

**Pensacola Hydroelectric Project
FERC Project No. 1494**

**Exhibit G
Final Project Boundary Maps**

Final License Application

Prepared for



Prepared by



May 2023

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LIST OF ABBREVIATIONS

Commission	Federal Energy Regulatory Commission
FERC	Federal Energy Regulatory Commission
GRDA	Grand River Dam Authority
NDAA 2020	National Defense Authorization Act for Fiscal Year 2020
NGVD	National Geodetic Vertical Datum 1929
PD	Pensacola Datum
Project	Pensacola Hydroelectric Project
USACE	U. S. Army Corps of Engineers

1. Project Boundary Definition

In accordance with 18 CFR § 4.41(h)(2) the project boundary must enclose all project works and other features that are to be licensed as described in Exhibit A of this application. In addition, the project boundary “must enclose only those lands necessary for operation and maintenance of the project and for other project purposes, such as recreation, shoreline control, or protection of environmental resources.”

2. Project Purpose

The Pensacola Hydroelectric Project (Project) is owned and operated by Grand River Dam Authority (GRDA), which is a non-appropriated agency of the State of Oklahoma, created by the Oklahoma legislature in 1935 to be a “conservation and reclamation district for the waters of the Grand River.” As licensed by the Federal Energy Regulatory Commission (FERC), the Project serves multiple purposes, including hydropower generation, water supply, public recreation, and wildlife enhancement.

GRDA operates and maintains five FERC-approved recreation sites at the Project including: (1) Duck Creek Bridge Public Access Area; (2) Seaplane Base Public Access; (3) Monkey Island Public Boat Ramp; (4) Big Hollow Public Access; and (5) Wolf Creek Public Access. These facilities provide public access to Grand Lake for boating, fishing, and other recreational activities.

As directed by Congress under the Flood Control Act of 1944¹, and the National Defense Authorization Act for Fiscal Year 2020 (NDAA 2020)², the U.S. Army Corps of Engineers (USACE) has exclusive jurisdiction over Grand Lake for flood control purposes, which initiates when the USACE believes the reservoir elevation will exceed 745 feet Pensacola Datum³ (PD). The exclusive USACE jurisdiction is not a Project purpose. Therefore, lands required for flood control purposes are not included in the boundary of the Project. In fact, Congress in NDAA 2020 section 7612 expressly directs that the licensing jurisdiction of the Commission over the project “shall not extend to any land or water outside the project boundary,” as that boundary was positioned as of the December 20, 2019 enactment of NDAA.⁴ Instead, Congress in NDAA section 7612 directed that lands and waters outside the Project boundary “shall not be considered to be part of the project.”⁵

3. Description of Project Boundary

The Project boundary contained in this exhibit has been updated in the areas downstream of the confluence of the Spring and Neosho Rivers using current terrain information. It follows a contour of 750 feet National Geodetic Vertical Datum 1929 (NGVD)⁶ except in areas where either metes and bounds descriptions or parcel lines are followed to include other areas lands and waters necessary for Project purposes. Upstream of the confluence of the Neosho and Spring Rivers, the Project boundary remains the same as the boundary under the current license except for locations where the current boundary does

¹ 33 U.S.C. § 709.

² Pub. L. No. 116-92, § 7612(b)(2).

³ 745 feet PD is 746.07 feet NGVD.

⁴ Pub. L. No. 116-92, § 7612(b)(3)(A); see *Gozlon-Peretz v. United States*, 498 U.S. 395 (1991); *Lapeyre v. United States*, 84 U.S. 191, 198 (1872); *United States v. Begay*, 133 F.3d 933 (10th Cir. 1998); *Bradshaw v. Story*, 86 F.3d 164, 166 (10th Cir. 1996).

⁵ Pub. L. No. 116-92, § 7612(b)(3)(B).

⁶ GRDA ownership in the portion of the reservoir downstream of the confluence of the Neosho and Spring Rivers in many areas approximates 750 feet NGVD.

not encompass the reservoir area. In these cases, the boundary is corrected in those specific locations. The Project Boundary encompasses all Project facilities and works, Project recreation areas, and a shoreline buffer.

Although NDAA 2020 section 7612(b)(3)(C), as described above, strictly provides that lands and waters that were outside the Project boundary as of the December 20, 2019 enactment of NDAA 2020 are beyond the Commission's jurisdiction and are not to be considered part of the FERC-licensed Project, NDAA 2020 establishes a mechanism for bringing lands into the Project boundary in the future, providing:

The Commission may, consistent with the requirements of the Federal Power Act, amend the project boundary, only with the expressed written agreement of the project licensee. If the licensee does not agree to a project boundary change proposed by the Commission, the purposes and requirements of part I of the Federal Power Act (16 U.S.C. 791a et seq.) shall be deemed to be satisfied without the Commission's proposed boundary or jurisdiction change.⁷

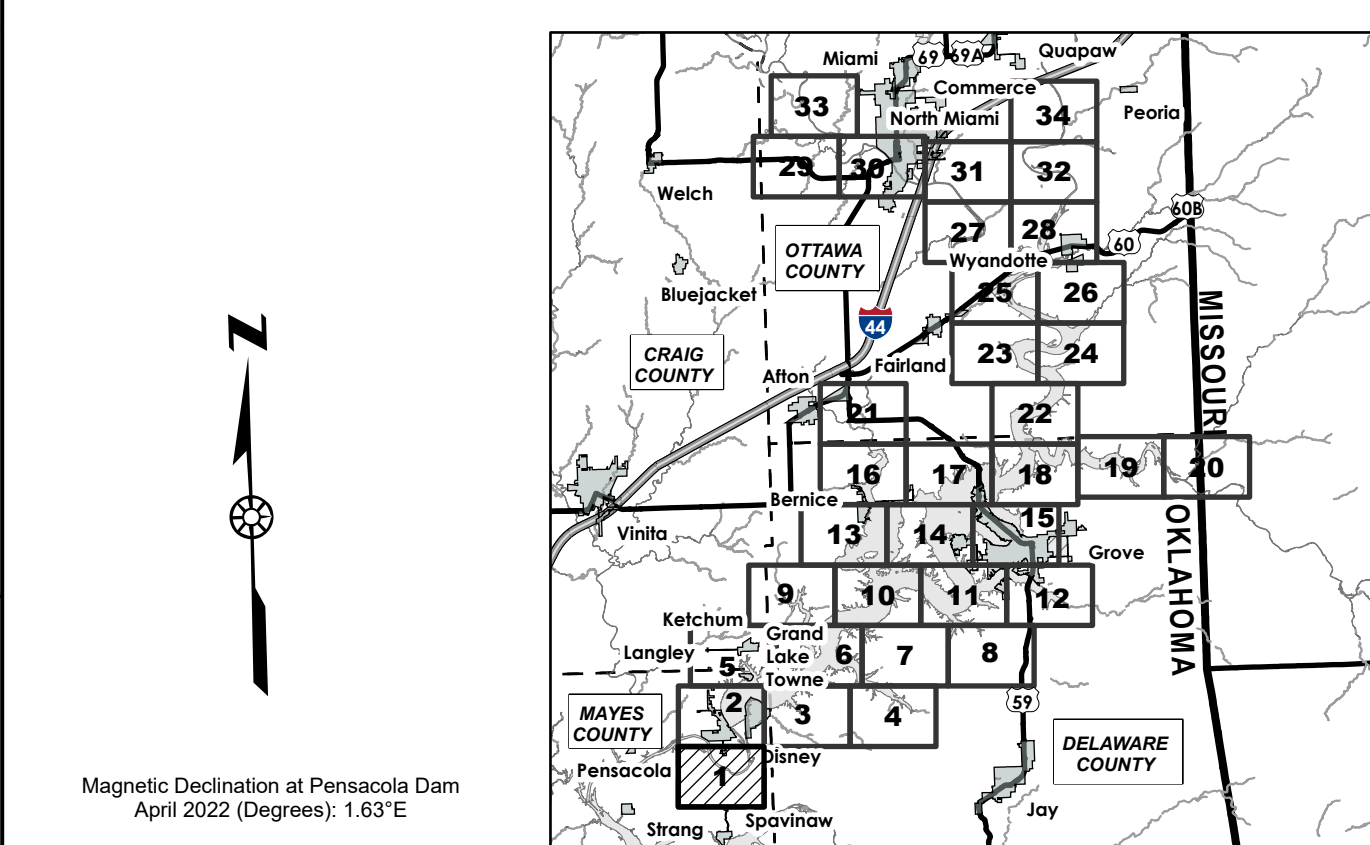
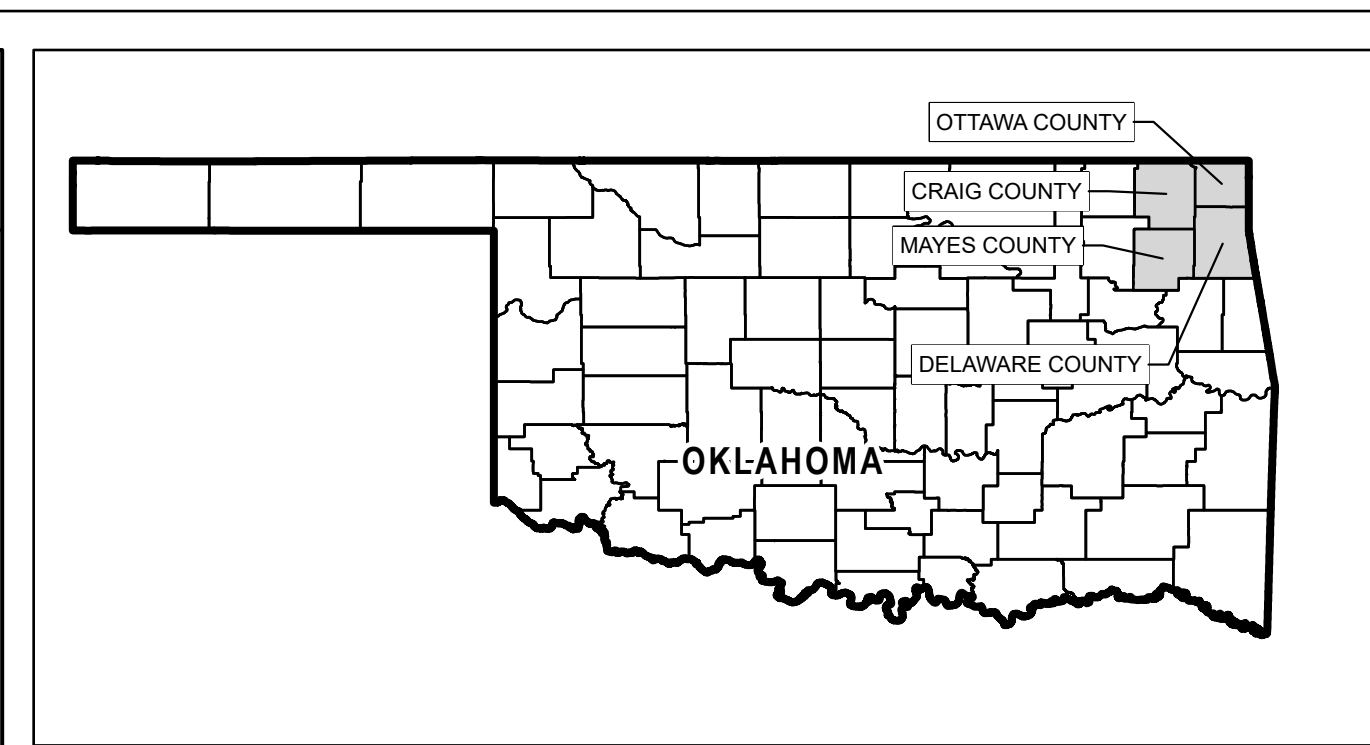
Under this provision, the Commission is authorized under NDAA 2020 section 7612 to expand the Project boundary, but only upon GRDA's written consent.

Accordingly, as required by NDAA 2020 section 7612(b)(3)(C), GRDA hereby consents to the proposed Project boundary changes set forth in the Exhibit G maps of this FLA.

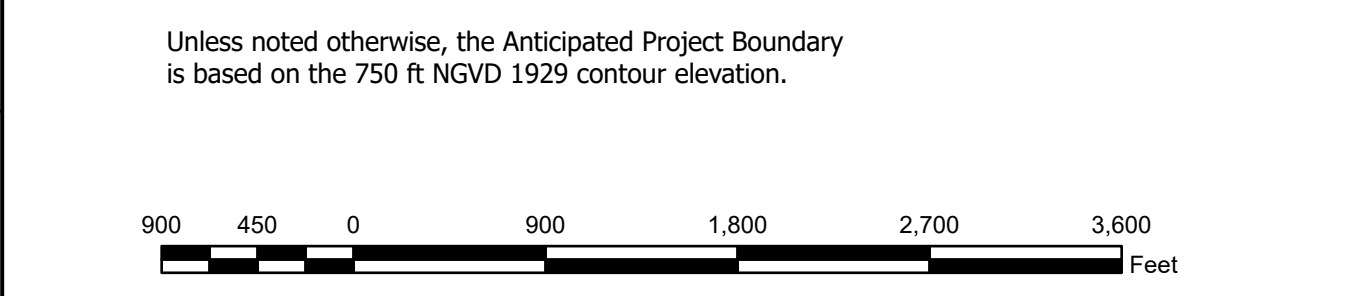
4. Project Boundary Maps

To conform to the Commission's restriction of a scale no smaller than one-inch equals 1,000 feet for the project boundary for maps and drawings under 18 CFR § 4.39(b), the boundary maps are divided into 36 individual maps attached herein as an electronic file. Under the requirements of 18 CFR § 4.41(h), the boundary information is provided as separate files in geo-referenced electronic format and is positionally accurate to ±40 feet.

⁷ Pub. L. No. 116-92, § 7612(b)(3)(C).



Legend



Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 1

GRAND RIVER DAM AUTHORITY LANGLEY, OKLAHOMA

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

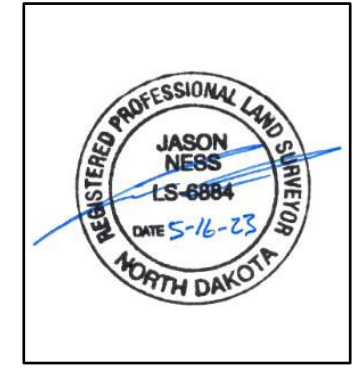
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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5/16/2023
DATE

