



**US Army Corps  
of Engineers®**  
Memphis District

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**GRAND PRAIRIE REGION AND BAYOU METO  
BASIN, ARKANSAS PROJECT**

**BAYOU METO BASIN,  
ARKANSAS**

**GENERAL REEVALUATION REPORT**

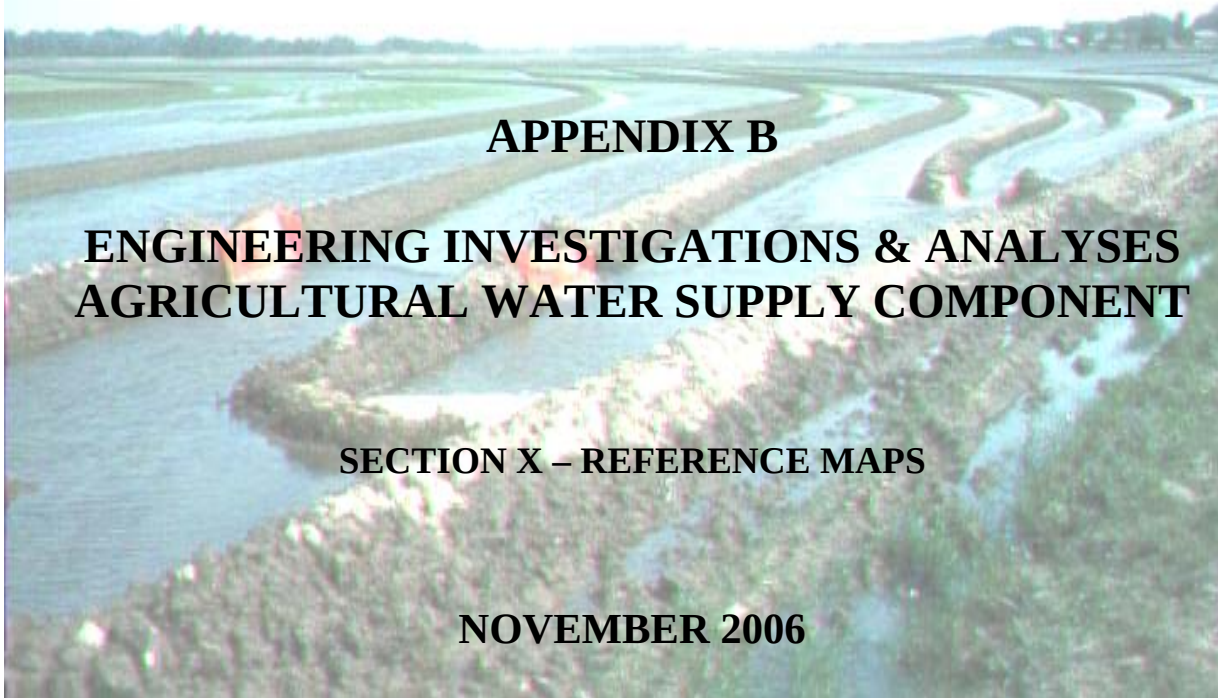
**VOLUME 7**

**APPENDIX B**

**ENGINEERING INVESTIGATIONS & ANALYSES  
AGRICULTURAL WATER SUPPLY COMPONENT**

**SECTION X – REFERENCE MAPS**

**NOVEMBER 2006**





**US Army Corps  
of Engineers®**  
Memphis District

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**GRAND PRAIRIE REGION AND BAYOU METO BASIN, ARKANSAS PROJECT**

**BAYOU METO BASIN, ARKANSAS**

**GENERAL REEVALUATION REPORT**

## **VOLUME 7**

### **APPENDIX B**

# **ENGINEERING INVESTIGATIONS & ANALYSES AGRICULTURAL WATER SUPPLY COMPONENT**

## **SECTION X – REFERENCE MAPS**

**NOVEMBER 2006**

# BAYOU METO BASIN, ARKANSAS PROJECT GENERAL REEVALUATION REPORT (GRR) INDEX

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## **Reference Maps**

The purpose of this appendix is to present graphically the project area along with the features of the selected plan. Due to the magnitude and complexity of this project, all of the features could not be conveyed on a single set of maps. The coverage of the individual base maps coincides with the coverage presented on the standard 7-1/2 minute USGS quadrangles; however, the scale is set to 1:62,500, the same as the scale for a standard 15 minute USGS quadrangle. The USGS naming convention has been retained for the base maps. An index map showing spatial relationships of the individual maps is provided for easy reference. A composite map of the project area and a vicinity map of the eastern Arkansas regions are also included. For clarity, several series of these base maps have been generated with each series depicting a specific type or types of project features. The components comprising the various series of maps are discussed below. Detailed information regarding the specifics of the project features depicted can be obtained by referencing the text of the report.

### **PROJECT MAP**

The project map is in essence the same as the base map. It includes a USGS quadrangle background, as well as major project features such as pipelines, canals, and ditches. It also includes the construction reach boundaries and the project boundary.

### **HYDRAULIC STRUCTURES**

The series depicts the approximate physical location of hydraulic structures along the distribution system. These structures include weirs, siphons, drop structures, culverts, turnout structures, pump structures, and check structures.

### **LANDUSE/LANDCOVER AND WETLANDS**

Wetland areas were developed by Vicksburg District and represent those areas within the project that are considered wetlands. Landuse/landcover data were also developed by Vicksburg District. The two layers were intersected to determine areas of impact of Forested and Cleared wetlands.

### **RELOCATIONS**

Physical location and naming/numbering convention (when available) of relocations.

### **PROPERTY OWNERSHIPS**

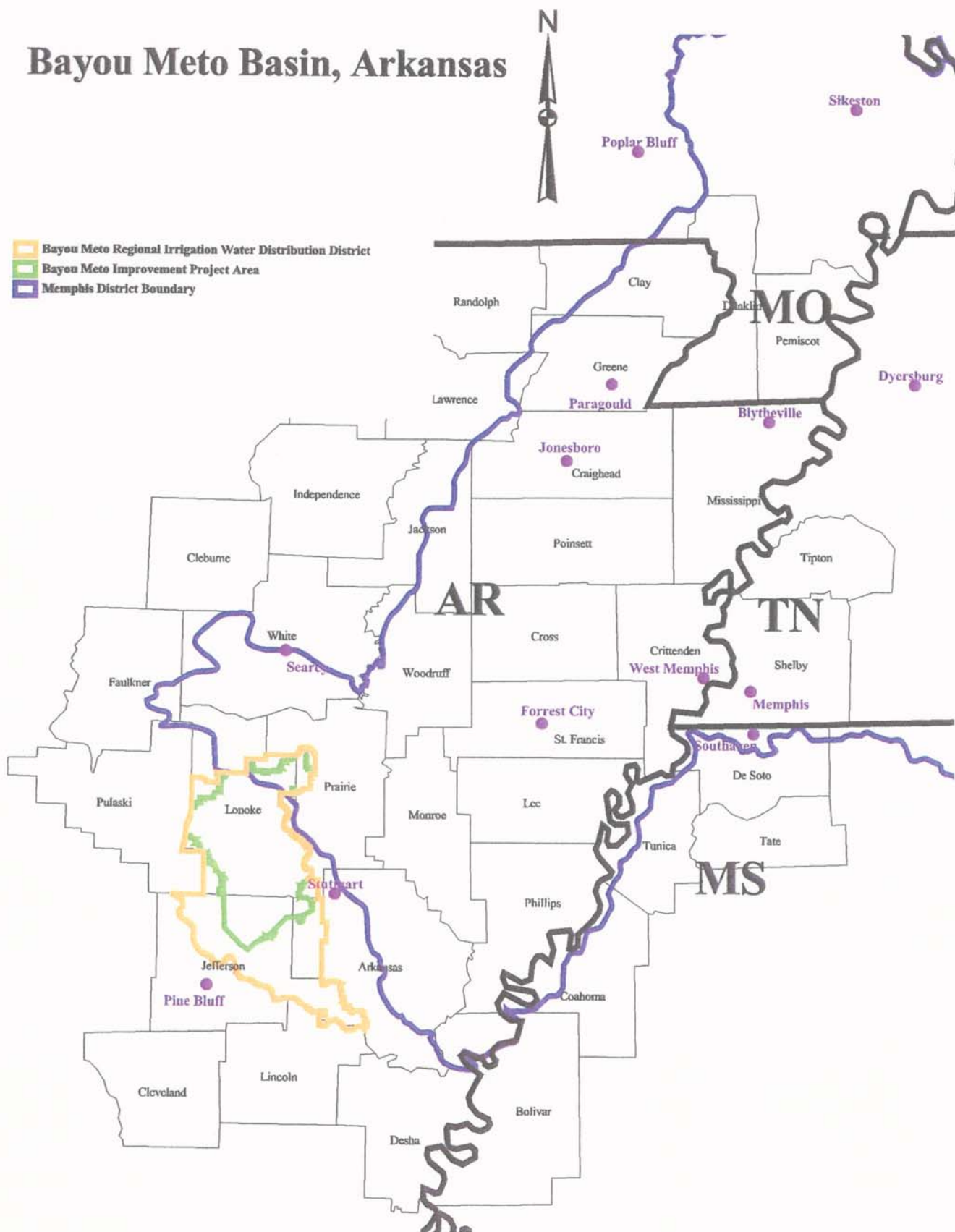
Property ownership data was obtained from Marceline Mapping Services, Inc., for the project area in DXF format. This data was layered with other project area data to obtain property ownership information for areas where right-of-way would need to be obtained.



# LEGENDS

# Bayou Meto Basin, Arkansas

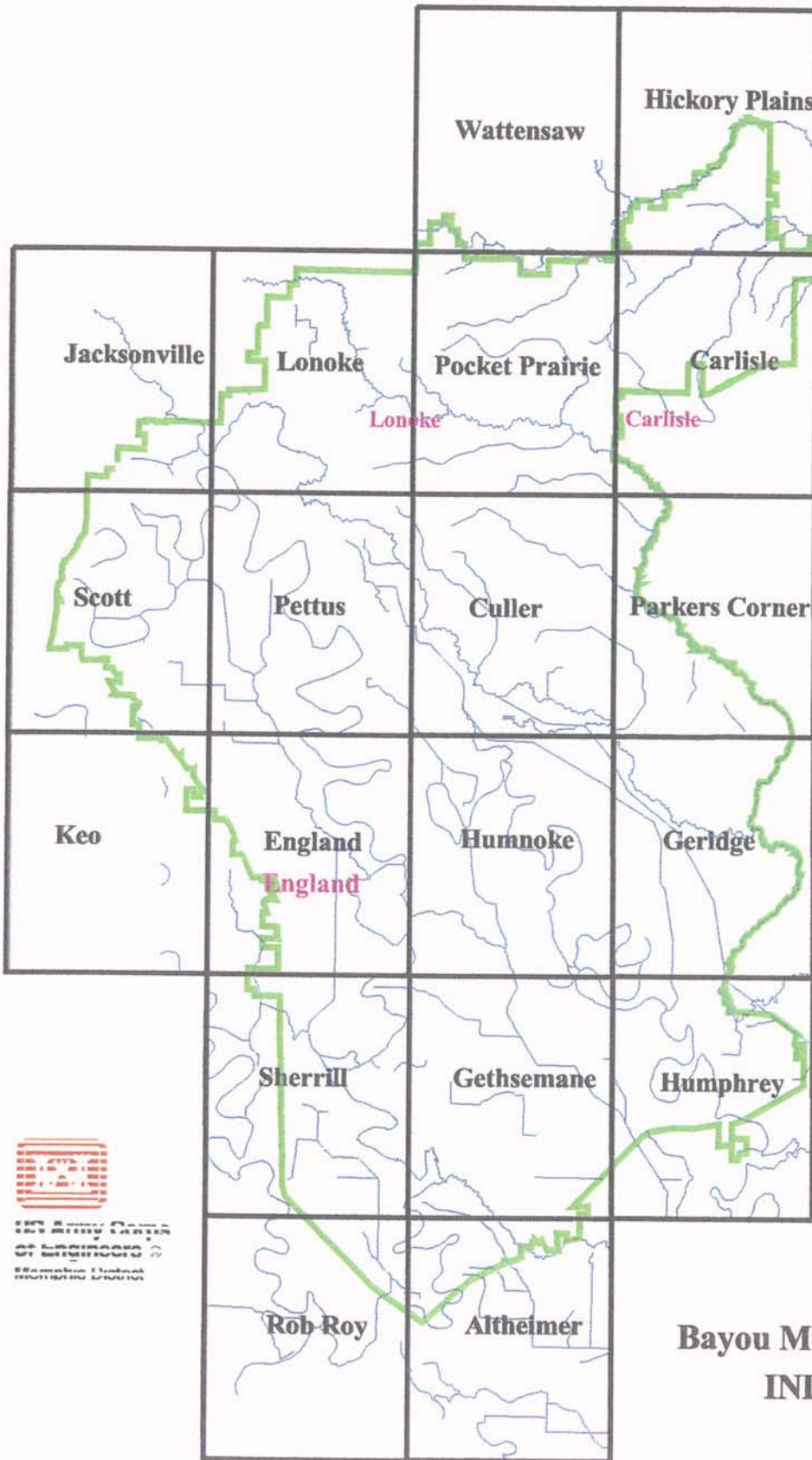
-  Bayou Meto Regional Irrigation Water Distribution District
-  Bayou Meto Improvement Project Area
-  Memphis District Boundary



10 0 10 20 30 40 50 Miles



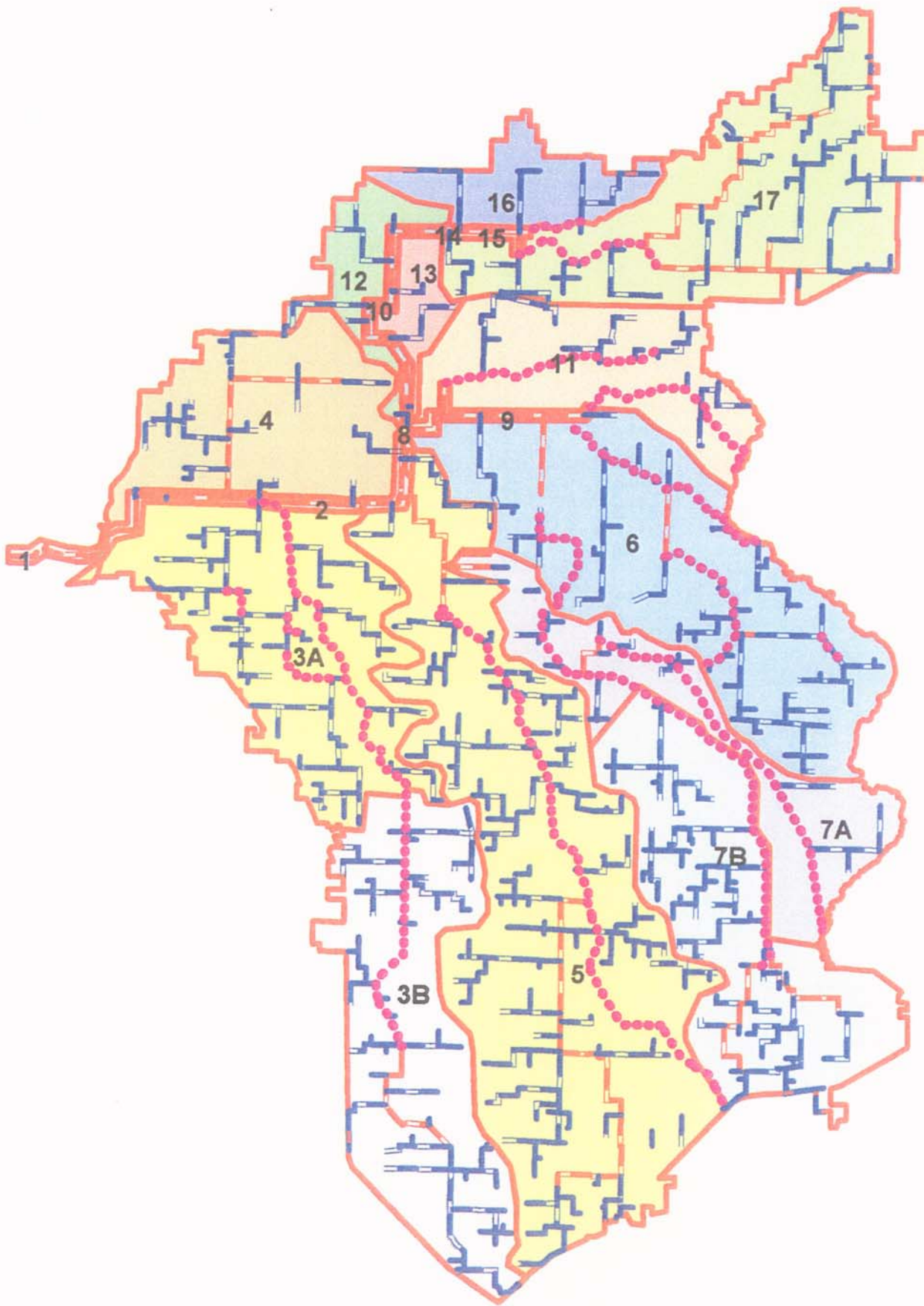
VICINITY MAP



 Bayou Meto Improvement Project Area

## Bayou Meto Basin, Arkansas INDEX MAP

5 0 5 Miles  

U.S. Army Corps  
Engineers  
Memphis District

-  Ditches
-  Pipelines
-  Canals
-  Construction Reaches
-  Bayou Meto Improvement Project Area

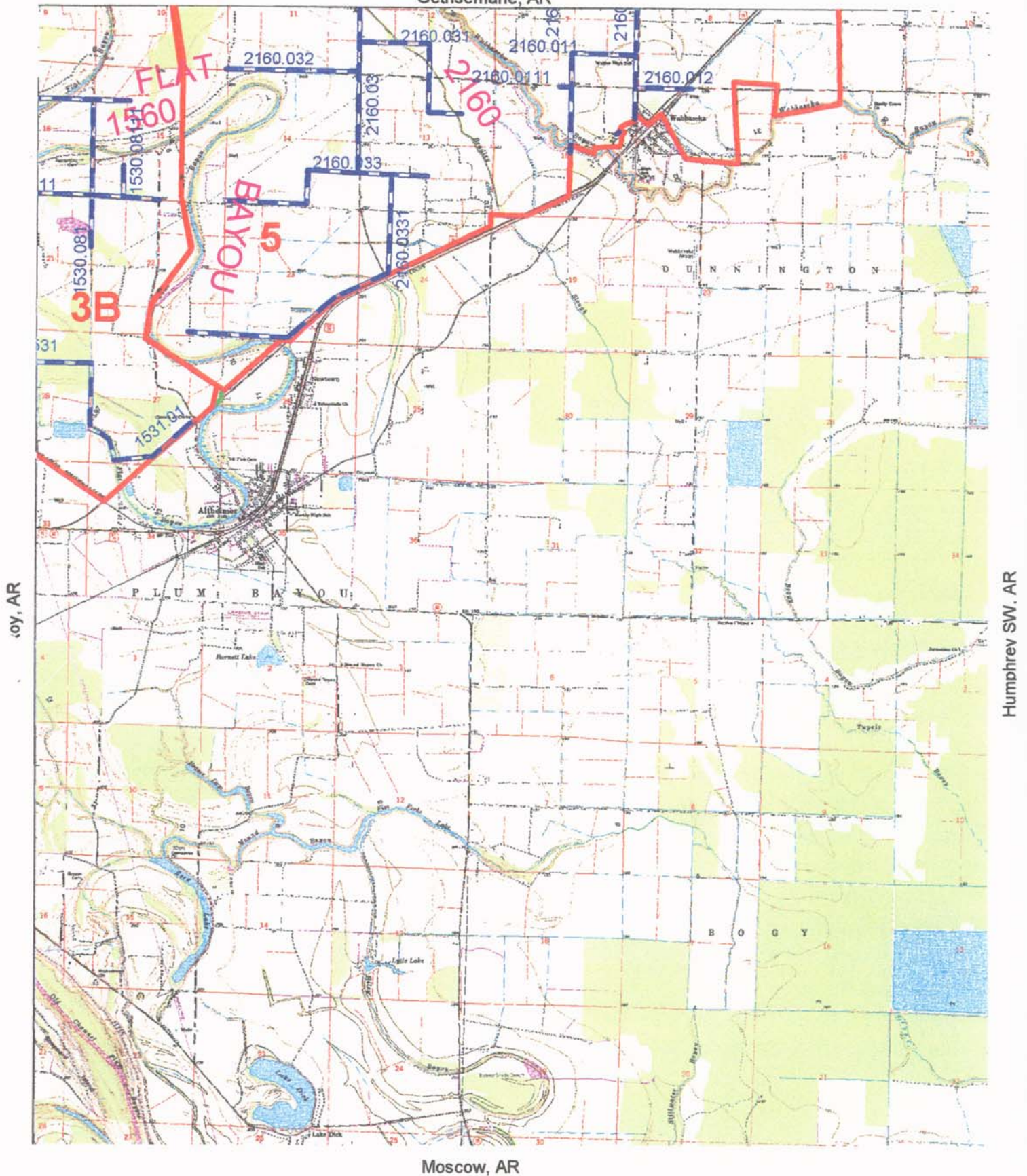


Construction Reaches

# **BASEMAPS**



Gethsemane, AR



Moscow, AR



**US Army Corps  
of Engineers** •  
Memphis District



Ditches  
Pipelines  
Canals  
Construction Reaches  
Bayou Meto Improvement Project Area



SCALE=1:62,500

## Alzheimer, AR Project Map



Hickory Plains, AR

Pocket Prairie, AR

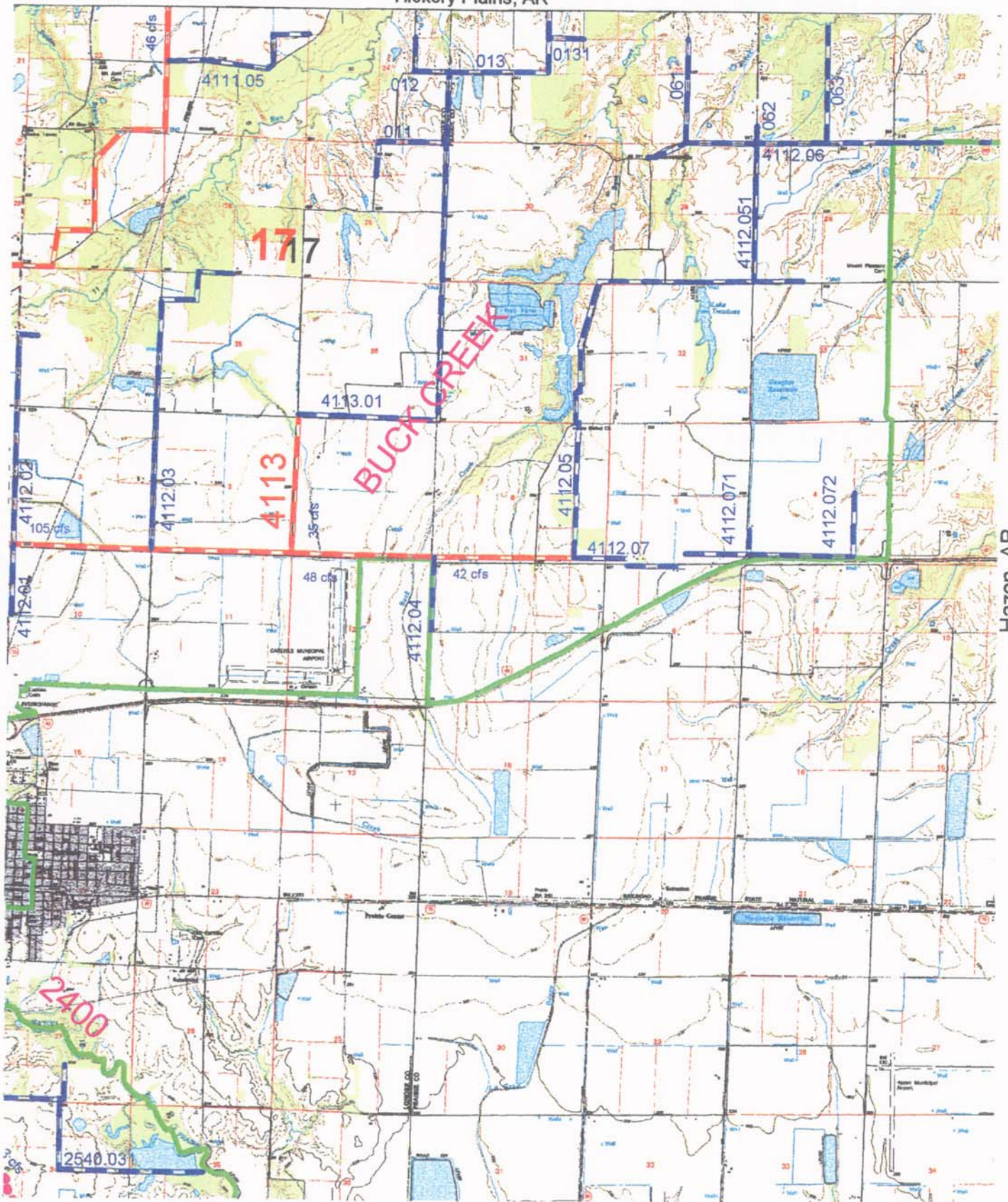
Hazen, AR

Parkers Corner, AR



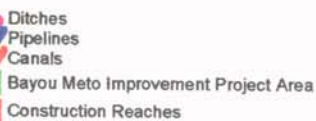
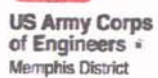
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Carlisle, AR  
Project Map





Parkers Corner, AR



## Culler, AR Project Map

SCALE=1:62,500



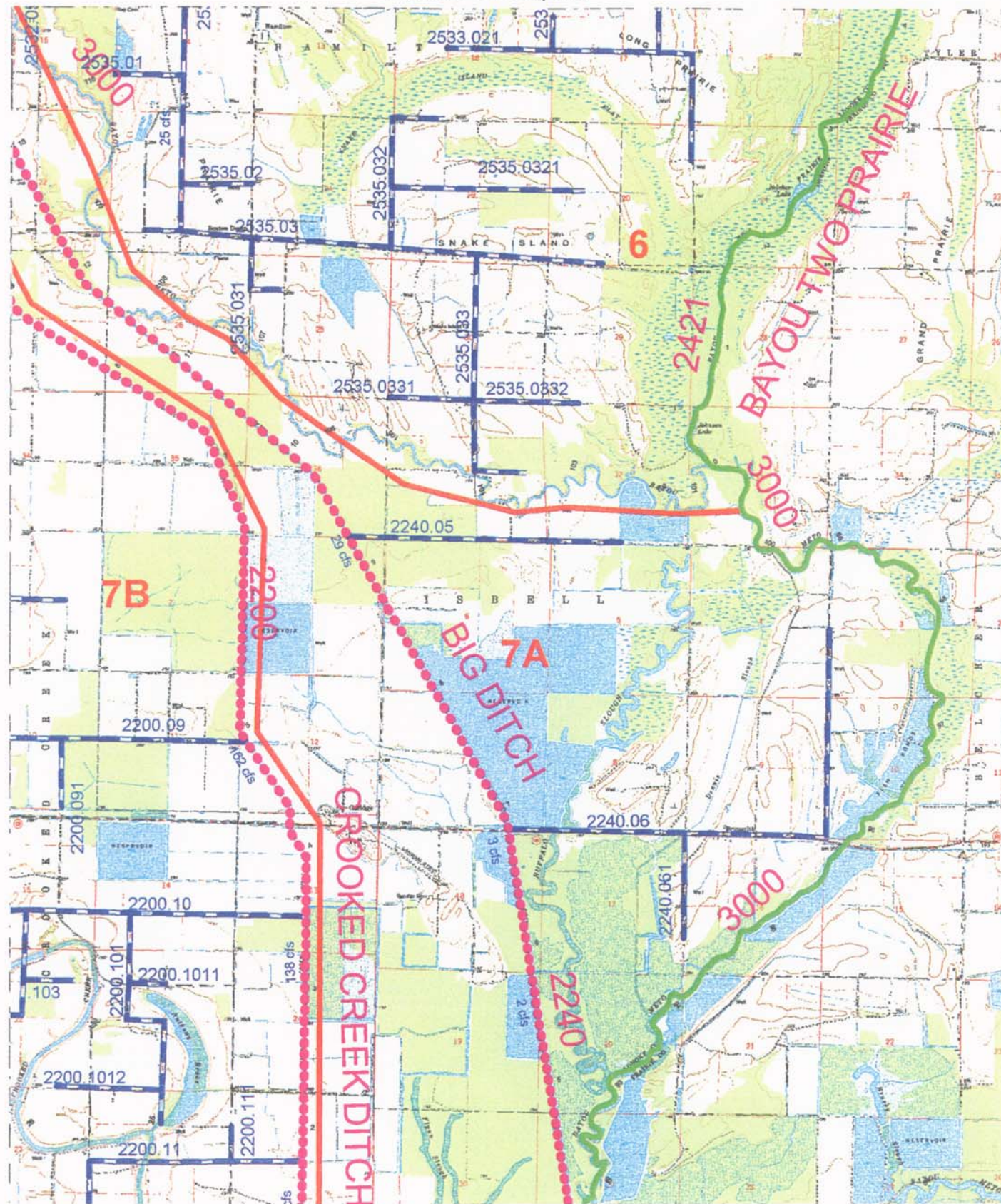




Parkers Corner, AR

Humnoke, AR

Stuttgart North, AR



Humphrey, AR



US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches

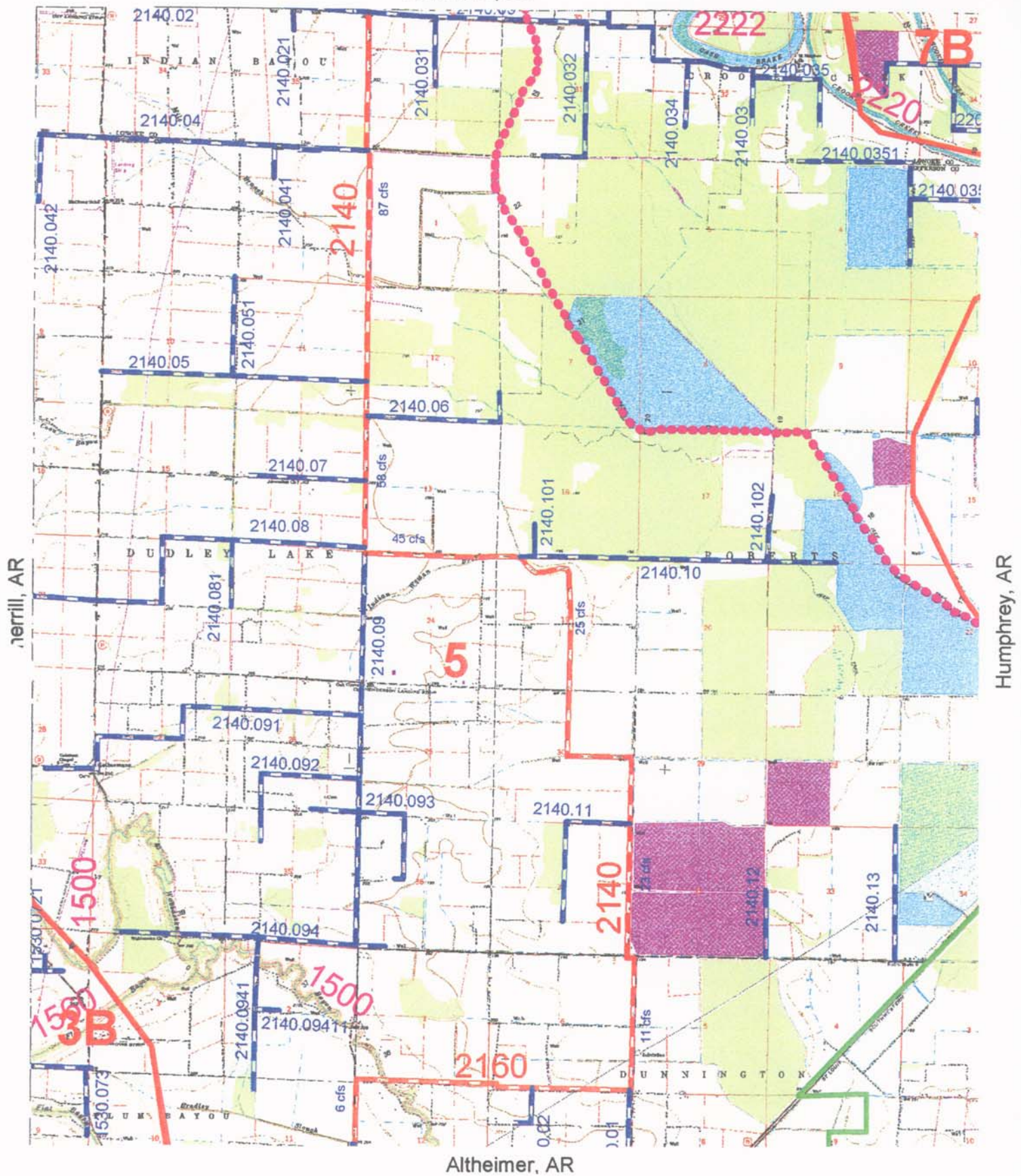


SCALE=1:62,500

Geridge, AR  
Project Map



Humnoke, AR



Humnoke, AR

Humphrey, AR

Altheimer, AR

Gethsemane, AR  
Project Map

US Army Corps  
of Engineers  
Memphis District

Ditches  
Pipelines  
Canals  
Bayou Metro Improvement Project Area  
Construction Reaches

