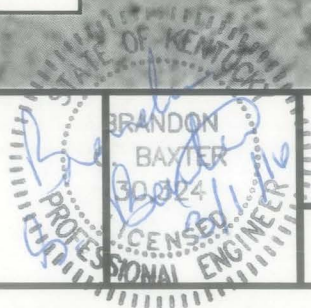
**WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**  
**CROOKED CREEK LOOP EXTENSION**

SHEET  
9

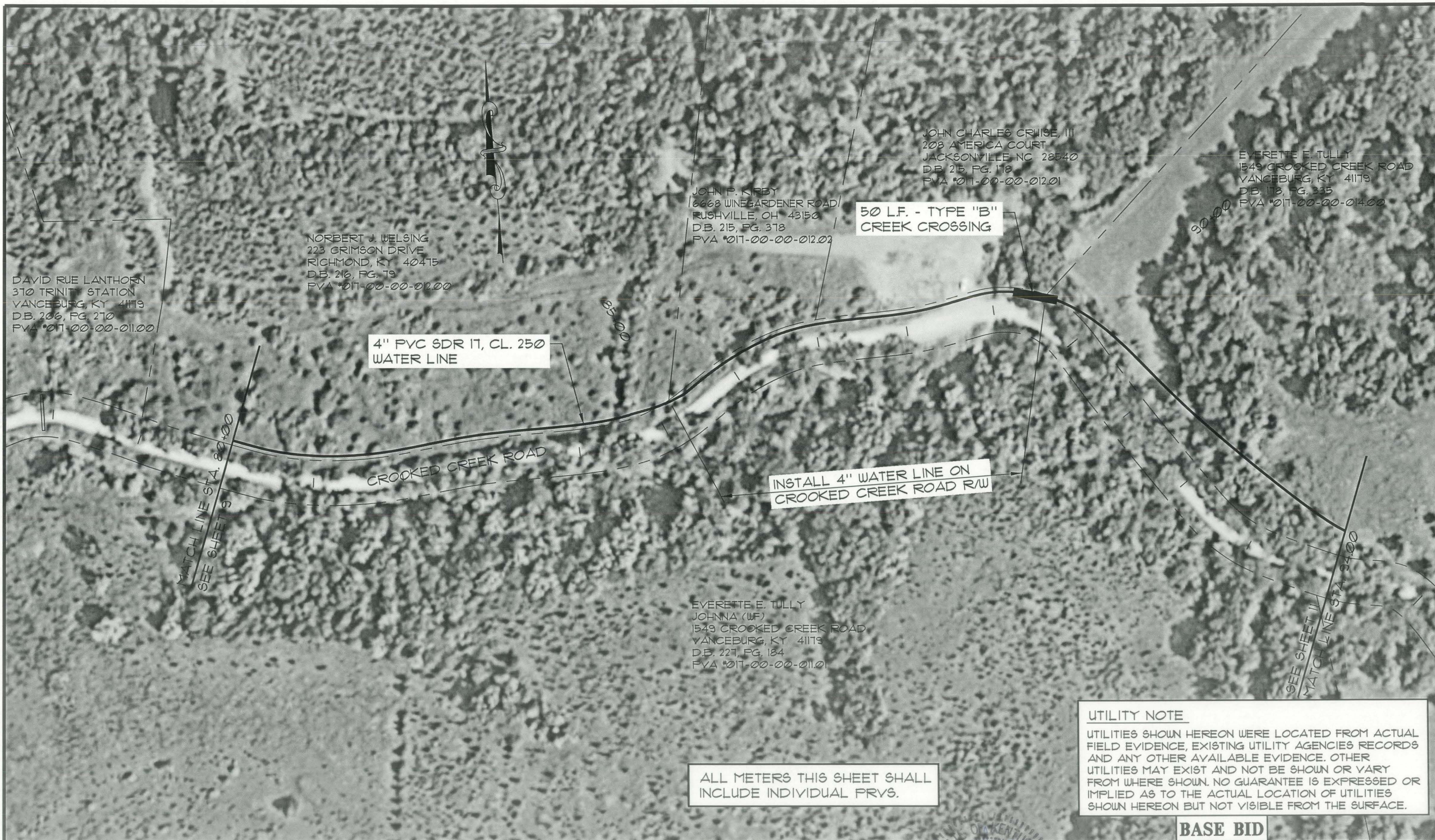
PROJECT: 422000 DATE: JAN. 2016 SCALE: 1" = 100'					
		NAME	DATE		
DESIGNED BY		BGB			
DRAWN BY		SAB			
CHECKED BY		CAS			
RECORD DUGS.					
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX





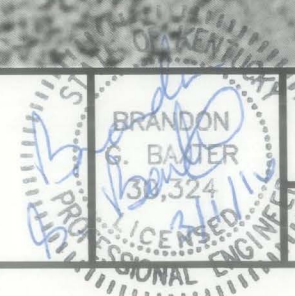


NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4220.00 DATE: JAN. 2016		
SCALE: 1" = 100'		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



**WESTERN LEWIS-RECTORVILLE**  
**PHASE V WATER SYSTEM IMPROVEMENTS**  
**MASON & LEWIS COUNTY, KENTUCKY**  
**CROOKED CREEK LOOP EXTENSION**

SHEET  
10

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRVS.

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**BASE BID**

DAVID RUE LANTHORN  
370 TRINITY STATION  
VANCEBURG, KY 41179  
D.B. 206, PG. 270  
PVA #017-00-00-011.00

NORBERT J. WELSHING  
223 GRIMSON DRIVE  
RICHMOND, KY 40415  
D.B. 216, PG. 79  
PVA #017-00-00-012.00

JOHN P. KIRBY  
6668 WINEGARDNER ROAD  
RUSHVILLE, OH 43150  
D.B. 215, PG. 378  
PVA #017-00-00-012.02

JOHN CHARLES CRUISE, III  
208 AMERICA COURT  
JACKSONVILLE, NC 28540  
D.B. 215, PG. 118  
PVA #017-00-00-012.01

EVERETTE E. TULLY  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 178, PG. 335  
PVA #017-00-00-014.00

50 L.F. - TYPE "B"  
CREEK CROSSING

4" PVC SDR 17, CL. 250  
WATER LINE

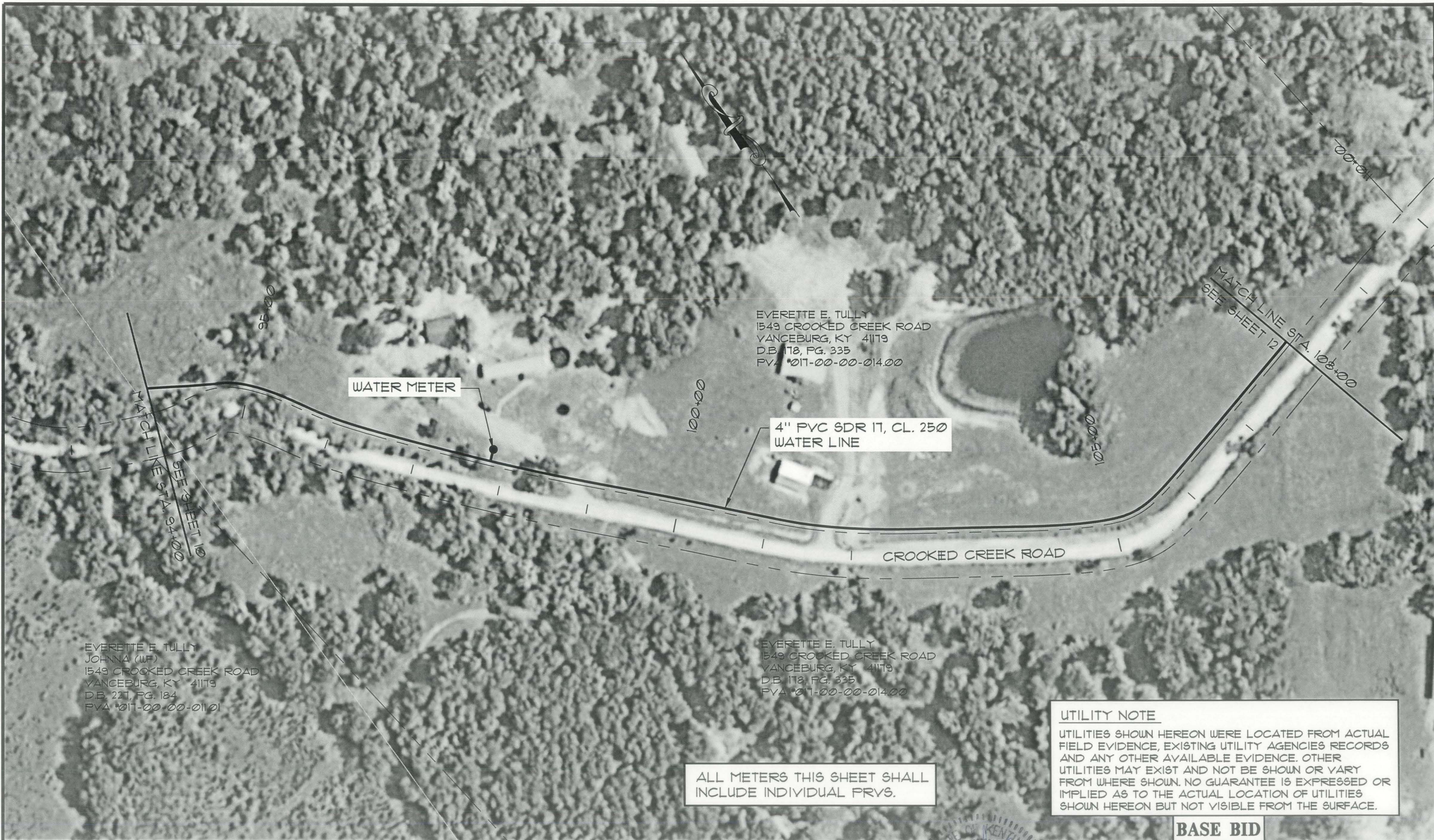
INSTALL 4" WATER LINE ON  
CROOKED CREEK ROAD R/W

EVERETTE E. TULLY  
JOHNNA (WF)  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 227, PG. 184  
PVA #017-00-00-011.01

MATCH LINE STA. 80+00  
SEE SHEET 9

SEE SHEET 11  
MATCH LINE STA. 34+00





EVERETTE E. TULLY  
JOHNNA (WF)  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 221, PG. 184  
PVA #017-00-00-01101

EVERETTE E. TULLY  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 178, PG. 335  
PVA #017-00-00-01400

4" PVC SDR 17, CL. 250  
WATER LINE

EVERETTE E. TULLY  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 178, PG. 335  
PVA #017-00-00-01400

ALL METERS THIS SHEET SHALL  
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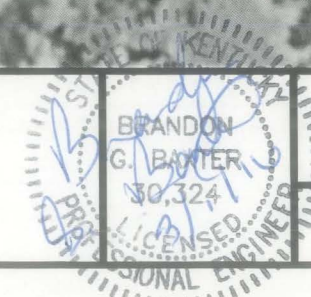
**BASE BID**

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016		
SCALE: 1" = 100'		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DUGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



**WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**  
**CROOKED CREEK LOOP EXTENSION**

SHEET  
11

P:\engr\wv4220\CAU\WES 1EKN LEWIS REC\UKVILLE.dwg



EVERETTE E. TULLY  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 118, PG. 335  
PVA #017-00-00-014.00

TINA S. TULLEY  
485 H. VOIERS LANE  
TOLLESBORO, KY 41189  
PVA #017-00-00-014.01

EVERETTE E. TULLY  
JOHNNA (WF)  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 210, PG. 339  
PVA #020-00-00-012.03

MATCH LINE STA. 108+00  
SEE SHEET 11

WATER METER

4" PVC SDR 17, CL. 250  
WATER LINE

CROOKED CREEK ROAD

MATCH LINE STA. 121+00  
SEE SHEET 13

EVERETTE E. TULLY  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 118, PG. 335  
PVA #017-00-00-014.00

EVERETTE E. TULLY  
JOHNNA (WF)  
1549 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 209, PG. 174  
PVA #021-00-00-003.00

RALPH I. LATHAM  
5200 ROLSTON AVENUE  
CINCINNATI, OH 45212  
D.B. 215, PG. 602  
PVA #021-00-00-003.06

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRYS.