JASON NESS

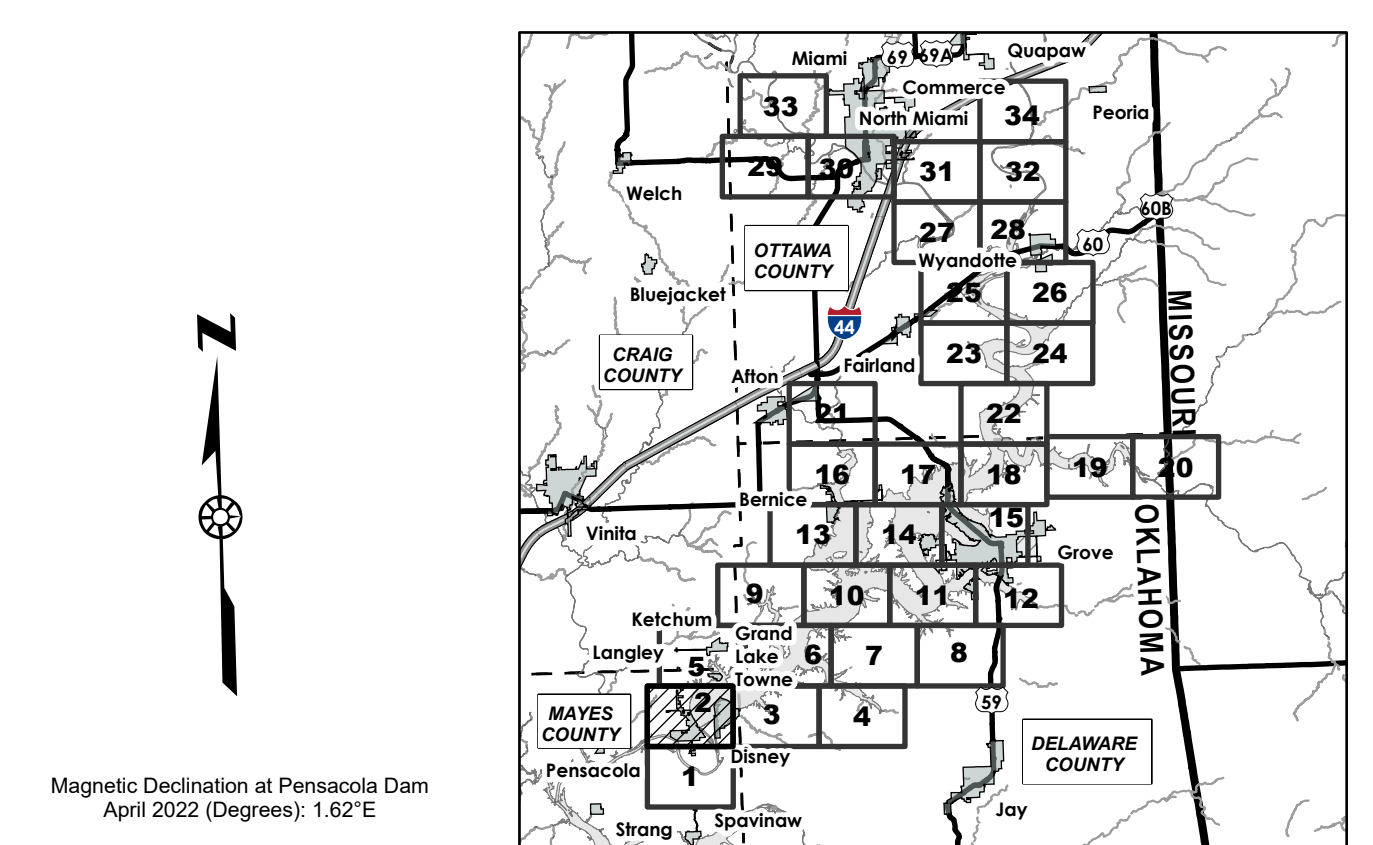
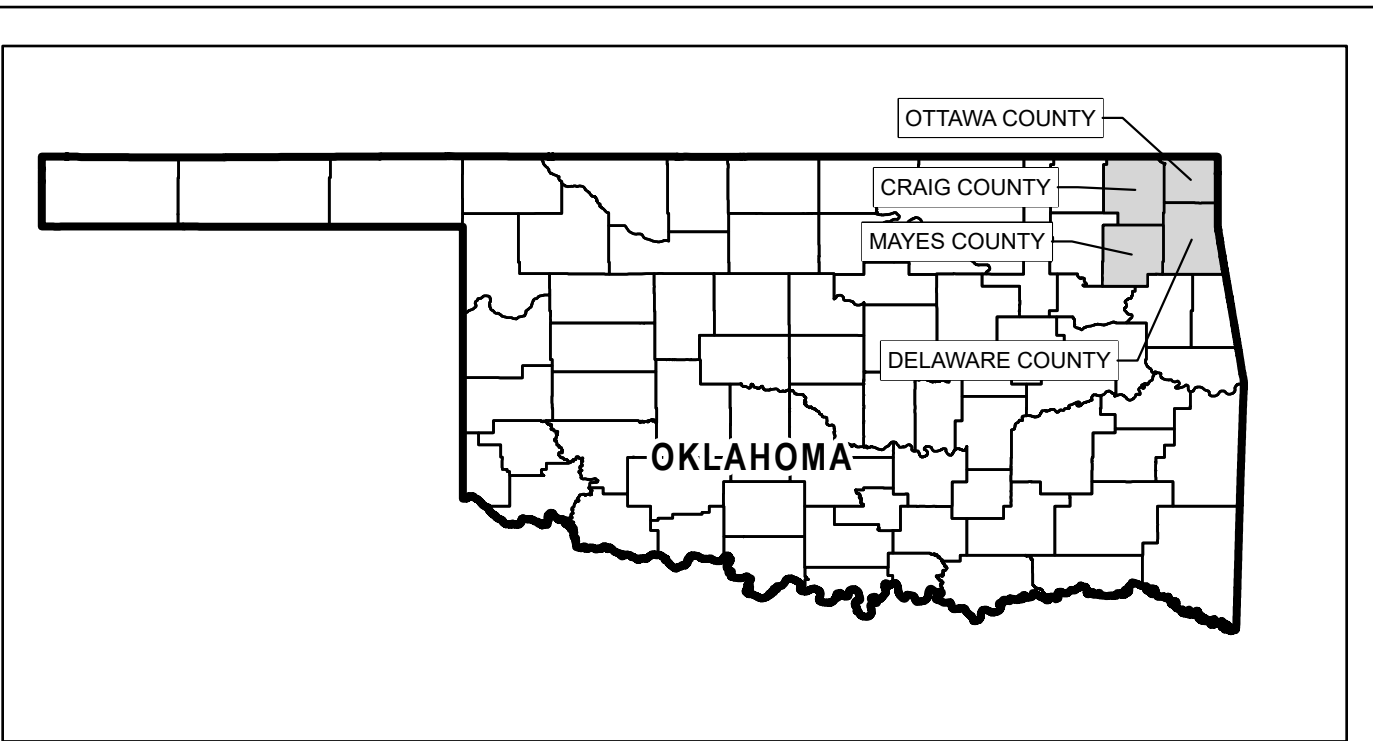
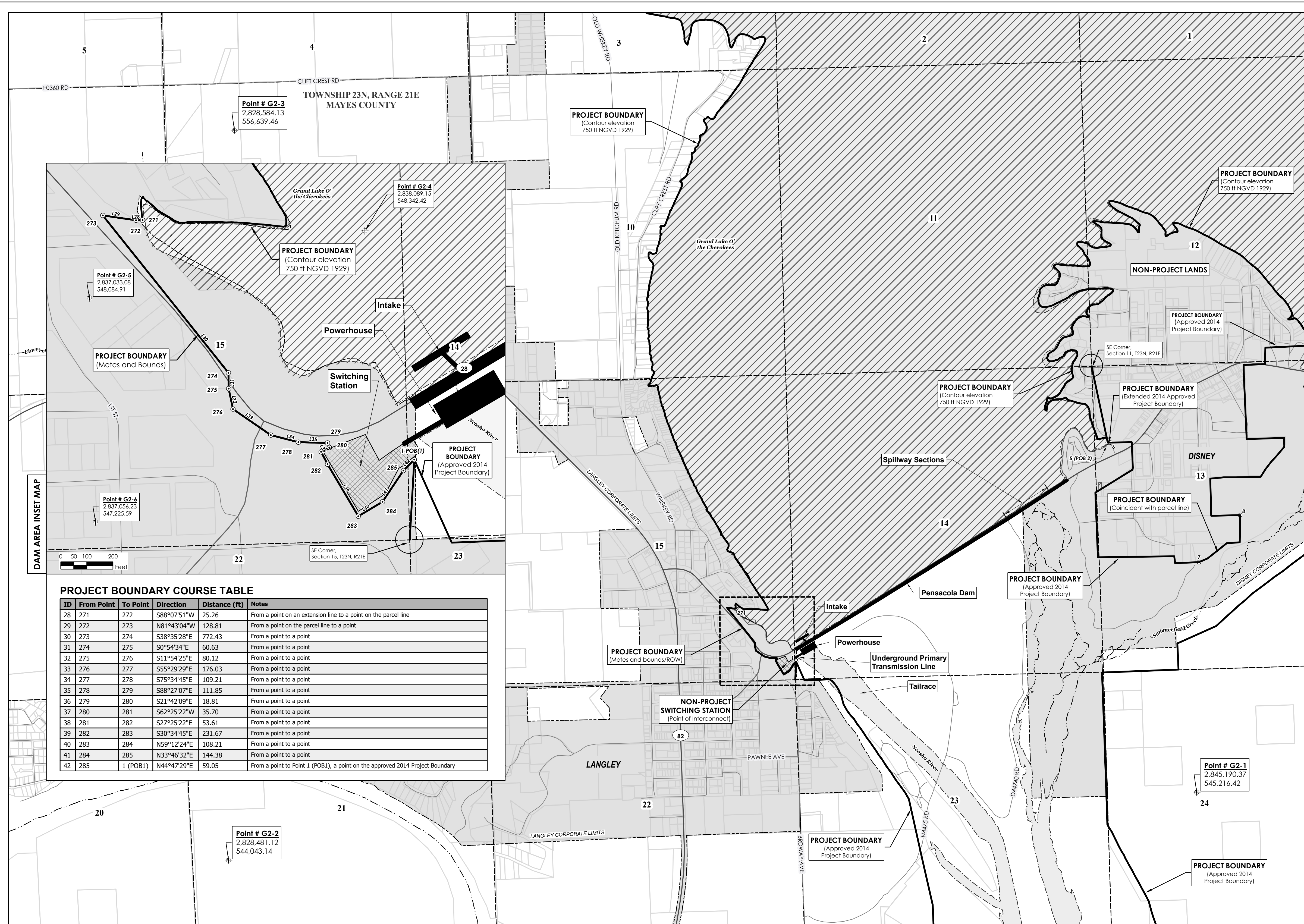


MAP NOTES

- Assessor data from Mayes, Ottawa, Delaware, and Craig counties is current as of June 2022. Any inaccuracies are in the original datasets. Interpretation of ownership designations is based on descriptive data provided in the Assessors' data. No additional research was conducted to validate the accuracy of the information.
- The Reservoir shown was developed from the 745 ft Pensacola Datum (PD) contour. Contours (745 ft PD and 750 ft NGVD) were used as a basis for the Project boundary were derived from the Digital Elevation Model (DEM) developed for the Upstream Hydraulic Model (UHM).
- When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.

PROJECT BOUNDARY DEFINITION

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- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
- Portions of the anticipated project boundary labeled as "Coincident with parcel line" are intended to follow a parcel boundary. See Map Note #1 for more information on parcel data sources.
- Portions of the anticipated project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.



Legend

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900 450 0 900 1,800 2,700 3,600 Feet

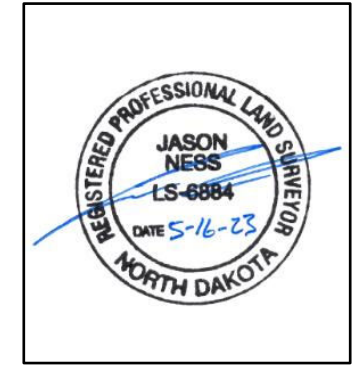
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PROJECT BOUNDARY COURSE TABLE

ID	From Point	To Point	Direction	Distance (ft)	Notes
28	271	272	S88°07'51"W	25.26	From a point on an extension line to a point on the parcel line
29	272	273	N81°43'04"W	128.81	From a point on the parcel line to a point
30	273	274	S38°35'28"E	772.43	From a point to a point
31	274	275	S0°54'34"E	60.63	From a point to a point
32	275	276	S11°54'25"E	80.12	From a point to a point
33	276	277	S55°29'29"E	176.03	From a point to a point
34	277	278	S75°34'45"E	109.21	From a point to a point
35	278	279	S88°27'07"E	111.85	From a point to a point
36	279	280	S21°42'09"E	18.81	From a point to a point
37	280	281	S62°25'22"W	35.70	From a point to a point
38	281	282	S27°25'22"E	53.61	From a point to a point
39	282	283	S30°34'45"E	231.67	From a point to a point
40	283	284	N59°12'24"E	108.21	From a point to a point
41	284	285	N33°46'32"E	144.38	From a point to a point
42	285	1 (POB1)	N44°47'29"E	59.05	From a point to Point 1 (POB1), a point on the approved 2014 Project Boundary

SURVEYOR'S STATEMENT
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JASON NESS
 5/16/2023
 DATE



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- Public Land Survey System (PLSS) obtained from the Oklahoma Water Resources Board (<https://home-owrb.opendata.arcgis.com/>).
- National Hydrography Dataset (NHD) data (streams and lakes) were obtained from the National Map Download application (TNM Download at <https://viewer.nationalmap.gov/basic/#/>).
- Transportation network, county and municipal boundaries from the Oklahoma Department of Transportation GIS Open Data Portal (<https://gis-odot.opendata.arcgis.com/>).
- Federal lands shown were developed from Bureau of Indian Affairs (BIA) parcel data and Wetland Reserve Program (WRP) easements.

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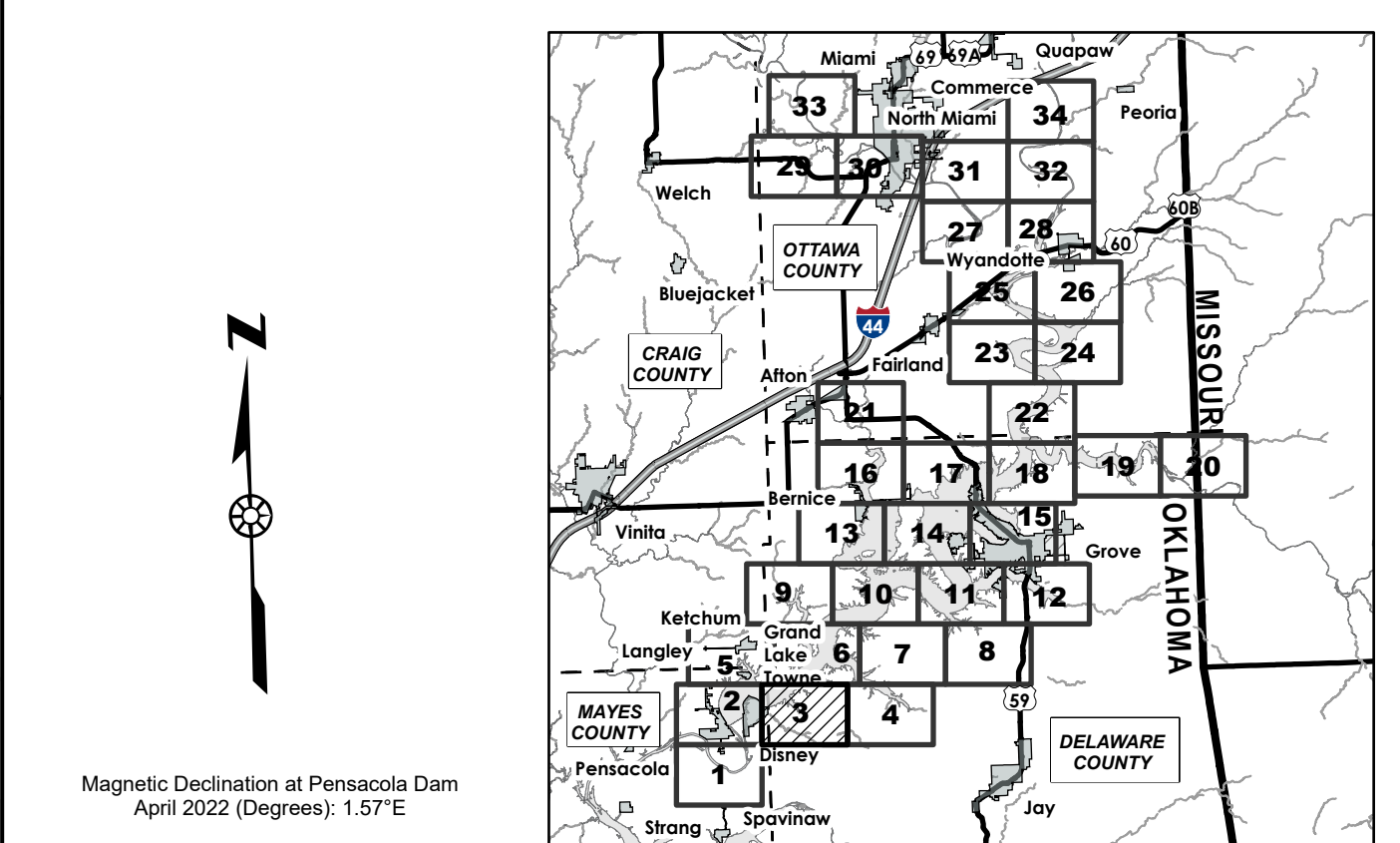
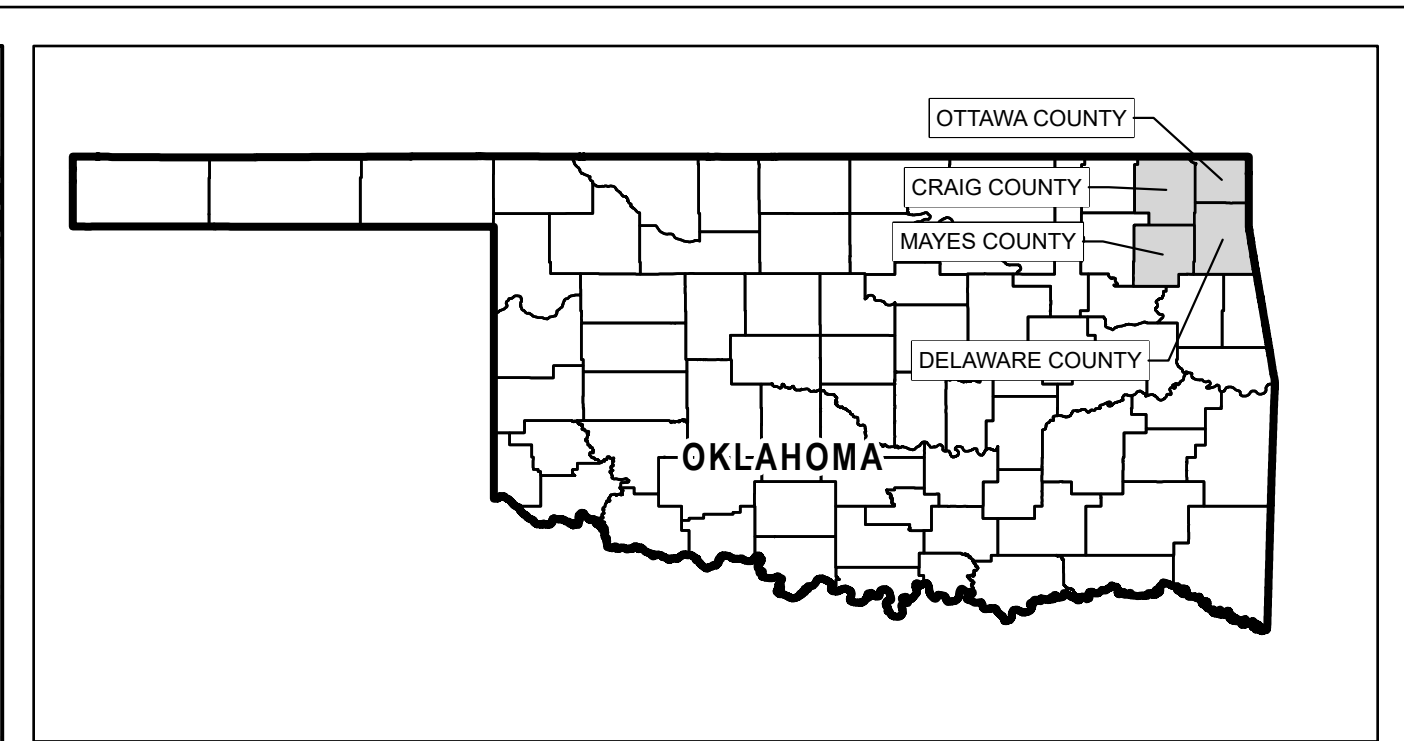
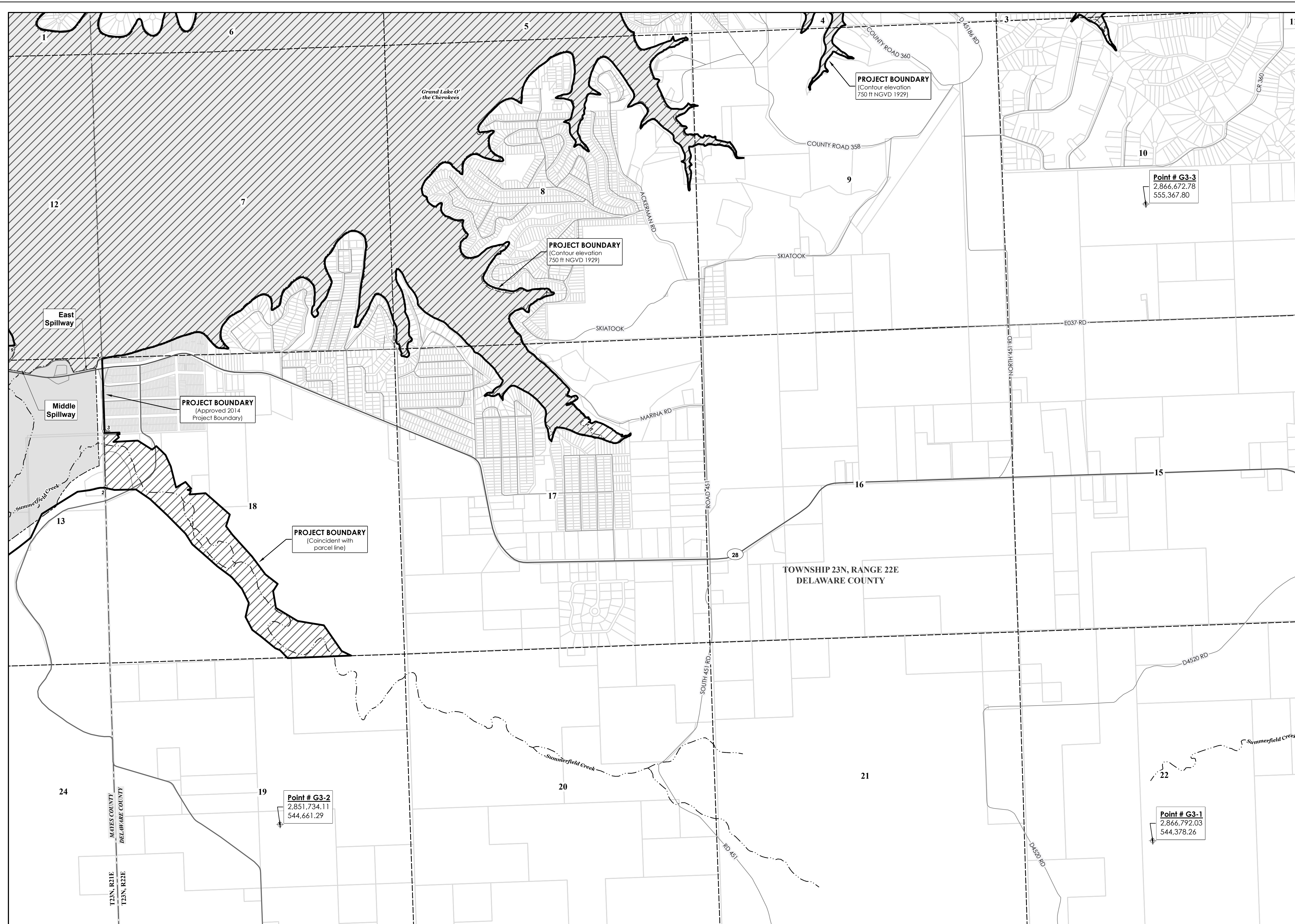
EXHIBIT G - 2

