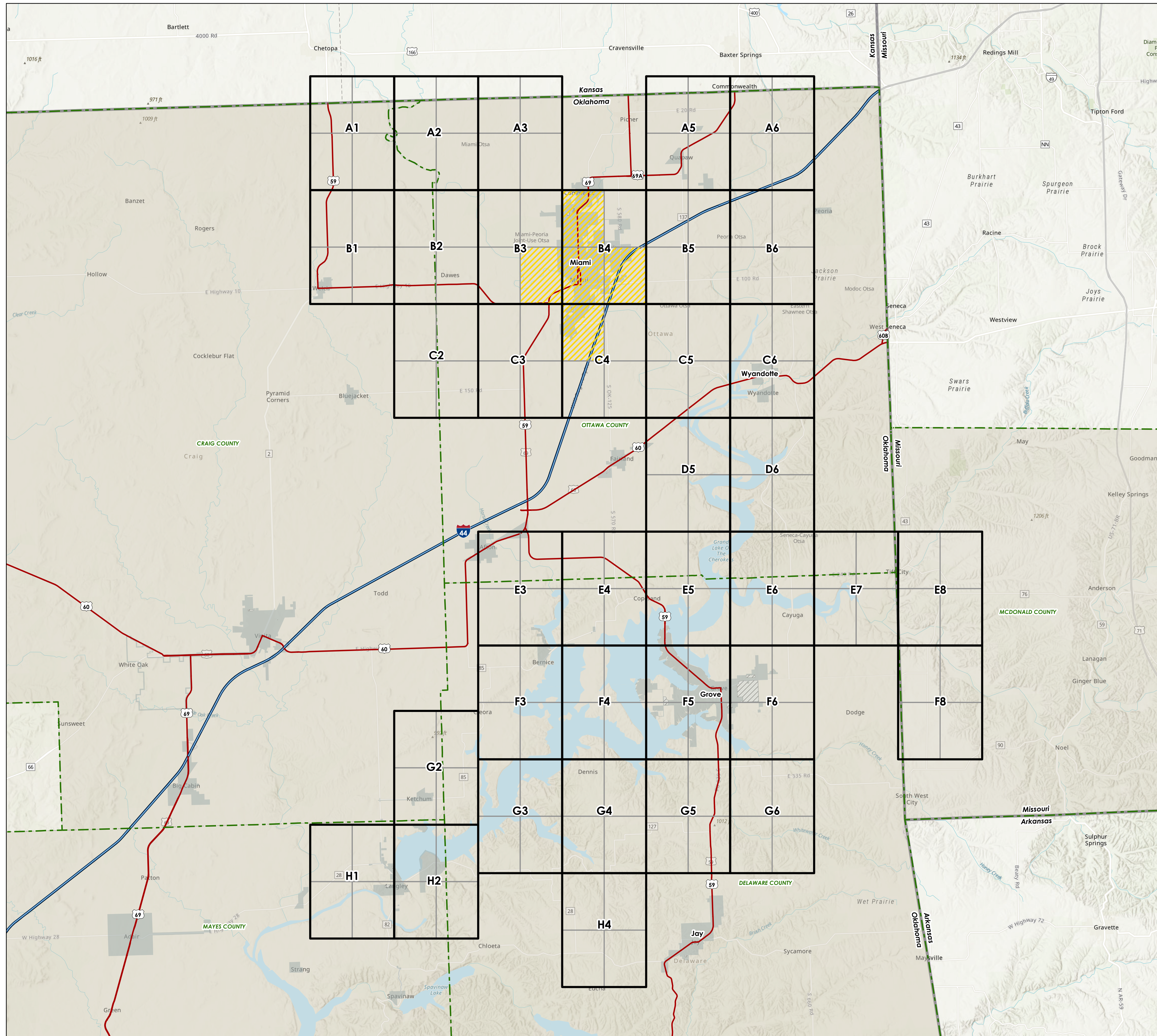


# Upstream Model Results and Critical Infrastructure Overview Map

Pensacola Dam  
GRAND RIVER DAM AUTHORITY  
September 2022



## Overview Map Legend

	1:24,000-scale Map Sheet		County Boundary		Road Class
	1:12,000-scale Detail Sheet		Municipality		Interstate
	State Boundary		Unincorporated		US Highway

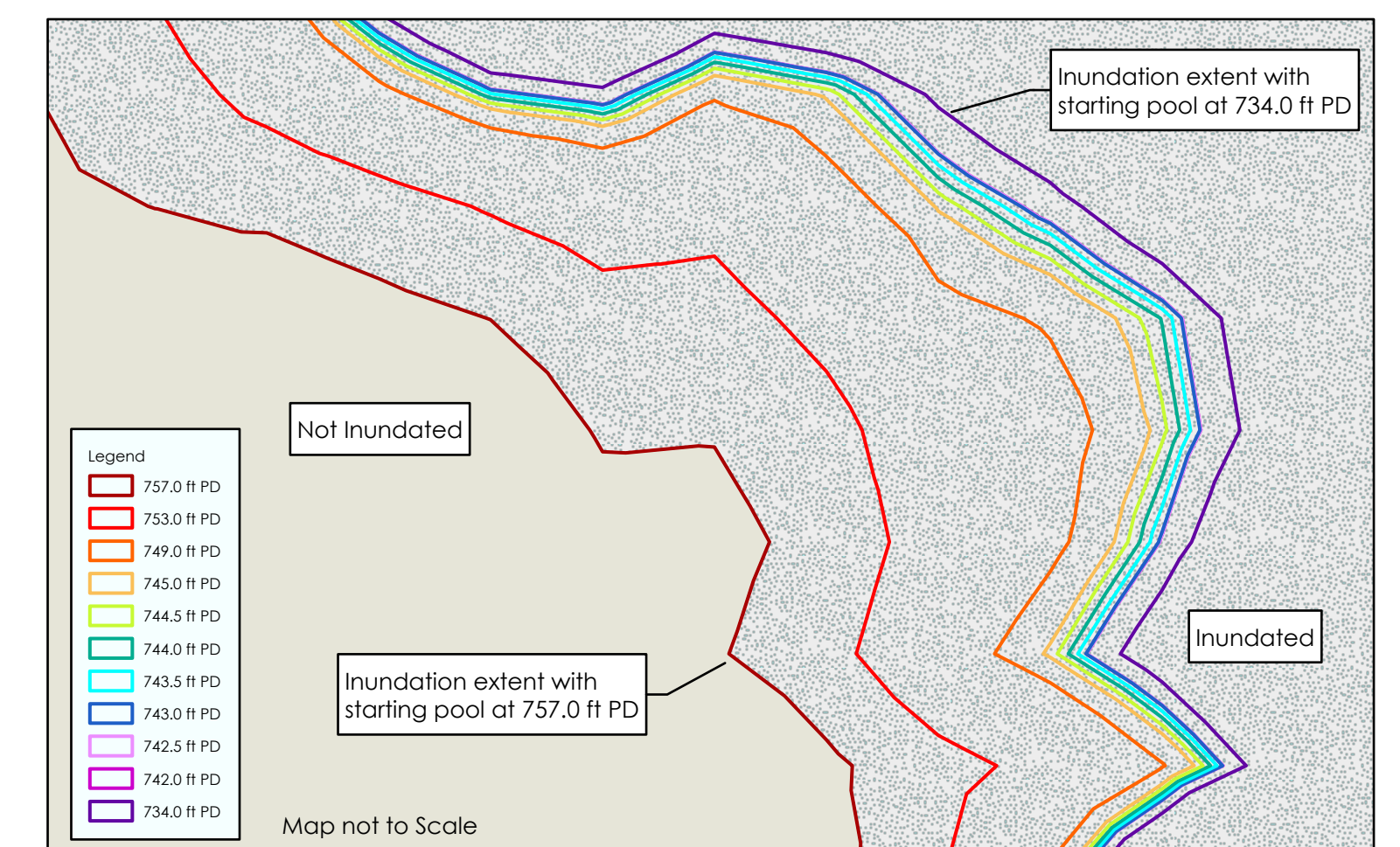
## Critical Infrastructure Legend \*

	Airport		Hospital		School		Wastewater Treatment
	Bridge, Off-sys		Fire Station		Shelter - Both		Water Treatment
	Bridge, On-sys		Law Enforcement		Shelter - Evac Only		
	Bridge, RR		Church		Power Plant		
	Cell Tower		Park		Substation		

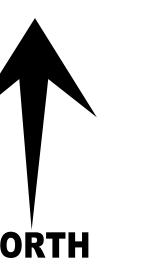
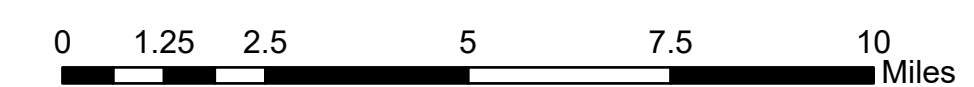
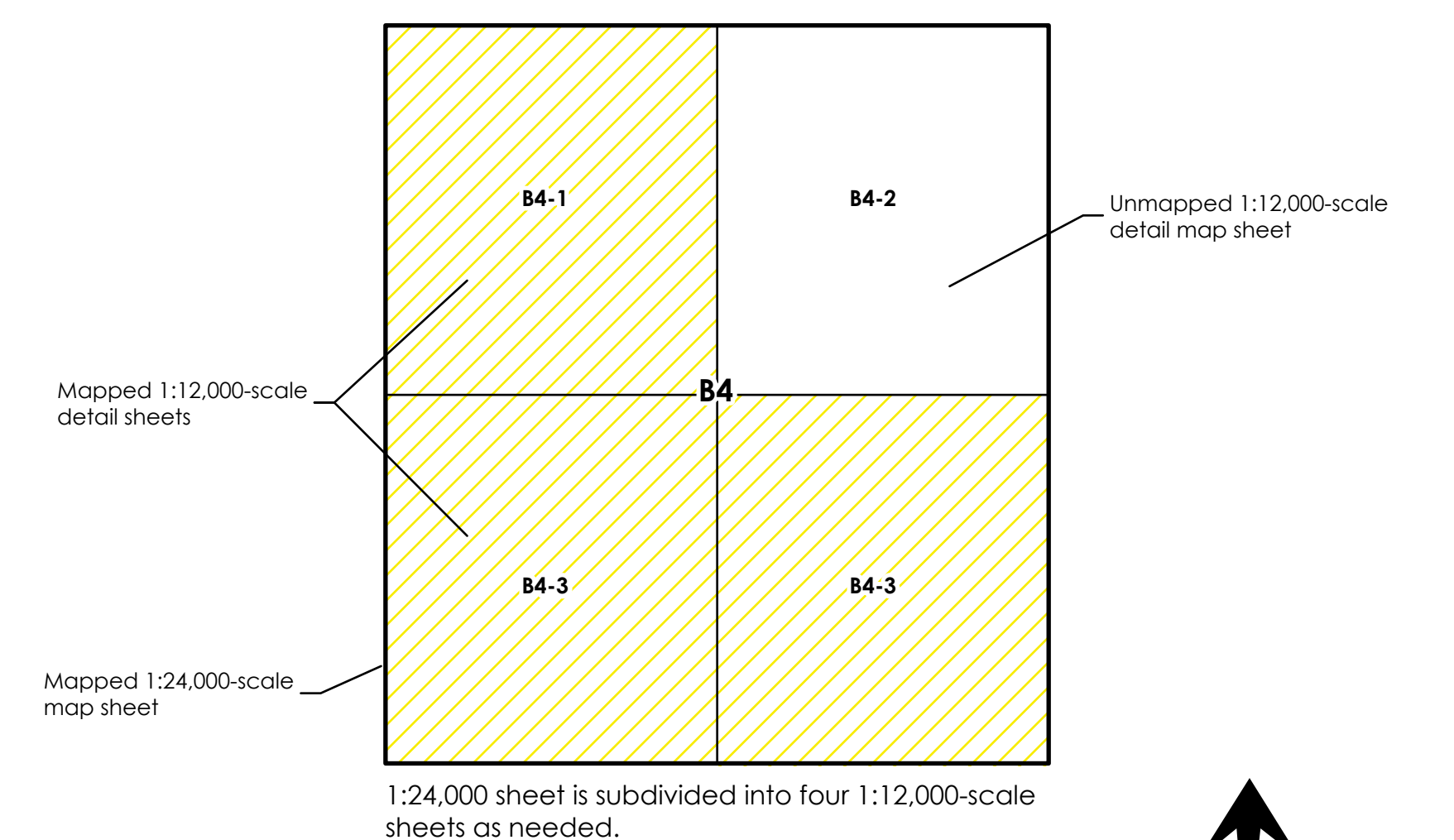
\* Due to space constraints on the individual map sheets, the Critical Infrastructure symbols are provided here. Refer to this Overview Map when using the individual map sheets.

## Inundation Scenario Mapping

Mapping shows the extent of inundation for the selected hydraulic event under different starting pool elevations: 734.0 ft PD, 742.0 ft PD, 742.5 ft PD, 743.0 ft PD, 743.5 ft PD, 744.0 ft PD, 744.5 ft PD, 745.0 ft PD, 749.0 ft PD, 753.0 ft PD, and 757.0 ft PD.



## Map Sheet Organization



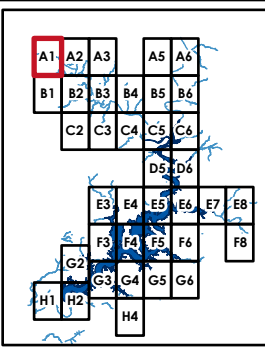
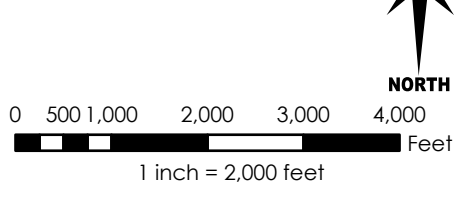
## Map Notes

### Data Sources for Maps:

1. Base map images from [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019
2. Transportation network (major roads, local roads, and railroads) and county boundaries obtained from the Oklahoma Office of Geographic Information (<http://okmaps.org/cgi/search.aspx>).
3. Parcels owned by GRDA are from GIS parcel data provided by County Assessor's Offices (2020).
4. The displayed Flowage Easement is equal to the 760-foot NGVD29 elevation contour, extracted from 2011 Dewberry LIDAR.



# SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	Major Collector
State Highway	Local Road
US Highway	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

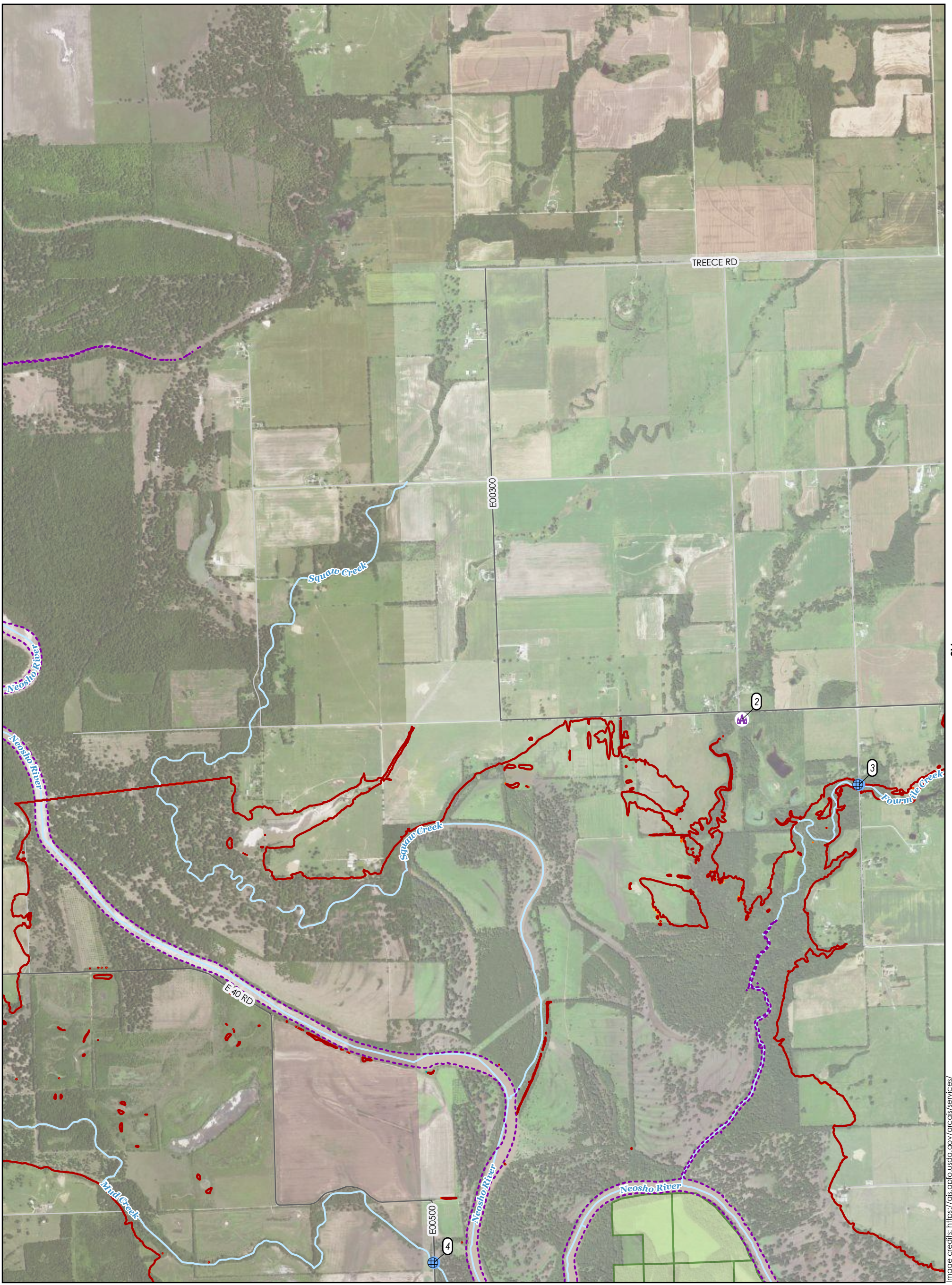
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

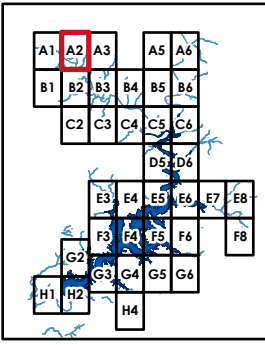
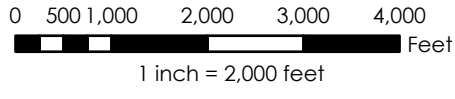
**MAP: A1**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: A2**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019



A2

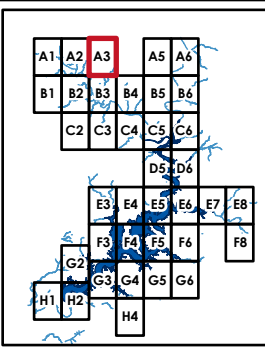
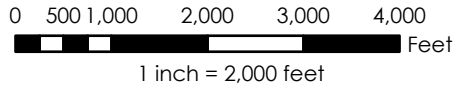
A4

B2

B3

B4

### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	State Highway	US Highway	Major Collector	Local Road
------------	---------------	------------	-----------------	------------

Railroad	Stream	Flowage Easements	Project Boundary	GRDA Ownership
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**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: A3**

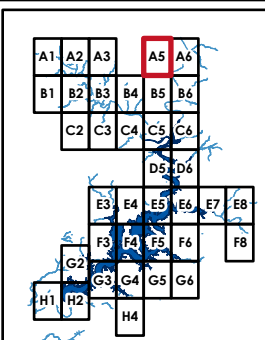
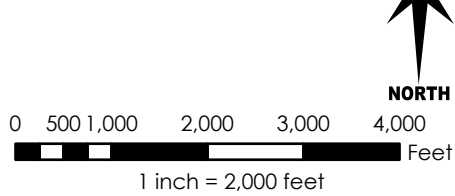
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019



# SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	Major Collector
State Highway	Local Road
US Highway	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: A5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

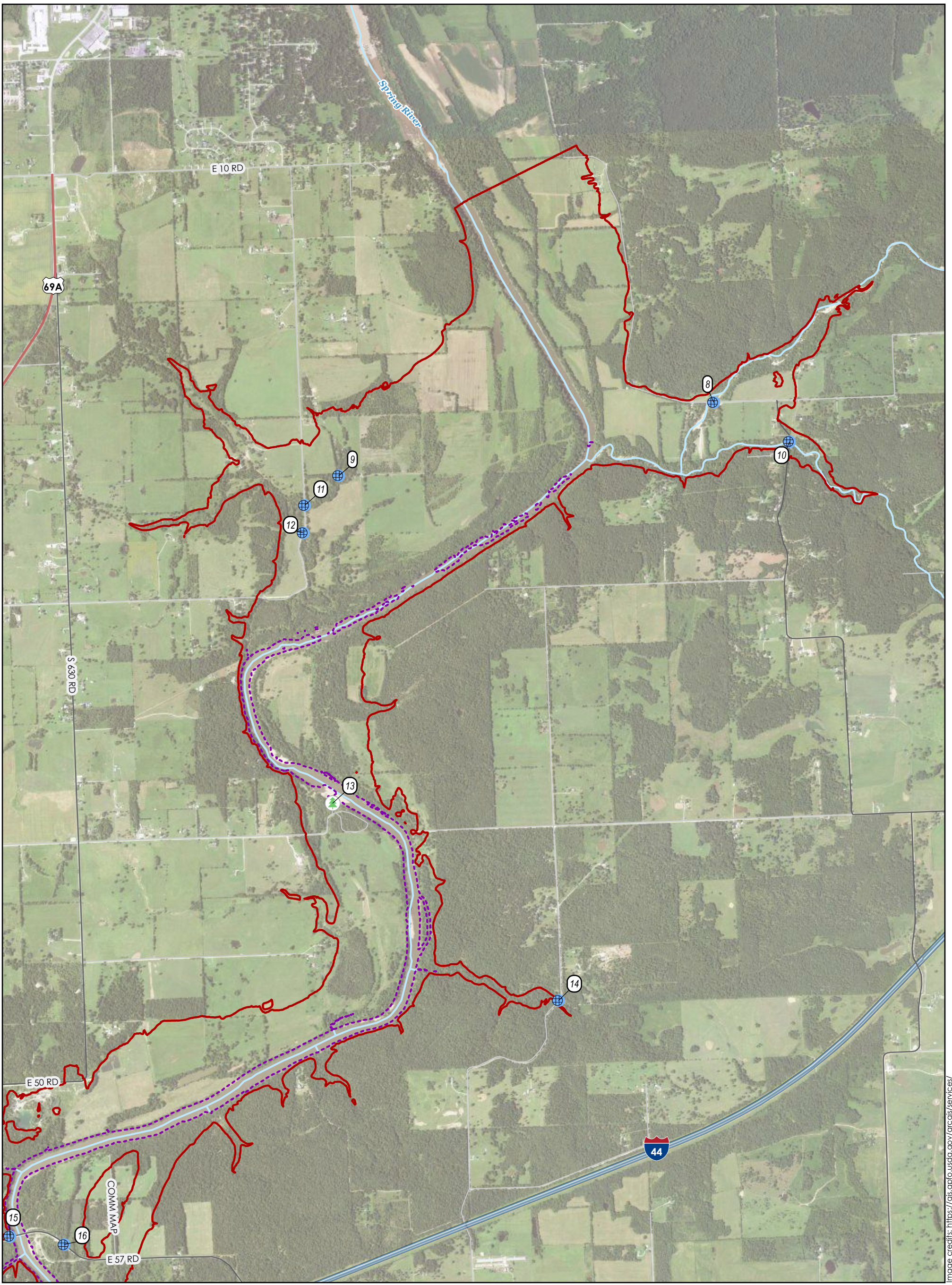


Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)

**NORTH** ↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet

#### SEP 1993 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

#### Legend

ROAD CLASS	Symbol
Interstate	Blue line with red border
State Highway	Grey line
US Highway	Red line
Major Collector	Black line
Local Road	Thin grey line
Railroad	Yellow line with cross-ticks
Stream	Blue line
Flowage Easements	Red dashed line
Project Boundary	Purple dashed line
GRDA Ownership	Green line

## PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

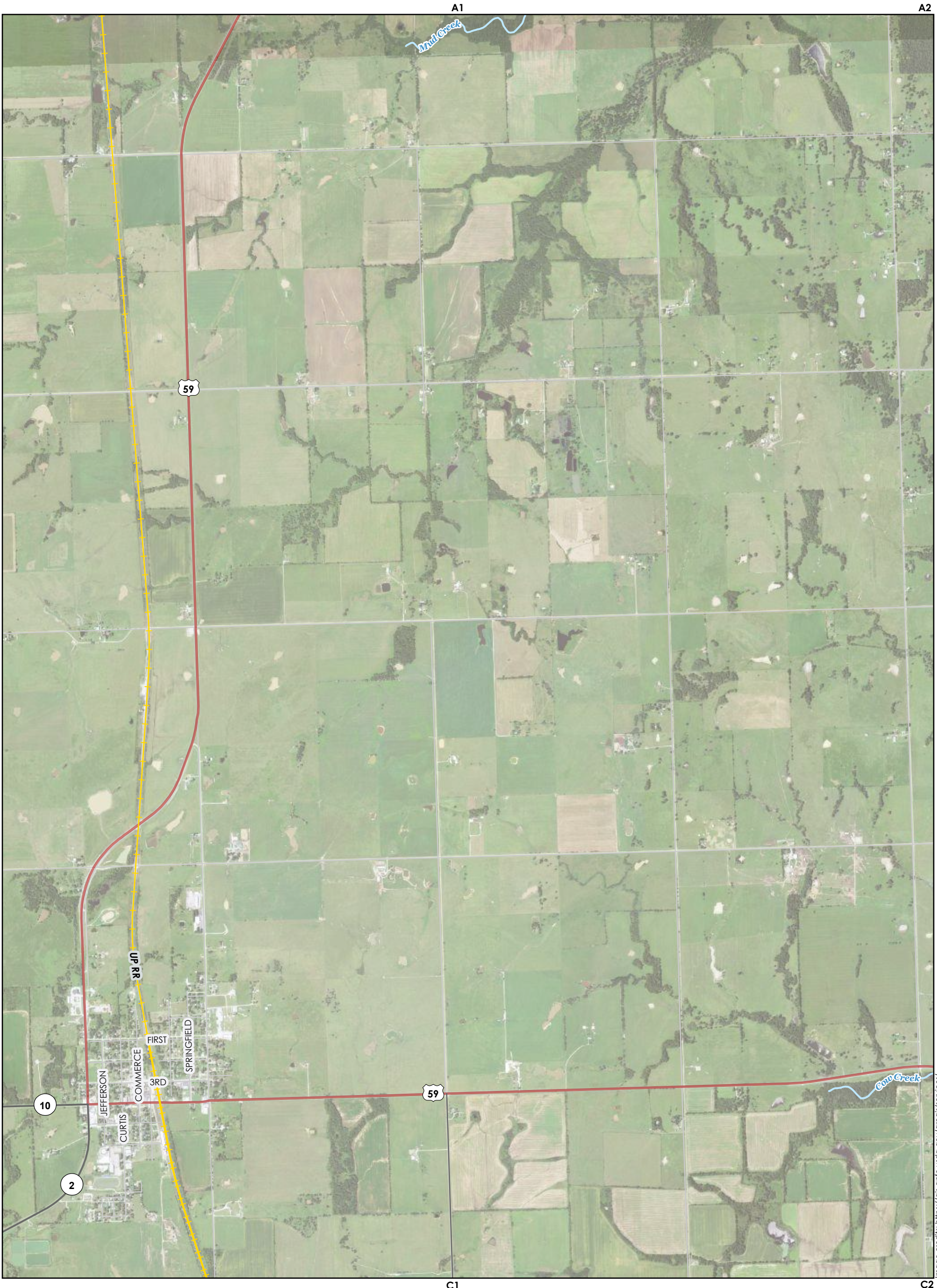
### MAP: A6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

#### MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

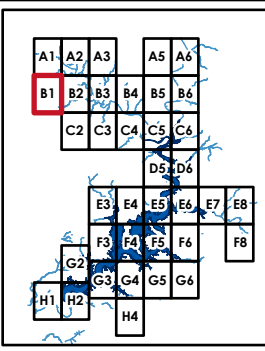


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH** ↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B1**

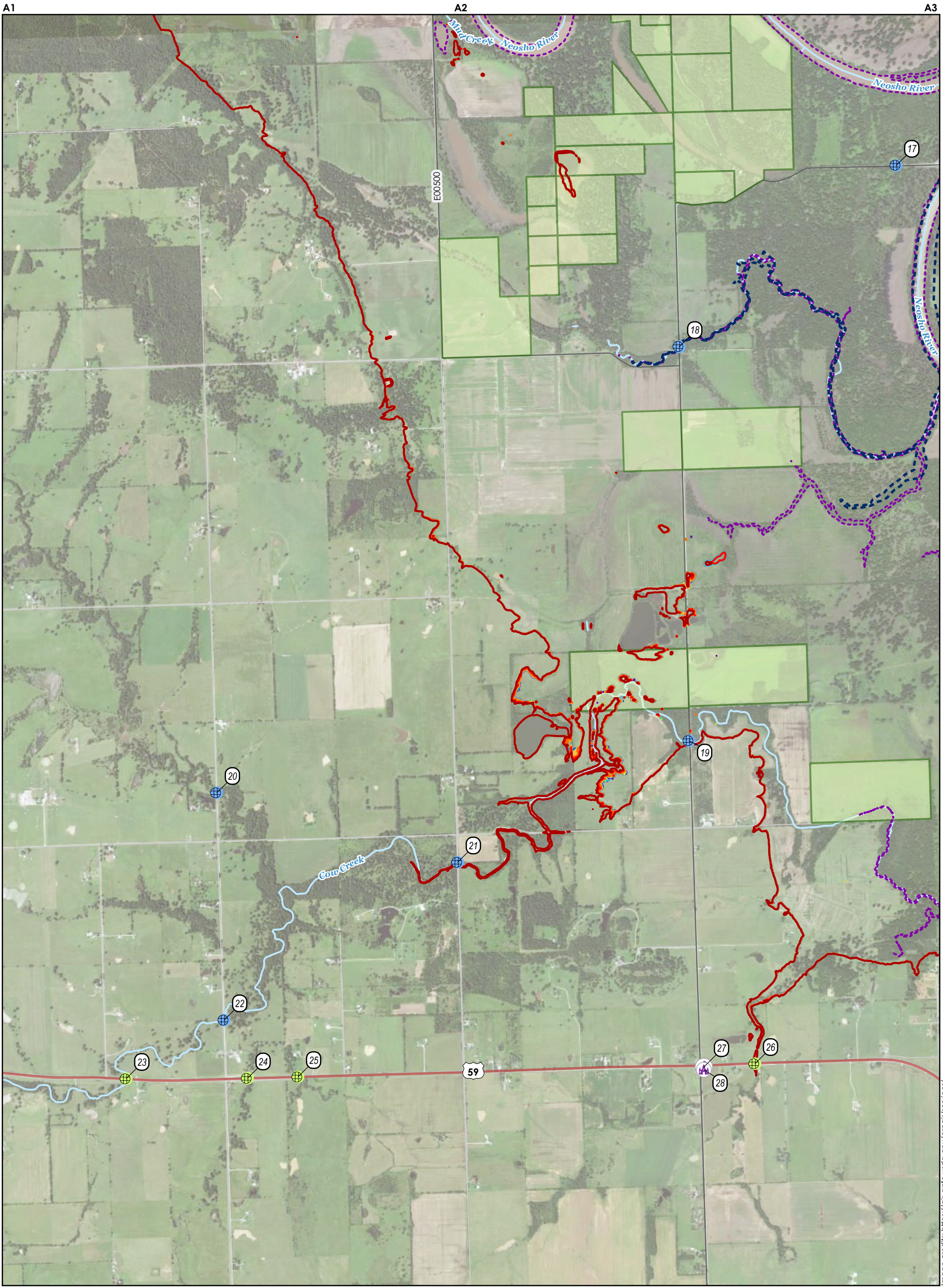
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

A1 A2 B2 C1 C2  
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019



### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6
B1	B2	B3	B4	B5	B6
C1	C2	C3	C4	C5	C6
			D5	D6	
		E3	E4	E5	E6
		F3	F4	F5	F6
		G2	G3	G4	G5
		H1	H2	H3	H4

SEP 1993 MAX INUNDATION	
<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD
<span style="color: yellow;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD
<span style="color: lightgreen;">█</span> 745.0 ft PD	<span style="color: purple;">█</span> 742.0 ft PD
<span style="color: limegreen;">█</span> 744.5 ft PD	<span style="color: darkblue;">█</span> 734.0 ft PD
<span style="color: teal;">█</span> 744.0 ft PD	

**Legend**

ROAD CLASS	
<span style="color: blue;">—</span> Interstate	<span style="color: yellow;">+</span> Railroad
<span style="color: grey;">—</span> State Highway	<span style="color: lightblue;">—</span> Stream
<span style="color: red;">—</span> US Highway	<span style="color: purple;">- - -</span> Flowage Easements
<span style="color: grey;">—</span> Major Collector	<span style="color: blue;">- - -</span> Project Boundary
<span style="color: grey;">—</span> Local Road	<span style="color: green;">█</span> GRDA Ownership

## PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

### MAP: B2

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

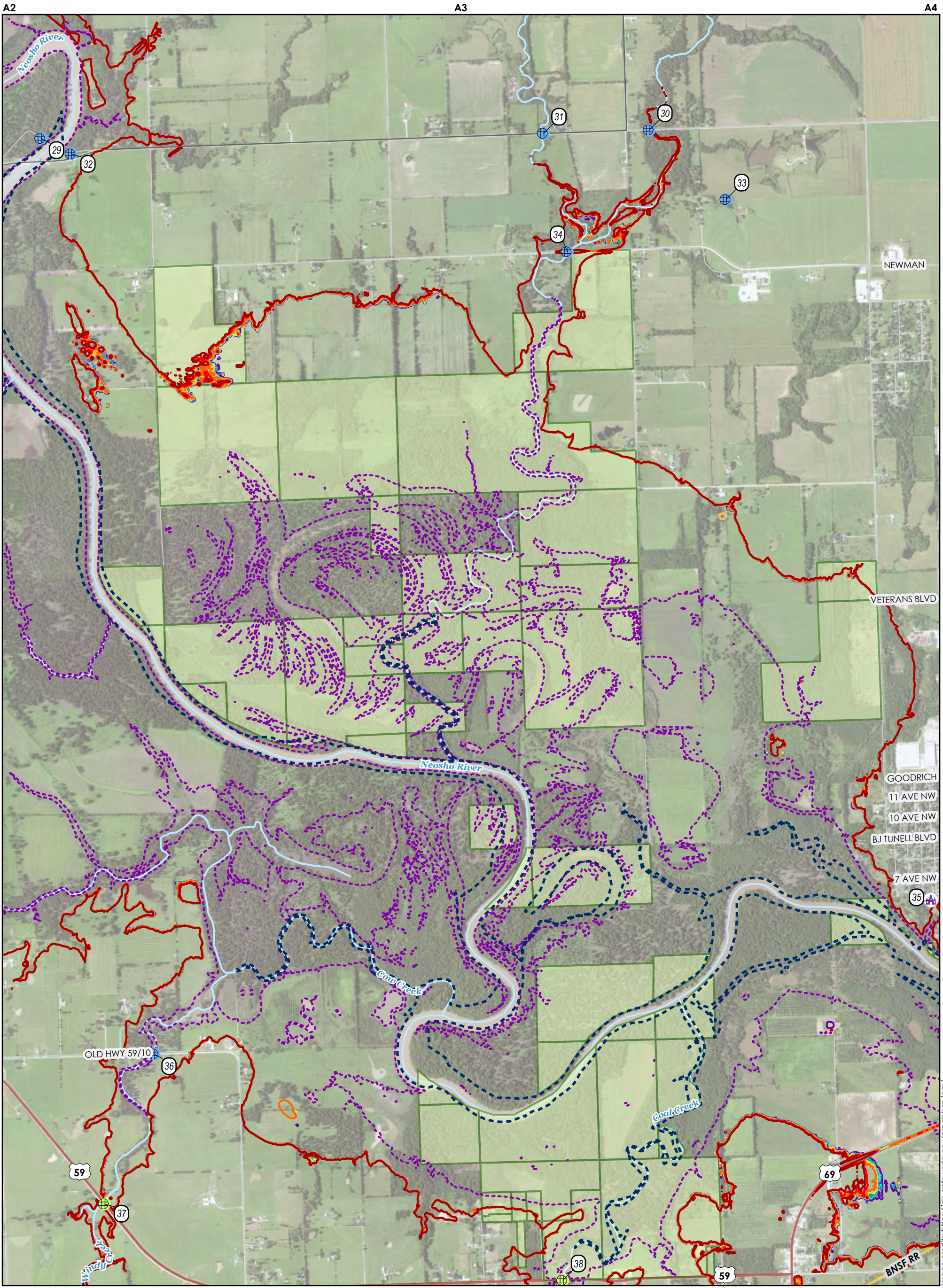
**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019





### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)

**NORTH**

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6
B1	B2	B3	B4	B5	B6
C1	C2	C3	C4	C5	C6
D1	D2	D3	D4	D5	D6
E1	E2	E3	E4	E5	E6
F1	F2	F3	F4	F5	F6
G1	G2	G3	G4	G5	G6
H1	H2	H3	H4	H5	H6

SEP 1993 MAX INUNDATION		Legend	
<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD	<span style="color: blue;">—</span> Interstate	<span style="color: blue;">—</span> Railroad
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD	<span style="color: grey;">—</span> State Highway	<span style="color: lightblue;">—</span> Stream
<span style="color: yellow;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD	<span style="color: red;">—</span> US Highway	<span style="color: purple;">- - -</span> Flowage Easements
<span style="color: lightgreen;">█</span> 745.0 ft PD	<span style="color: purple;">█</span> 742.0 ft PD	<span style="color: grey;">—</span> Major Collector	<span style="color: blue;">- - -</span> Project Boundary
<span style="color: yellowgreen;">█</span> 744.5 ft PD	<span style="color: purple;">█</span> 734.0 ft PD	<span style="color: grey;">—</span> Local Road	<span style="color: green;">█</span> GRDA Ownership
<span style="color: green;">█</span> 744.0 ft PD			

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

## PENSACOLA DAM

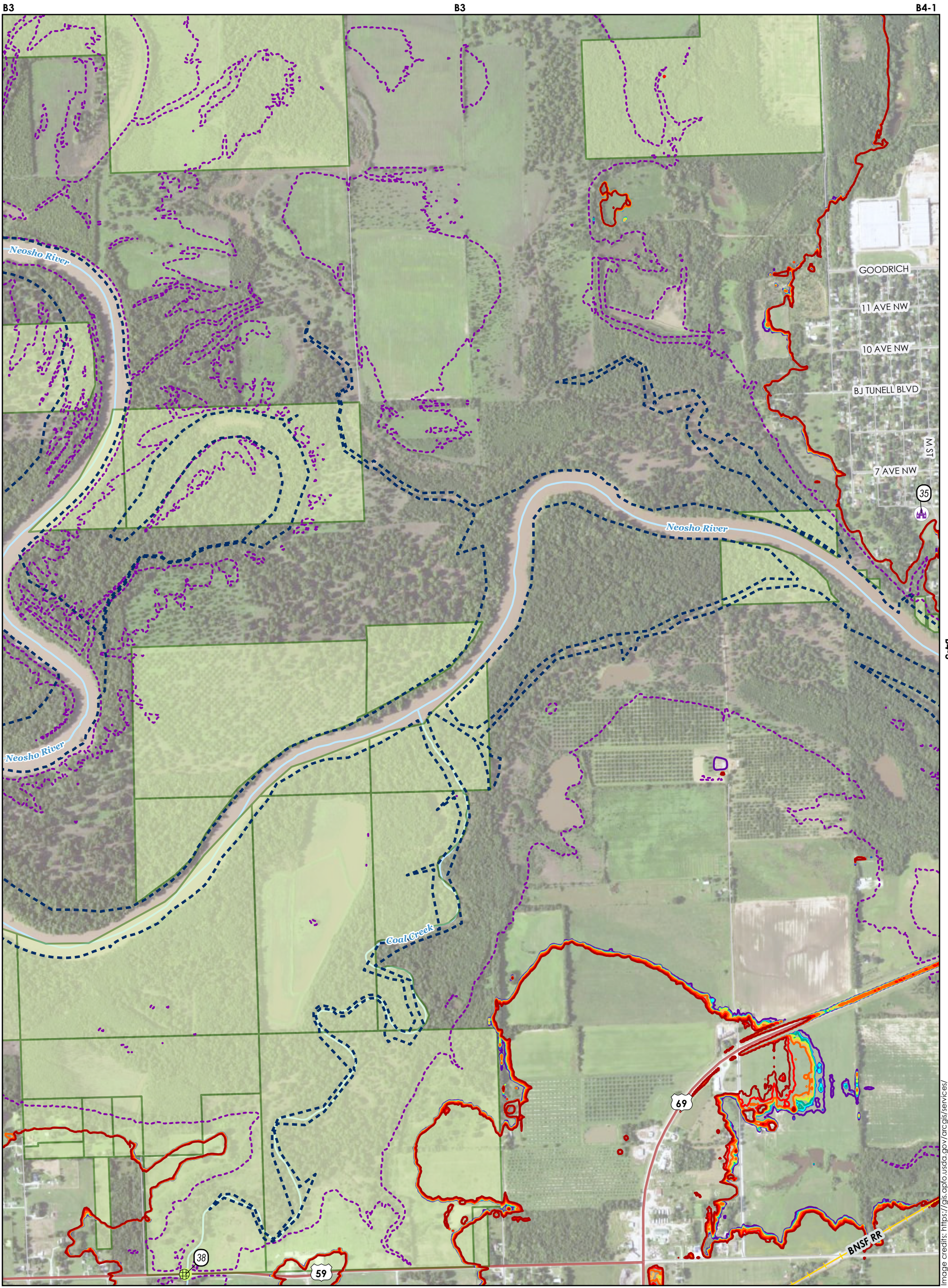
GRAND RIVER DAM AUTHORITY

### MAP: B3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019

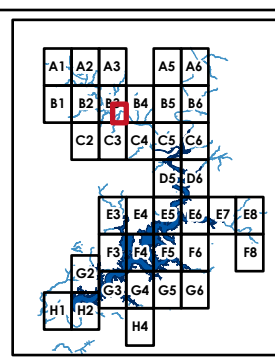


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 250 500 1,000 1,500 2,000  
Feet

1 inch = 1,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	Symbol
Interstate	Blue dashed line
State Highway	Grey dashed line
US Highway	Red dashed line
Major Collector	Black dashed line
Local Road	Thin grey line
Railroad	Yellow line with cross-ticks
Stream	Blue line
Flowage Easements	Purple dashed line
Project Boundary	Blue dashed line
GRDA Ownership	Green outline