N  
SCALE=1:62,500



Walker, AR

Wattensaw, AR

Des Arc West, AR

Carlisle, AR



**US Army Corps  
of Engineers** \*  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



## Hickory Plains, AR Project Map

SCALE=1:62,500



Culler, AR

England, AR

Geridae, AR

Gethsemane, AR

Humnoke, AR  
Project Map



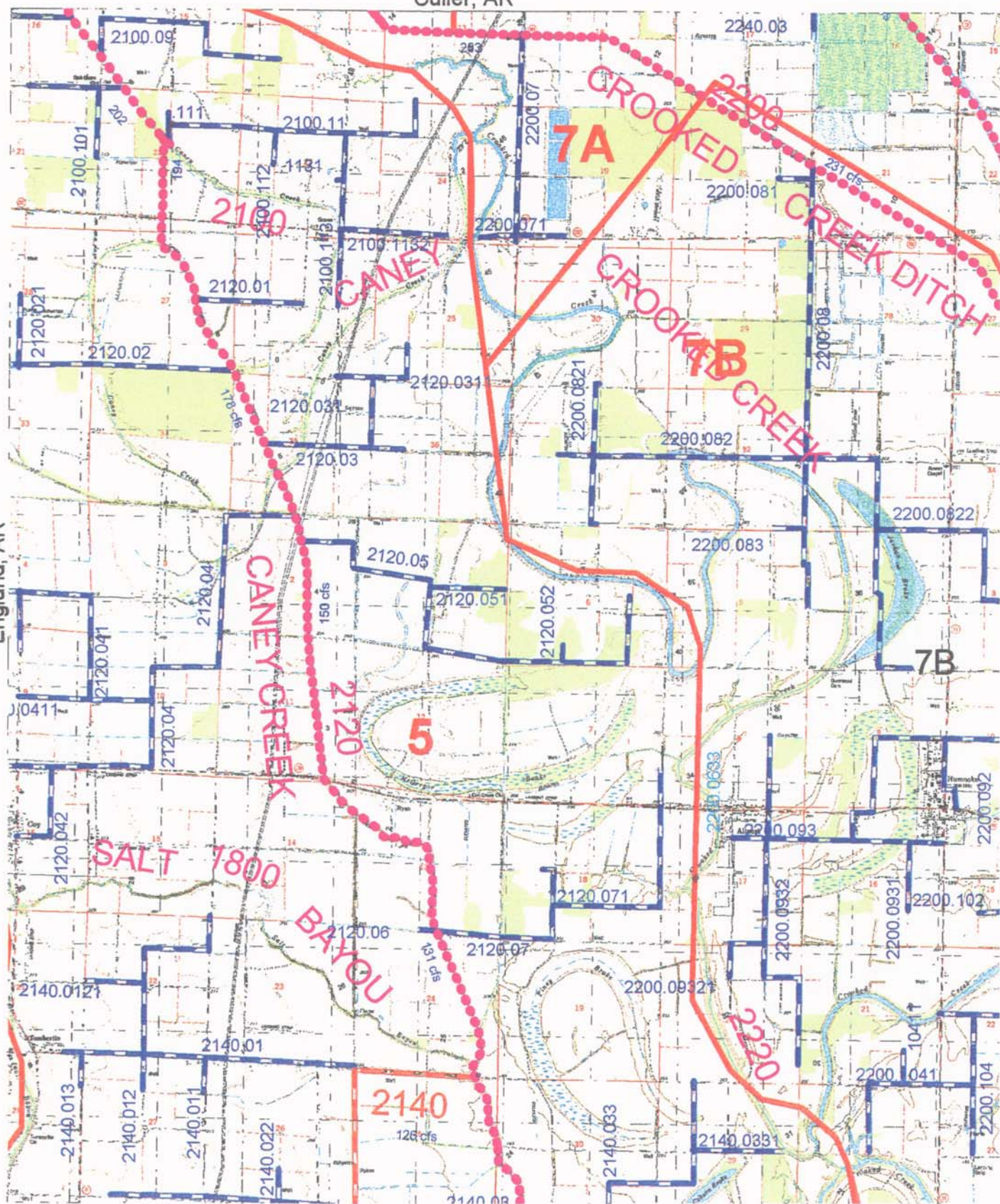
US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



SCALE=1:62,500





Geridge, AR

Gethsemane, AR

Stuttgart South, AR

Humphrey SW, AR

Humphrey NW, AR  
Project Map



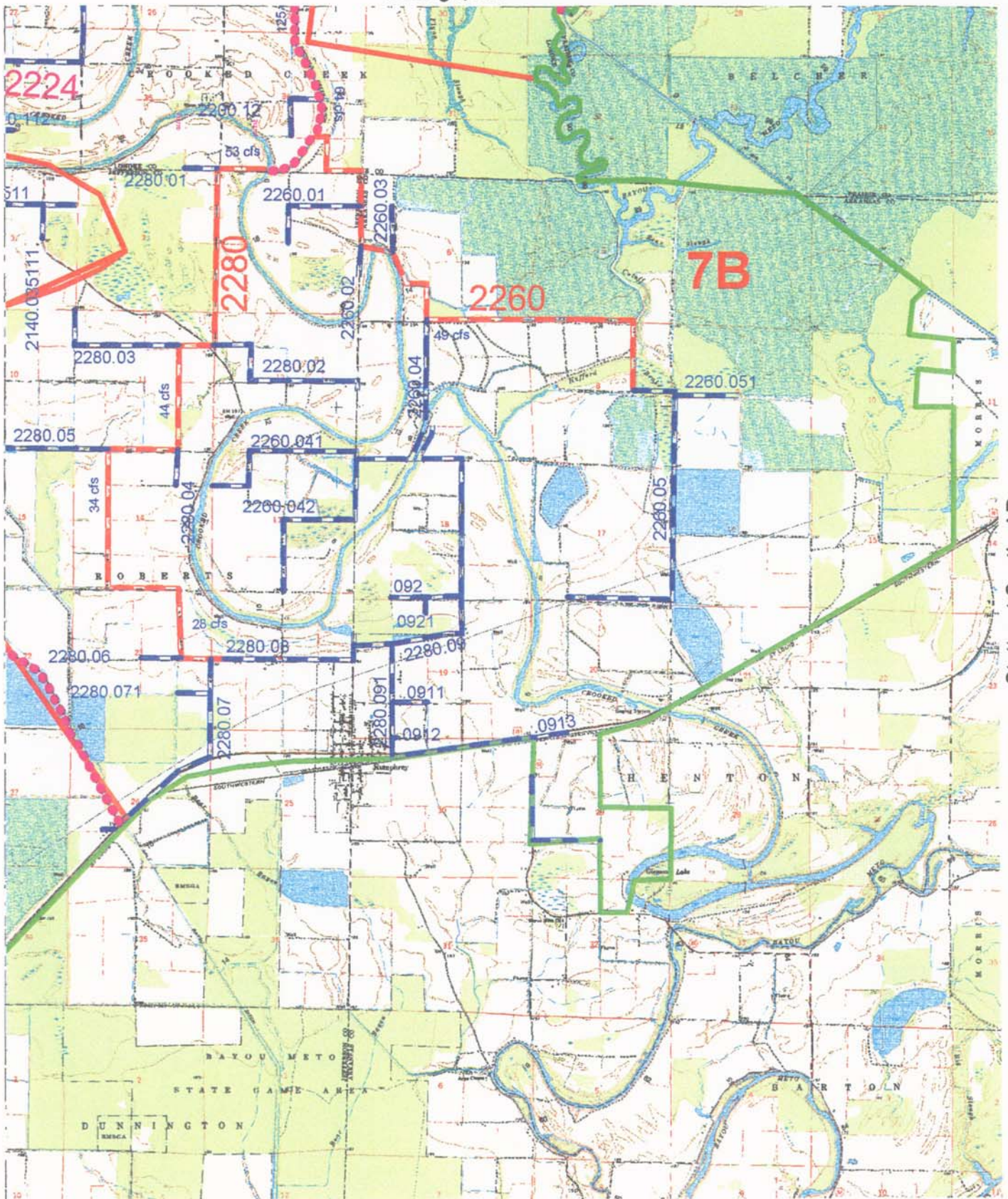
US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



SCALE=1:62,500





Cabot, AR

McAlmont, AR

Lonoke, AR



Scott, AR

Jacksonville, AR  
Project Map



US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Metro Improvement Project Area  
Construction Reaches



SCALE=1:62,500



Scott, AR

Woodson, AR

England, AR

Wright, AR

Keo, AR  
Project Map



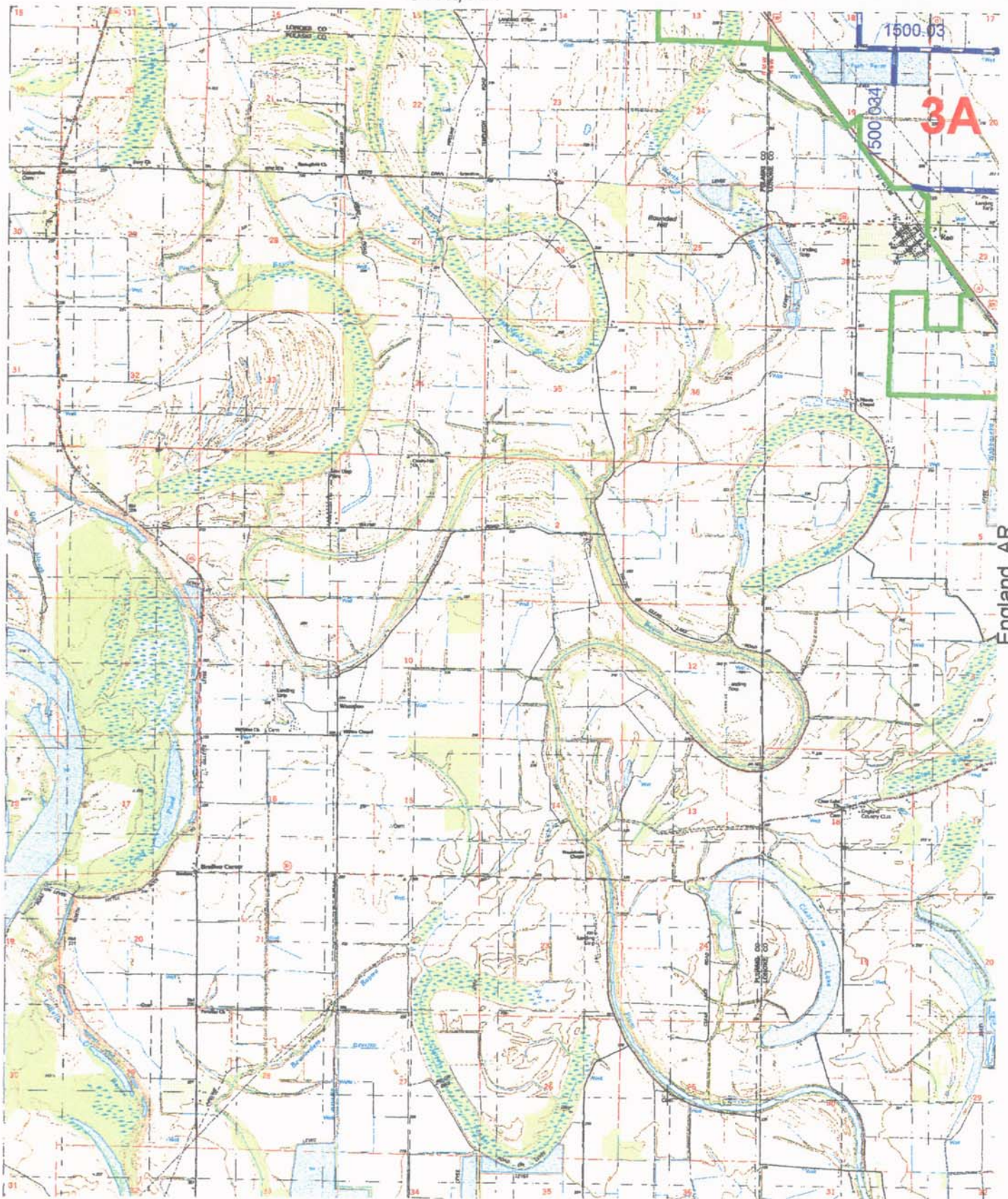
US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



SCALE=1:62,500



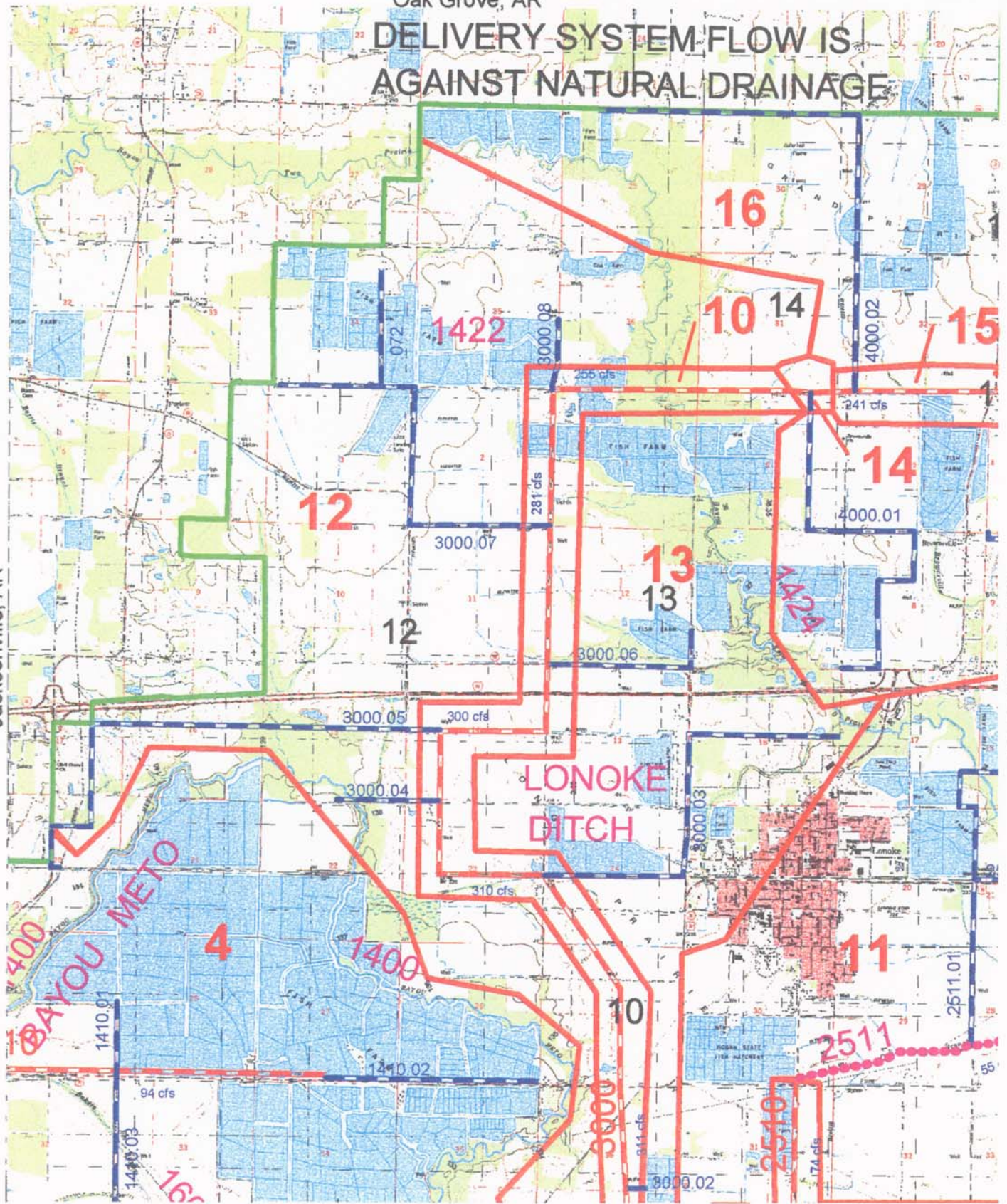


Oak Grove, AR

# DELIVERY SYSTEM FLOW IS AGAINST NATURAL DRAINAGE

Jacksonville, AR

Pocket Prairie, AR



Pettus, AR



US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches

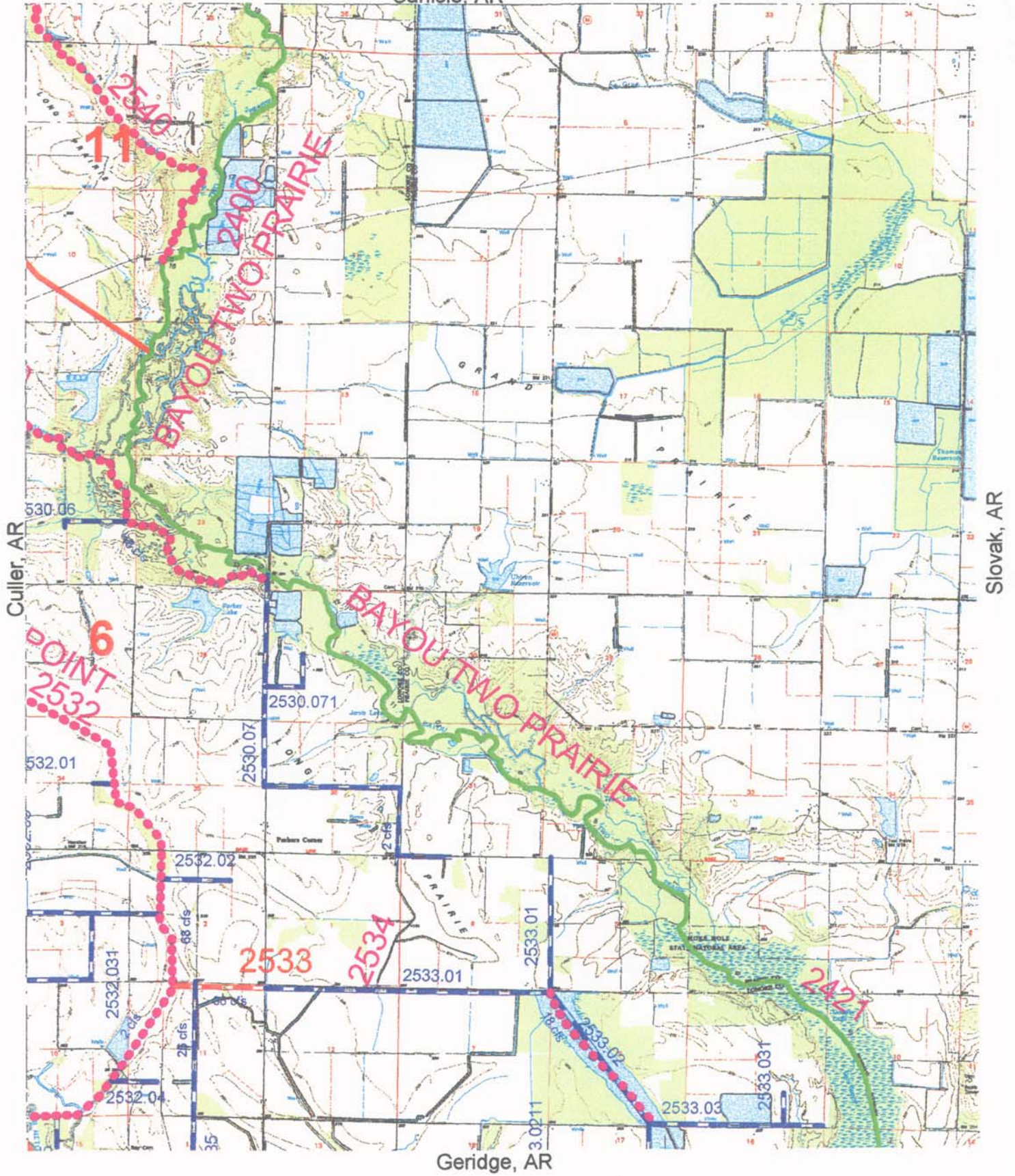


SCALE=1:62,500

Lonoke, AR  
Project Map



Carlisle, AR



US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Metro Improvement Project Area  
Construction Reaches



SCALE=1:62,500

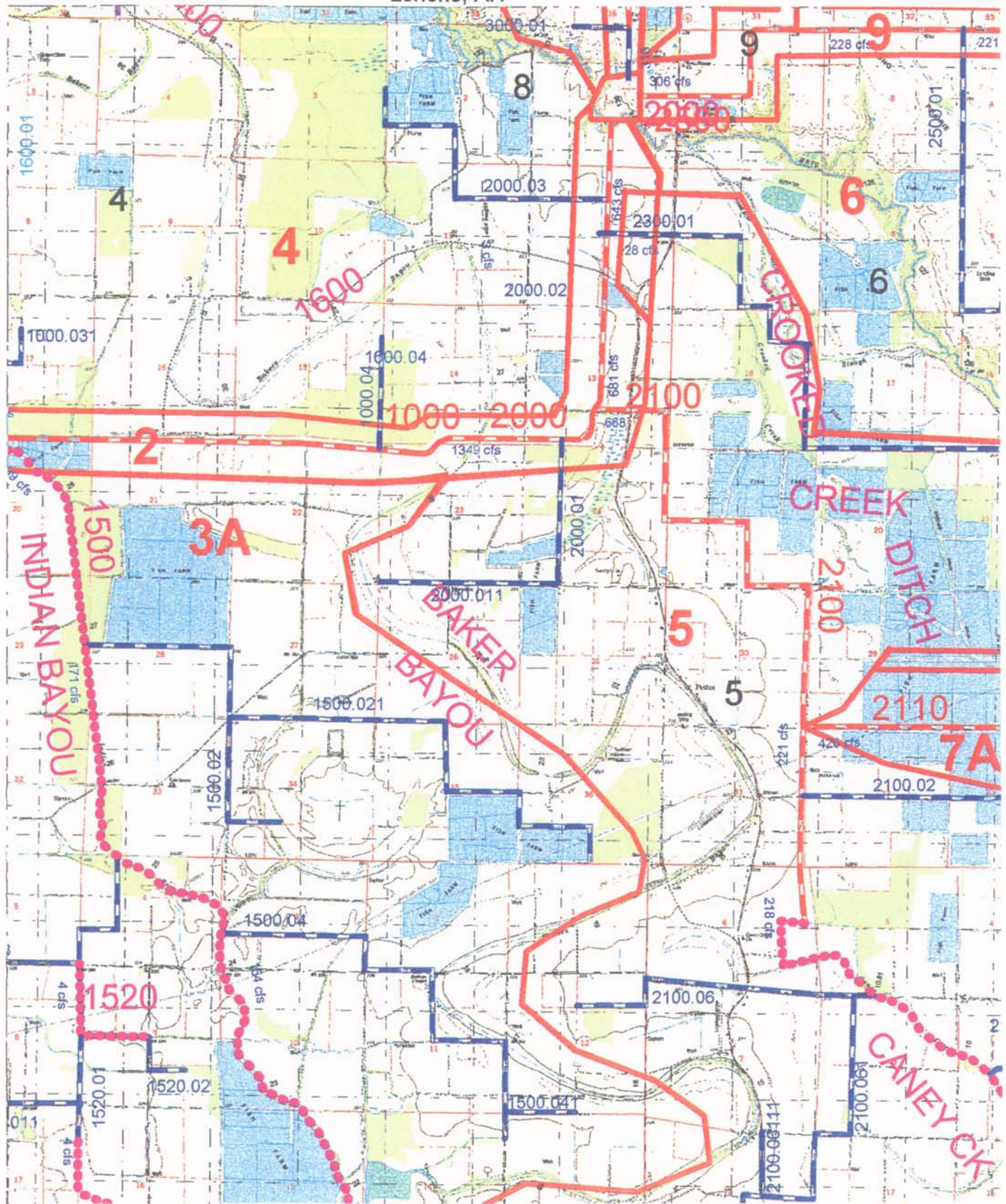
Parkers Corner, AR  
Project Map



Lonoke, AR

Scott, AR

Culler, AR



England, AR



US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



SCALE=1:62,500

Pettus, AR  
Project Map







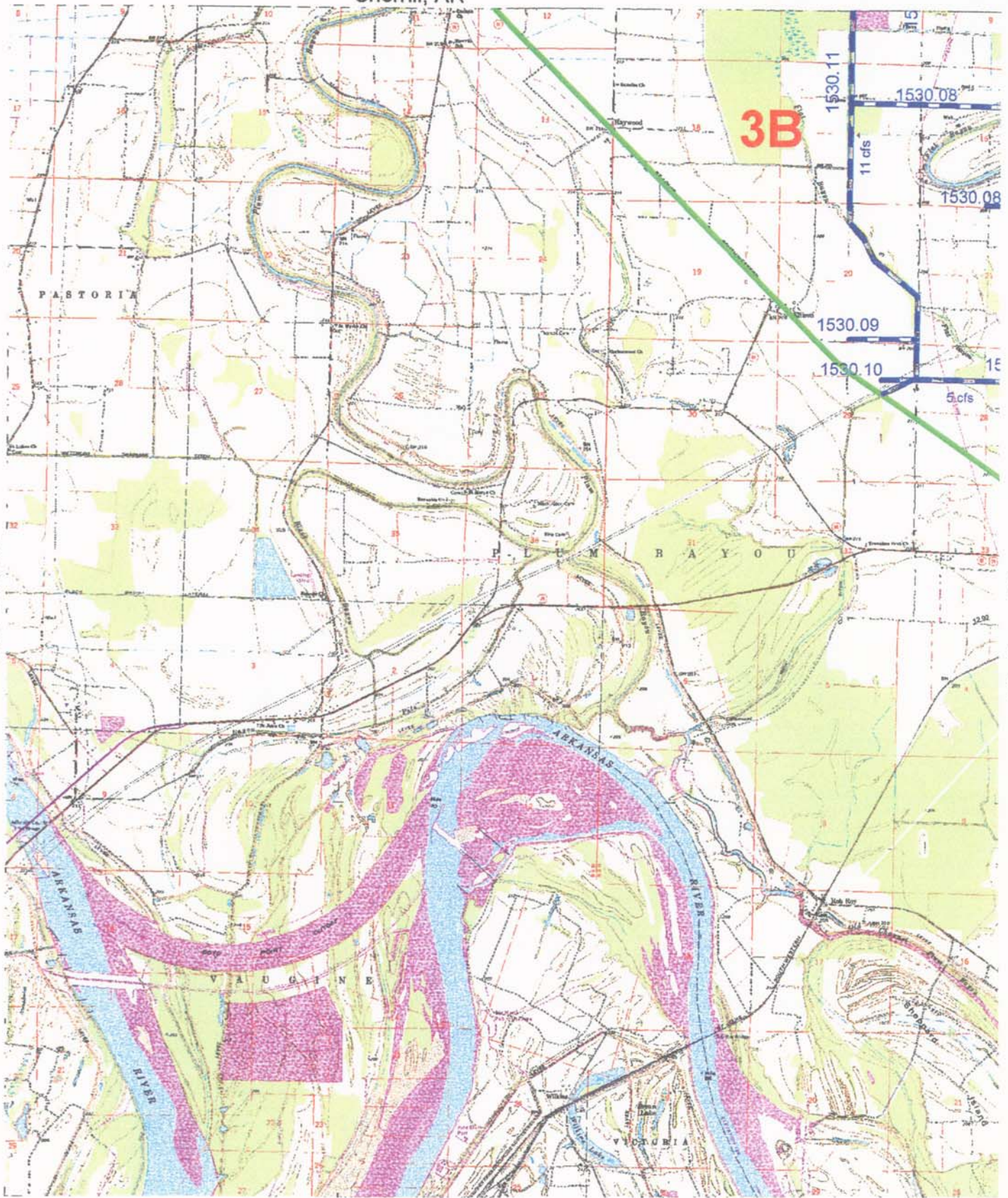
Sherrill, AR

White Hall, AR

Altheimer, AR

3B

1530.11  
1530.08  
1530.08  
1530.09  
1530.10  
11 cfs  
5 cfs



Ladd, AR

Rob Roy, AR  
Project Map



US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



SCALE=1:62,500



Jacksonville, AR

et Home, AR

Pettus, AR

Keo, AR

## Scott, AR Project Map

SCALE=1:62,500



**US Army Corps  
of Engineers** <sup>4</sup>  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



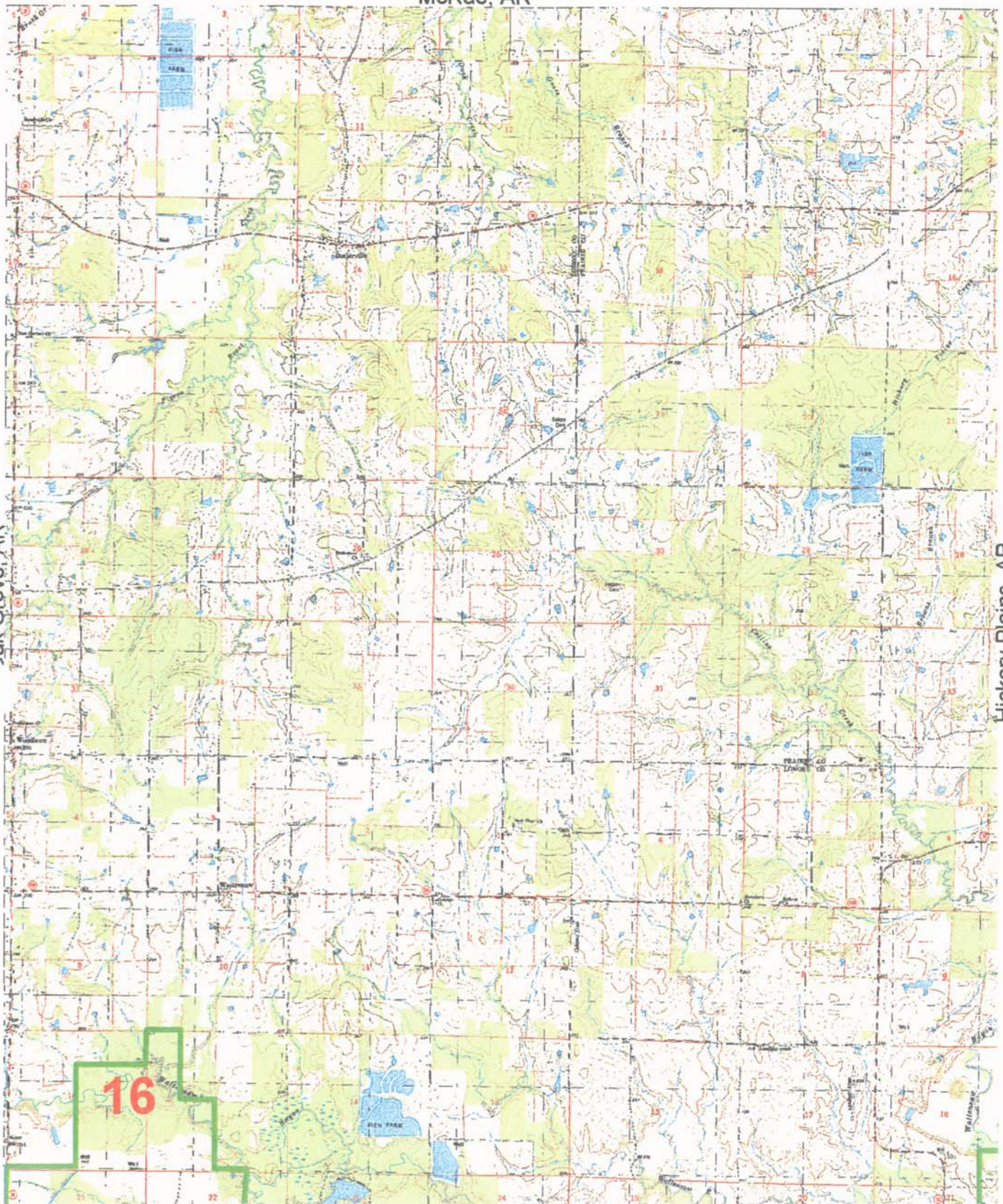




McRae, AR

Jak Grove, AR

Hickory Plains, AR



Pocket Prairie, AR



US Army Corps  
of Engineers  
Memphis District



Ditches  
Pipelines  
Canals  
Bayou Meto Improvement Project Area  
Construction Reaches