GRAND RIVER DAM AUTHORITY LANGLEY, OKLAHOMA

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

DATE: MAY 2023



Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	County Boundary	US Highway
Non-Project Facility	Other Open Water	PLSS Township	State Highway
Project Facility	Stream	Municipal Boundary	Major Collector
Project Boundary			Local Road

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EXHIBIT G - 3

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT

FERC PROJECT No. 1494

NEOSHO AND GRAND RIVERS

OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

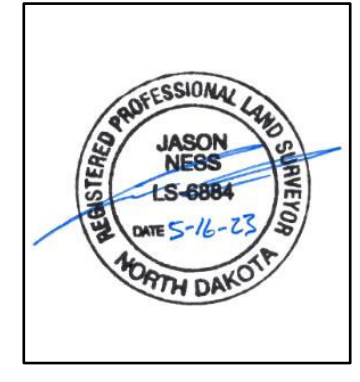
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JASON NESS DATE

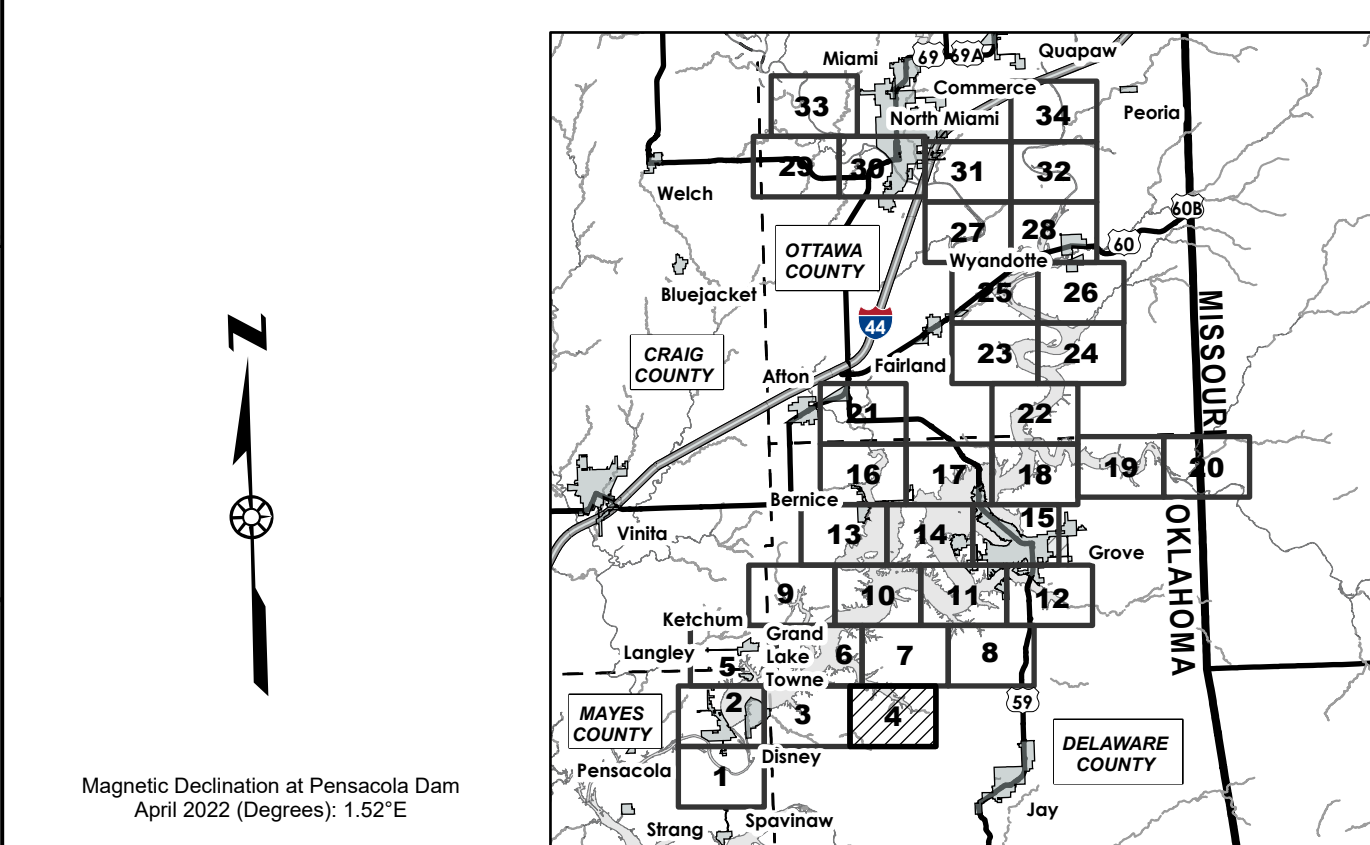
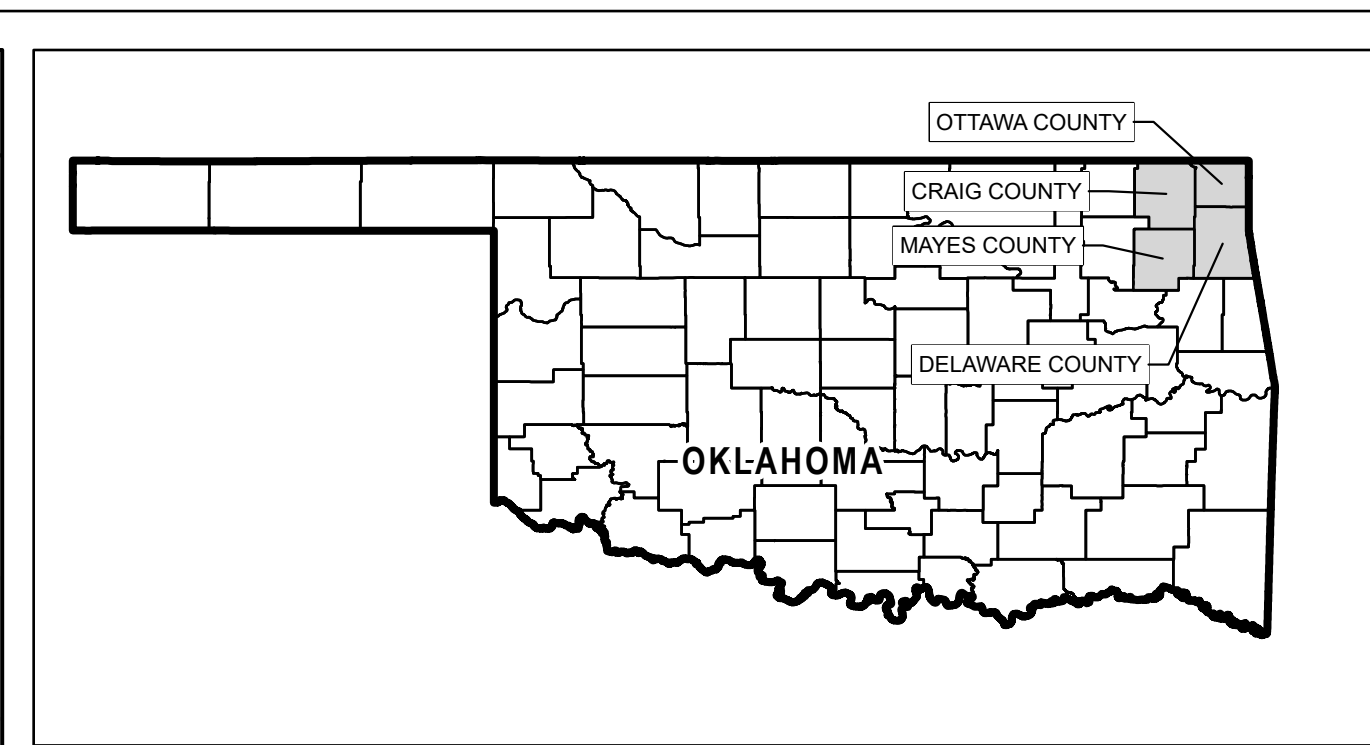
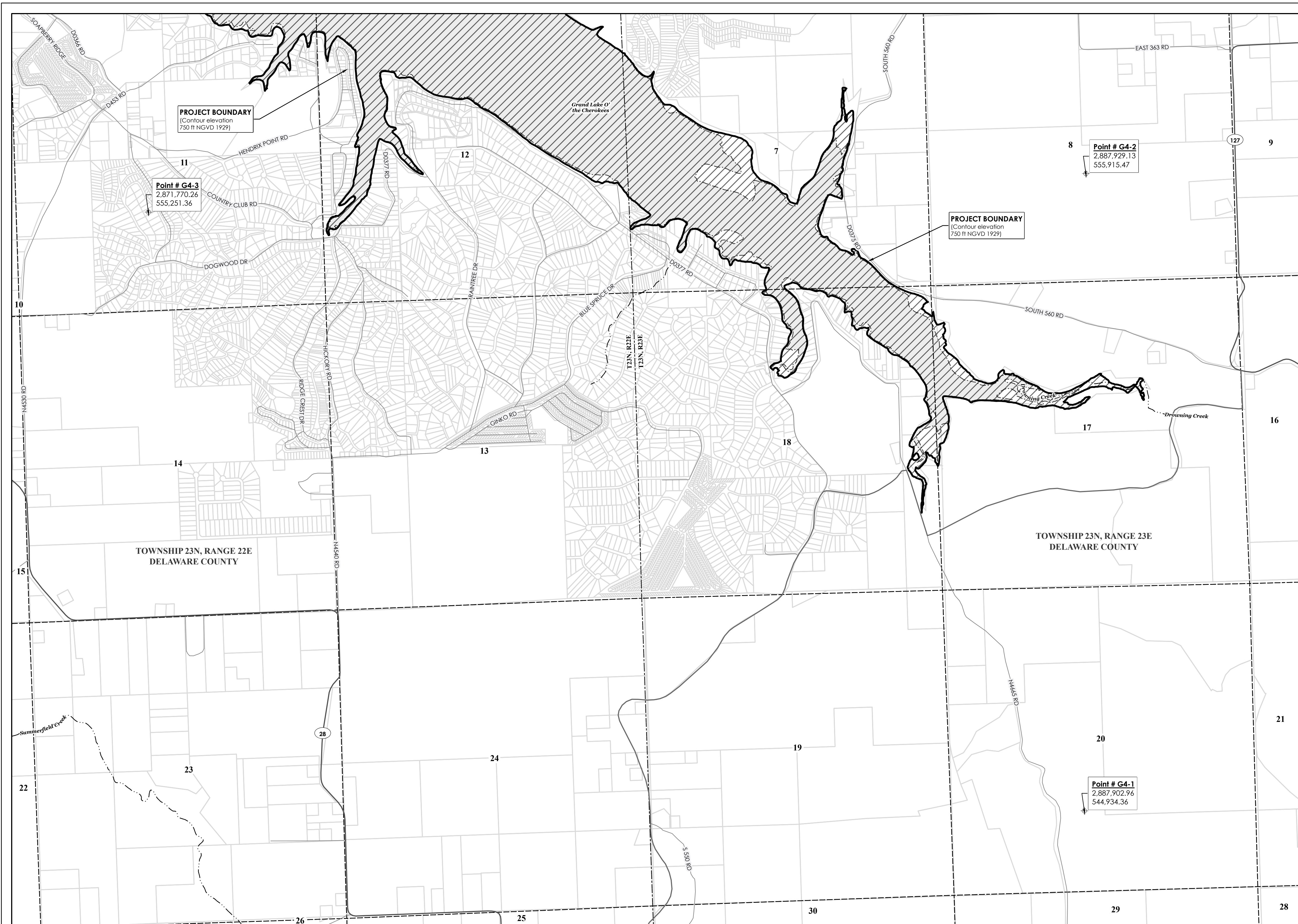


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Legend

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Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

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EXHIBIT G - 4

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NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

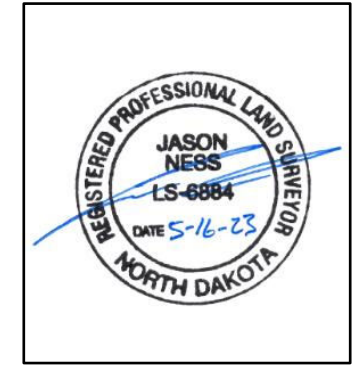
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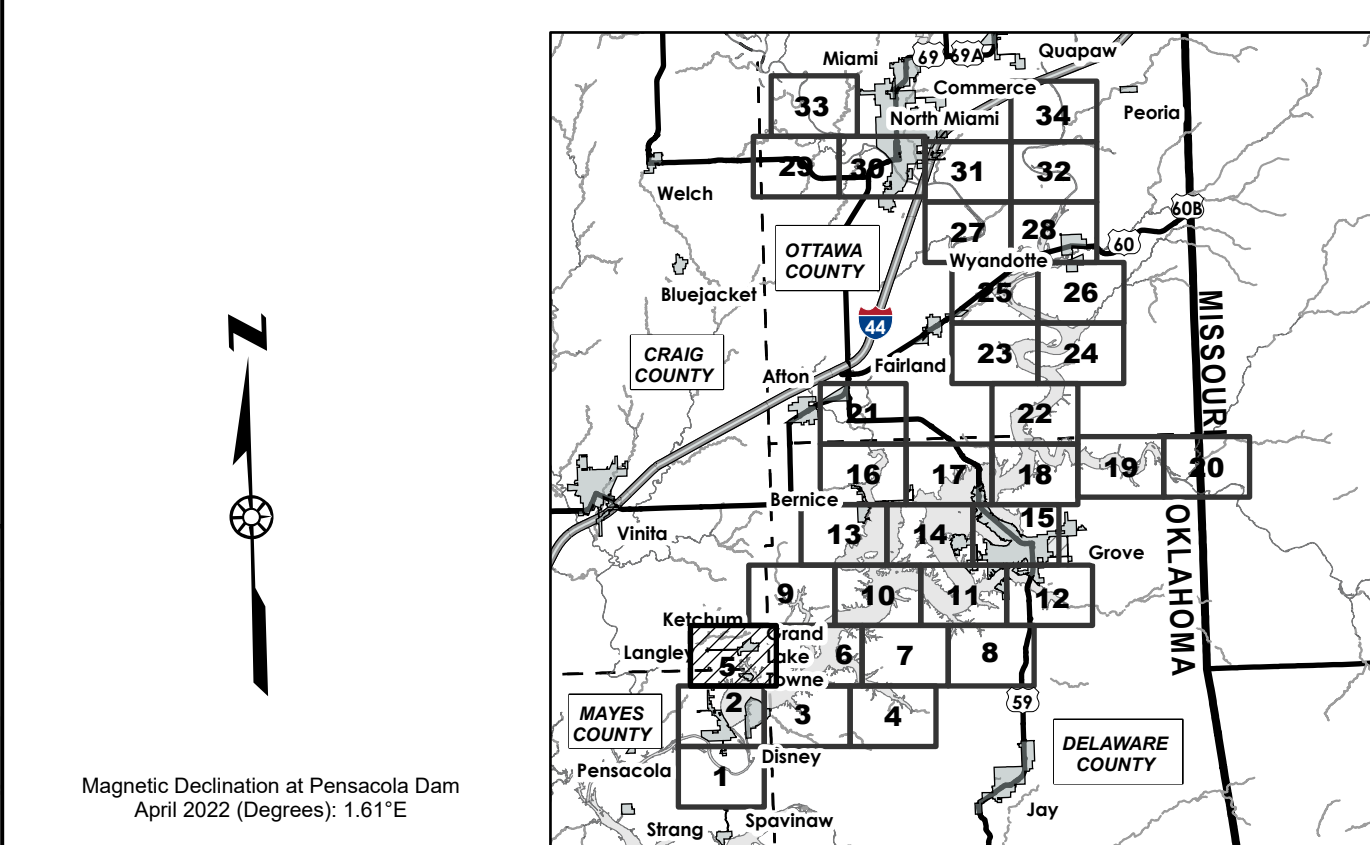
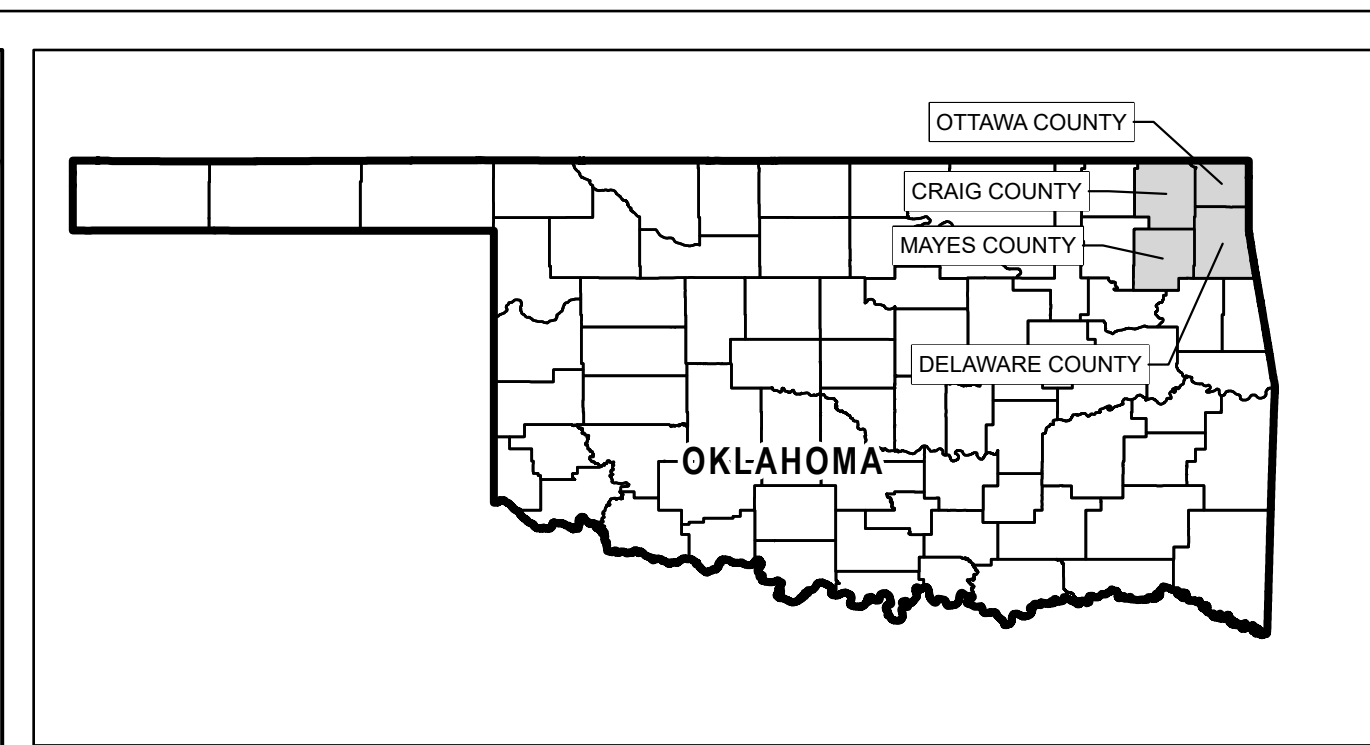
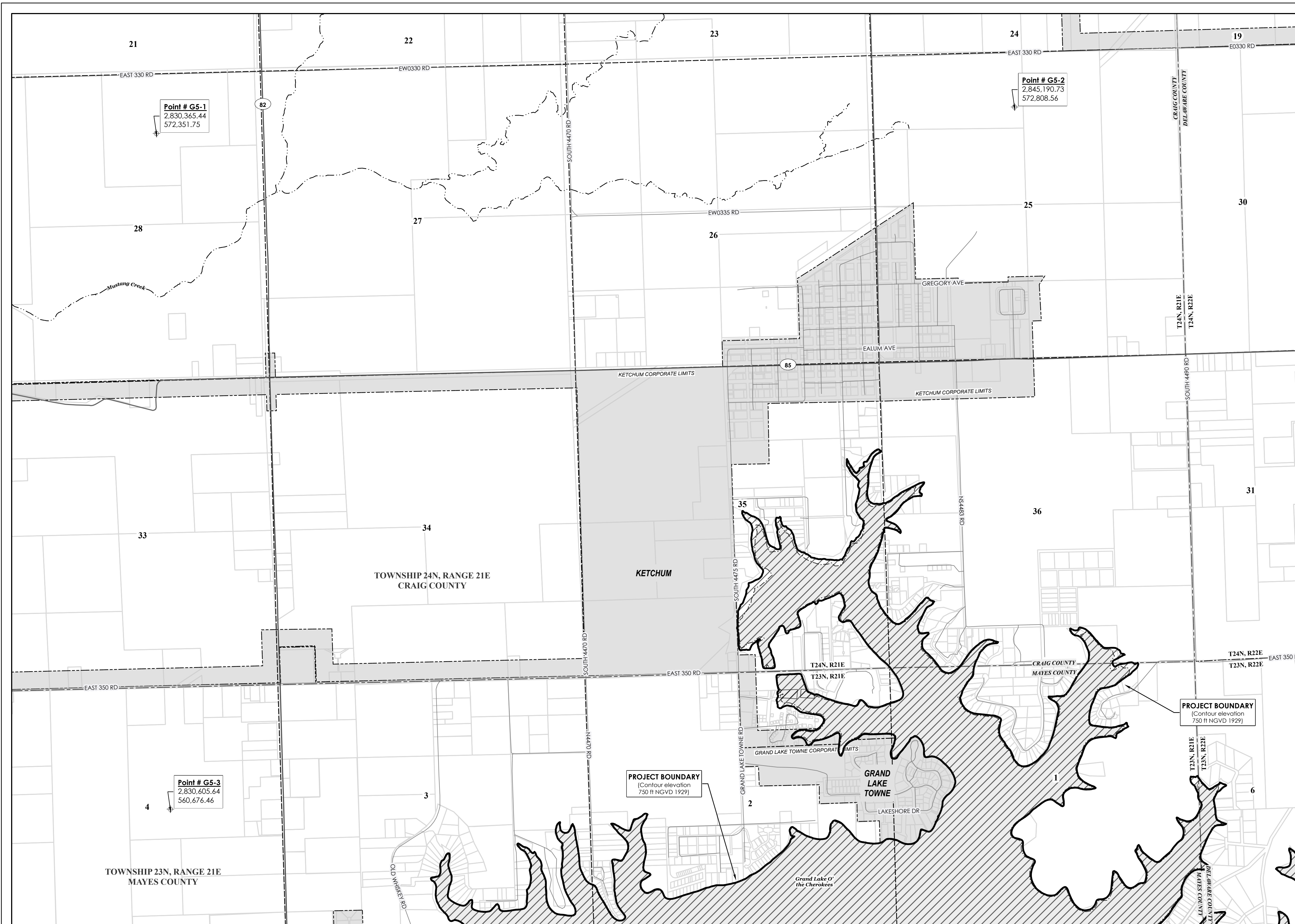