#### UTILITY NOTE

UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL  
FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS  
AND ANY OTHER AVAILABLE EVIDENCE. OTHER  
UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY  
FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR  
IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES  
SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

BASE BID

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

CROOKED CREEK LOOP EXTENSION

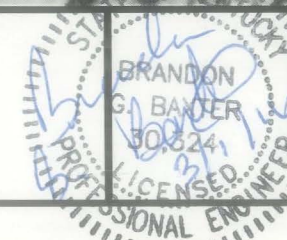
SHEET  
12

PROJECT: 422000 DATE: JAN. 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DUGS.		



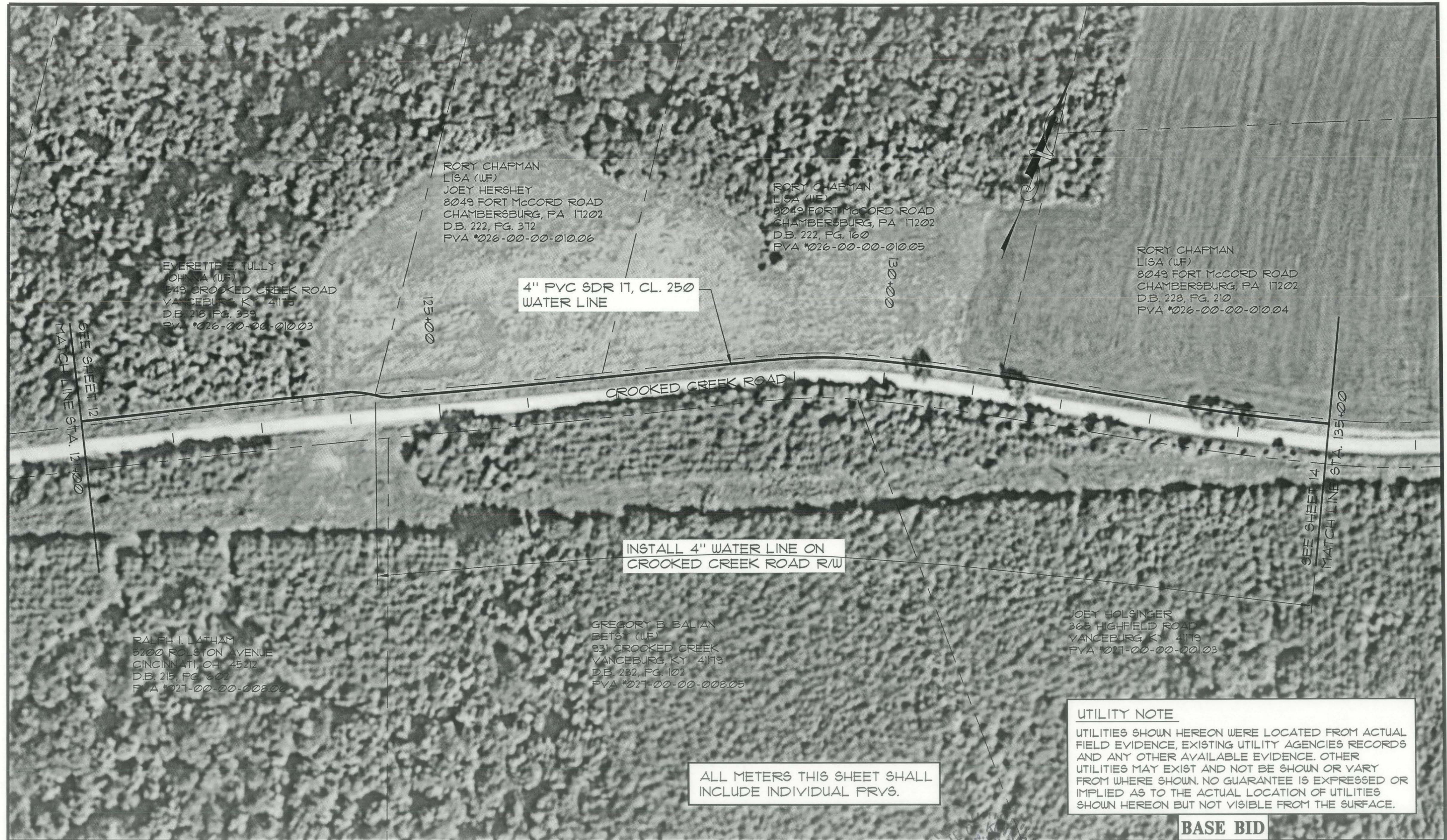
3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



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ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRYS.

**UTILITY NOTE**  
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NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN 2016		
SCALE: 1" = 100'		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWS.		



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FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



**BASE BID**

**WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**CROOKED CREEK LOOP EXTENSION**

SHEET
13



JOSEPH PELTIER  
3008 SOUTH RIVERBEND ROAD  
ARLINGTON, TX 76014  
D.B. 219, PG. 412  
PVA #026-00-00-011.00

INSTALL  
1-4"x4" TEE  
3-4" GATE VALVES  
1-FLUSH HYDRANT ASSEMBLY

JOSEPH PELTIER  
3008 SOUTH RIVERBEND ROAD  
ARLINGTON, TX 76014  
D.B. 228, PG. 617  
PVA #026-00-00-001.00

4" PVC SDR 17, CL. 250  
WATER LINE

40 L.F. - 8" STEEL CASING  
PIPE BY ROAD BORE

RORY CHAPMAN  
LISA (WF)  
8043 FORT McCORD ROAD  
CHAMBERSBURG, PA 17202  
D.B. 228, PG. 210  
PVA #026-00-00-010.04

WATER METER

EXIST. DRAINAGE  
STRUCTURE

JOEY HOLINGER  
265 HIGHFIELD ROAD  
VANCEBURG, KY 41179  
PVA #027-00-00-001.03

INSTALL 4" WATER LINE ON  
CROOKED CREEK ROAD R/W

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRYS.

#### UTILITY NOTE

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BASE BID

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

CROOKED CREEK LOOP EXTENSION

SHEET  
14

PROJECT: 422000 DATE: JAN 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



P:\engr\m4200\CAU\WESTERN LEWIS RECTORVILLE.DWG



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN 2016		
SCALE: 1" = 100'		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



BASE BID	
WESTERN LEWIS-RECTORVILLE PHASE V WATER SYSTEM IMPROVEMENTS MASON & LEWIS COUNTY, KENTUCKY	
CROOKED CREEK LOOP EXTENSION	

SHEET
15



GREGORY B. BALIAN  
BETSY (WF)  
931 CROOKED CREEK  
VANCEBURG, KY 41179  
D.B. 232, PG. 102  
PVA #021-00-00-001.01

STA. 165+36 INSTALL  
1-4"x2" TEE  
1-2" GATE VALVE

WARREN O'CONNELL  
MARY (WF)  
REVOCABLE TRUST  
167 O'CONNELL DRIVE  
VANCEBURG, KY 41179  
D.B. 205, PG. 631  
PVA #021-00-00-004.00

INSTALL 4" WATER LINE ON  
CROOKED CREEK ROAD R/W

4" PVC SDR 17, CL. 250  
WATER LINE

ALAN RUARK  
THERESA (WF)  
170 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 208, PG. 345  
PVA #021-00-00-001.00

TIMOTHY R LEWIS  
2587 W KY 8  
VANCEBURG, KY 41179  
D.B. 229, PG. 186  
PVA #021-00-00-003.04

ALAN RUARK  
THERESA (WF)  
170 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 230, PG. 282  
PVA #021-00-00-003.13

EXIST. 48" DRAINAGE  
STRUCTURE

JERRY WALKER  
SHEILA (WF)  
12910 W KY 8  
VANCEBURG, KY 41179  
D.B. 233, PG. 24  
PVA #021-00-00-003.01

ALAN RUARK  
THERESA (WF)  
170 CROOKED CREEK ROAD  
VANCEBURG, KY 41179  
D.B. 231, PG. 299  
PVA #021-00-00-003.14

SEE SHEET 16A FOR  
SERVICE LINE

ALL METERS THIS SHEET SHALL  
INCLUDE INDIVIDUAL PRVS.

UTILITY NOTE

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BASE BID

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

CROOKED CREEK LOOP EXTENSION

SHEET  
16

PROJECT: 422000 DATE: JAN. 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



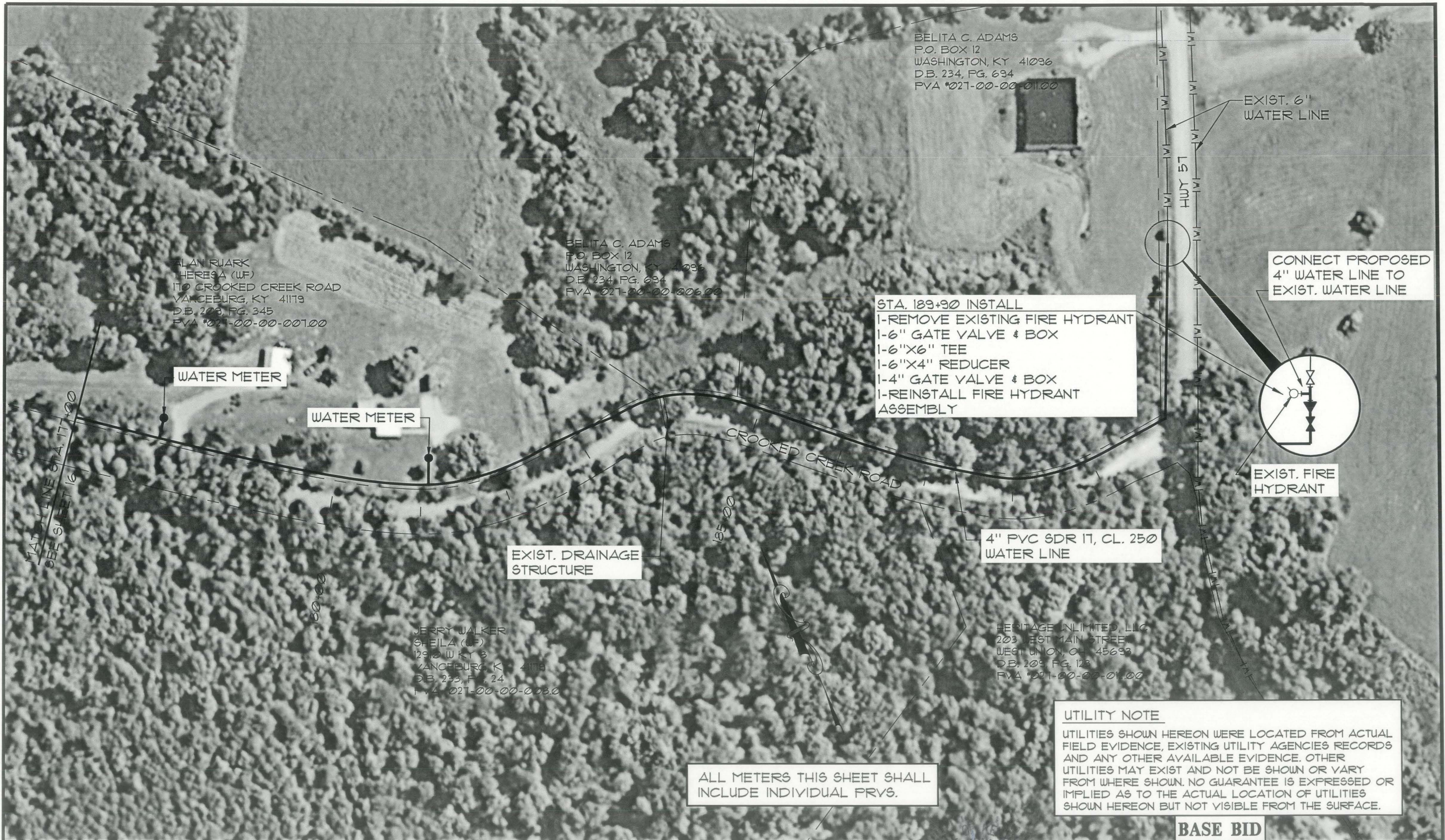


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NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016		
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DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DUGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



BASE BID

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

CROOKED CREEK LOOP EXTENSION

SHEET
17





RICHARD A. HORDE  
CARILYN J. (WF)  
9152 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 222 PG. 585  
EVA #012-00-00-011.00

RICHARD A. HORDE  
CARILYN J. (WF)  
9152 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 222 PG. 585  
EVA #012-00-00-011.00

PROPOSED SPRINGDALE  
ROAD PRV VAULT  
SEE DETAIL SHEET PRV-1

EXIST 6" C900  
WATER LINE

UTILITY NOTE

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BASE BID

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PROJECT: 422000 DATE: JAN 2016  
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	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DUGS.		