SCALE=1:62,500

Wattensaw, AR  
Project Map



# **HYDRAULIC STRUCTURES**



## Legend for Hydraulic Structures

-  Siphons
-  Drop Structures
-  Weirs
-  Reservoirs
-  Pumps
-  Pumping Stations
-  Gatewell Structures
-  Check Structures
-  Ditches
-  Pipelines
-  Canals
-  Bayou Meto Improvement Project Area
-  Construction Reaches



Gethsemane, AR

Roy, AR

Humphrey SW, AR

Moscow, AR



**US Army Corps  
of Engineers**   
Memphis District



## Alzheimer, AR Hydraulic Structures

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[illegible]

Hazen, AR

SCALE=1:62,500



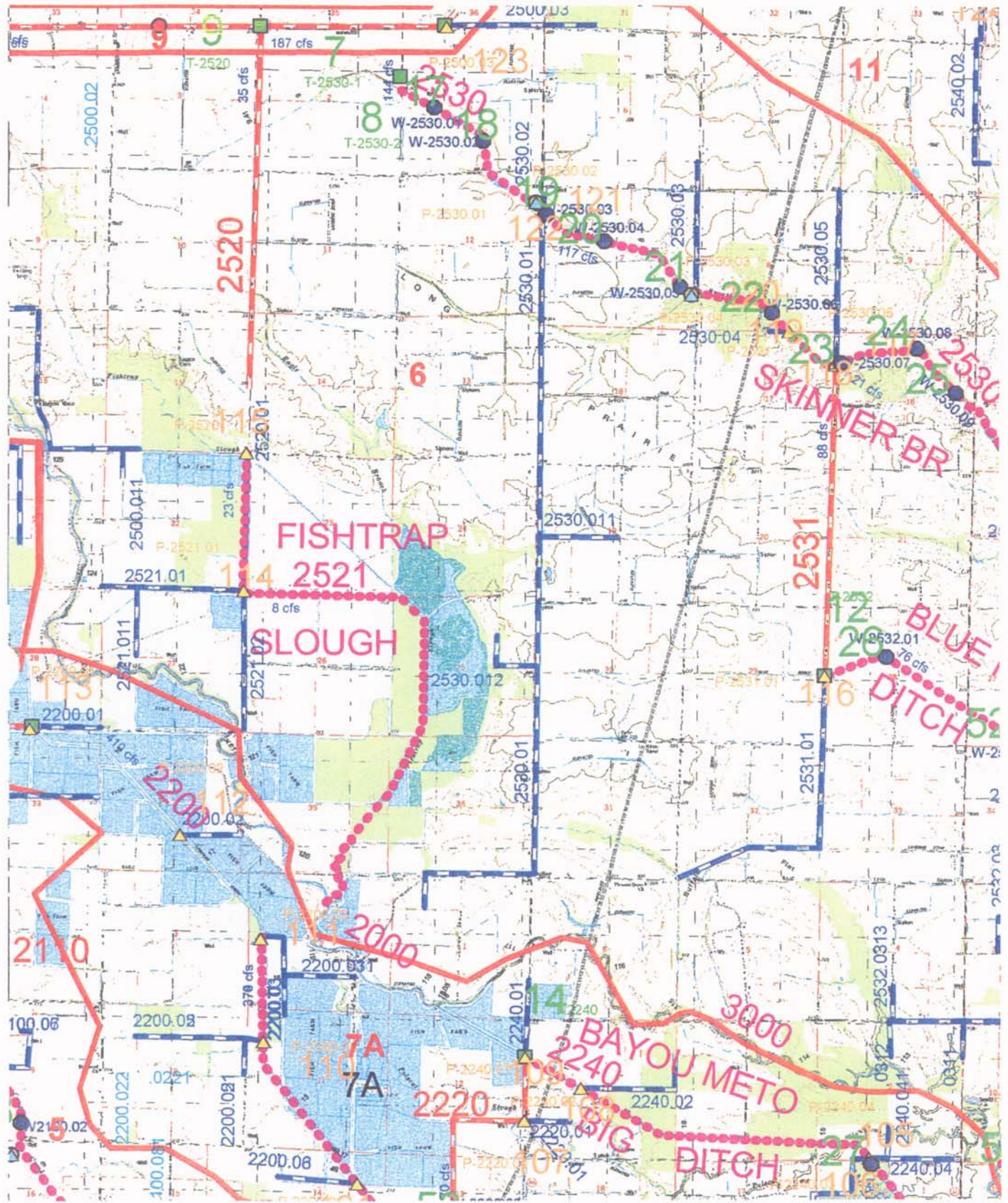
**US Army Corps  
of Engineers**   
Memphis District



# Pocket Prairie, AR

Wettus, AR

Parkers Corner, AR



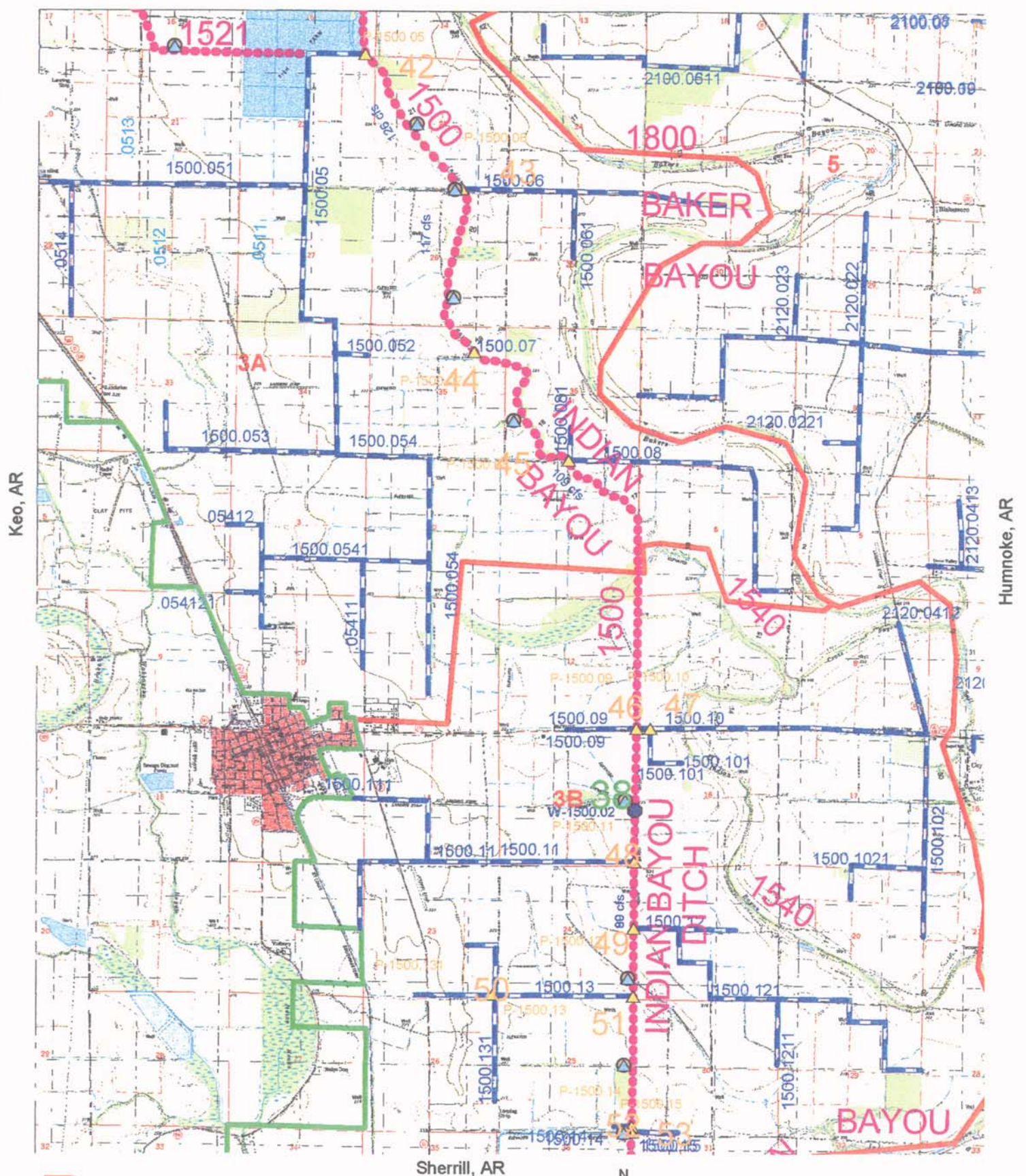
Humnoke, AR



SCALE=1:62,500



Pettus, AR



**US Army Corps  
of Engineers**  
Memphis District

## England, AR Hydraulic Structures

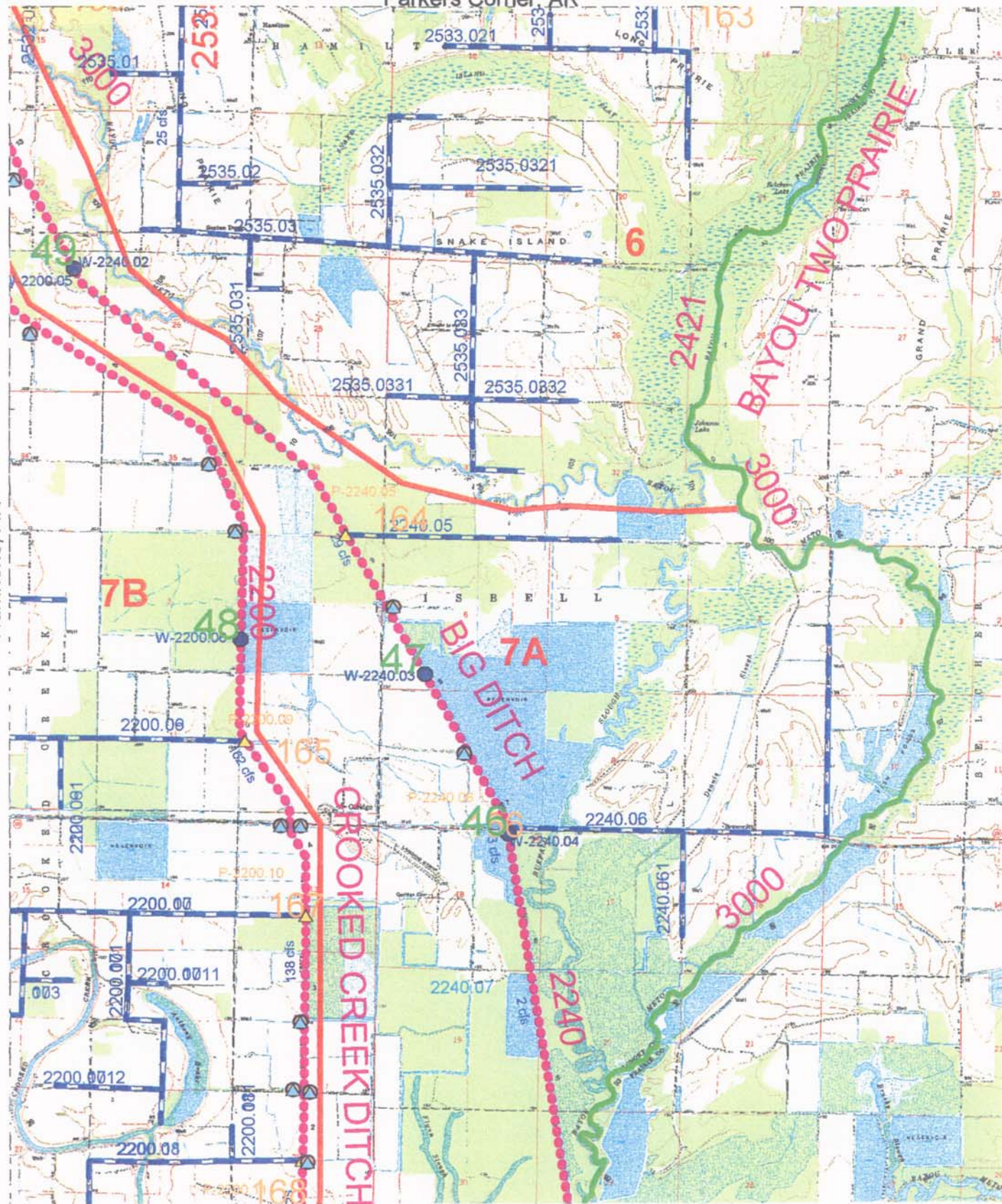
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Parkers Corner, AR

Humnoke, AR

Stuttgart North, AR



Humphrey, AR



US Army Corps  
of Engineers  
Memphis District

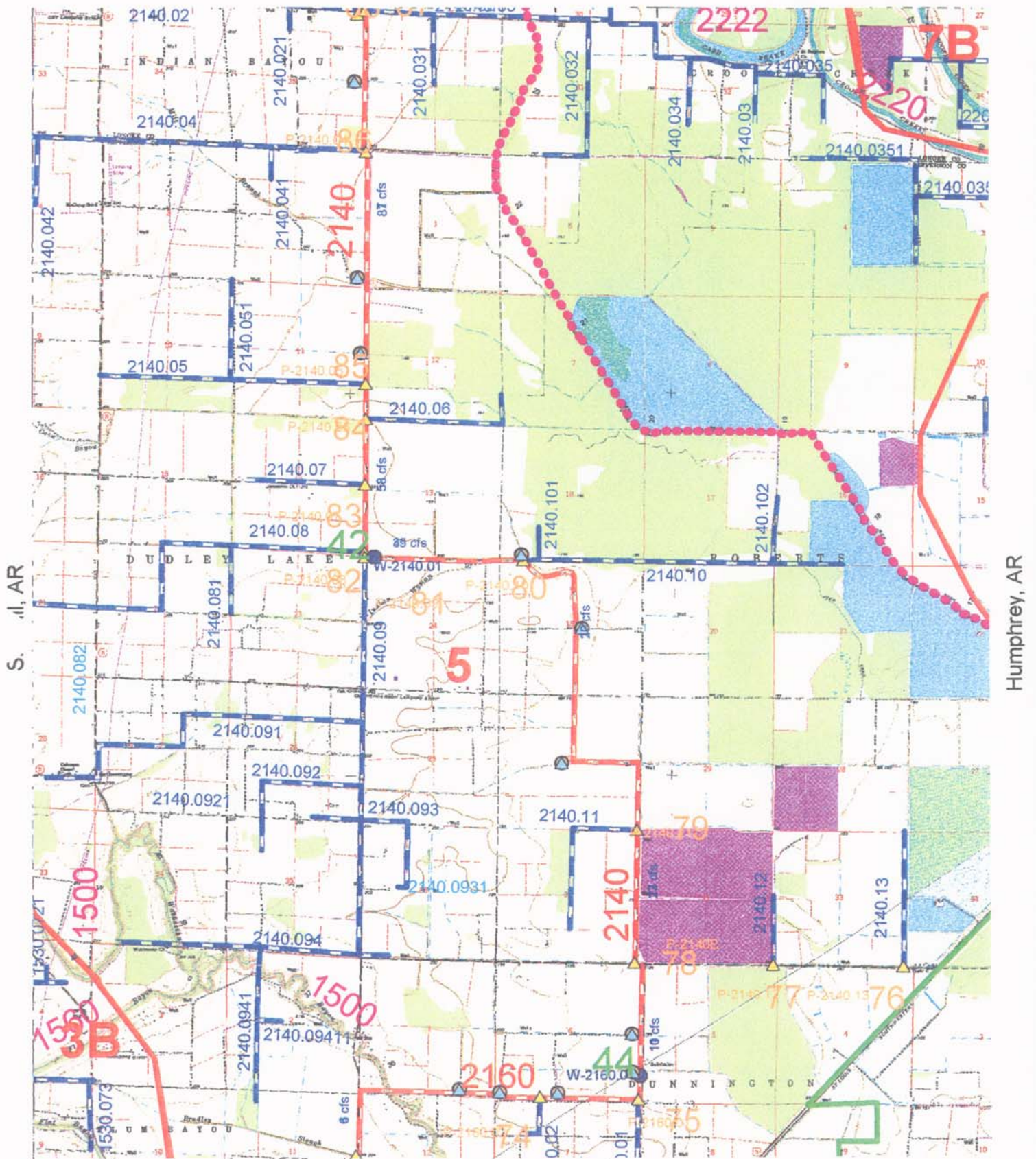


SCALE=1:62,500

Geridge, AR  
Hydraulic Structures



Humnoke, AR



**US Army Corps  
of Engineers** ✕  
Memphis District

Alzheimer, AR



## Gethsemane, AR Hydraulic Structures

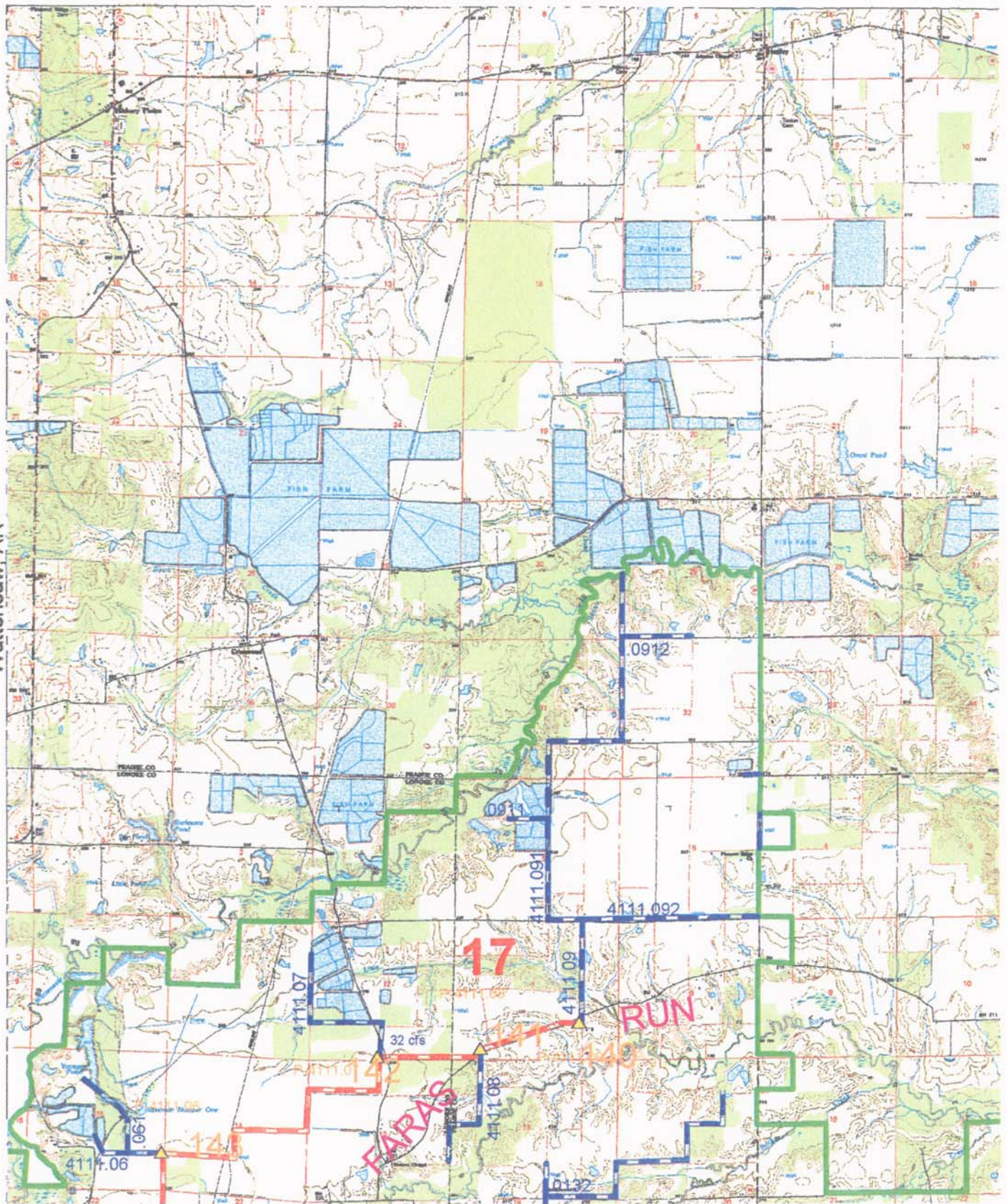
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Walker, AR

Wattensaw, AR

Des Arc West, AR



Carlisle, AR



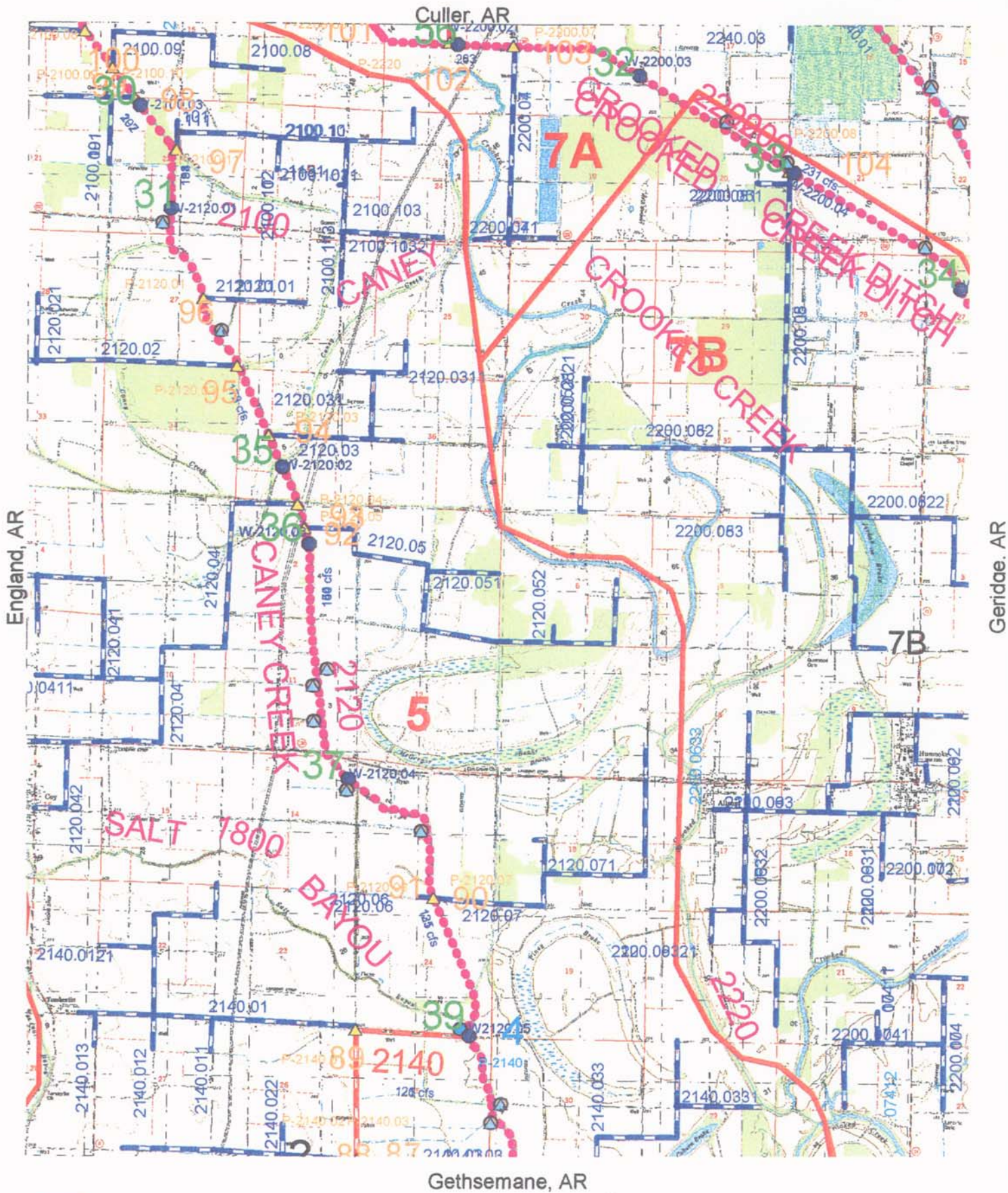
US Army Corps  
of Engineers  
Memphis District



Hickory Plains, AR  
Hydraulic Structures

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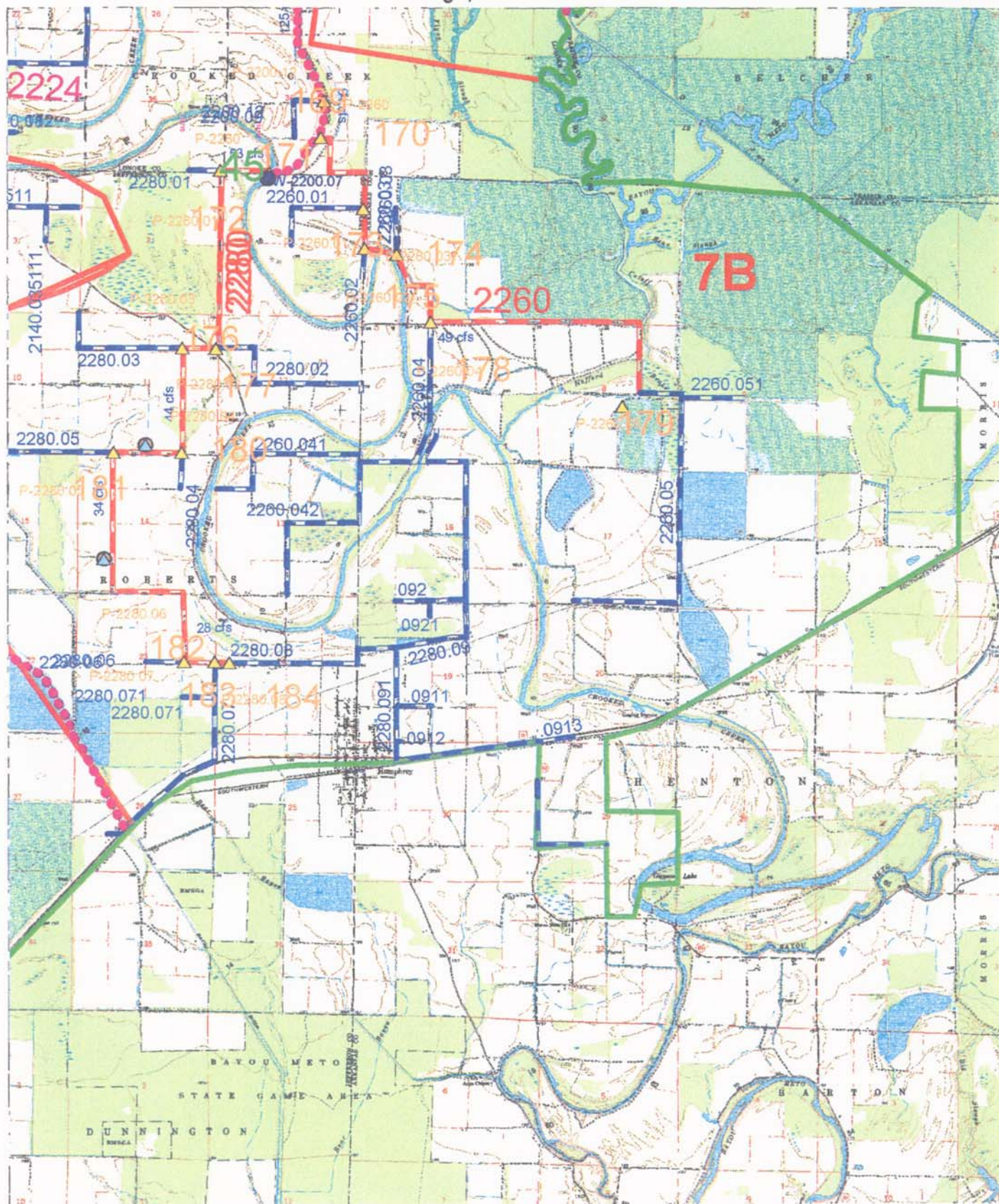
US Army Corps  
of Engineers  
Memphis District