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EXHIBIT G - 5

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

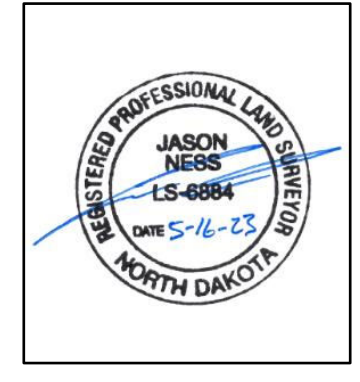
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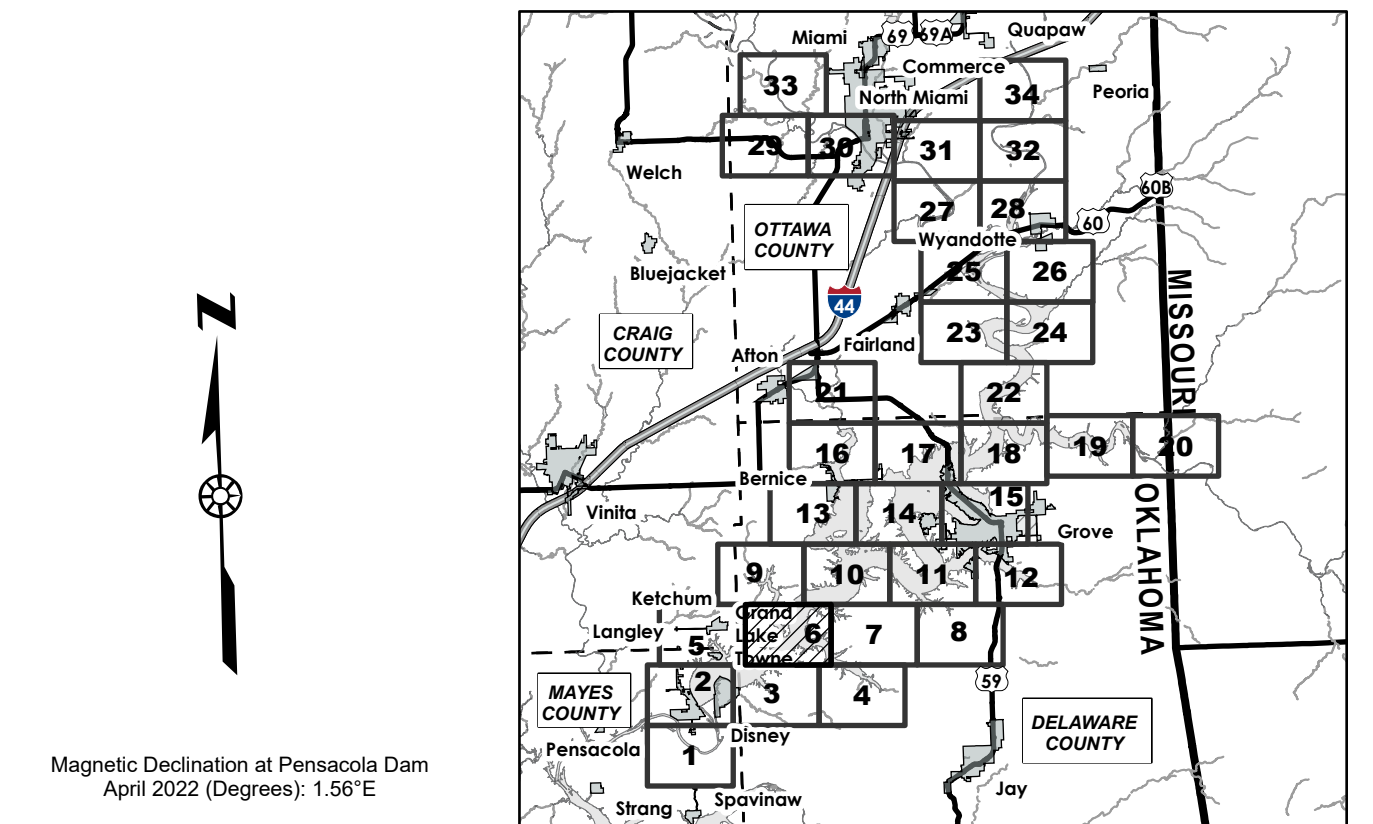
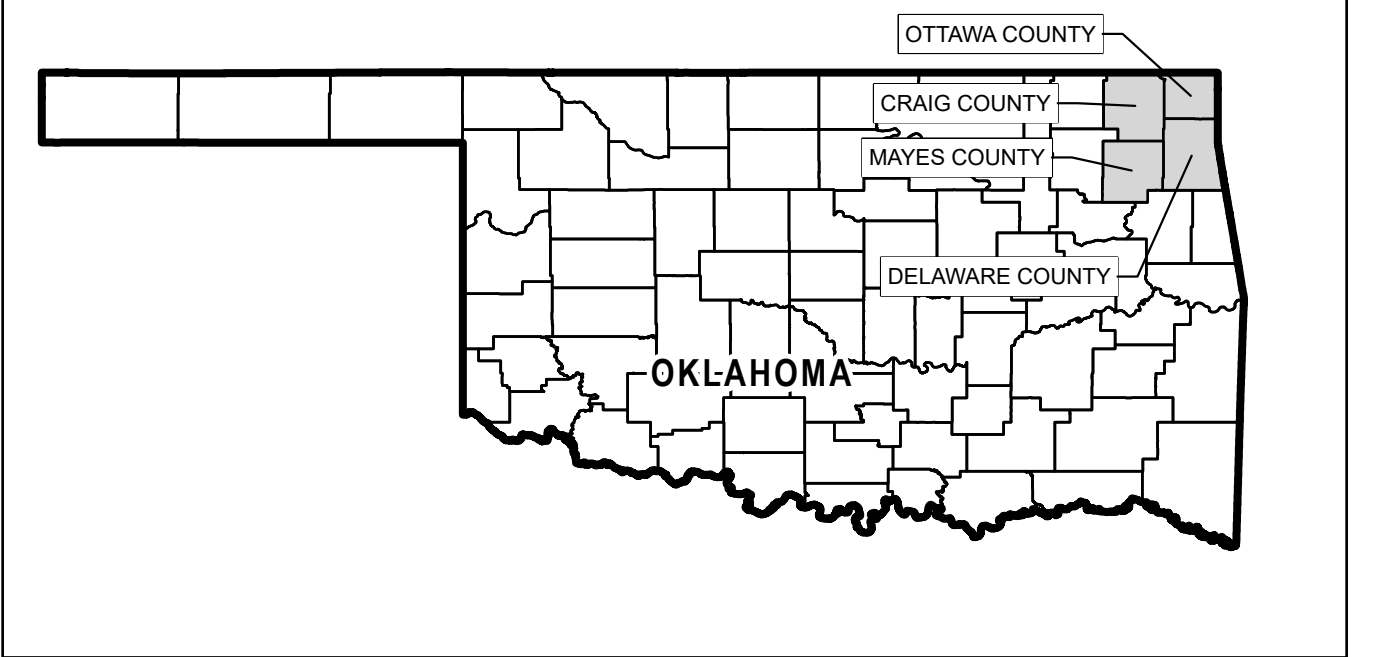


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Legend

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900 450 0 900 1,800 2,700 3,600 Feet

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EXHIBIT G - 6

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

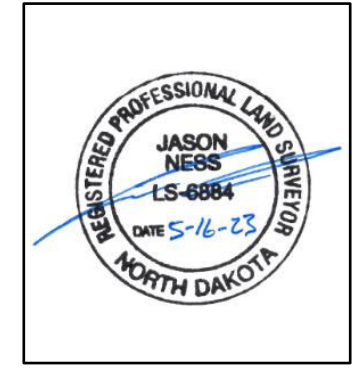
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
DATE

JASON NESS

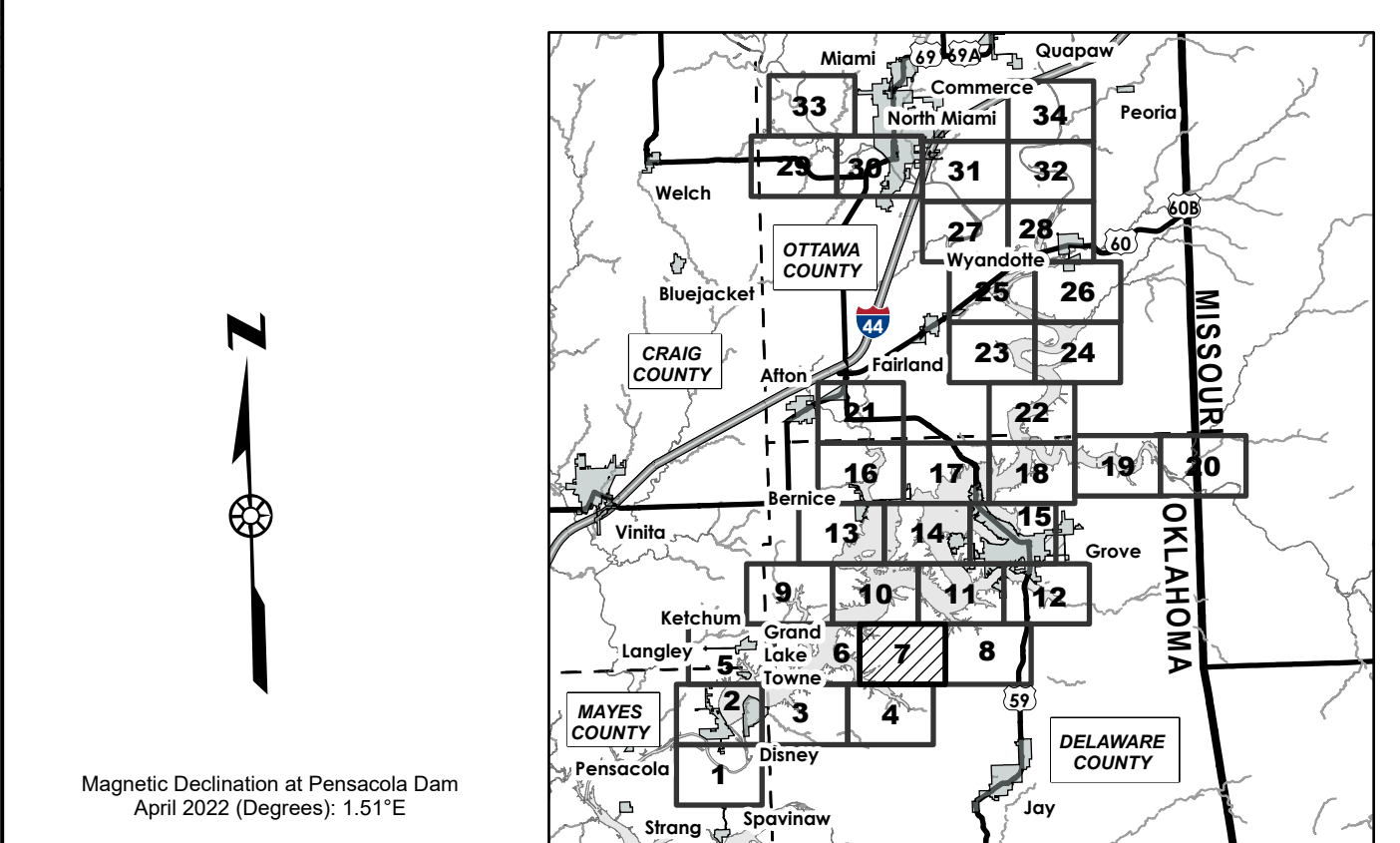
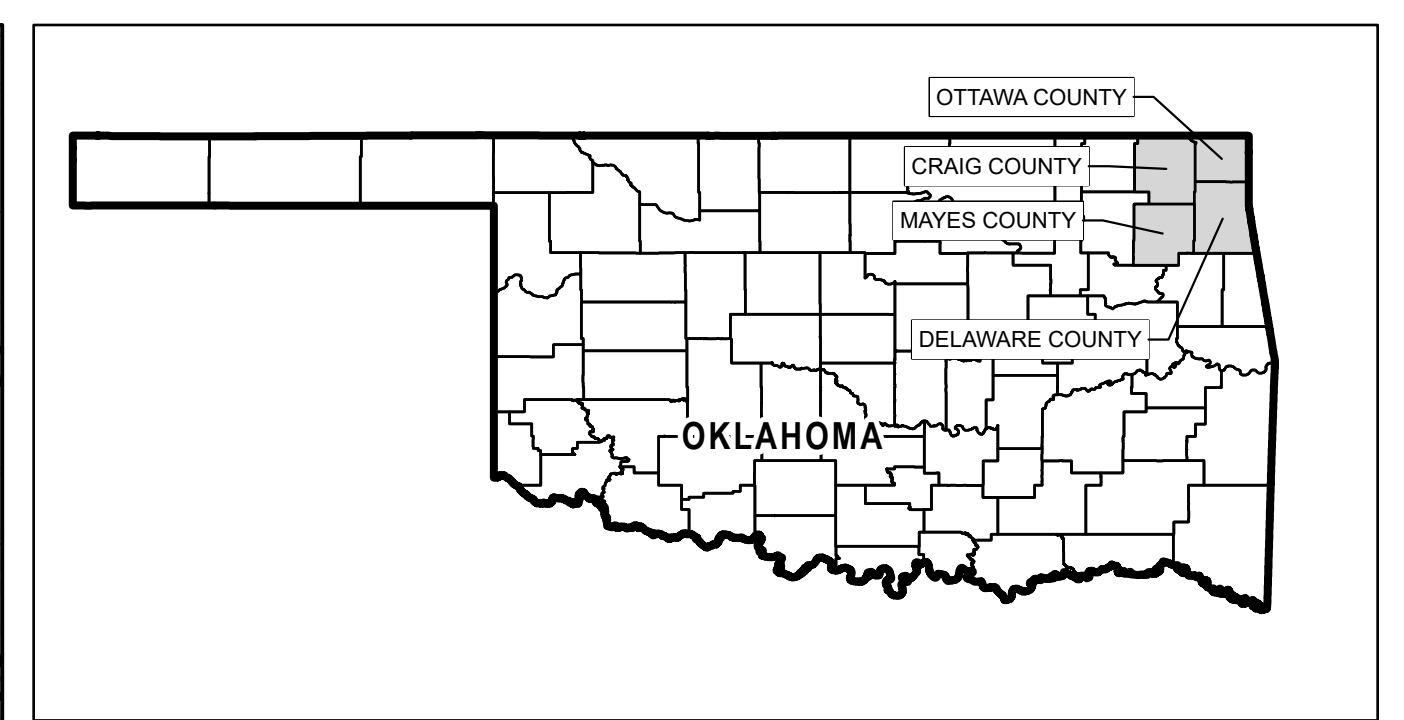


MAP NOTES

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- The Reservoir shown was developed from the 745 ft Pensacola Datum (PD) contour. Contours (745 ft PD and 750 ft NGVD) were used as a basis for the Project boundary were derived from the Digital Elevation Model (DEM) developed for the Upstream Hydraulic Model (UHM).
- When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.

PROJECT BOUNDARY DEFINITION

- Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
- Portions of the anticipated project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
- Portions of the anticipated project boundary labeled as "Coincident with parcel line" are intended to follow a parcel boundary. See Map Note #1 for more information on parcel data sources.
- Portions of the anticipated project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.