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

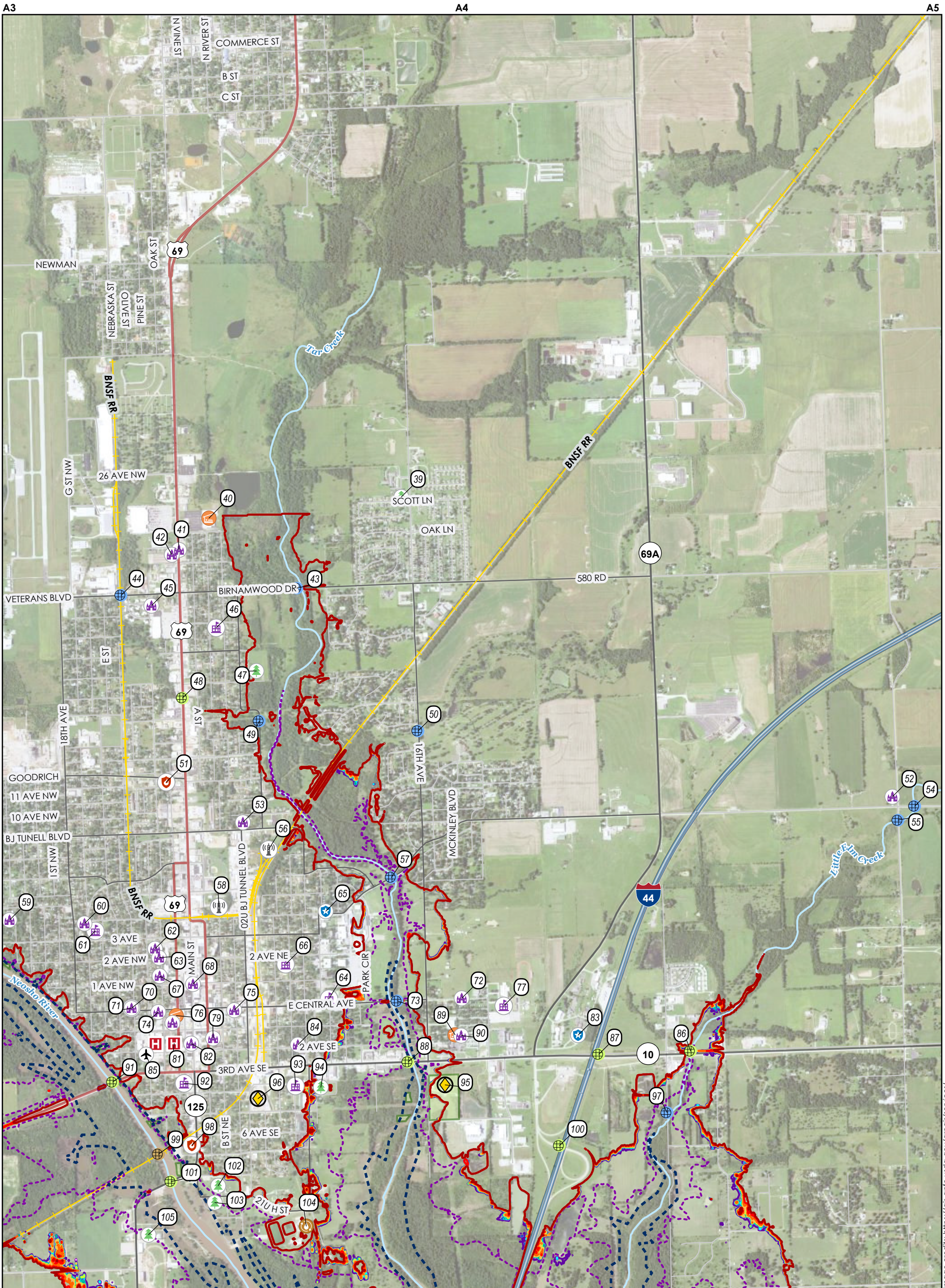
**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

**MAP: B3-4**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

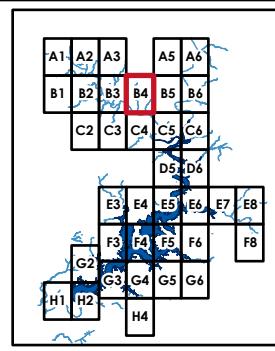


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	Symbol
Interstate	Blue line with red and blue shields
State Highway	Grey line with white shield
US Highway	Red line with white shield
Major Collector	Black line with white shield
Local Road	Thin grey line
Railroad	Yellow line with cross-ticks
Stream	Blue line
Flowage Easements	Dashed purple line
Project Boundary	Dashed blue line
GRDA Ownership	Green shaded area

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

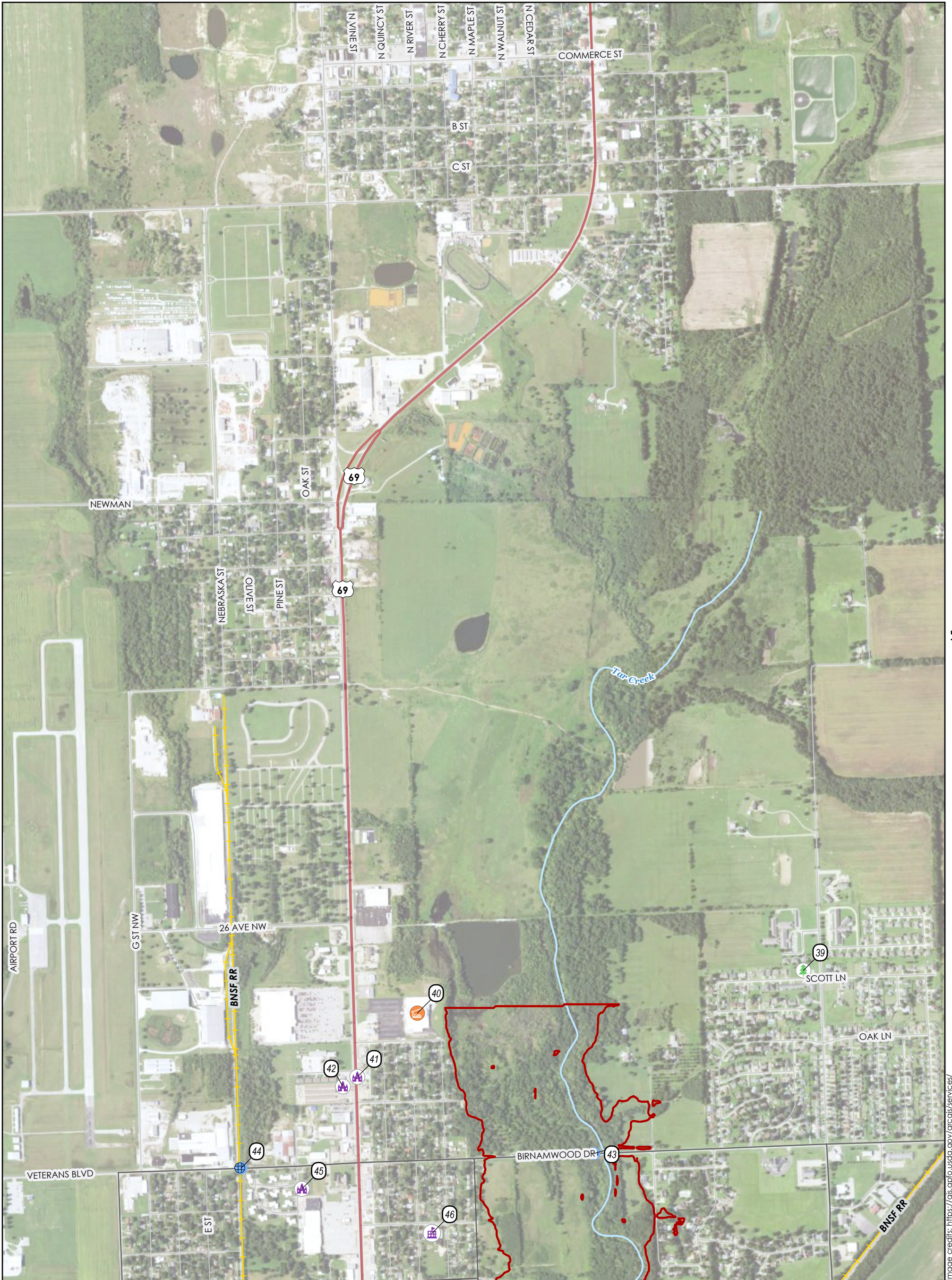
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

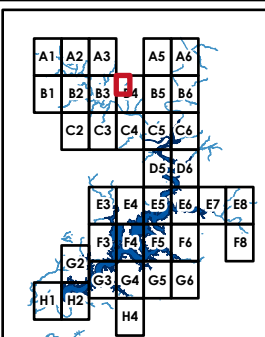
Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



0 250 500 1,000 1,500 2,000 Feet  
1 inch = 1,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

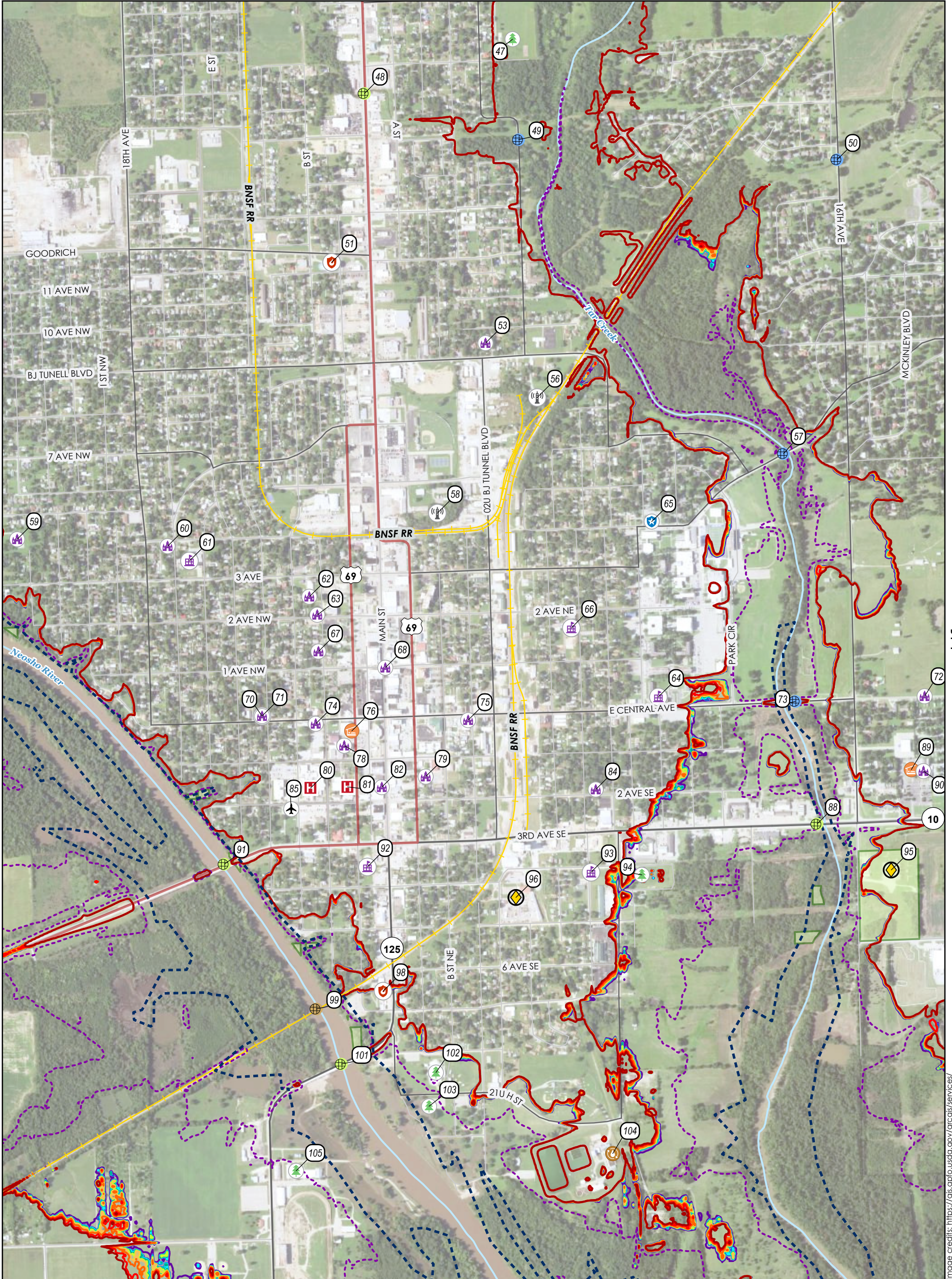
**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

**MAP: B4-1**

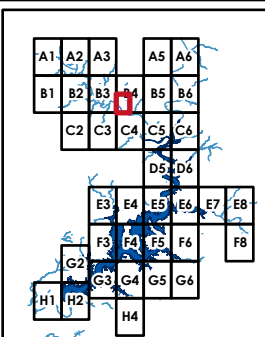
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



0 250 500 1,000 1,500 2,000 Feet  
1 inch = 1,000 feet



**SEP 1993 MAX INUNDATION**

- 757.0 ft PD
- 753.0 ft PD
- 749.0 ft PD
- 745.0 ft PD
- 744.5 ft PD
- 744.0 ft PD
- 743.5 ft PD
- 743.0 ft PD
- 742.5 ft PD
- 742.0 ft PD
- 734.0 ft PD

**Legend**

- ROAD CLASS**
- Interstate
  - State Highway
  - US Highway
  - Major Collector
  - Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

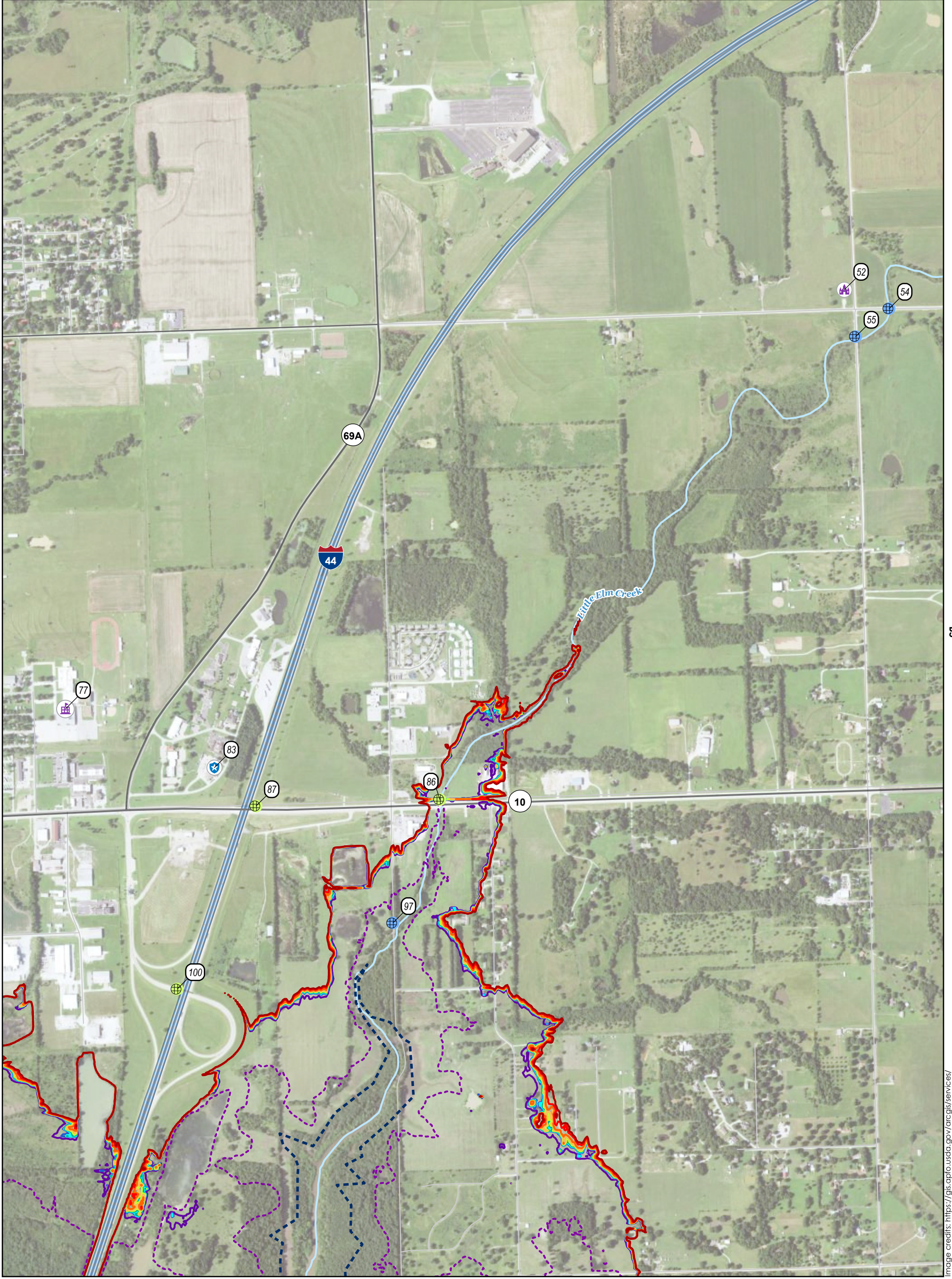
**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

**MAP: B4-3**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022

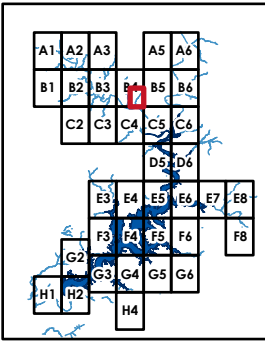


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH** ↑

0 250 500 1,000 1,500 2,000 Feet

1 inch = 1,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

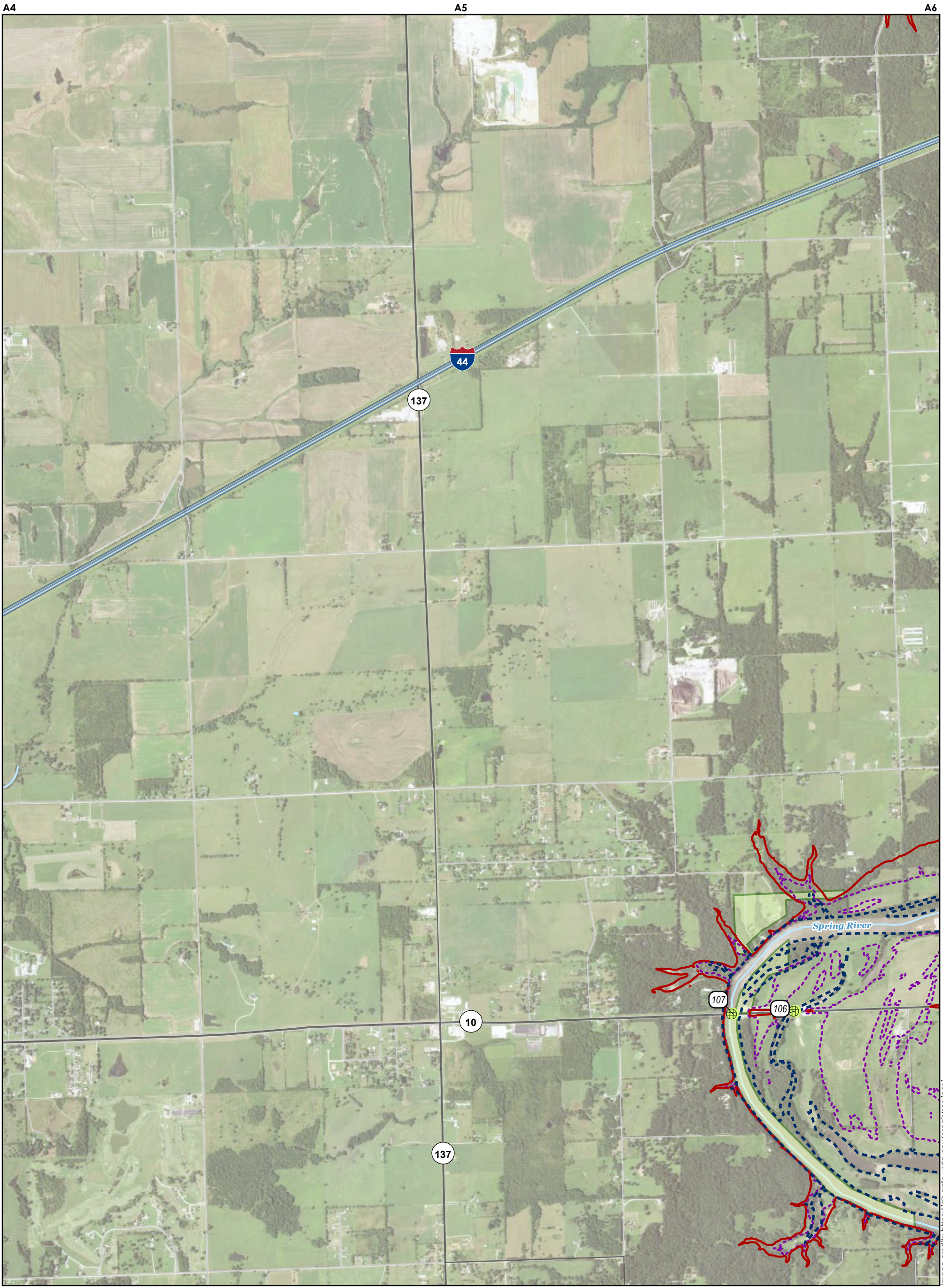
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

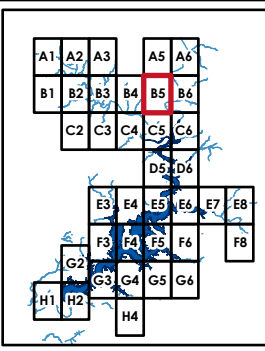
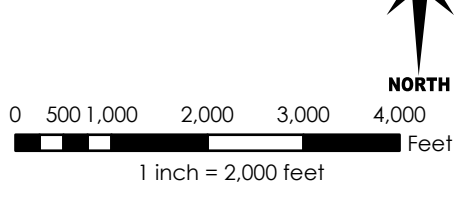
**MAP: B4-4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

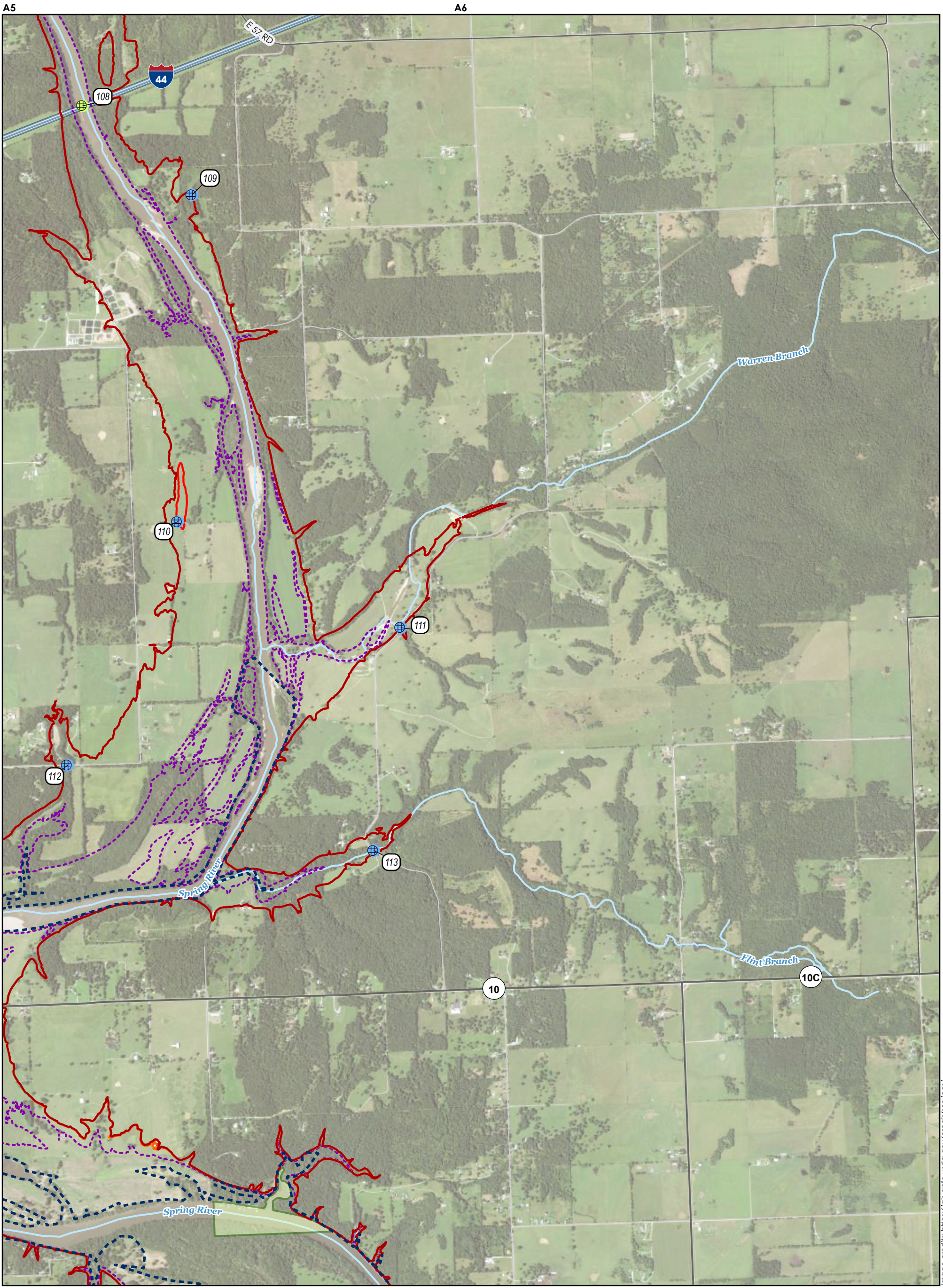
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

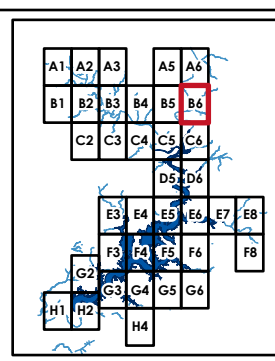


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	Symbol
Interstate	Blue line with red border
State Highway	Red line
US Highway	Black line
Major Collector	Grey line
Local Road	Thin grey line
Railroad	Yellow line with cross-ticks
Stream	Blue line
Flowage Easements	Dashed purple line
Project Boundary	Dashed blue line
GRDA Ownership	Green shaded area

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B6**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

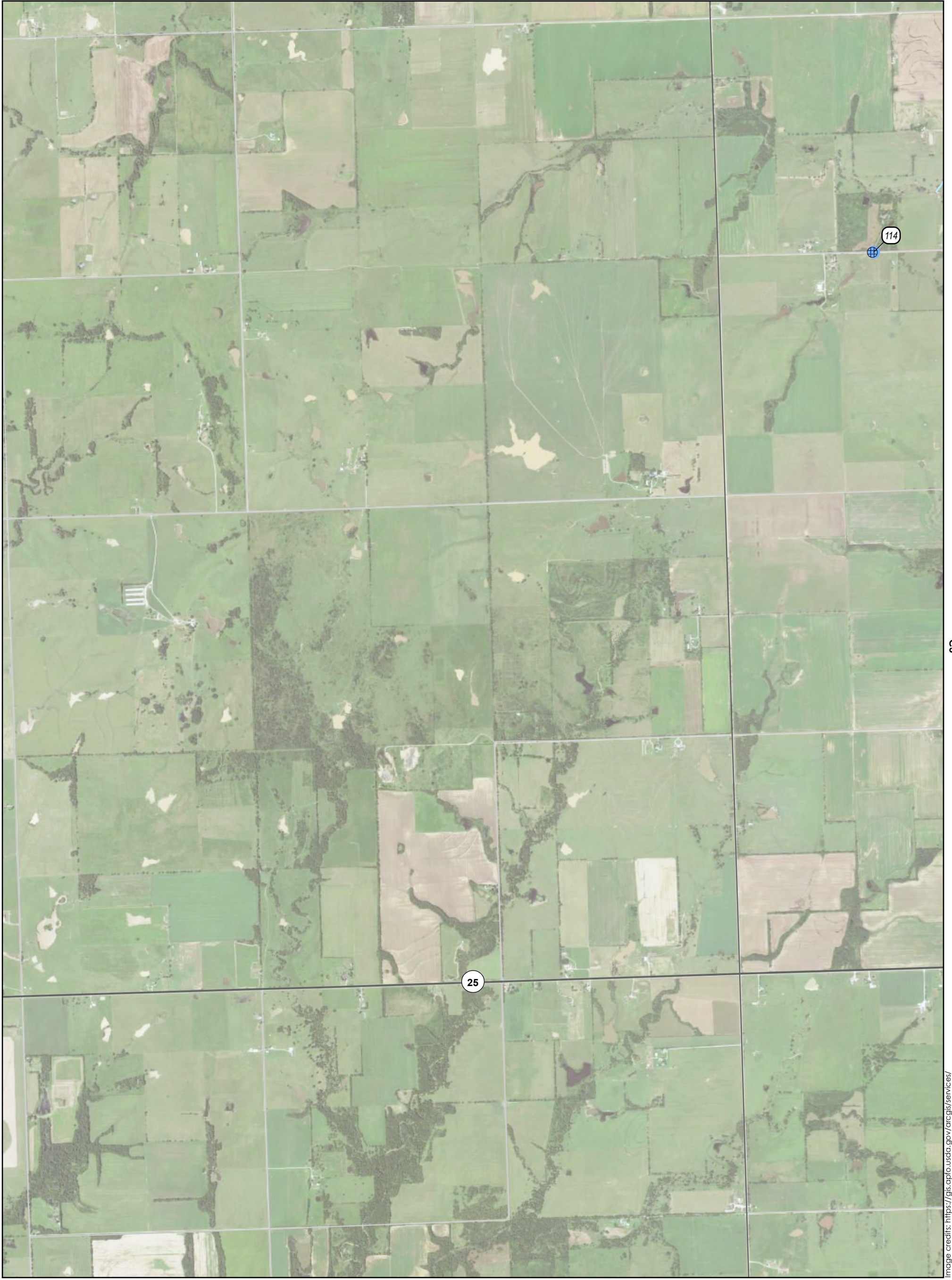
**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

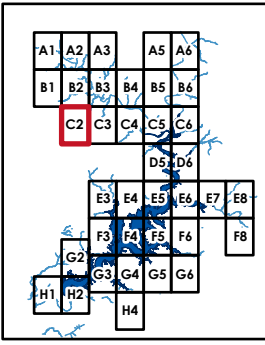
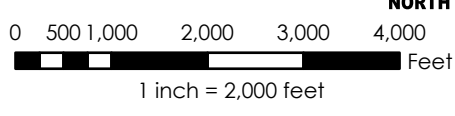
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019





**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

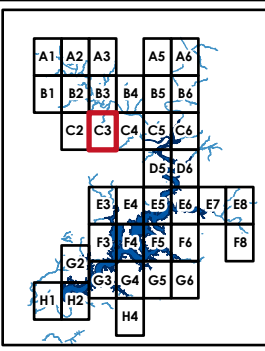
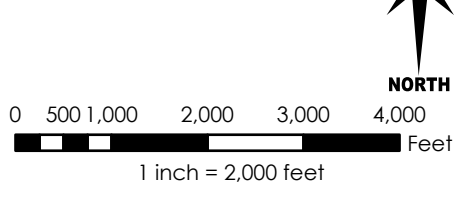
**MAP: C2**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	State Highway	US Highway	Major Collector	Local Road
------------	---------------	------------	-----------------	------------

Railroad	Stream	Flowage Easements	Project Boundary	GRDA Ownership
----------	--------	-------------------	------------------	----------------

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

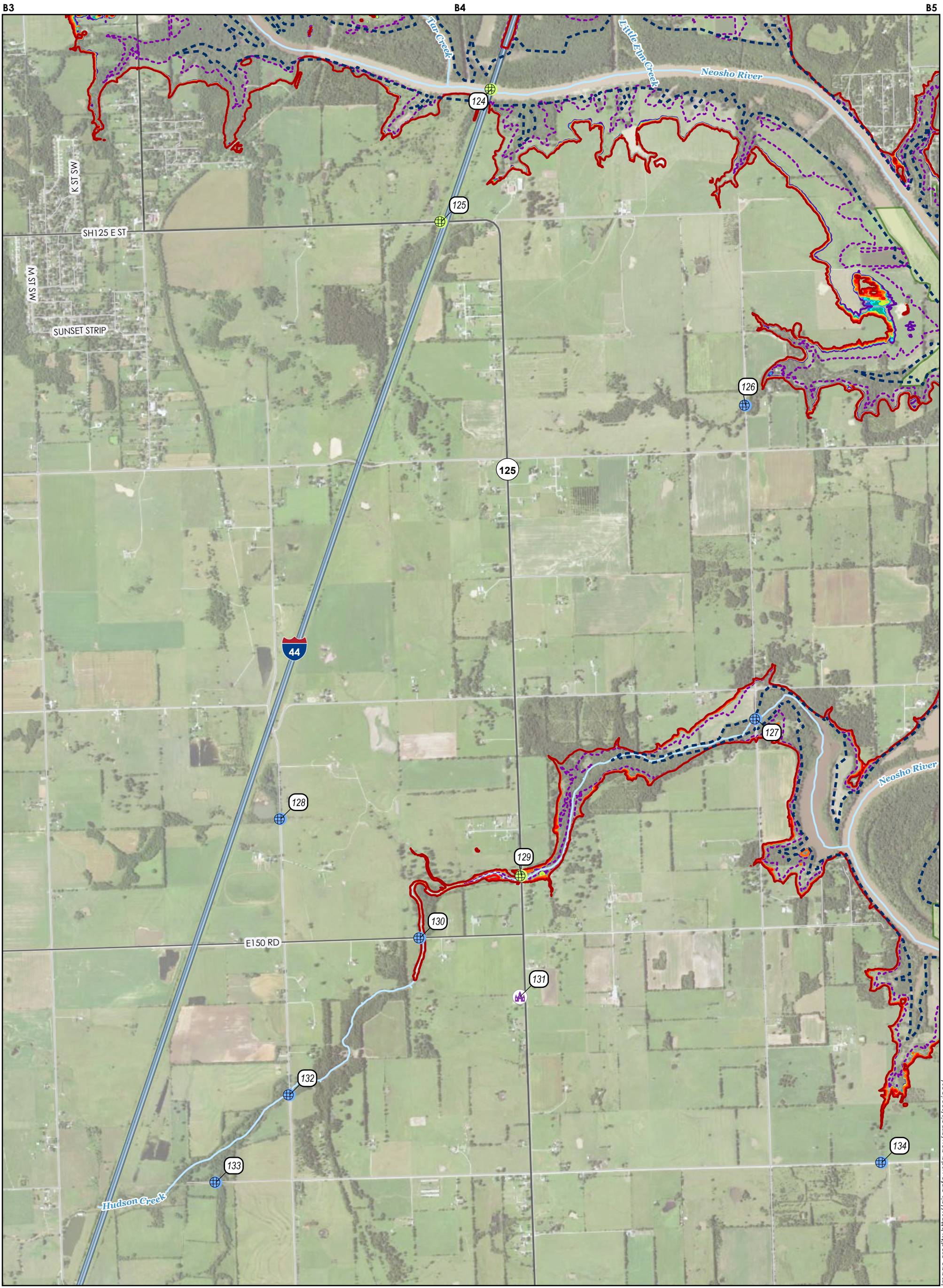
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C3**

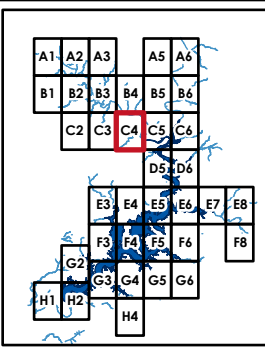
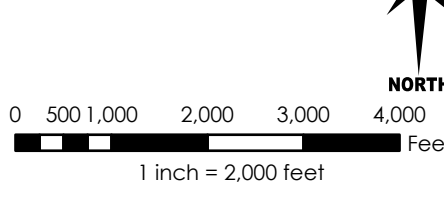
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	Symbol
Interstate	Blue double line
State Highway	Grey line
US Highway	Red line
Major Collector	Black line
Local Road	Thin grey line
Railroad	Yellow cross-ticks
Stream	Blue line
Flowage Easements	Dashed purple line
Project Boundary	Dashed blue line
GRDA Ownership	Green outline

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

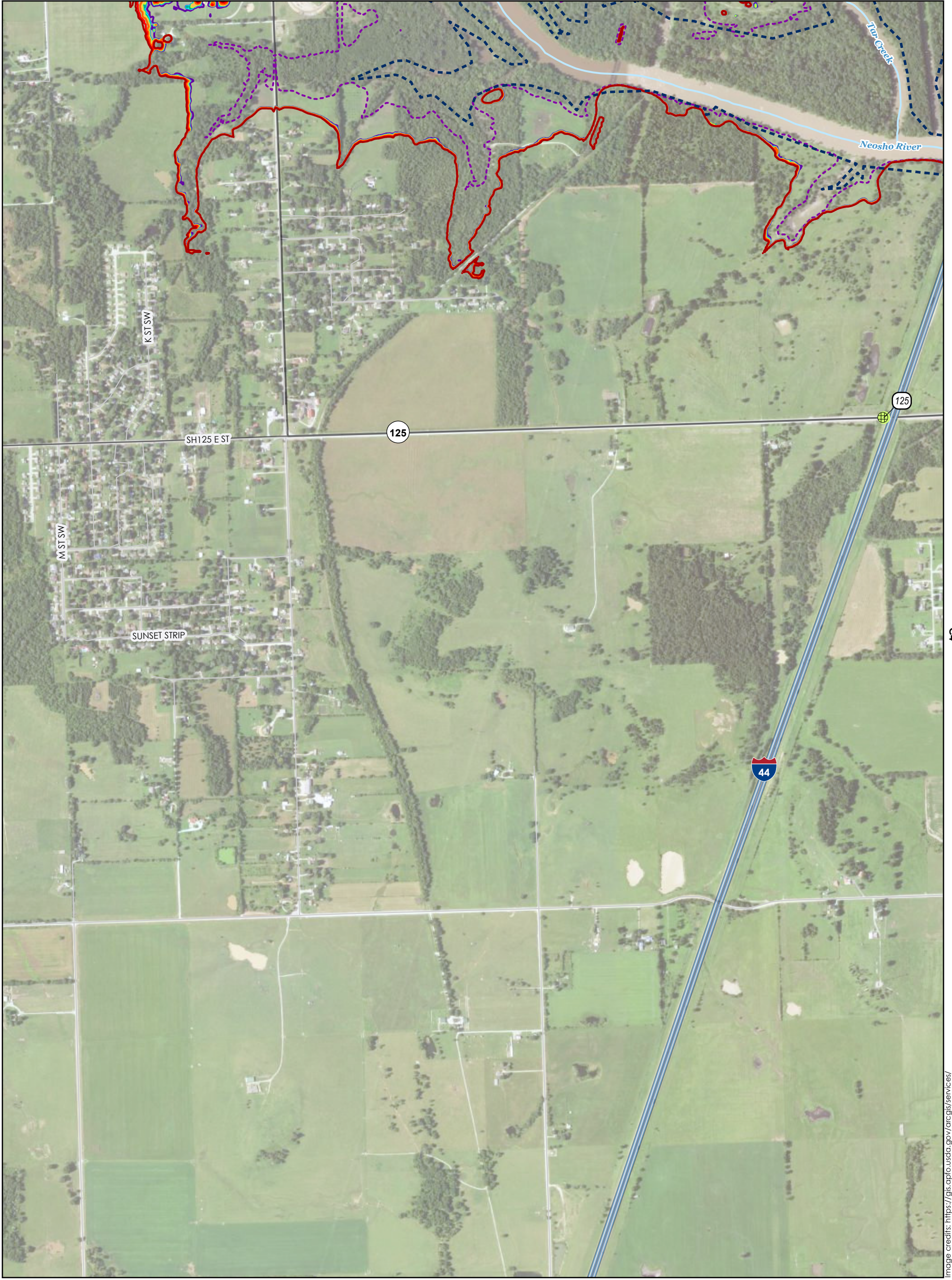
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C4**

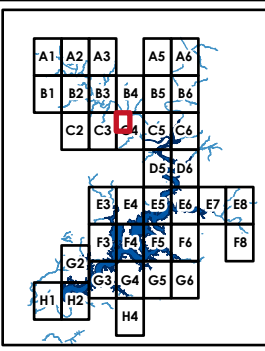
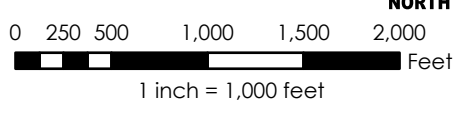
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

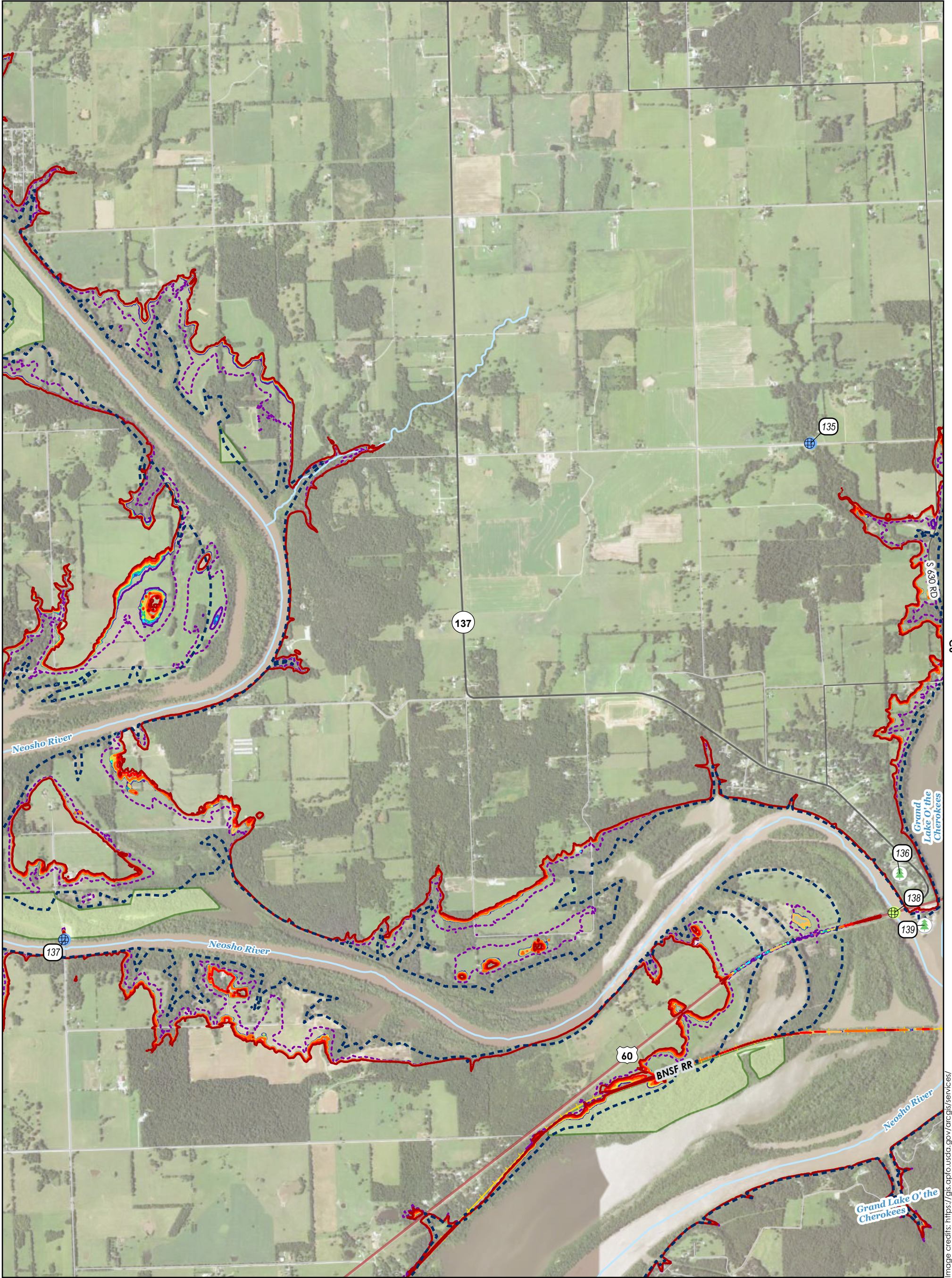
**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C4-1**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022