Geridge, AR

Gethsemane, AR

Stuttgart South, AR



Humphrey SW, AR



US Army Corps  
of Engineers  
Memphis District



SCALE=1:62,500

Humphrey NW, AR  
Hydraulic Structures



Cabot, AR

McAlmont, AR

Lonoke, AR

Scott, AR



US Army Corps  
of Engineers  
Memphis District



SCALE=1:62,500

Jacksonville, AR  
Hydraulic Structures

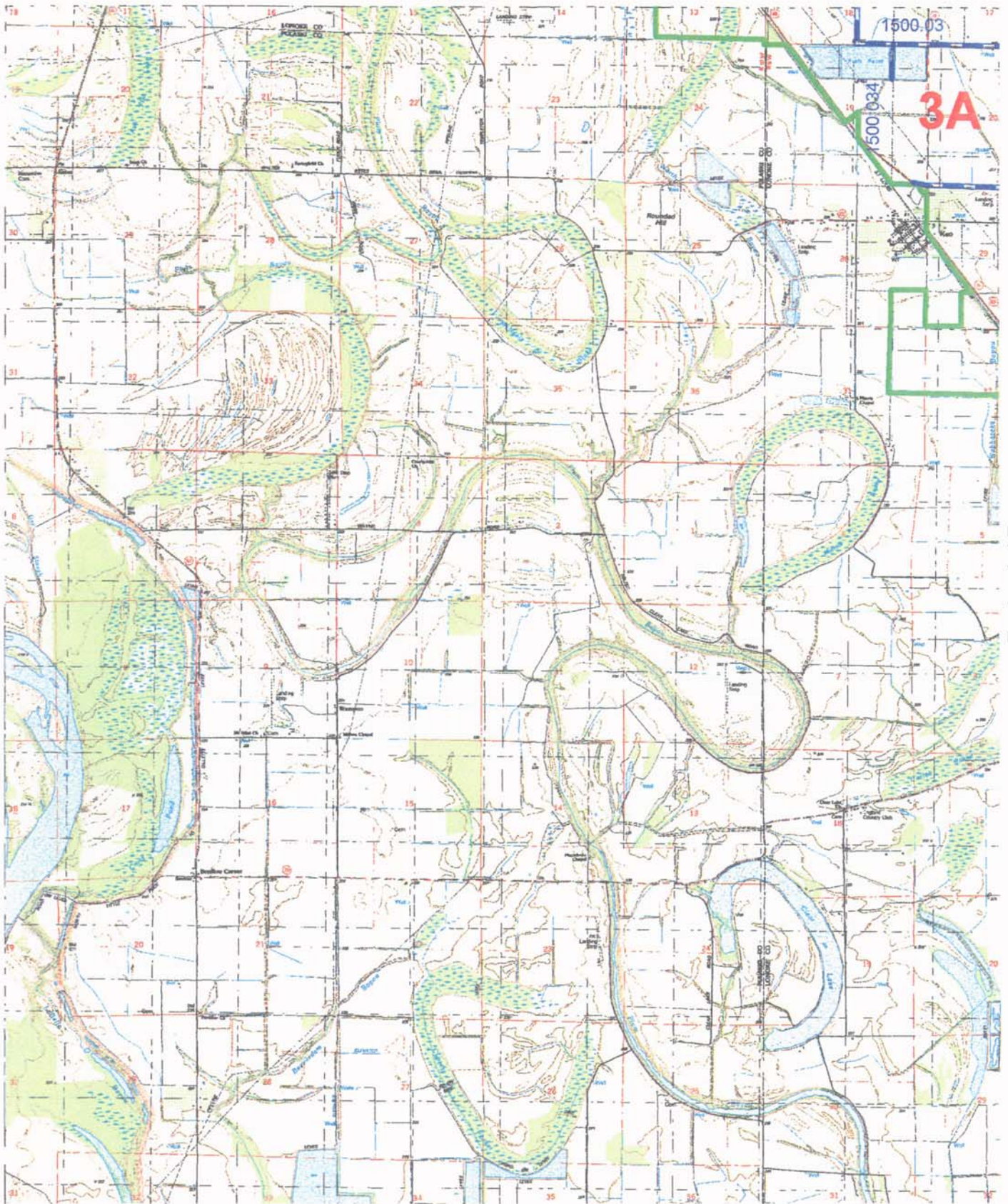




Scott, AR

Woodson, AR

England, AR



Wright, AR



US Army Corps  
of Engineers  
Memphis District

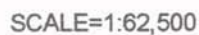
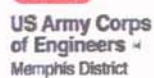
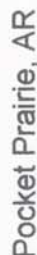


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Keo, AR  
Hydraulic Structures



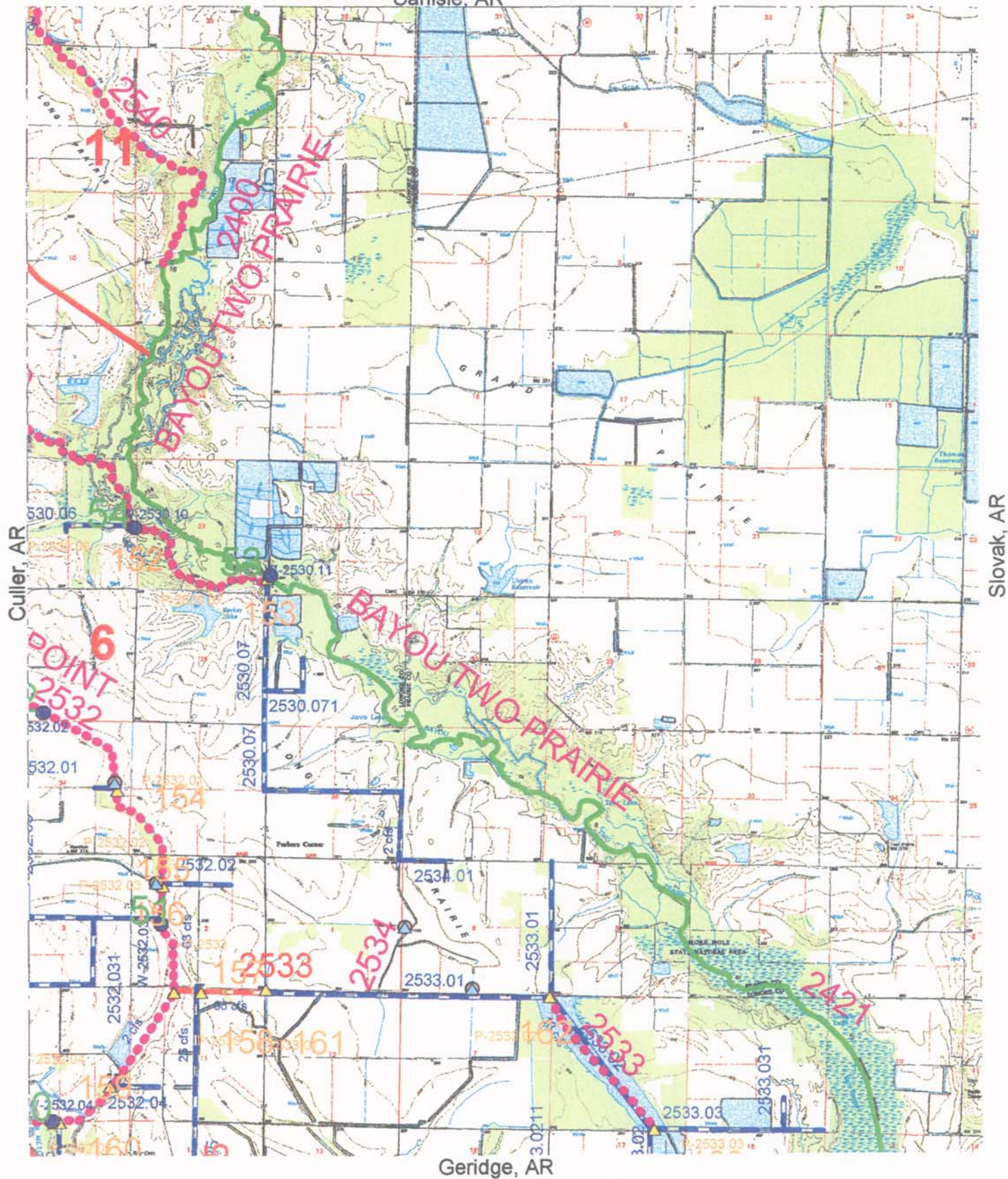
DELIVERY SYSTEM FLOW IS AGAINST NATURAL DRAINAGE



## Lonoke, AR Hydraulic Structures



Carlisle, AR



Slovak, AR



**US Army Corps  
of Engineers** -  
Memphis District



## Parkers Corner, AR Hydraulic Structures

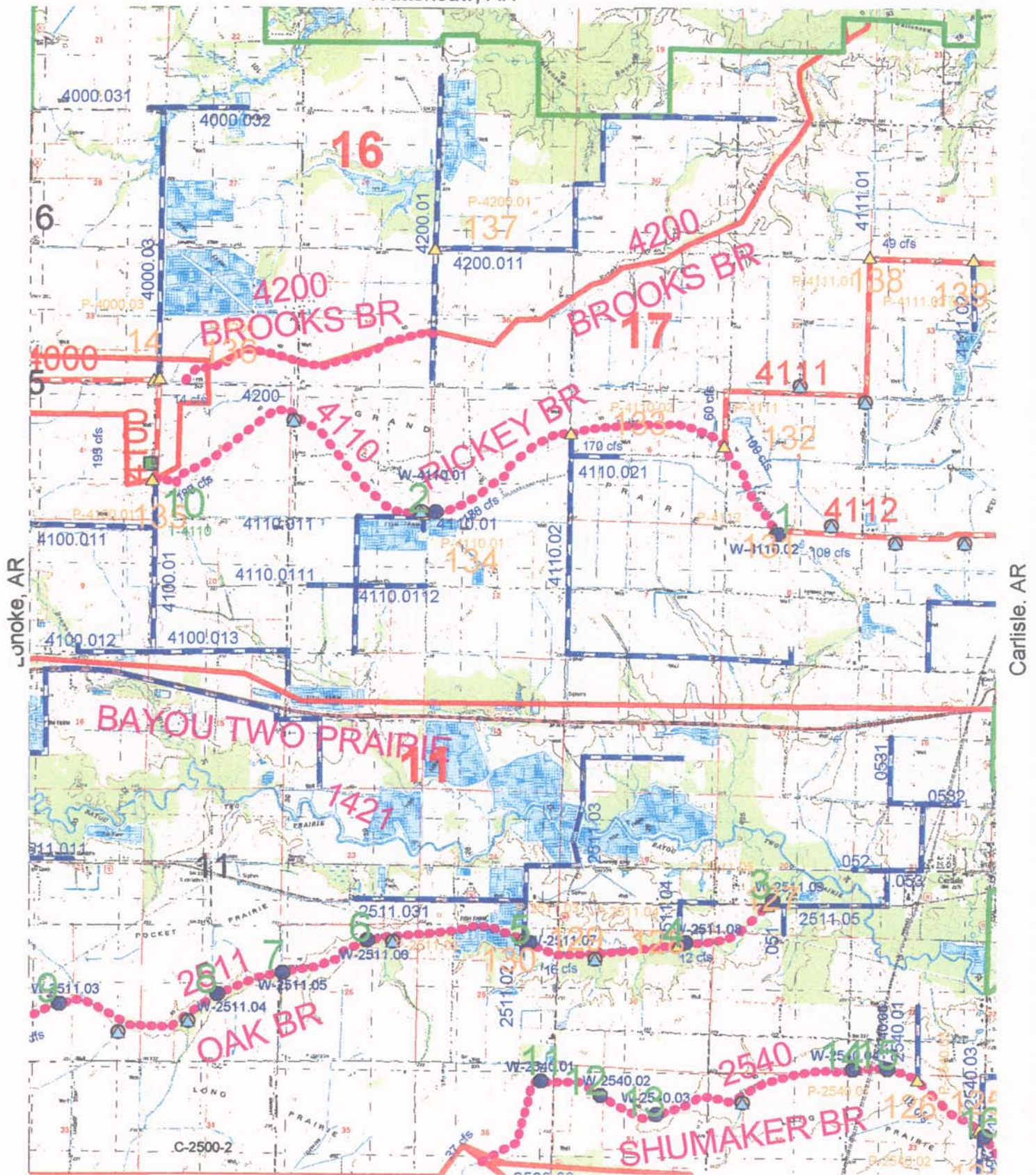
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Lonoke, AR



Carlisle. AR

Culler, AR



## Pocket Prairie, AR Hydraulic Structures

SCALE=1:62,500



**US Army Corps  
of Engineers**   
Memphis District



Sherrill, AR



Ladd, AR



**US Army Corps  
of Engineers** ★  
Memphis District



SCALE=1:62,500

Rob Roy, AR  
Hydraulic Structures



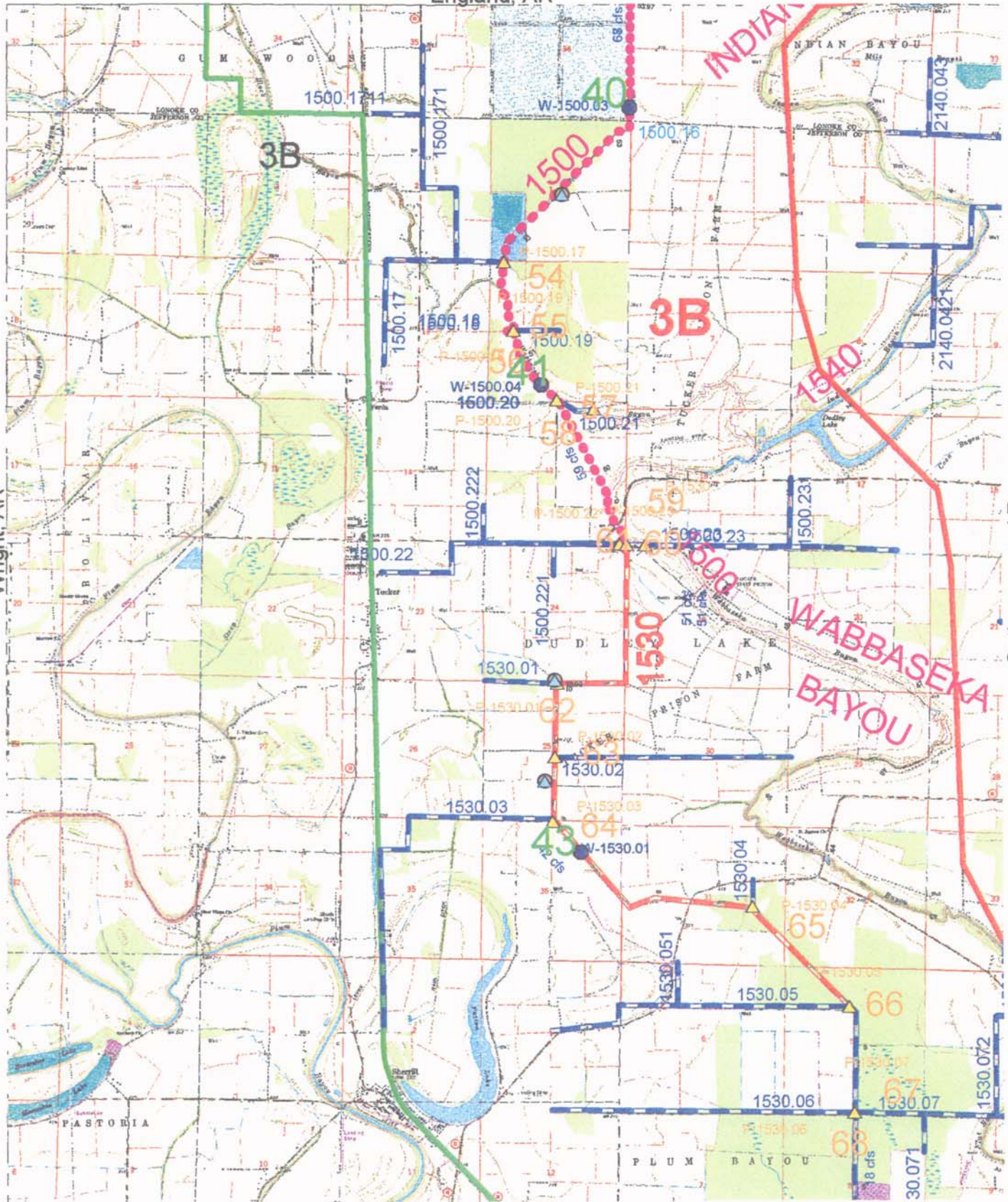




England, AR

Wright, AR

Gethsemane, AR



Rob Roy, AR

Sherrill, AR  
Hydraulic Structures



US Army Corps  
of Engineers  
Memphis District

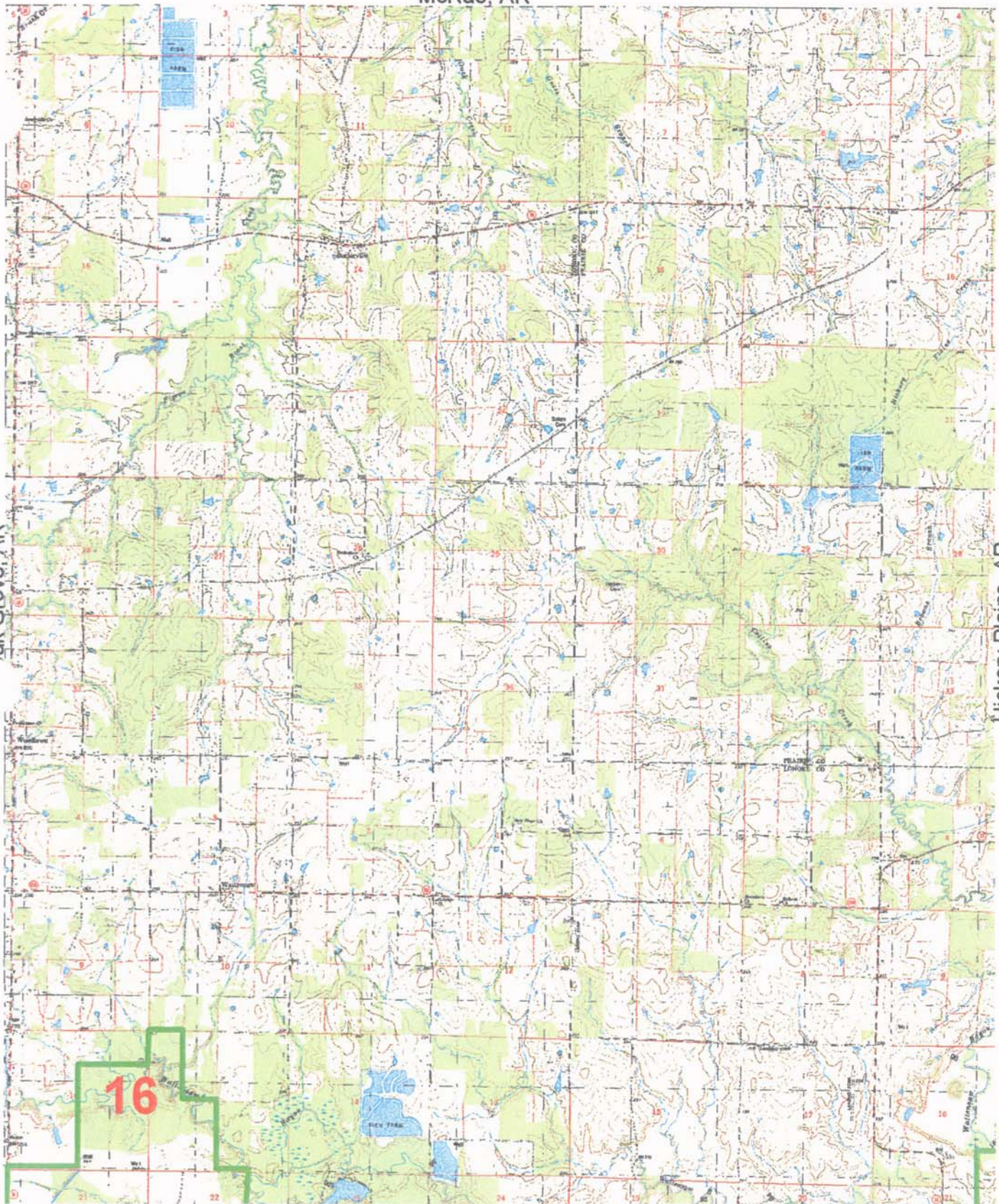
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McRae, AR

Jak Grove, AR

Hickory Plains, AR



Pocket Prairie, AR



US Army Corps  
of Engineers  
Memphis District



Wattensaw, AR  
Hydraulic Structures

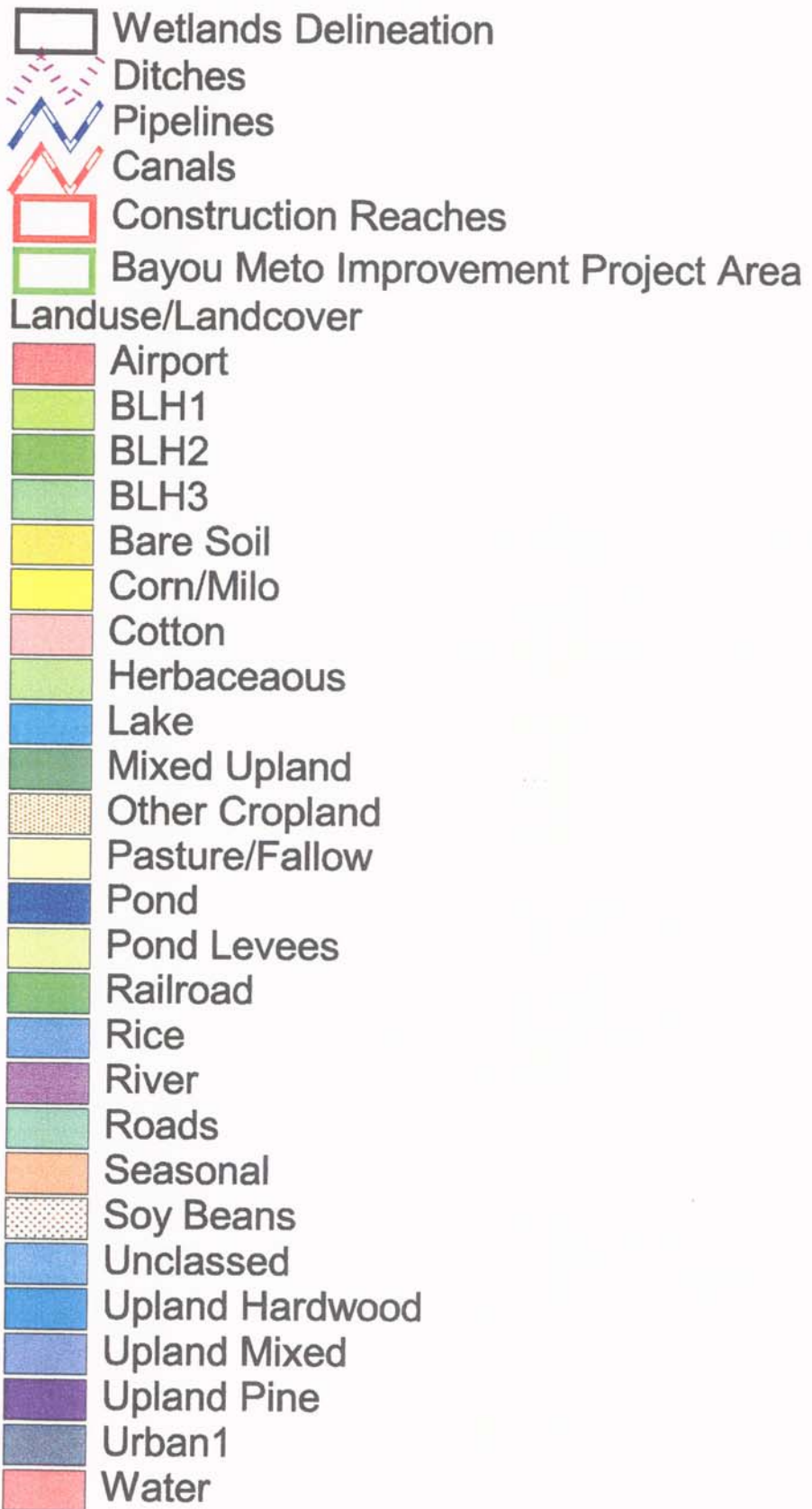
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**LAND USE/  
LAND COVER &  
WETLANDS**



# Landuse/Landcover & Wetlands





Gethsemane, AR

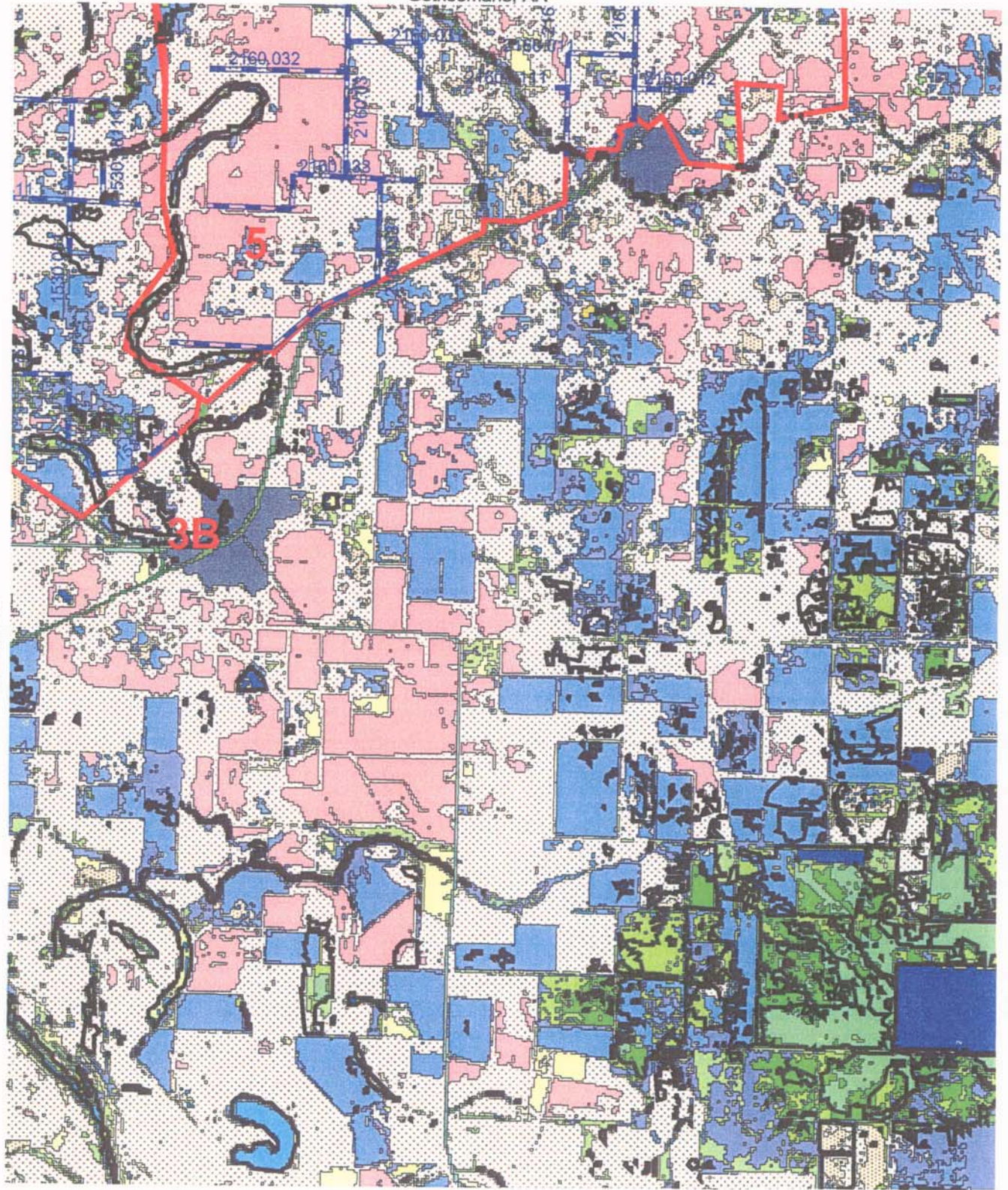
Rob Roy, AR

Humphrev SW, AR

Moscow, AR

Alzheimer, AR  
Landuse/Wetlands

SCALE=1:62,500



US ARMY CORPS  
OF ENGINEERS  
WASHINGTON, DC  
NATIONAL CENTER



Pocket Prairie, AR

Parkers Corner, AR



SCALE=1:62,500

Carlisle, AR  
Landuse/Wetlands



LES ARTISTES CITOYENS  
DU FEMINISME  
BAGNOLLE LECHE



Pettus, AR

Parkers Corner, AR

Humnoke, AR

Culler, AR  
Landuse/Wetlands



SCALE=1:62,500



Sherrill, AR



N

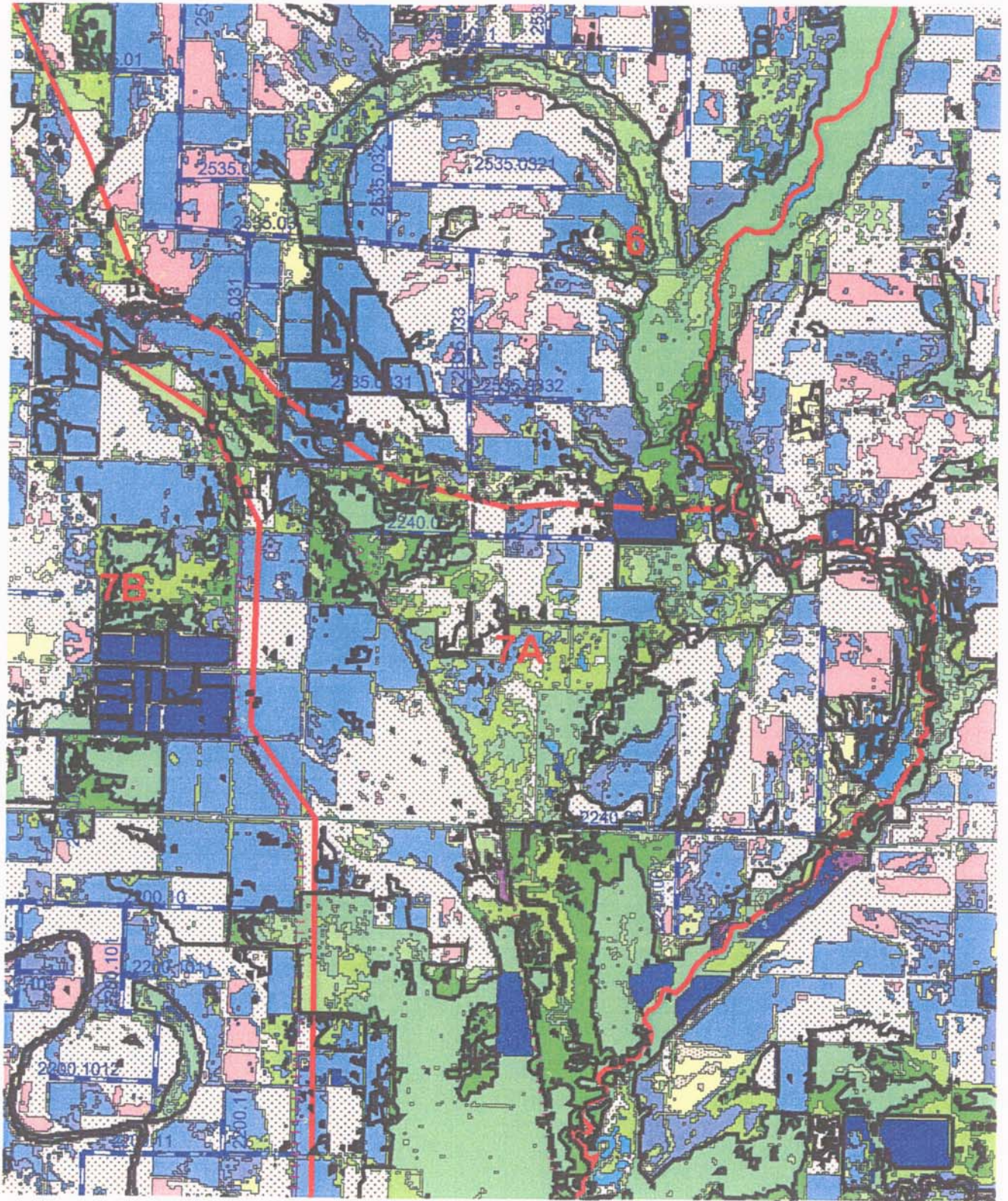
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Parkers Corner, AR