Legend

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 7

GRAND RIVER DAM AUTHORITY
LANGLEY, OKLAHOMA

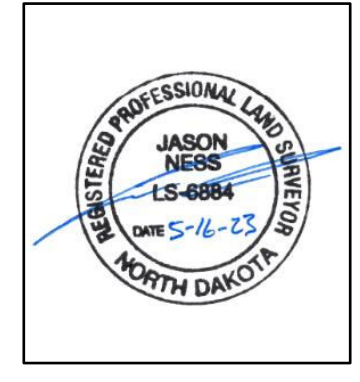
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
DATE

JASON NESS



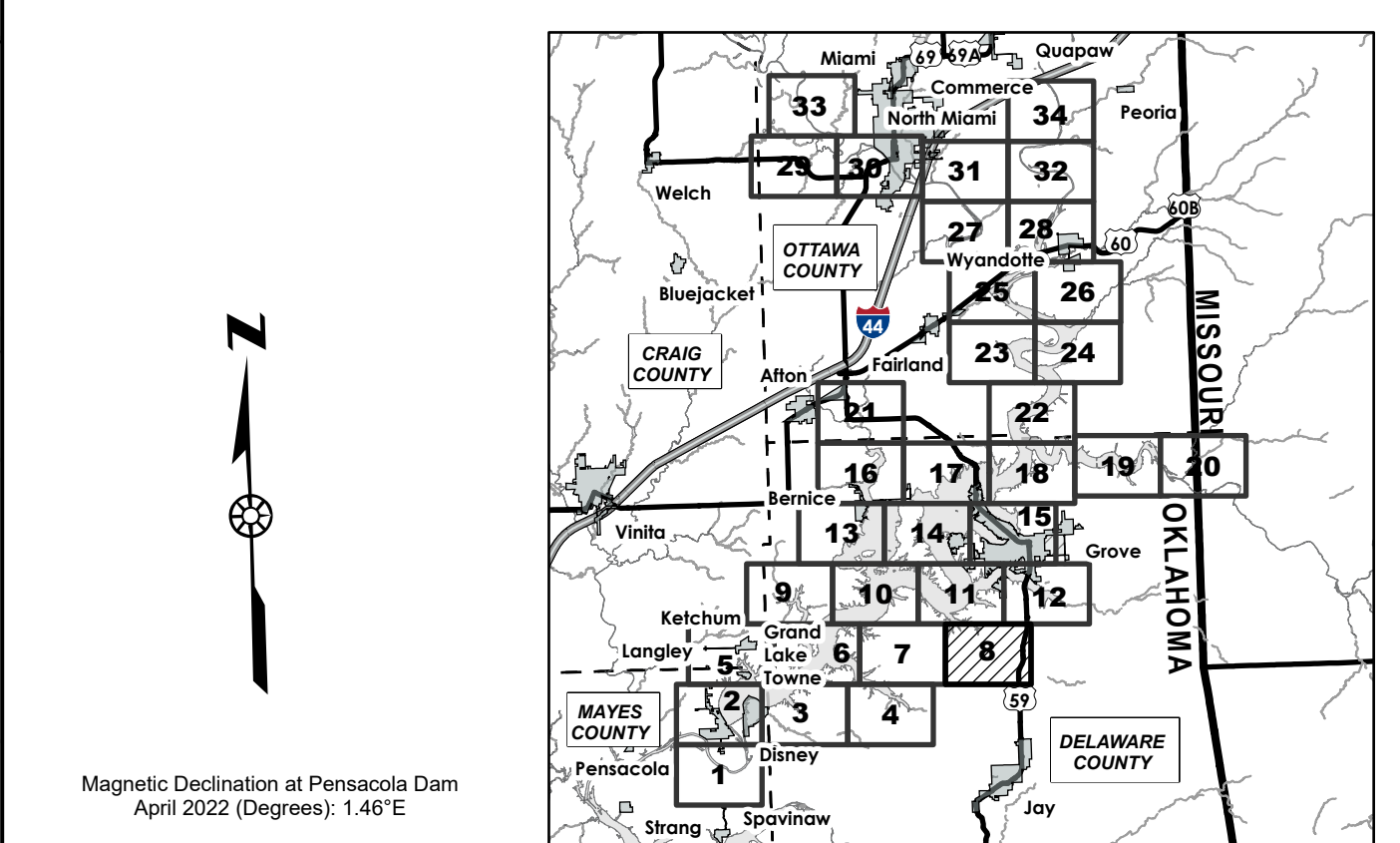
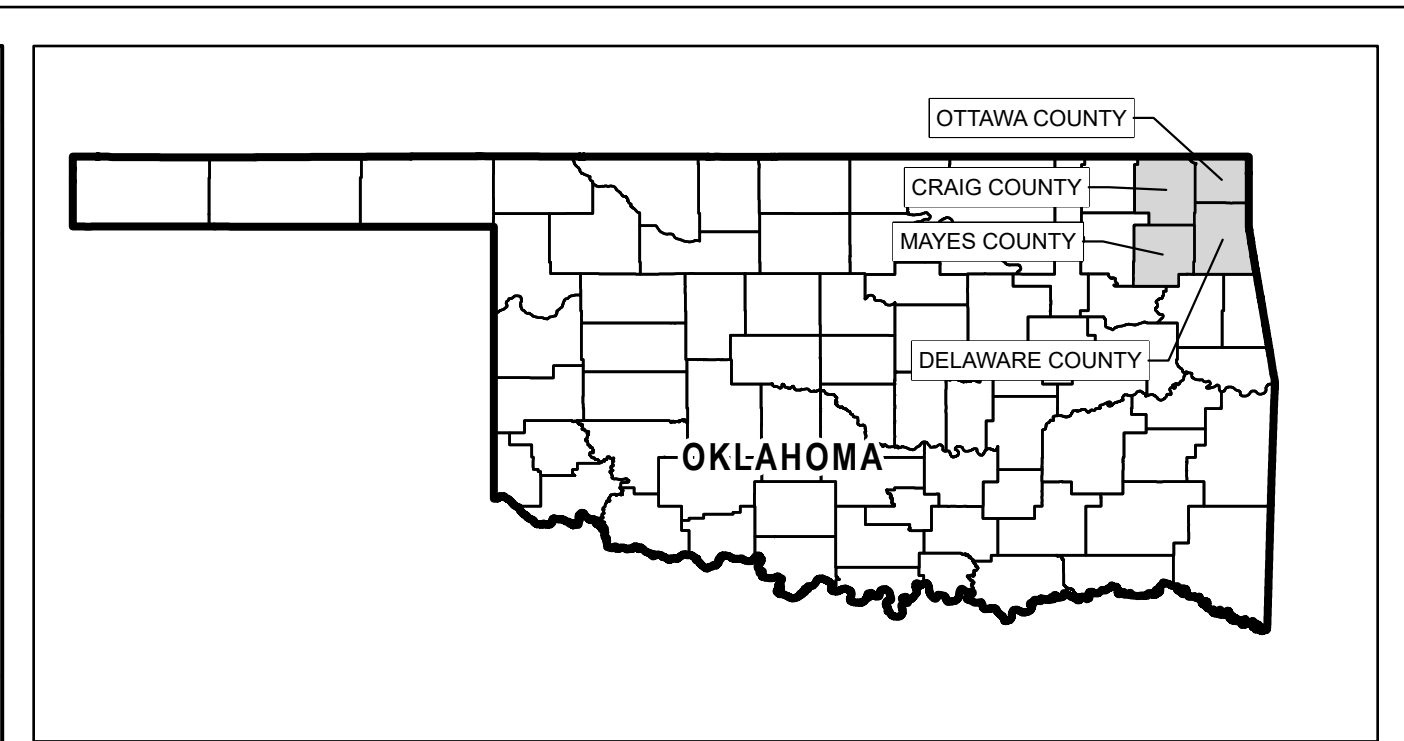
MAP NOTES

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- The Reservoir shown was developed from the 745 ft Pensacola Datum (PD) contour. Contours (745 ft PD and 750 ft NGVD) were used as a basis for the Project boundary were derived from the Digital Elevation Model (DEM) developed for the Upstream Hydraulic Model (UHM).
- When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.
- Public Land Survey System (PLSS) obtained from the Oklahoma Water Resources Board (<https://home-owrb.opendata.arcgis.com/>).
- National Hydrography Dataset (NHD) data (streams and lakes) were obtained from the National Map Download application (TNM Download at <https://viewer.nationalmap.gov/basic/#/>).
- Transportation network, county and municipal boundaries from the Oklahoma Department of Transportation GIS Open Data Portal (<https://gis-odot.opendata.arcgis.com/>).
- Federal lands shown were developed from Bureau of Indian Affairs (BIA) parcel data and Wetland Reserve Program (WRP) easements.

PROJECT BOUNDARY DEFINITION

- Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
- Portions of the anticipated project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
- Portions of the anticipated project boundary labeled as "Coincident with parcel line" are intended to follow a parcel boundary. See Map Note #1 for more information on parcel data sources.
- Portions of the anticipated project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.

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Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 8

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

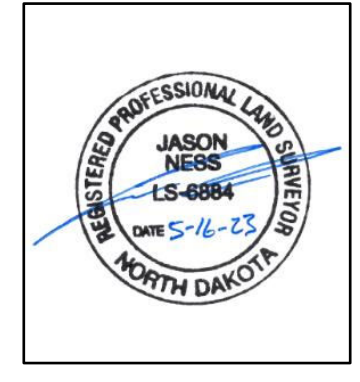
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
 DATE

JASON NESS



MAP NOTES

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PROJECT BOUNDARY DEFINITION

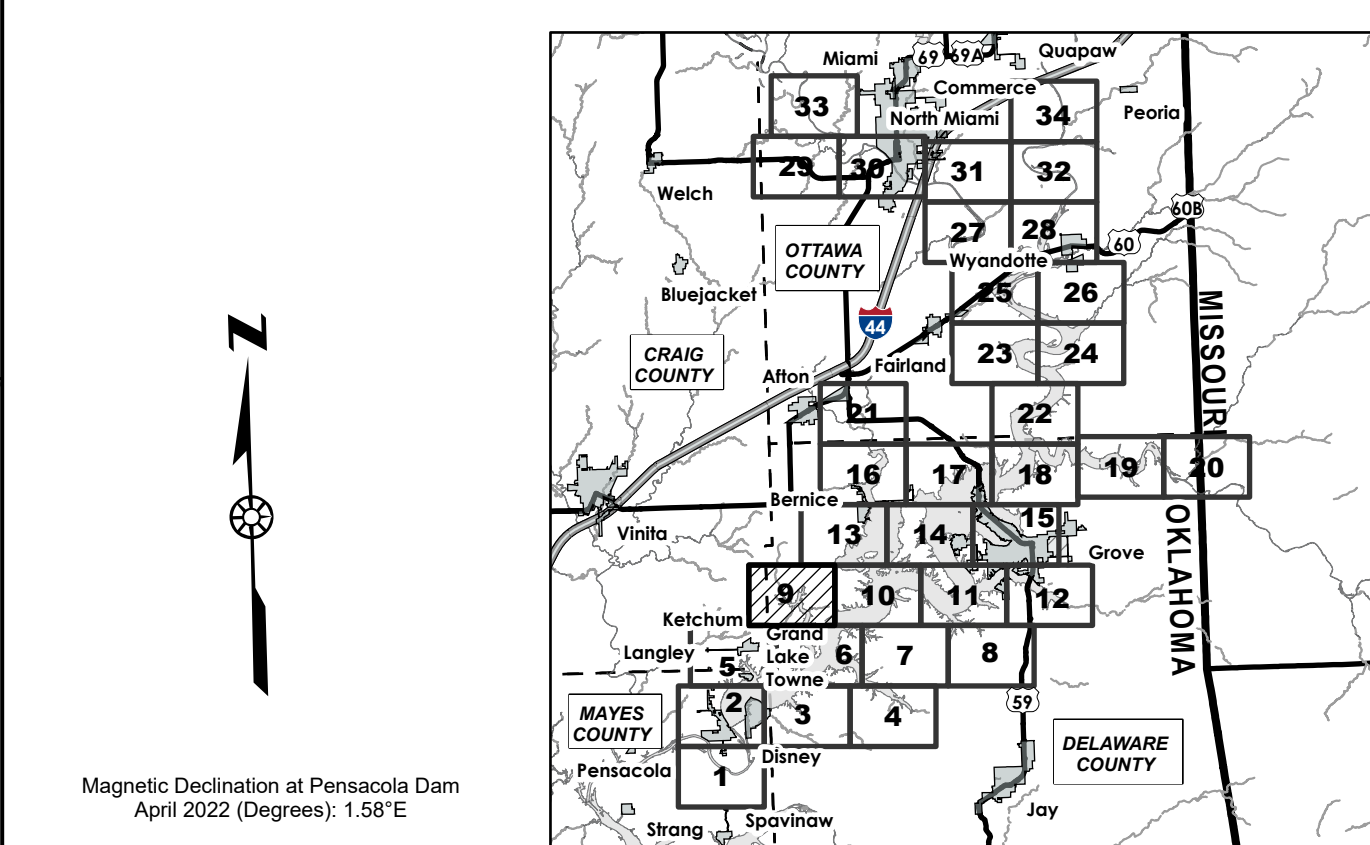
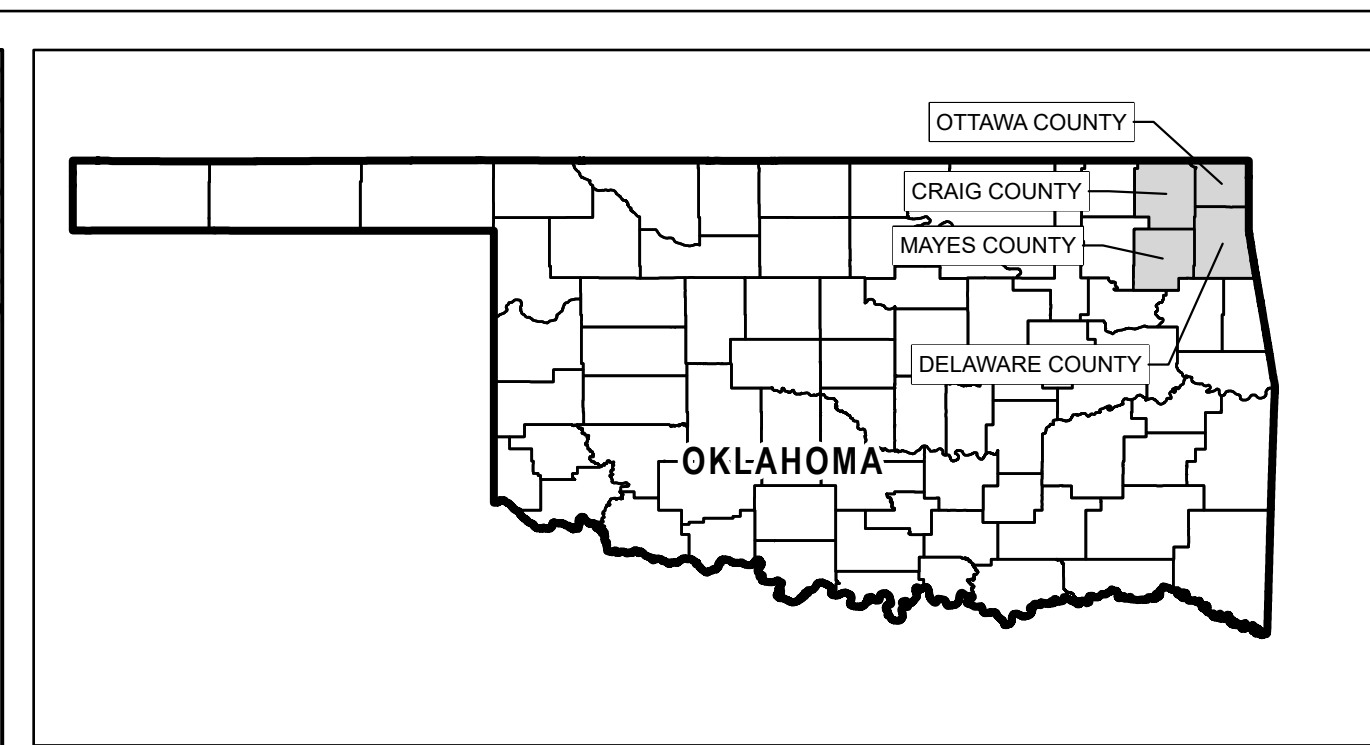
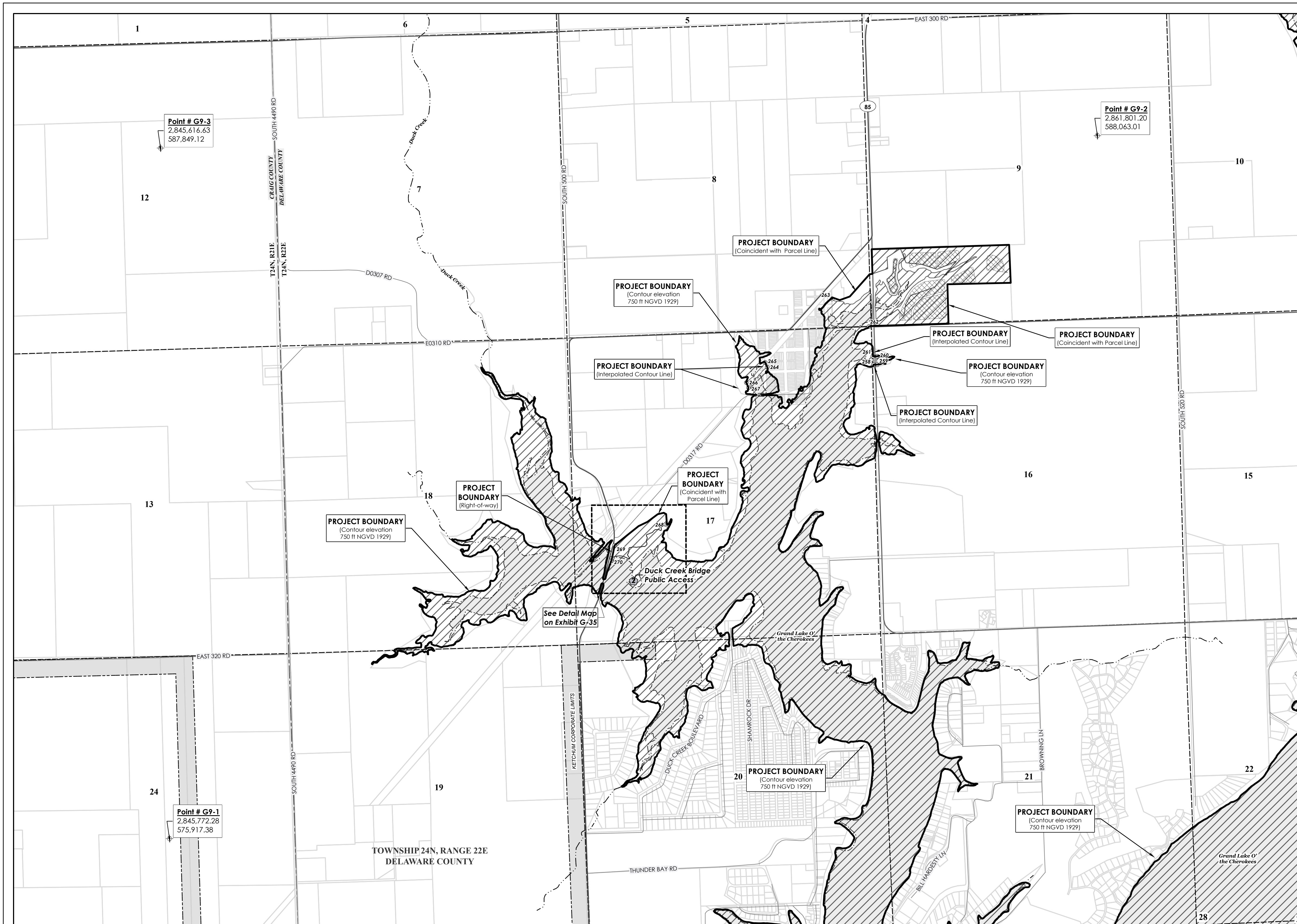
- Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
- Portions of the anticipated project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
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PROJECT BOUNDARY DEFINITION