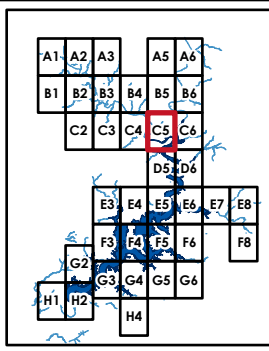


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH** ↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

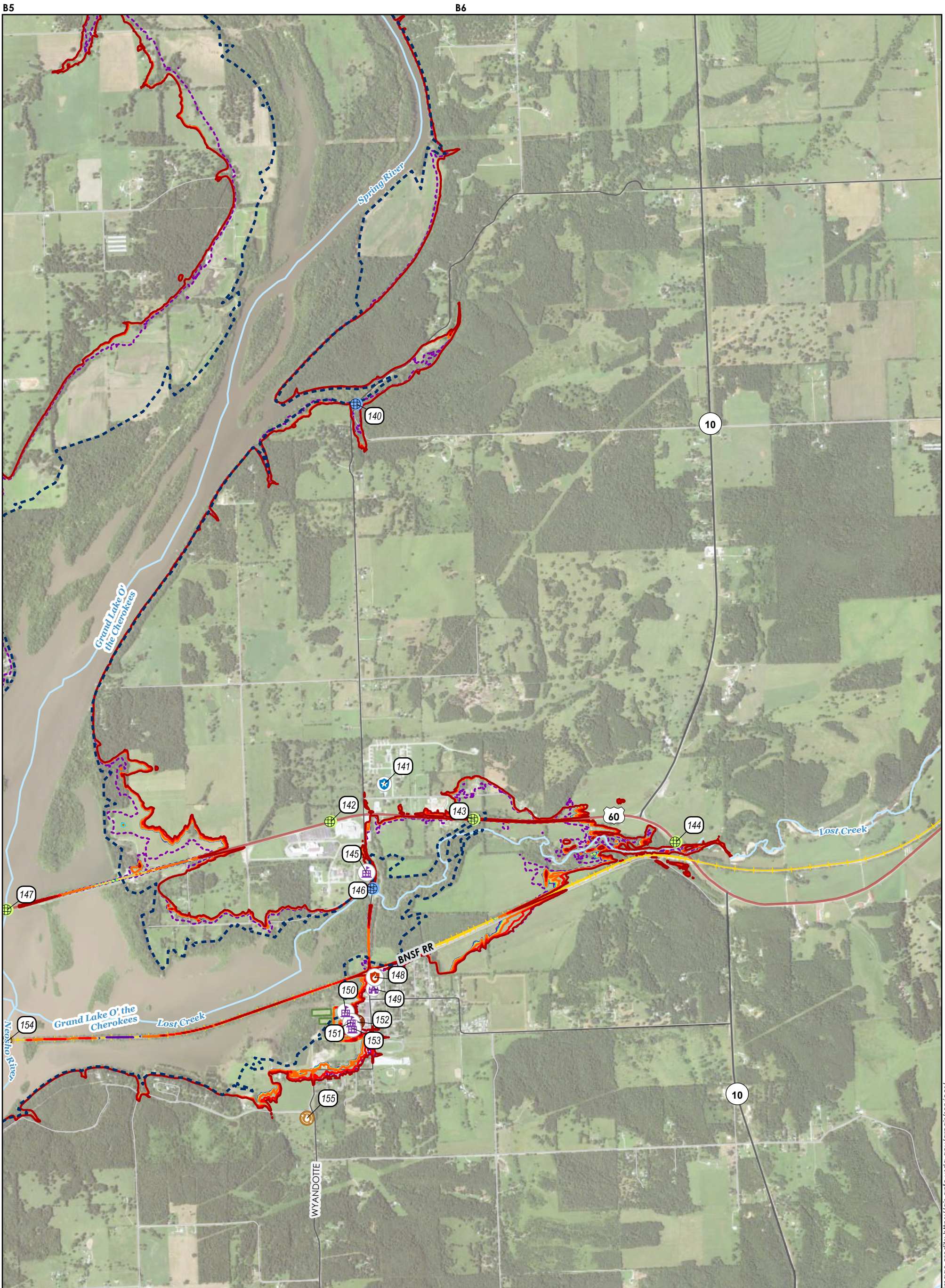
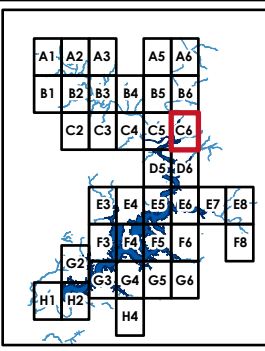
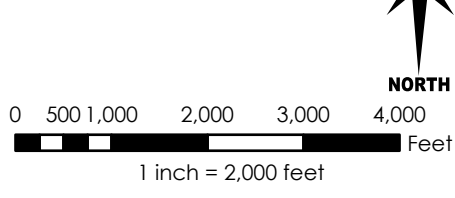


Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

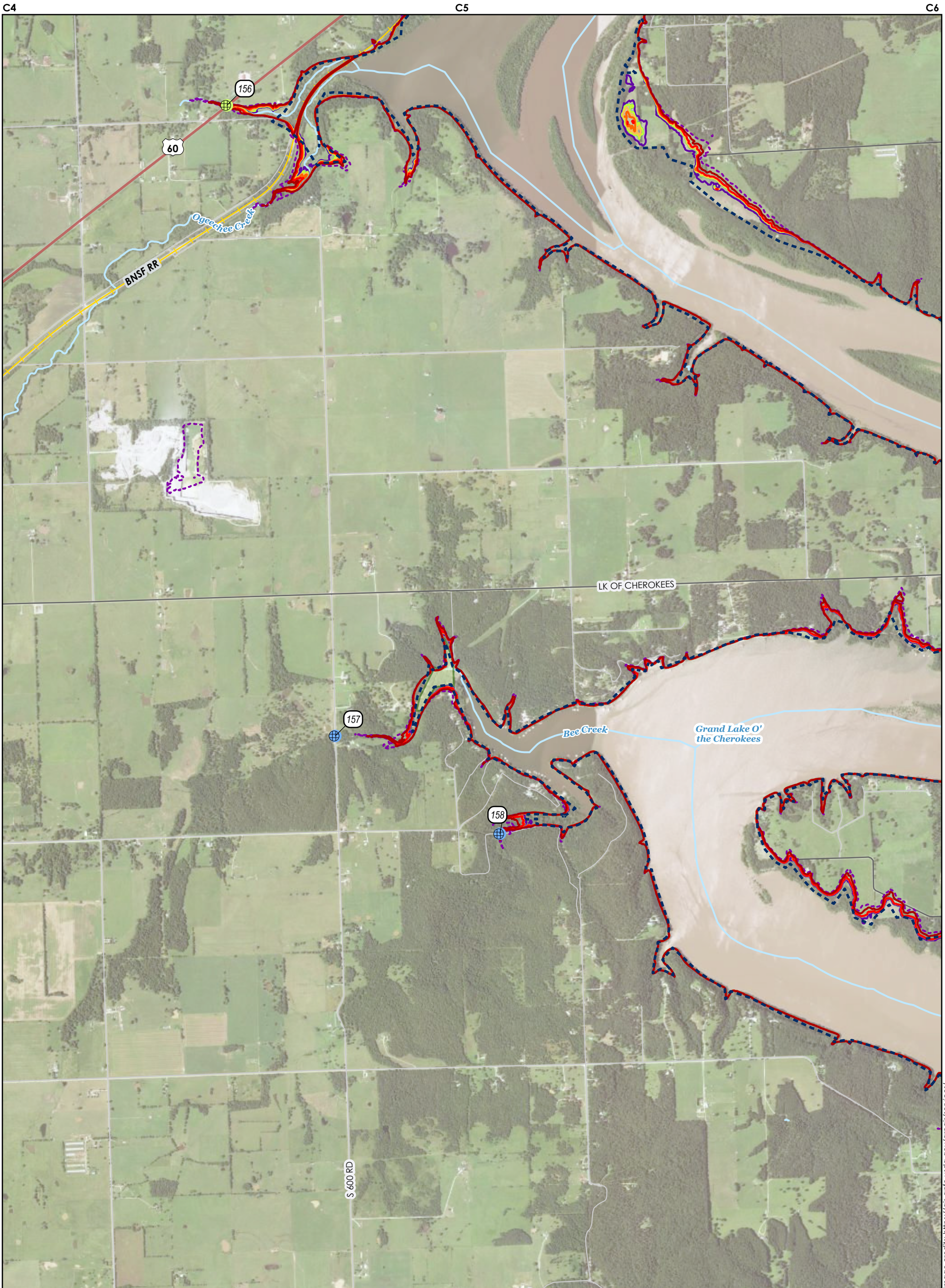
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
**GRAND RIVER DAM AUTHORITY**

**MAP: C6**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022



### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)

NORTH  
↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet

**SEP 1993 MAX INUNDATION**

<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD
<span style="color: yellow;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD
<span style="color: lightgreen;">█</span> 745.0 ft PD	<span style="color: purple;">█</span> 742.0 ft PD
<span style="color: limegreen;">█</span> 744.5 ft PD	<span style="color: darkblue;">█</span> 734.0 ft PD
<span style="color: teal;">█</span> 744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- + Railroad
- Stream
- - - Flowage Easements
- - - Project Boundary
- █ GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: D5**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.dplpbo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019

C5

C6

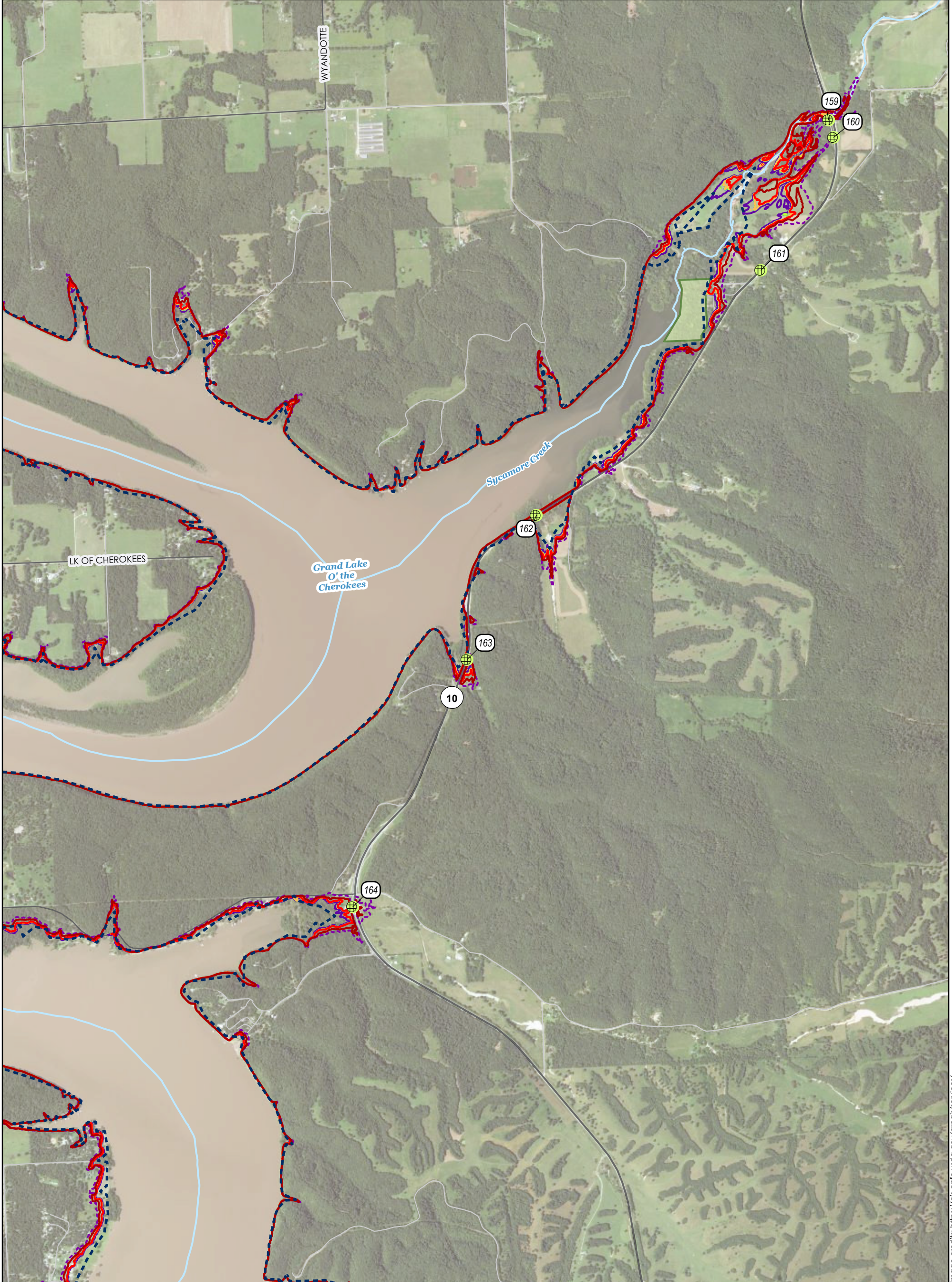
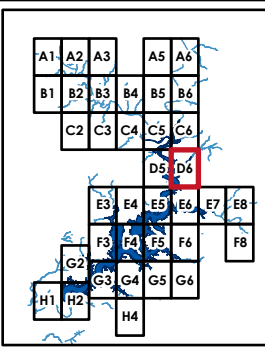
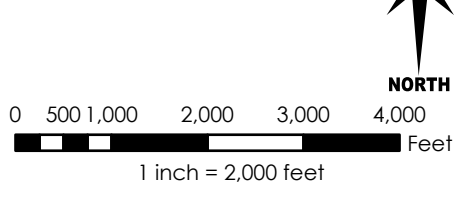


Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend  
ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

**MAP: D6**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



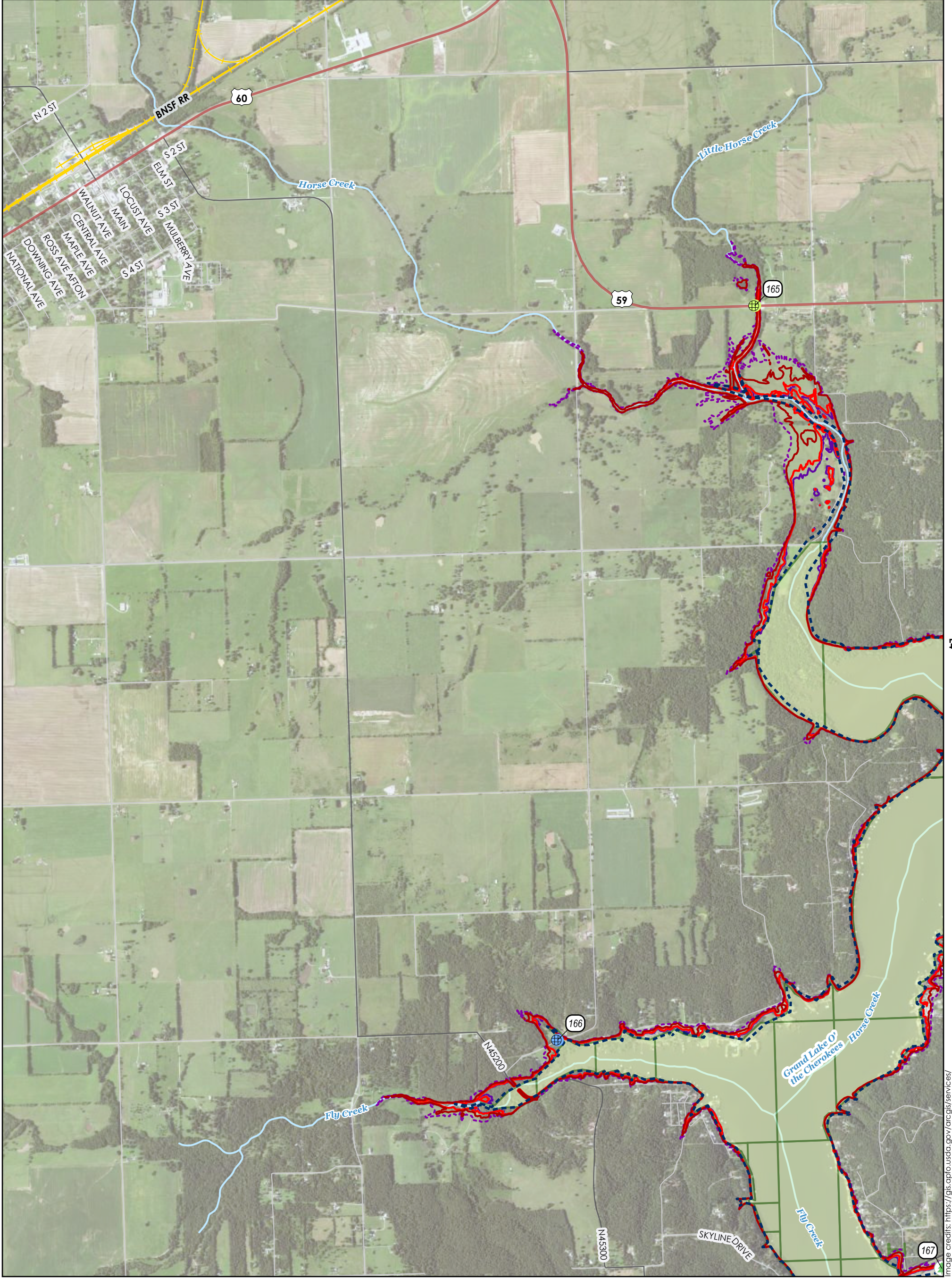


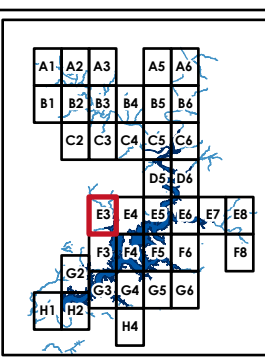
Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: E3**

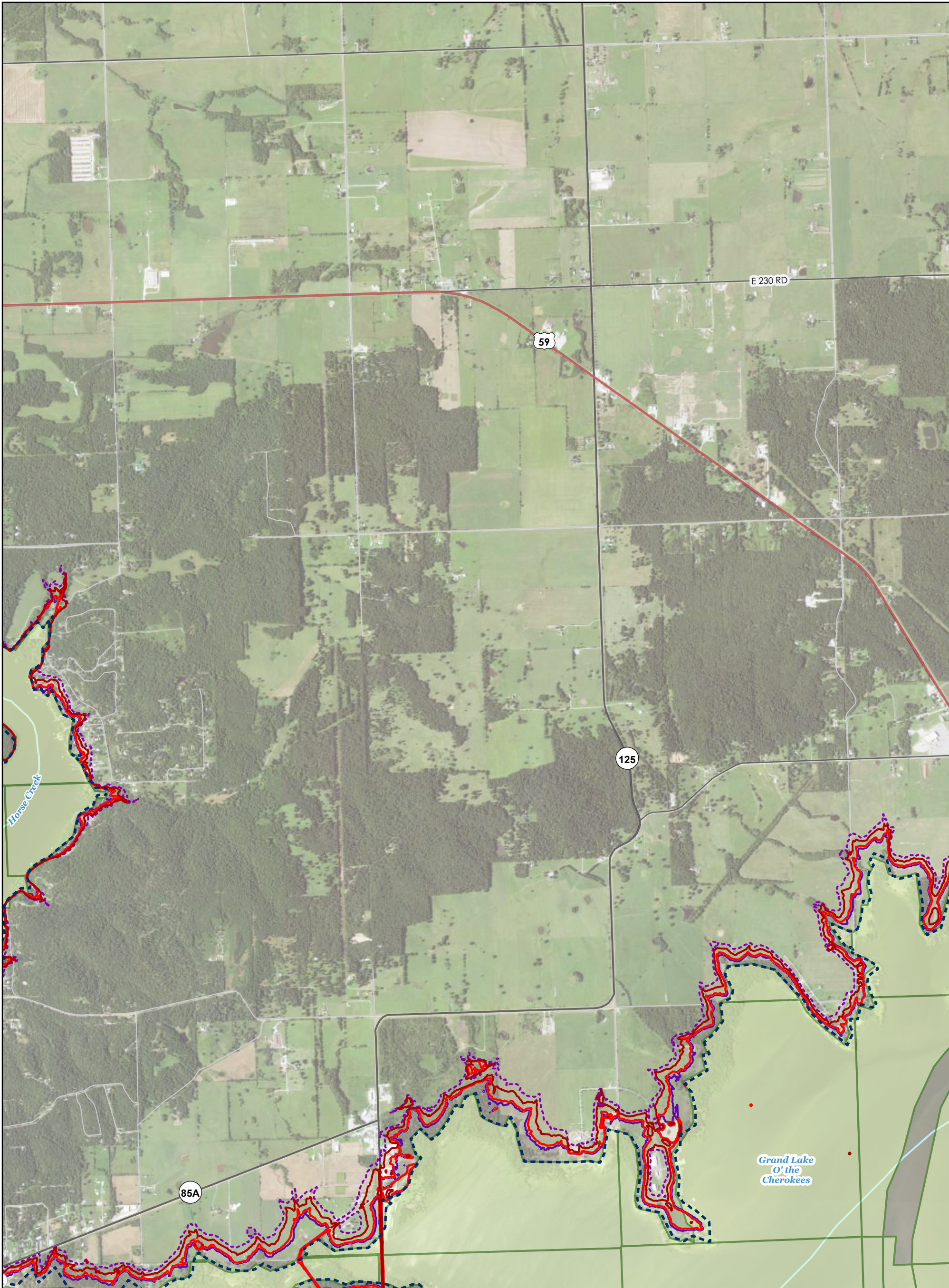
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

D3

D4

D5



F3

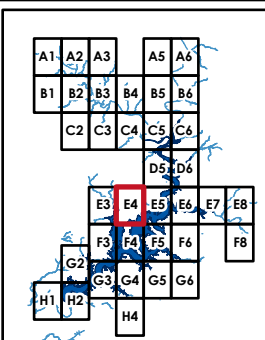
F4

F5

**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000  
Feet  
1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

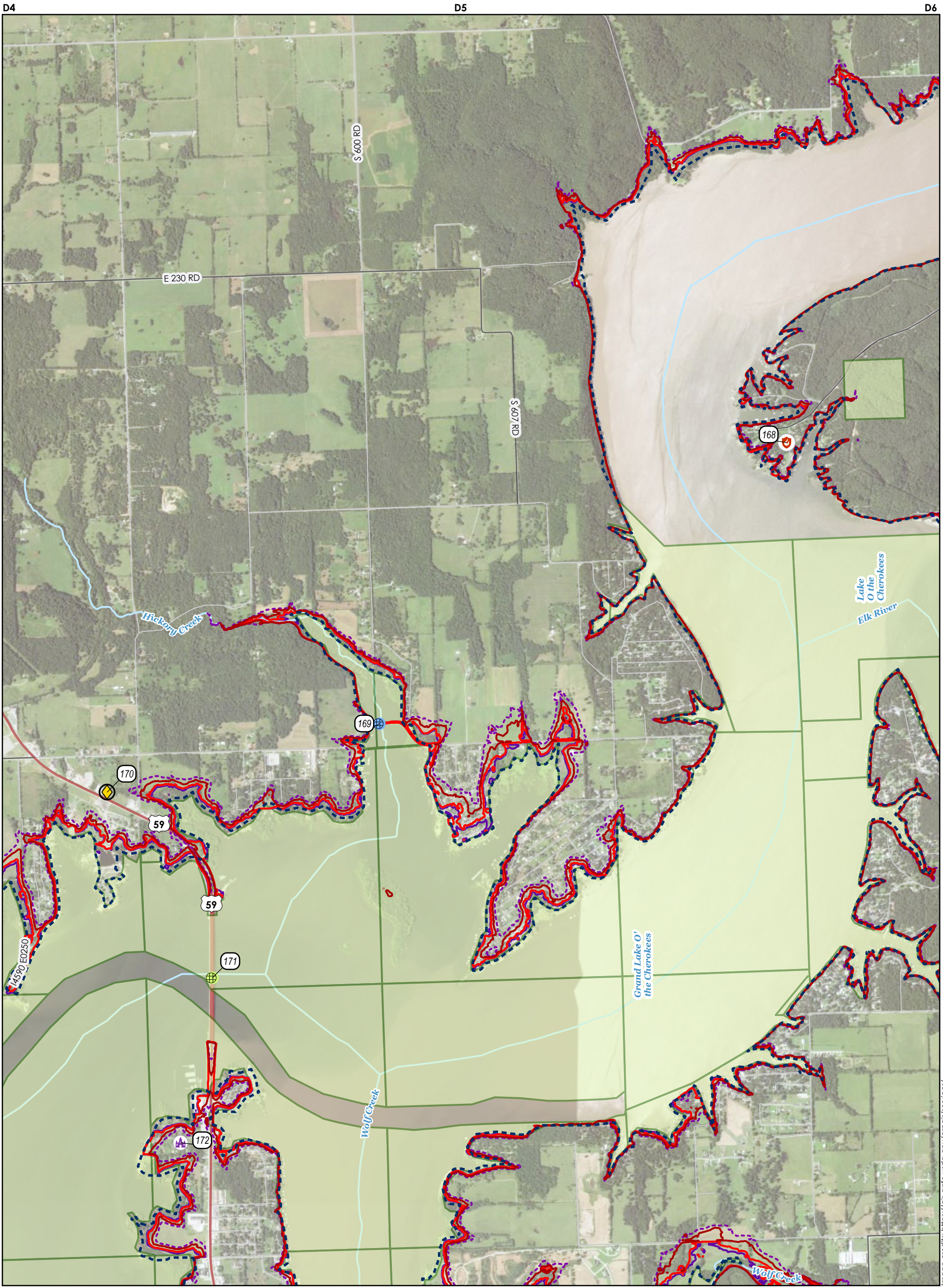
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: E4**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

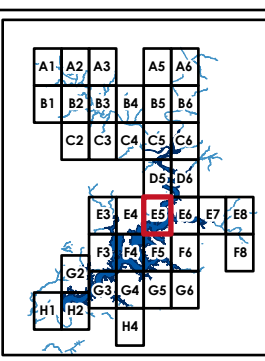


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH** ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	—+— Railroad
State Highway	— Stream
US Highway	--- Flowage Easements
Major Collector	- - - Project Boundary
Local Road	■ GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

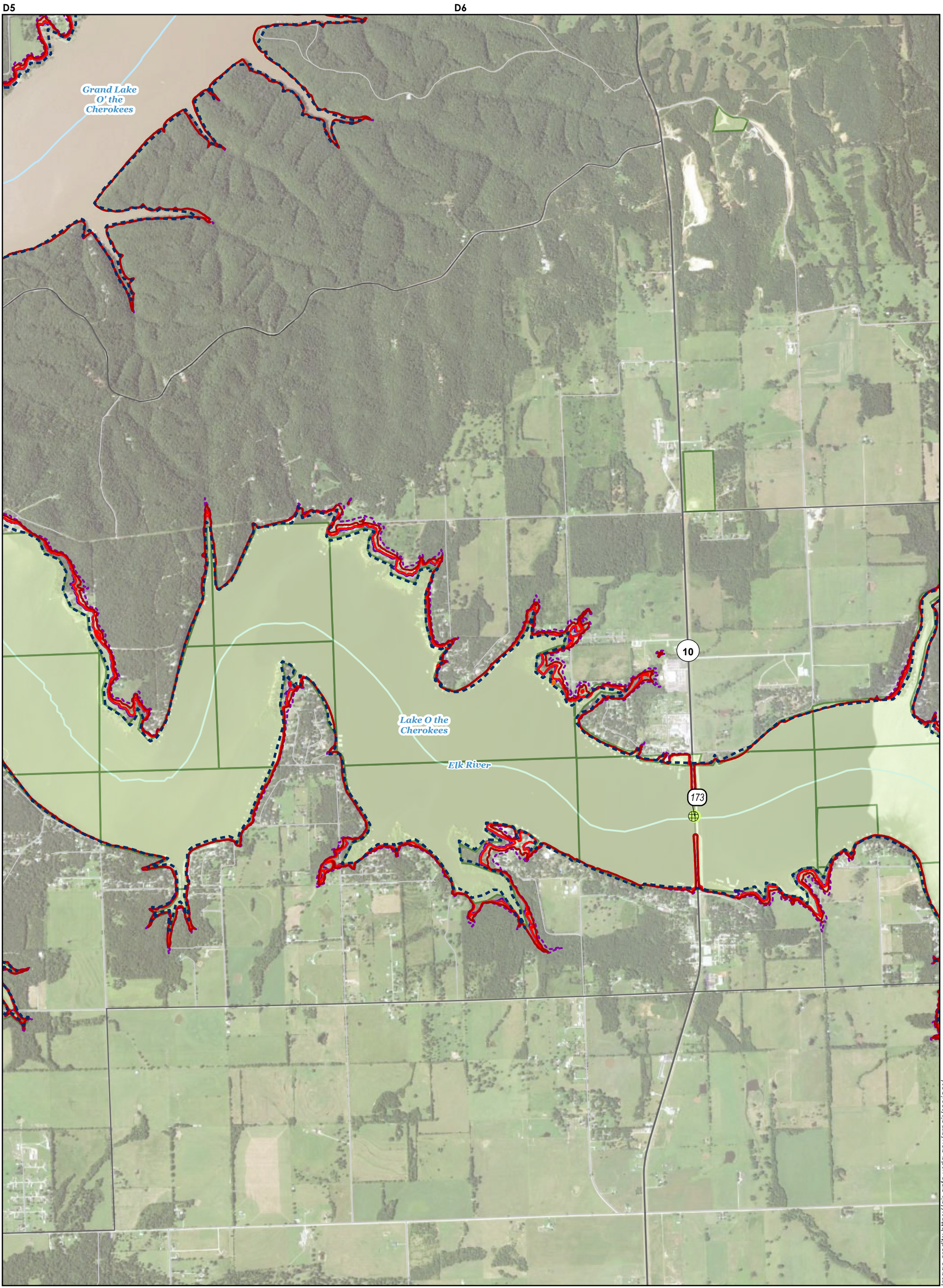
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: E5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

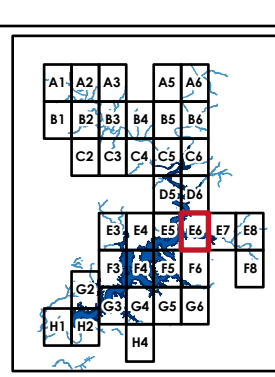


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: E6**

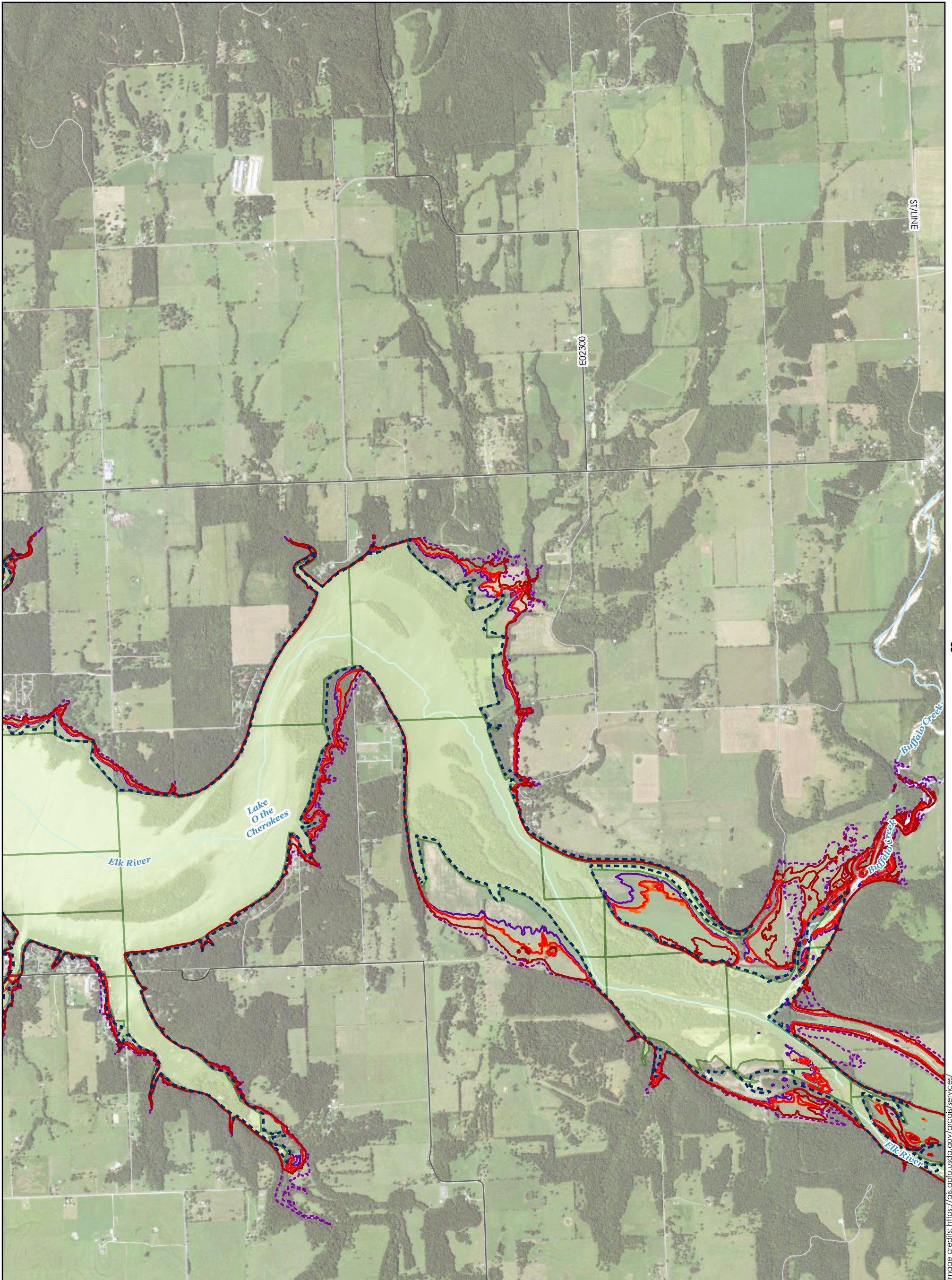
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

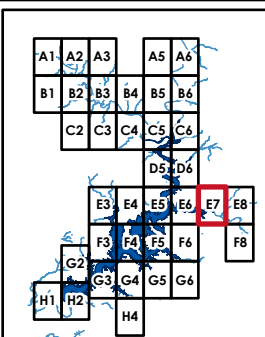
Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000 Feet  
1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

- 757.0 ft PD
- 753.0 ft PD
- 749.0 ft PD
- 745.0 ft PD
- 744.5 ft PD
- 744.0 ft PD
- 743.5 ft PD
- 743.0 ft PD
- 742.5 ft PD
- 742.0 ft PD
- 734.0 ft PD

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

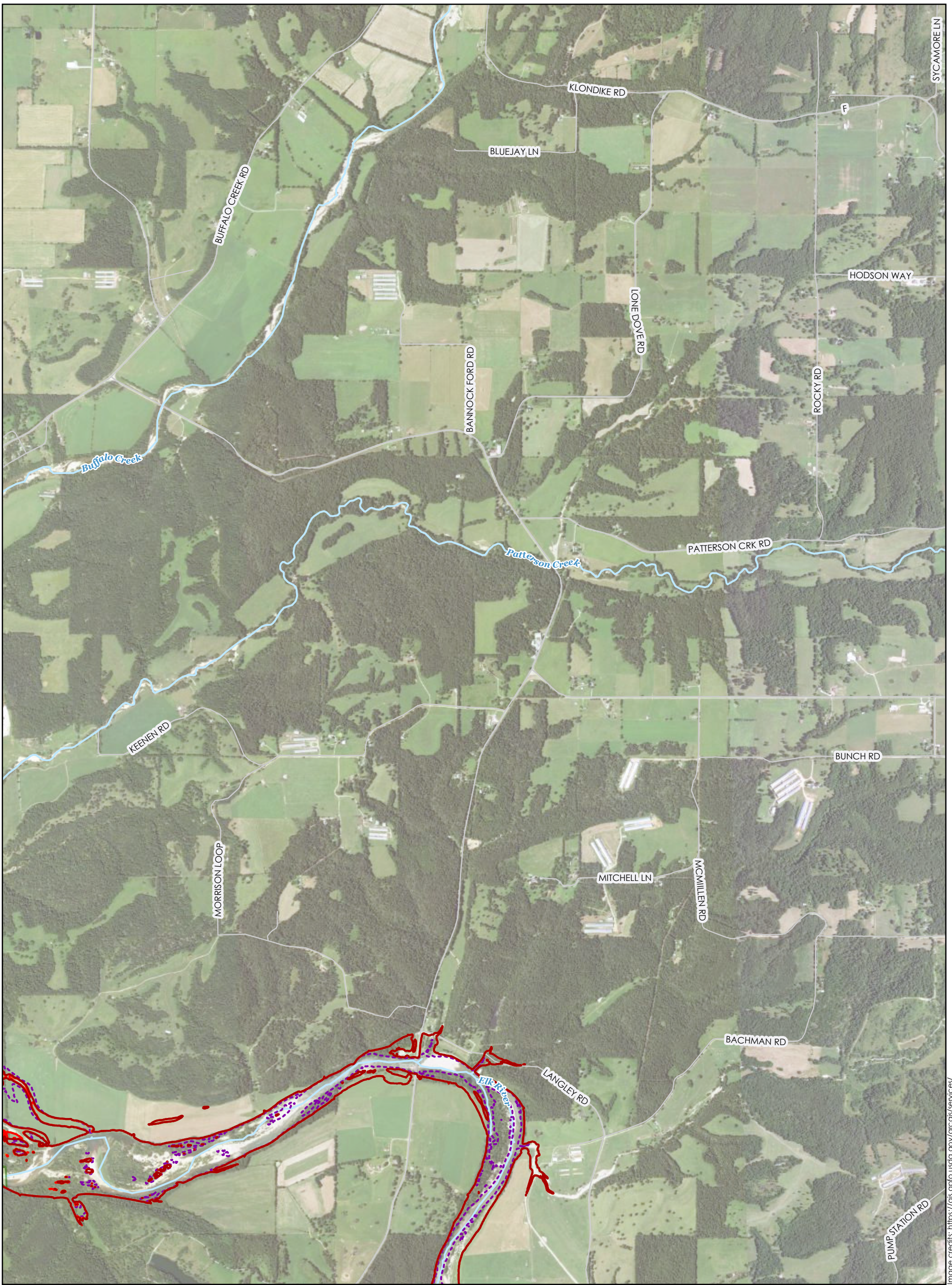
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: E7**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

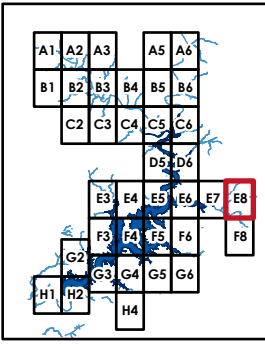
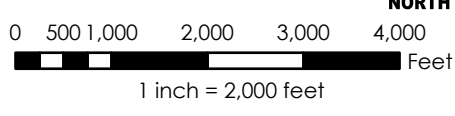
**FERC No. 1494**  
September 2022



F7

F8

### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)



#### SEP 1993 MAX INUNDATION

- █ 757.0 ft PD
- █ 753.0 ft PD
- █ 749.0 ft PD
- █ 745.0 ft PD
- █ 744.5 ft PD
- █ 744.0 ft PD
- █ 743.5 ft PD
- █ 743.0 ft PD
- █ 742.5 ft PD
- █ 742.0 ft PD
- █ 734.0 ft PD

#### Legend

##### ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- + Railroad
- Stream
- - - Flowage Easements
- - - Project Boundary
- █ GRDA Ownership

#### MAP AND LEGEND NOTES

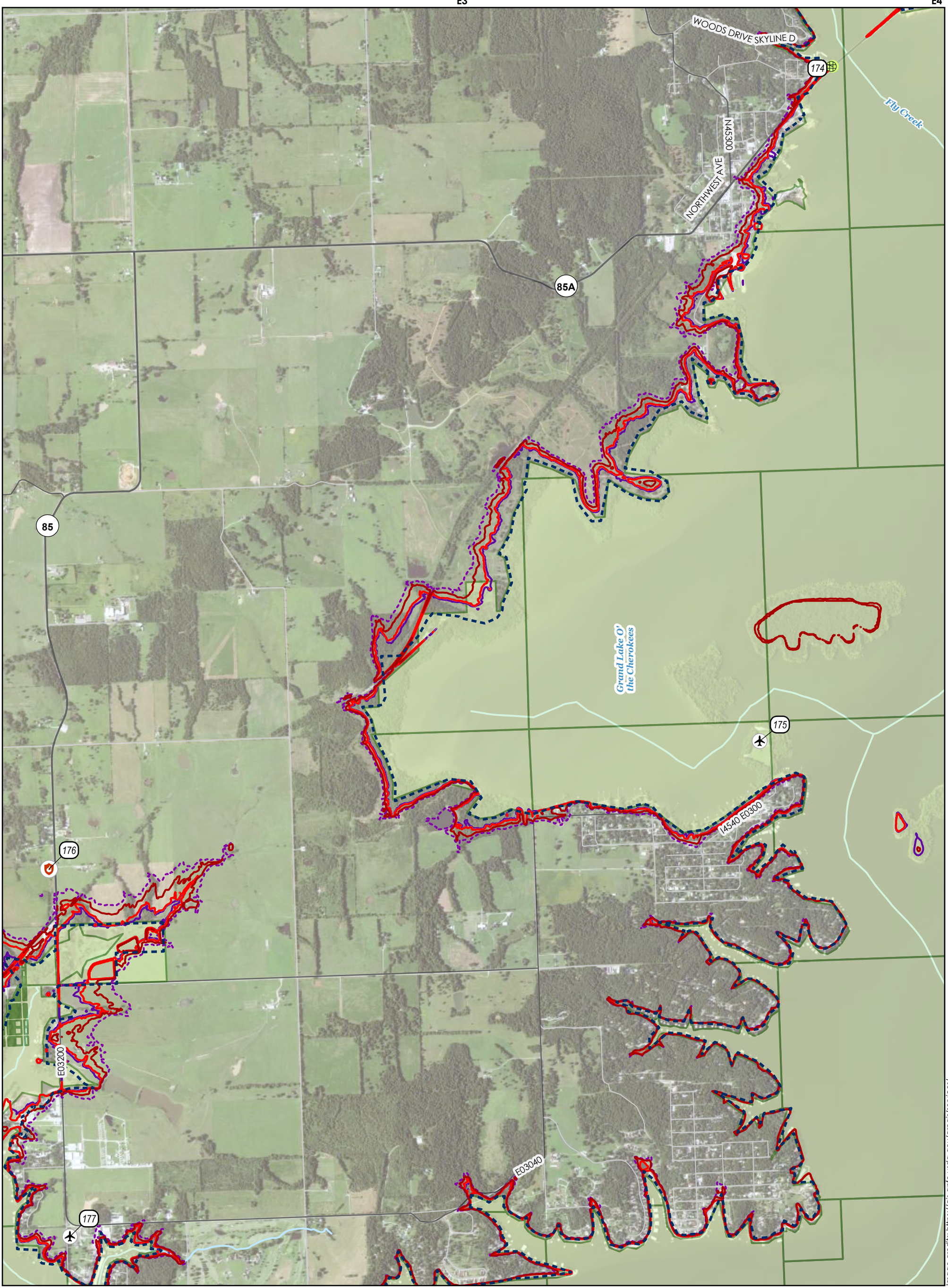
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