Humnoke, AR

Stiffmart North, AR



Humphrey, AR

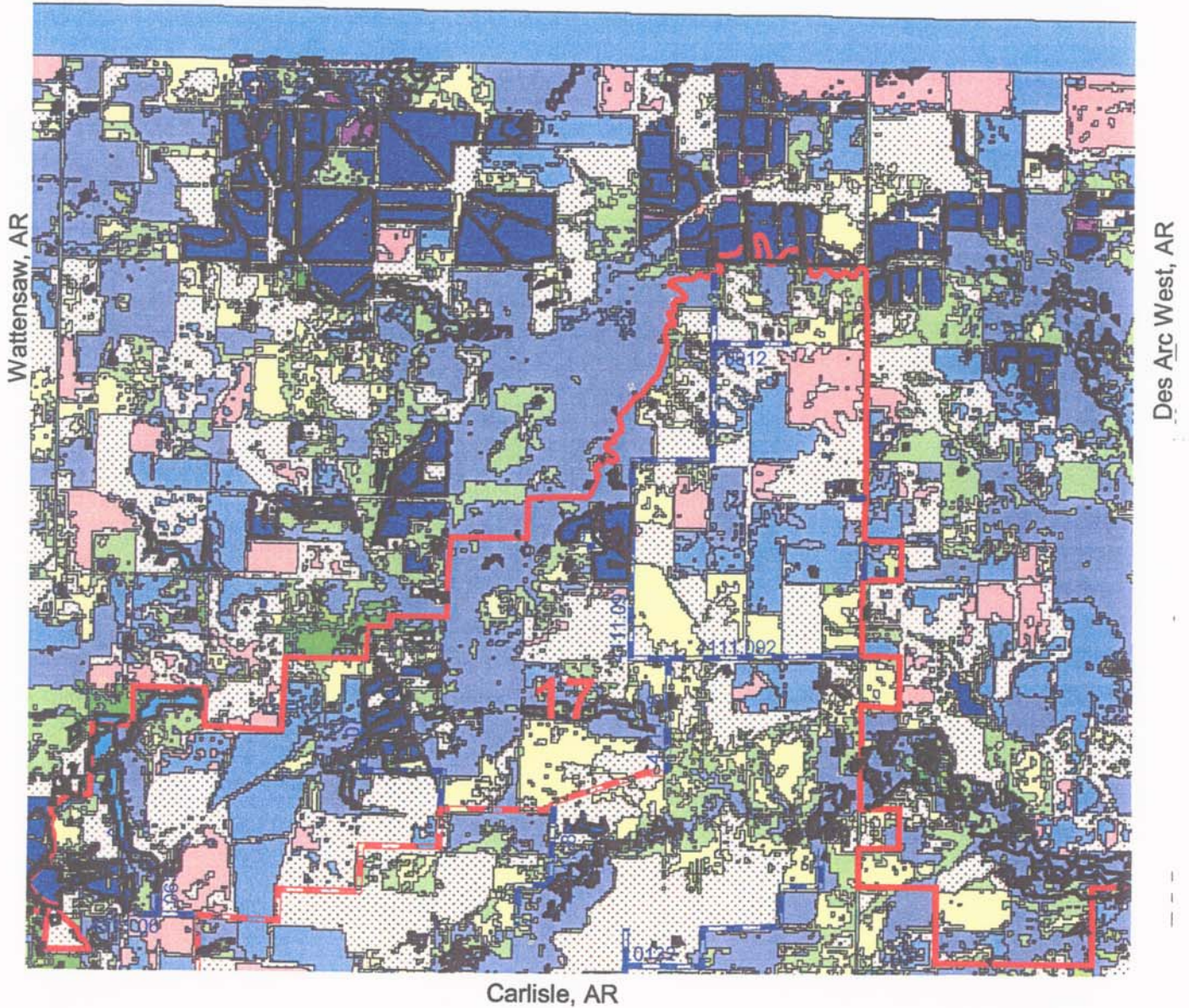
THE ARKANSAS  
LAND USE  
AND  
WETLANDS  
COMMISSION  
MEMBER OF THE  
NATIONAL  
WETLANDS  
COMMISSION



SCALE=1:62,500

Geridge, AR  
Landuse/Wetlands





US Army Corps  
of Engineers  
Memphis District



SCALE=1:62,500

Hickory Plains, AR  
Landuse/Wetlands





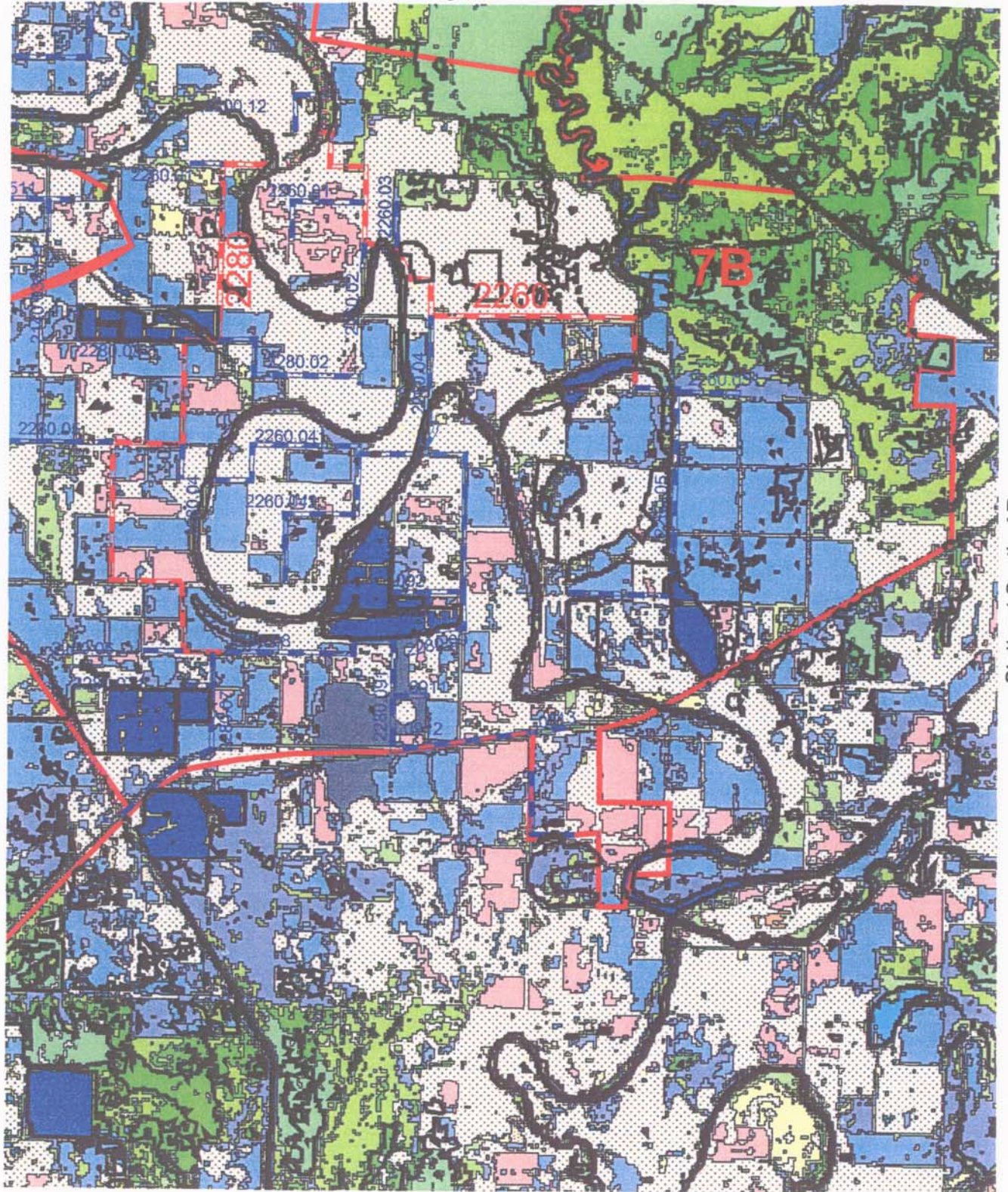
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Geridge, AR

Gethsemane, AR

Stuttgart South, AR



Humphrey SW, AR



US Army Corps  
of Engineers  
Memphis District



SCALE=1:62,500

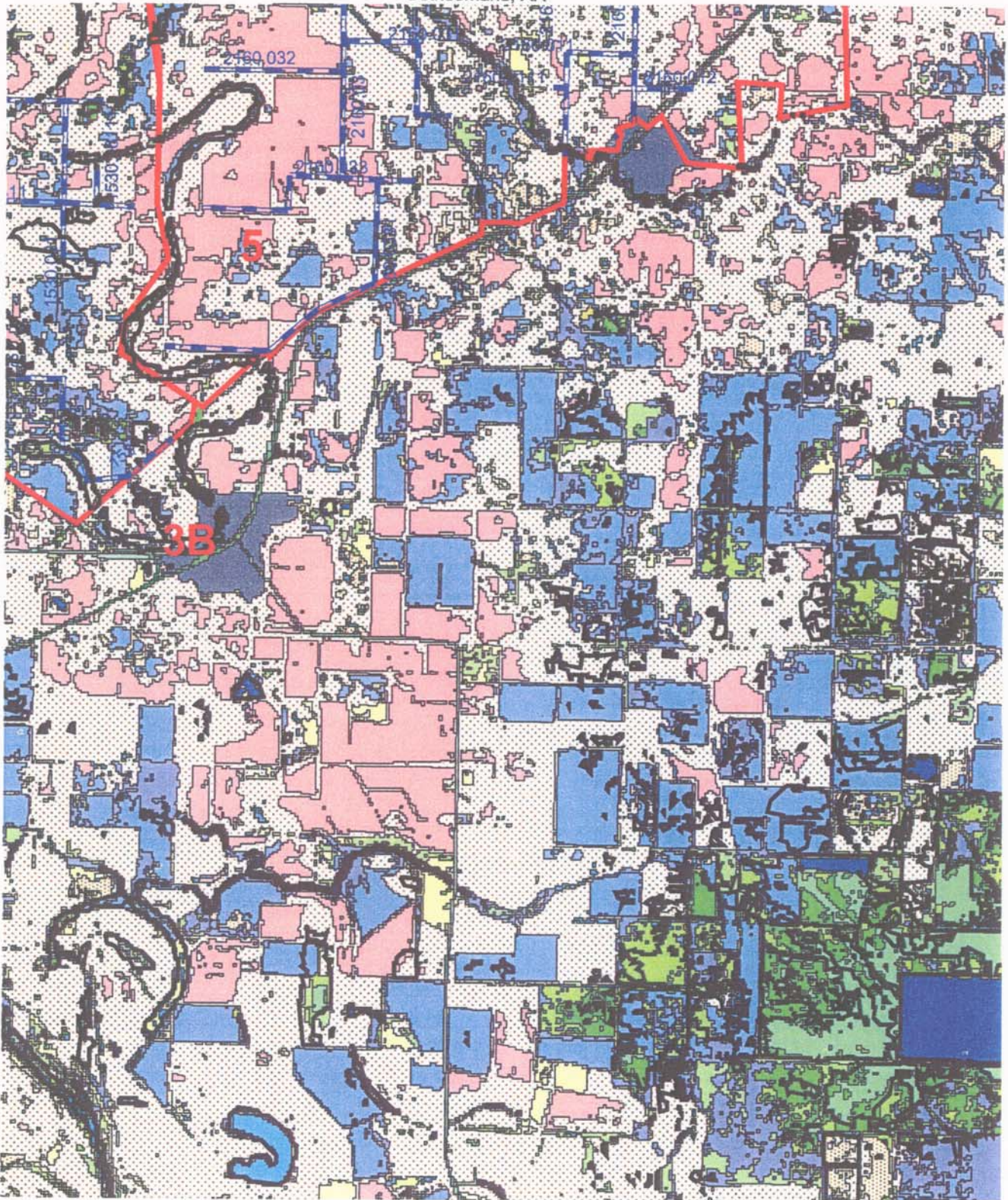
Humphrey NW, AR  
Landuse/Wetlands



Gethsemane, AR

Rob Roy, AR

Humphrey SW, AR



Moscow, AR



US Army Corps  
of Engineers  
Memphis District



SCALE=1:62,500

Jacksonville, AR  
Landuse/Wetlands



Scott, AR

Woodson, AR

England, AR



Woodson, AR



Keo, AR  
Landuse/Wetlands

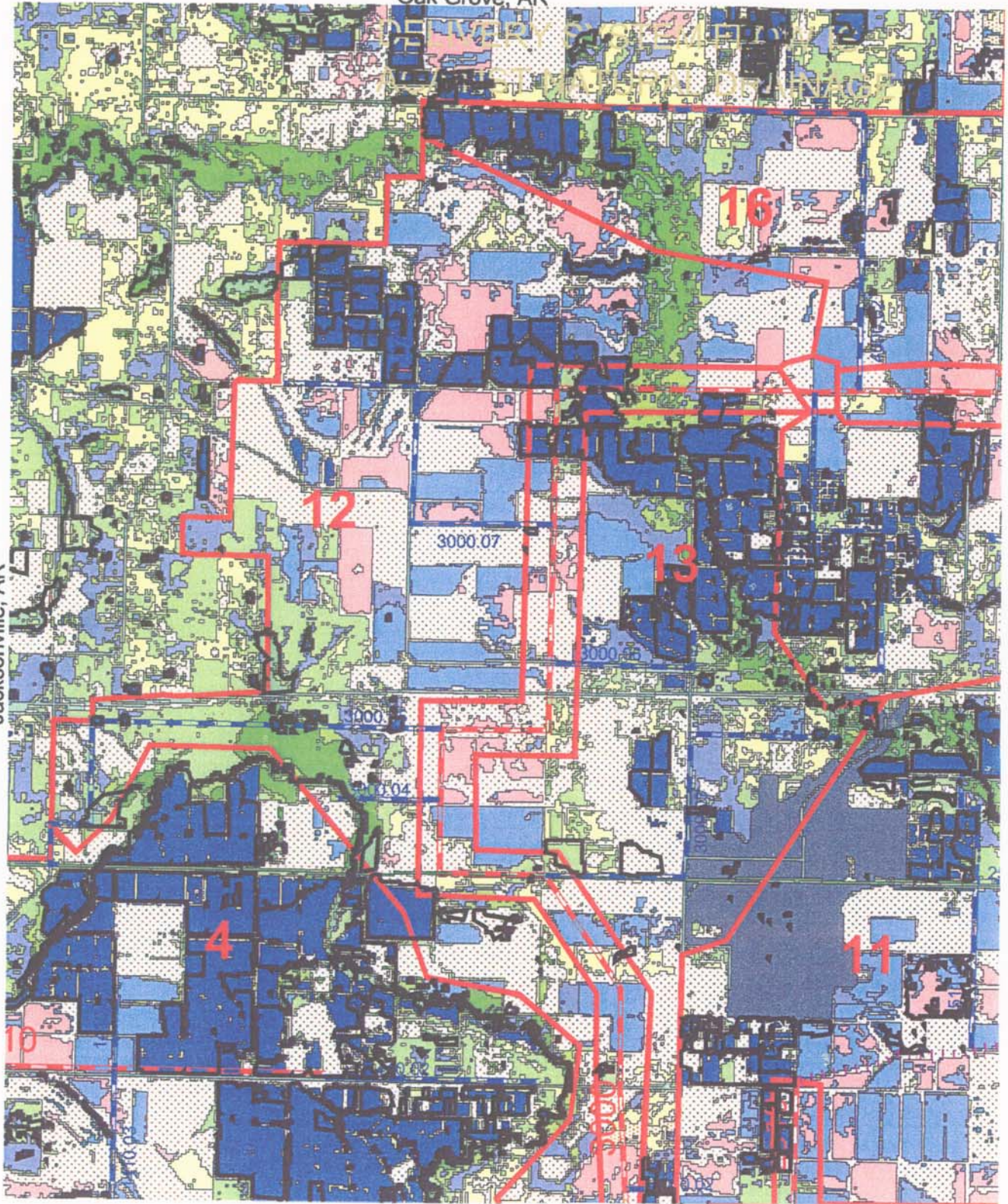
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Oak Grove, AR

Jacksonville, AR

Pocket Prairie, AR



Pettus, AR

Lonoke, AR  
Landuse/Wetlands

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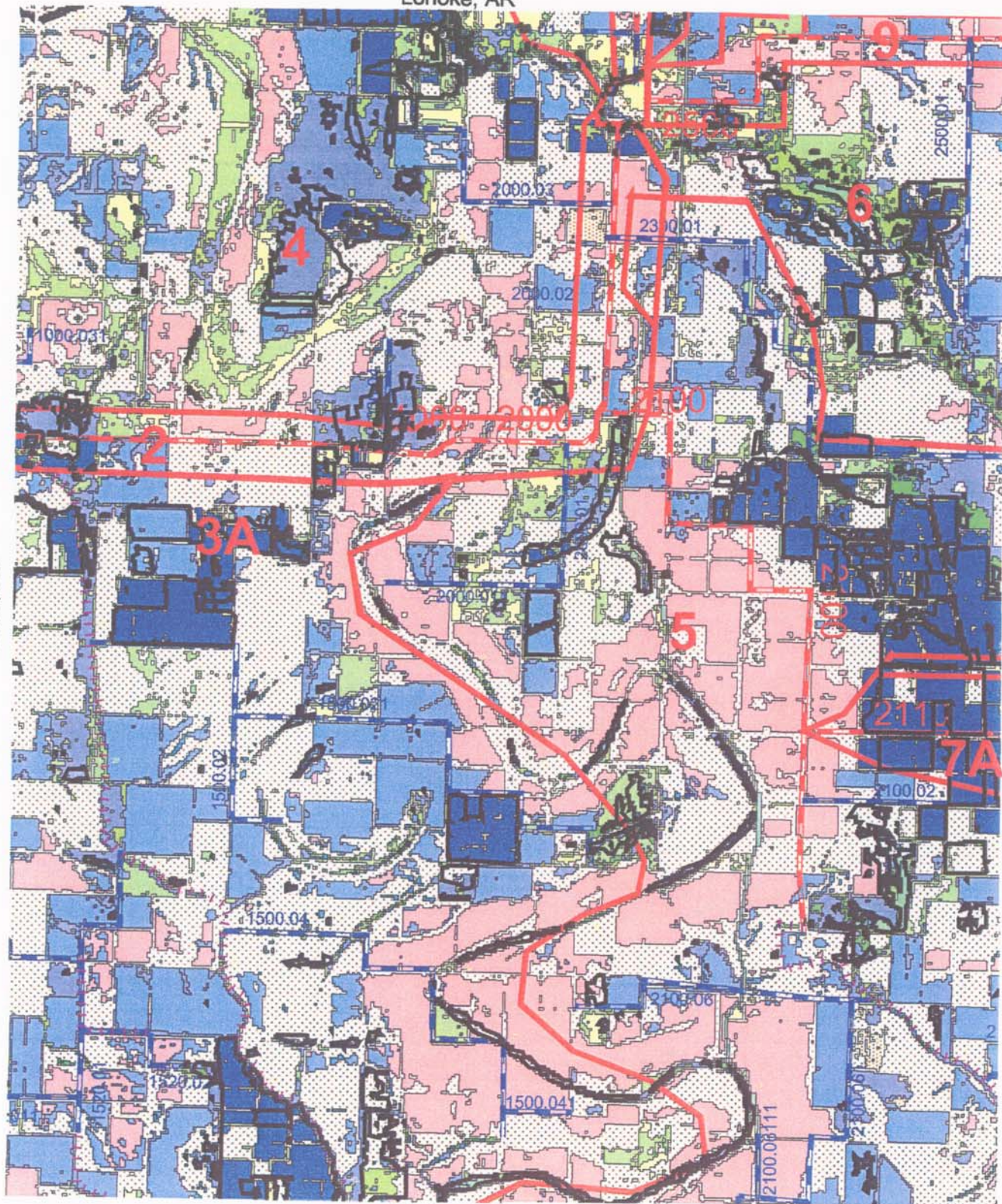




Lonoke, AR

Scott, AR

Culler, AR



England, AR

Pettus, AR  
Landuse/Wetlands

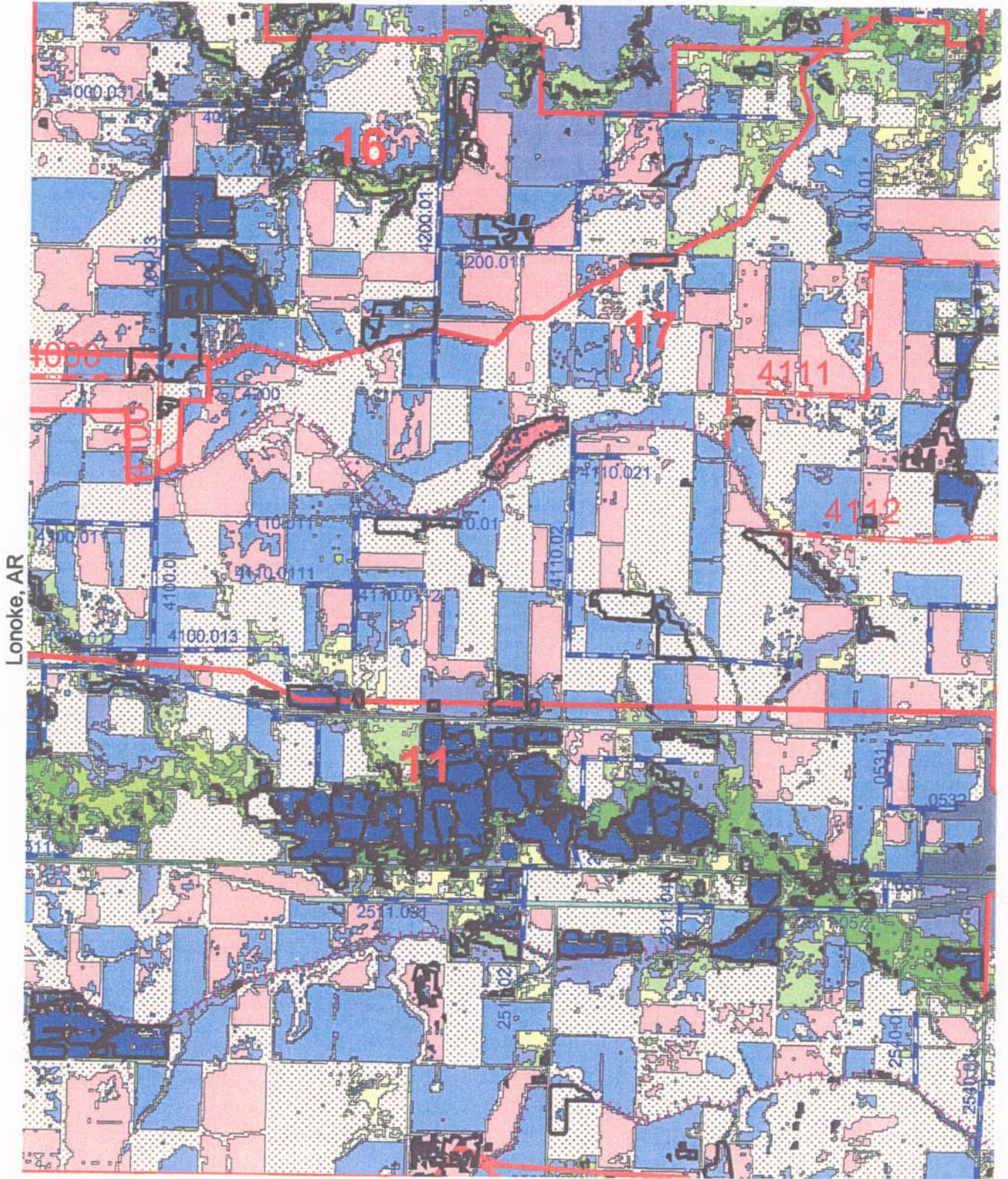
US ARMY CORPS  
OF ENGINEERS  
WATERWAYS DIVISION