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PROJECT BOUNDARY DEFINITION

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Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 9

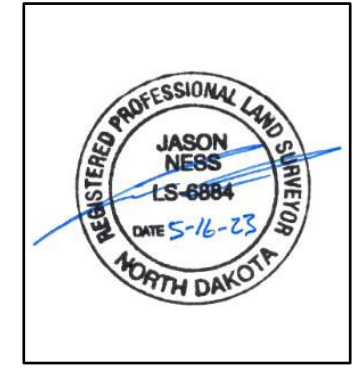
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
DATE

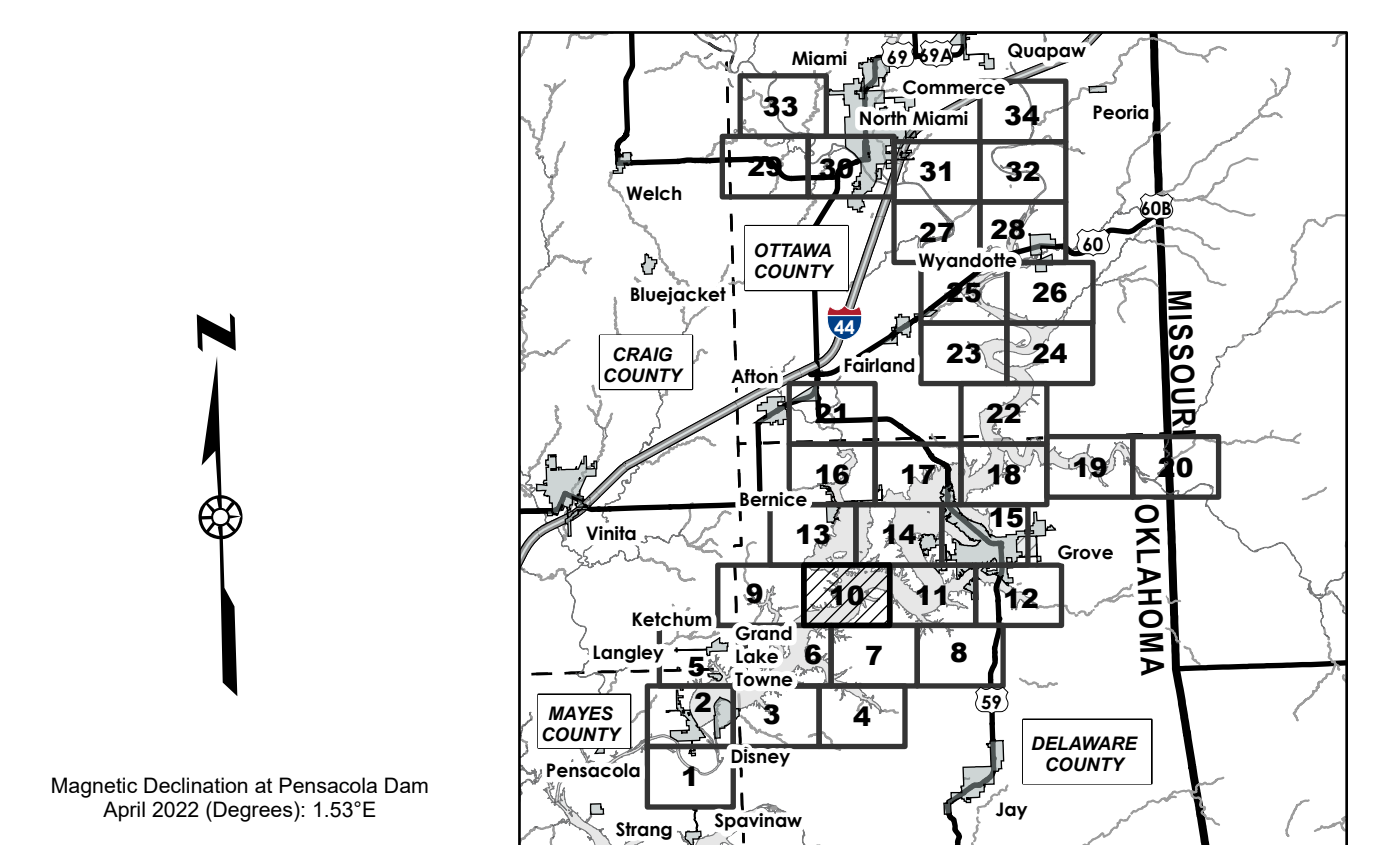
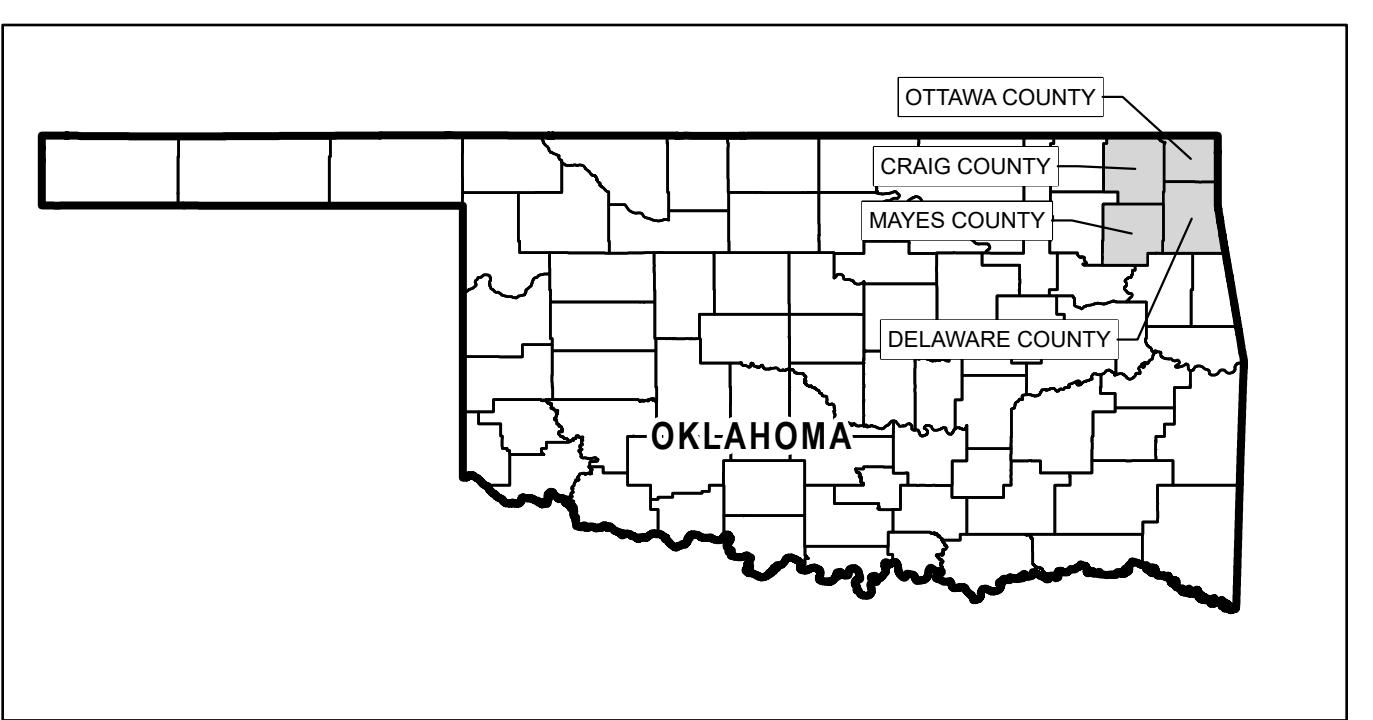
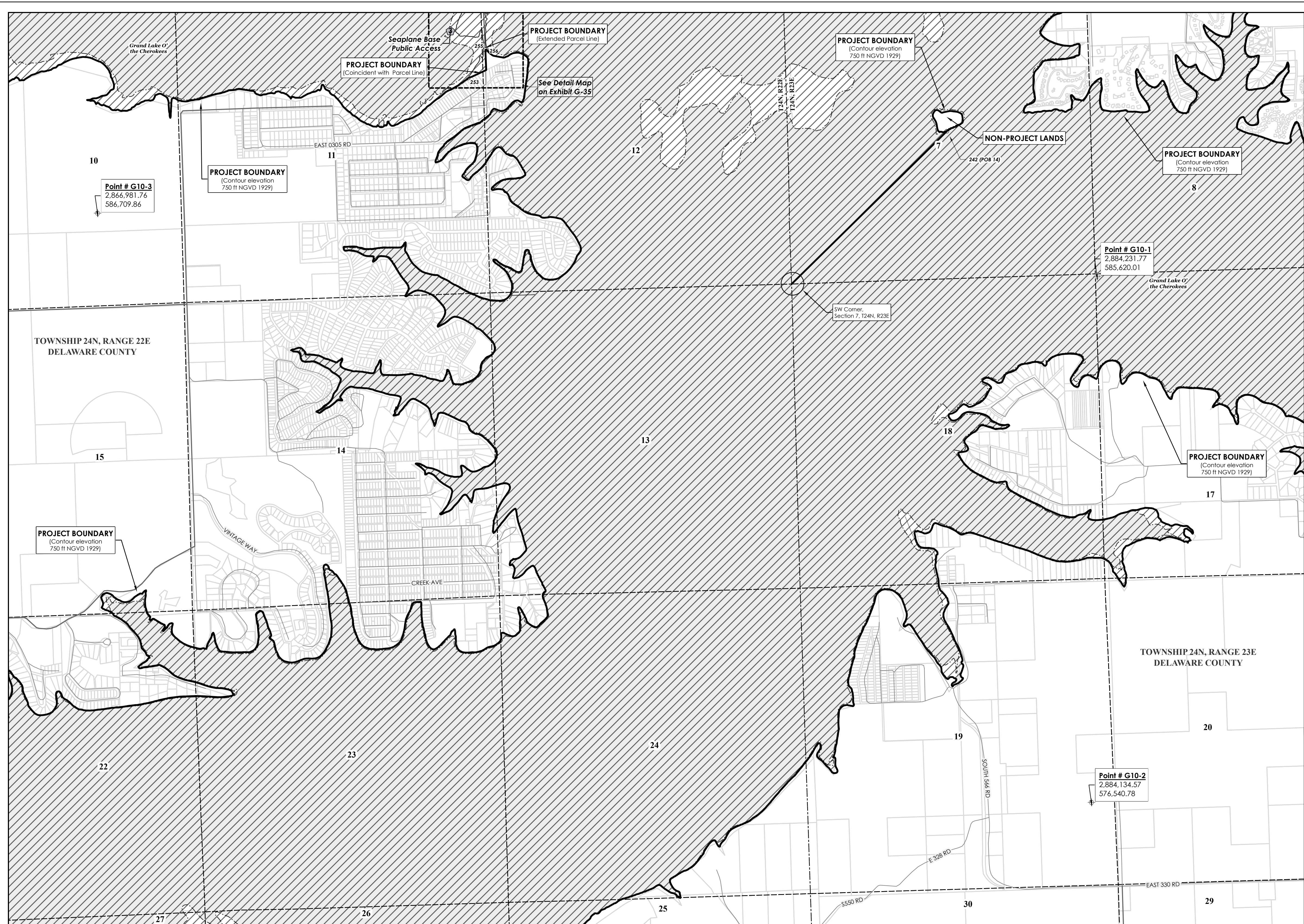


MAP NOTES

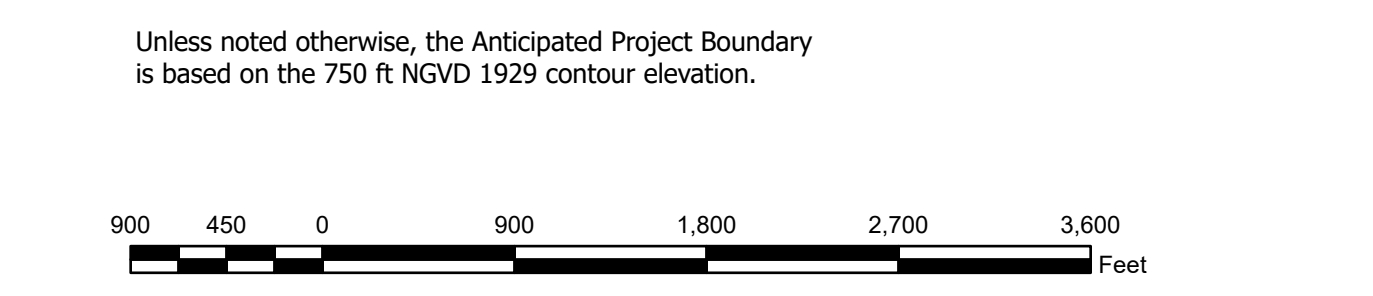
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PROJECT BOUNDARY DEFINITION

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Legend



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EXHIBIT G - 10

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

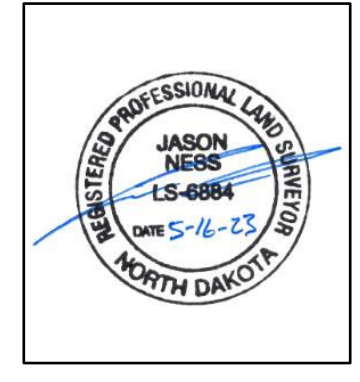
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
 DATE



MAP NOTES

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PROJECT BOUNDARY DEFINITION

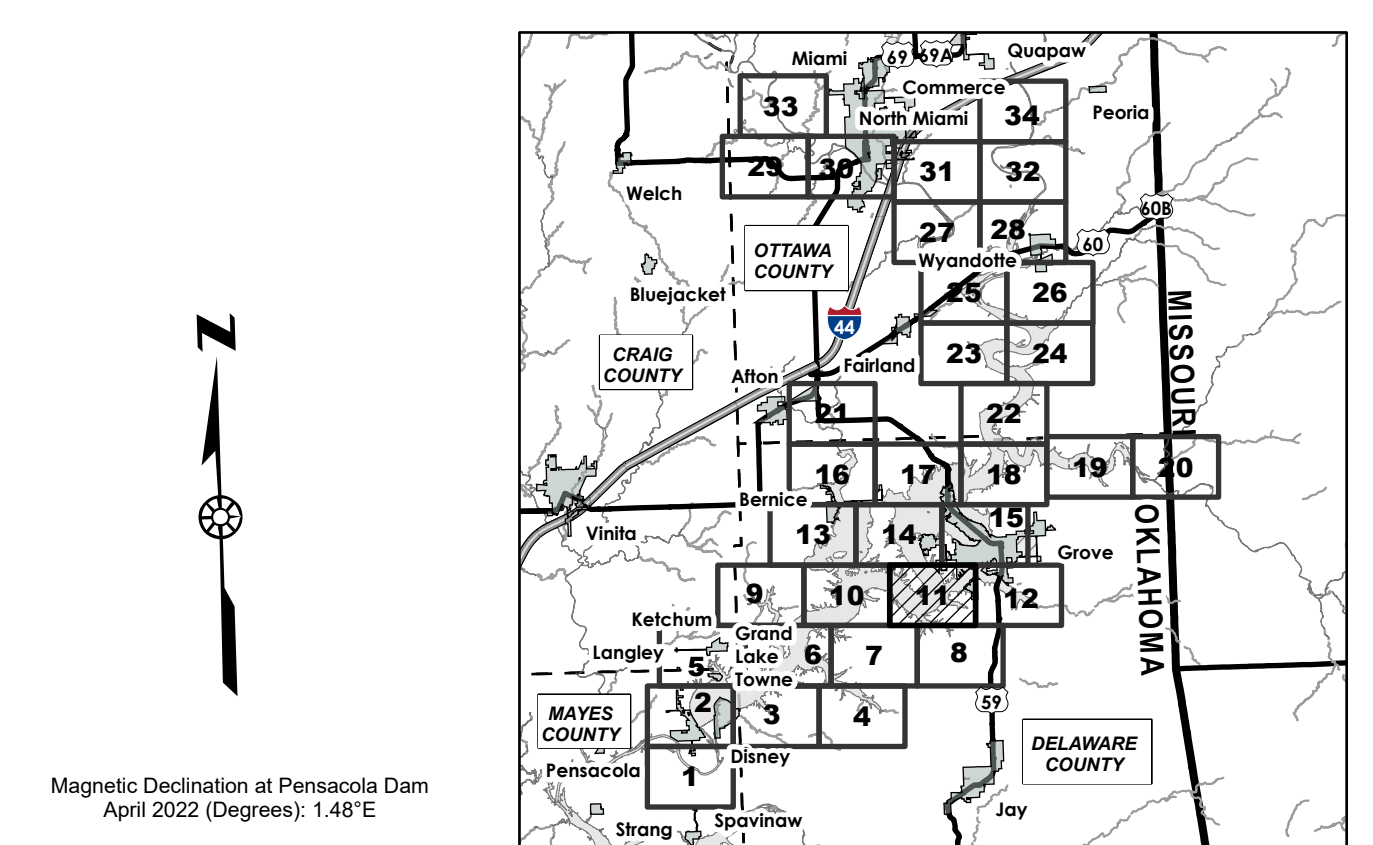
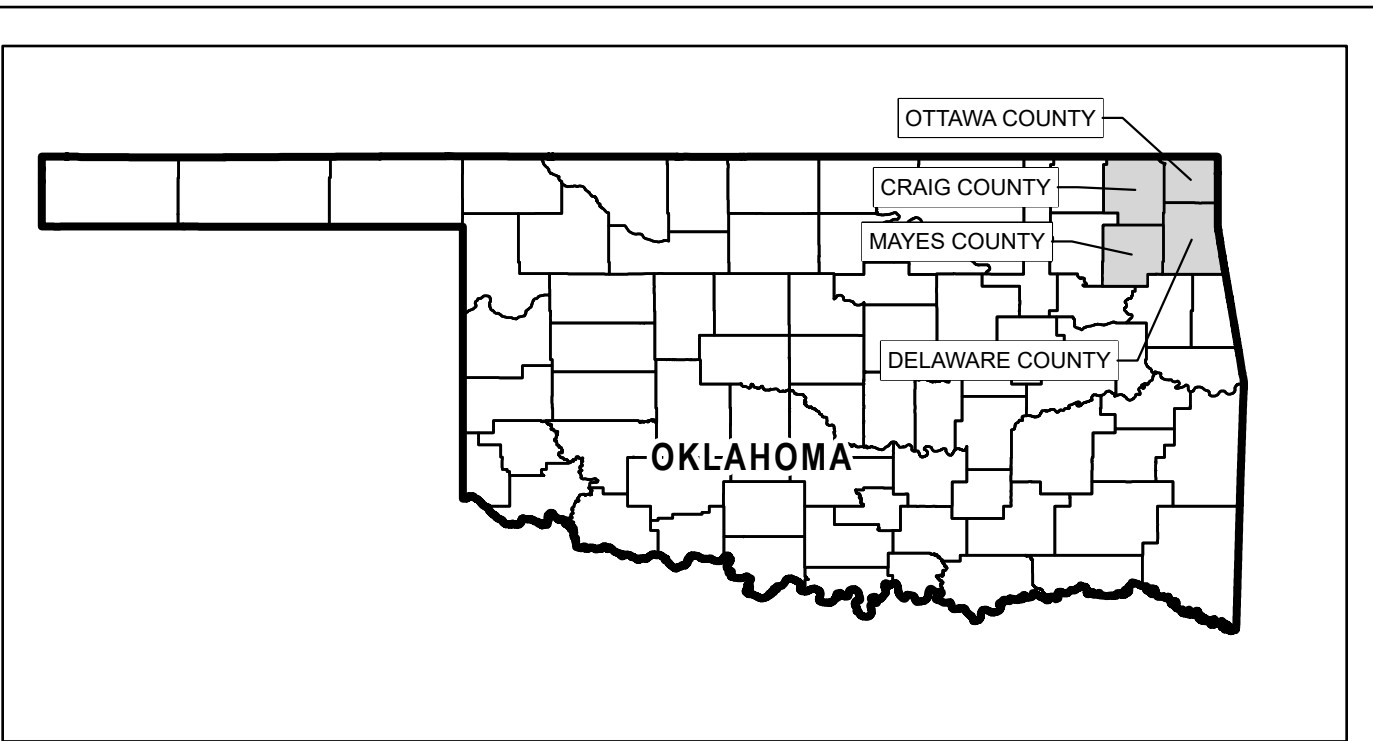
- Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
- Portions of the anticipated project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
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PROJECT BOUNDARY DEFINITION