### PENSACOLA DAM GRAND RIVER DAM AUTHORITY

#### MAP: E8

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019

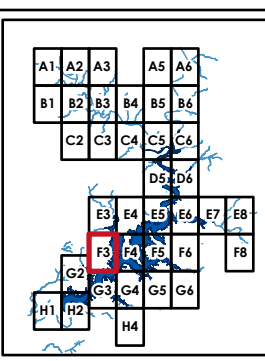


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH** ↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	Symbol
Interstate	Blue dashed line
State Highway	Grey dashed line
US Highway	Red dashed line
Major Collector	Black dashed line
Local Road	Thin grey line
Railroad	Yellow cross symbol
Stream	Blue line
Flowage Easements	Red dashed line
Project Boundary	Blue dashed line
GRDA Ownership	Green dashed line

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

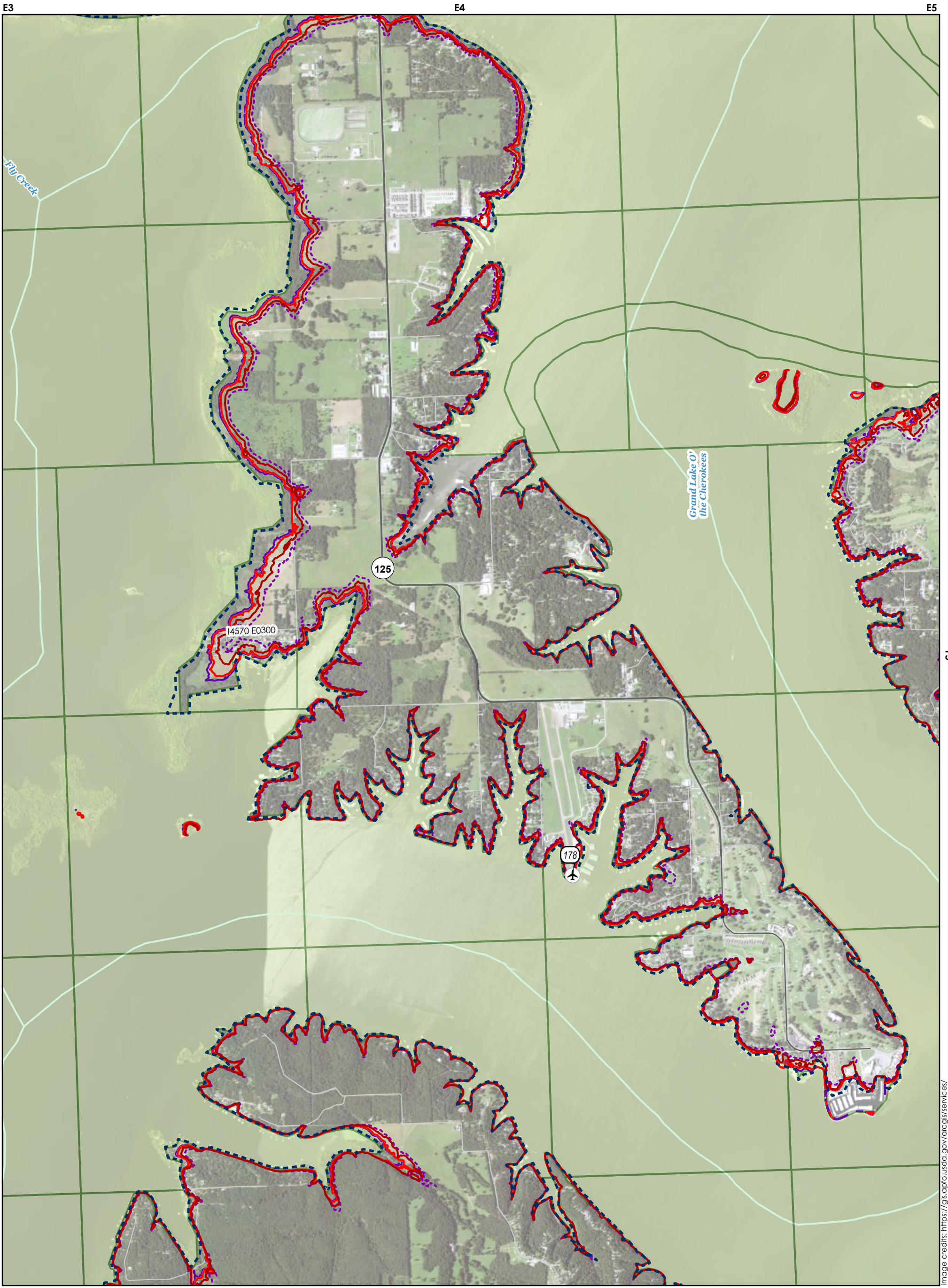
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: F3**

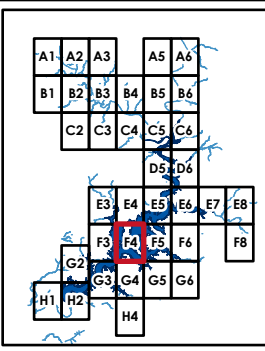
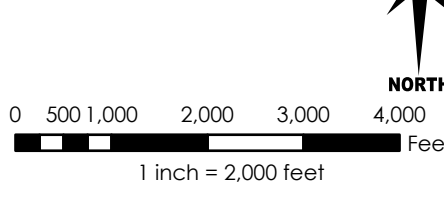
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend  
ROAD CLASS**

Interstate	Major Collector
State Highway	Local Road
US Highway	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

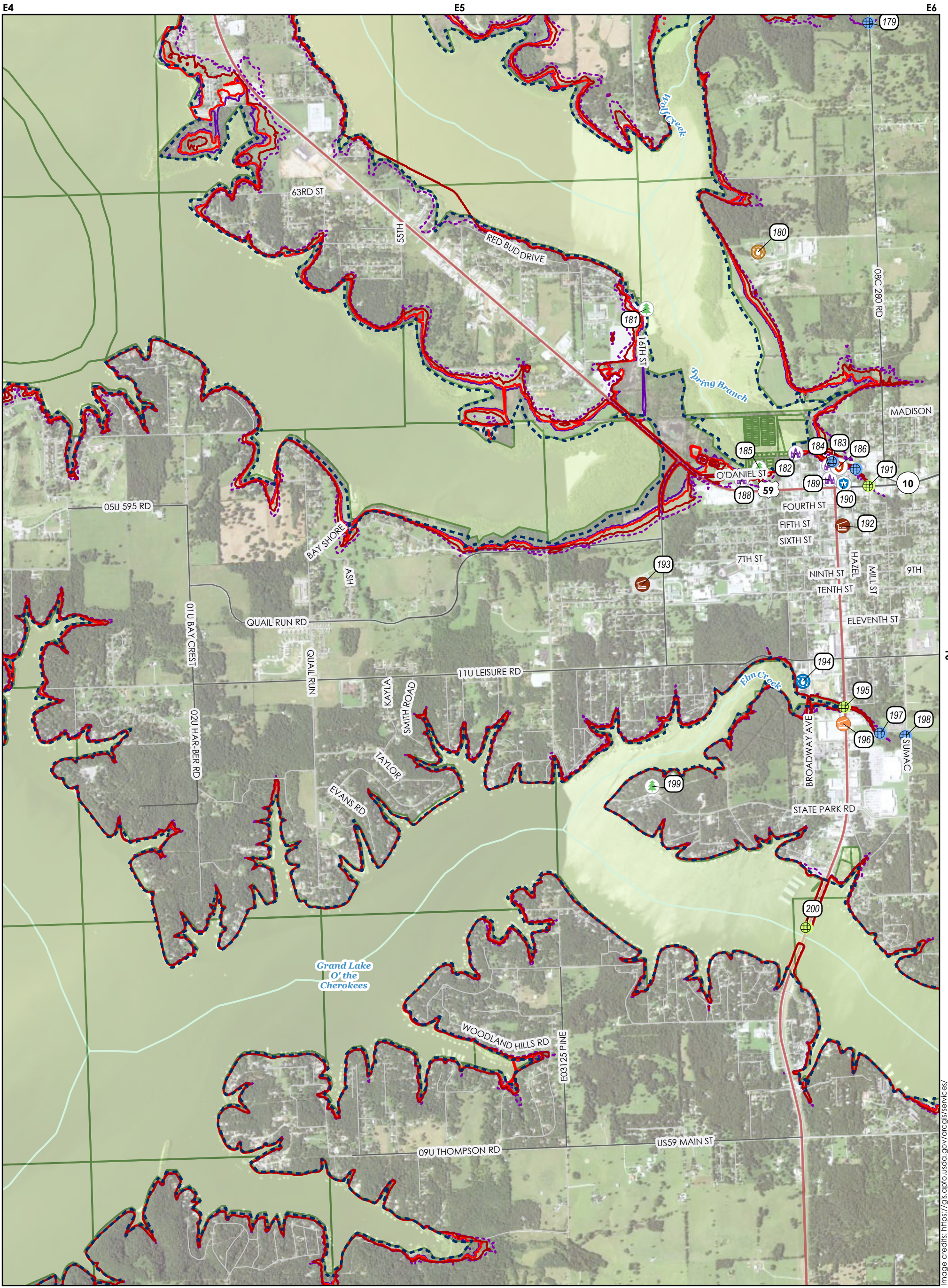
**MAP: F4**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



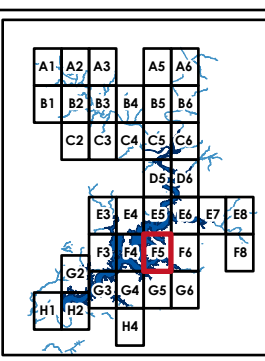


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

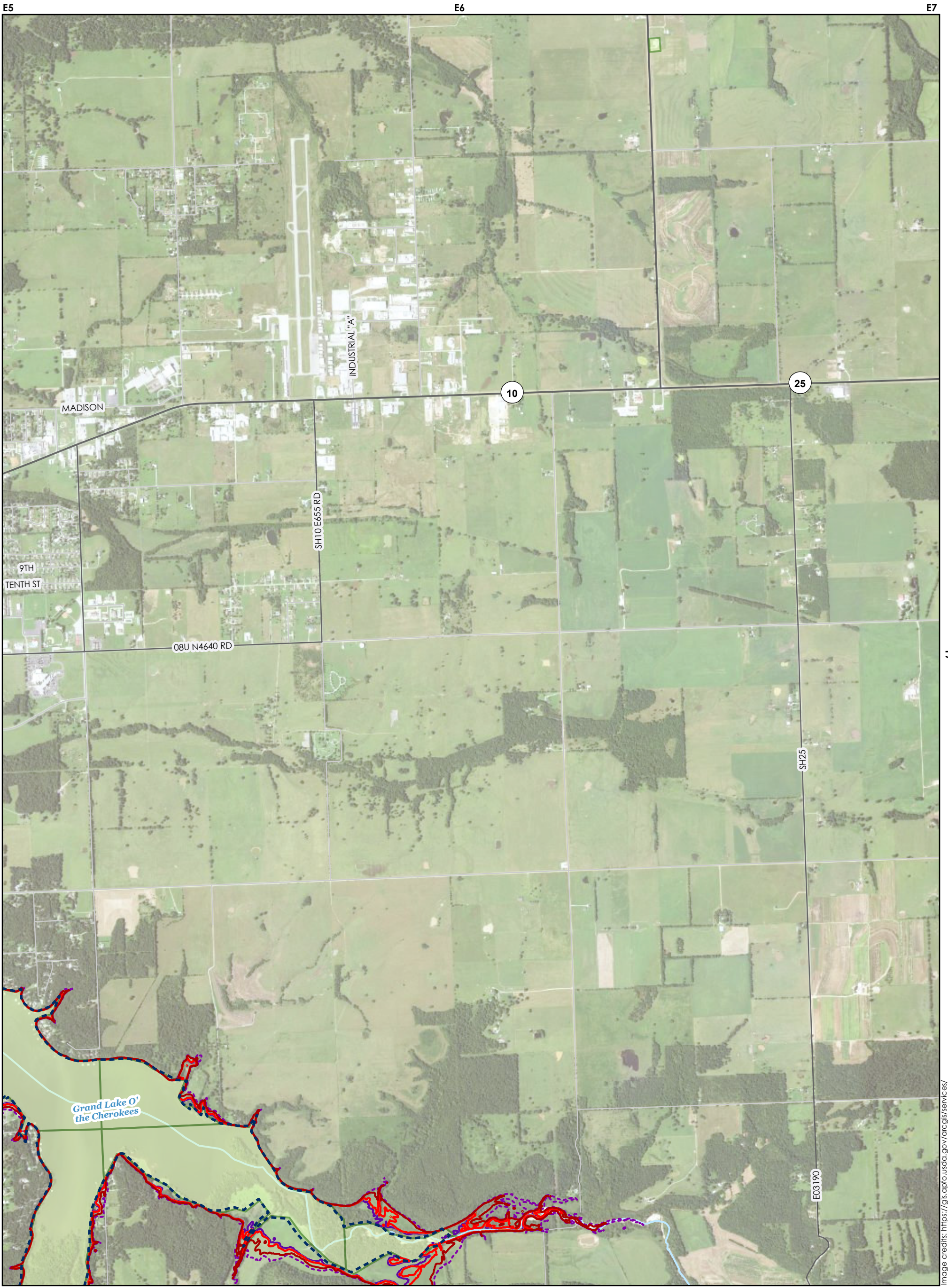
**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

**MAP: F5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

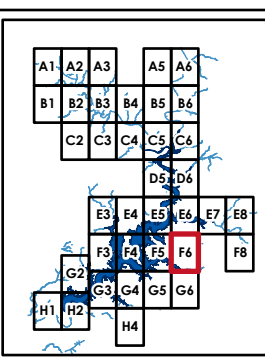


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	Symbol
Interstate	Blue line with double red dashes
State Highway	Black line with double red dashes
US Highway	Red line with double red dashes
Major Collector	Grey line with double red dashes
Local Road	Thin grey line
Railroad	Yellow line with cross-ticks
Stream	Blue line
Flowage Easements	Dashed purple line
Project Boundary	Dashed blue line
GRDA Ownership	Green shaded area

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: F6**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

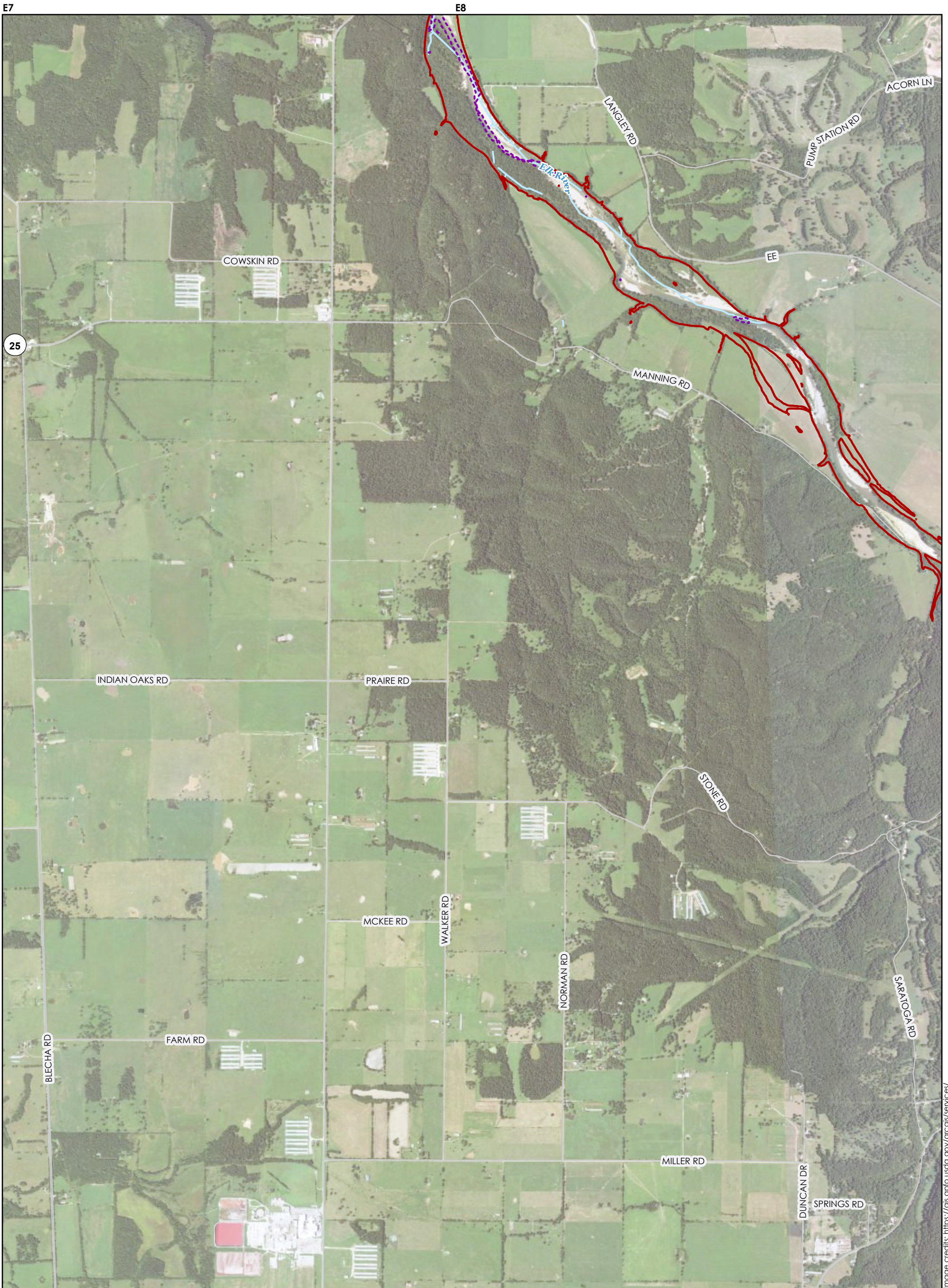


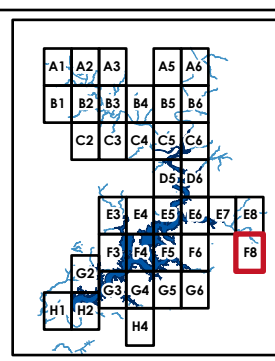
Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH** ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	Symbol
Interstate	Blue line with double red dashes
State Highway	Red line with white dashes
US Highway	Red line with black dashes
Major Collector	Grey line with black dashes
Local Road	Grey line
Railroad	Yellow line with cross-ticks
Stream	Blue line
Flowage Easements	Blue dashed line
Project Boundary	Blue dotted line
GRDA Ownership	Green outline

**MAP AND LEGEND NOTES**

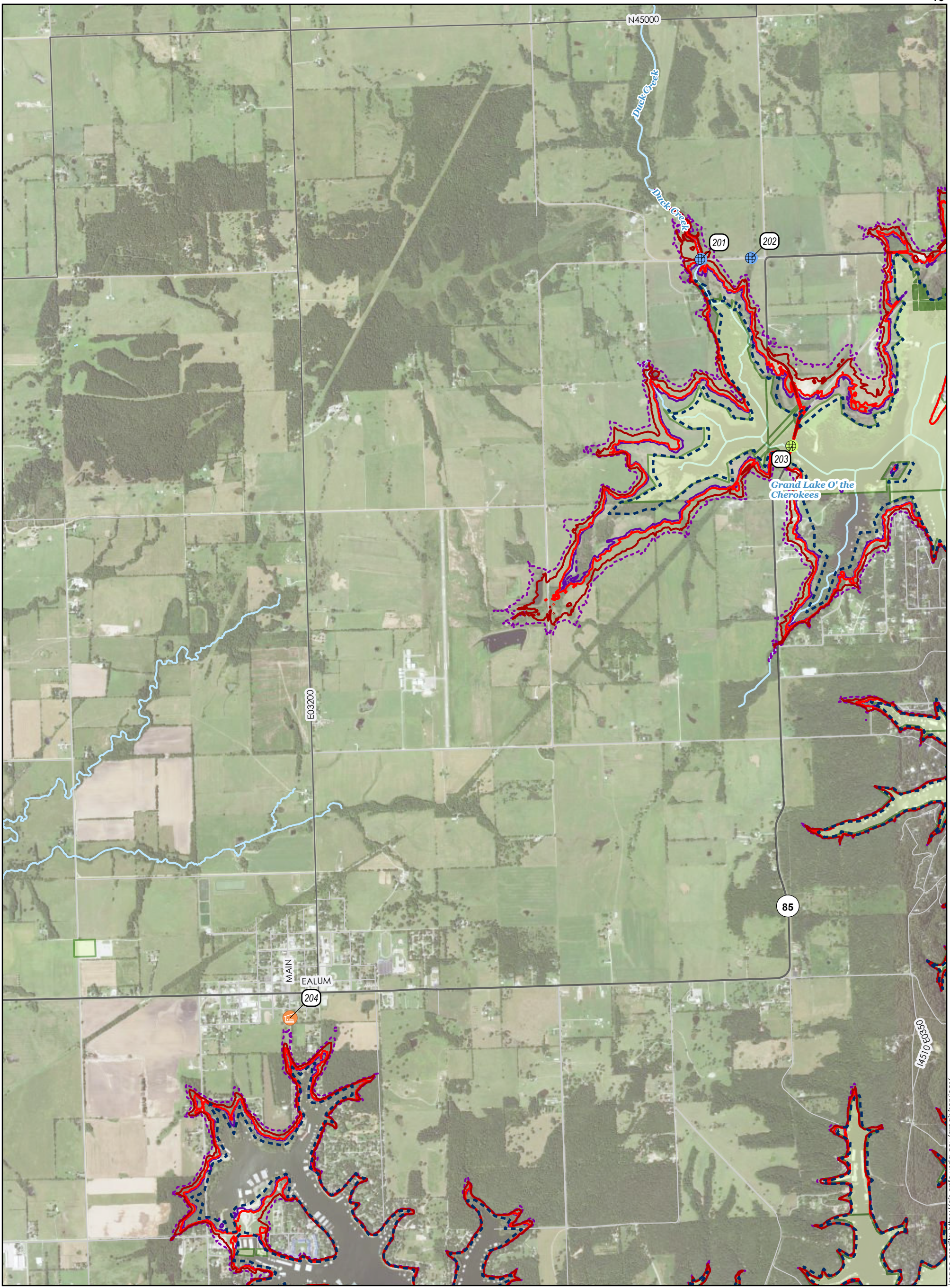
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

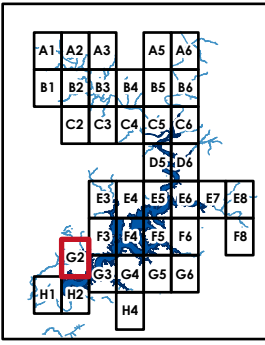
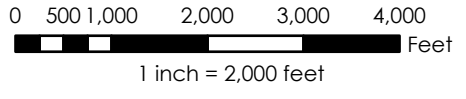
**MAP: F8**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

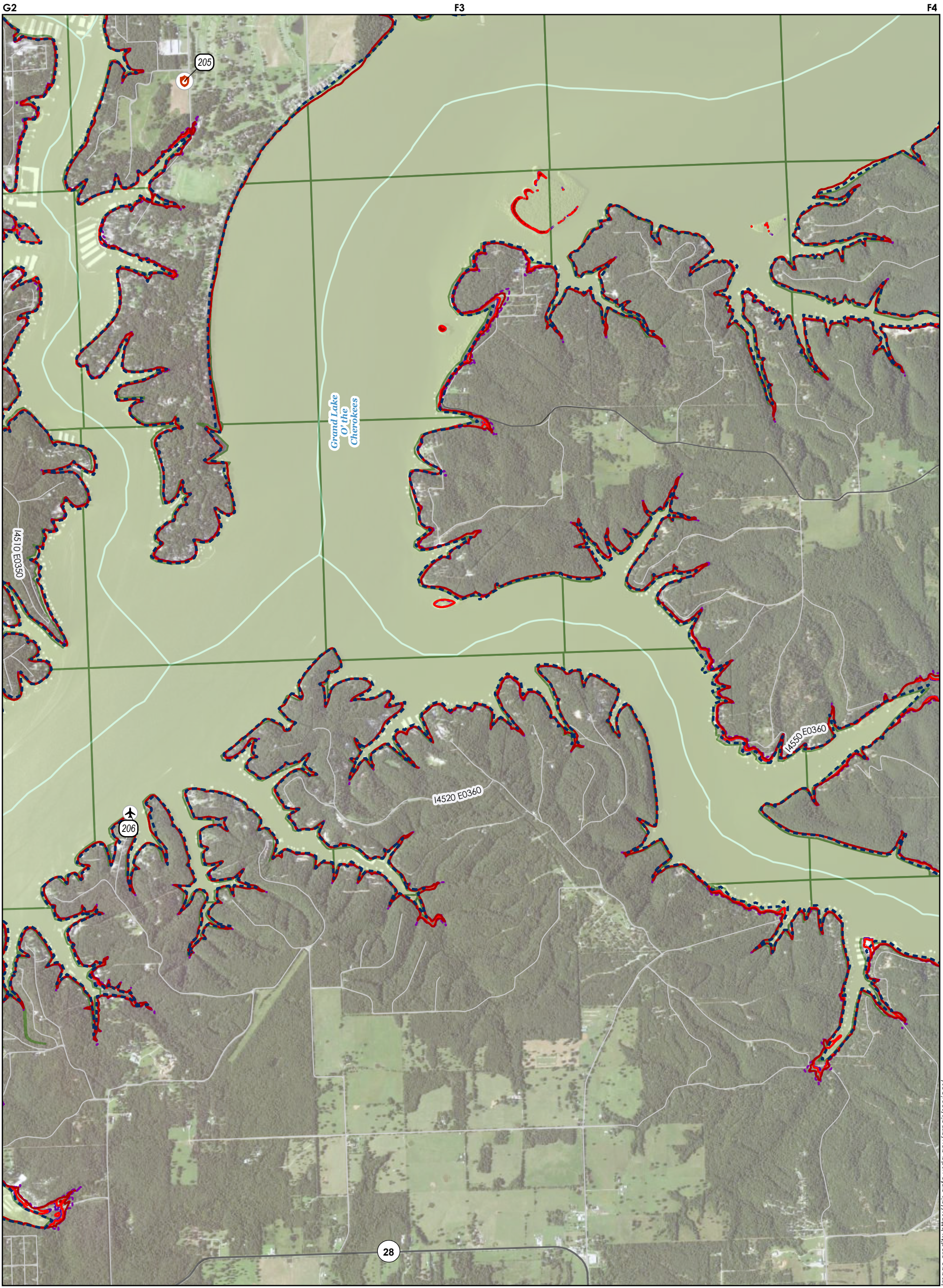
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

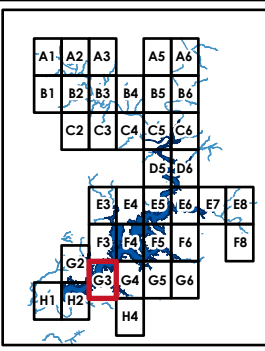
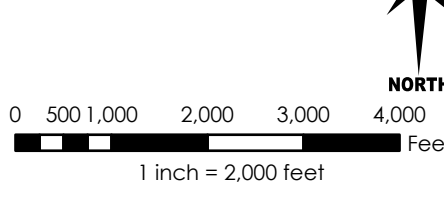
**MAP: G2**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend  
ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

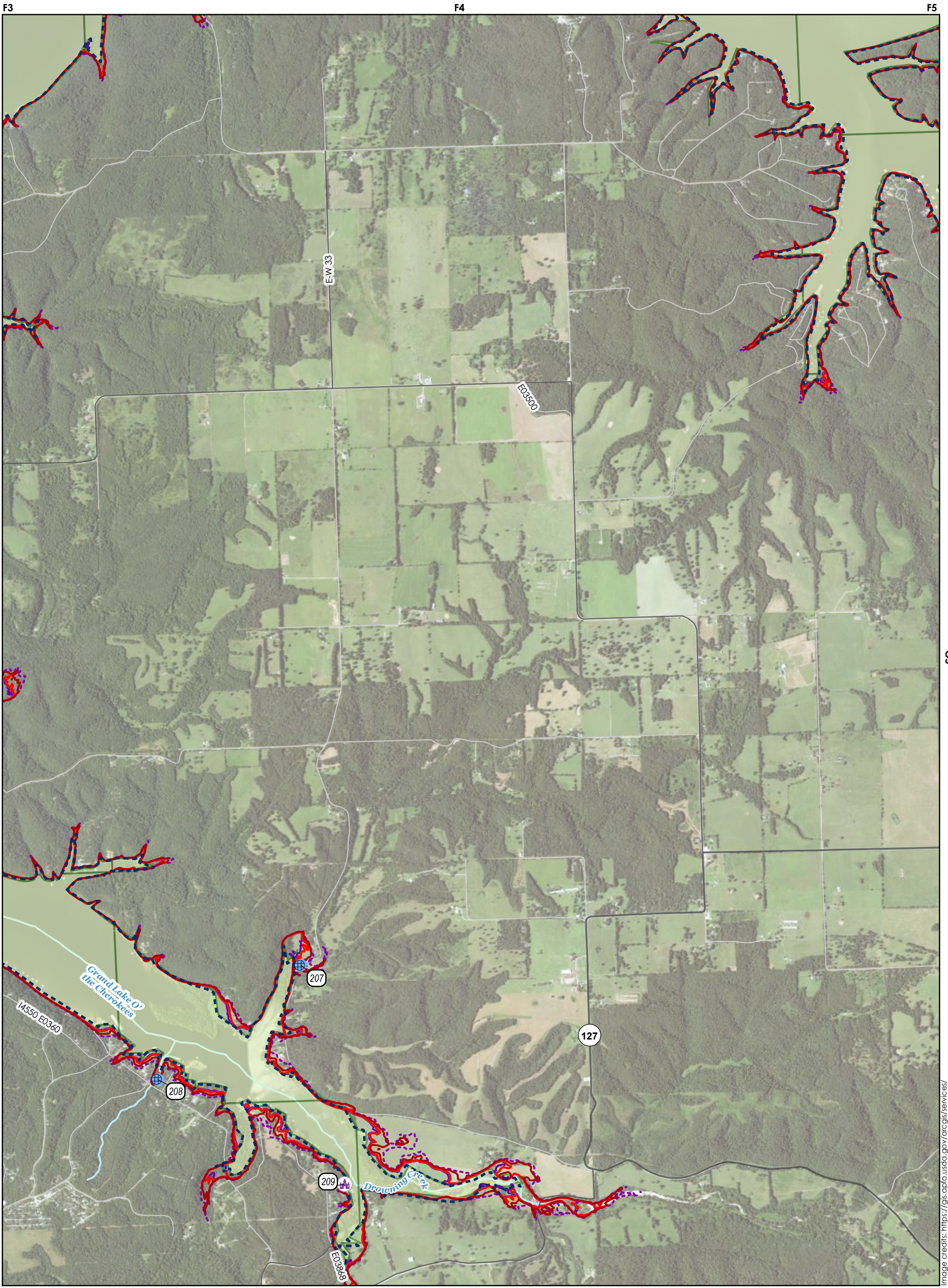
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: G3**

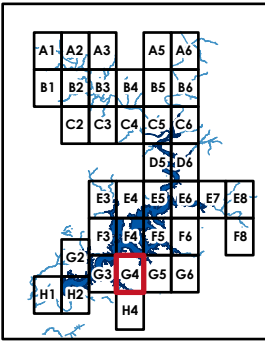
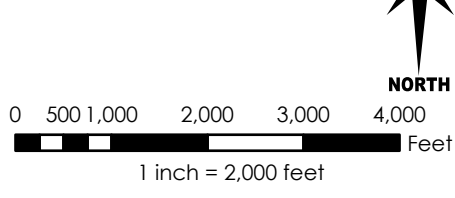
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

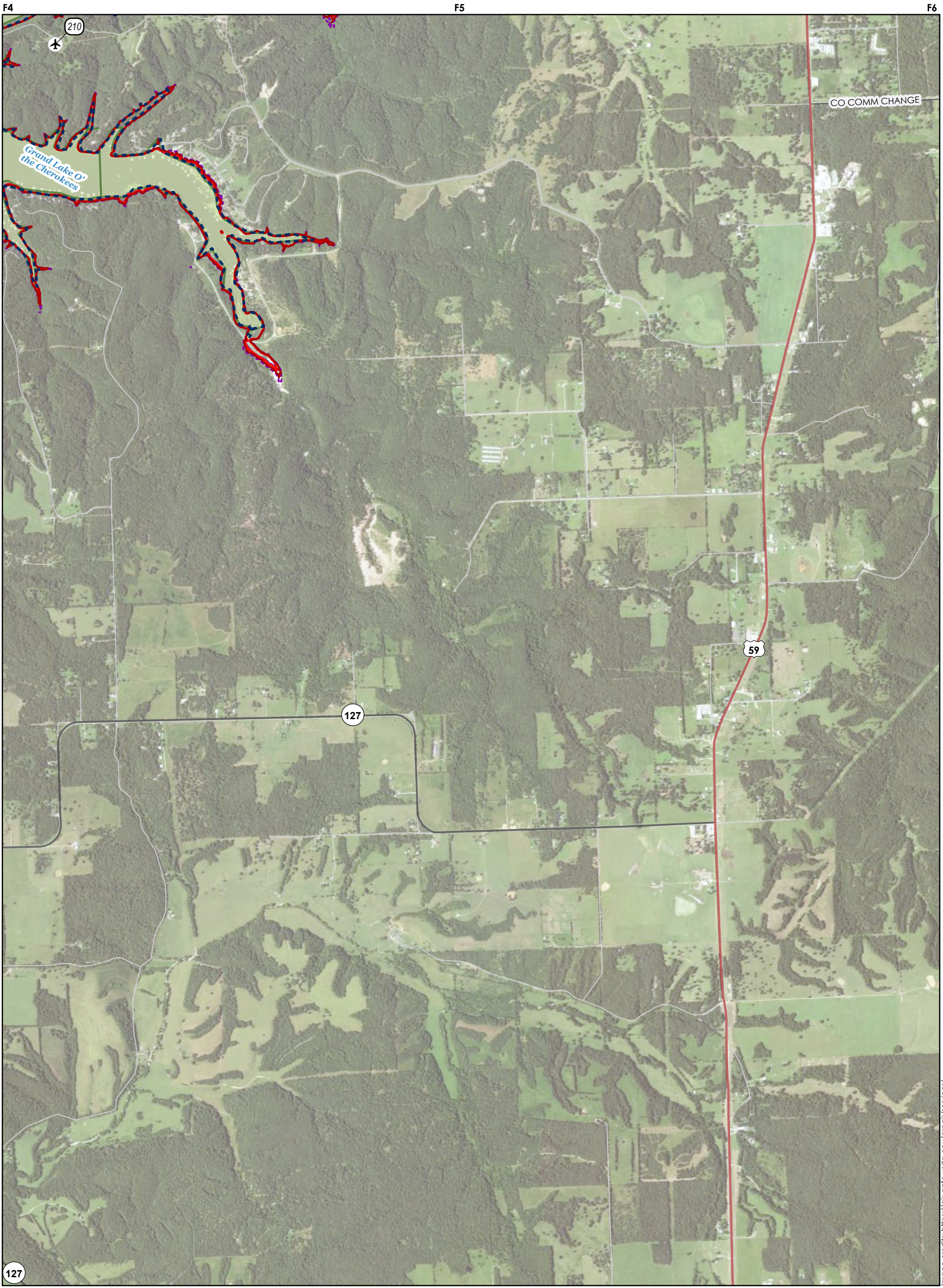
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: G4**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

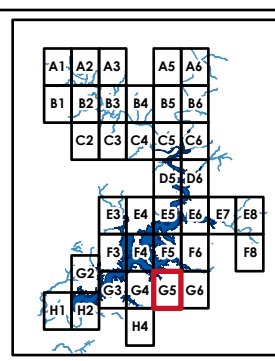


**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

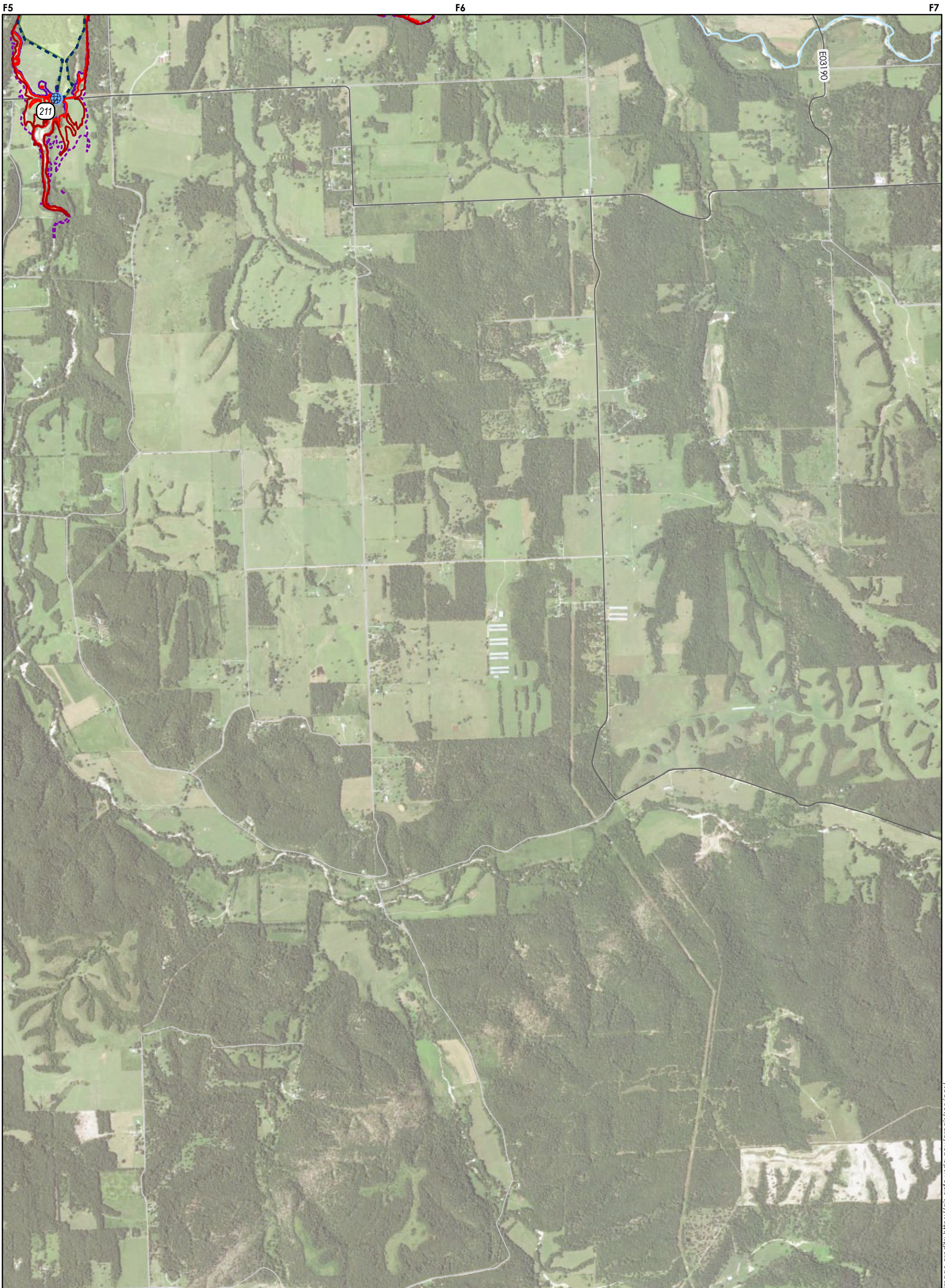
**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

**MAP: G5**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

**SEP 1993 MAX INUNDATION**

<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD
<span style="color: yellow;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD
<span style="color: lightgreen;">█</span> 745.0 ft PD	<span style="color: purple;">█</span> 742.0 ft PD
<span style="color: limegreen;">█</span> 744.5 ft PD	<span style="color: darkblue;">█</span> 734.0 ft PD
<span style="color: teal;">█</span> 744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: G6**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2014

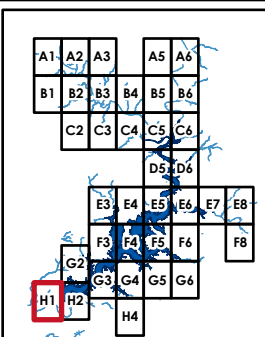




**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000  
Feet  
1 inch = 2,000 feet



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

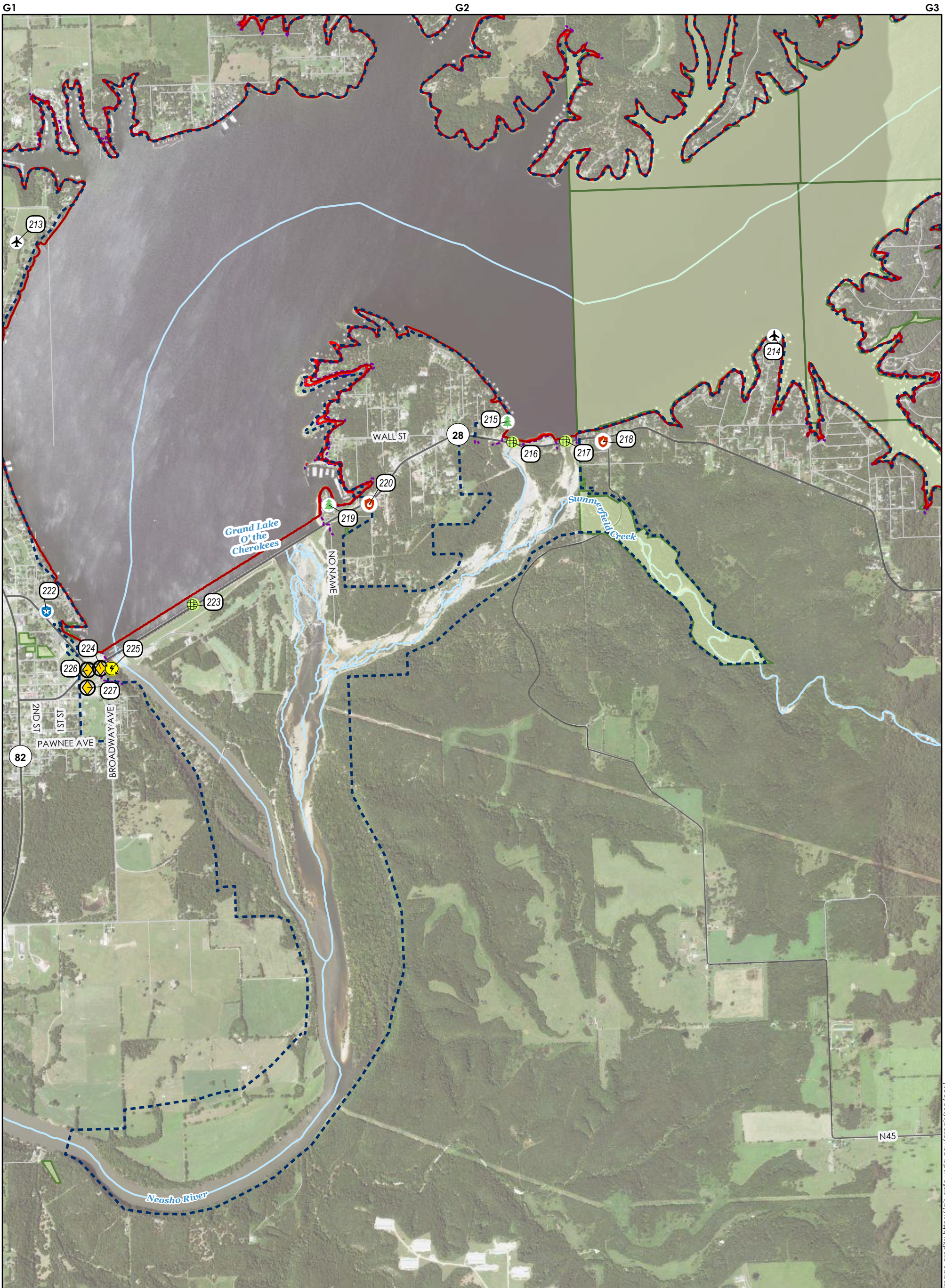
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