SCALE=1:62,500



Wattensaw, AR



Lonoke, AR

Carlisle, AR

Culler, AR



SCALE=1:62,500

Pocket Prairie, AR  
Landuse/Wetlands





Sherrill, AR

White Hall, AR

Althamer, AR

Ladd, AR

Rob Roy, AR  
Landuse/Wetlands



SCALE=1:62,500

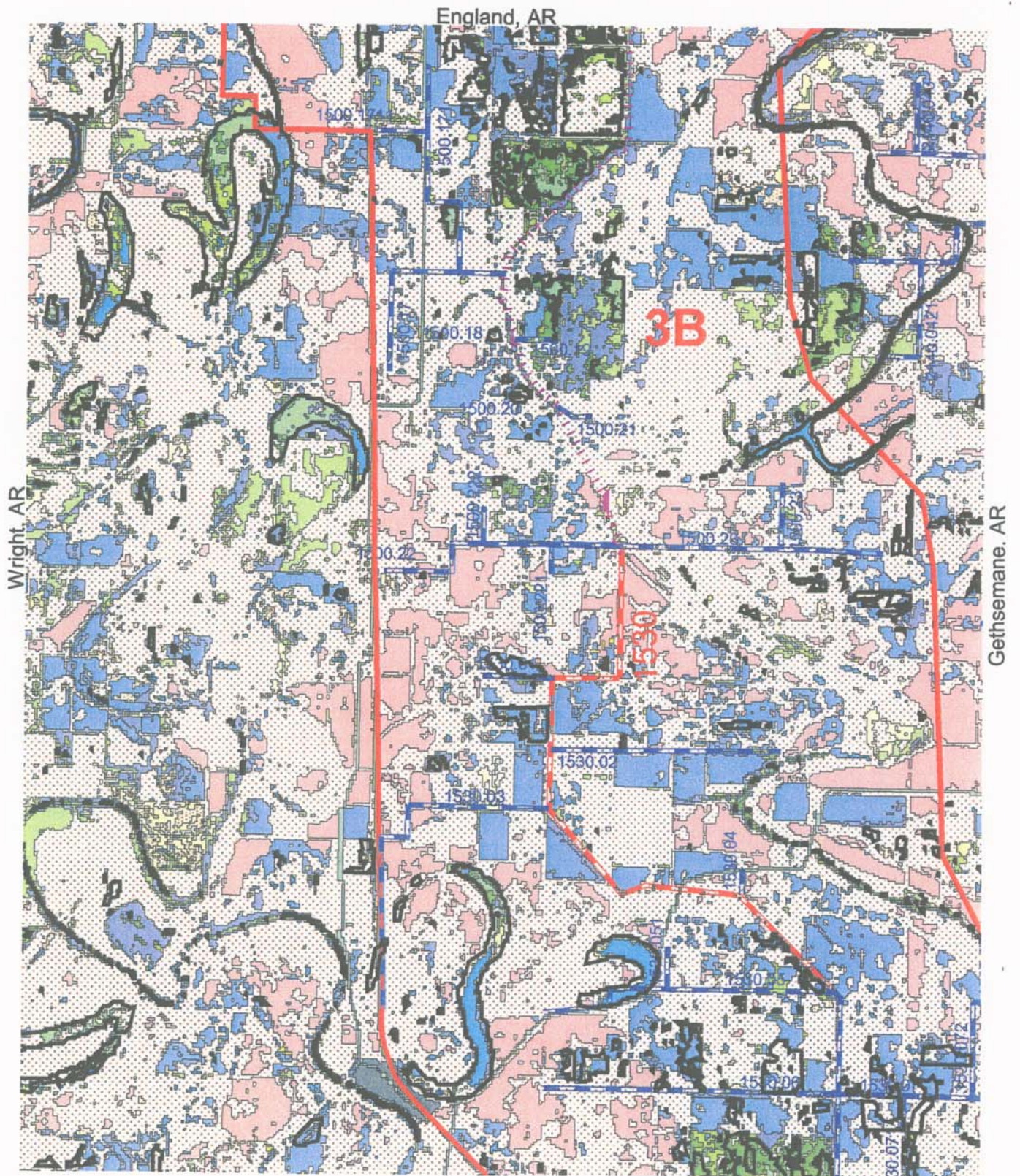


Pettus, AR

SCALE=1:62,500







Wright, AR

England, AR

Gethsemane, AR

3B

US ARMY CORPS  
OF ENGINEERS  
NORTHWEST DISTRICT



Sherrill, AR  
Landuse/Wetlands

SCALE=1:62,500



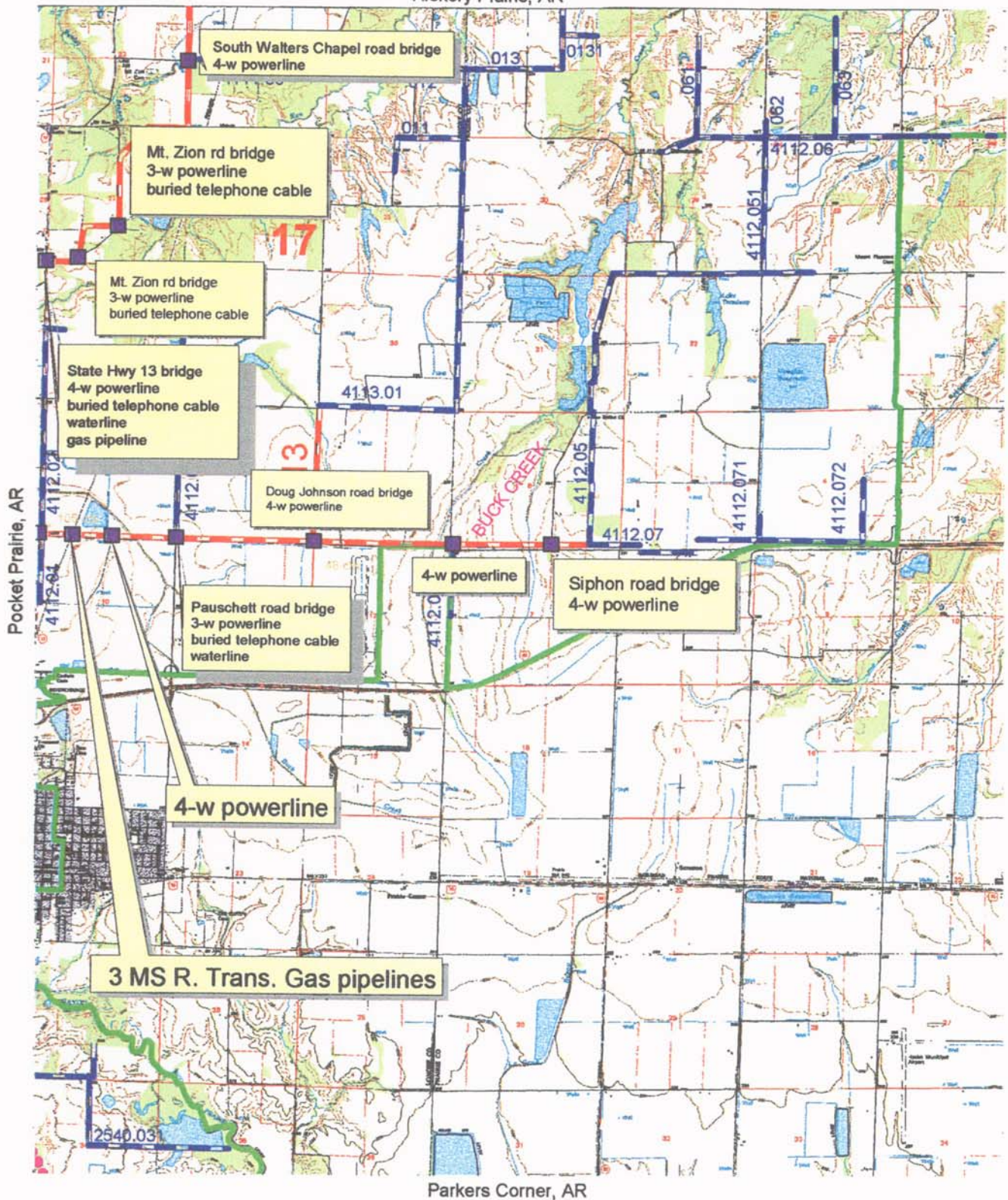




# **RELOCATIONS**



# Hickory Plains, AR



US Army Corps  
of Engineers  
Memphis District



Bayou Metro Improvement Project Area

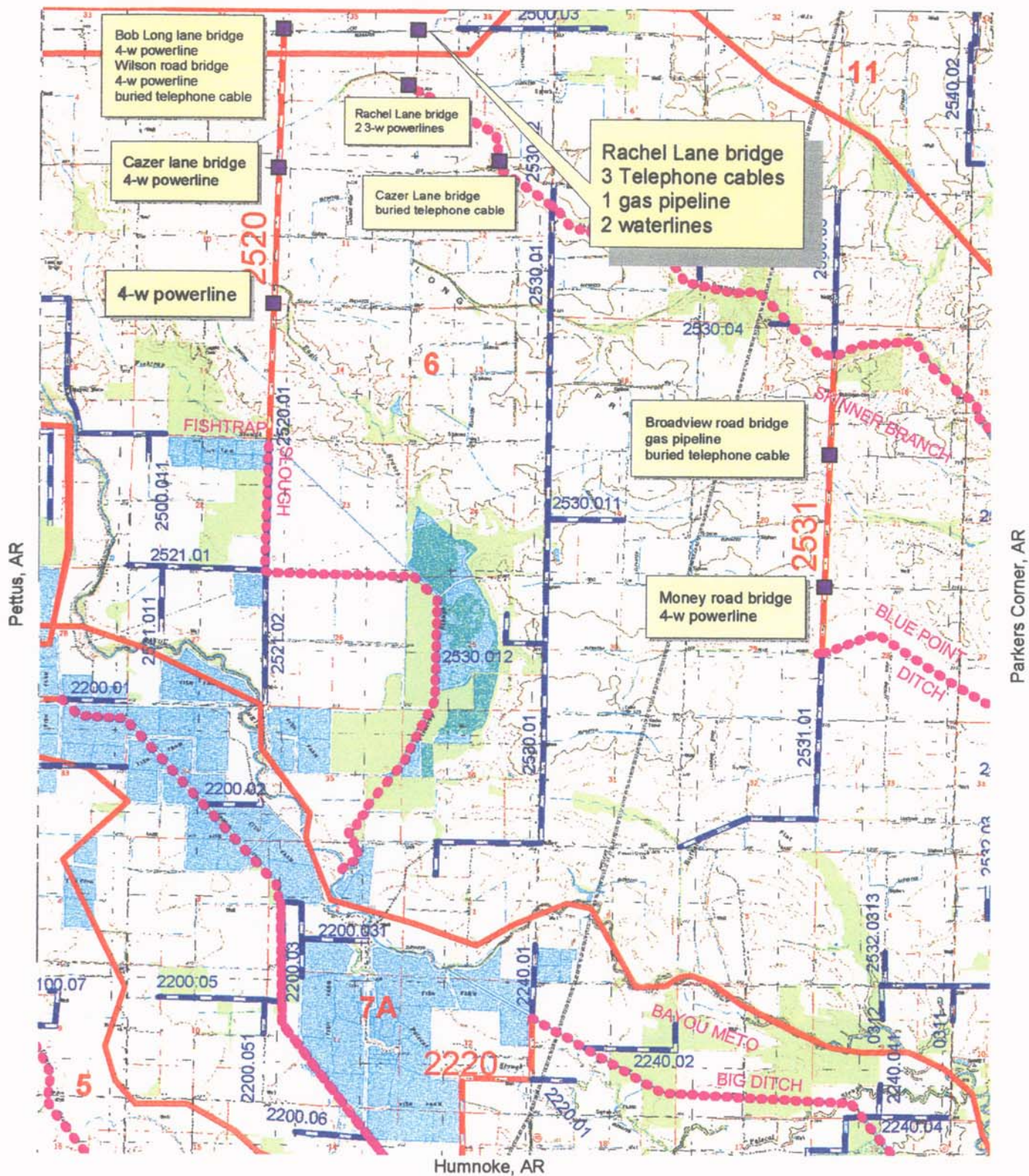


SCALE=1:62,500

Carlisle, AR  
Relocations



Pocket Prairie, AR



US Army Corps  
of Engineers  
Memphis District

- Relocations
- Ditches
- Pipelines
- Canals
- Bayou Meto Improvement Project Area
- Construction Reaches



SCALE=1:62,500

Culler, AR  
Relocations



Walker, AR

Wattensaw, AR

Des Arc West, AR

Walters Chapel road bridge  
4-w powerline  
buried telephone cable

3 ARKLA gas pipelines

Carlisle, AR

Hickory Plains, AR  
Relocations



US Army Corps  
of Engineers  
Memphis District

- Relocations
- Ditches
- Pipelines
- Canals
- Bayou Meto Improvement Project Area
- Construction Reaches



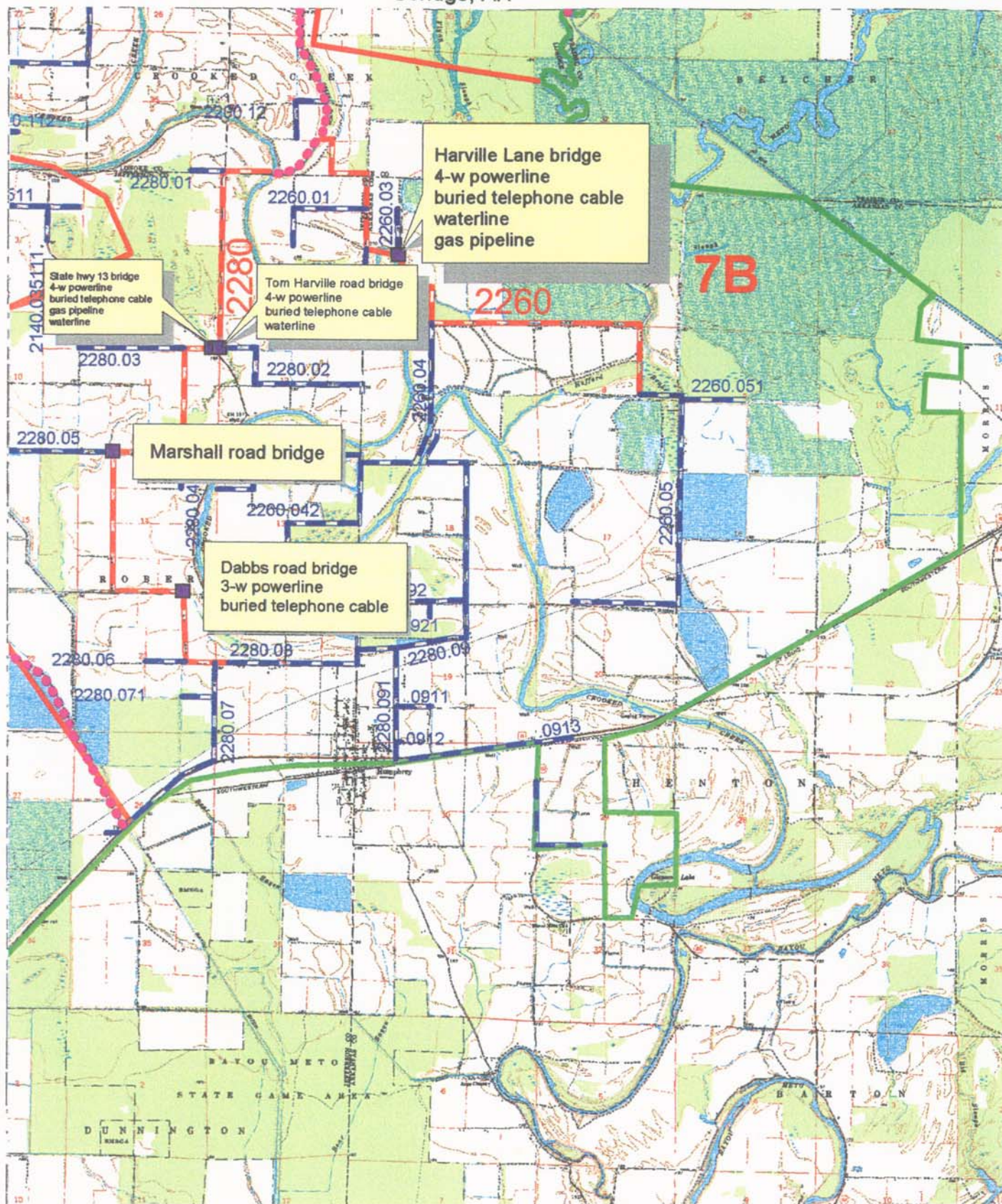
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Geridge, AR

Gethsemane, AR

Stuttgart South, AR



Humphrey SW, AR

Humphrey NW, AR  
Relocations



US Army Corps  
of Engineers  
Memphis District

- Relocations
- Ditches
- Pipelines
- Canals
- Bayou Meto Improvement Project Area
- Construction Reaches

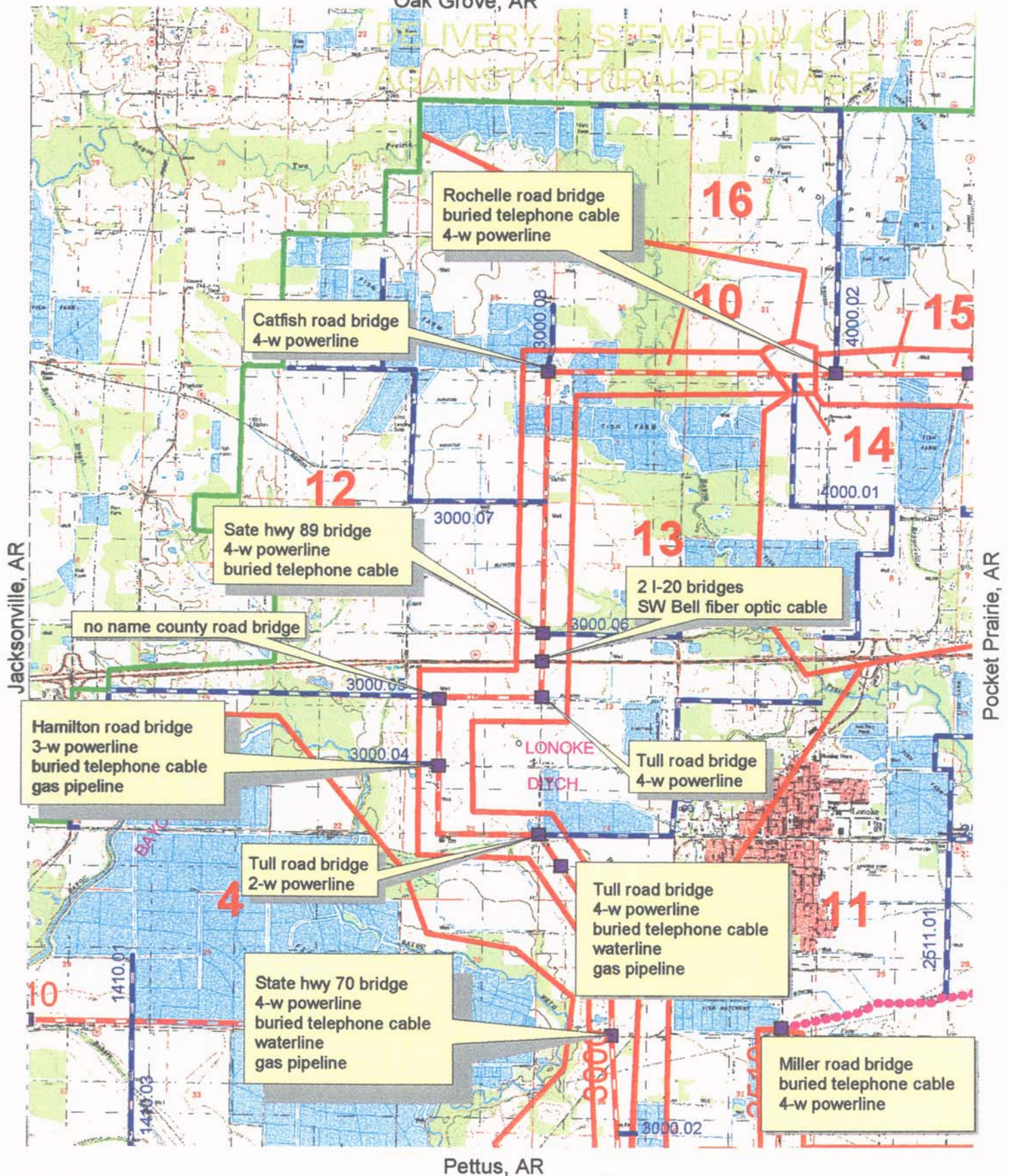


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Oak Grove, AR

DELIVERY SYSTEM FLOWS  
AGAINST NATURAL DRAINAGE



Jacksonville, AR

Pocket Prairie, AR

Pettus, AR

Lonoke, AR  
Relocations



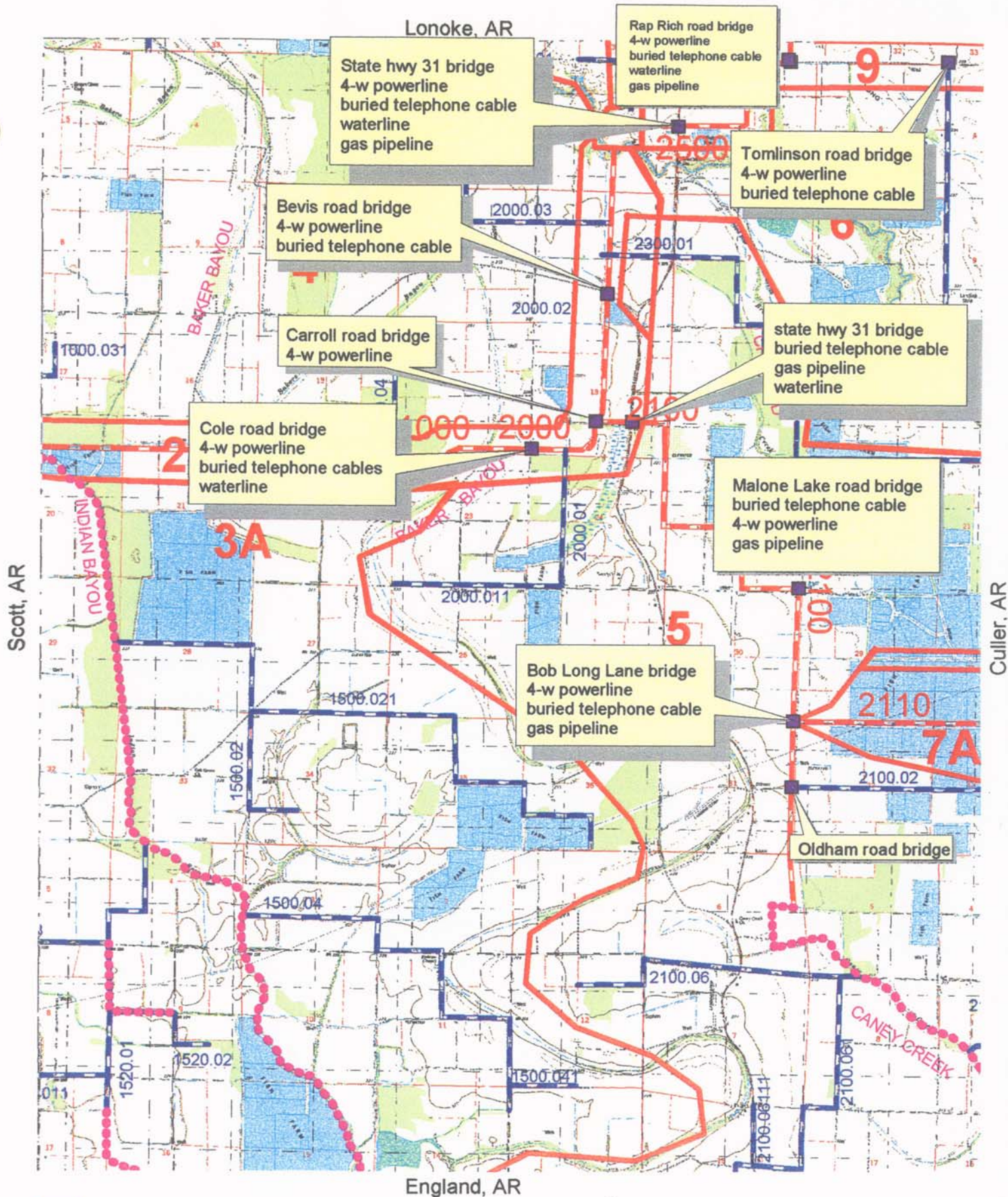
US Army Corps  
of Engineers  
Memphis District

- Relocations
- Ditches
- Pipelines
- Canals
- Bayou Meto Improvement Project Area
- Construction Reaches



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US Army Corps  
of Engineers  
Memphis District

- Relocations
- Ditches
- Pipelines
- Canals
- Bayou Melo Improvement Project Area
- Construction Reaches

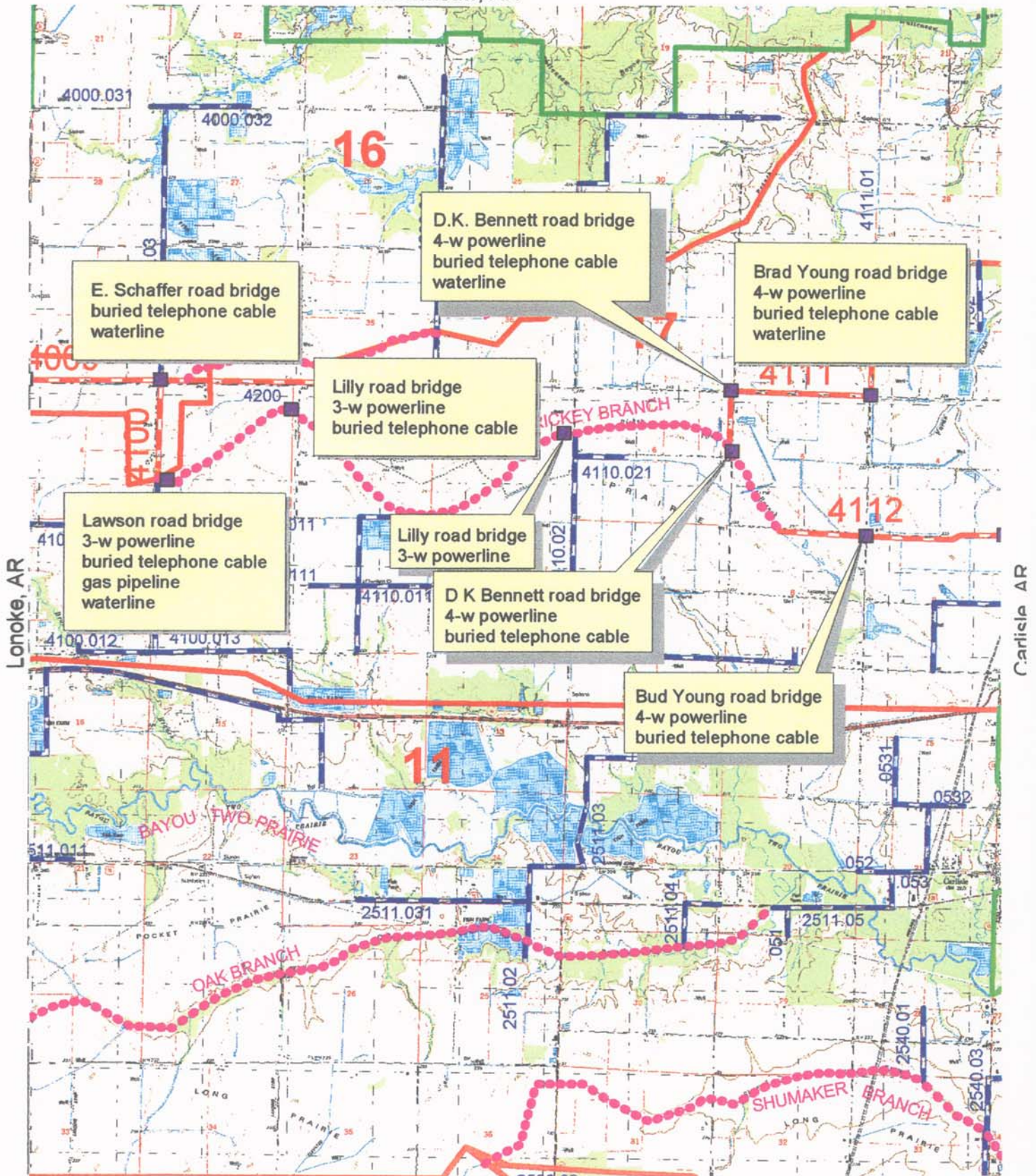


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Pettus, AR  
Relocations



# Wattensaw, AR



US Army Corps  
of Engineers  
Memphis District

- Relocations
- Ditches
- Pipelines
- Canals
- Bayou Metro Improvement Project Area
- Construction Reaches

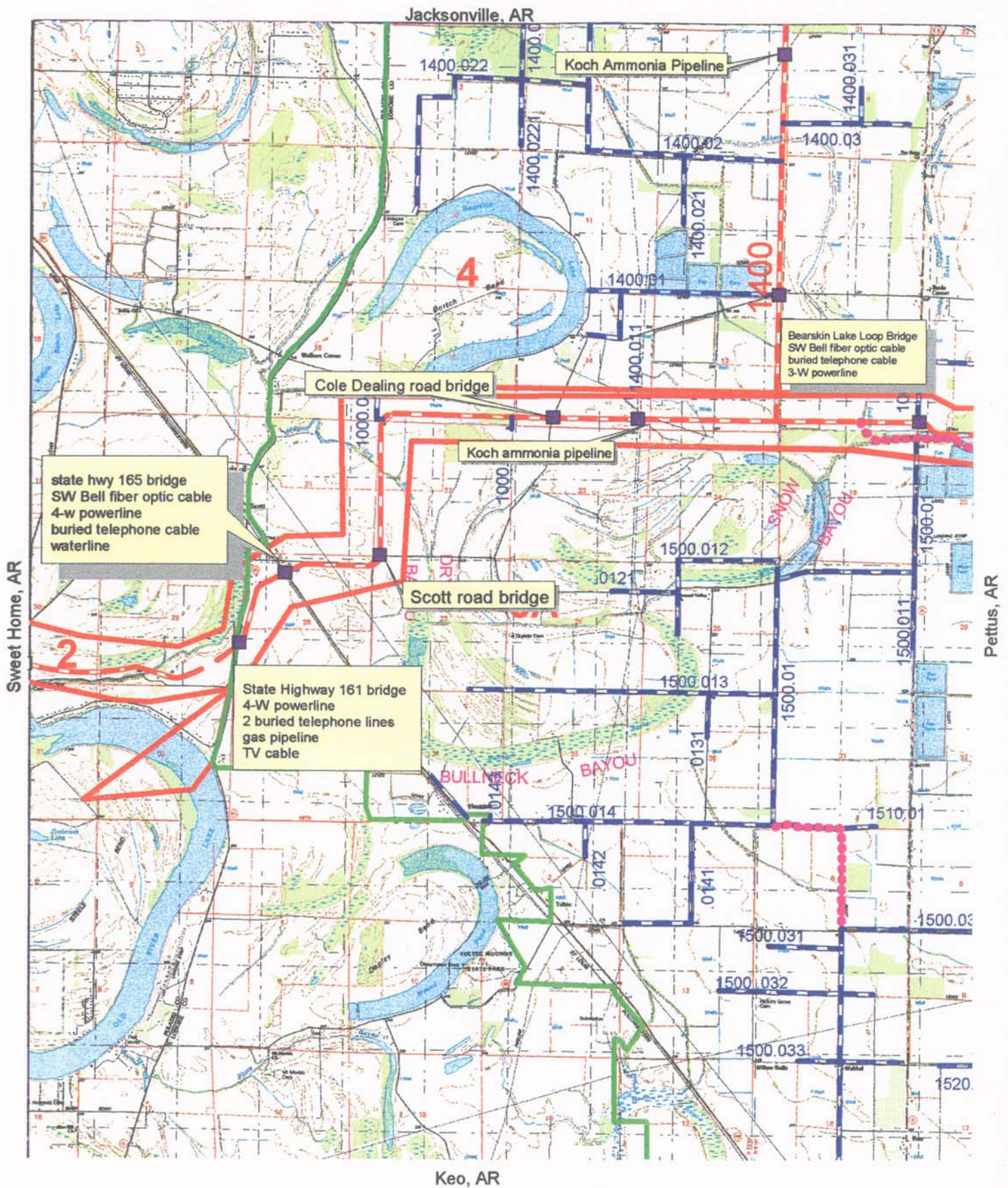
Culler, AR



SCALE=1:62,500

Pocket Prairie, AR  
Relocations





US Army Corps  
of Engineers  
Memphis District

Relocations  
Ditches  
Pipelines  
Canals  
Bayou Metro Improvement Project Area  
Construction Reaches

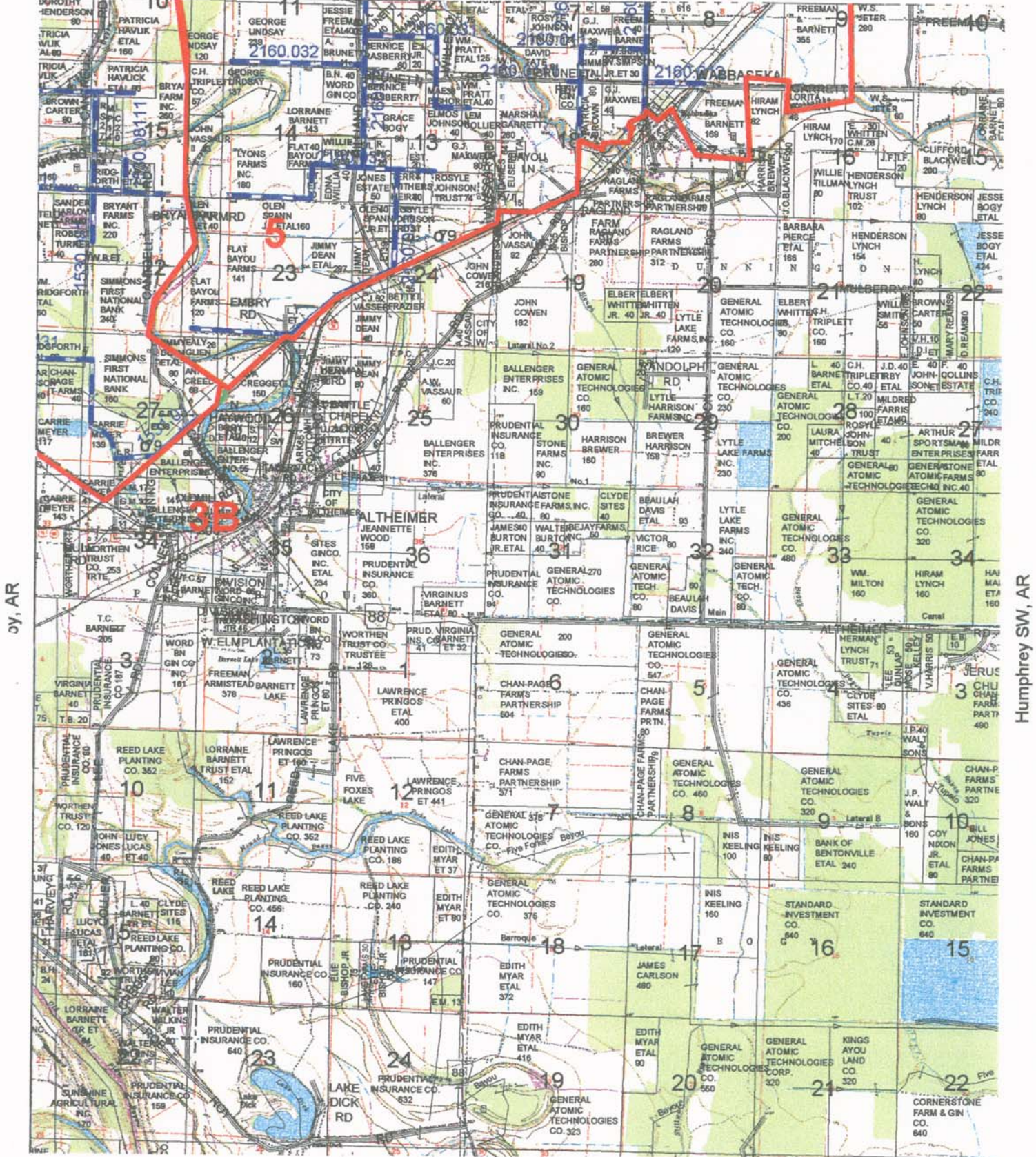
Scott, AR  
Relocations



# **PROPERTY OWNERSHIP**



# Gethsemane, AR



# Moscow, AR



US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Mito Improvement Project Area