3 HMB CIRCLE  
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WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

SPRINGDALE ROAD PRV

SHEET  
18

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# NOTE

CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS WHEN CONNECTING TO EXIST. SERVICE LINE TO FINALIZE ROUTE OF NEW SERVICE LINE. CONTRACTOR MUST RE-CONNECT EXISTING SERVICE LINE TO NEW METER AND INSTALL NEW SERVICE LINE ON CUSTOMER SIDE OF METER UTILIZING LICENSED PLUMBER.

NOTE: CONTRACTOR TO CONNECT TO EXISTING 3/4" VALVE AND EXTEND SERVICE LINE TO PROPOSED NEW WATER METER

3/4" SERVICE LINE

ASHLEY SMITH  
8367 STONELICK ROAD  
MAYSVILLE, KY 41056  
D.B. 347, PG. 328  
PVA #0H-01-010.01

EXISTING 3/4" VALVE IN DITCH

WATER METER (TYP.)

STONELICK ROAD KY 1448

EXISTING 3/4" SERVICE LINE

INSTALL FIRE HYDRANT ON EXIST. 8" WATER LINE

EXIST. 8" WATER LINE

ROBERT JOLLY  
VIOLET (WF)  
7328 AA HIGHWAY  
MAYSVILLE, KY 41056  
PVA #063-00-00-019.00

DIAMOND DEVELOPMENT, INC.  
ATTN: TAX DEPT.  
1065 WOODMAN DRIVE  
DAYTON, OH 45432  
D.B. 330, PG. 201  
PVA #063-00-00-021.00

① LOUIS REESE, JR  
8373 STONELICK ROAD  
MAYSVILLE, KY 41056  
D.B. 373, PG. 373  
PVA #063-OH-01-010.00

④ WAYNE WILLIAMS  
SUSAN (WF)  
8381 STONELICK ROAD  
MAYSVILLE, KY 41056  
PVA #063-OH-01-013.00

WILLIAM R. HUDDLESTON, III  
3052 BIG POND PIKE  
MAYSVILLE, KY 41056  
D.B. 348, PG. 102  
PVA #063-00-00-020.00

② GEORGE McDOWELL LIFE ESTATE  
8377 STONELICK ROAD  
MAYSVILLE, KY 41056  
D.B. 295, PG. 595  
PVA #063-OH-01-011.00

⑤ TIMOTHY J. SAUNDERS  
8383 STONELICK ROAD  
MAYSVILLE, KY 41056  
D.B. 322, PG. 199  
PVA #063-OH-01-014.00

③ LARRY R. IRWIN  
GLORIA R. (WF)  
8379 STONELICK ROAD  
MAYSVILLE, KY 41056  
D.B. 262, PG. 549  
PVA #063-OH-01-012.00

⑥ TARA W. GRAVES  
8389 STONELICK ROAD  
MAYSVILLE, KY 41056  
D.B. 314, PG. 779  
VA #063-OH-01-015.00

## NOTE

PROPOSED SERVICE LINE ROUTE SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINAL ROUTE AFTER CONSULTATION WITH PROPERTY OWNER AND FOR MAKING CONNECTION TO EXISTING SERVICE LINE AND CAPPING/ABANDONING OLD SERVICE LINE.

## UTILITY NOTE

UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS AND ANY OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

AA HIGHWAY KY 9

ALTERNATE

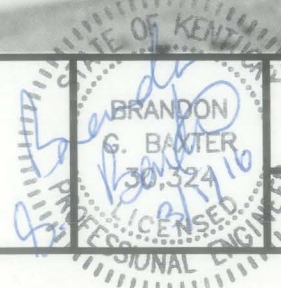
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PROJECT: 422000 DATE: JAN. 2016  
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3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
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(502) 695-9810 FAX



WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

STONELICK ROAD METER REPLACEMENT

SHEET  
19





NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016		
SCALE: 1" = 100'		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DUGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX

PROFESSIONAL  
ENGINEERS, INC.



BRANDON  
B. BAXTER  
30324  
PROFESSIONAL ENGINEER

ALTERNATE

WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

STONELICK ROAD METER REPLACEMENT

P:\engr\44220\44220\WESTERN LEWIS RECTORVILLE.dwg



STA. 0+00 INSTALL  
1-WET TAP EXIST. 6" WATER LINE

STA. 2+50 TO STA. 13+00  
INSTALL 6" PVC WATER LINE  
ALONG TOE OF EXIST. SLOPE

OWNER NOTE : TO TEST CREEK CROSSING #1 FOR  
LEAKS TAPPING VALVE @ STA. 0+00  
(CONNECTION TO SPRINGDALE RD.) MUST BE  
CLOSED AND VALVE AT STA. 24+85 (CONNECTION  
TO OWL HOLLOW) MUST BE OPEN.

MATCH LINE STA. 13+00  
SEE SHEET 22

RICHARD HORD  
9152 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 202, PG. 343  
PVA #012-00-00-010.00

6" PVC SDR 17, CL. 250  
WATER LINE

RICHARD HORD  
9152 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 208, PG. 31  
PVA #012-00-00-011.03

CREEK CROSSING #1  
INSTALL 8" HDPE DR9 WATER LINE  
WITH 12" HDPE DR9 CASING PIPE  
BY DIRECTIONAL DRILLING

6" GATE VALVE  
W/ TAPS

3/4" SERVICE LINE BY  
BORE W/ 2" PVC CASING

RECONNECT EXIST.  
WATER METER TO NEW  
6" PVC WATER LINE

EXIST. 6" C900  
WATER LINE

RICHARD HORD  
9152 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 208, PG. 31  
PVA #012-00-00-011.03

RICHARD HORD  
9152 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 202, PG. 343  
PVA #012-00-00-010.00

LAVETA BURTON  
PHYLLIS MASTIN  
9011 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 199, PG. 586  
PVA #012-00-00-009.00

UTILITY NOTE  
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FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS  
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SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

ALTERNATE

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX

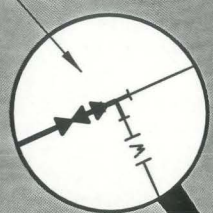


WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

CABIN CREEK WEST LOOP EXTENSION



STA. 24+85 INSTALL  
1-6" GATE VALVE & BOX  
1-6"x4" REDUCER  
1-4"x4"x4" TEE  
1-CONNECT TO EXIST. 4" PVC WATER LINE



EXIST. 4" PVC  
SDR-17 WATER LINE  
(LOCATED IN R/W)

RICHARD HORD  
9152 SPRINGDALE ROAD  
MAYSVILLE, KY 41056  
D.B. 202, PG. 343  
PVA #072-00-00-010.00

6" PVC SDR 17, CL. 250  
WATER LINE

EXIST. 8" STEEL CASING

SAMUEL LEE BEYARD  
9195 OWL HOLLOW ROAD  
MAYSVILLE, KY 41056  
PVA #072-00-00-003.00

EXIST. 4" GATE VALVE

EXIST. 4" PVC  
SDR-17 WATER LINE

LAVETA BURTON  
PHYLLIS MASTIN  
9017 SPRINGDALE ROAD  
MAYSVILLE KY 41056  
D.B. 199 PG. 586  
PVA #072-00-00-003.00

**UTILITY NOTE**  
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ALTERNATE

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

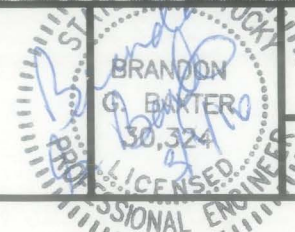
CABIN CREEK WEST LOOP EXTENSION

SHEET  
22

						PROJECT: 4220.00 DATE: JAN 2016	
						SCALE: 1" = 100'	
				DESIGNED BY	NAME	DATE	
				DRAWN BY	SAB		
				CHECKED BY	CAS		
				RECORD DWGS.			
NO.	DATE	REVISIONS		CHK'D	AFFR'D	DATE	



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX





STACY D. LYKINS  
P.O. BOX 136  
TOLLESBORO, KY 41189  
D.B. 196, PG. 668  
PVA #019-00-00-01700

VICKI LOU FRALEY  
189 KY 57  
VANCEBURG, KY 41179  
D.B. 228, PG. 59  
PVA #019-00-00-01007

DARRELL W. FANNIN  
938 CRAYCRAFT ROAD  
TOLLESBORO, KY 41189  
D.B. 241, PG. 675  
PVA #019-00-00-01100

STA. 0+00 INSTALL  
1-6"x4" WET TAP

EXIST. GATE  
VALVE

EXIST. 6"  
WATER LINE

VICKI LOU FRALEY  
189 KY 57  
VANCEBURG, KY 41179  
D.B. 228, PG. 59  
PVA #019-00-00-01007

40 L.F. - 8" STEEL CASING  
PIPE BY BORE & JACK

30 L.F. - TYPE "B"  
CREEK CROSSING

4" PVC SDR 17, CL. 250  
WATER LINE

DENISE K. ASH  
2740 POPLAR FLAT ROAD  
TOLLESBORO, KY 41189  
D.B. 110, PG. 421  
PVA #023-00-00-01400

KENNETH THOROUGHMAN  
1391 LITTLE CABIN CREEK  
VANCEBURG, KY 41179  
PVA #023-00-00-01500

SAMUEL M. WRIGHT  
168 CANAAN CHURCH SPUR  
TOLLESBORO, KY 41189  
D.B. 235, PG. 329  
PVA #020-00-00-01000

#### UTILITY NOTE

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ALTERNATE

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

POPLAR FLAT LOOP EXTENSION

SHEET  
23

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016 SCALE: 1" = 100'		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



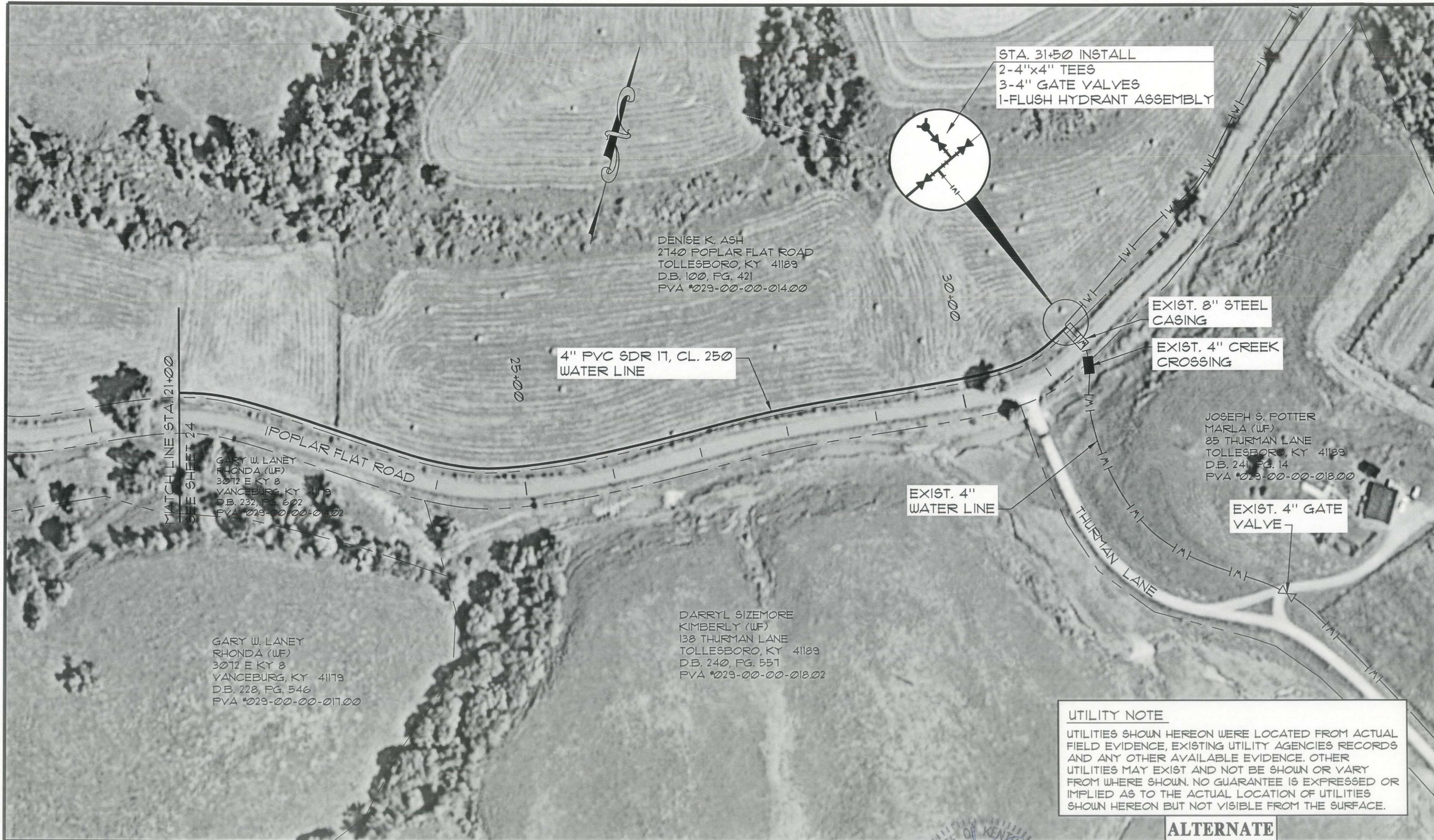




PROJECT: 422000 DATE: JAN 2016 SCALE: 1" = 100'						 3 HMB CIRCLE FRANKFORT, KENTUCKY (502) 695-9800 (502) 695-9810 FAX				<b>ALTERNATE</b> <b>WESTERN LEWIS-RECTORVILLE</b> <b>PHASE V WATER SYSTEM IMPROVEMENTS</b> <b>MASON &amp; LEWIS COUNTY, KENTUCKY</b> <b>POPLAR FLAT LOOP EXTENSION</b>		SHEET 24
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE	DESIGNED BY	NAME	DATE				
						DRAWN BY	SAB					
						CHECKED BY	CAS					
						RECORD DUGS.						