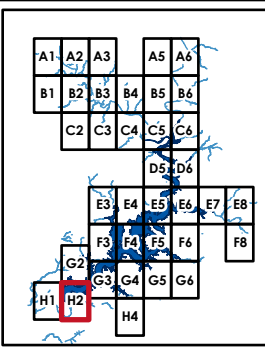
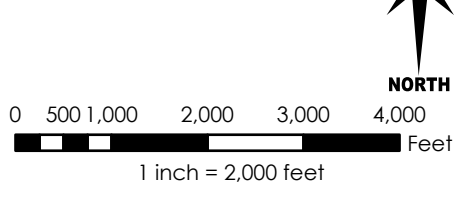
**MAP: H1**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**SEPTEMBER 1993  
INUNDATION SCENARIO  
(21-YEAR EVENT)**



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: H2**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

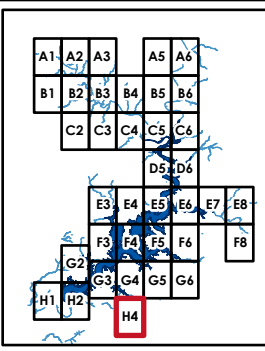
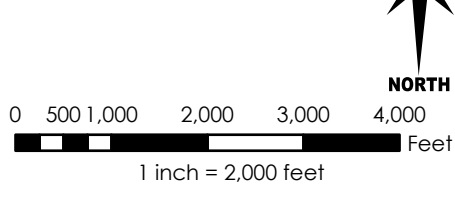
**FERC No. 1494**  
September 2022

Image credits: [https://gis.cplbo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.cplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

### SEPTEMBER 1993 INUNDATION SCENARIO (21-YEAR EVENT)



**SEP 1993 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

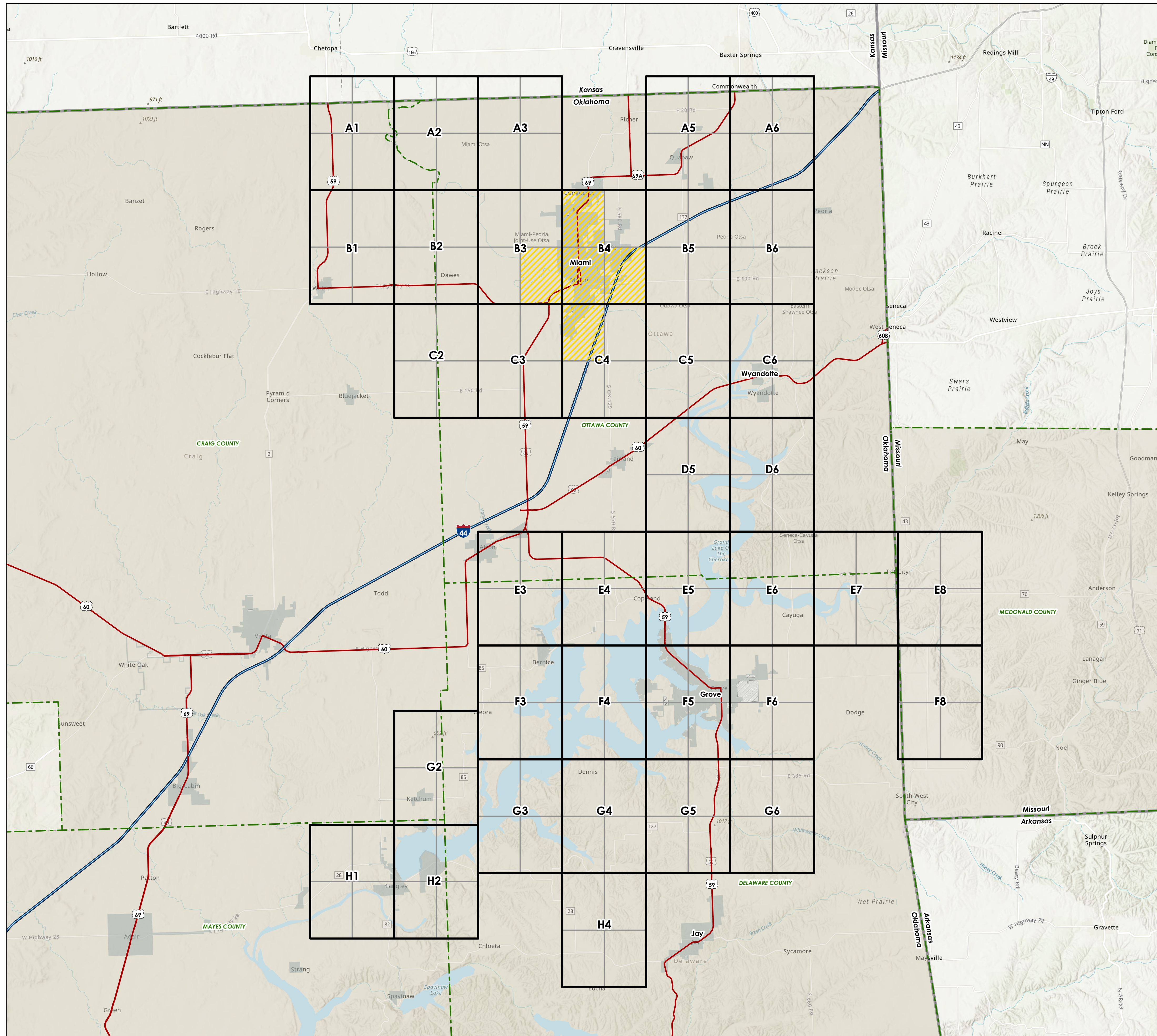
**MAP: H4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

# Upstream Model Results and Critical Infrastructure Overview Map

Pensacola Dam  
GRAND RIVER DAM AUTHORITY  
September 2022



## Overview Map Legend

	1:24,000-scale Map Sheet		County Boundary		Road Class
	1:12,000-scale Detail Sheet		Municipality		Interstate
	State Boundary		Unincorporated		US Highway

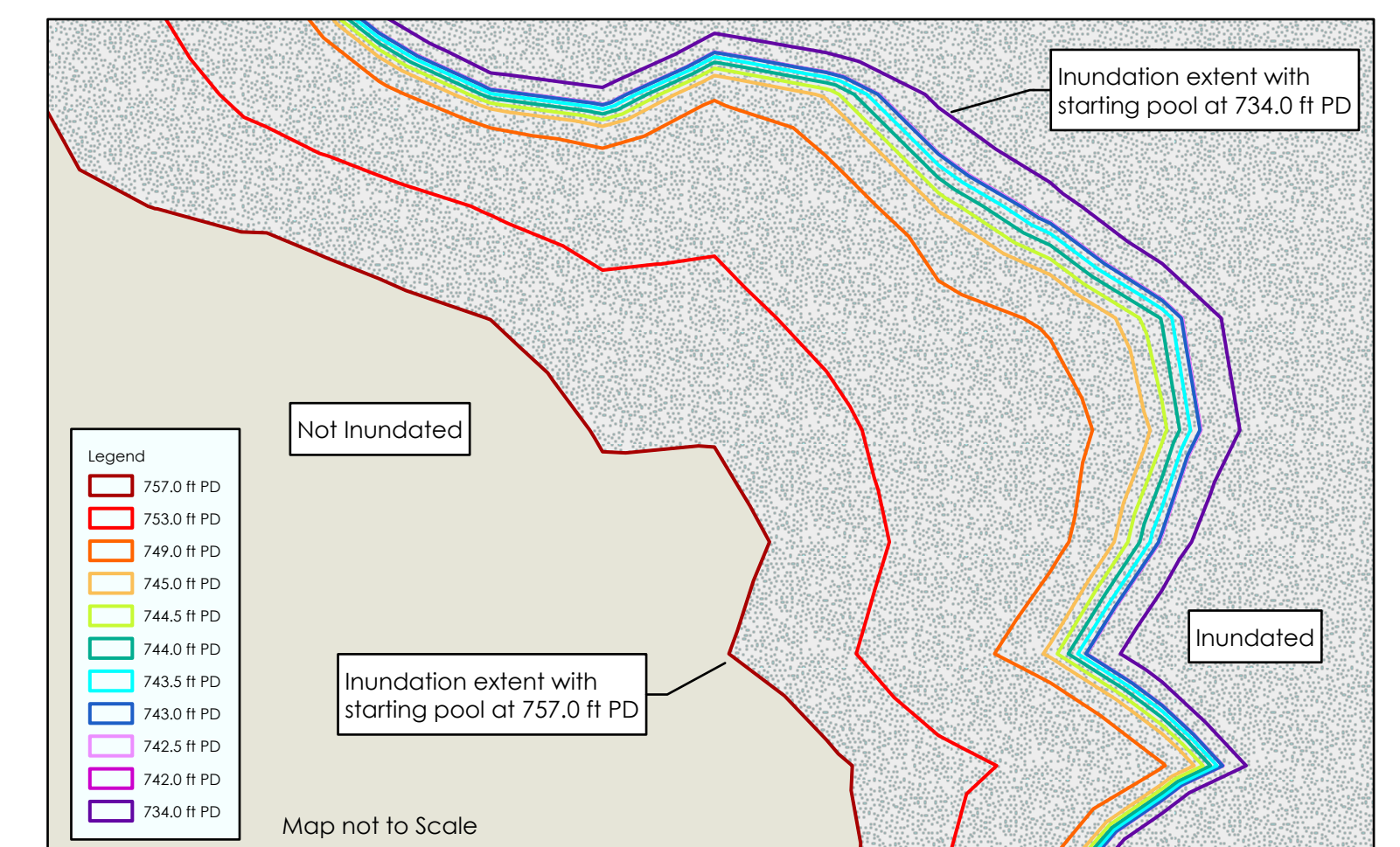
## Critical Infrastructure Legend \*

	Airport		Hospital		School		Wastewater Treatment
	Bridge, Off-sys		Fire Station		Shelter - Both		Water Treatment
	Bridge, On-sys		Law Enforcement		Shelter - Evac Only		
	Bridge, RR		Church		Power Plant		
	Cell Tower		Park		Substation		

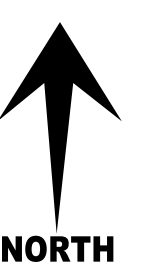
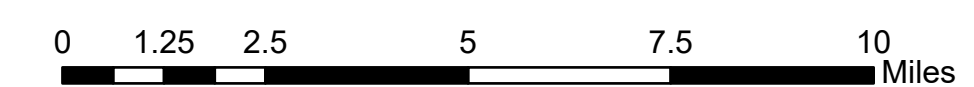
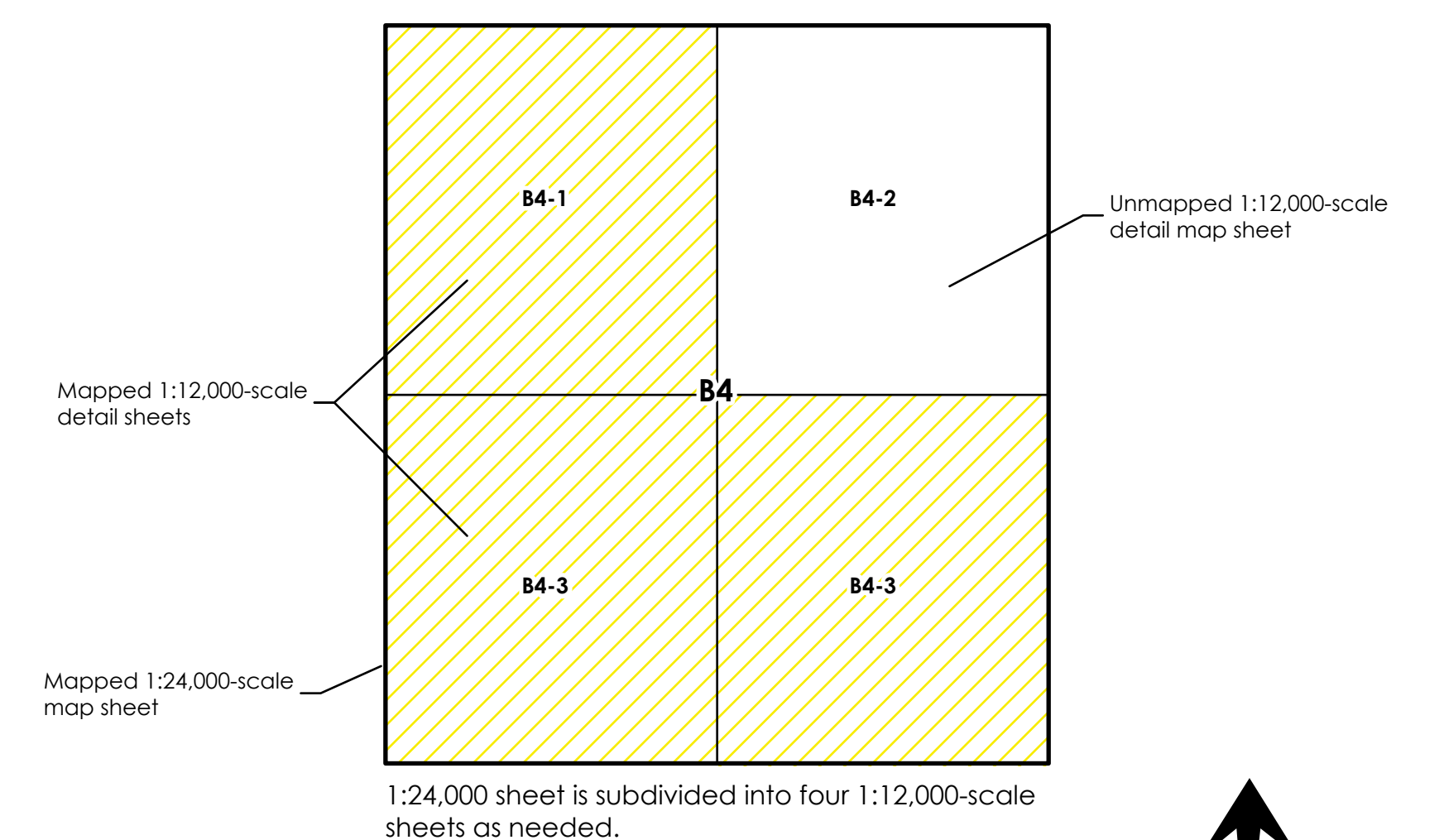
\* Due to space constraints on the individual map sheets, the Critical Infrastructure symbols are provided here. Refer to this Overview Map when using the individual map sheets.

## Inundation Scenario Mapping

Mapping shows the extent of inundation for the selected hydraulic event under different starting pool elevations: 734.0 ft PD, 742.0 ft PD, 742.5 ft PD, 743.0 ft PD, 743.5 ft PD, 744.0 ft PD, 744.5 ft PD, 745.0 ft PD, 749.0 ft PD, 753.0 ft PD, and 757.0 ft PD.



## Map Sheet Organization



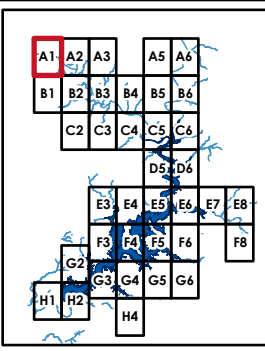
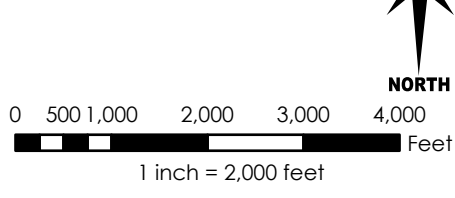
## Map Notes

### Data Sources for Maps:

1. Base map images from [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019
2. Transportation network (major roads, local roads, and railroads) and county boundaries obtained from the Oklahoma Office of Geographic Information (<http://okmaps.org/cgi/search.aspx>).
3. Parcels owned by GRDA are from GIS parcel data provided by County Assessor's Offices (2020).
4. The displayed Flowage Easement is equal to the 760-foot NGVD29 elevation contour, extracted from 2011 Dewberry LIDAR.



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

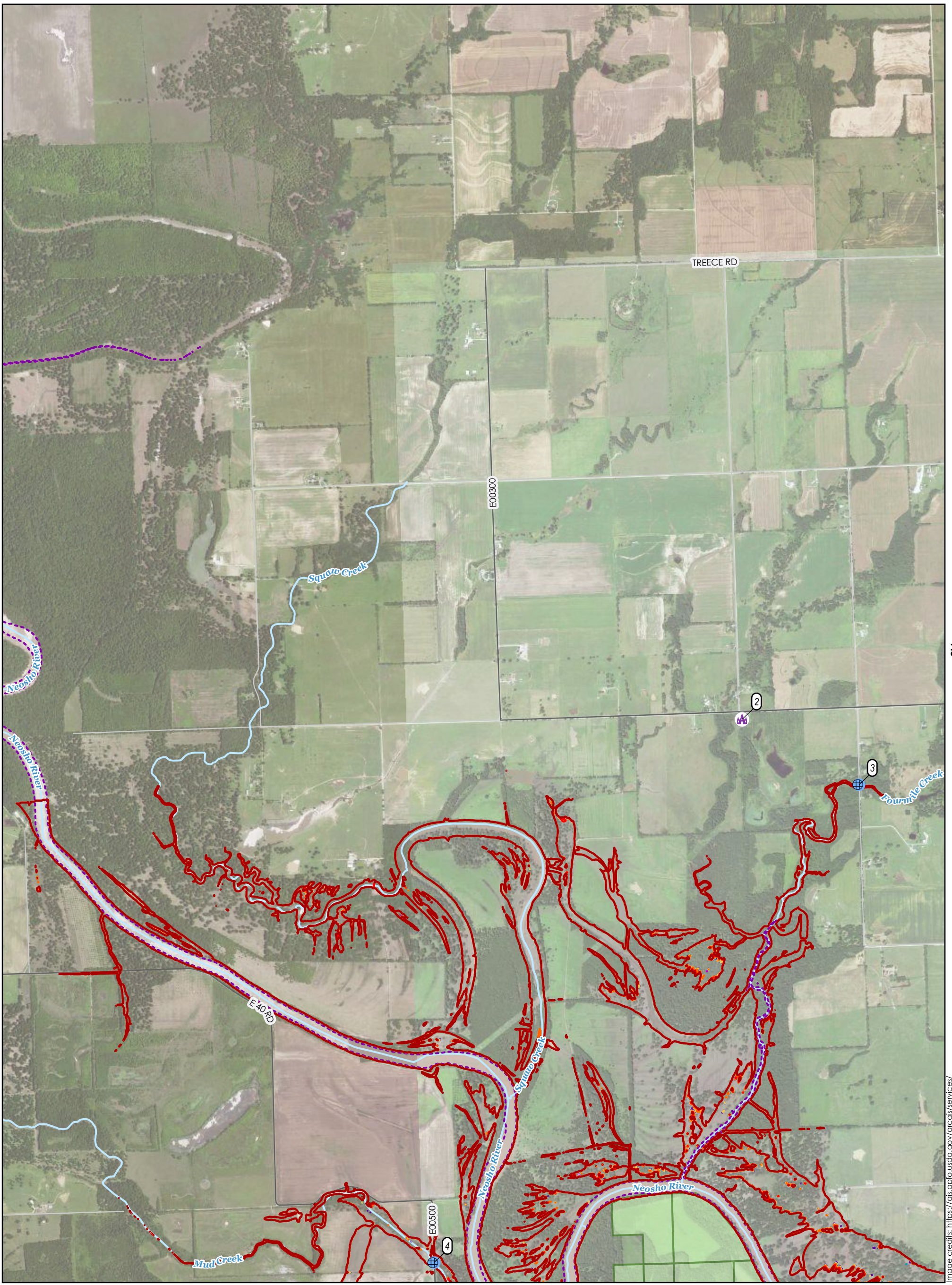
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: A1**

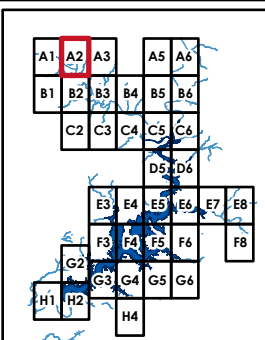
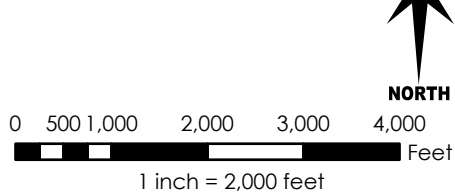
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS		
Interstate	State Highway	US Highway
Major Collector	Local Road	Railroad
Stream	Flowage Easements	Project Boundary
GRDA Ownership		

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: A2**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

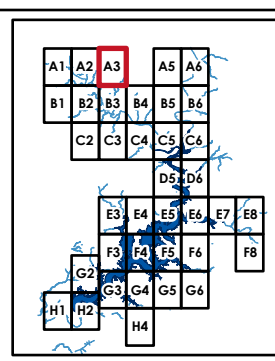


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

**NORTH**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
 GRAND RIVER DAM AUTHORITY

**MAP: A3**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

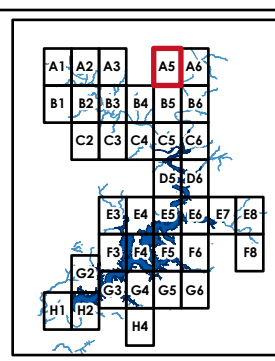


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

**NORTH**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: A5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



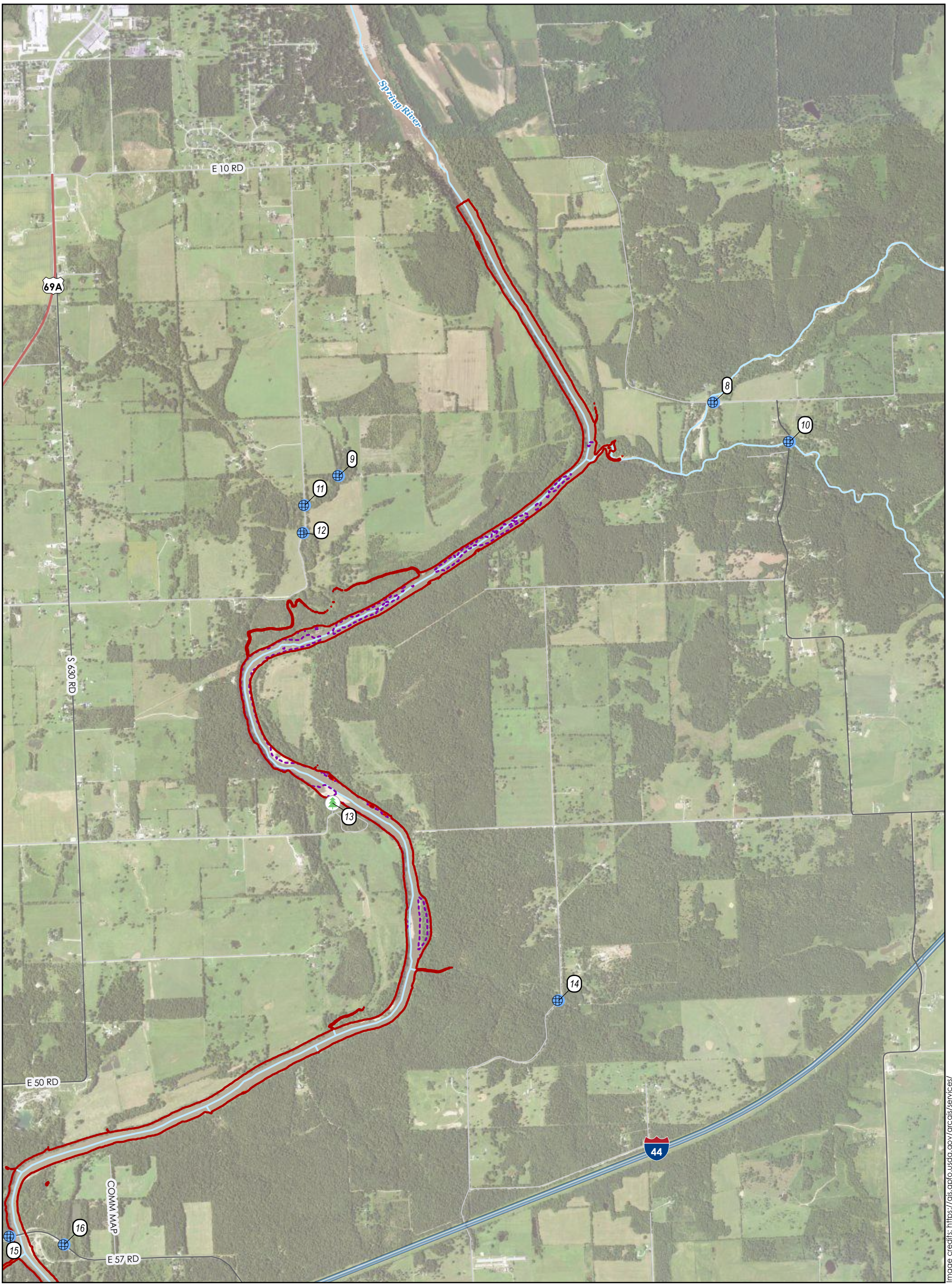
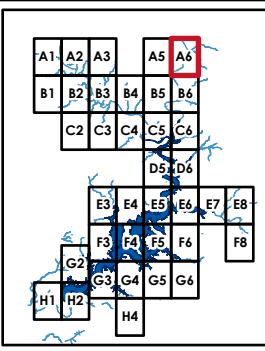
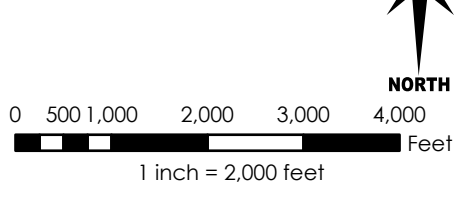


Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



JUNE 2004 MAX INUNDATION	
<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD
<span style="color: yellow;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD
<span style="color: lightgreen;">█</span> 745.0 ft PD	<span style="color: green;">█</span> 742.0 ft PD
<span style="color: limegreen;">█</span> 744.5 ft PD	<span style="color: purple;">█</span> 734.0 ft PD
<span style="color: teal;">█</span> 744.0 ft PD	

#### Legend

ROAD CLASS	
<span style="color: blue;">—</span> Interstate	<span style="color: yellow;">—</span> Railroad
<span style="color: grey;">—</span> State Highway	<span style="color: lightblue;">—</span> Stream
<span style="color: red;">—</span> US Highway	<span style="color: purple;">- - -</span> Flowage Easements
<span style="color: black;">—</span> Major Collector	<span style="color: blue;">- - -</span> Project Boundary
<span style="color: grey;">—</span> Local Road	<span style="color: green;">—</span> GRDA Ownership

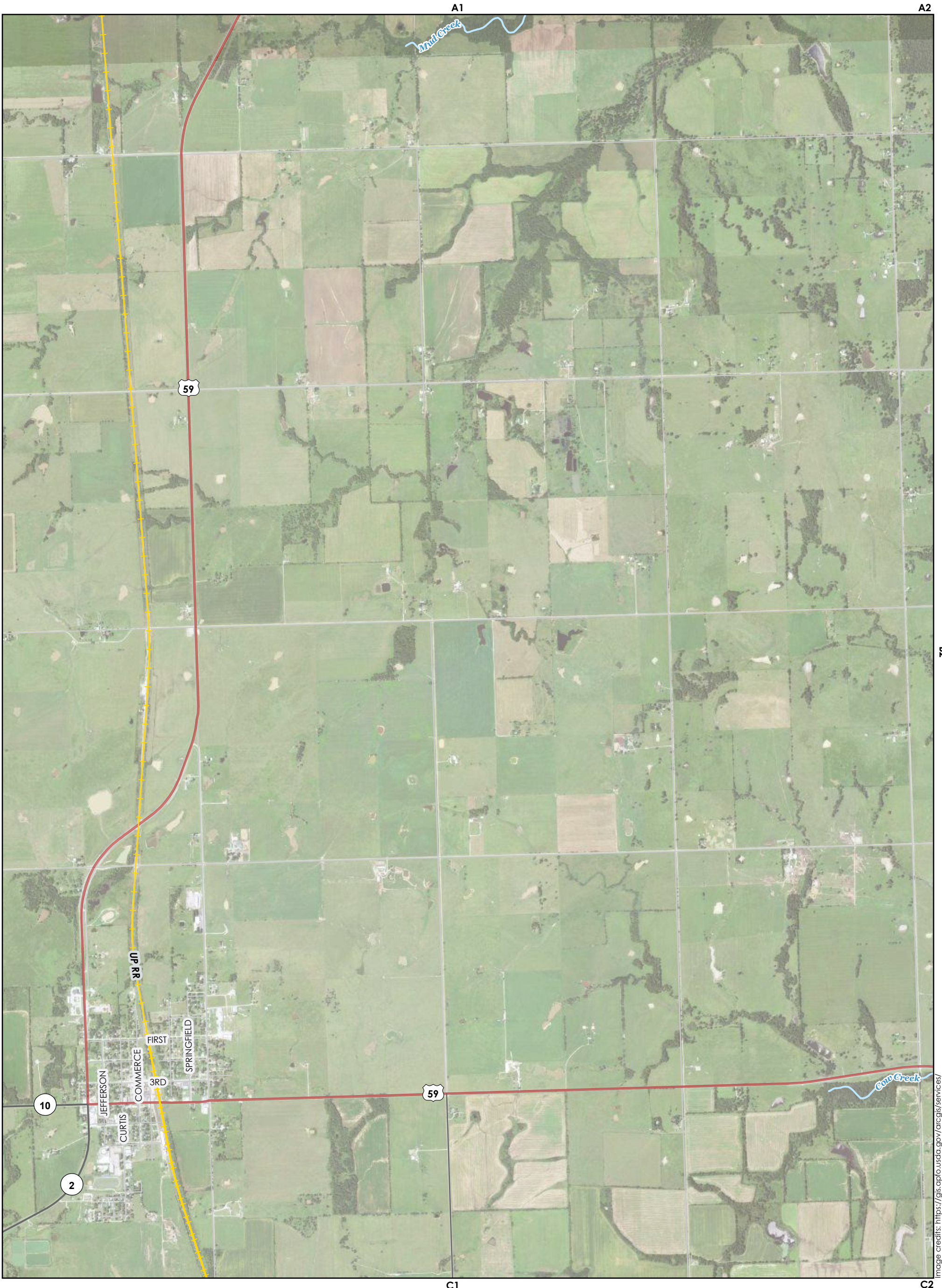
#### MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

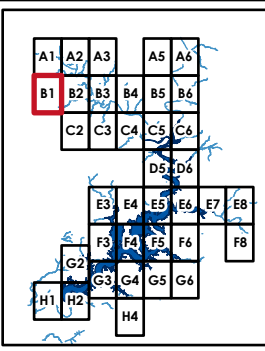
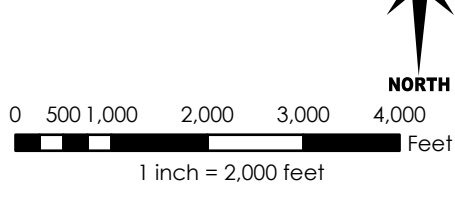
### PENSACOLA DAM GRAND RIVER DAM AUTHORITY

#### MAP: A6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
 September 2022



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

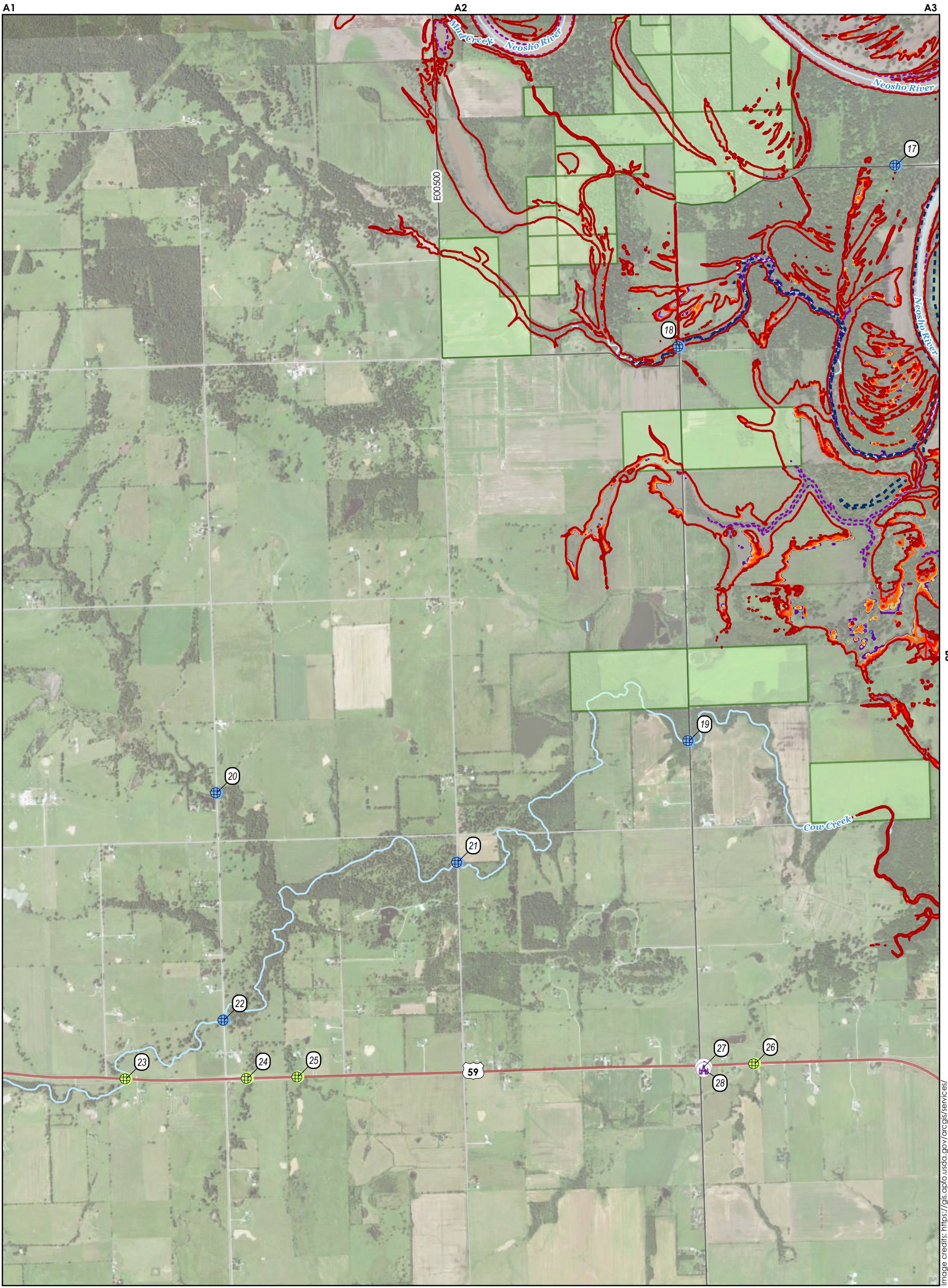
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B1**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

A1 A2 B2 C1 C2  
Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)

NORTH  
↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet

JUNE 2004 MAX INUNDATION		Legend	
<span style="color: red;">—</span> 757.0 ft PD	<span style="color: cyan;">—</span> 743.5 ft PD	<span style="color: blue;">—</span> Interstate	<span style="color: yellow;">—</span> Railroad
<span style="color: orange;">—</span> 753.0 ft PD	<span style="color: blue;">—</span> 743.0 ft PD	<span style="color: grey;">—</span> State Highway	<span style="color: lightblue;">—</span> Stream
<span style="color: orange;">—</span> 749.0 ft PD	<span style="color: purple;">—</span> 742.5 ft PD	<span style="color: red;">—</span> US Highway	<span style="color: purple;">—</span> Flowage Easements
<span style="color: orange;">—</span> 745.0 ft PD	<span style="color: purple;">—</span> 742.0 ft PD	<span style="color: red;">—</span> Major Collector	<span style="color: blue;">—</span> Project Boundary
<span style="color: yellow;">—</span> 744.5 ft PD	<span style="color: purple;">—</span> 734.0 ft PD	<span style="color: grey;">—</span> Local Road	<span style="color: green;">—</span> GRDA Ownership
<span style="color: yellow;">—</span> 744.0 ft PD			

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

## PENSACOLA DAM

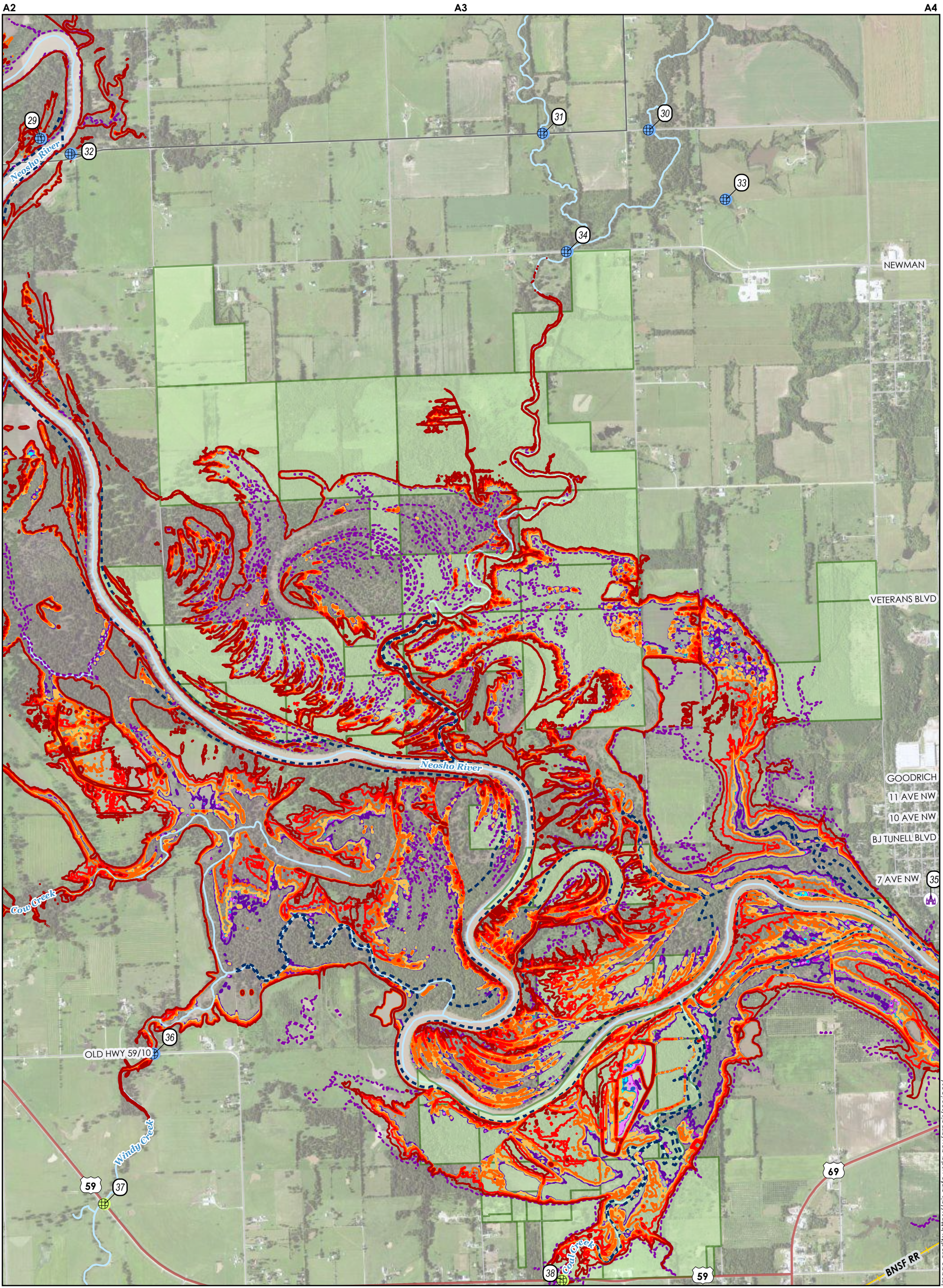
GRAND RIVER DAM AUTHORITY

### MAP: B2

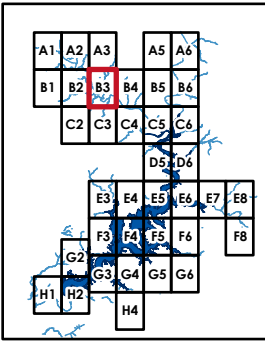
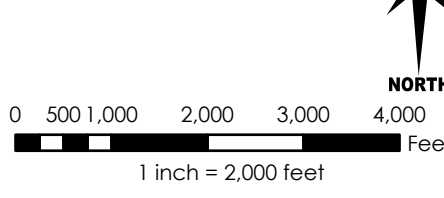
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



JUNE 2004 MAX INUNDATION	
757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	742.0 ft PD
744.0 ft PD	734.0 ft PD

#### Legend

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

#### MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

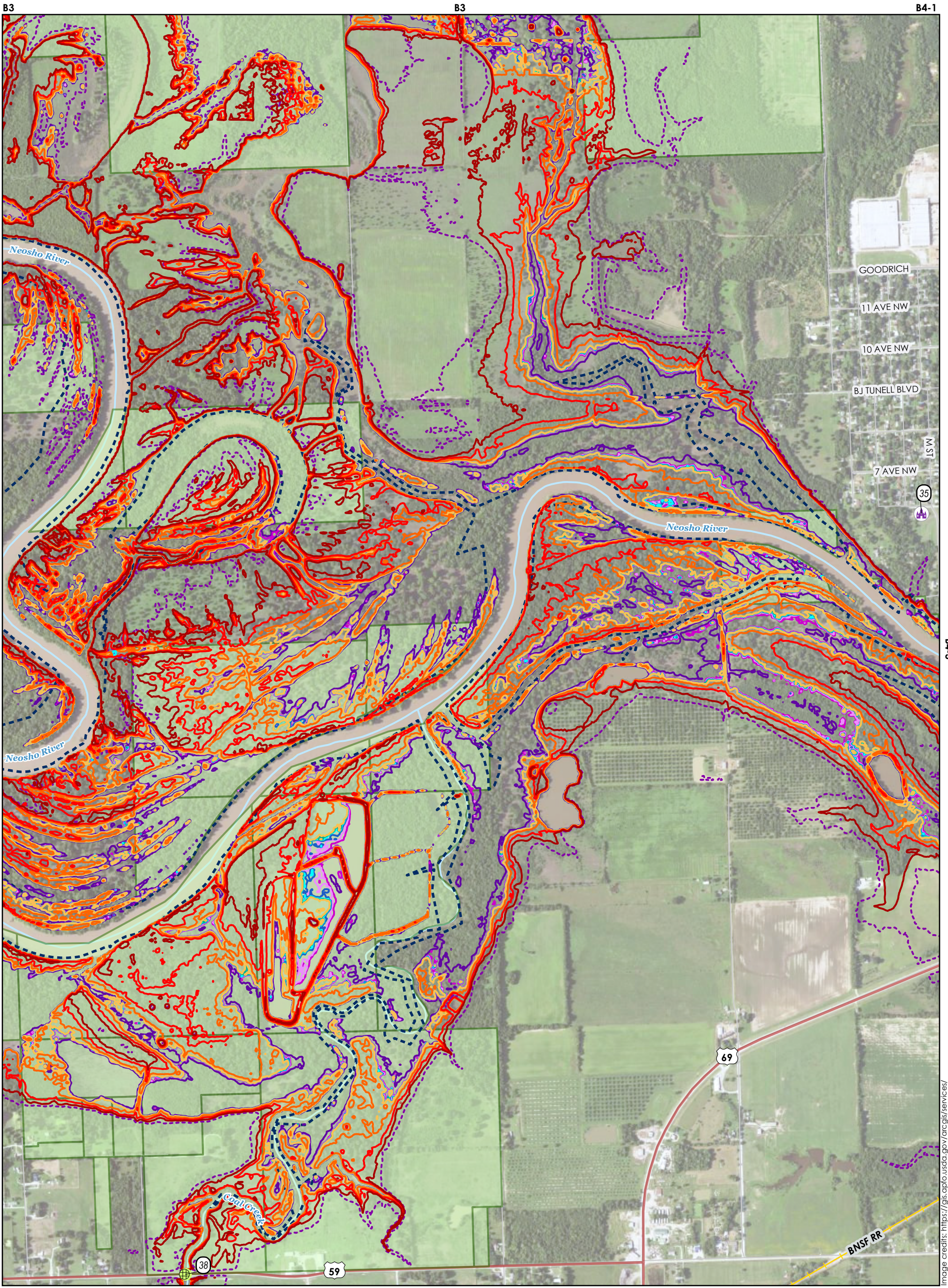
**PENSACOLA DAM**  
**GRAND RIVER DAM AUTHORITY**