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PROJECT BOUNDARY DEFINITION

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Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 11
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

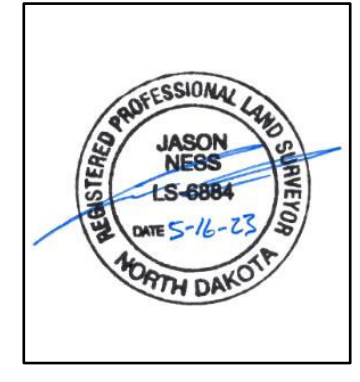
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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5/16/2023
 DATE

JASON NESS

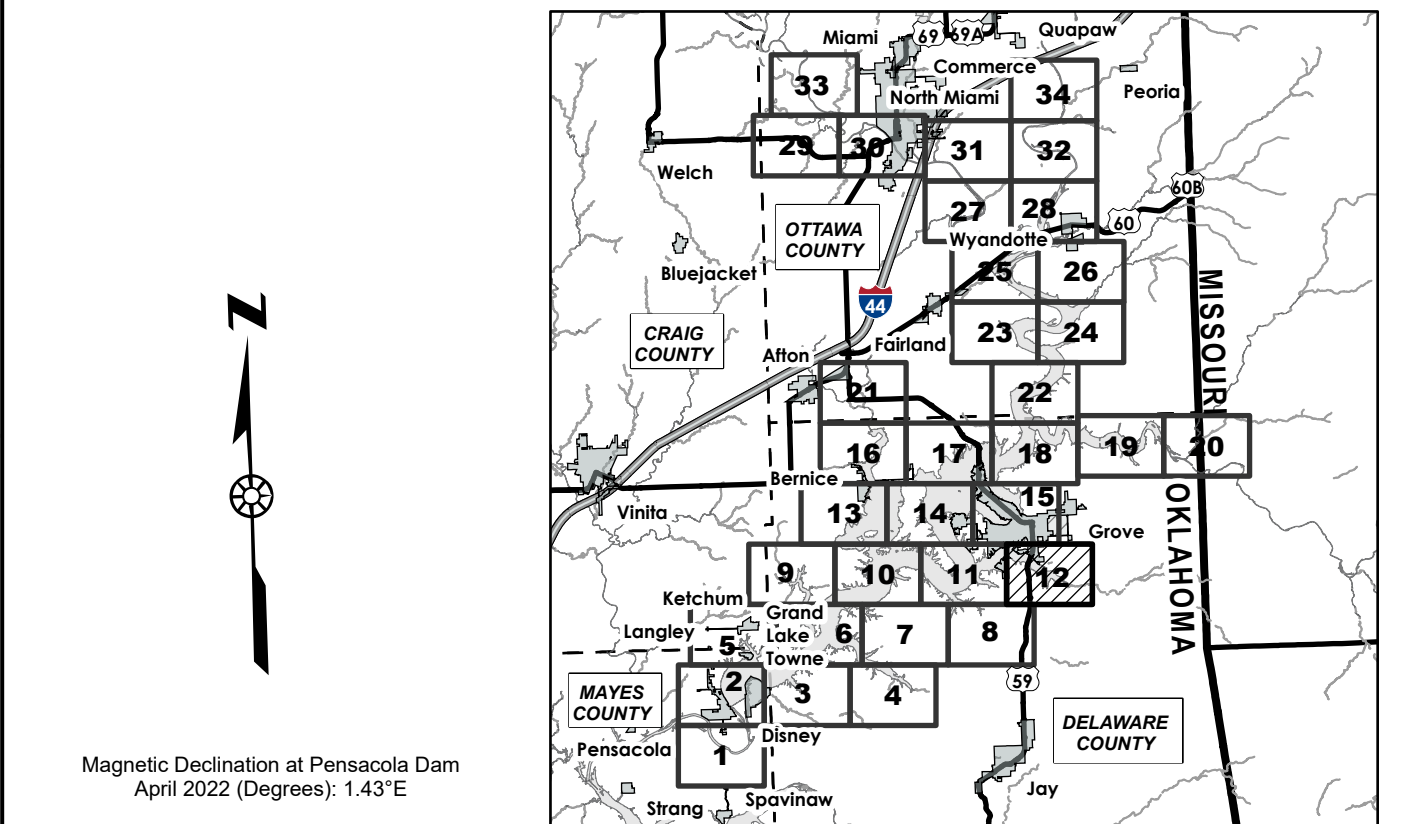
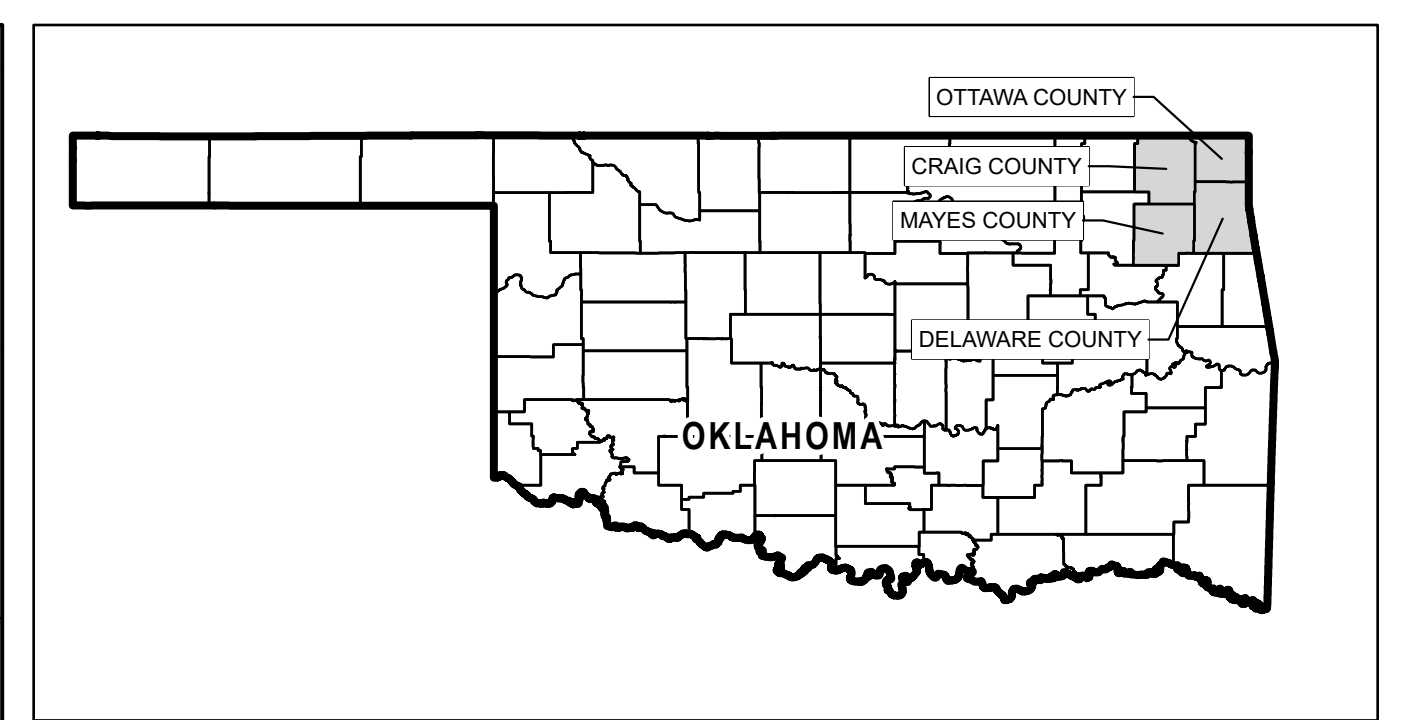
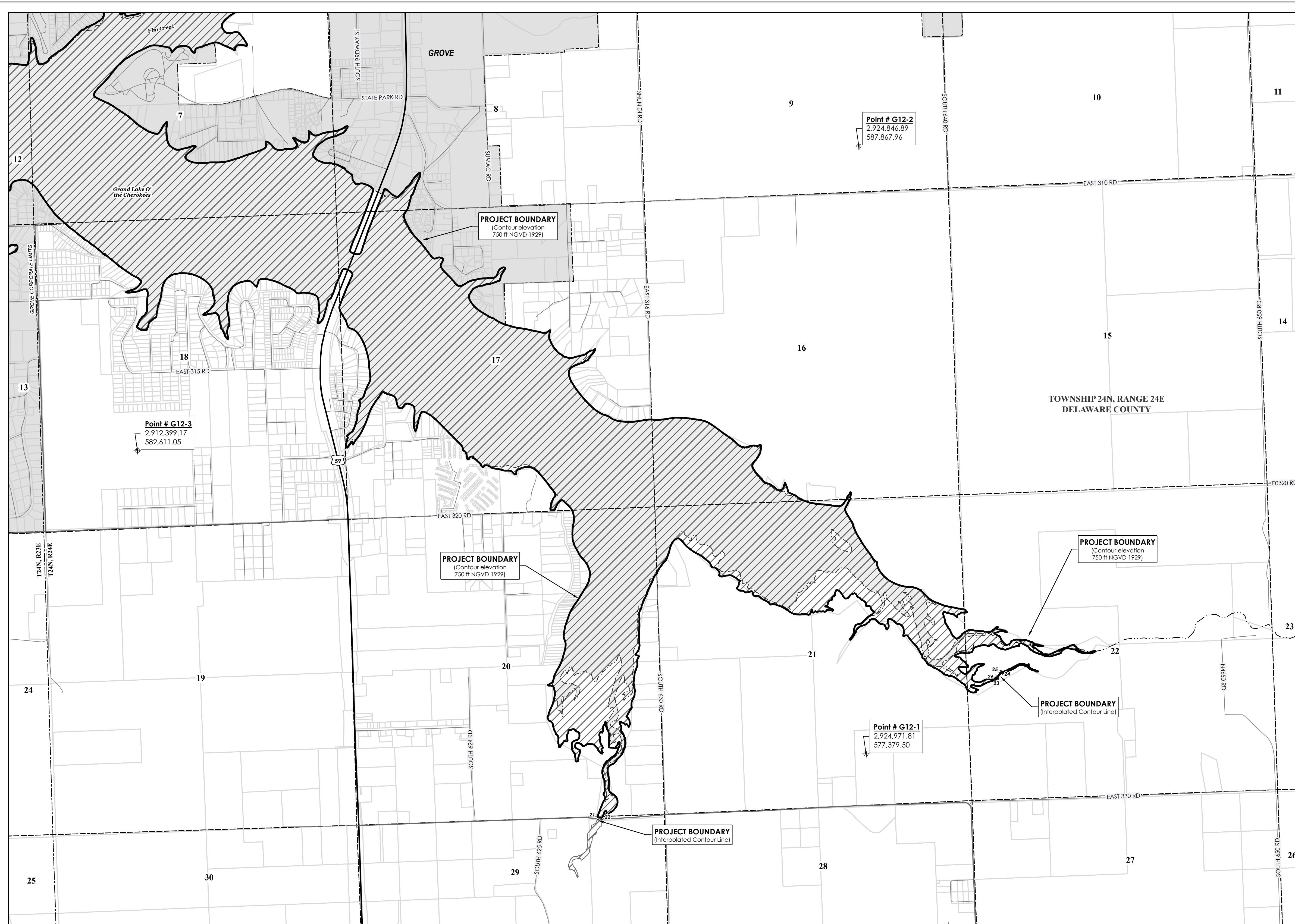


MAP NOTES

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Legend

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

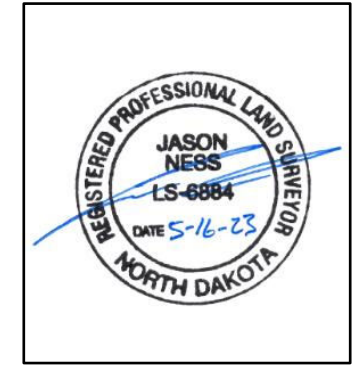
Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 12
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP
 DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

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 DATE

JASON NESS

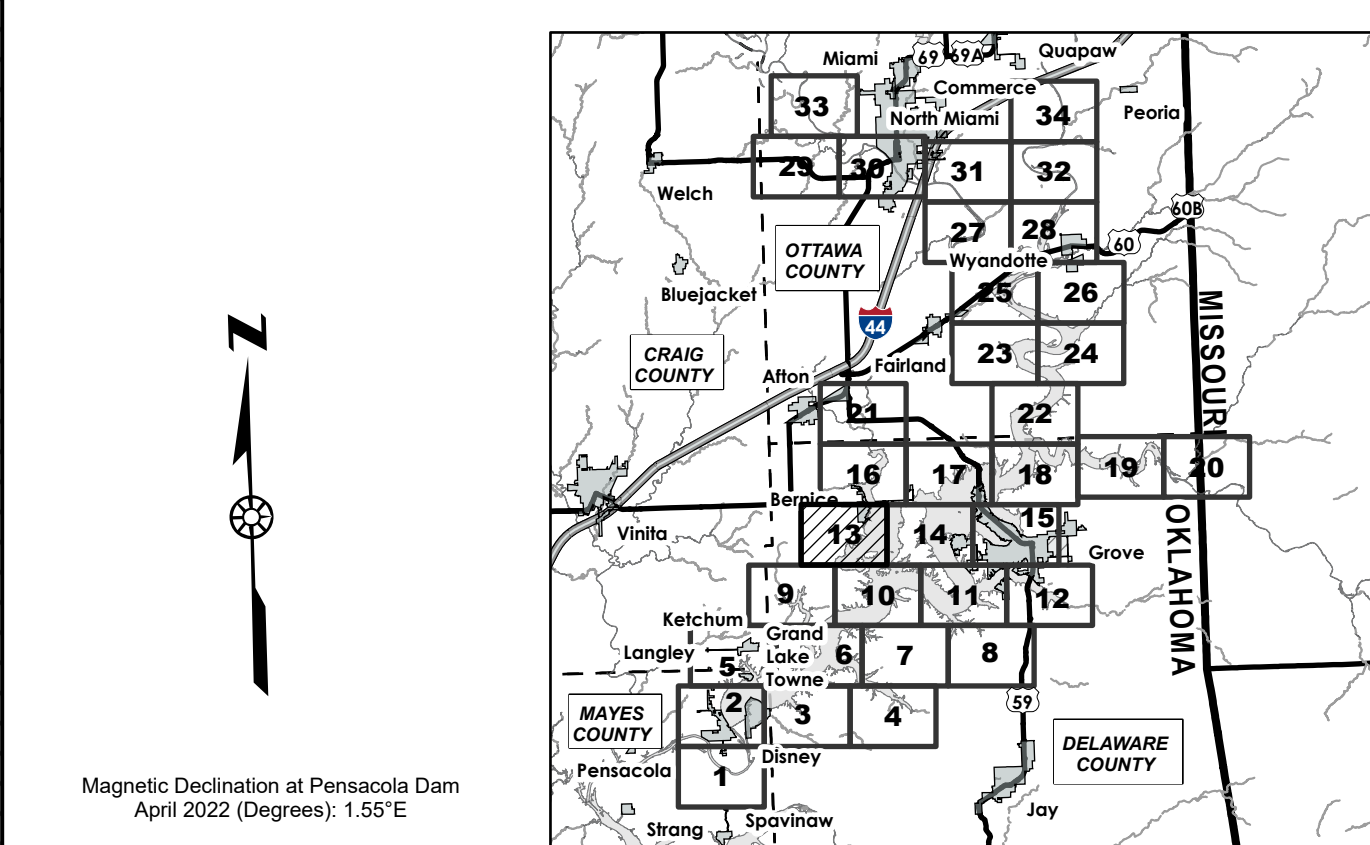
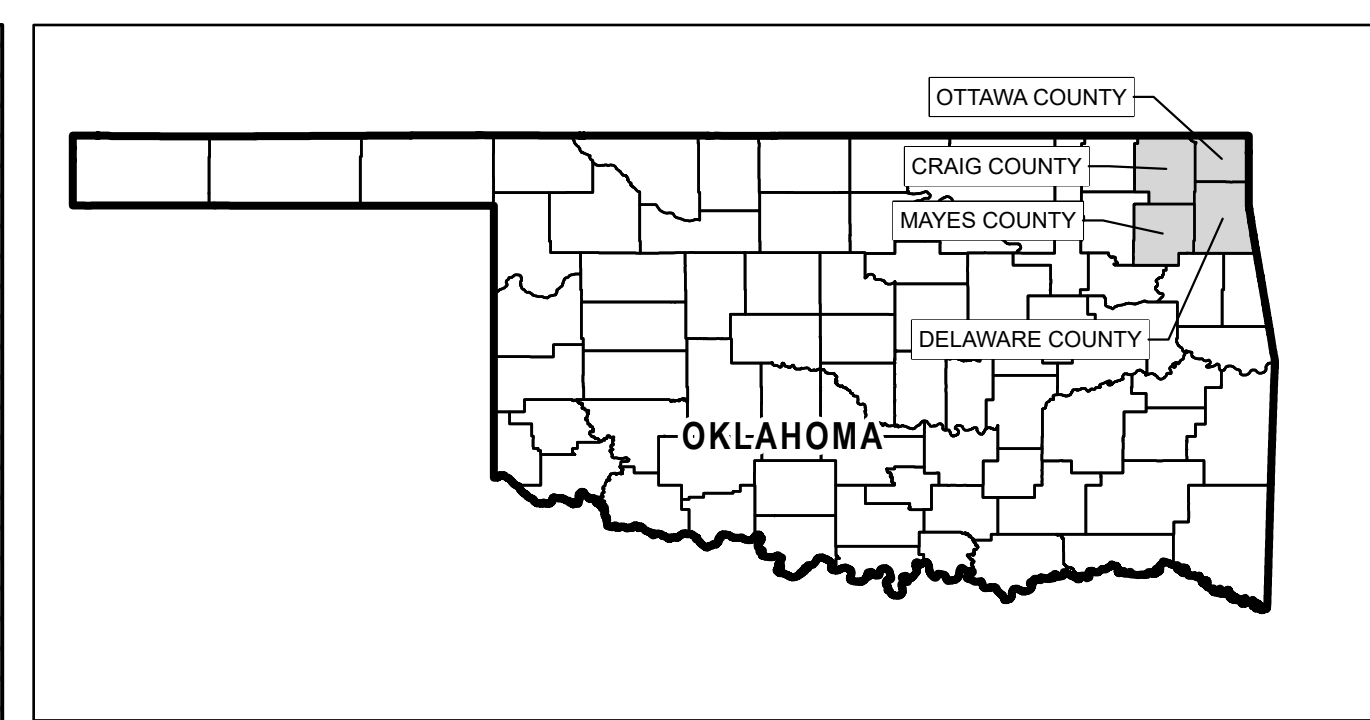
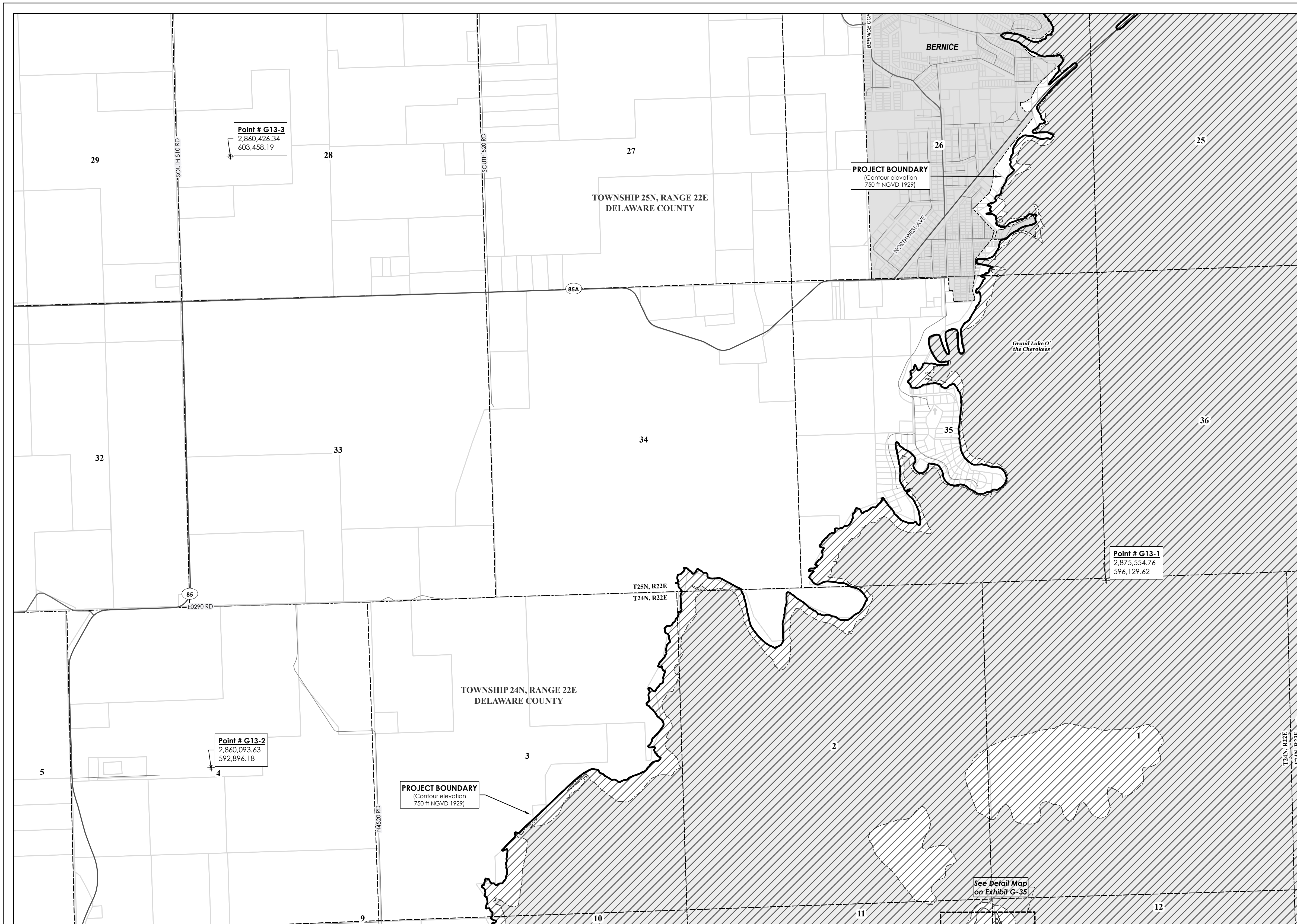