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STA. 31+50 INSTALL  
2-4"x4" TEES  
3-4" GATE VALVES  
1-FLUSH HYDRANT ASSEMBLY

DENISE K. ASH  
2740 POPLAR FLAT ROAD  
TOLLESBORO, KY 41189  
D.B. 100, PG. 421  
PVA #029-00-00-014.00

4" PVC SDR 17, CL. 250  
WATER LINE

EXIST. 8" STEEL  
CASING

EXIST. 4" CREEK  
CROSSING

JOSEPH S. POTTER  
MARLA (WF)  
85 THURMAN LANE  
TOLLESBORO, KY 41189  
D.B. 241 PG. 14  
PVA #029-00-00-018.00

EXIST. 4"  
WATER LINE

EXIST. 4" GATE  
VALVE

MATCH LINE STA. 21+00  
SEE SHEET 24

GARY W. LANEY  
RHONDA (WF)  
3072 E KY 8  
VANCEBURG, KY 41179  
D.B. 232, PG. 602  
PVA #029-00-00-014.02

GARY W. LANEY  
RHONDA (WF)  
3072 E KY 8  
VANCEBURG, KY 41179  
D.B. 228, PG. 546  
PVA #029-00-00-017.00

DARRYL SIZEMORE  
KIMBERLY (WF)  
138 THURMAN LANE  
TOLLESBORO, KY 41189  
D.B. 240, PG. 551  
PVA #029-00-00-018.02

UTILITY NOTE

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ALTERNATE

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

POPLAR FLAT LOOP EXTENSION

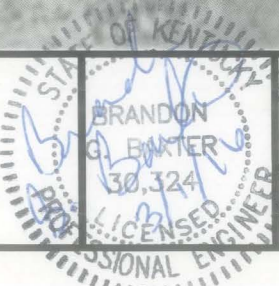
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016  
SCALE: 1" = 100'

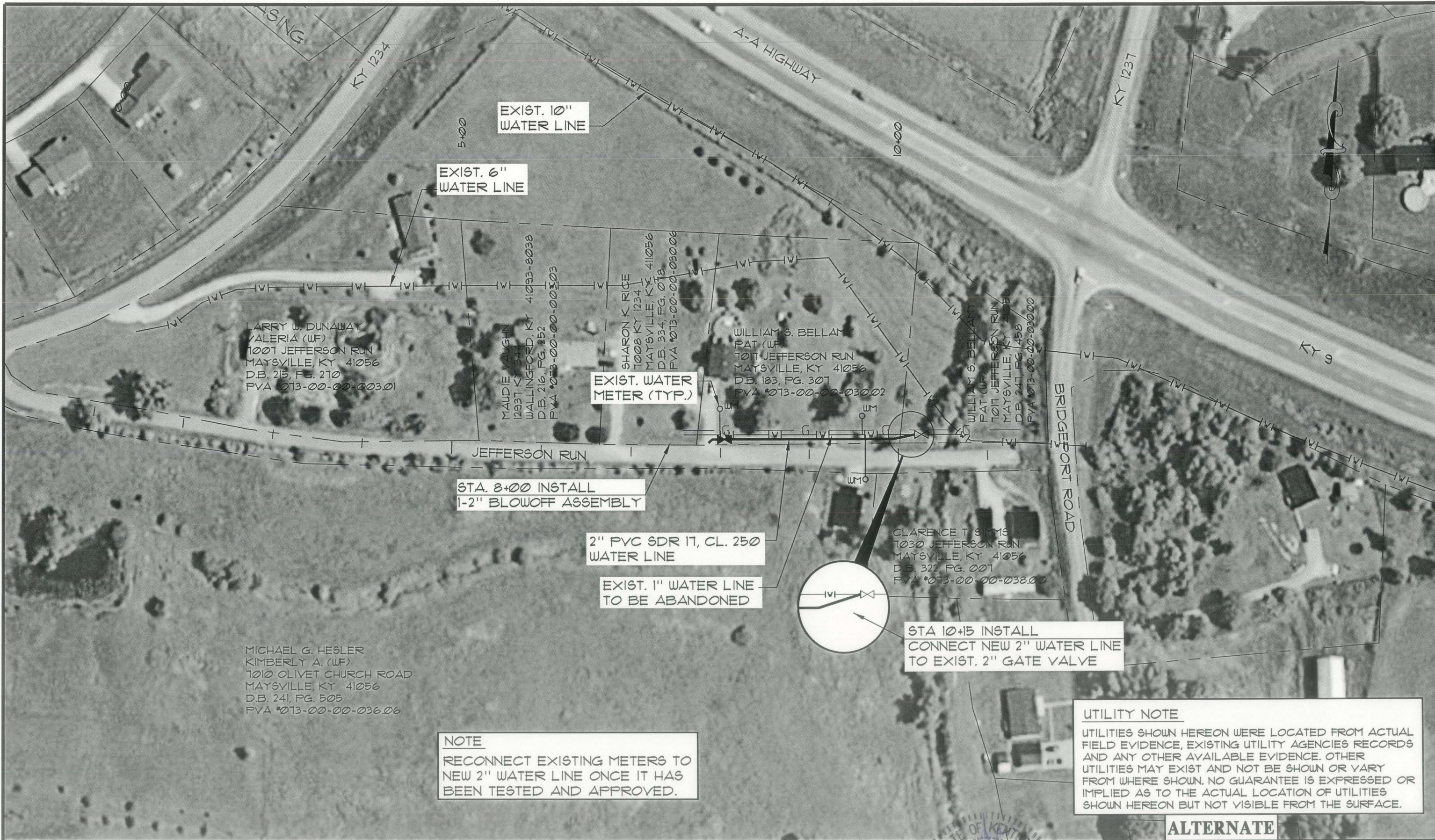
DESIGNED BY	NAME	DATE
	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DUGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX







MICHAEL G. HESLER  
KIMBERLY A. (WF)  
7010 OLIVET CHURCH ROAD  
MAYSVILLE, KY 41056  
D.B. 241, PG. 505  
PVA #073-00-00-036.06

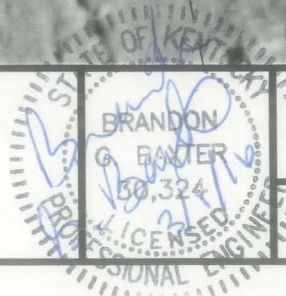
**NOTE**  
RECONNECT EXISTING METERS TO  
NEW 2" WATER LINE ONCE IT HAS  
BEEN TESTED AND APPROVED.

**UTILITY NOTE**  
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FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS  
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PROJECT: 422000 DATE: JAN 2016					
SCALE: 1" = 100'					
		NAME	DATE		
DESIGNED BY		BGB			
DRAWN BY		SAB			
CHECKED BY		CAS			
RECORD DWGS.					
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



**ALTERNATE**  
**WESTERN LEWIS RECTORVILLE**  
**WATER SYSTEM IMPROVEMENTS**  
**MASON & LEWIS COUNTY, KENTUCKY**  
**JEFFERSON RUN ROAD**



# UTILITY NOTE

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STA 0+00 INSTALL  
1-8"X6" REDUCER  
1-6" GATE VALVE & BOX

CONTRACTOR SHALL LOCATE WHERE EXISTING 6" WATER LINE TRANSITIONS FROM DUCTILE IRON TO PVC AND MAKE THE CONNECTION AT THAT LOCATION.

JERRY MIKE & TOM LUNDERGAN  
400 ELLISTON LANE  
VERMILION, KY 40383  
D.B. 205, PG. 483  
PVC #062-00-00-012.00

6" PVC SDR 17,  
CL. 250 WATER LINE

EXIST. 6" PVC WATER LINE  
TO BE ABANDONED

EXIST. 8" D.I.  
WATER LINE

EXISTING WATER  
METER (TYP.)

## NOTE

RECONNECT EXISTING METERS TO NEW 6" WATER LINE ONCE IT HAS BEEN TESTED AND APPROVED.

JERRY LUNDERGAN  
CHARLOTTE (WF)  
5 DEEPWOOD COURT  
LEXINGTON, KY 40505  
D.B. 343, PG. 326  
PVC #056-00-00-034.01

RONALD L. RIGG  
1128 OAK STREET  
MAYSVILLE, KY 41056  
D.B. 311, PG. 246  
PVC #062-00-00-014.00

ALTERNATE

JERRY LUNDERGAN  
CHARLOTTE (WF)  
5 DEEPWOOD COURT  
LEXINGTON, KY 40505  
D.B. 343, PG. 326  
PVC #056-00-00-034.01

PROJECT: 422000 DATE: JAN. 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



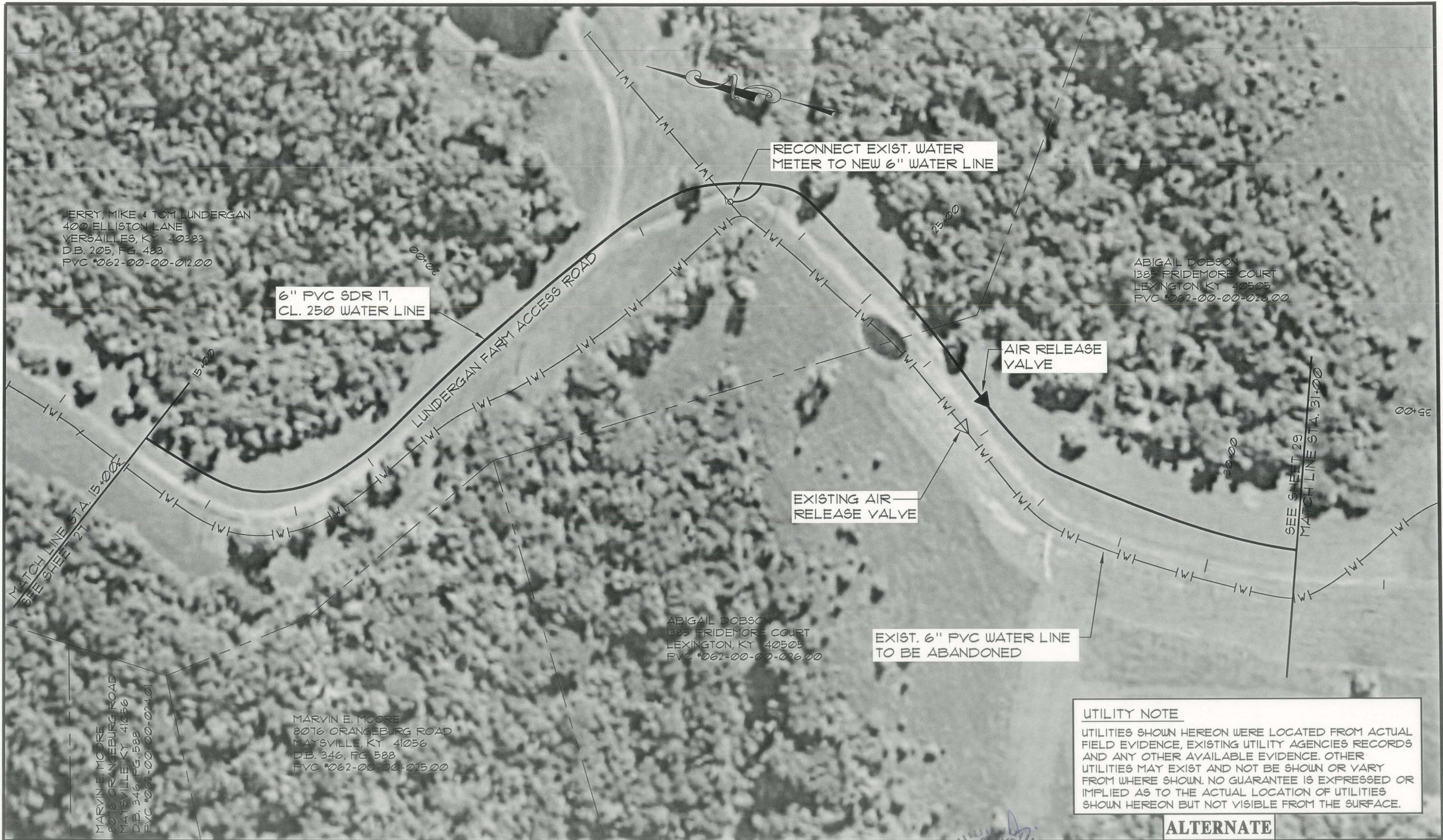
WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