**MAP: B3**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

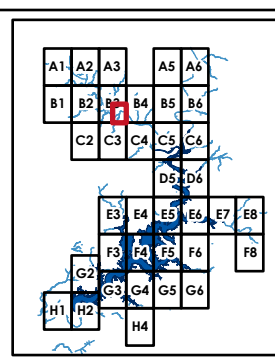


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH**

0 250 500 1,000 1,500 2,000 Feet

1 inch = 1,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
US Highway	Local Road

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

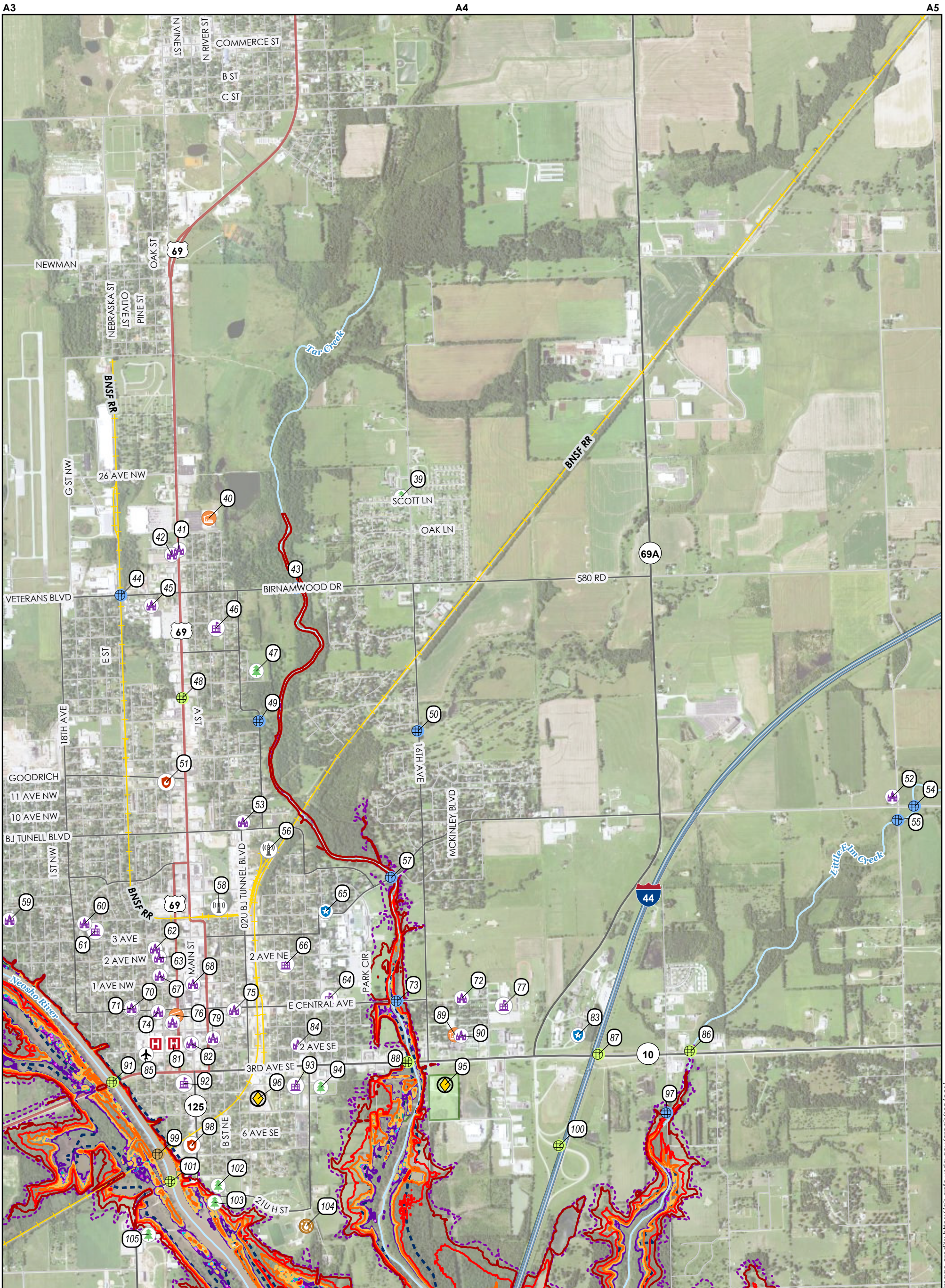
**PENSACOLA DAM**  
**GRAND RIVER DAM AUTHORITY**

**MAP: B3-4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022

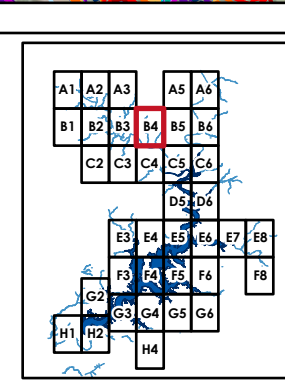
Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)

0 500 1,000 2,000 3,000 4,000 Feet  
1 inch = 2,000 feet

**NORTH**



#### JUNE 2004 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

#### Legend

ROAD CLASS	
	Interstate
	State Highway
	US Highway
	Major Collector
	Local Road

	Railroad
	Stream
	Flowage Easements
	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

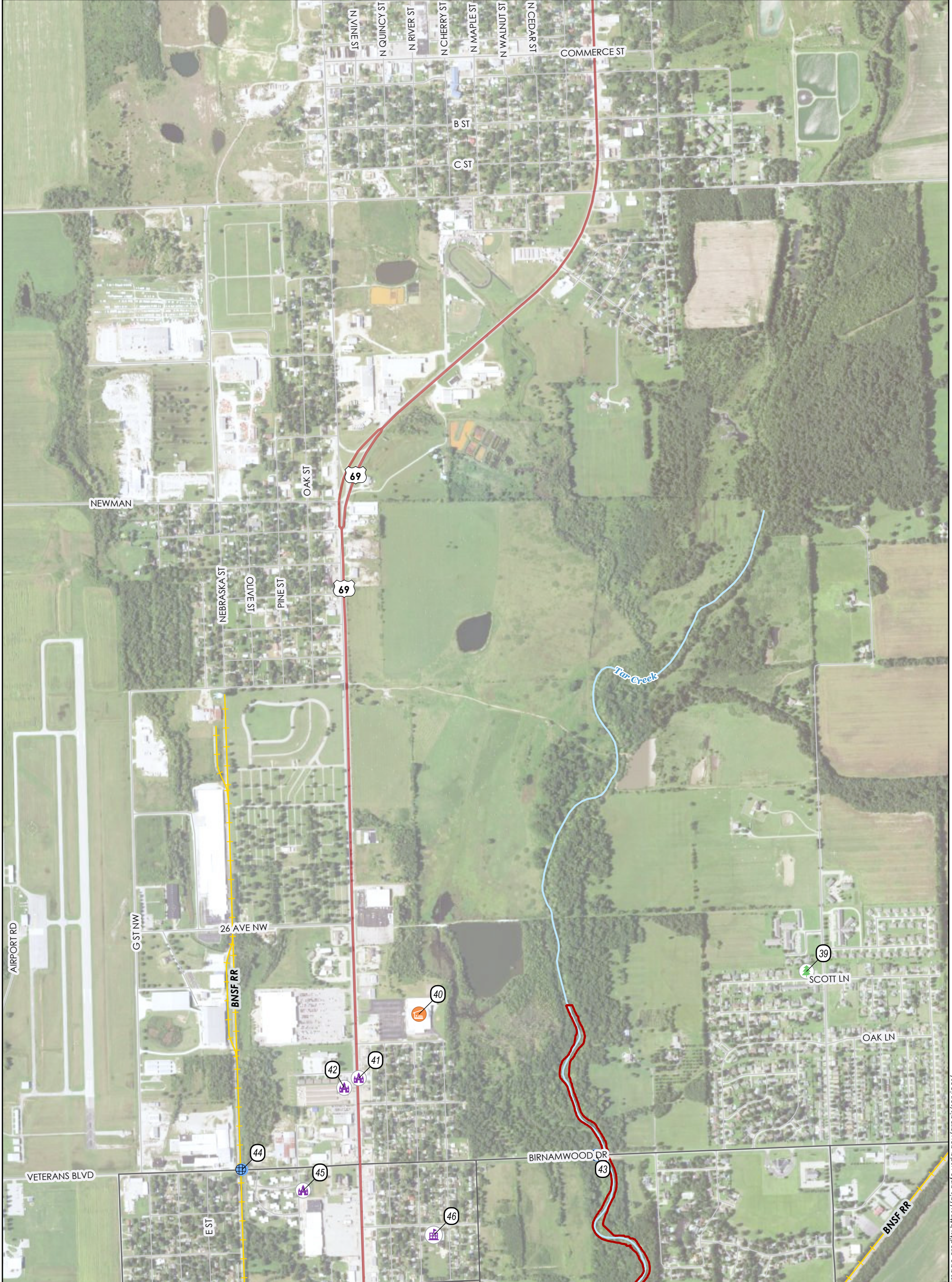
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

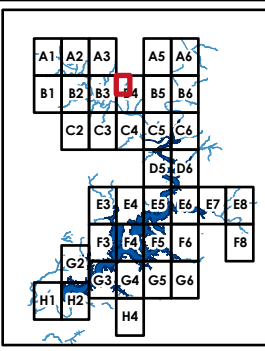


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH** ↑

0 250 500 1,000 1,500 2,000 Feet

1 inch = 1,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**MAP AND LEGEND NOTES**

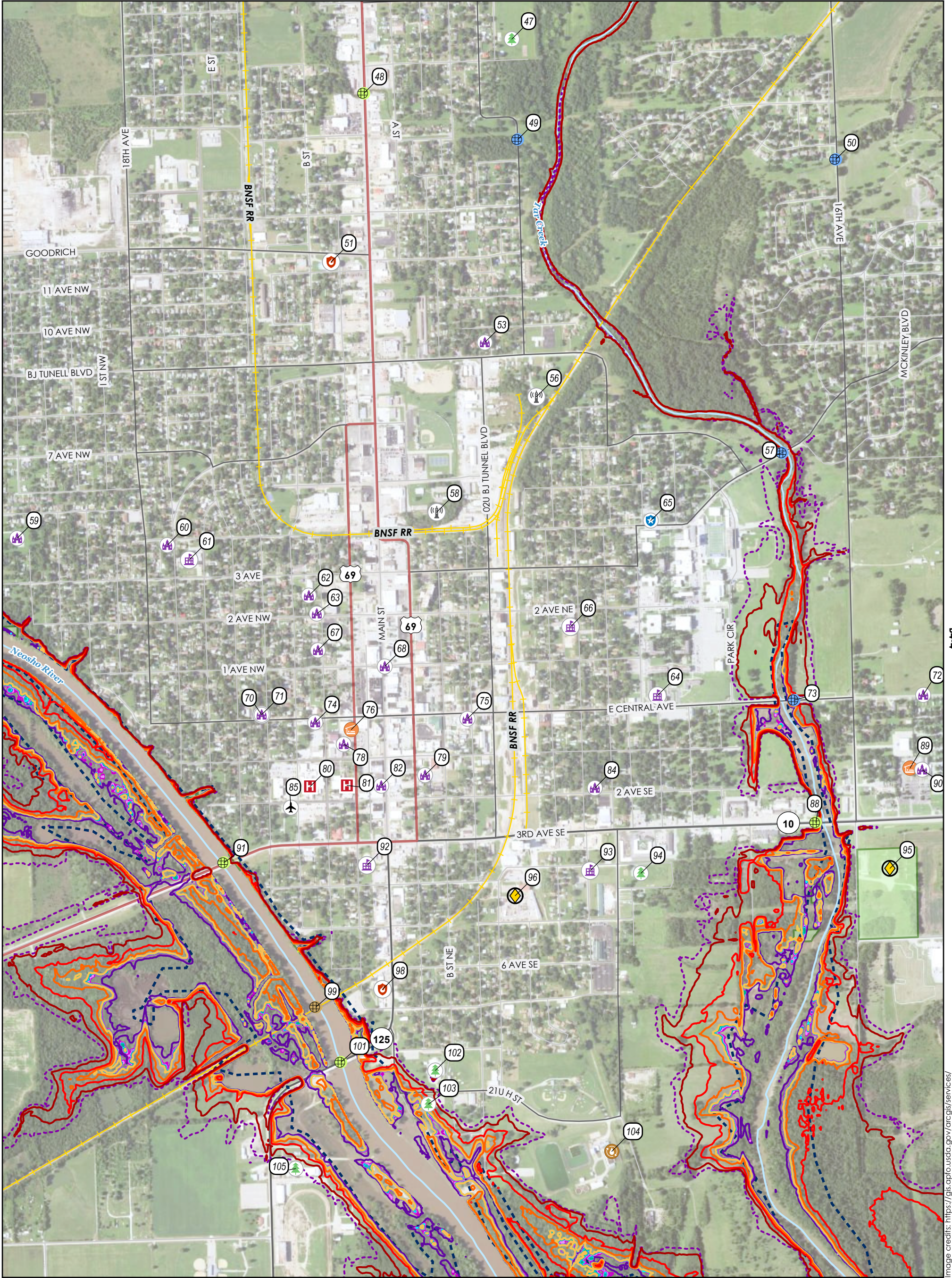
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B4-1**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

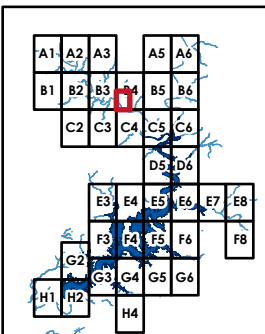
**FERC No. 1494**  
September 2022



**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**



0 250 500 1,000 1,500 2,000 Feet  
1 inch = 1,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

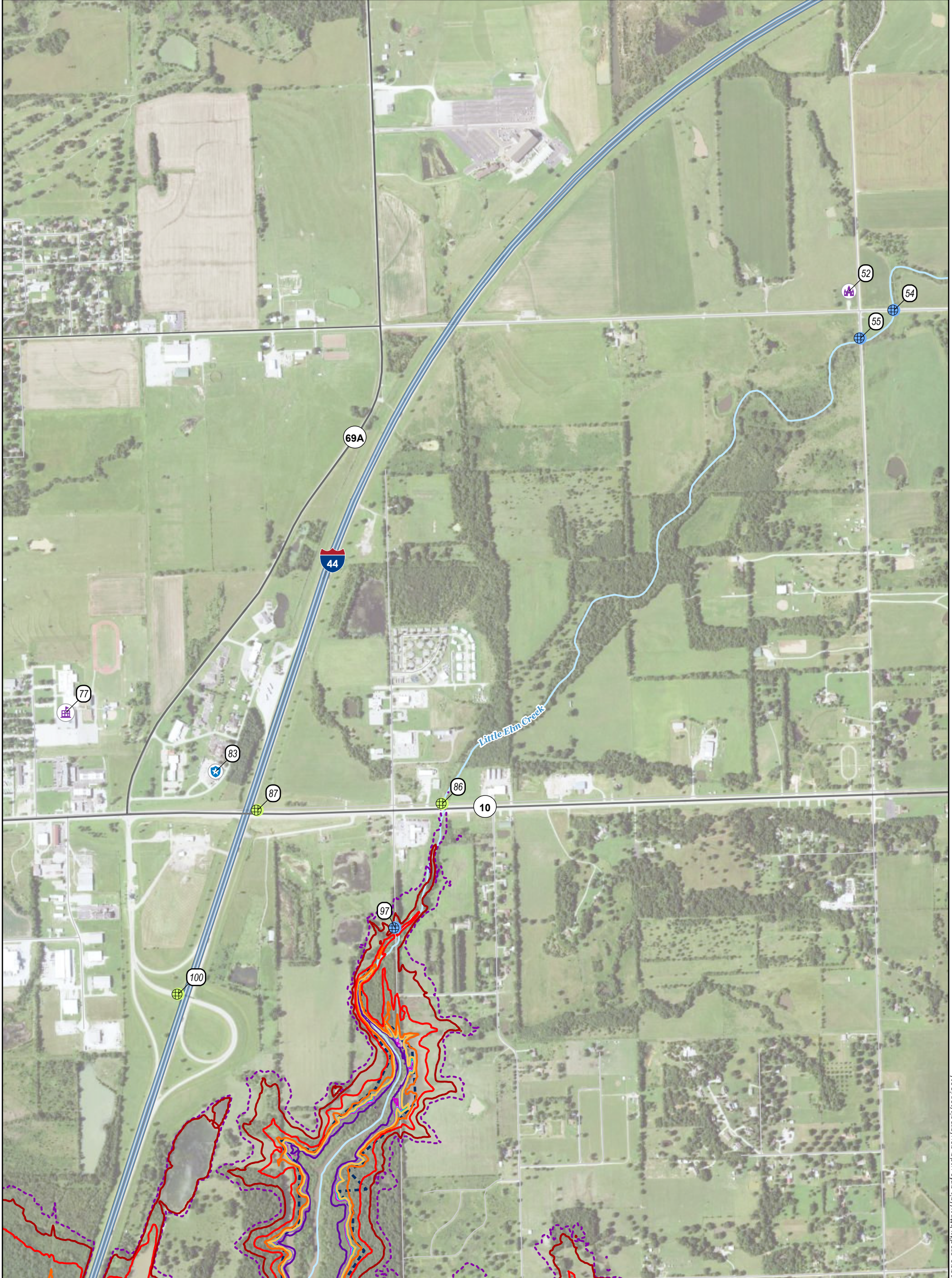
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B4-3**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



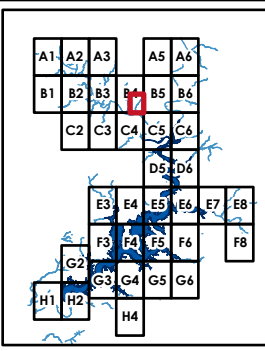


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH**

0 250 500 1,000 1,500 2,000 Feet

1 inch = 1,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

Legend

Railroad

Stream

Flowage Easements

Project Boundary

GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

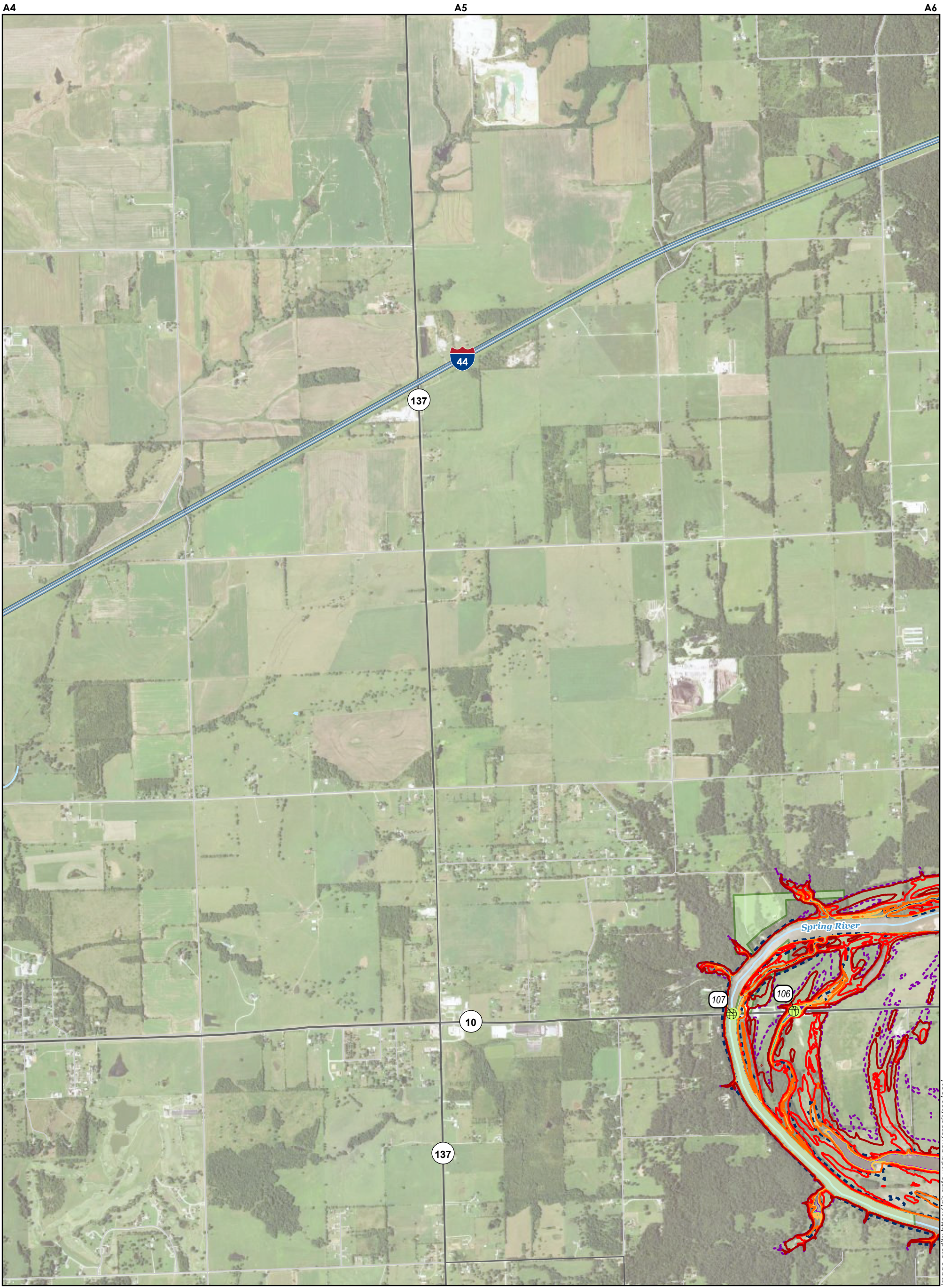
**MAP: B4-4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)

NORTH  
↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet

#### JUNE 2004 MAX INUNDATION

<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD
<span style="color: yellow;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD
<span style="color: lightgreen;">█</span> 745.0 ft PD	<span style="color: purple;">█</span> 742.0 ft PD
<span style="color: limegreen;">█</span> 744.5 ft PD	<span style="color: darkblue;">█</span> 734.0 ft PD
<span style="color: teal;">█</span> 744.0 ft PD	

#### Legend

<span style="color: blue;">—</span> Interstate	<span style="color: yellow;">—</span> Railroad
<span style="color: grey;">—</span> State Highway	<span style="color: lightblue;">—</span> Stream
<span style="color: brown;">—</span> US Highway	<span style="color: purple;">- - -</span> Flowage Easements
<span style="color: grey;">—</span> Major Collector	<span style="color: blue;">- - -</span> Project Boundary
<span style="color: grey;">—</span> Local Road	<span style="color: green;">█</span> GRDA Ownership

## PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

### MAP: B5

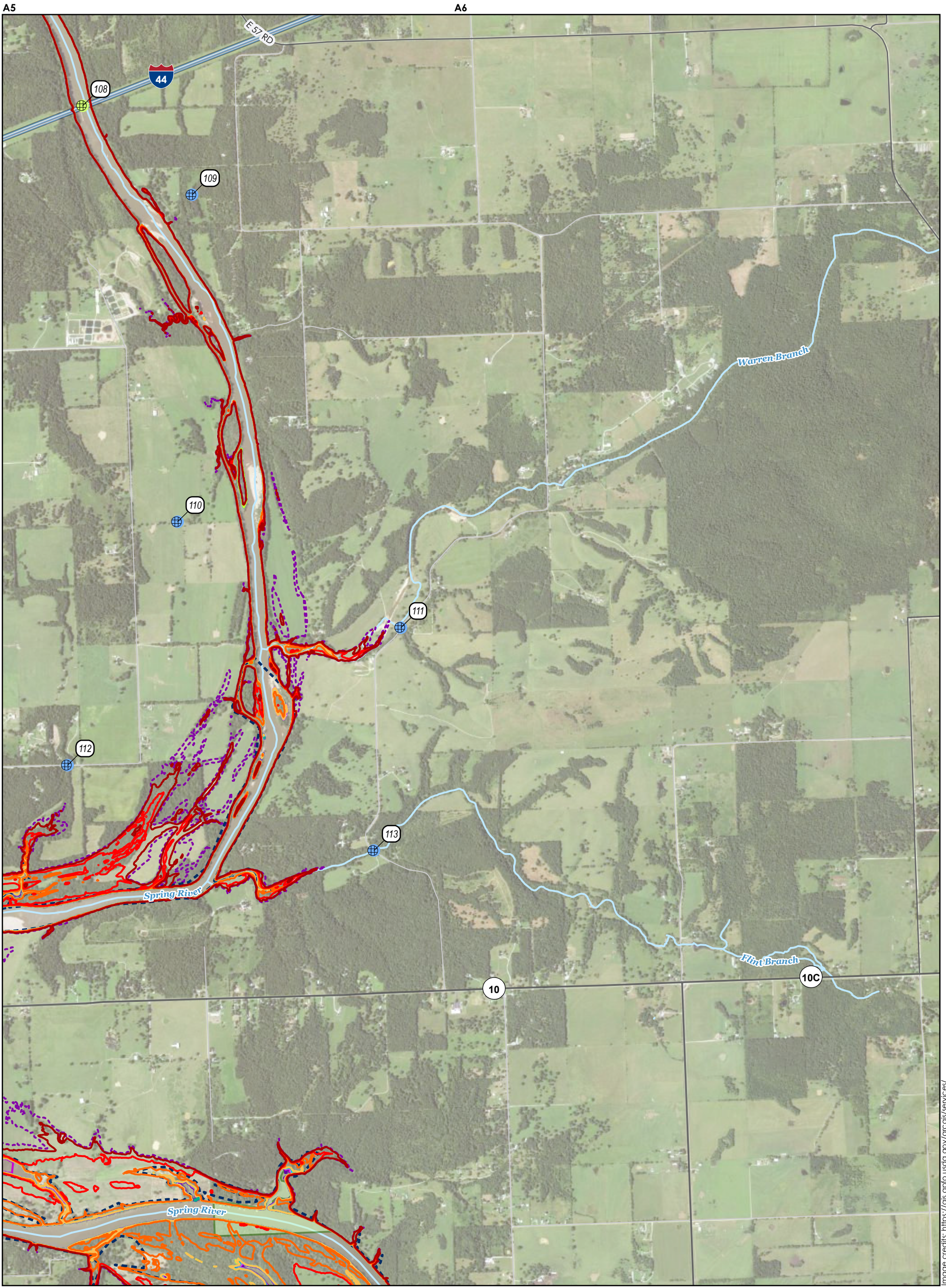
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

#### MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019

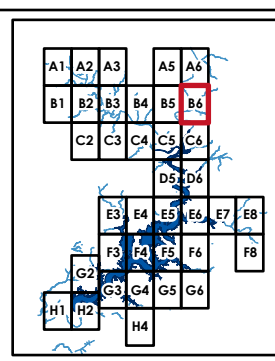


**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS		
Interstate	State Highway	Railroad
US Highway	Major Collector	Stream
Local Road		Flowage Easements
		Project Boundary
		GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: B6**

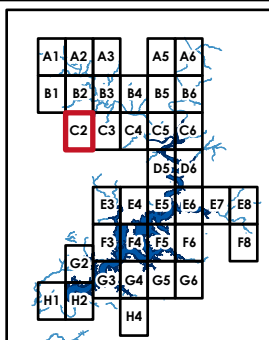
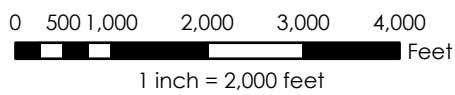
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

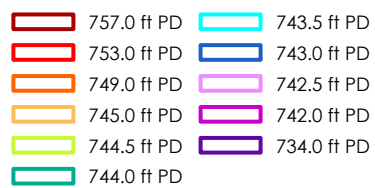
Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**

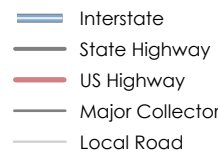


**JUNE 2004 MAX INUNDATION**



**Legend**

**ROAD CLASS**



**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

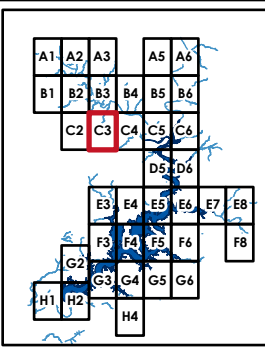
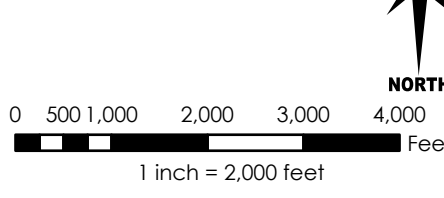
**MAP: C2**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



# JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

## Legend

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

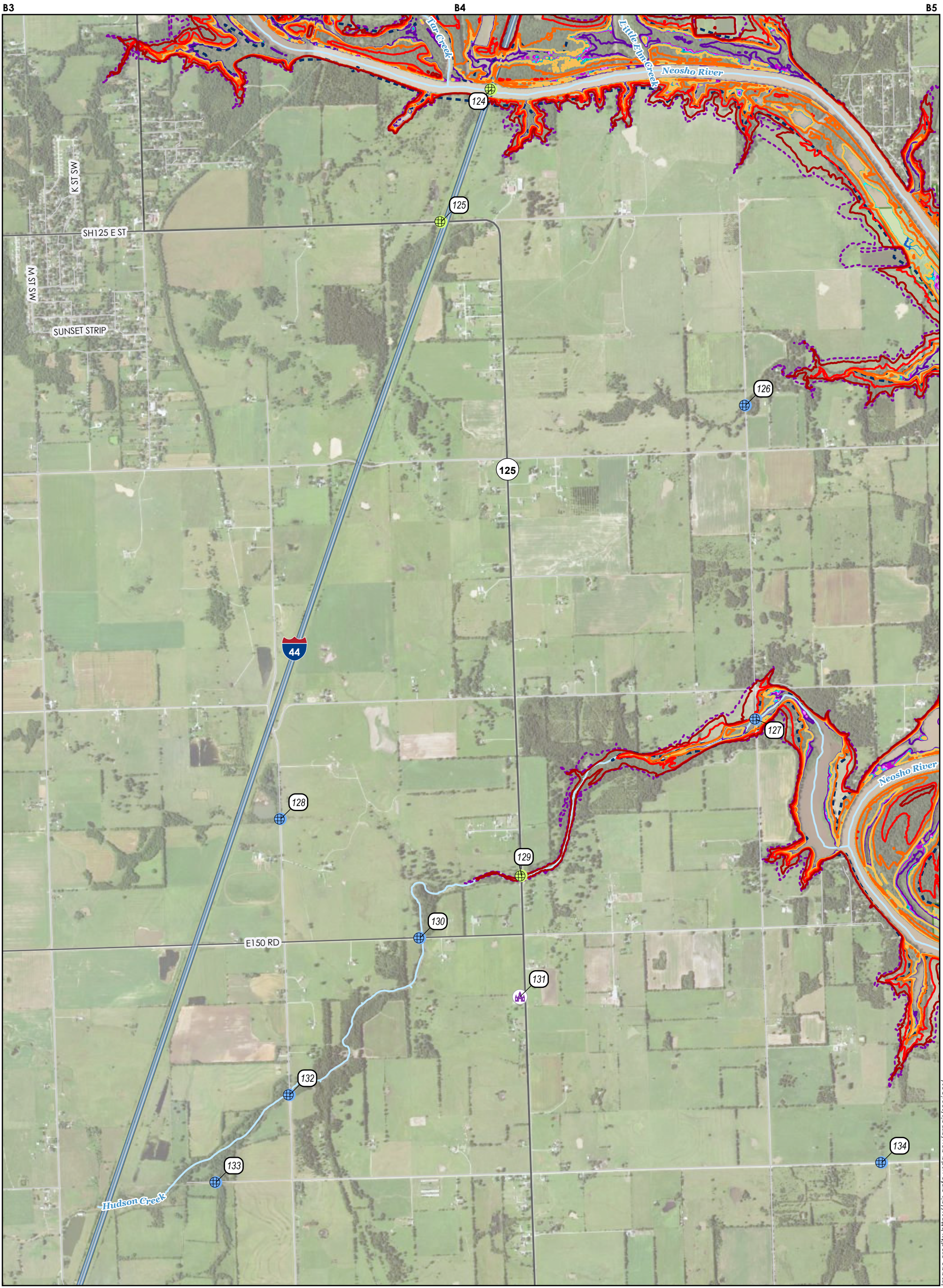
## MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C3**

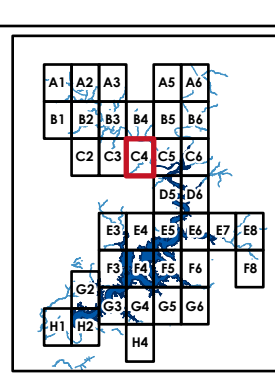
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022



**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

0 500 1,000 2,000 3,000 4,000 Feet  
1 inch = 2,000 feet

**NORTH**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

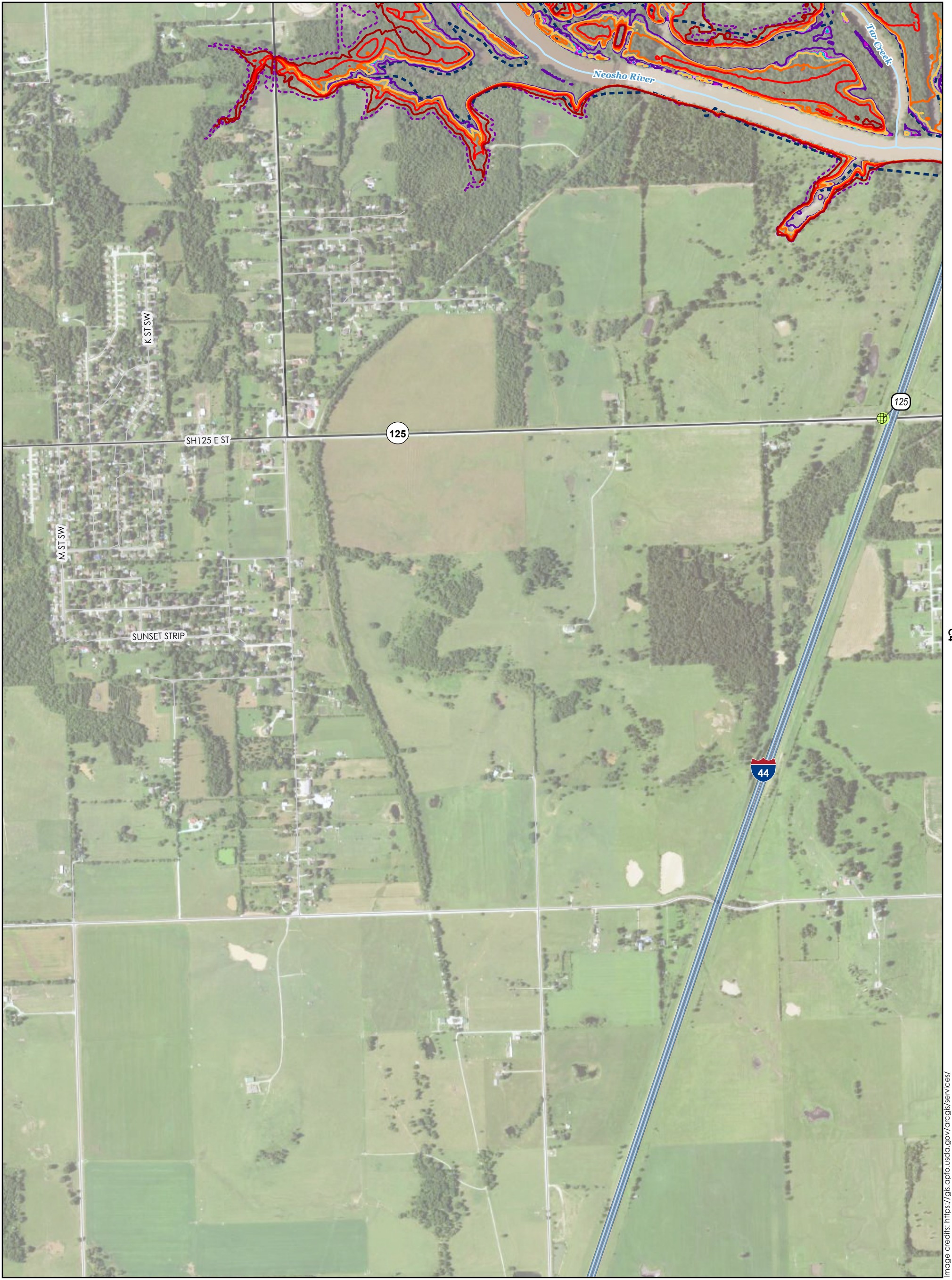
**MAP: C4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

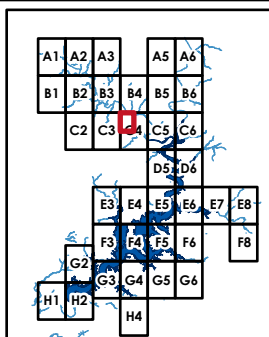
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



0 250 500 1,000 1,500 2,000  
Feet  
1 inch = 1,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

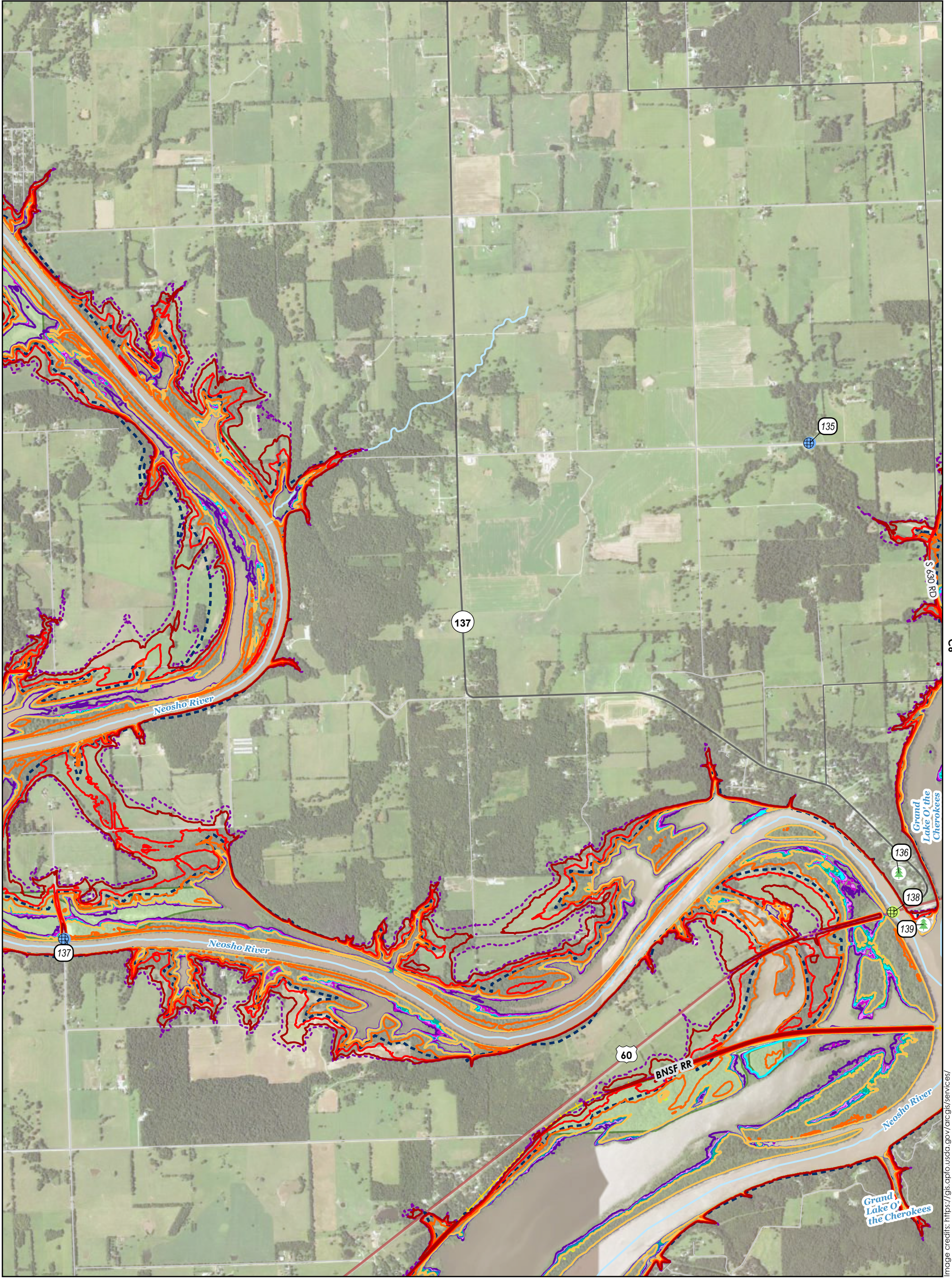
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C4-1**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

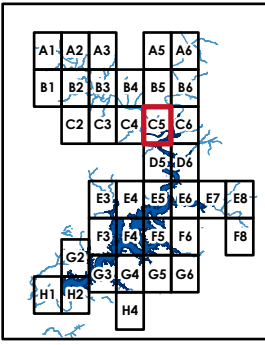
**FERC No. 1494**  
September 2022



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000  
Feet  
1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C5**