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Alzheimer, AR  
Property Ownership

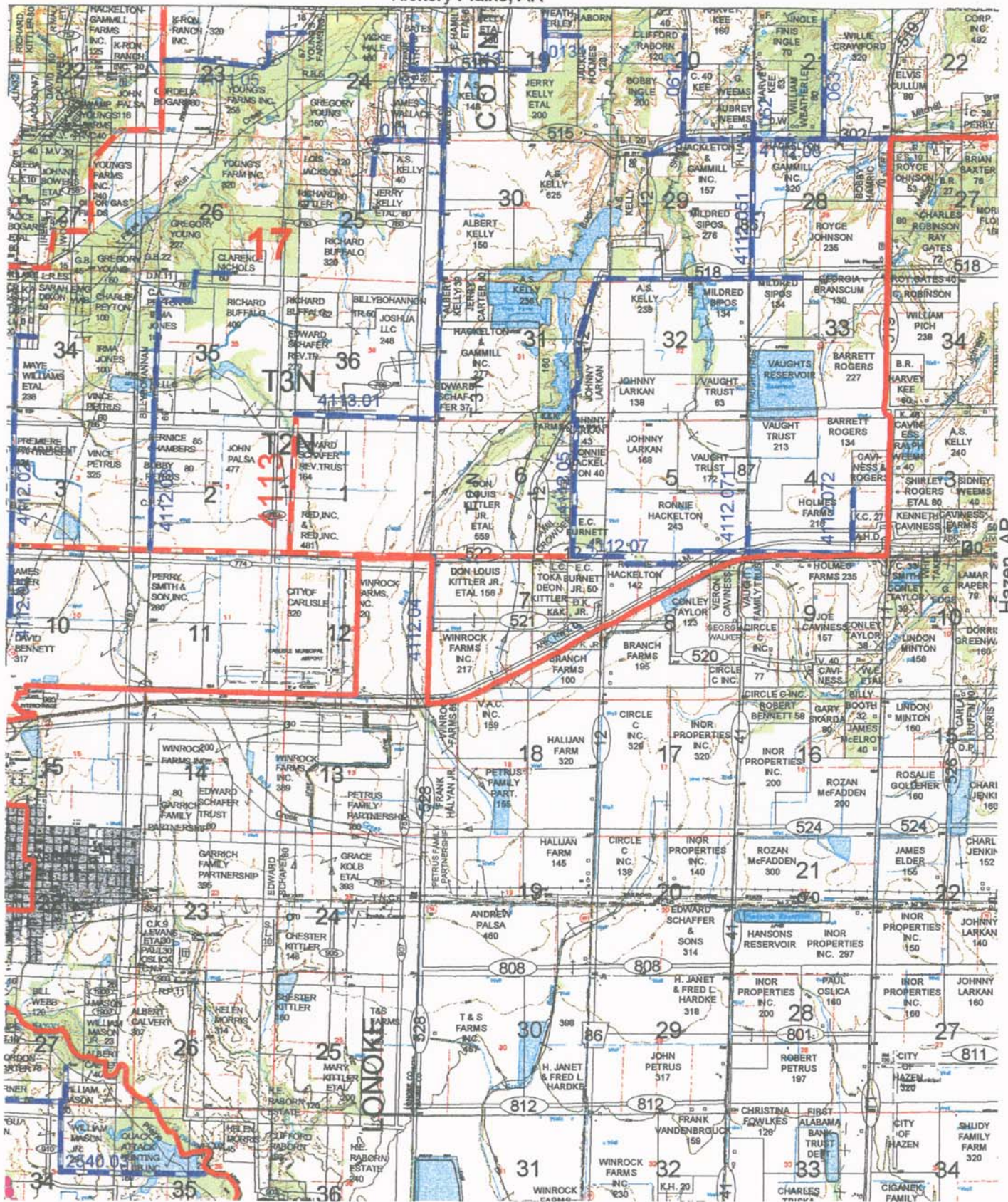
Humphrey SW, AR



# Hickory Plains, AR

Pocket Prairie, AR

Hazen, AR



Parkers Corner, AR



US Army Corps  
of Engineers  
Memphis District



Construction Reaches

Pipelines

Canals

Ditches

Bayou Metro Improvement Project Area

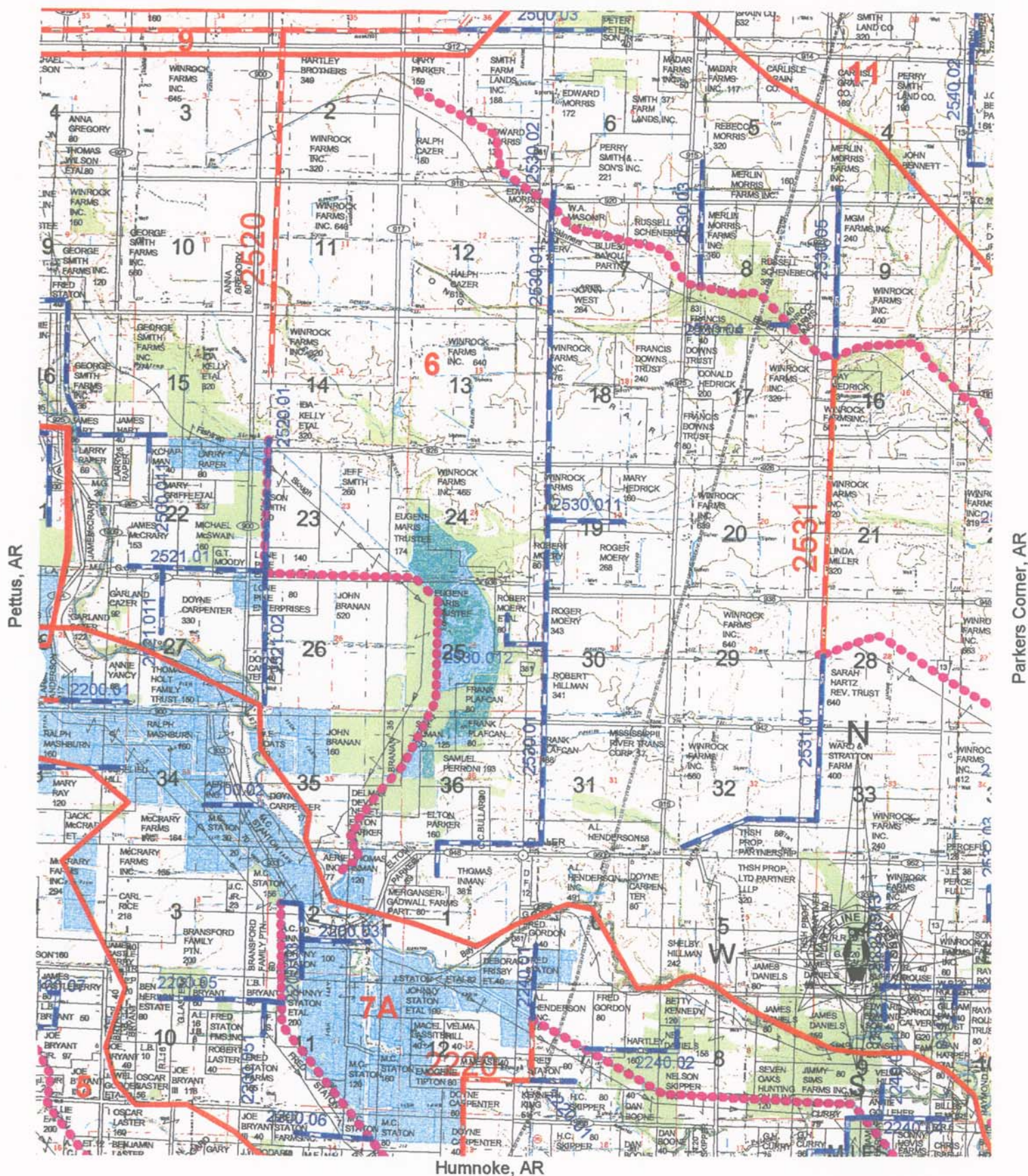


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Carlisle, AR  
Property Ownership



## Pocket Prairie, AR



Pettus, AR

Parkers Corner, AR

Humnoke, AR



**US Army Corps  
of Engineers®**  
Memphis District

- Construction Reaches  
Pipelines  
Canals  
Ditches  
Bayou Meto Improvement Project Area



Culler, AR  
Property Ownership

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Pettus, AR

Keo, AR

Humnoke, AR

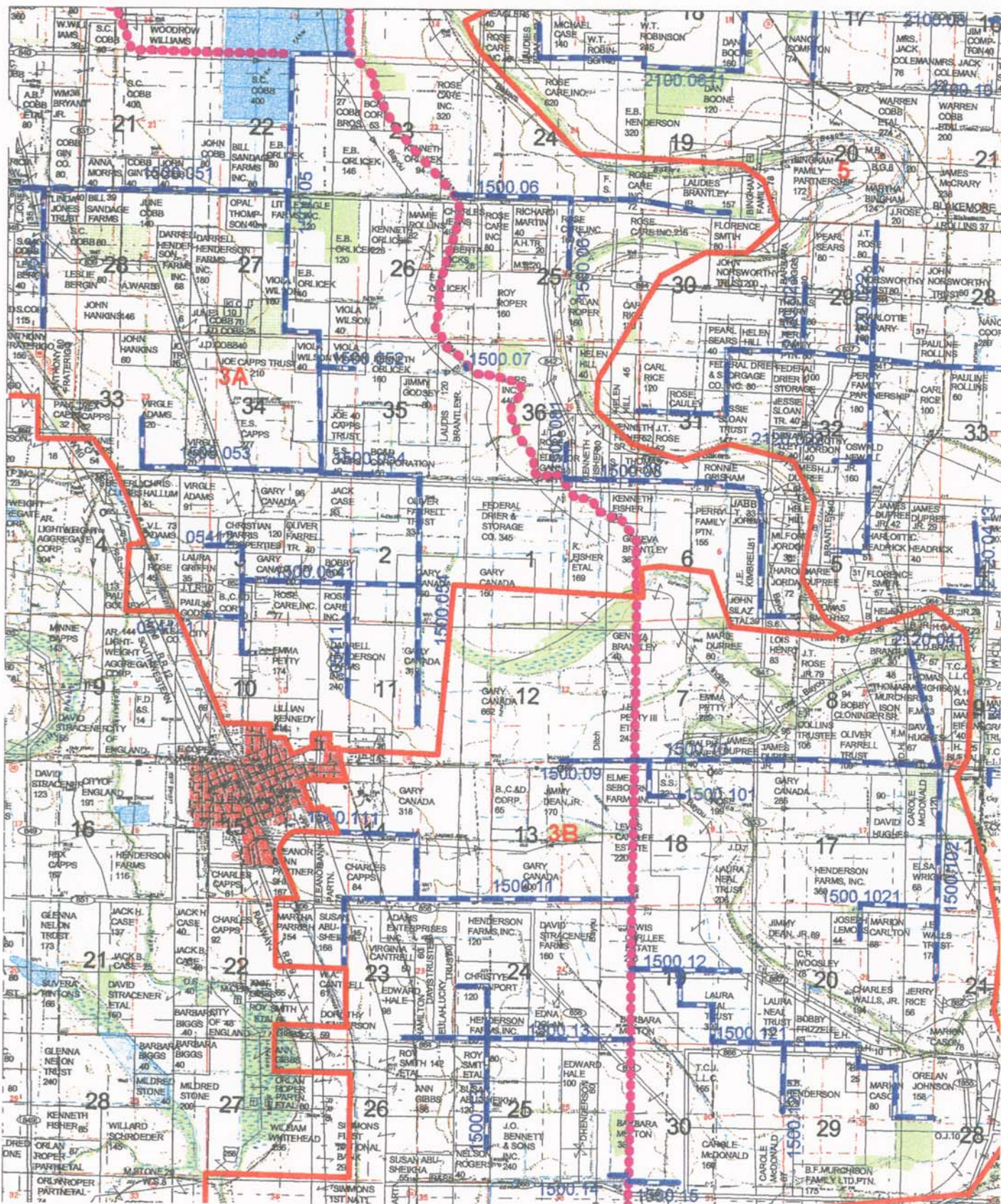
Sherrill, AR

England, AR  
Property Ownership

  
US Army Corps  
of Engineers  
Memphis District

-  Construction Reaches
-  Pipelines
-  Canals
-  Ditches
-  Bayou Meto Improvement Project Area

  
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## Humnoke, AR



Humphrey, AR



## Geridge, AR Property Ownership

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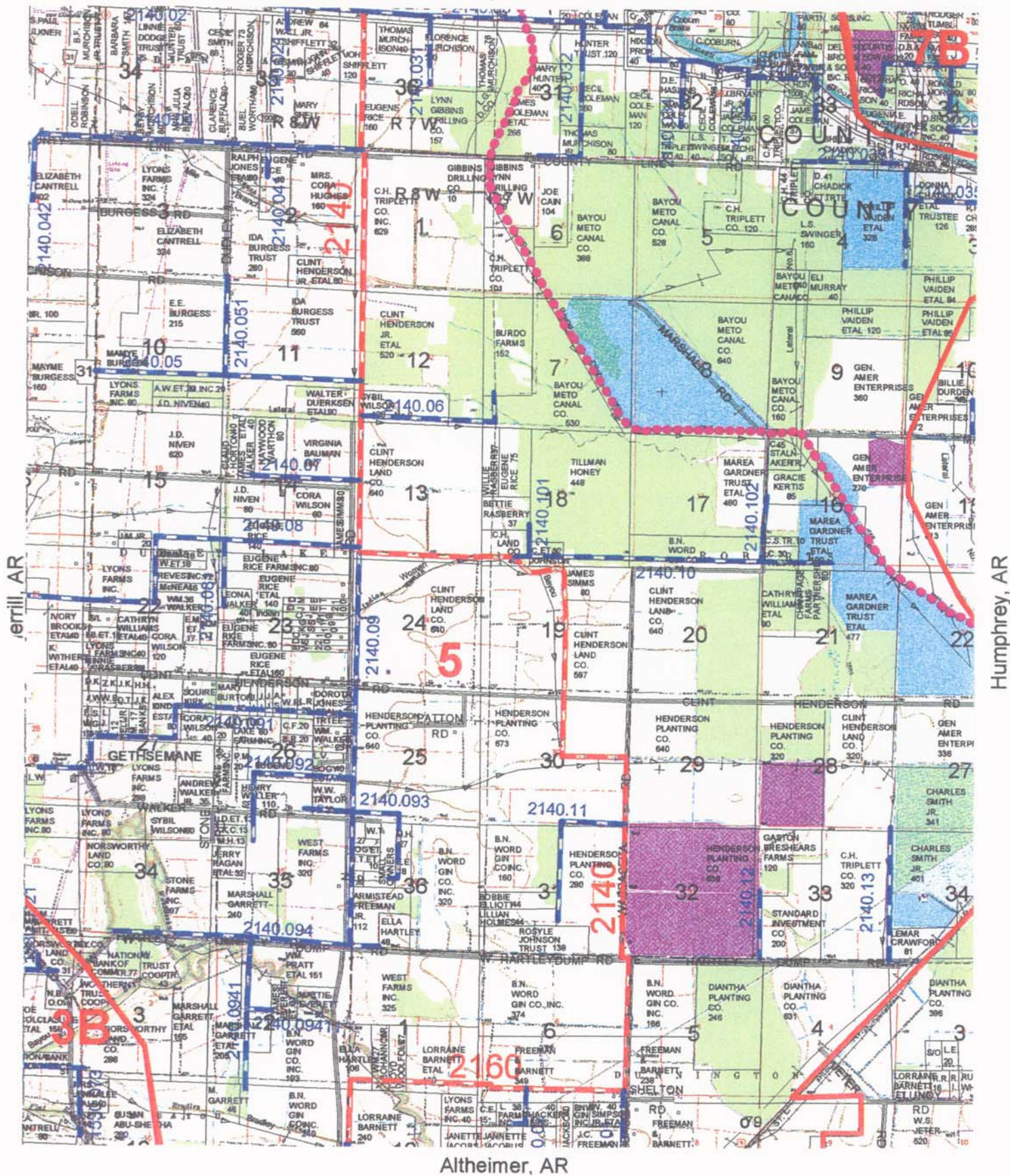


**US Army Corps  
of Engineers**   
Memphis District

- Construction Reaches  
Pipelines  
Canals  
Ditches  
Bayou Meto Improvement Project Area



Humnoke, AR



Altheimer, AR

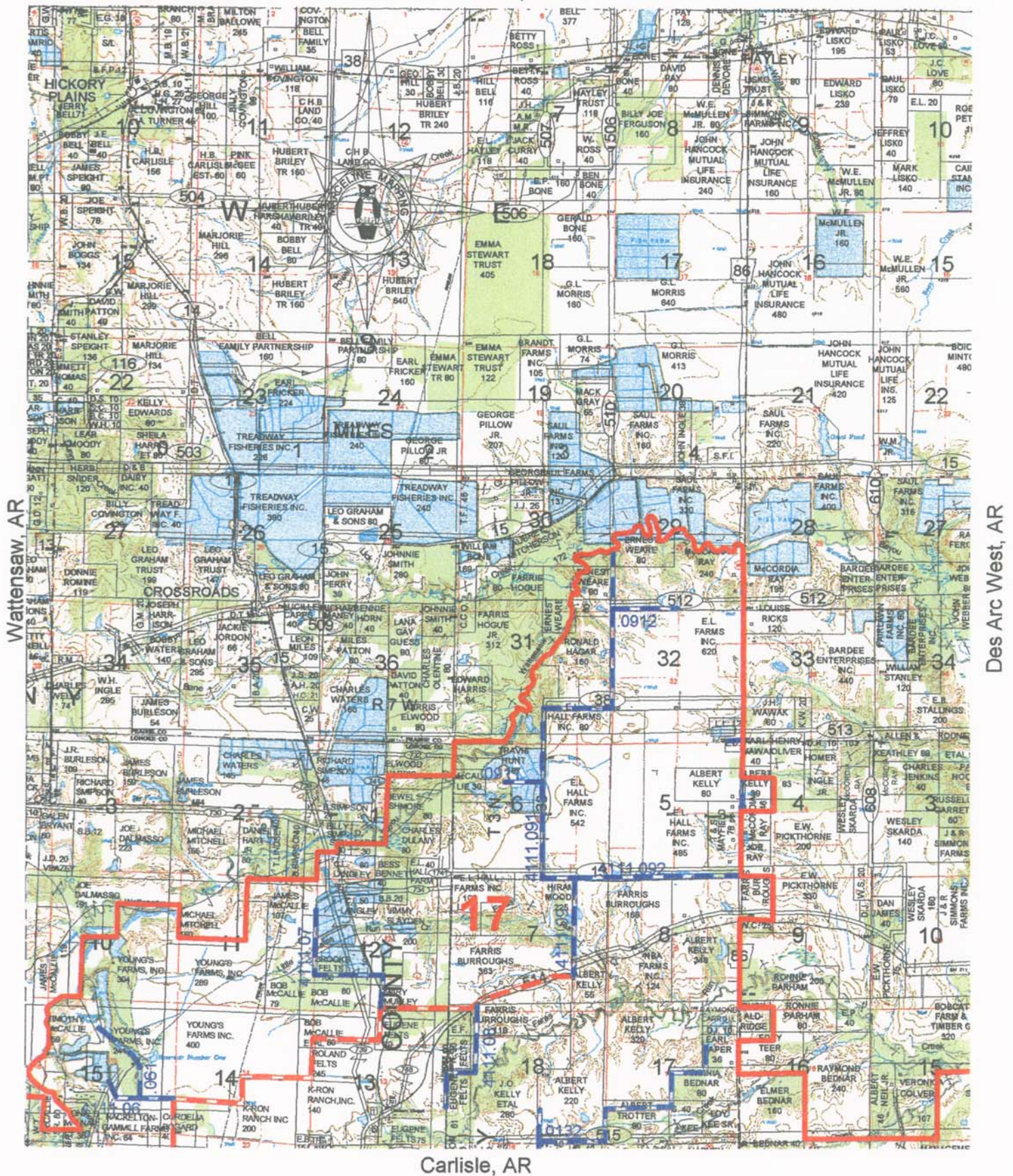
Gethsemane, AR  
Property Ownership

US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Meto Improvement Project Area

SCALE=1:62,500





Carlisle, AR



US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Metro Improvement Project Area



SCALE=1:62,500

Hickory Plains, AR  
Property Ownership



Culler, AR

England, AR

Gerdae, AR

Gethsemane, AR

Humnoke, AR  
Property Ownership



US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Metro Improvement Project Area



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The Publisher has prepared this map from tax maps and other data on public file. From these records I have tried to make a map that is useful and accurate. This map should not be used to prepare legal documents.

MARCELLE MAPPING  
Creating Effective Public Se

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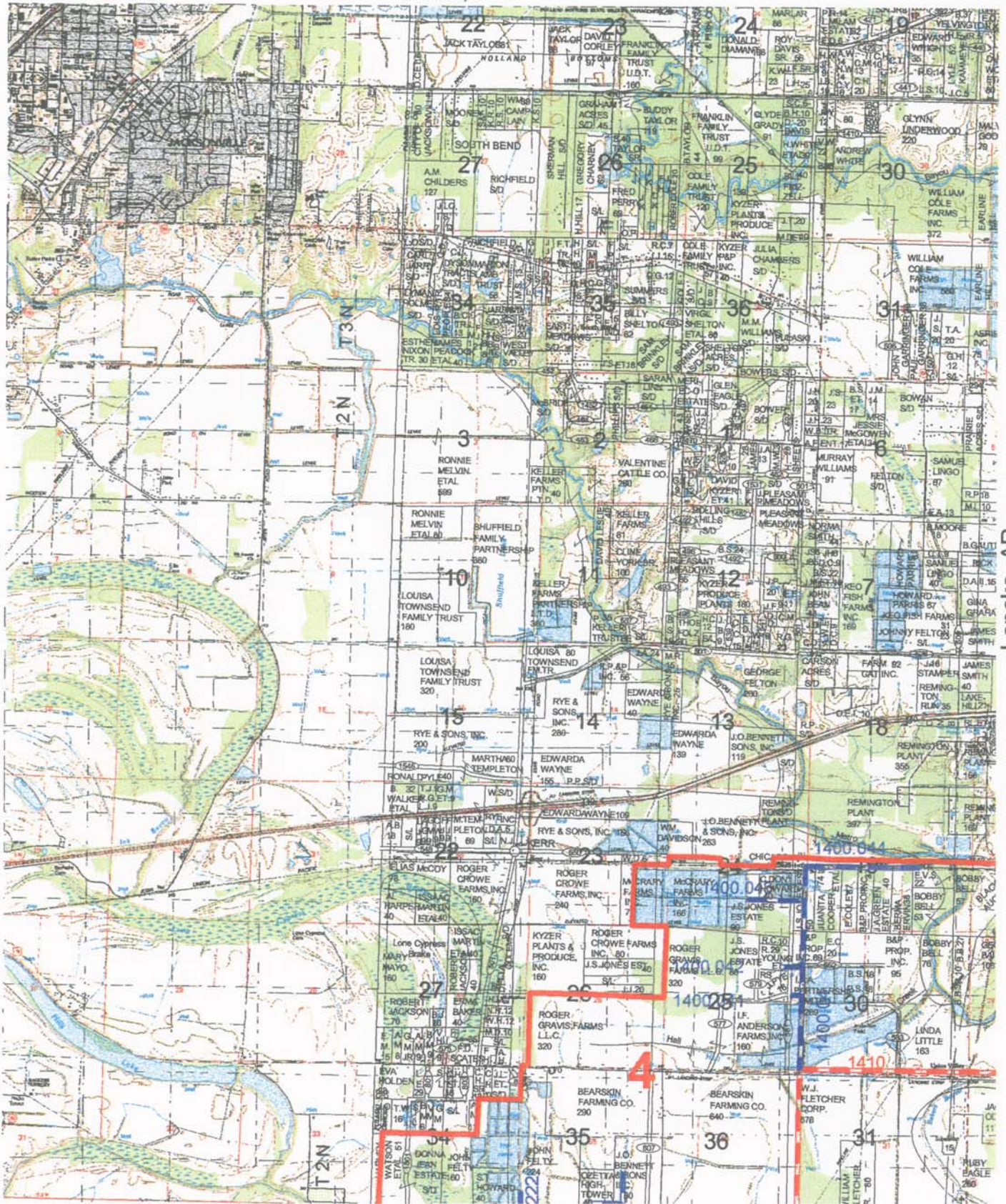




Cabot, AR

McAlmont, AR

Lonoke, AR



Scott, AR

Jacksonville, AR  
Property Ownership



- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Meto Improvement Project Area



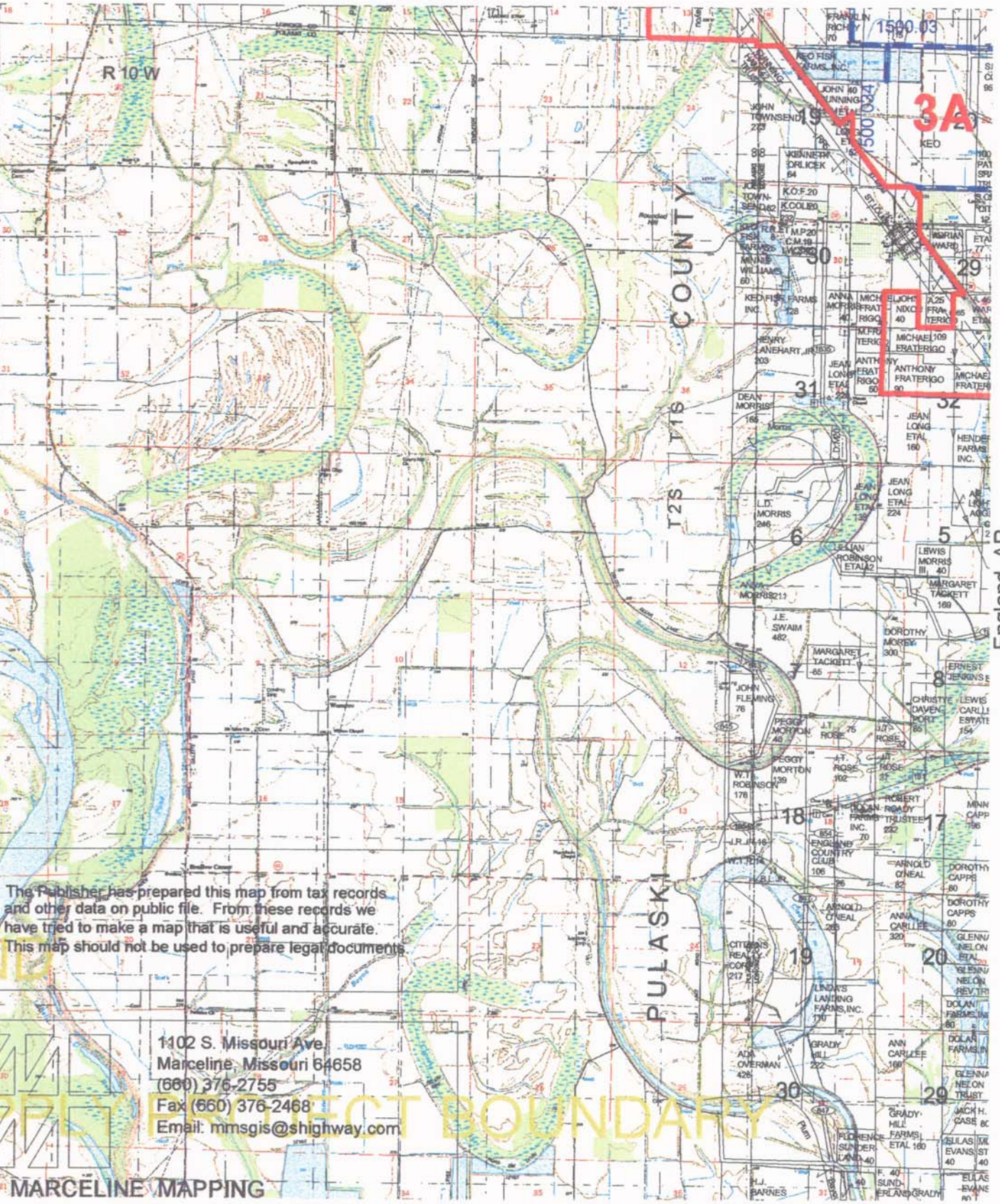
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Scott, AR

Woodson, AR

England, AR



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Marceline, Missouri 64658  
(660) 376-2755  
Fax (660) 376-2468  
Email: mmsgis@shighway.com