LUNDERGAN FARM WATER LINE REPLACEMENT

SHEET  
21

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE





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**ALTERNATE**

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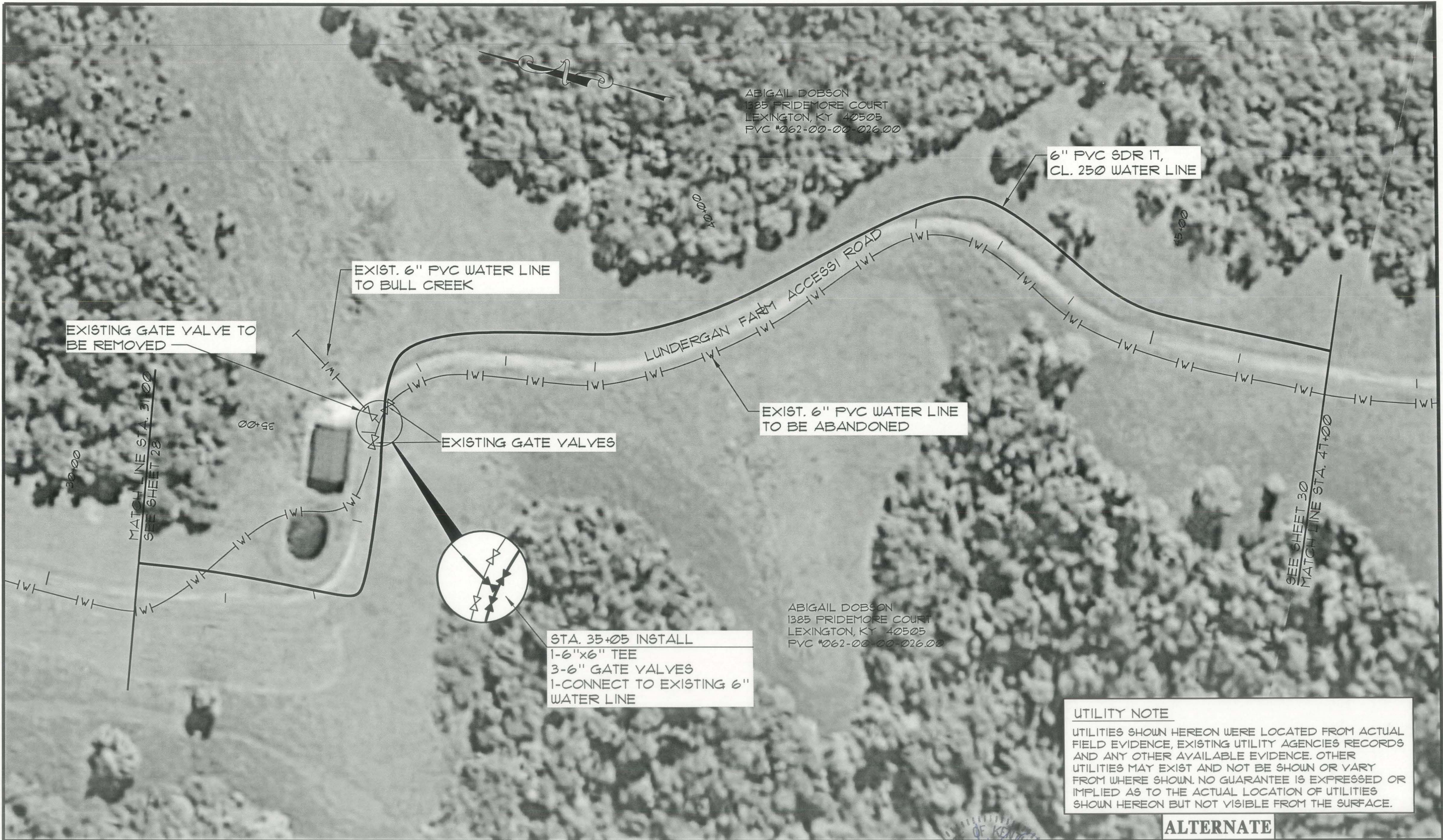
3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



**WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**  
**LUNDERGAN FARM WATER LINE REPLACEMENT**

SHEET  
28





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**ALTERNATE**

**WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**LUNDERGAN FARM WATER LINE REPLACEMENT**

SHEET  
29

			PROJECT: 422000 DATE: JAN. 2016		
			SCALE: 1" = 100'		
			DESIGNED BY	NAME	DATE
			DRAWN BY	SAB	
			CHECKED BY	CAS	
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE
			RECORD DWGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX





ABIGAIL DOBSON  
1385 PRIDEMORE COURT  
LEXINGTON, KY 40505  
PVC #062-00-00-026.00

6" PVC SDR 17 CL 250  
WATER LINE

EXIST. 6" PVC WATER LINE  
TO BE ABANDONED

LUNDERGAN FARM ACCESS ROAD

SEE SHEET 31  
MATCH LINE STA. 60+00

MATCH LINE STA. 41+00  
SEE SHEET 29

ABIGAIL DOBSON  
1385 PRIDEMORE COURT  
LEXINGTON, KY 40505  
PVC #062-00-00-026.00

#### UTILITY NOTE

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ALTERNATE

WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

LUNDERGAN FARM WATER LINE REPLACEMENT

SHEET  
30

PROJECT: 4220.00 DATE: JAN. 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 635-9300  
(502) 635-9310 FAX



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE





ABIGAIL DOBSON  
1385 PRIDEMORE COURT  
LEXINGTON, KY 40505  
PVC #062-00-00-026.00

ABIGAIL DOBSON  
1385 PRIDEMORE COURT  
LEXINGTON, KY 40505  
D.B. 321, PG. 101  
PVC #062-00-00-034.00

EXIST. 6" PVC WATER LINE  
TO BE ABANDONED

6" PVC SDR 17 CL 250  
WATER LINE

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**ALTERNATE**

**WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**LUNDERGAN FARM WATER LINE REPLACEMENT**

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016 SCALE: 1" = 100'		
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CHECKED BY	CAS	
RECORD DUGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-3800  
(502) 695-3810 FAX





NOTE:  
CONNECTION TO EXISTING LINE TO BE  
COORDINATED WITH CONNECTION AT  
ORANGEBURG ROAD SPUR ON SHEET 1 TO  
REDUCE CUSTOMER SERVICE INTERRUPTION.

ORANGEBURG ROAD SPUR  
REPLACEMENT (SEE SHEET 1)

ABIGAIL DOBSON  
1385 PRIDEMORE COURT  
LEXINGTON, KY 40505  
D.B. 321, PG. 101  
PVC #062-00-00-034.00

STA. 82+10 INSTALL  
1-6"X6" TEE  
2-6" GATE VALVE & BOX  
1-CONNECT TO EXISTING PVC  
WATER LINE

6" PVC SDR 17 CL 250  
WATER LINE

LUNDERGAN FARM ACCESS ROAD

MELISSA A. REDMOND  
8176 ORANGEBURG ROAD  
MAYSVILLE, KY 41056  
D.B. 319, PG. 220  
PVC #062-00-00-034.01

EXISTING WATER  
METER (RECONNECT)

EXIST. 6" PVC WATER LINE  
TO BE ABANDONED

ABIGAIL DOBSON  
1385 PRIDEMORE COURT  
LEXINGTON, KY 40505  
D.B. 321, PG. 101  
PVC #062-00-00-034.00

UTILITY NOTE

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ALTERNATE

WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

LUNDERGAN FARM WATER LINE REPLACEMENT



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		

SHEET  
32



STEPHEN HEATH EFIRD  
42956 VICKERS STORE ROAD  
ALBERMARLE, NC 28001  
D.B. 220, PG. 138  
PVA #019-00-00-015.01

STEPHEN HEATH EFIRD  
42956 VICKERS STORE ROAD  
ALBERMARLE, NC 28001  
D.B. 220, PG. 138  
PVA #019-00-00-014.00

EXIST. BIG CABIN CREEK  
PRV VAULT  
TO BE REPLACED. SEE  
DETAIL SHEET PRV-1

KENNETH EUGENE WERLINE  
191 CABIN CREEK ROAD  
P.O. BOX 102  
TOLLESBORO, KY 41189  
D.B. 200, PG. 621  
PVA #019-00-00-015.00

STEPHEN HEATH EFIRD  
42956 VICKERS STORE ROAD  
ALBERMARLE, NC 28001  
D.B. 220, PG. 138  
PVA #019-00-00-014.00

SAMUEL M. WRIGHT  
168 CANAAN CHURCH SPUR  
TOLLESBORO, KY 41189  
D.B. 235, PG. 329  
PVA #020-00-00-010.00

JOHNNY D. OSBORNE  
DONNA K. (WF)  
CLIFFORD MICHAEL HAMPTON  
AMY (WF)  
8683 KY 57  
TOLLESBORO, KY 41189  
D.B. 225, PG. 611  
PVA #019-00-00-018.00

DAVID TULLY  
9154 KY 57  
TOLLESBORO, KY 41189  
D.B. 238, PG. 245  
PVA #020-00-00-010.02

#### UTILITY NOTE

UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS AND ANY OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

ALTERNATE

WESTERN LEWIS-RECTORVILLE  
PHASE V WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

BIG CABIN CREEK PRV REPLACEMENT

SHEET

33

PROJECT: 422000 DATE: JAN 2016  
SCALE: 1" = 100'