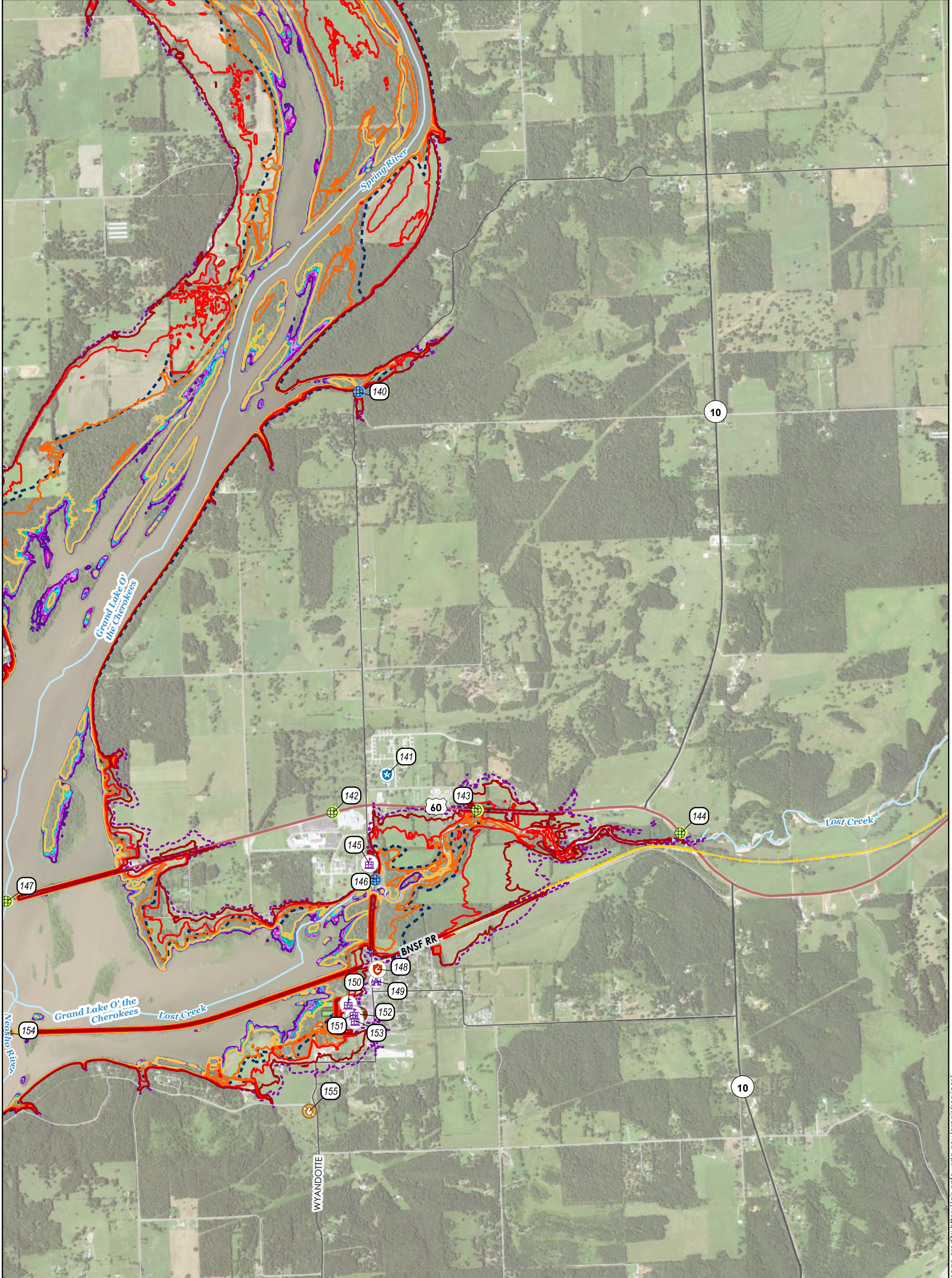
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



B5

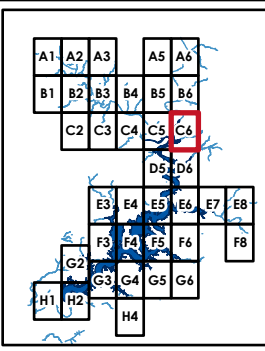
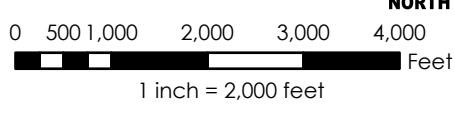
B6



D5

D6

**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

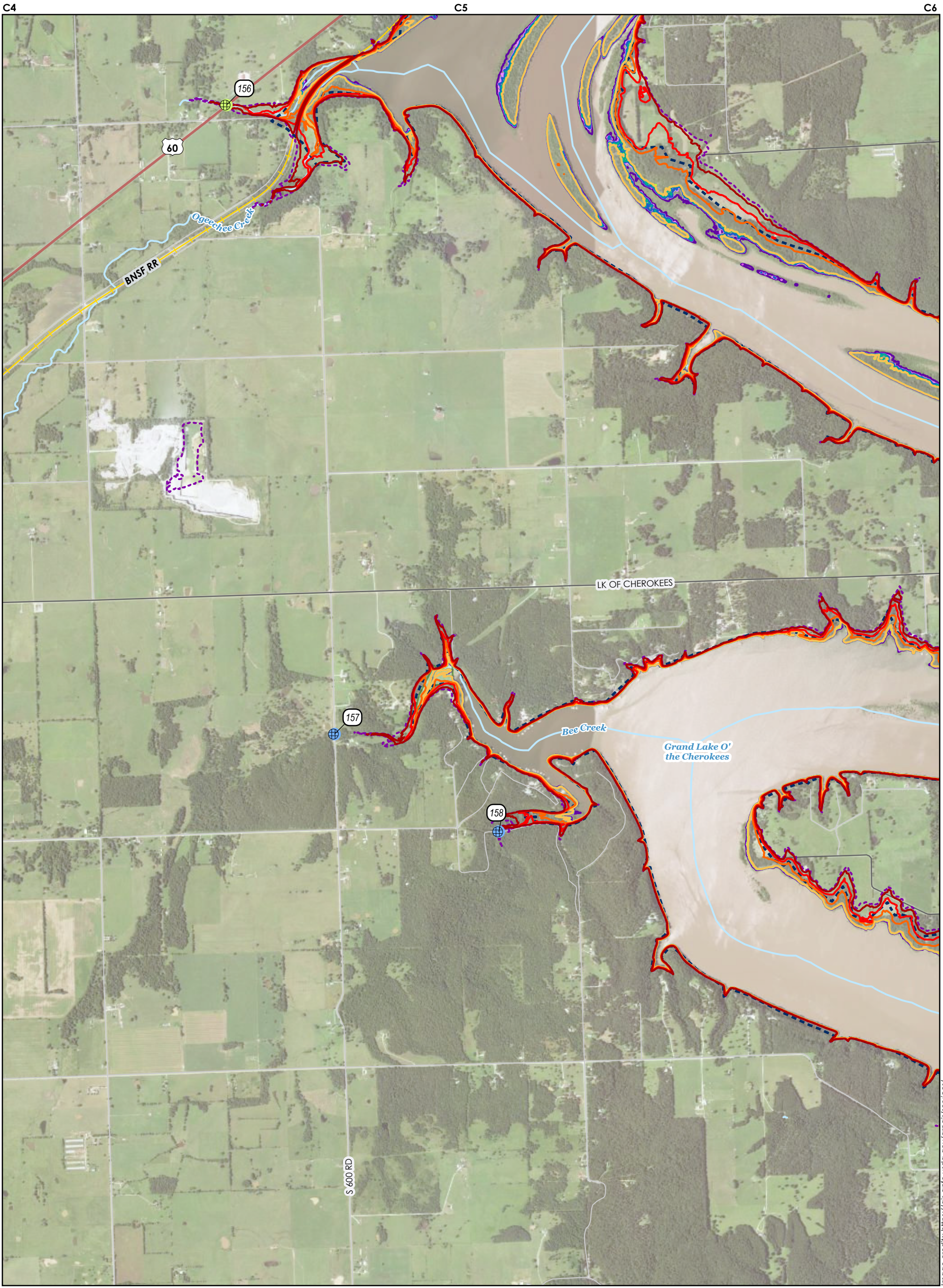
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: C6**

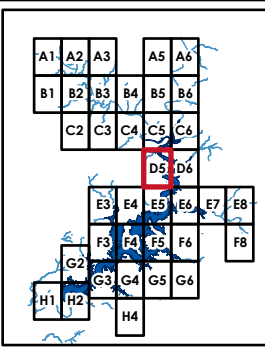
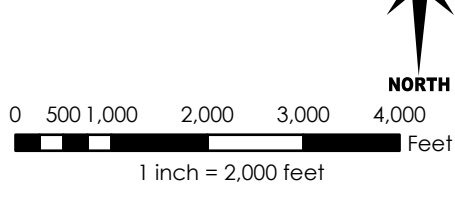
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: D5**

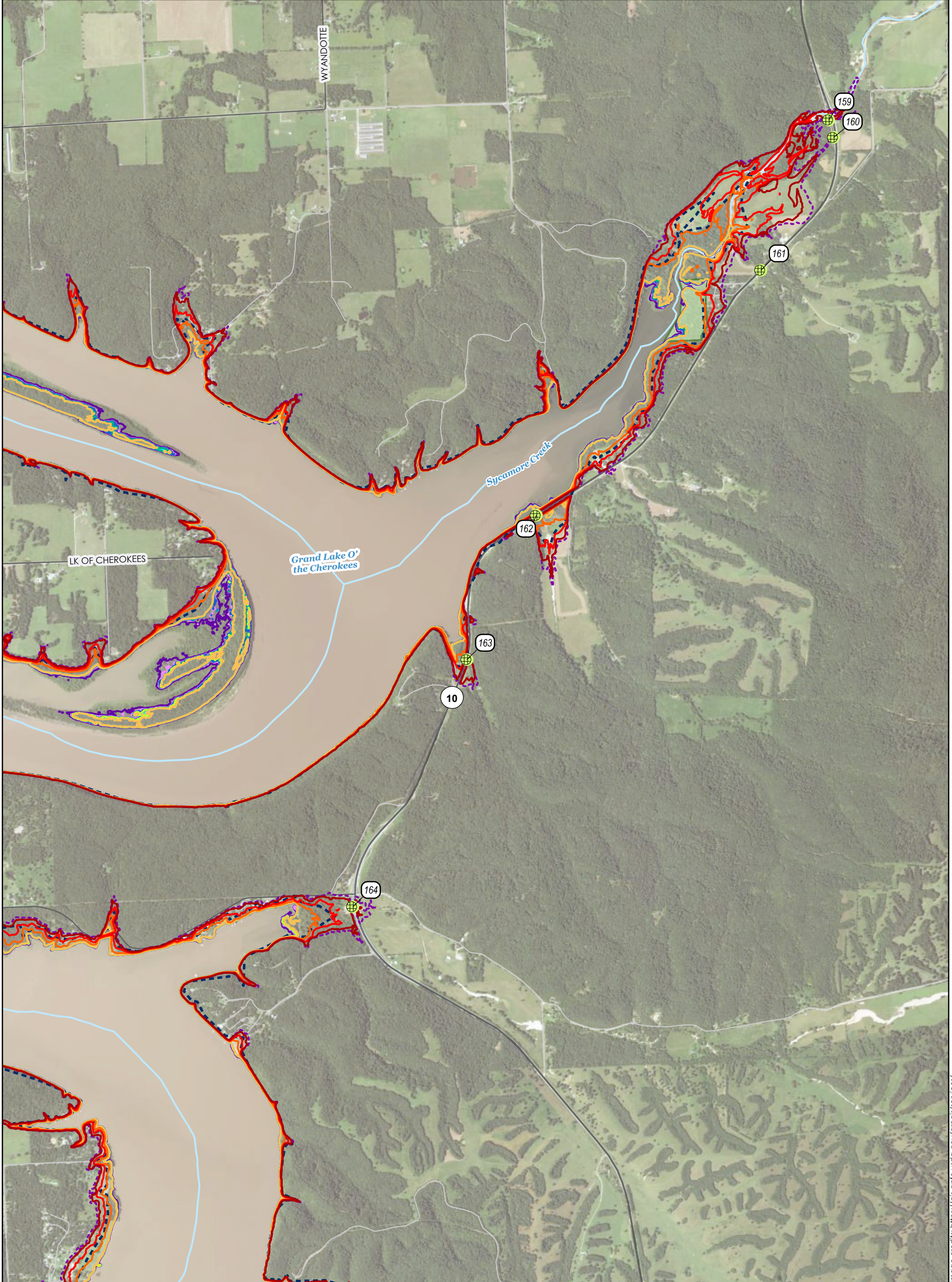
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.cplbo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.cplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

C5

C6



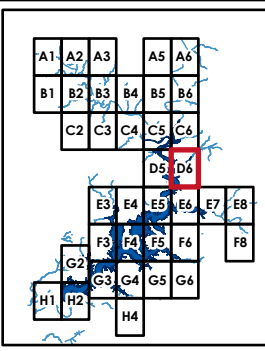
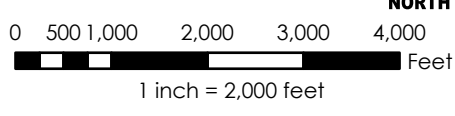
D5

E5

E6

E7

**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

**MAP: D6**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019

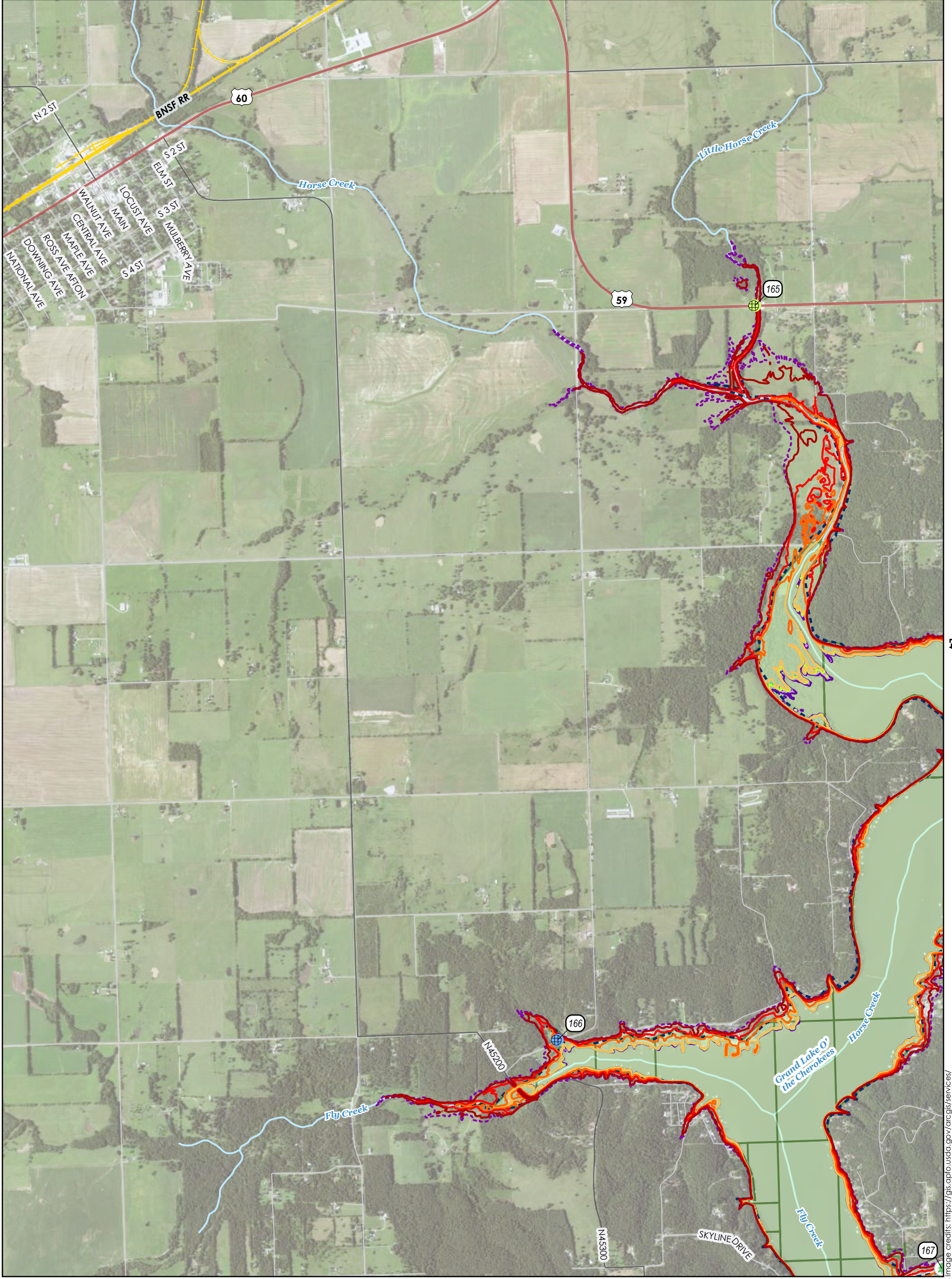


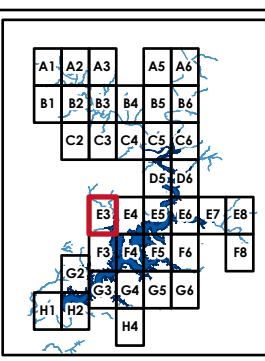
Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
	Interstate
	State Highway
	US Highway
	Major Collector
	Local Road
	Railroad
	Stream
	Flowage Easements
	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

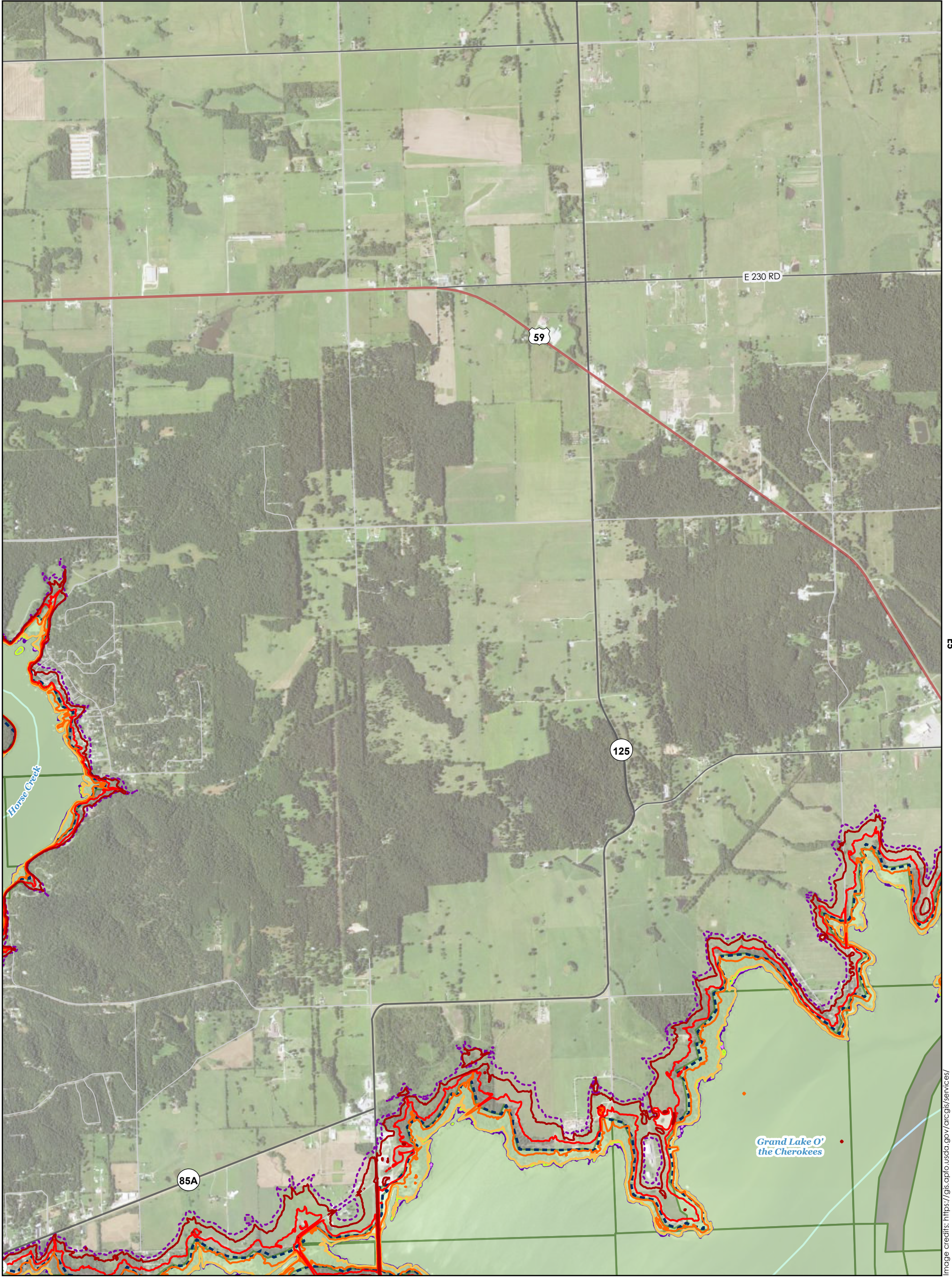
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

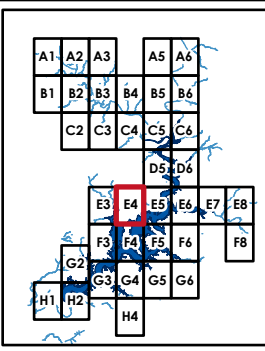
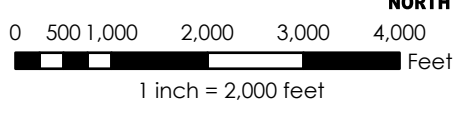
**MAP: E3**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

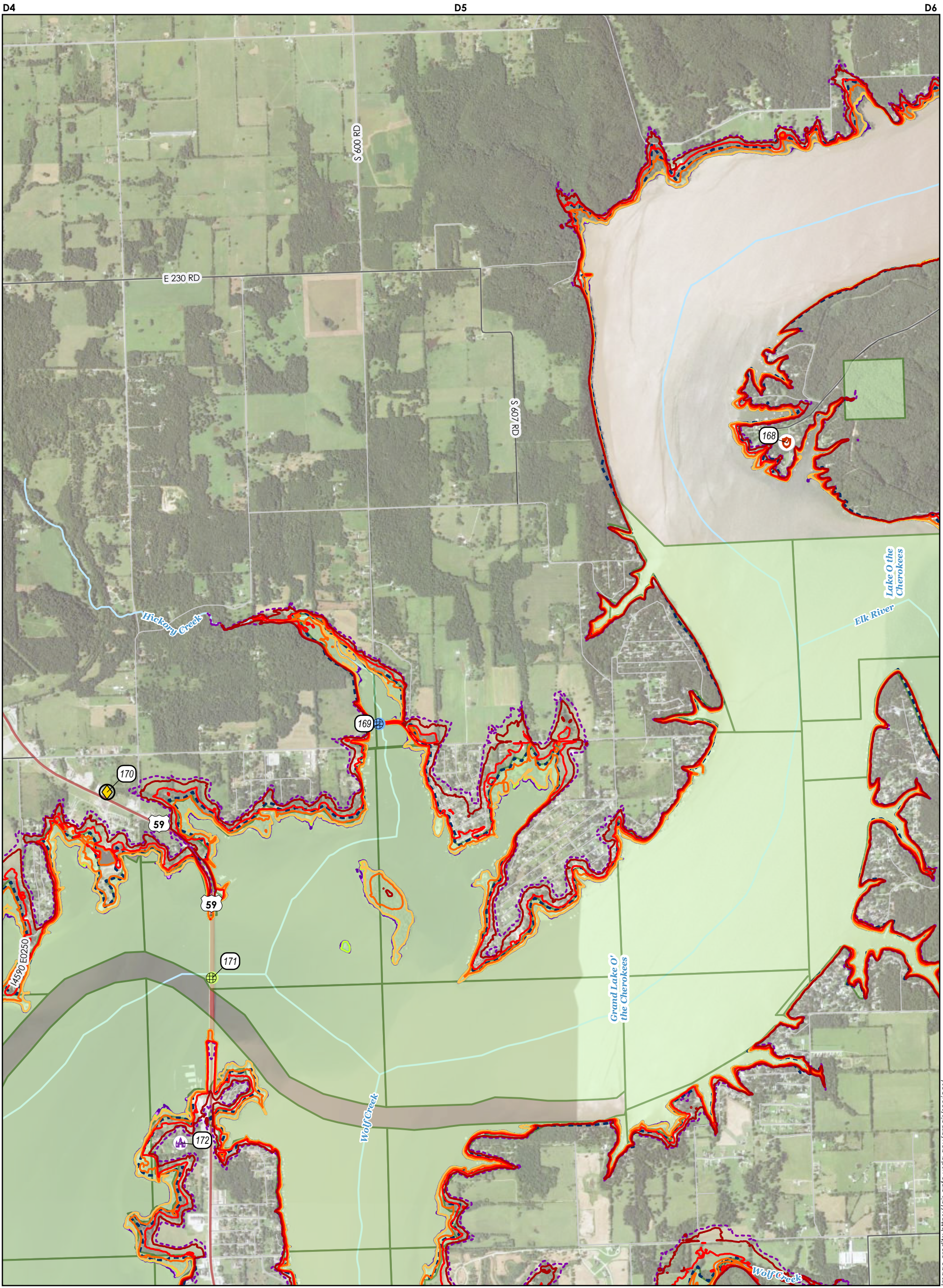
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

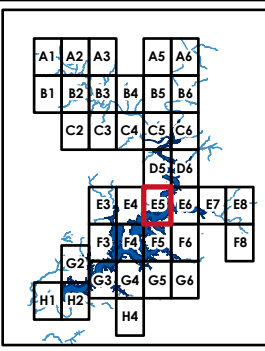
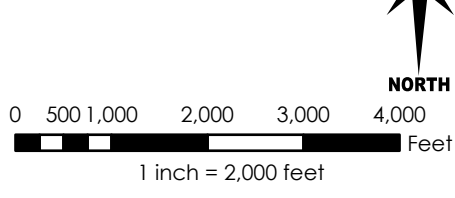
**MAP: E4**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

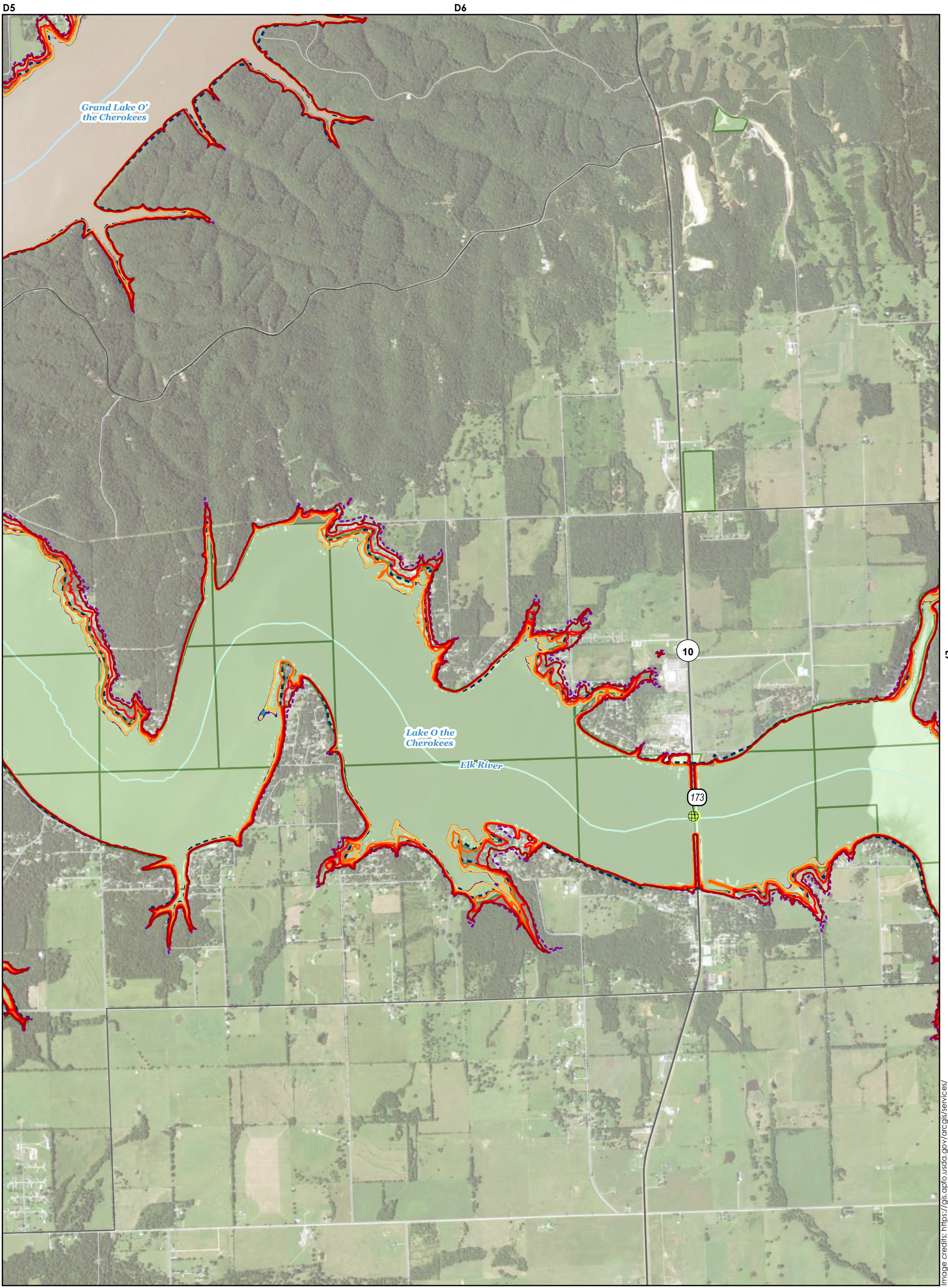
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: E5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

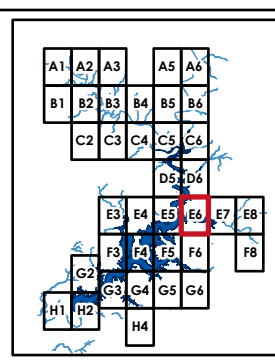


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

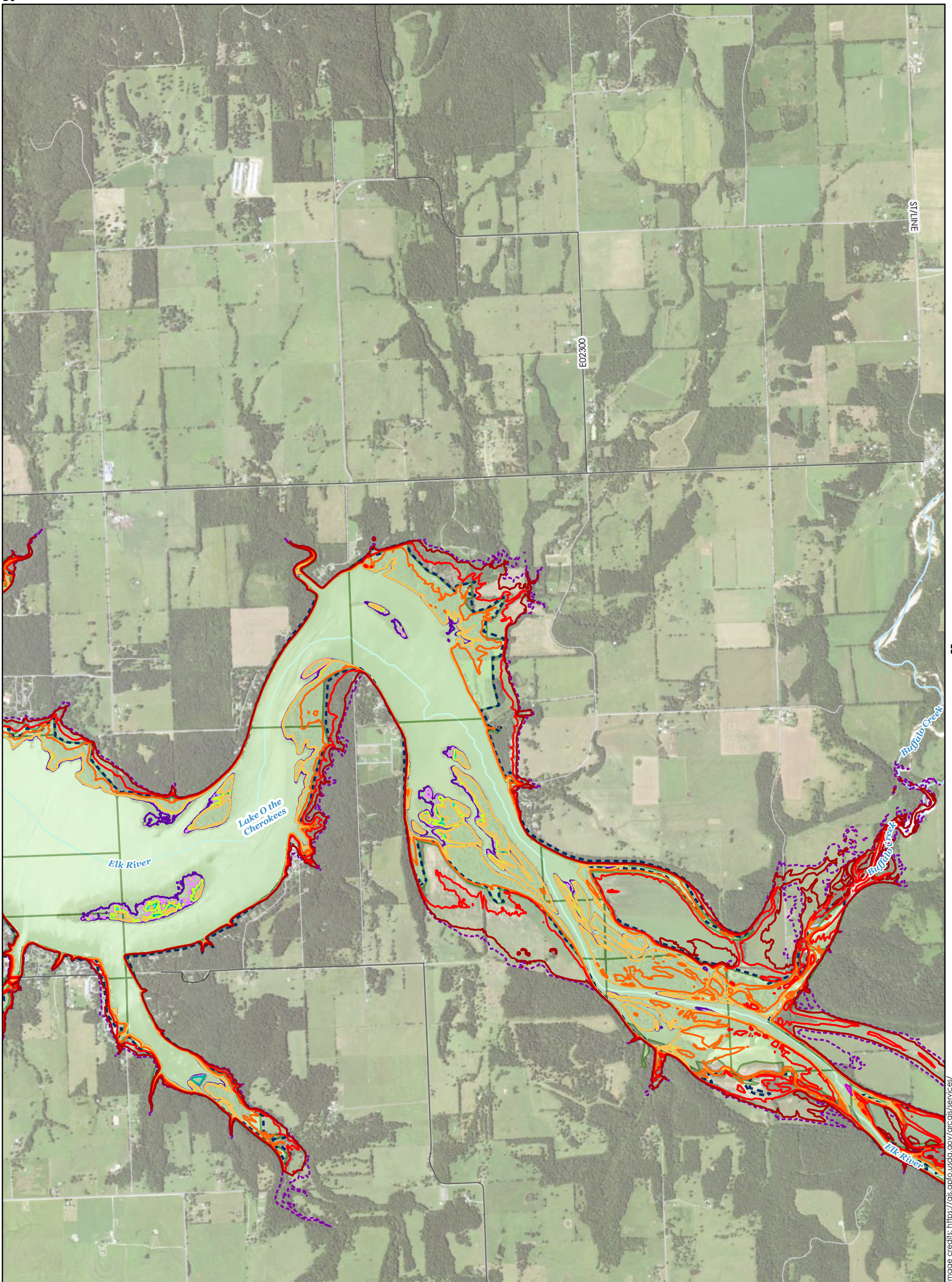
**PENSACOLA DAM**  
**GRAND RIVER DAM AUTHORITY**

**MAP: E6**

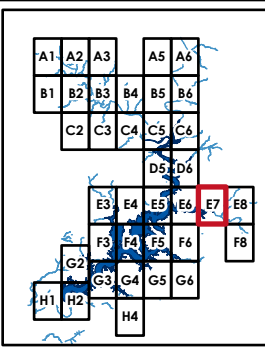
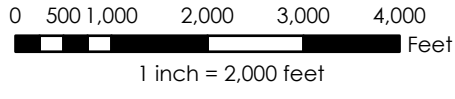
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
 GRAND RIVER DAM AUTHORITY

**MAP: E7**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022



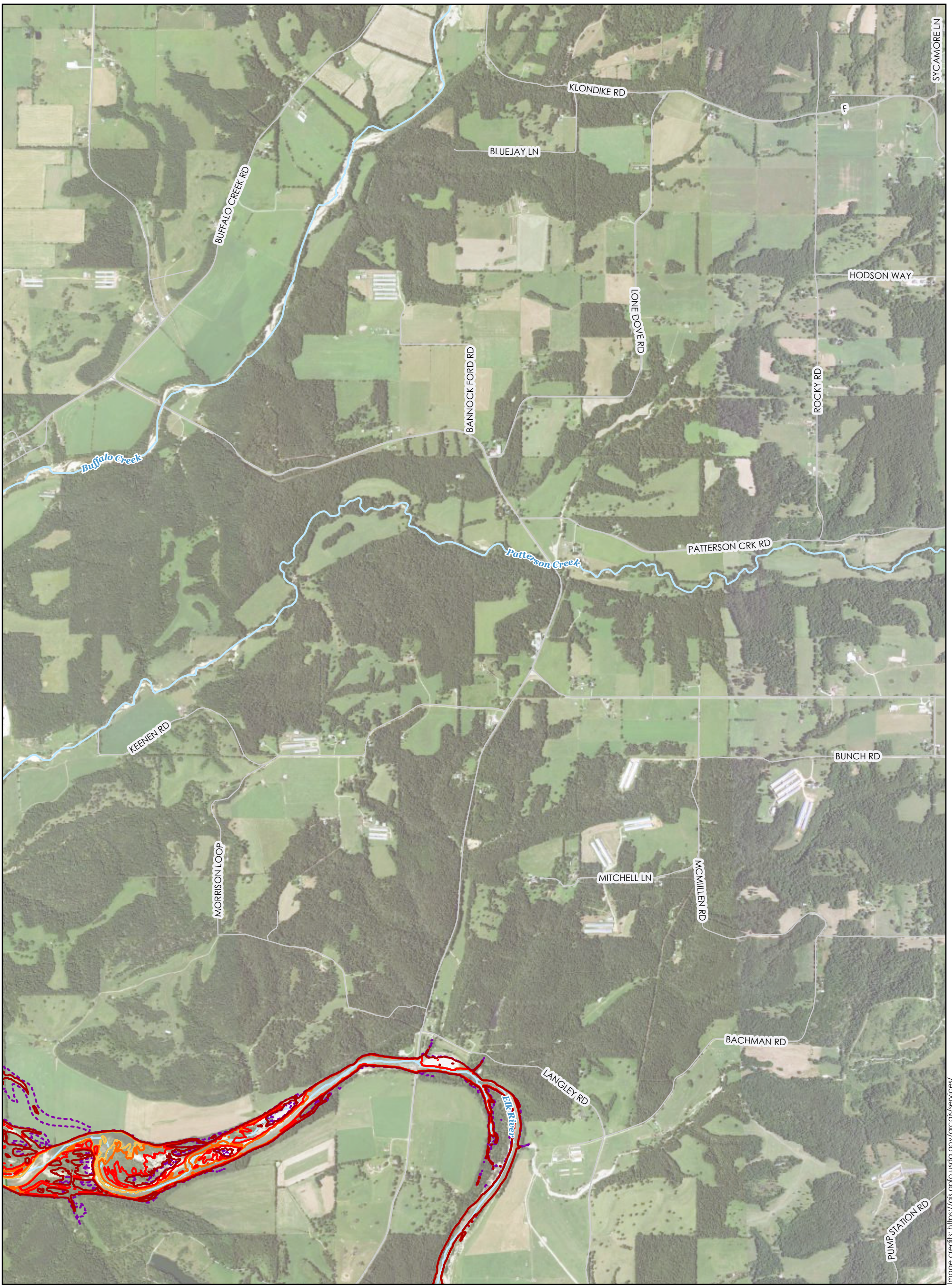
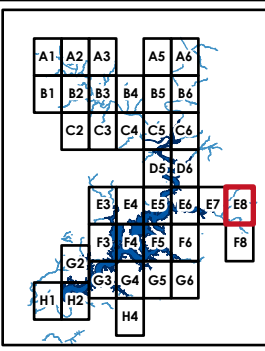
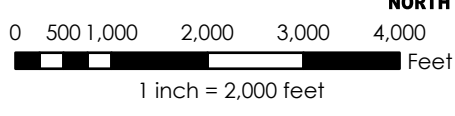


Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2019

F7

F8

### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

**MAP AND LEGEND NOTES**

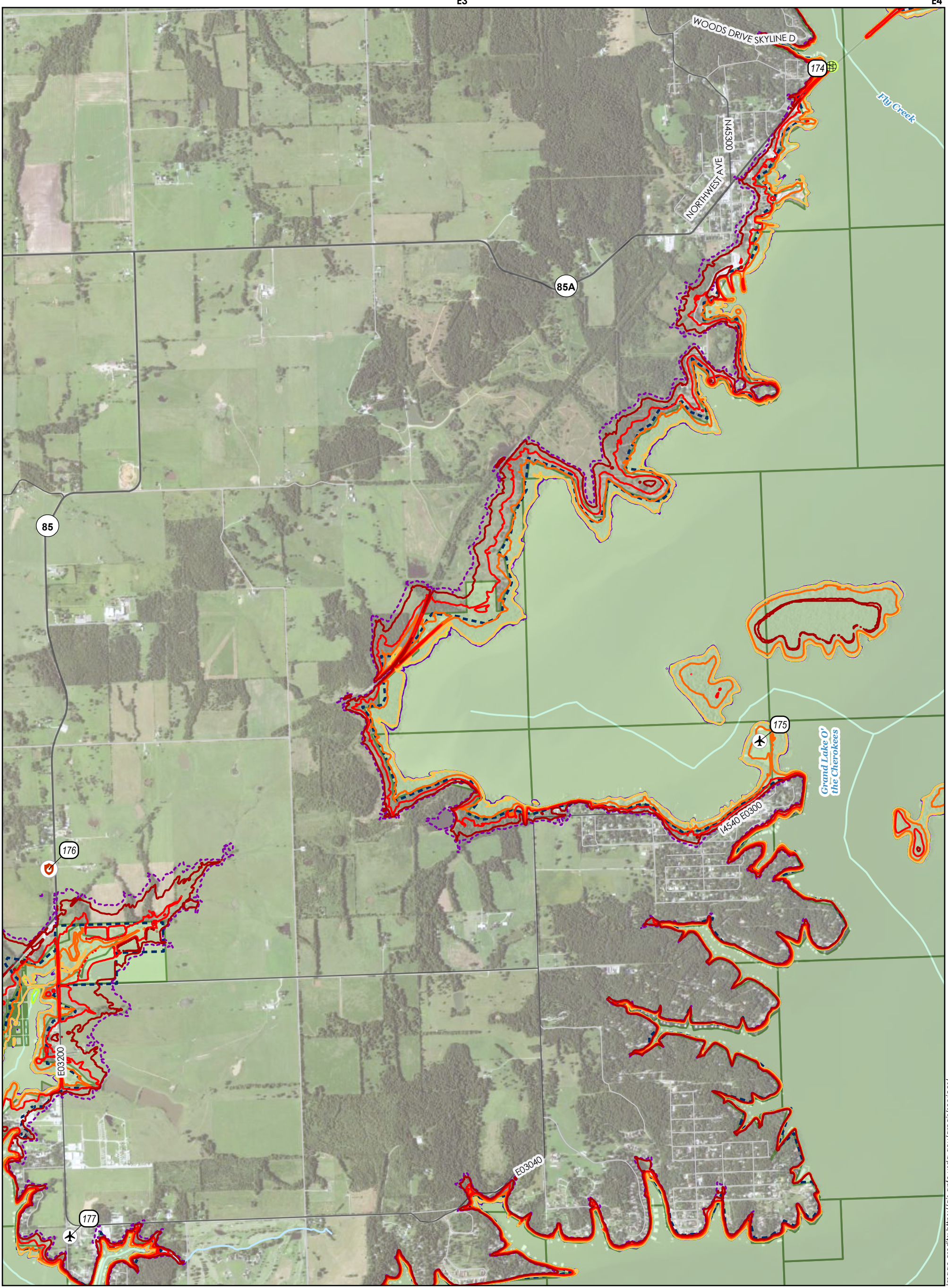
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: E8**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

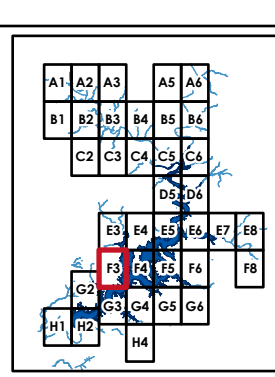


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

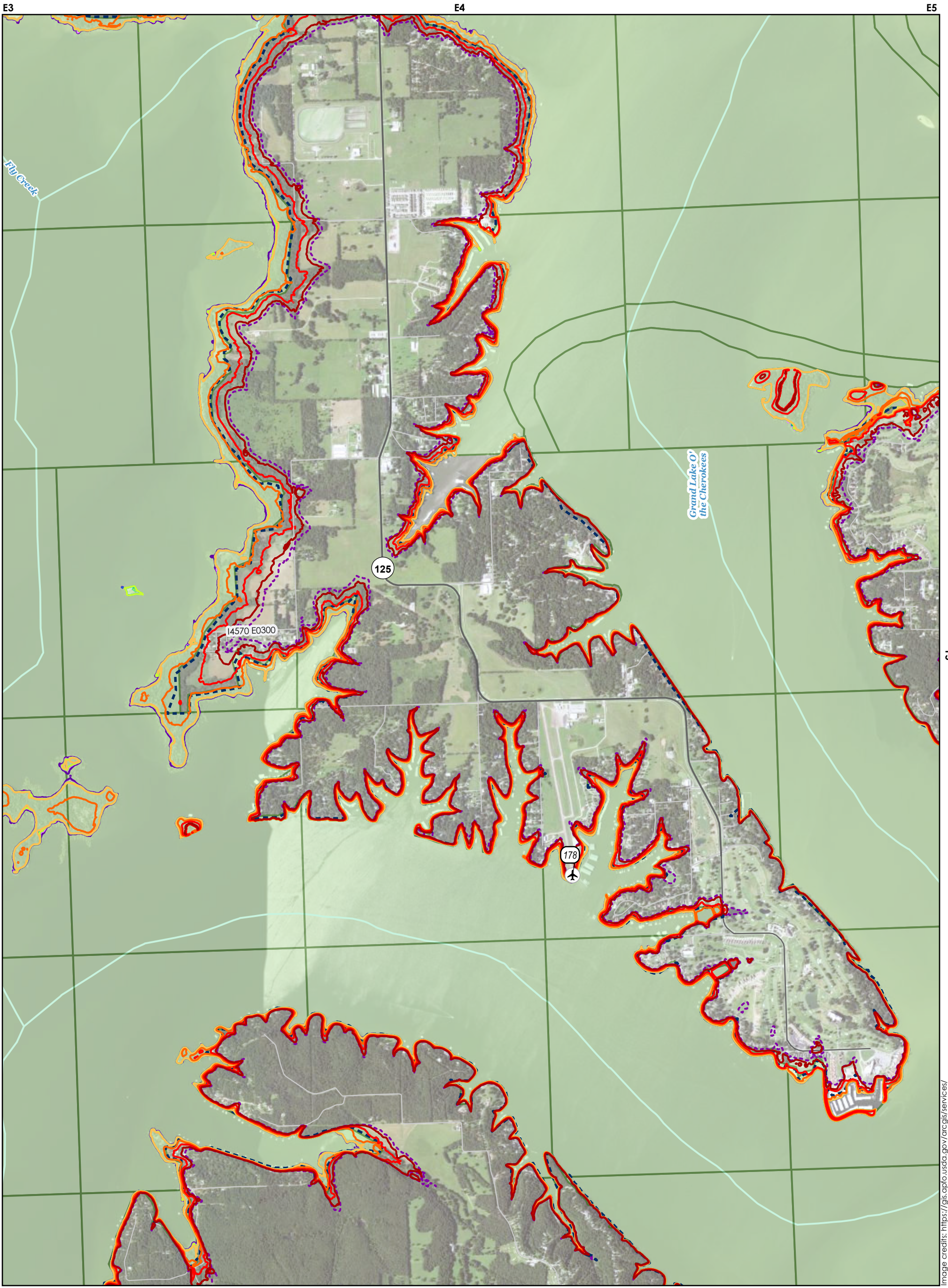
**MAP: F3**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)