MARCELINE MAPPING

Wright, AR

Keo, AR  
Property Ownership



US Army Corps  
of Engineers  
Memphis District

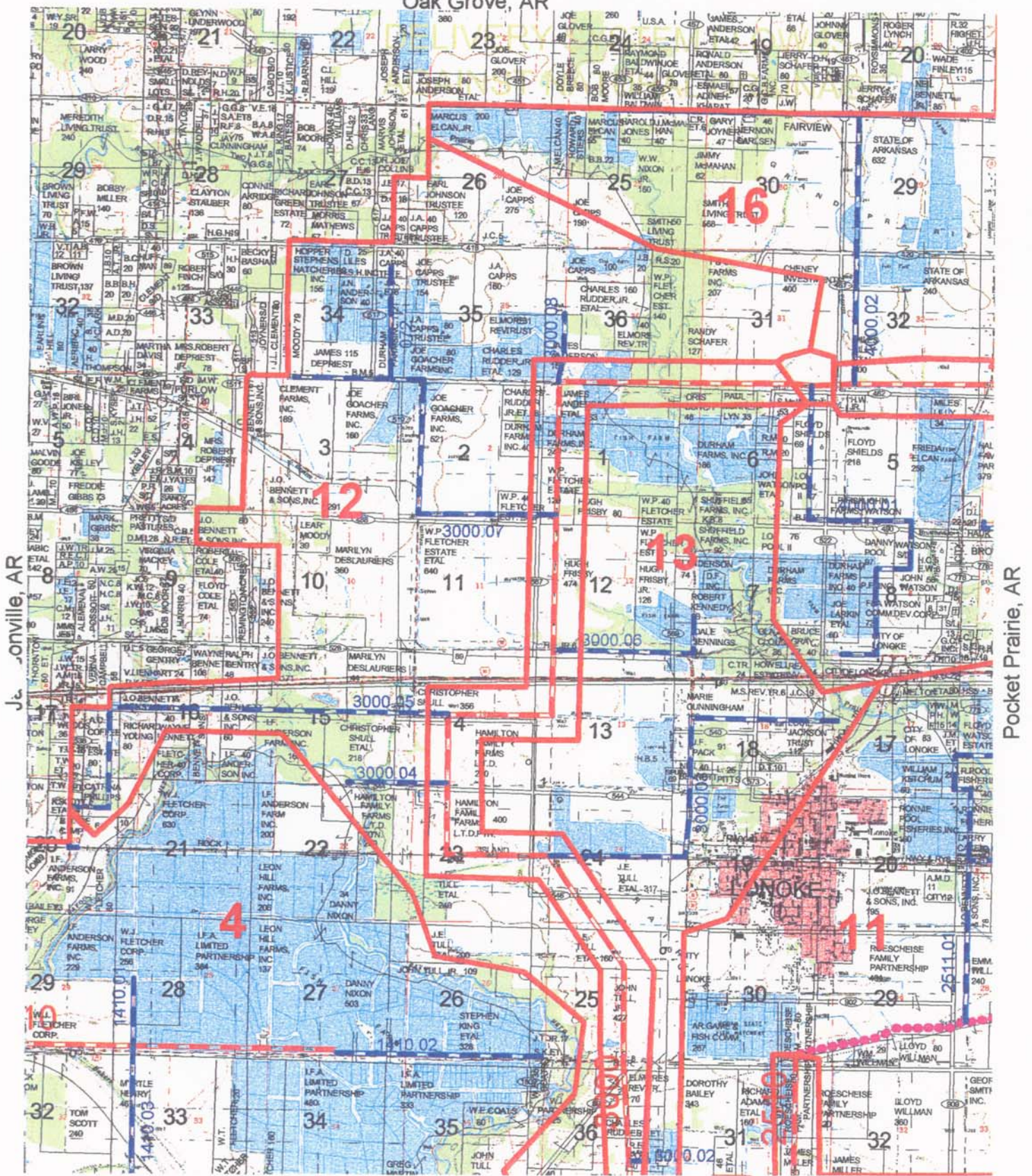
- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Metro Improvement Project Area



SCALE=1:62,500



Oak Grove, AR



Pettus, AR



US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Meto Improvement Project Area

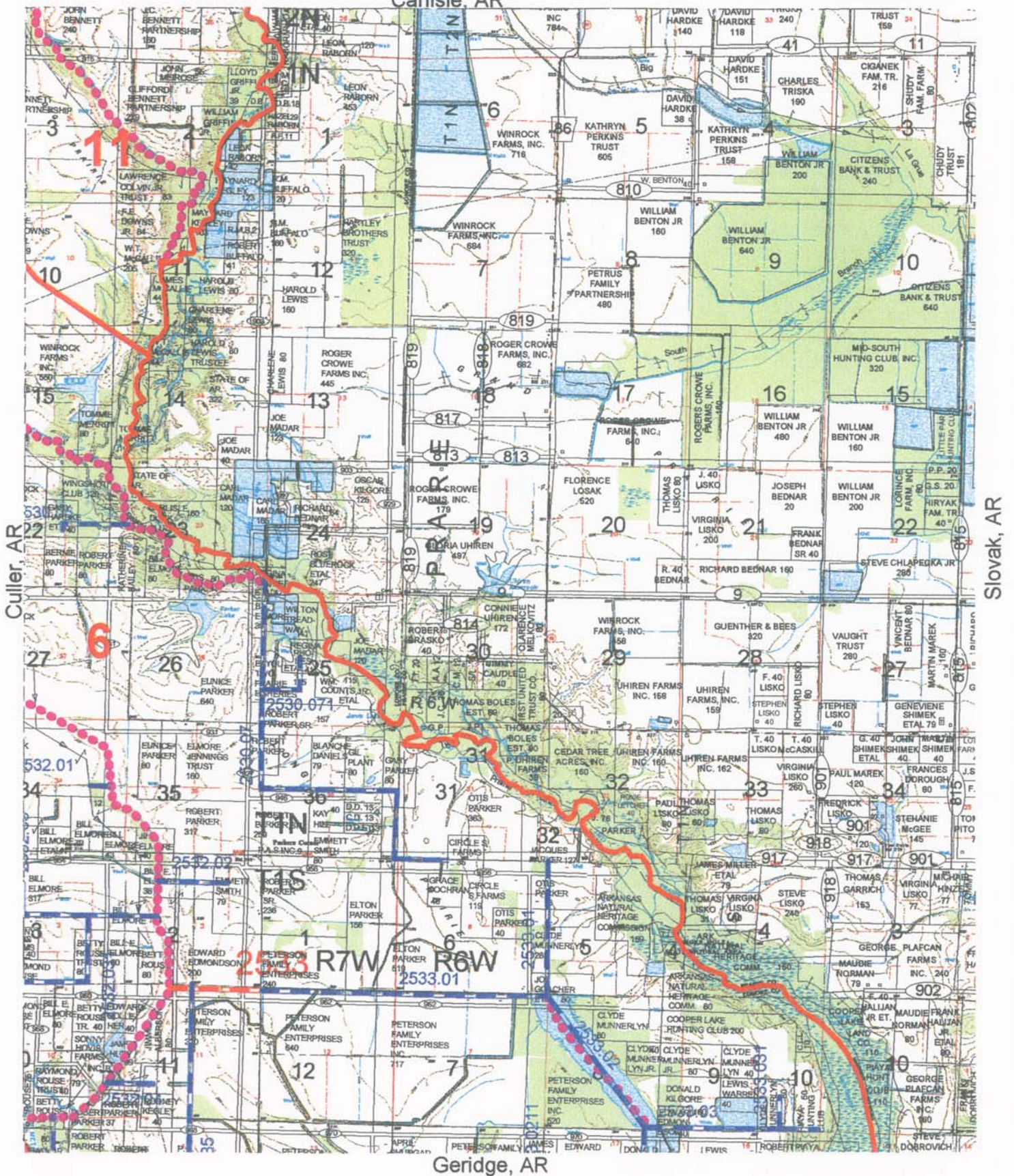


SCALE=1:62,500

Lonoke, AR  
Property Ownership



Carlisle, AR



US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Meto Improvement Project Area



SCALE=1:62,500

Parkers Corner, AR  
Property Ownership



Lonoke, AR

Scott, AR

Culler, AR

England, AR

Pettus, AR  
Property Ownership

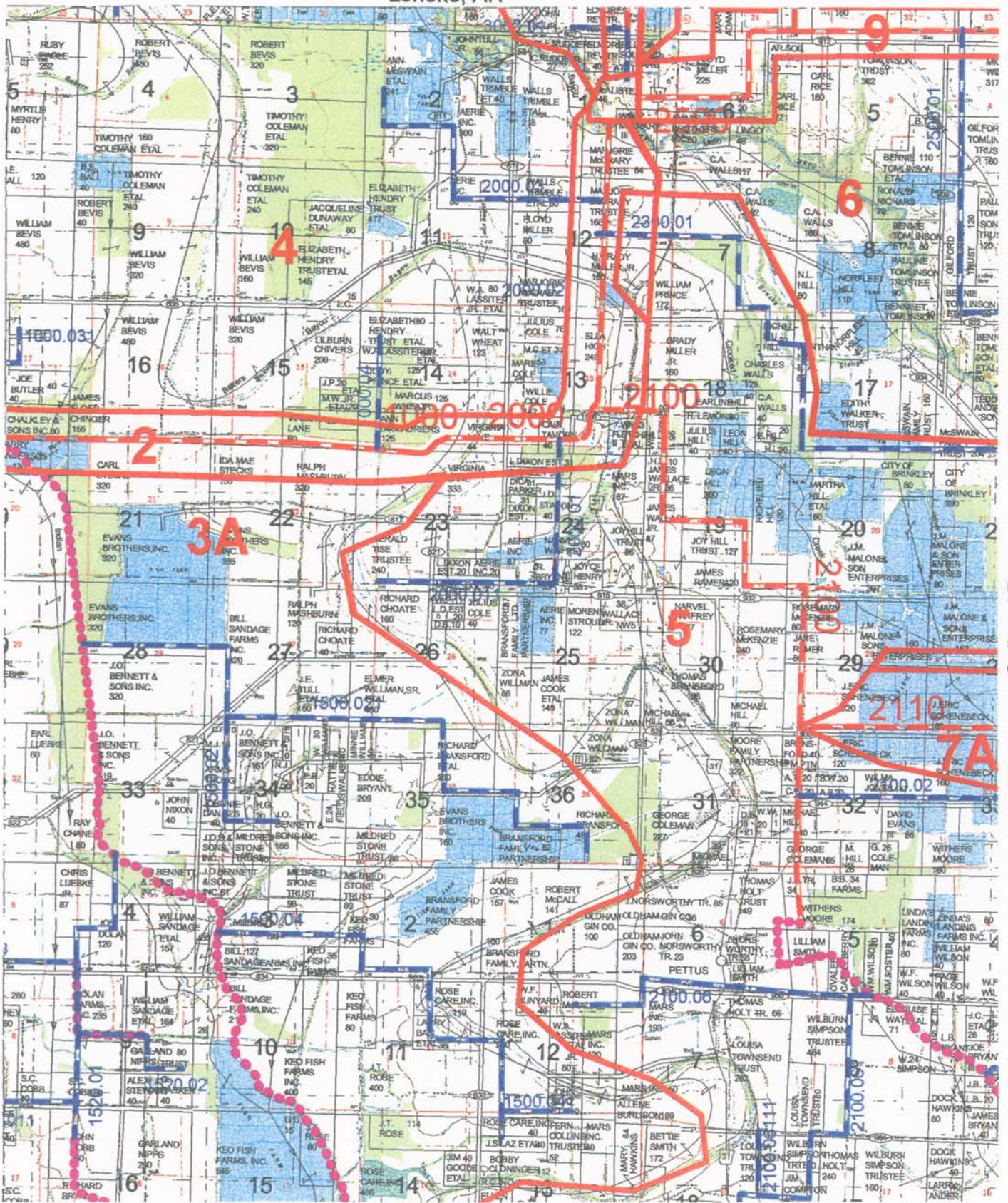


US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Meto Improvement Project Area

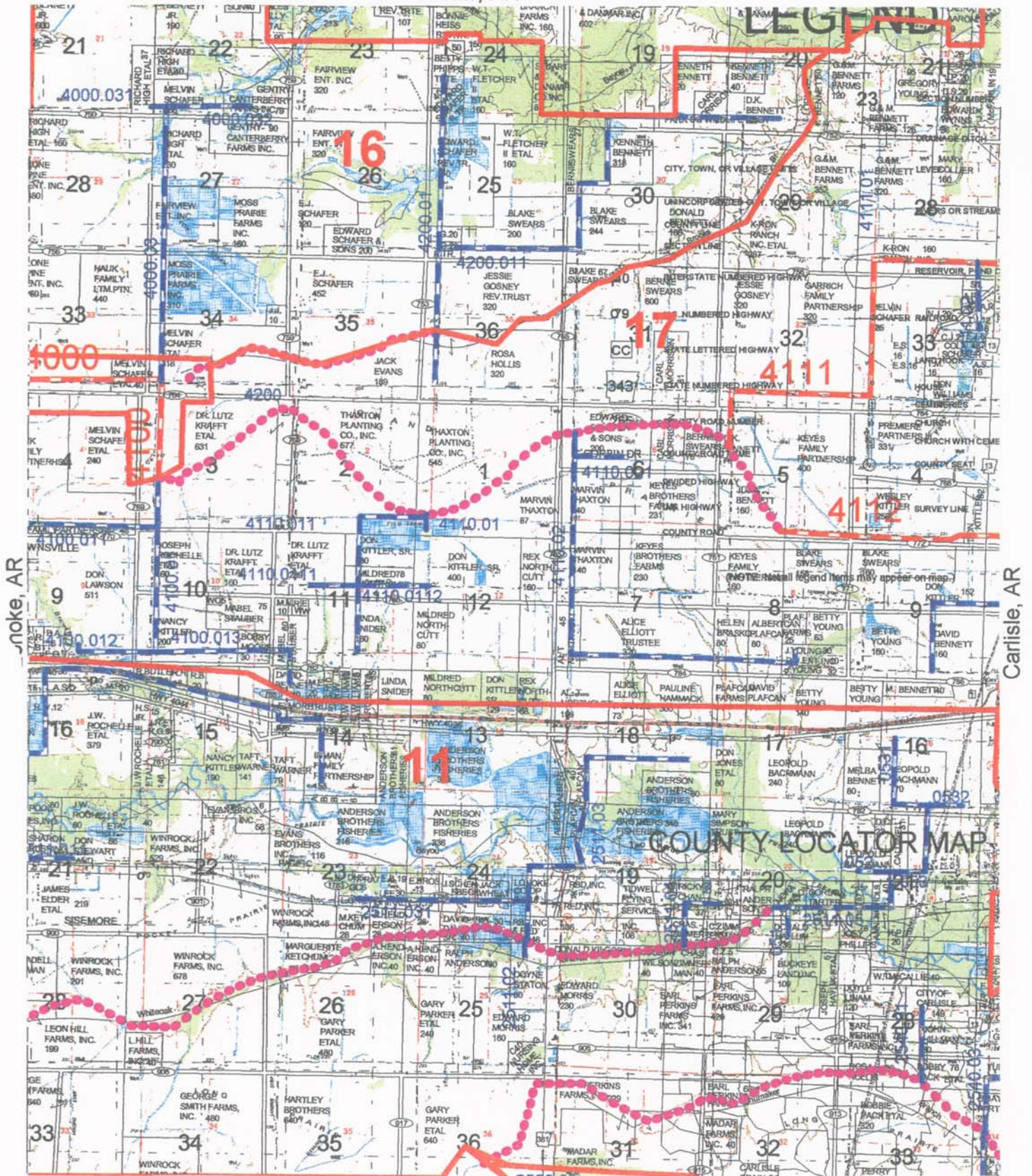


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# Wattensaw, AR



**US Army Corps of Engineers**  
Memphis District

Construction Reaches  
Pipelines  
Canals  
Ditches  
Bayou Meto Improvement Project Area

Culler, AR

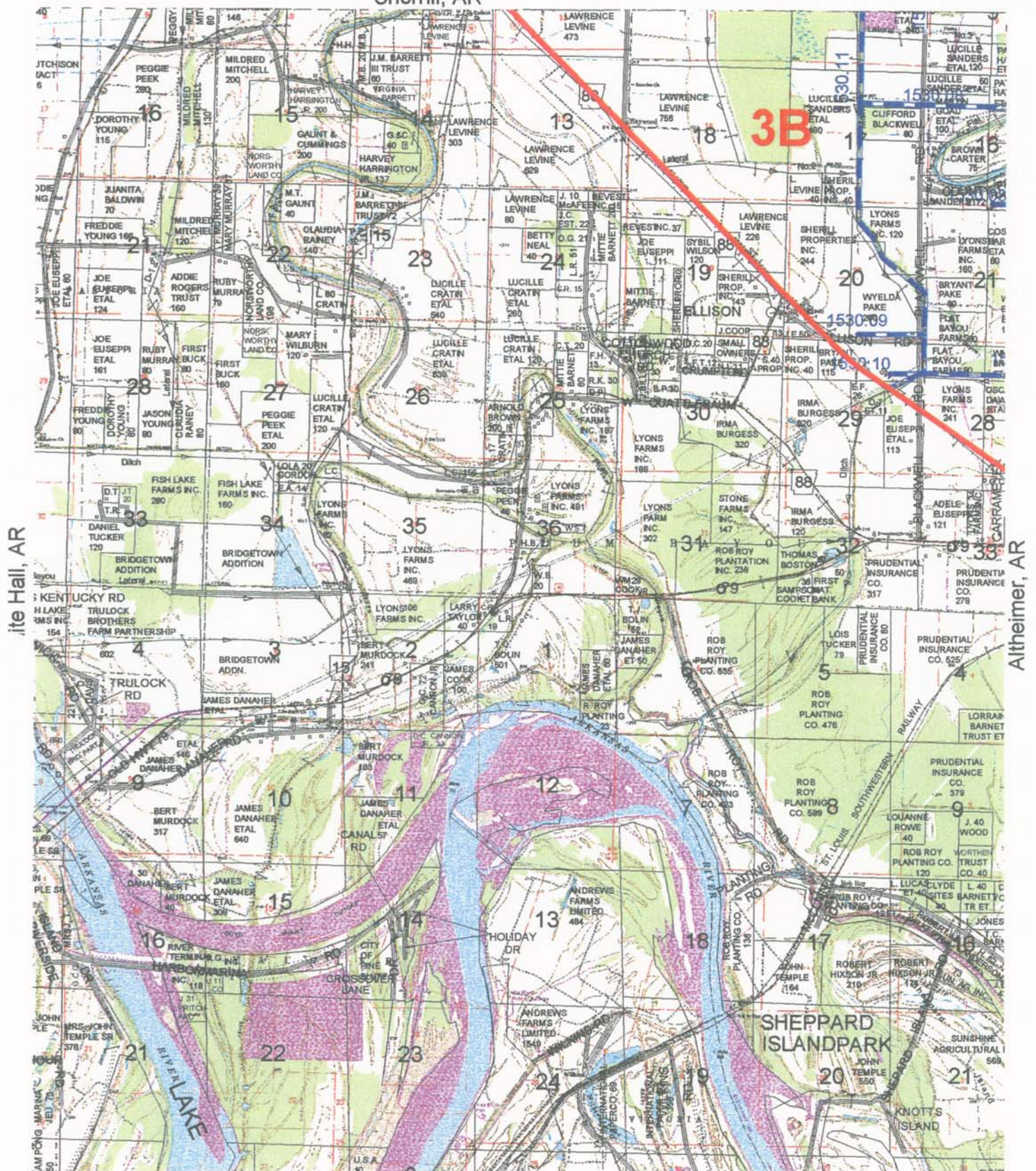


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**Pocket Prairie, AR  
Property Ownership**



Sherrill, AR



Ladd, AR



Rob Roy, AR  
Property Ownership

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**US Army Corps  
of Engineers** 4  
Memphis District



## Construction Reaches

## Pipelines

## Canals

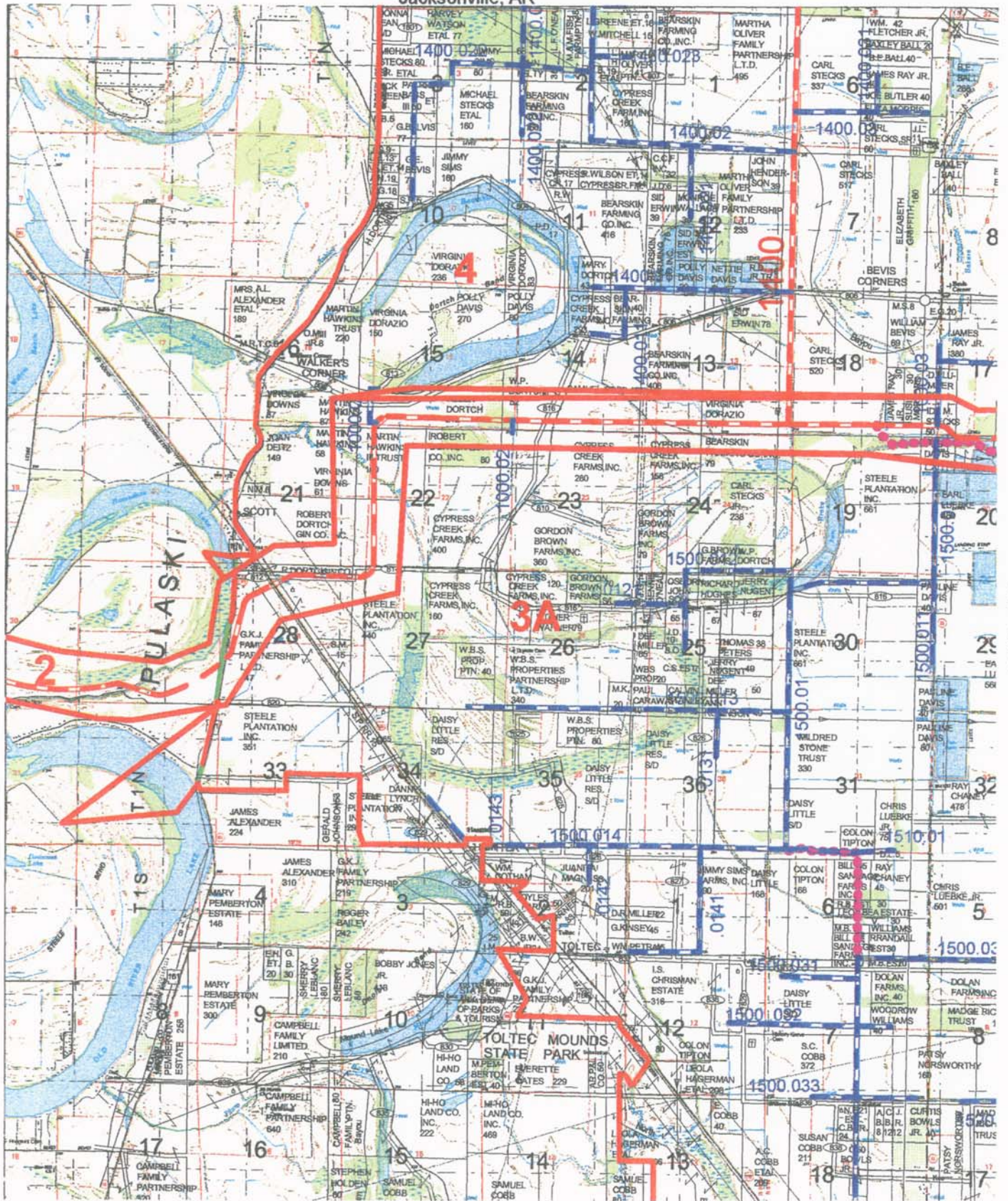
Ditches  
Bayou Meto Improvement Project Area



# Jacksonville, AR

et Home, AR

Pettus, AR



Keo, AR



US Army Corps  
of Engineers  
Memphis District

- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Meto Improvement Project Area

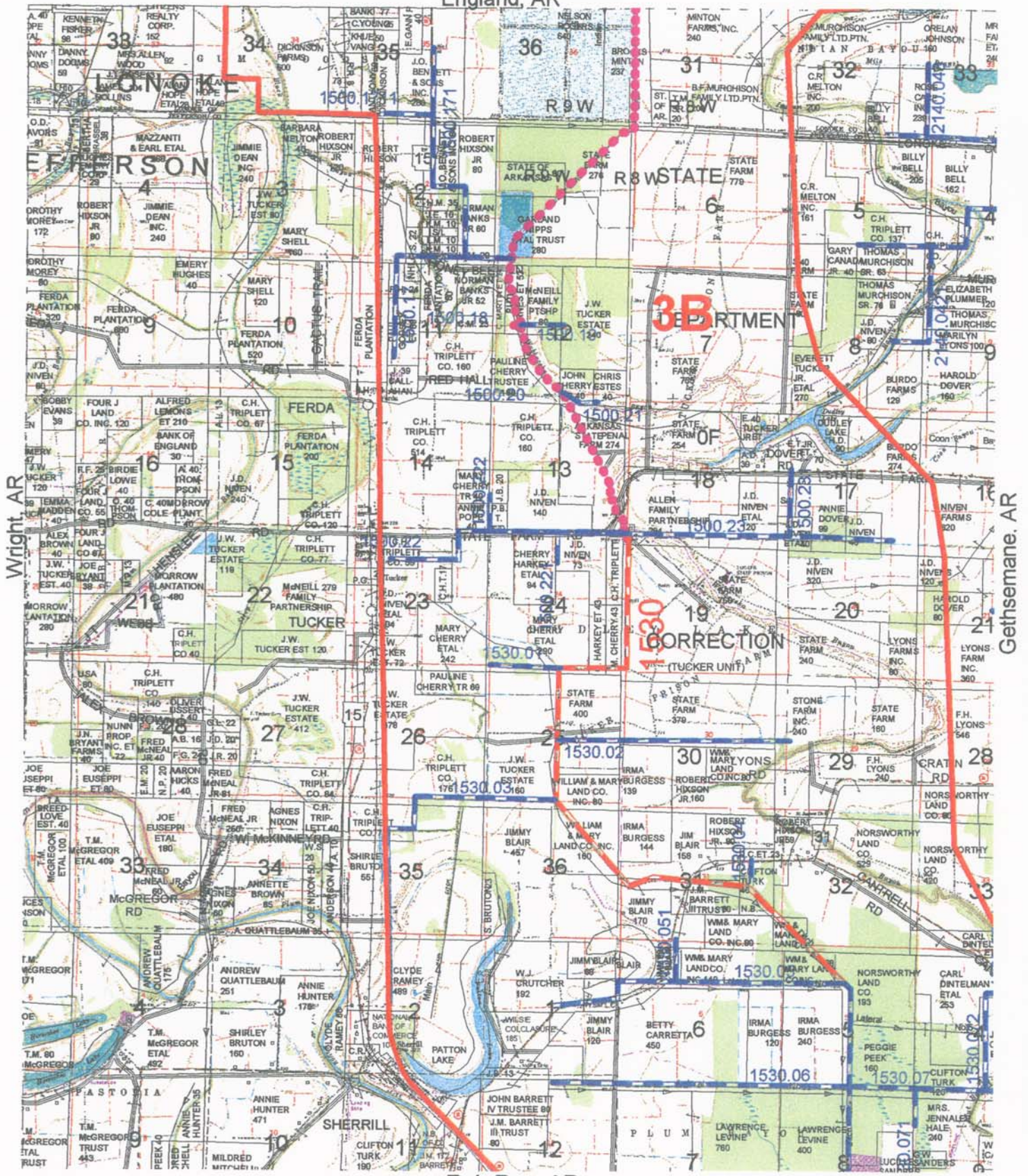


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Scott, AR  
Property Ownership



England, AR



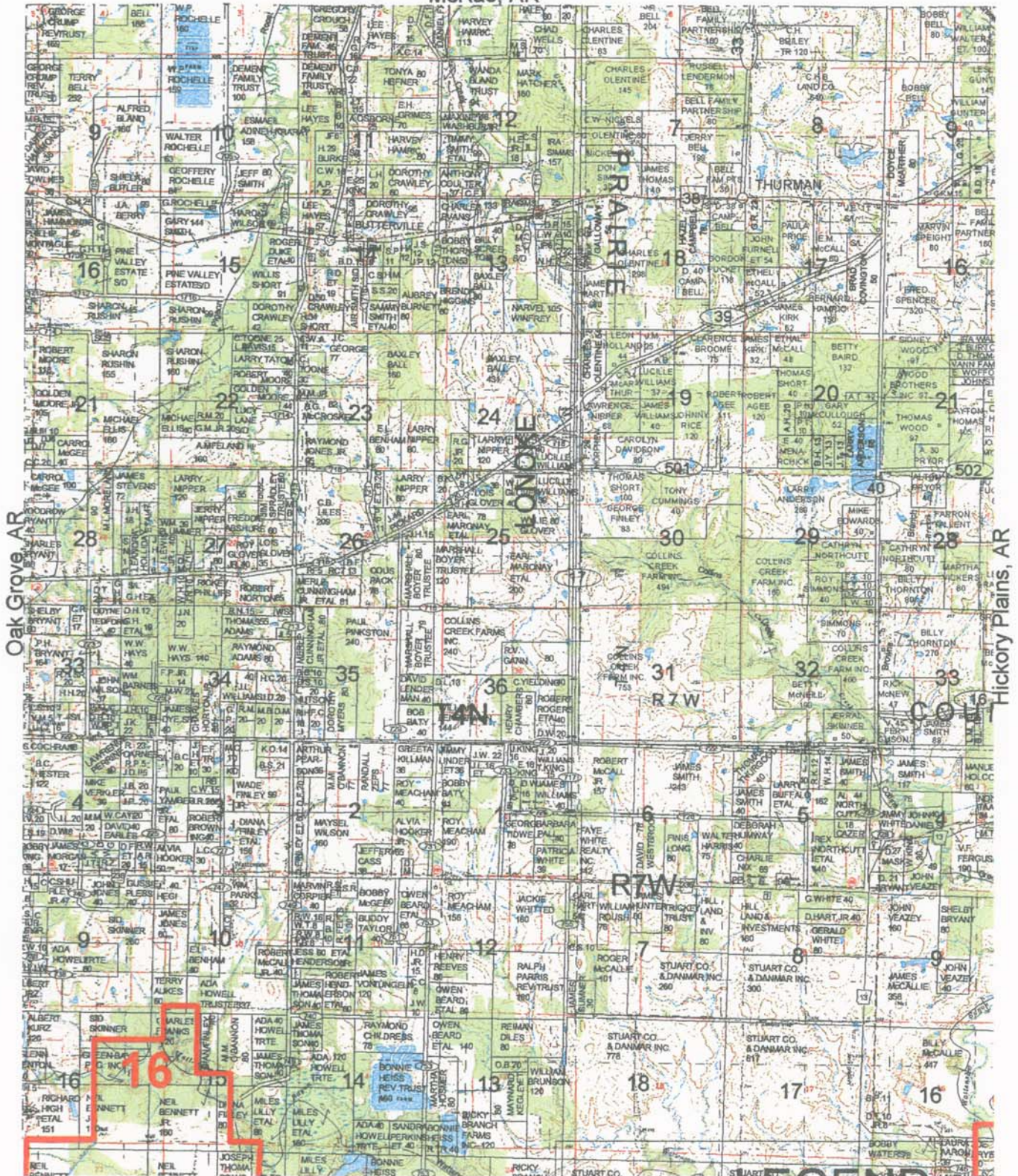
- Construction Reaches
- Pipelines
- Canals
- Ditches
- Bayou Meto Improvement Project Area

SCALE=1:62,500

Sherrill, AR  
Property Ownership



# McRae, AR



## Pocket Prairie, AR



US Army Corps  
of Engineers  
Memphis District



Construction Reaches  
Pipelines  
Canals  
Ditches  
Bayou Meto Improvement Project Area



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Wattensaw, AR  
Property Ownership