	NAME	DATE
DESIGNED BY	BGB	
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		

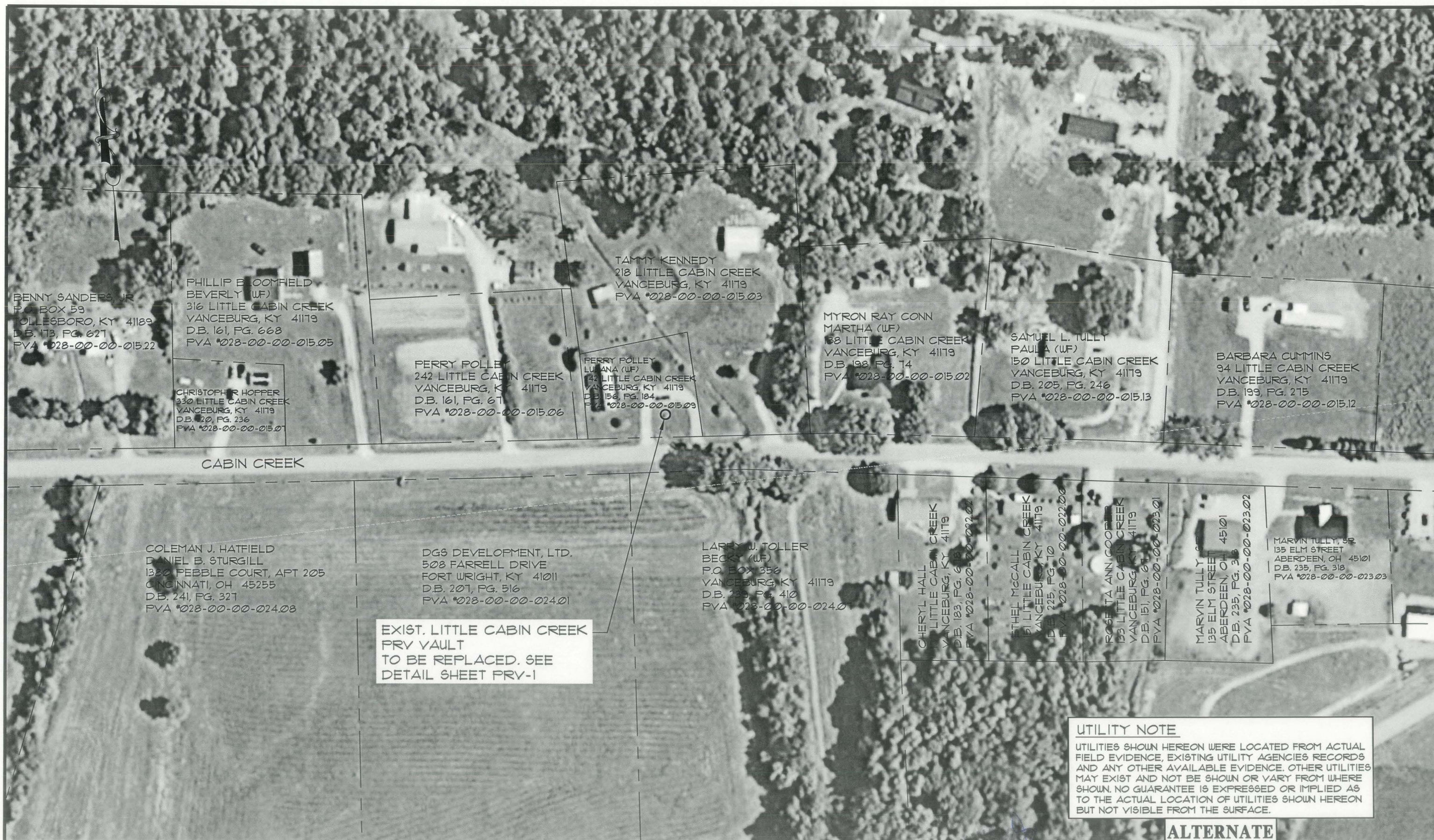


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(502) 695-9810 FAX



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE





**UTILITY NOTE**  
UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS AND ANY OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES SHOWN HEREON BUT NOT VISIBLE FROM THE SURFACE.

**ALTERNATE**

						PROJECT: 422000 DATE: JAN. 2016		
						SCALE: 1" = 100'		
						DESIGNED BY	NAME	DATE
						DRAWN BY	SAB	
						CHECKED BY	CAS	
						RECORD DWGS.		
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE			



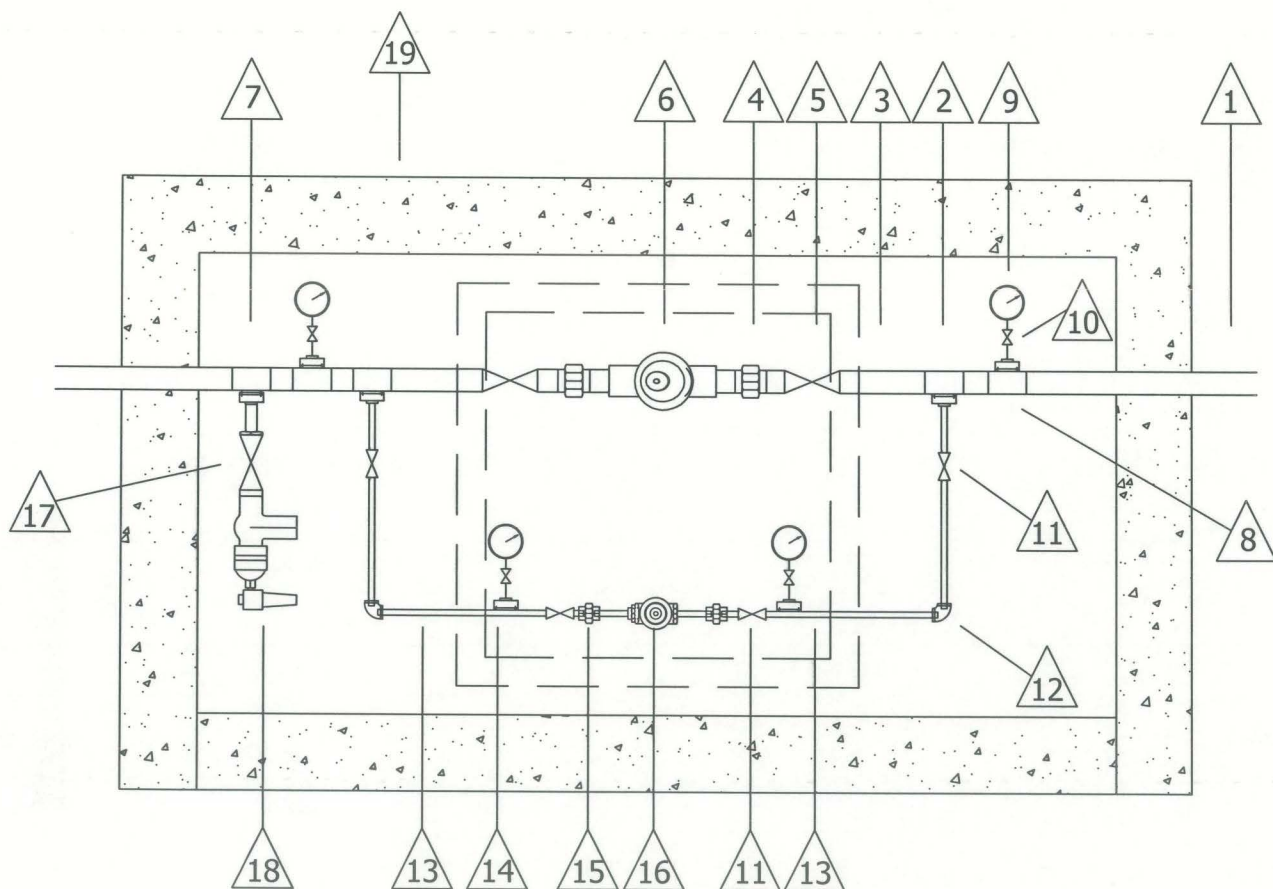
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**WESTERN LEWIS Rectorville  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**LITTLE CABIN CREEK PRV REPLACEMENT**





ITEM	QTY.	DESCRIPTION
1	2	2" X 3'-0" STANDARD BRASS NIPPLE, L TOE
2	2	2" X 1" STANDARD BRASS THREADED TEE
3	2	2" X 2'-0" STANDARD BRASS NIPPLE, THREADED BOTH ENDS
4	2	2" STANDARD BRASS UNION, THREADED
5	2	2" BRASS GATE VALVE, THREADED
6	1	2" PRESSURE REDUCING VALVE, BERMAD 720-01-PB-UP-BPDA CLASS 250
7	1	2" X 2" STANDARD BRASS THREADED TEE
8	2	2" X 1/4" STANDARD BRASS THREADED TEE
9	4	4 1/2" PRESSURE GAUGE, ASHCROFT DURAGAUGE w/ 0-300 psi
		INLET AND 0-160 psi OUTLET RANGE
10	4	1/4" FULL PORT BRASS THREADED BALL VALVE
11	4	1" THREADED BRASS GATE VALVE
12	2	1" X 90 DEG THREADED BRASS ELBOW
13	6	1" X 12" THREADED BRASS NIPPLE
14	2	1" X 1/4" THREADED BRASS TEE
15	2	1" STANDARD BRASS UNION, THREADED
16	1	1" PRESSURE REDUCING VALVE, WILKINS, 500 HLR (10-125 psi)
17	1	2" THREADED BRASS GATE VALVE
18	1	2" THREADED 730Q SURGE RELIEF VALVE
19	1	8'-0" x 4'-0" x 6'-0" PRECAST CONCRETE VAULT
		w/ HOLES AND BOOTS FOR PIPING, CLOUD
20	1	36" x 36" LOCKABLE ALUMINUM HATCH, US-FAB TPS-300-36 x 36

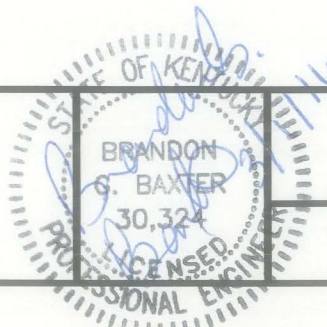
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PROJECT: 422000 DATE: JAN. 2016  
SCALE: 1"=20'

DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		



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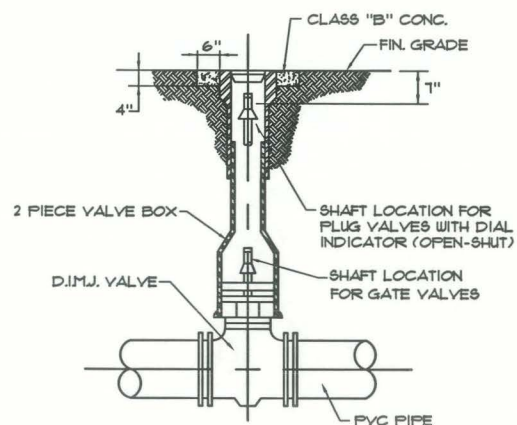


**WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**PRESSURE REDUCING VALVE VAULT**

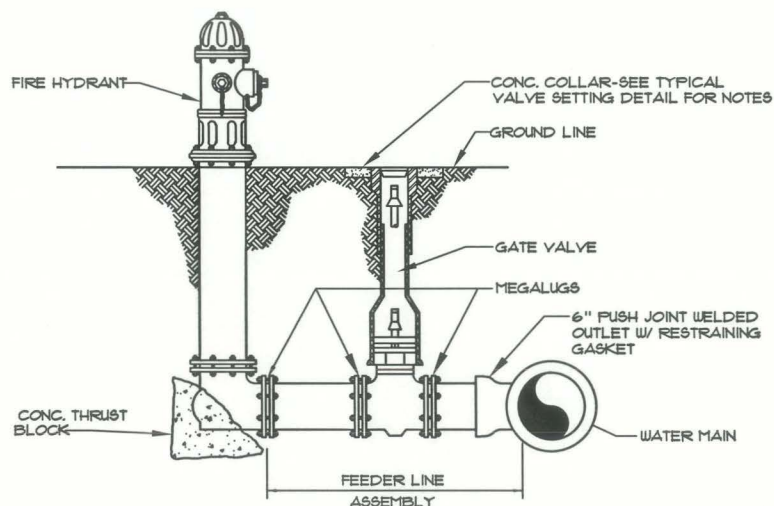
SHEET  
PRV-1





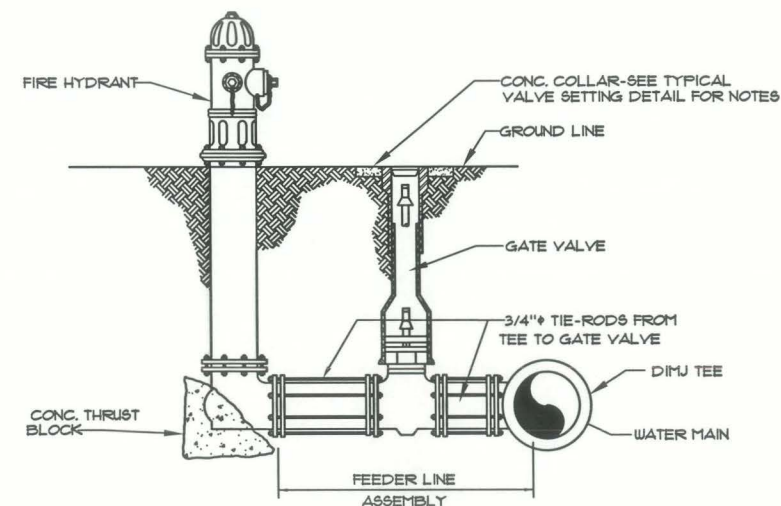
DETAIL - TYPICAL VALVE SETTING

N.T.S.