NORTH  
↑

0 500 1,000 2,000 3,000 4,000  
Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6		
B1	B2	B3	B4	B5	B6		
C1	C2	C3	C4	C5	C6		
D1	D2	D3	D4	D5	D6		
E1	E2	E3	E4	E5	E6	E7	E8
F1	F2	F3	F4	F5	F6	F7	F8
G1	G2	G3	G4	G5	G6	G7	G8
H1	H2	H3	H4	H5	H6	H7	H8

JUNE 2004 MAX INUNDATION		ROAD CLASS	
<span style="border: 1px solid red; width: 15px; height: 10px; display: inline-block;"></span> 757.0 ft PD	<span style="border: 1px solid cyan; width: 15px; height: 10px; display: inline-block;"></span> 743.5 ft PD	<span style="border-bottom: 2px solid blue; width: 15px; display: inline-block;"></span> Interstate	<span style="border-bottom: 1px solid blue; width: 15px; display: inline-block;"></span> Stream
<span style="border: 1px solid orange; width: 15px; height: 10px; display: inline-block;"></span> 753.0 ft PD	<span style="border: 1px solid blue; width: 15px; height: 10px; display: inline-block;"></span> 743.0 ft PD	<span style="border-bottom: 2px solid grey; width: 15px; display: inline-block;"></span> State Highway	<span style="border-bottom: 1px dashed purple; width: 15px; display: inline-block;"></span> Flowage Easements
<span style="border: 1px solid yellow; width: 15px; height: 10px; display: inline-block;"></span> 749.0 ft PD	<span style="border: 1px solid magenta; width: 15px; height: 10px; display: inline-block;"></span> 742.5 ft PD	<span style="border-bottom: 2px solid brown; width: 15px; display: inline-block;"></span> US Highway	<span style="border: 2px dashed blue; width: 15px; height: 10px; display: inline-block;"></span> Project Boundary
<span style="border: 1px solid lightorange; width: 15px; height: 10px; display: inline-block;"></span> 745.0 ft PD	<span style="border: 1px solid pink; width: 15px; height: 10px; display: inline-block;"></span> 742.0 ft PD	<span style="border-bottom: 2px solid grey; width: 15px; display: inline-block;"></span> Major Collector	<span style="border: 1px solid green; width: 15px; height: 10px; display: inline-block;"></span> GRDA Ownership
<span style="border: 1px solid lightgreen; width: 15px; height: 10px; display: inline-block;"></span> 744.5 ft PD	<span style="border: 1px solid purple; width: 15px; height: 10px; display: inline-block;"></span> 734.0 ft PD	<span style="border-bottom: 2px solid grey; width: 15px; display: inline-block;"></span> Local Road	
<span style="border: 1px solid teal; width: 15px; height: 10px; display: inline-block;"></span> 744.0 ft PD			

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

## PENSACOLA DAM

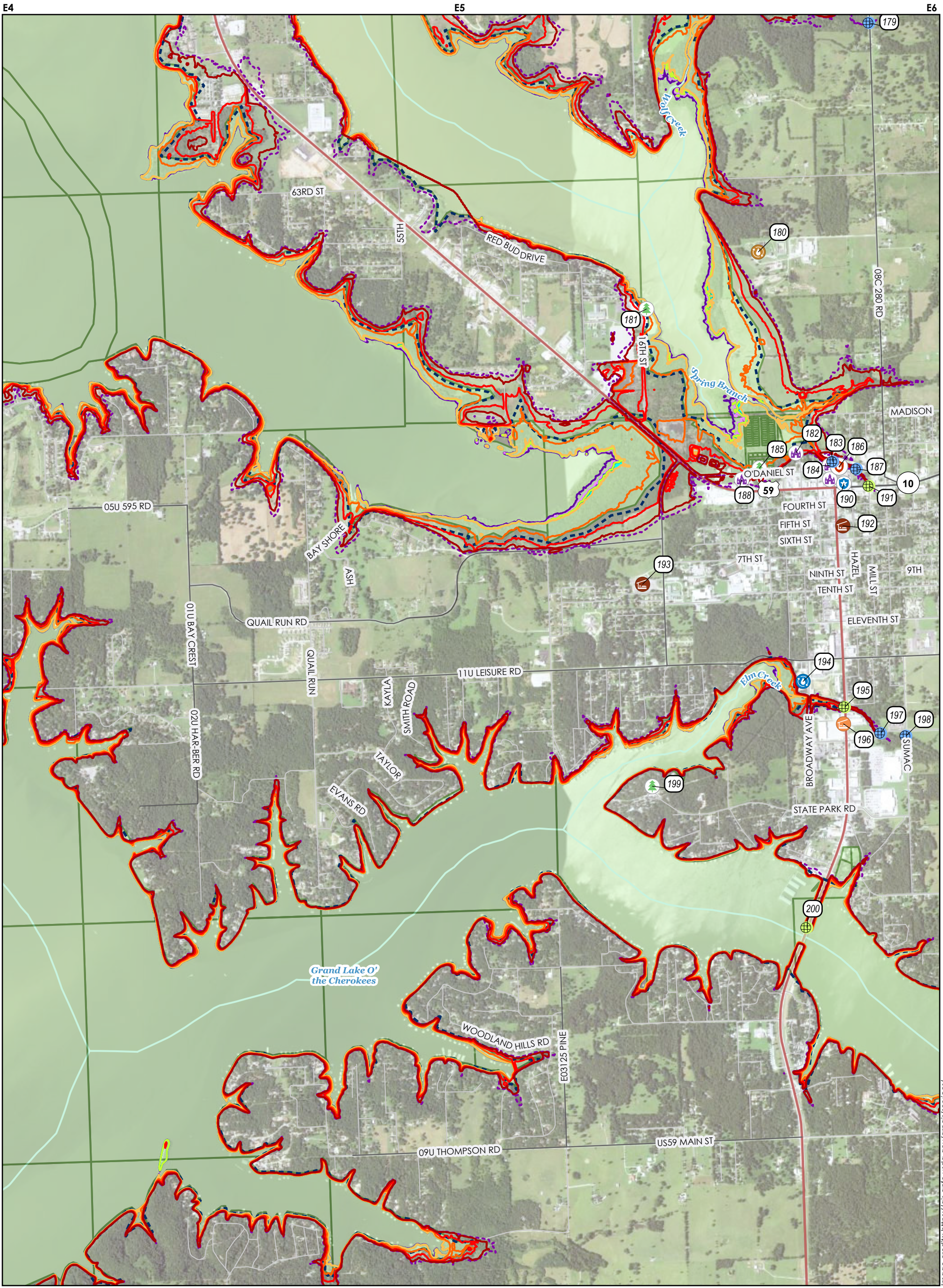
GRAND RIVER DAM AUTHORITY

### MAP: F4

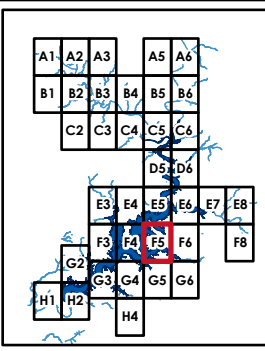
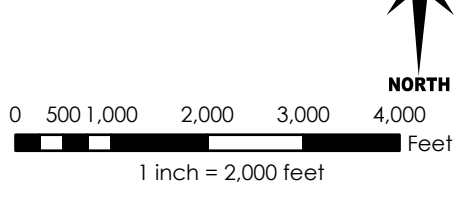
CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

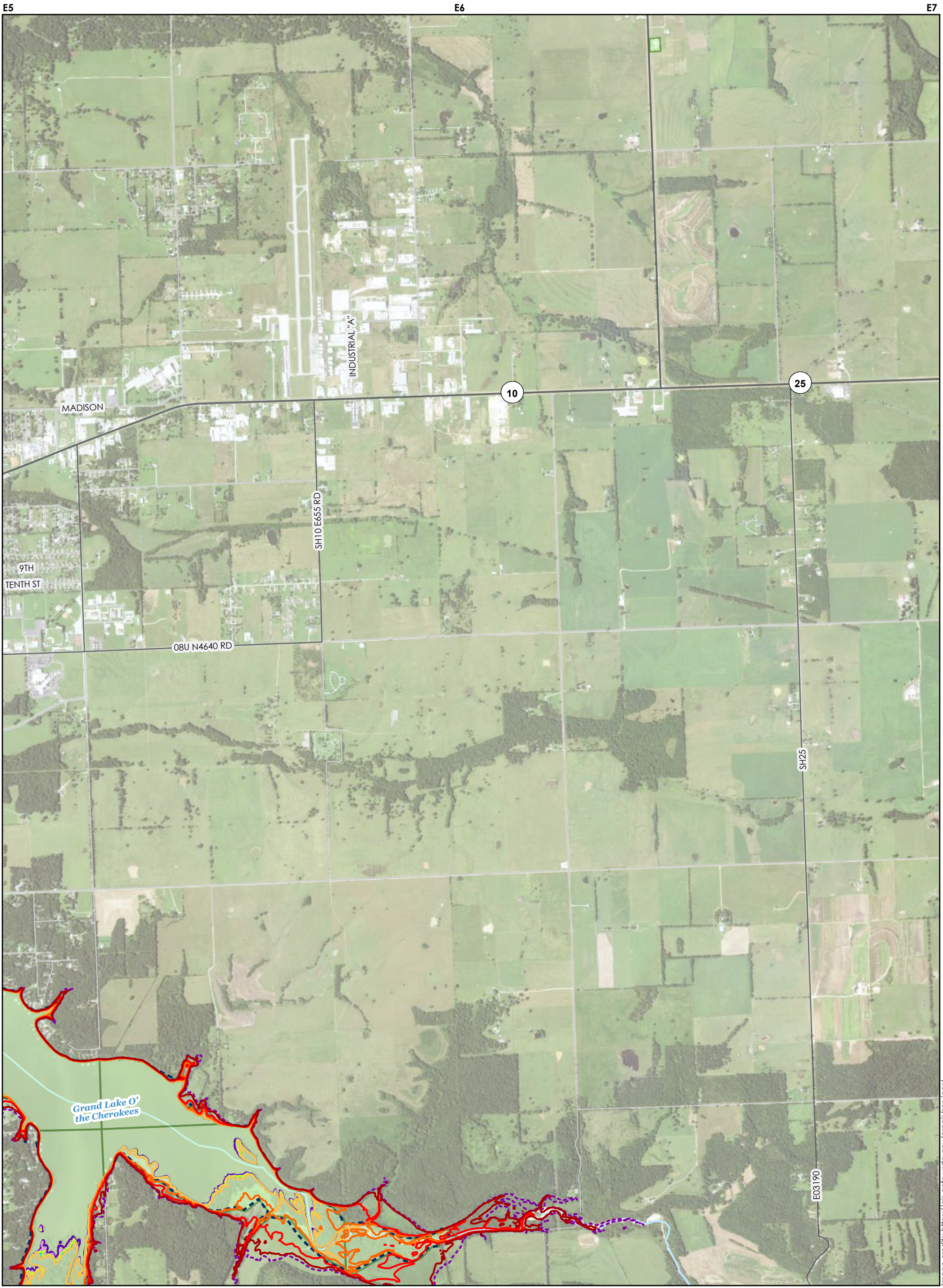
**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: F5**

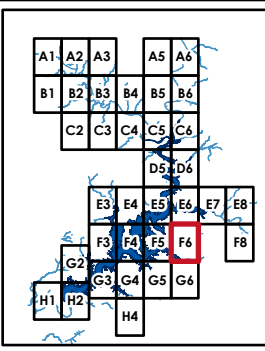
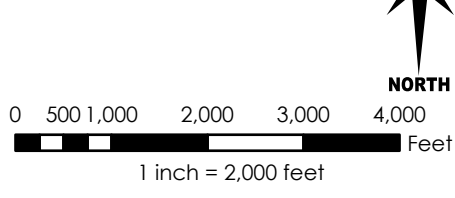
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



JUNE 2004 MAX INUNDATION	
757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

ROAD CLASS	
Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
 GRAND RIVER DAM AUTHORITY

**MAP: F6**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

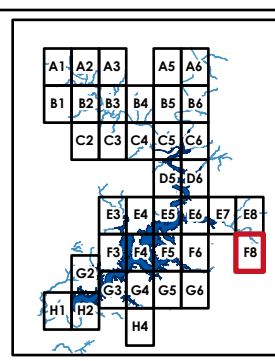


Image credits: [https://gis.dplp.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplp.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet  
1 inch = 2,000 feet



JUNE 2004 MAX INUNDATION	
757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend	
ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

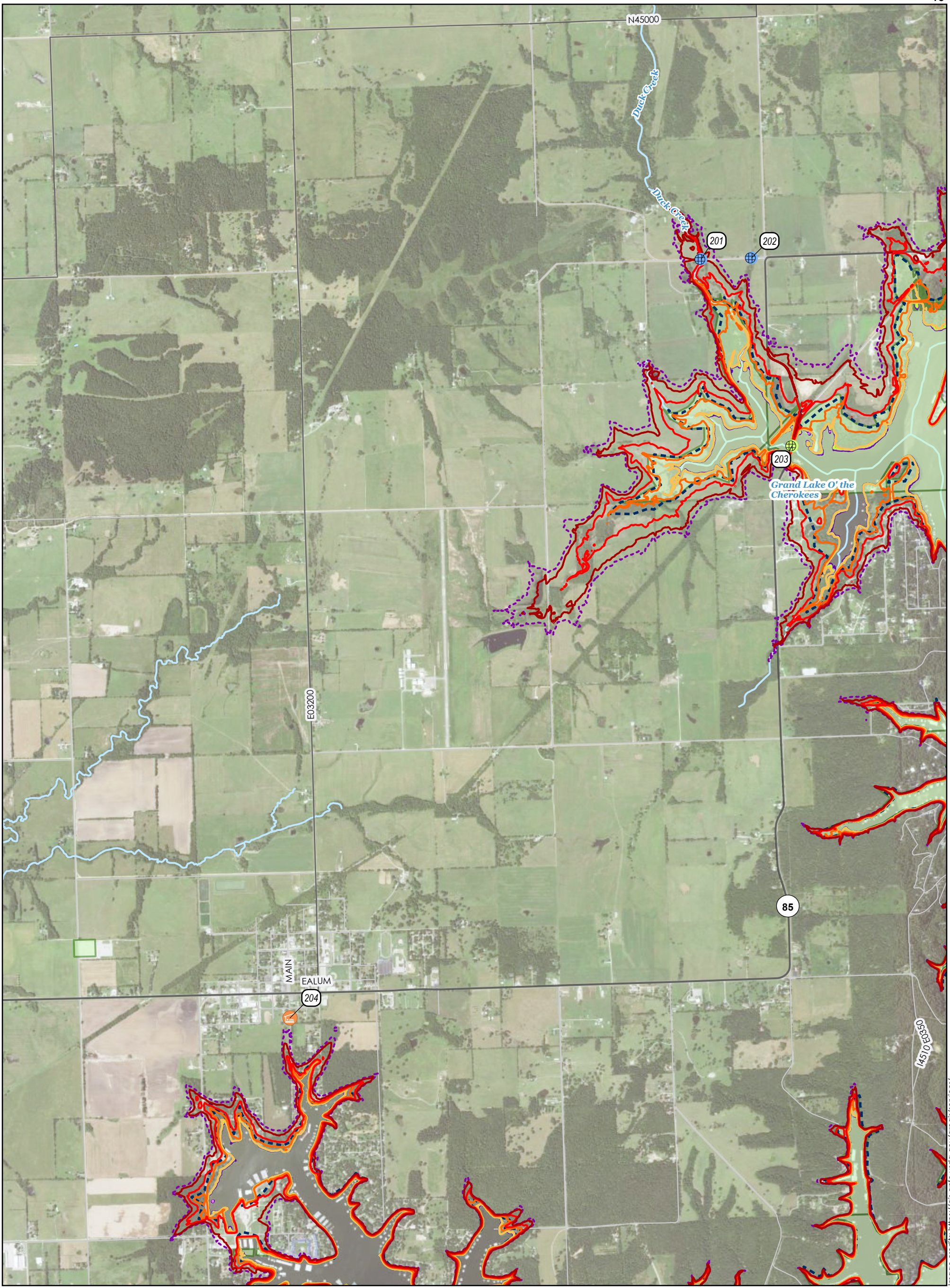
**MAP: F8**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.



G1

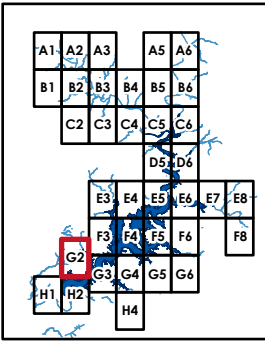
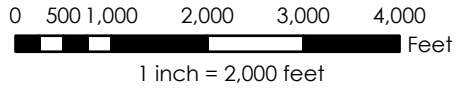
G3

H1

H2

G3

**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

**MAP AND LEGEND NOTES**

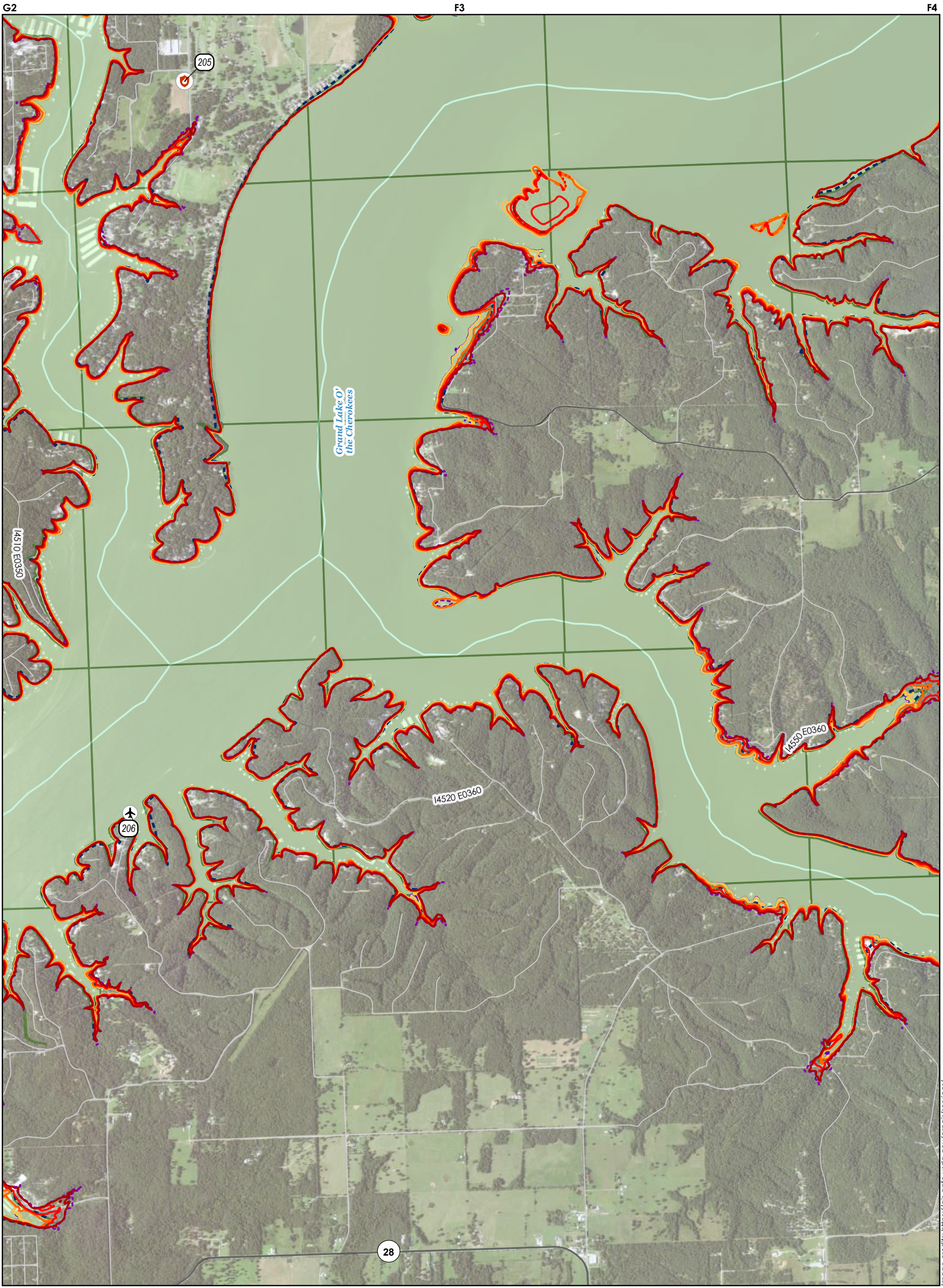
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: G2**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019

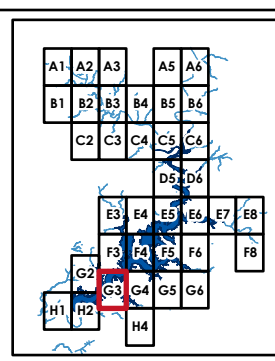


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH** ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**PENSACOLA DAM**  
**GRAND RIVER DAM AUTHORITY**

**MAP: G3**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

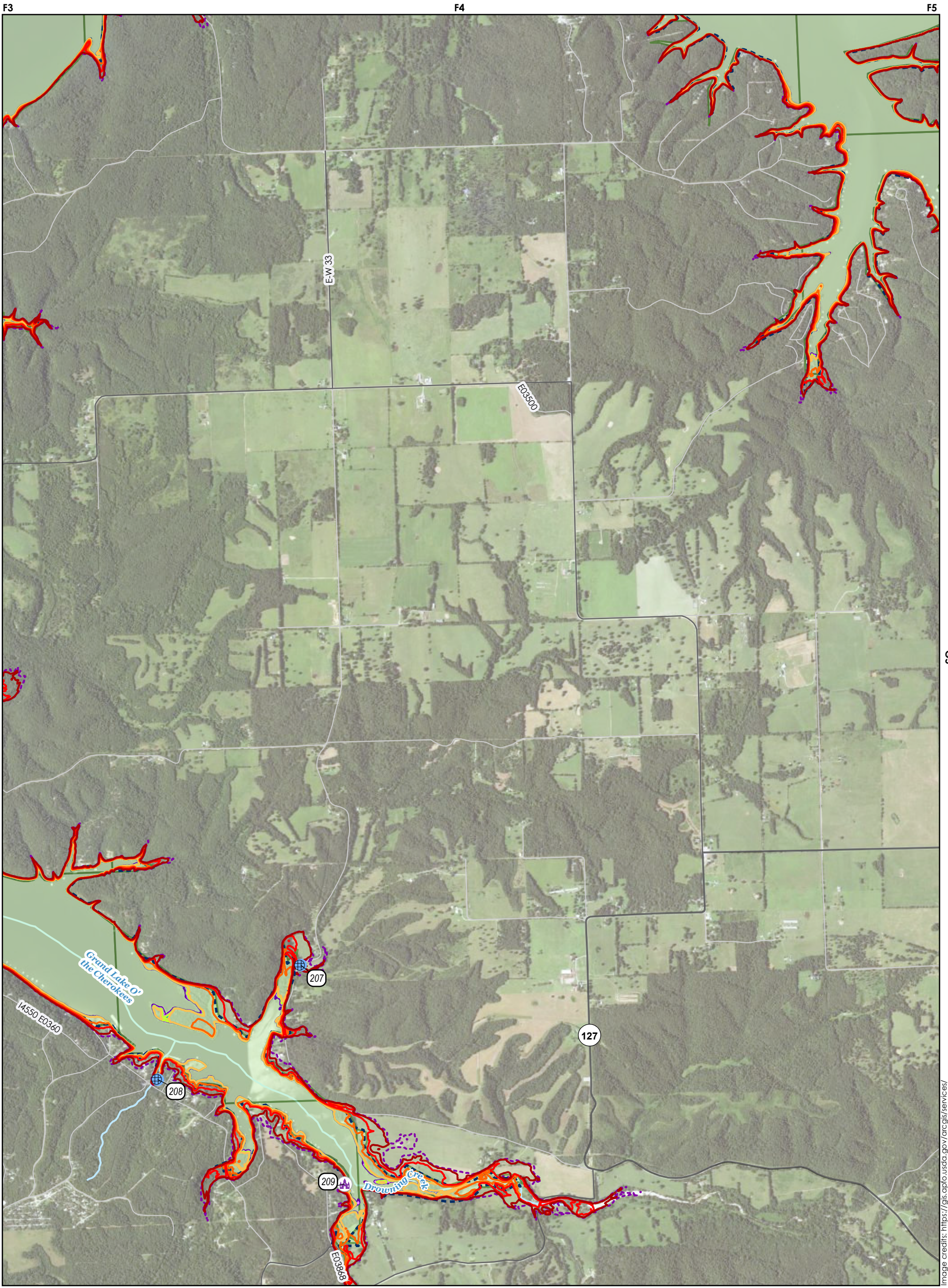
**FERC No. 1494**  
 September 2022

**MAP AND LEGEND NOTES**

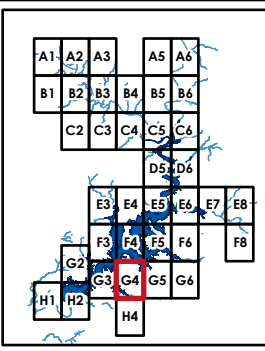
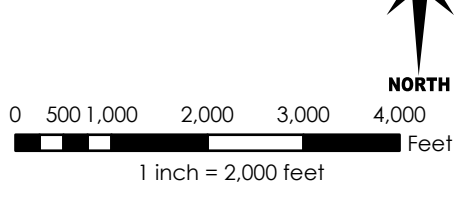
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019





### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)



JUNE 2004 MAX INUNDATION	
<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD
<span style="color: yellow;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD
<span style="color: lightorange;">█</span> 745.0 ft PD	<span style="color: pink;">█</span> 742.0 ft PD
<span style="color: lightgreen;">█</span> 744.5 ft PD	<span style="color: purple;">█</span> 734.0 ft PD
<span style="color: teal;">█</span> 744.0 ft PD	

#### Legend

ROAD CLASS	
<span style="color: blue;">—</span> Interstate	<span style="color: blue;">—</span> Railroad
<span style="color: grey;">—</span> State Highway	<span style="color: blue;">—</span> Stream
<span style="color: red;">—</span> US Highway	<span style="color: purple;">- - -</span> Flowage Easements
<span style="color: grey;">—</span> Major Collector	<span style="color: blue;">- - -</span> Project Boundary
<span style="color: grey;">—</span> Local Road	<span style="color: green;">█</span> GRDA Ownership

#### MAP AND LEGEND NOTES

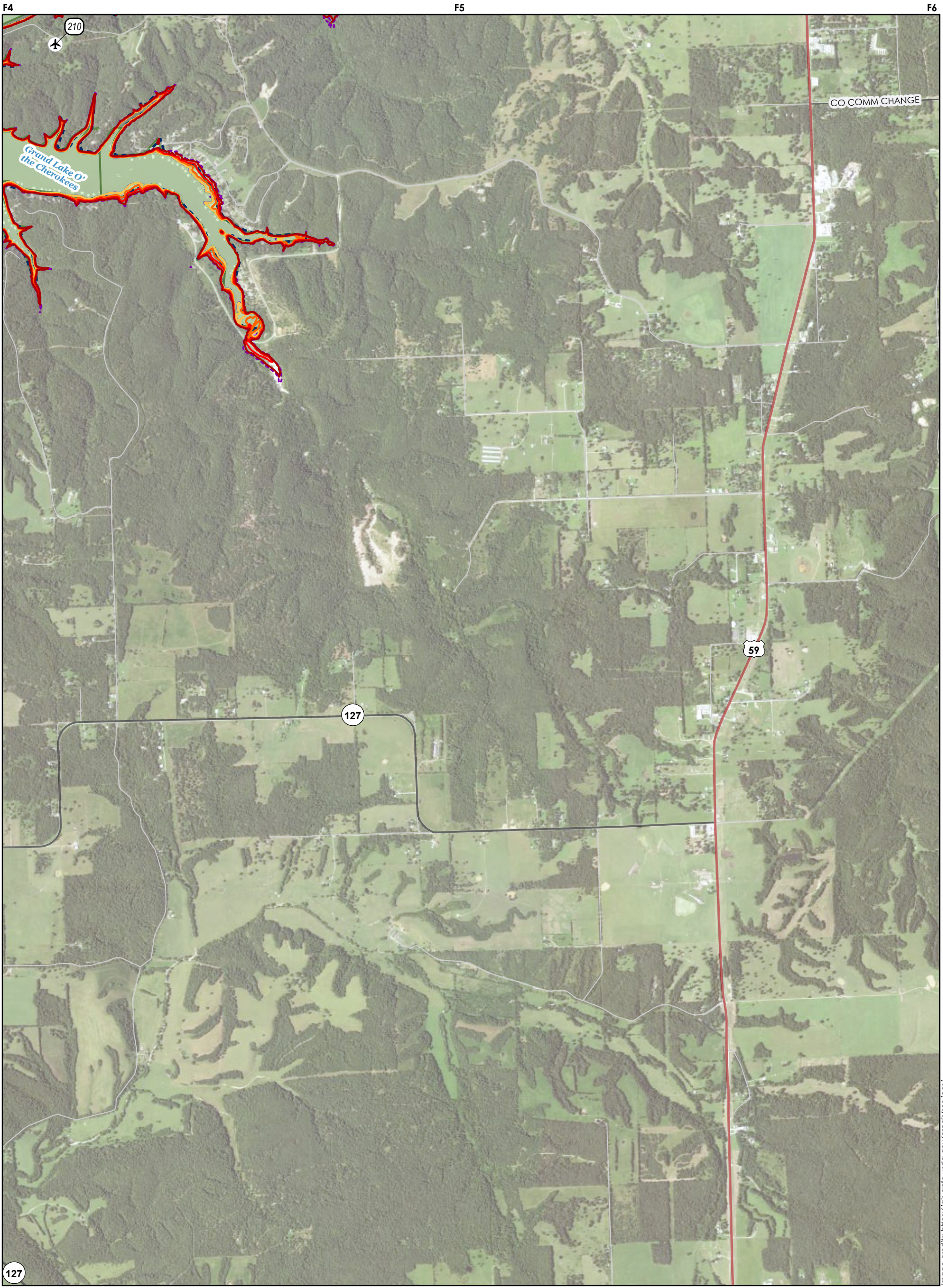
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

### MAP: G4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022

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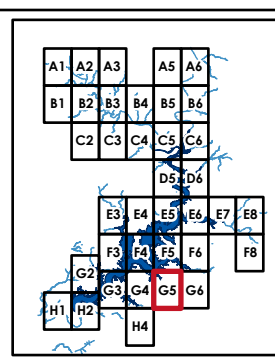


**JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)**

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**MAP AND LEGEND NOTES**

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

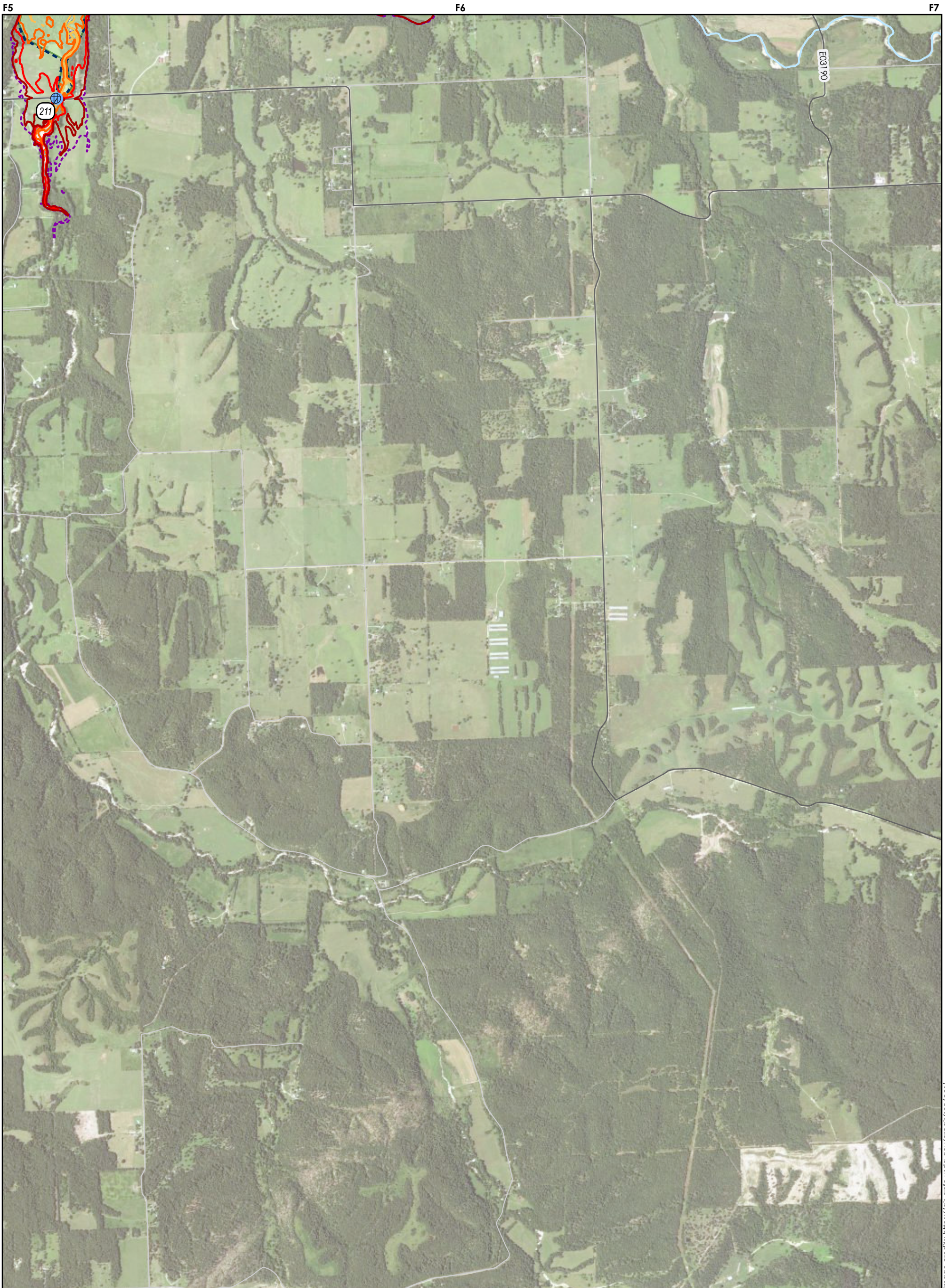
**PENSACOLA DAM**  
**GRAND RIVER DAM AUTHORITY**

**MAP: G5**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
 September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



### JUNE 2004 INUNDATION SCENARIO (1-YEAR EVENT)

**NORTH**

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6
B1	B2	B3	B4	B5	B6
C1	C2	C3	C4	C5	C6
			D5	D6	
		E3	E4	E5	E6
		F3	F4	F5	F6
		G2	G3	G4	G5
		H1	H2	H3	H4

JUNE 2004 MAX INUNDATION		ROAD CLASS	
<span style="color: red;">█</span> 757.0 ft PD	<span style="color: cyan;">█</span> 743.5 ft PD	<span style="color: blue;">█</span> Interstate	<span style="color: blue;">█</span> Stream
<span style="color: orange;">█</span> 753.0 ft PD	<span style="color: blue;">█</span> 743.0 ft PD	<span style="color: grey;">█</span> State Highway	<span style="color: purple;">█</span> Flowage Easements
<span style="color: orange;">█</span> 749.0 ft PD	<span style="color: magenta;">█</span> 742.5 ft PD	<span style="color: red;">█</span> US Highway	<span style="color: blue;">█</span> Project Boundary
<span style="color: orange;">█</span> 745.0 ft PD	<span style="color: magenta;">█</span> 742.0 ft PD	<span style="color: grey;">█</span> Major Collector	<span style="color: green;">█</span> GRDA Ownership
<span style="color: yellow;">█</span> 744.5 ft PD	<span style="color: purple;">█</span> 734.0 ft PD	<span style="color: grey;">█</span> Local Road	
<span style="color: yellow;">█</span> 744.0 ft PD			

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

## PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

### MAP: G6

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

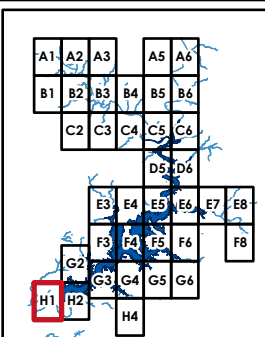
Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA\_CONUS\_PRIME/ImageServer, 2014



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000  
Feet  
1 inch = 2,000 feet



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

**ROAD CLASS**

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

**MAP AND LEGEND NOTES**

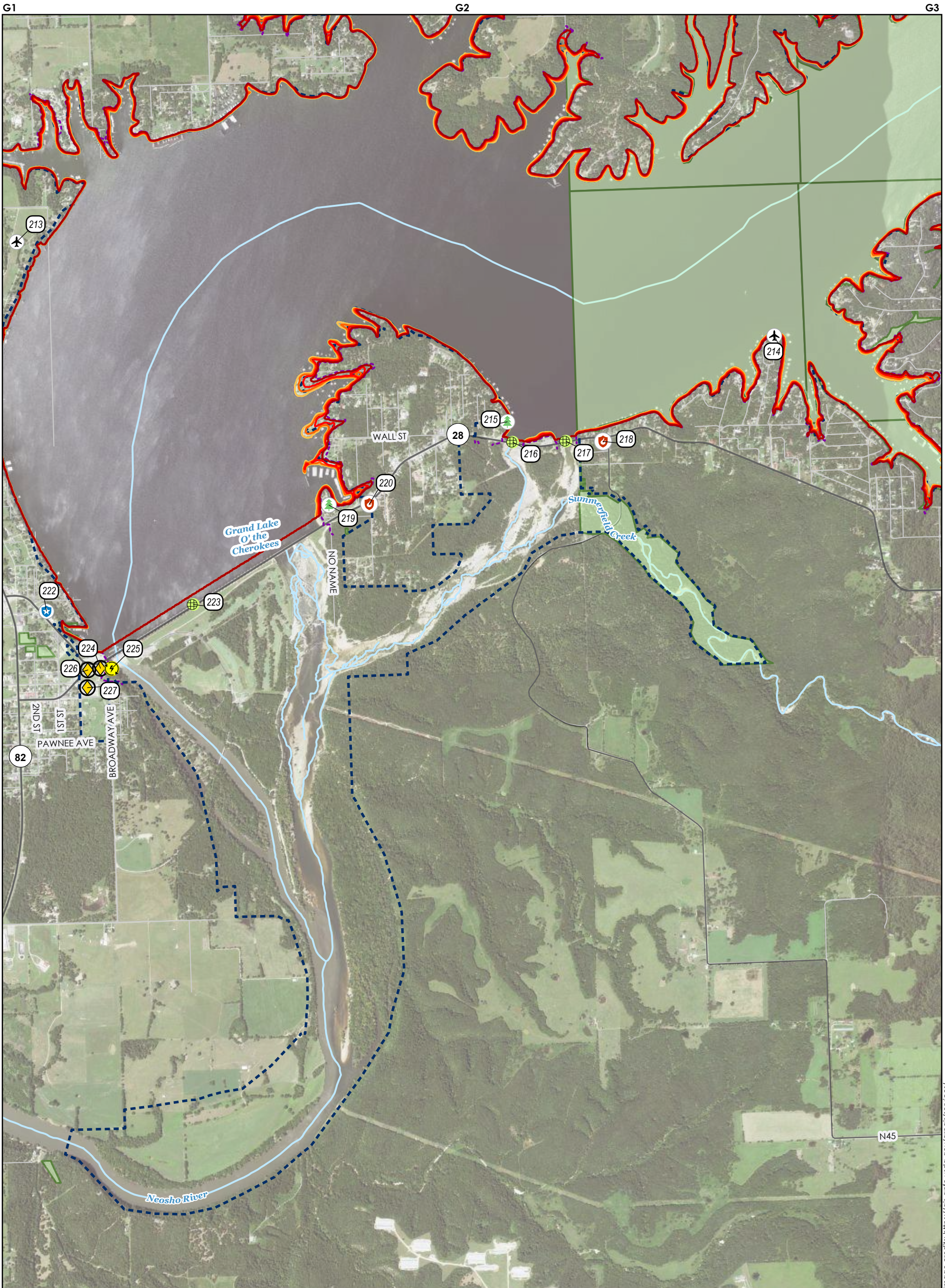
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

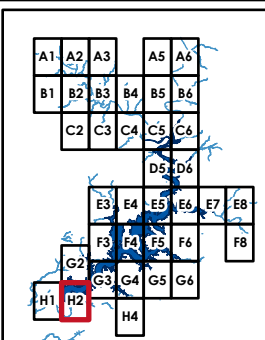
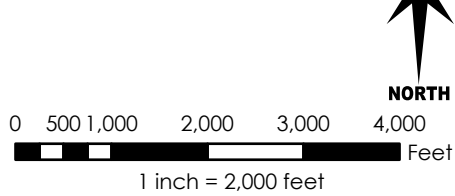
**MAP: H1**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM  
GRAND RIVER DAM AUTHORITY**

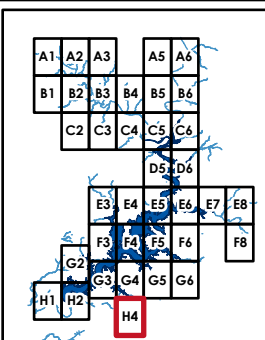
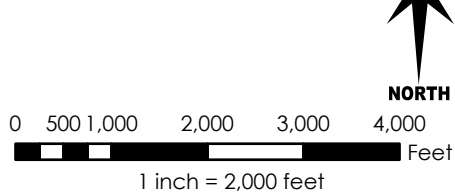
**MAP: H2**

CRAIG, DELAWARE, MAYES, AND  
OTTAWA COUNTIES, OKLAHOMA  
**FERC No. 1494**  
September 2022

Image credits: [https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA\\_CONUS\\_PRIME/ImageServer](https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer), 2019



**JUNE 2004  
INUNDATION SCENARIO  
(1-YEAR EVENT)**



**JUNE 2004 MAX INUNDATION**

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

**Legend**

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

**MAP AND LEGEND NOTES**

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM**  
GRAND RIVER DAM AUTHORITY

**MAP: H4**

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

**FERC No. 1494**  
September 2022

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