OPTION 1  
FIRE HYDRANT (3 NOZZLE)

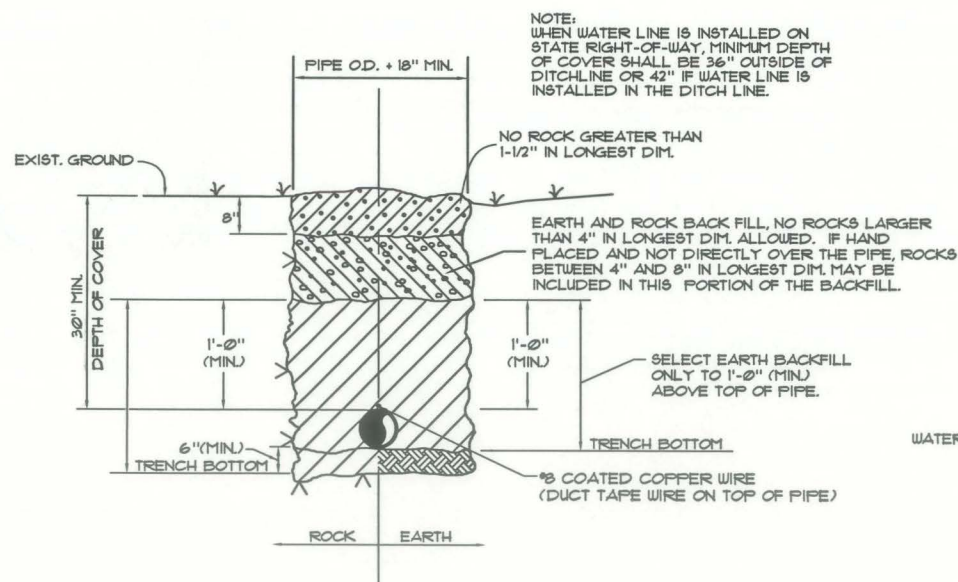
SCALE: N.T.S.



OPTION 2  
FIRE HYDRANT (3 NOZZLE)

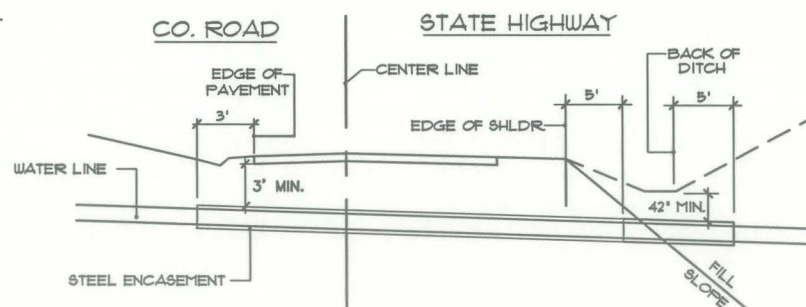
SCALE: N.T.S.

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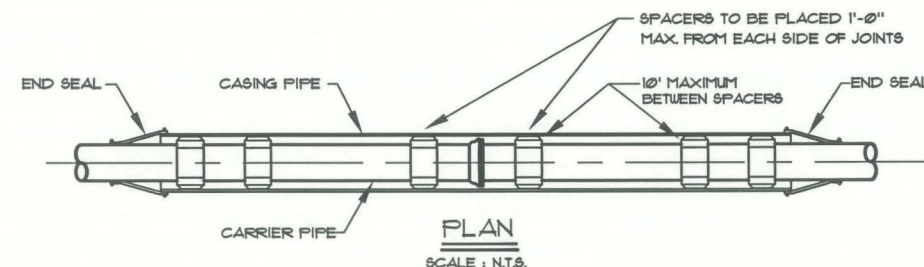
DETAIL - BEDDING / BACKFILL

N.T.S.

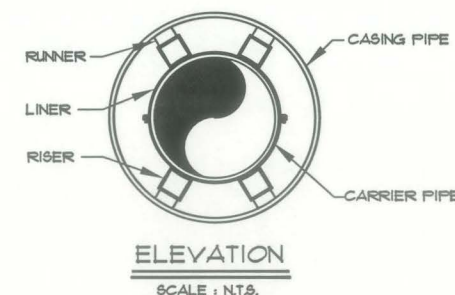


DETAIL - TYPICAL ROAD CROSSING

N.T.S.



PLAN  
SCALE: N.T.S.



ELEVATION  
SCALE: N.T.S.

#### TYPICAL ROAD CROSSING NOTES:

1. ALL JOINTS SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
2. MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
3. OPEN TRENCH NO CLOSER THAN THE DITCH LINE OR TOE FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY STATE, COUNTY OR MUNICIPAL SPECIFICATIONS.
4. HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES 4" AND LESS SHALL BE NEW SCHEDULE 40. STEEL CASING PIPES LARGER THAN 4" AND UP TO 20" SHALL HAVE MINIMUM WALL THICKNESS OF 0.25". 20" CASING PIPE SHALL BE A MINIMUM WALL THICKNESS OF 0.281".
5. ALL BORED AND JACKED ENCASMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THAN THE OUTSIDE DIAMETER OF THE ENCASMENT PIPE.
6. SDR-21 SHALL BE USED FOR PVC CASING FOR COUNTY ROADS, WHERE PVC CASING PIPE IS REQUIRED.
7. STEEL CASING PIPE SHALL CONFORM TO ASTM A 252 GRADE 2 OR ASTM A 133 GRADE B.
8. MORE STRINGENT REQUIREMENTS STATED IN ANY RELEVANT PERMIT SHALL PREVAIL.

#### ENCASMENT PIPE SPACER

SCALE: N.T.S.

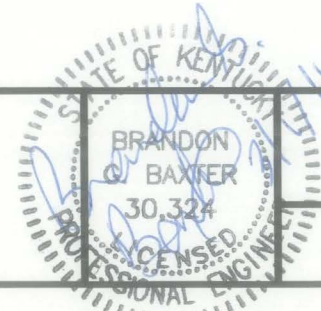
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2016  
SCALE: N.T.S.

DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	CAS	
RECORD DWGS.		



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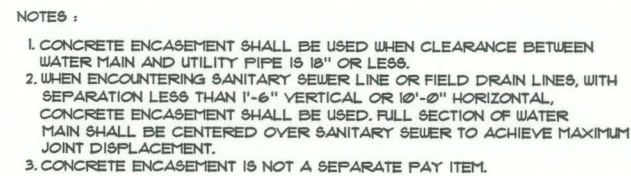


WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY

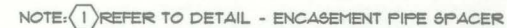
STANDARD DETAILS

SHEET  
SD1





## NTS.



GRAVEL OR DIRT BOTTOM W/GRAVEL CAP  
NOT TO SCALE



ALL MANUFACTURED BRAND NAMES  
CALLED OUT ON DETAIL SHEETS  
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MANUFACTURERS BRANDS CAN BE  
USED IF APPROVED AS EQUALS.

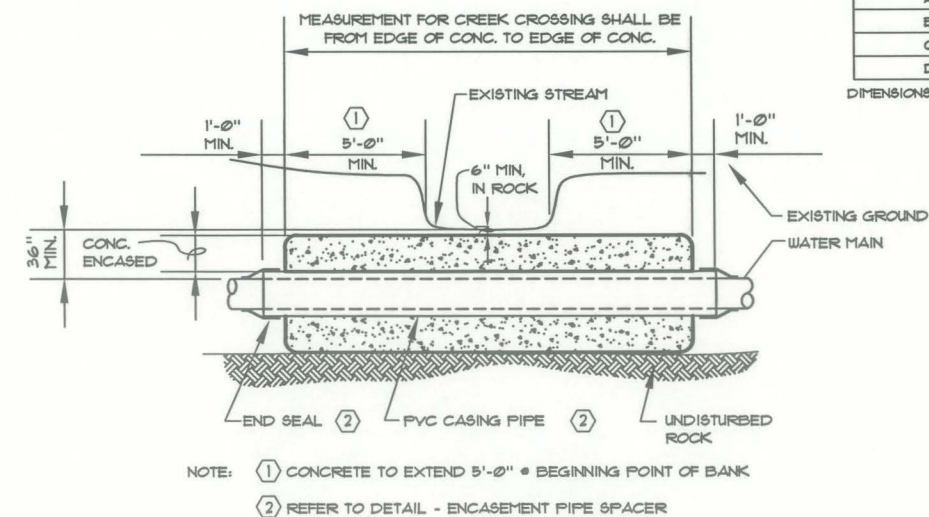


NOTES:

1. THRUST BLOCKS DESIGNED FOR 100 PSF PRESSURE AND 1000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING, QUANTITIES WILL HAVE TO BE RECALCULATED.
2. THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
3. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
4. THRUST BLOCKING TO BE POURED IN PLACE CLASS B CONC.



SCALE: N.T.S.



SOLID ROCK BOTTOM WITH CONC. CAP  
NOT TO SCALE

30° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	88	80	72	64	50	40	33	26	16	16	
B	88	80	72	64	50	40	33	24	16	16	
C	48	38	32	30	16	15	12	12	9	9	
D	48	40	36	32	25	20	16	12	8	9	

45° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	72	60	54	48	37	31	24	18	12	12	
B	72	60	54	48	37	31	24	18	12	12	
C	22	20	16	18	16	14	12	12	8	8	
D	32	28	25	22	18	15	12	9	6	6	

45° VERTICAL BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	72	60	60	45	36	36	36	36	24	24	
B	60	48	48	45	36	36	36	36	24	24	
C	86	84	84	72	60	60	60	60	48	48	
D	84	72	72	60	48	48	48	48	36	36	
E	84	72	72	60	48	48	48	48	36	36	
F	84	72	72	60	48	48	48	48	36	36	

22 1/2° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	50	42	38	34	26	23	18	13	9	9	
B	50	42	38	34	26	23	18	13	9	9	
C	22	20	16	18	16	14	12	10	8	8	
D	26	22	18	16	13	11	9	6	4	4	

11 1/4° BEND											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	36	30	27	24	18	16	13	11	9	9	
B	36	30	27	24	18	16	13	11	9	9	
C	22	20	16	18	16	14	12	10	8	8	
D	22	18	14	12	9	8	6	5	4	4	

PLUG											
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
A	80	66	60	54	52	43	34	26	26	26	
B	86	66	60	54	52	43	34	26	26	26	
C	12	12	12	12	12	12	12	12	12	12	
D	72	60	54	44	32	22	15	11	11	11	

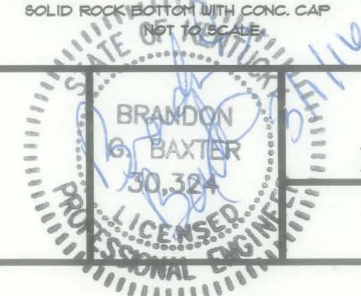
TEE											
SIZE	MAIN BRANCH	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"
A	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"	
B	80	66	60	54	52	42	26	43	26	26	
C	80	66	60	54	52	43	26	43	26	26	
D	45	36	32	30	12	12	12	12	12	12	
E	48	40	36	30	26	21	13	21	13	13	

DIMENSIONS ARE IN INCHES

							PROJECT: 422000 DATE: JAN. 2016
							SCALE: N.T.S.
							NAME
							DATE
							DESIGNED BY
							BGB
							DRAWN BY
							SAB
							CHECKED BY
							CAS
NO.	DATE	REVISIONS		CHK'D	APPR'D	DATE	RECORD DWGS.



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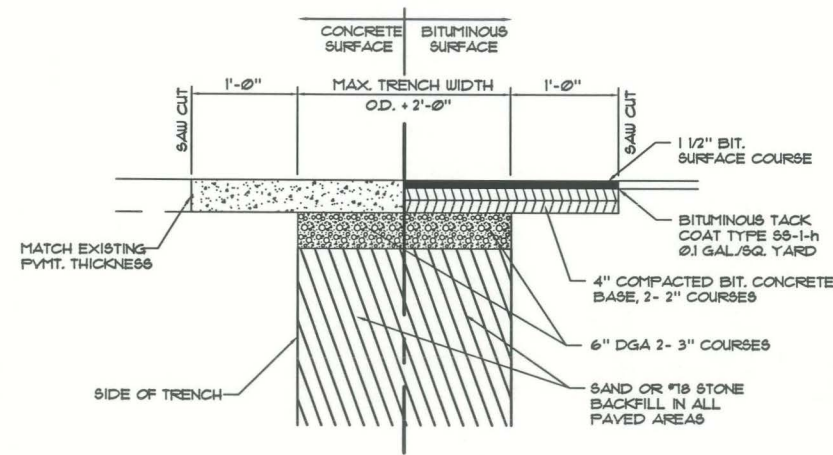


**WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

## STANDARD DETAILS

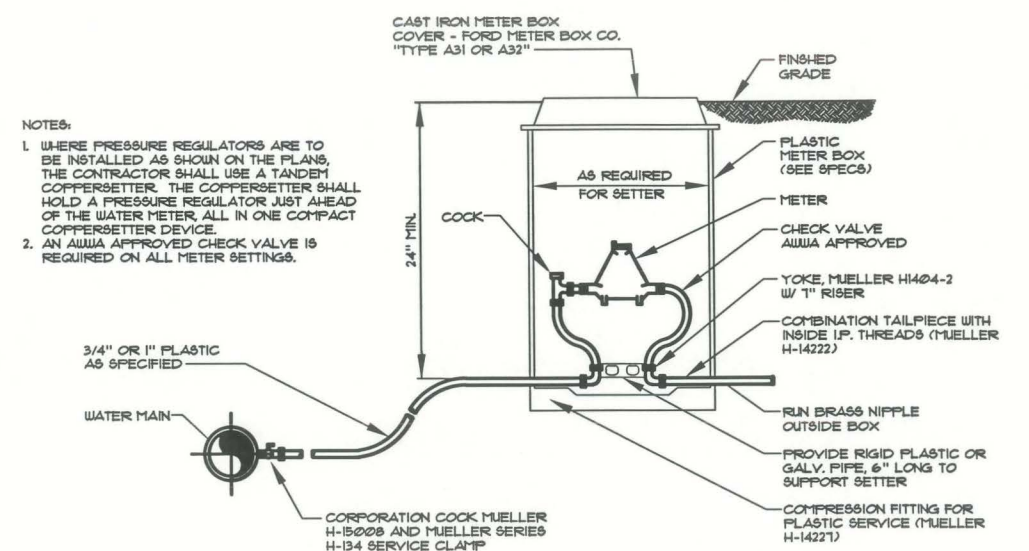
SHEET  
SD2



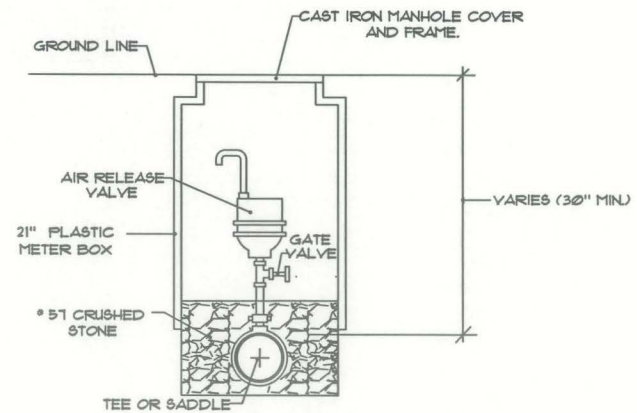


**DETAIL - PAVEMENT REPLACEMENT**  
SCALE : N.T.S.

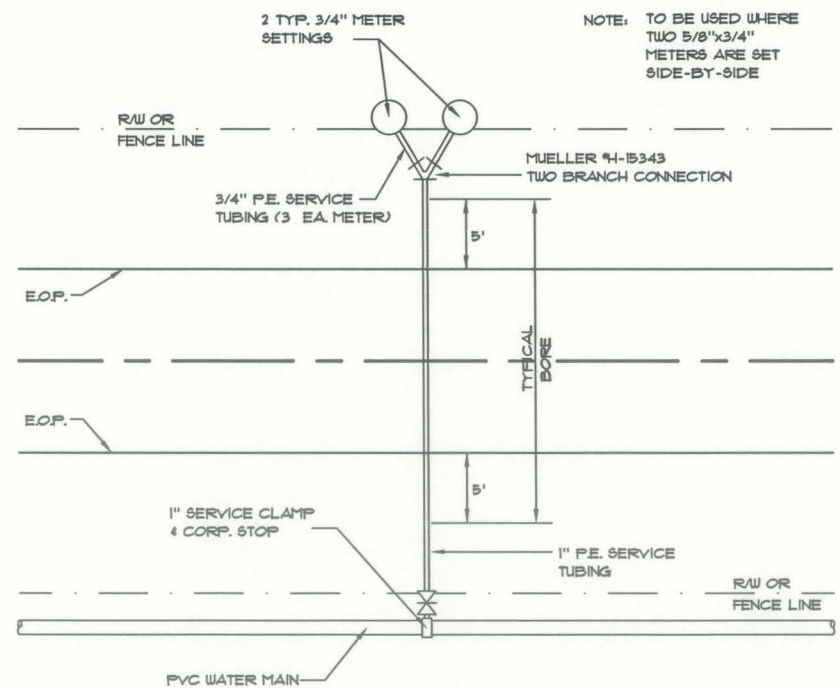
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**TYPICAL METER SETTING**  
**5/8\"/>**

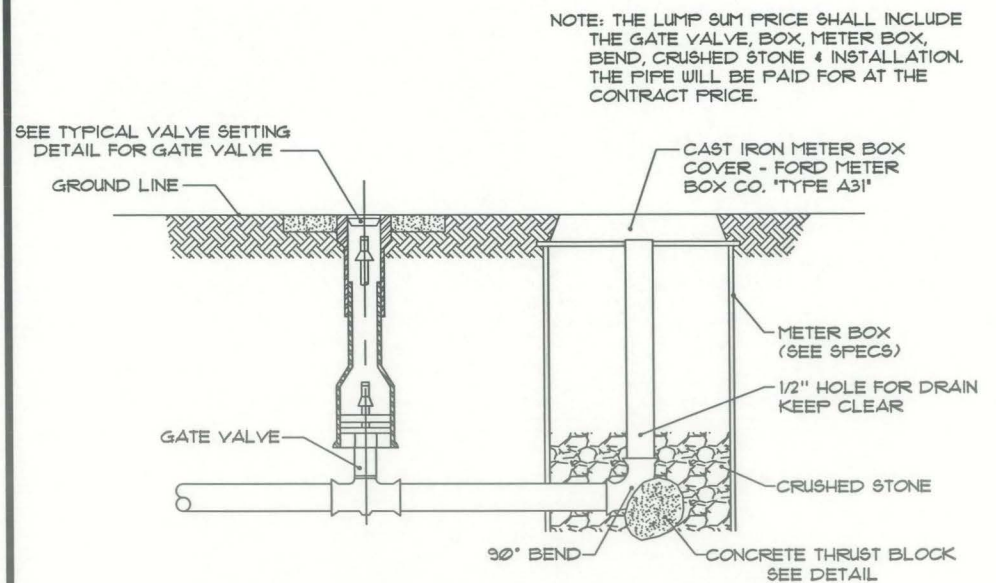


**DETAIL - AUTOMATIC AIR RELEASE VALVE**  
SCALE : N.T.S.



**DETAIL - SPECIAL SERVICE LINE CROSSING**  
SCALE : N.T.S.

NOTE: ALL MATERIALS SHOWN, INCLUDING UP TO 10' OF 1\"/>



**BLOW-OFF ASSEMBLY**  
SCALE : N.T.S.

SIDE OUTLET BLOWOFFS SHALL BE AS SHOWN, BUT LUMP SUM PRICE SHALL ALSO INCLUDE MAIN LINE TEE, GATE VALVE & BLOWOFF PIPING SIZE SHALL BE AS INDICATED ON THE PLANS.

PROJECT: 4220.00 DATE: JAN. 2016 SCALE: N.T.S.					
DESIGNED BY	NAME	DATE			
DRAWN BY	SAB				
CHECKED BY	CAS				
RECORD DUGS.					
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



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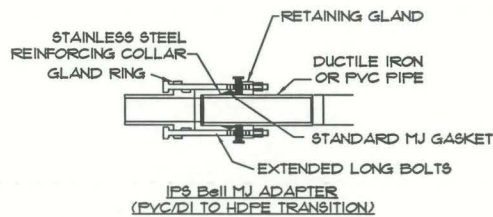
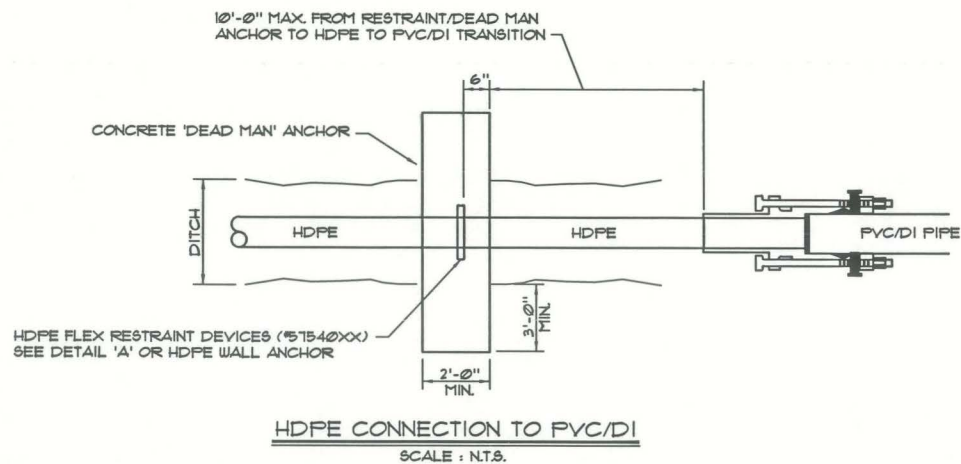


**WESTERN LEWIS RECTORVILLE  
WATER SYSTEM IMPROVEMENTS  
MASON & LEWIS COUNTY, KENTUCKY**

**STANDARD DETAILS**

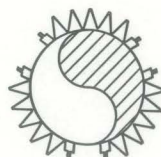
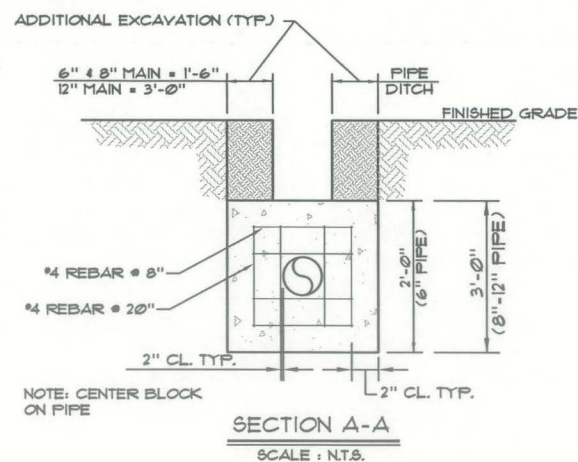
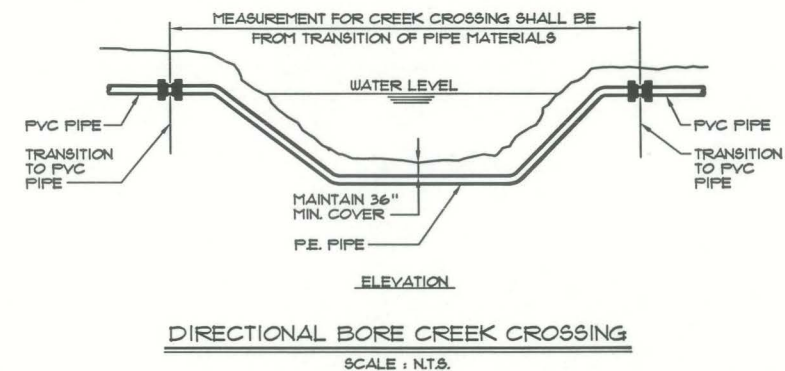
SHEET  
SD3





NOTES :

1. CONTRACTOR MUST WAIT MIN. 7 DAYS TO ALLOW PE PIPE TEMP ADJUSTMENT AND FOR CONCRETE CURE STRENGTH BEFORE MAKING TIE IN CONNECTION.
2. ON INITIAL FILL OF NEW PE PIPE, FILL AT AN EXTREME LOW FLOW RATE TO AVOID CENTRALIZER EFFECT (PIPE SHIFT).
3. THIS HDPE CONNECTION REQUIRED ON BOTH SIDES OF HDPE.
4. RESTRAINED JOINT PVC PIPE CAN BE USED AS AN ALTERNATE.



**DETAIL 'A'**

SCALE : N.T.S.

NOTE :

6"-8" 2-HDPE FLEX RESTRAINTS

12"-16" 3-HDPE FLEX RESTRAINTS

16" & AT ENG. DISCRETION

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 422000 DATE: JAN. 2015

SCALE: N.T.S.

DESIGNED BY	NAME	DATE
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CHECKED BY	CAS	
RECORD DRG'S.		

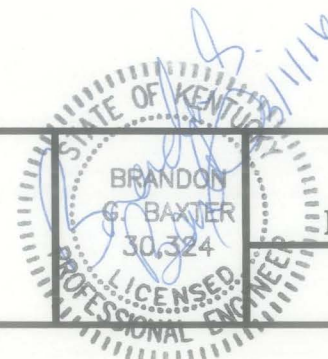


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**WESTERN LEWIS RECTORVILLE**

**WATER SYSTEM IMPROVEMENTS**

**MASON & LEWIS COUNTY, KENTUCKY**

**STANDARD DETAILS**

SHEET

SD4