MAP NOTES

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- Public Land Survey System (PLSS) obtained from the Oklahoma Water Resources Board (<https://home-owrb.opendata.arcgis.com/>).
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- Federal lands shown were developed from Bureau of Indian Affairs (BIA) parcel data and Wetland Reserve Program (WRP) easements.

PROJECT BOUNDARY DEFINITION

- Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
- Portions of the anticipated project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
- Portions of the anticipated project boundary labeled as "Coincident with parcel line" are intended to follow a parcel boundary. See Map Note #1 for more information on parcel data sources.
- Portions of the anticipated project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.



Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

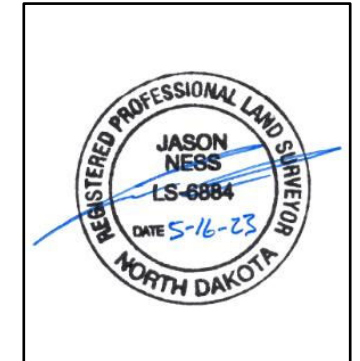
EXHIBIT G - 13
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.



[Signature]
 JASON NESS
 DATE: 5/16/2023

MAP NOTES

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- When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.

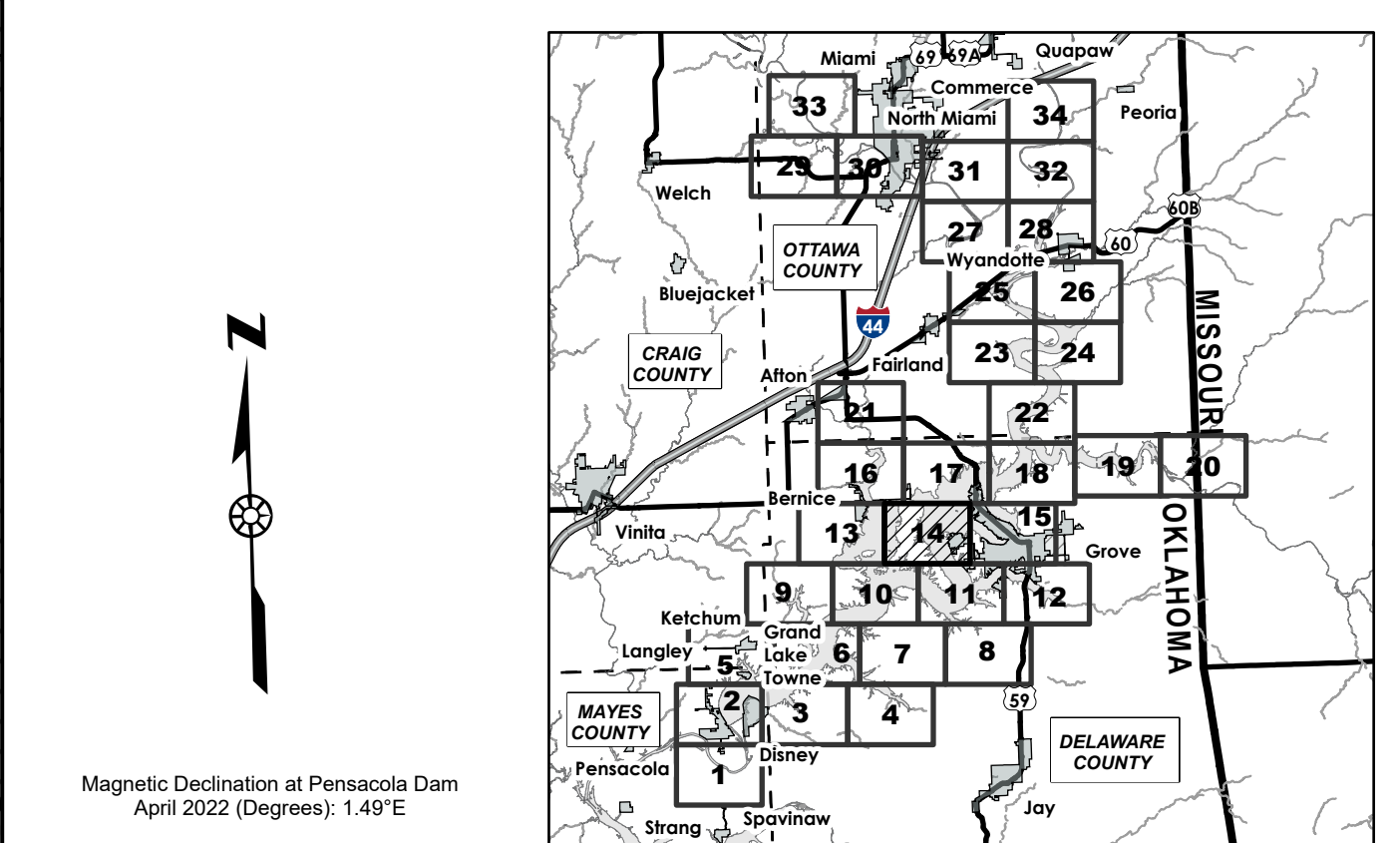
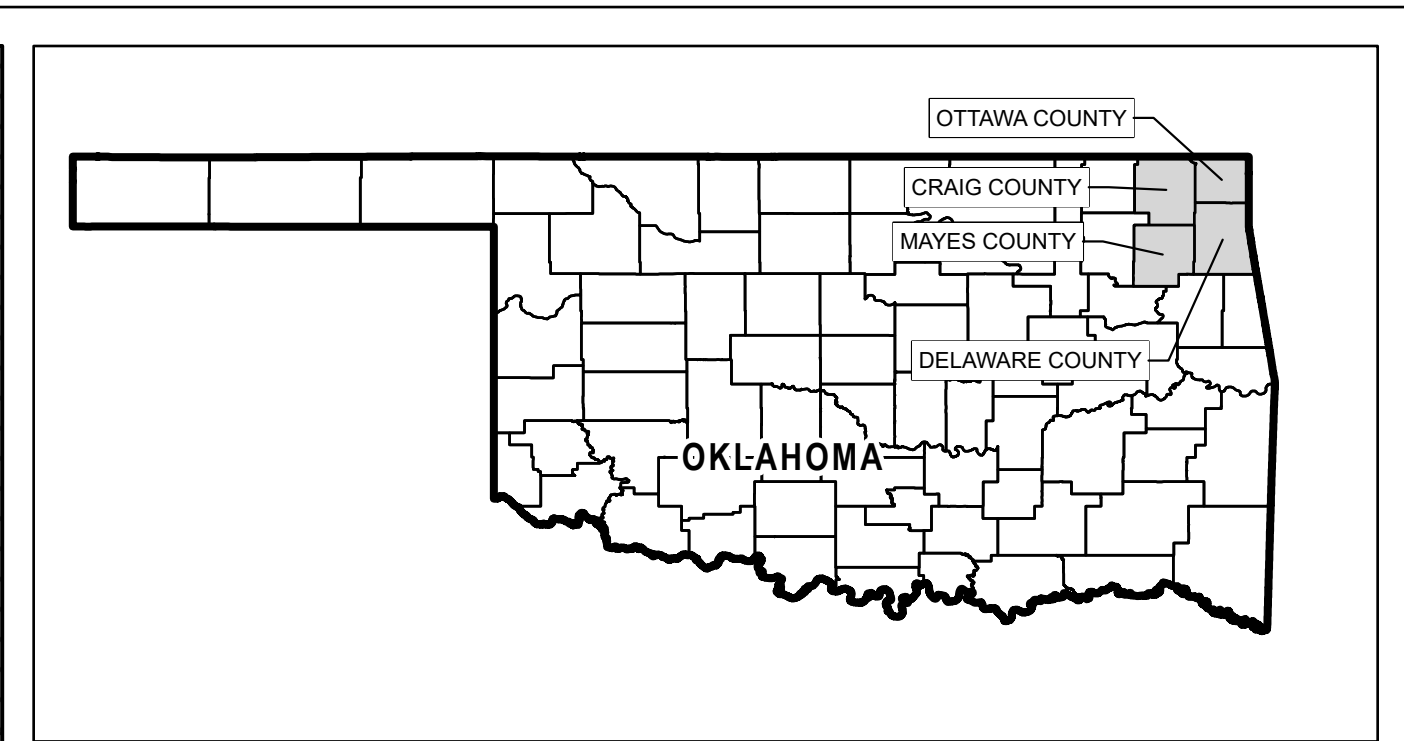
PROJECT BOUNDARY DEFINITION

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CONFLICT

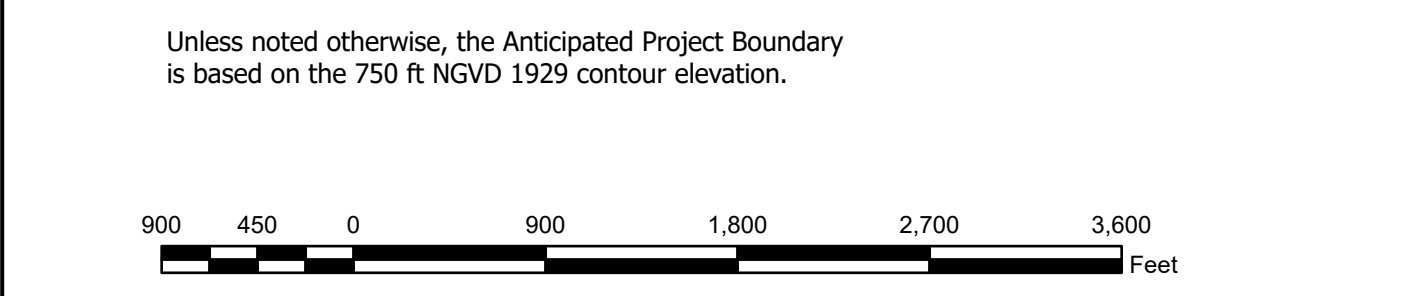
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See Detail Map on Exhibit G-35



Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	



Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 14

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

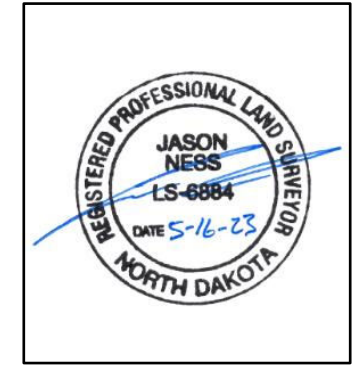
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023

JASON NESS DATE

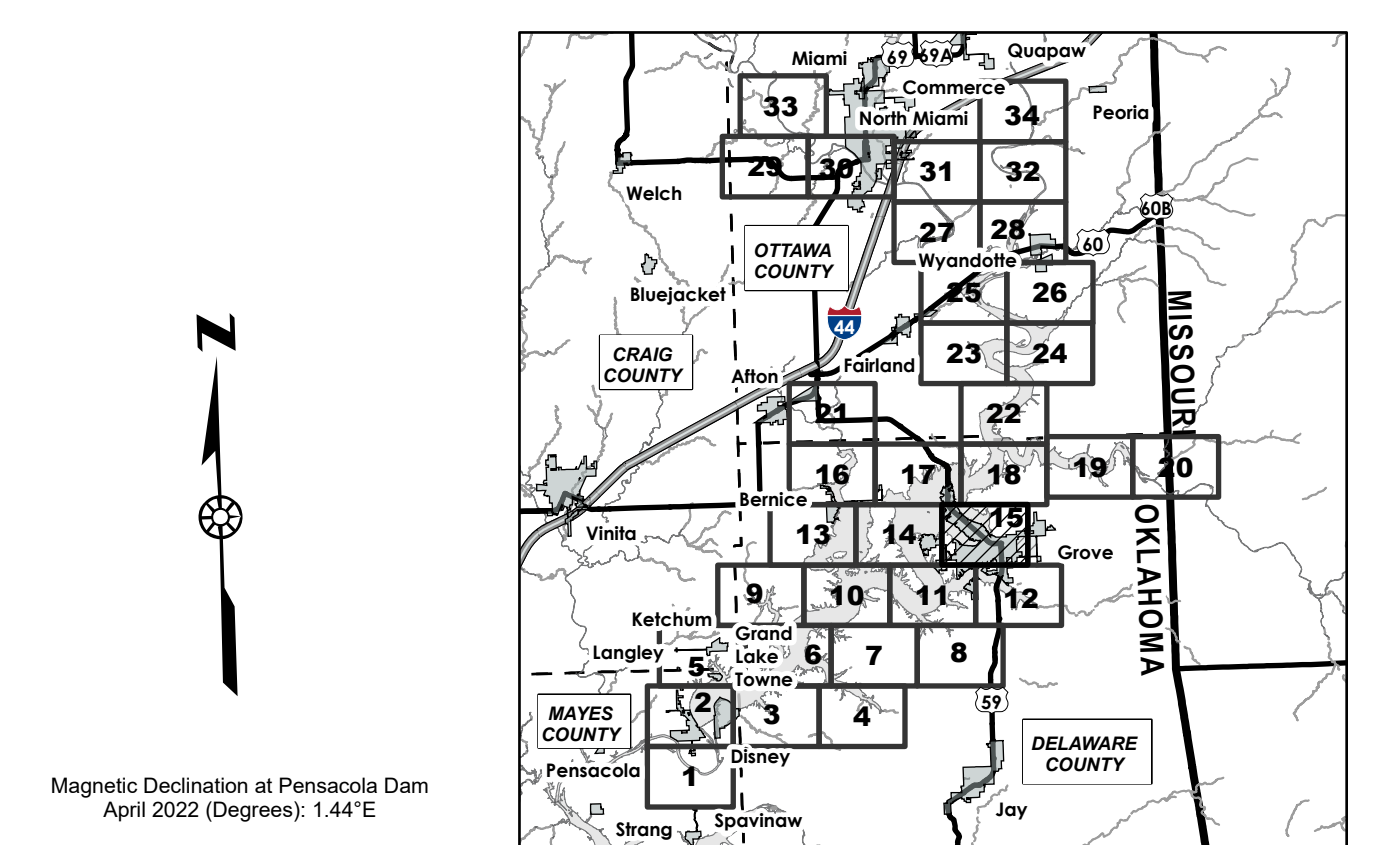
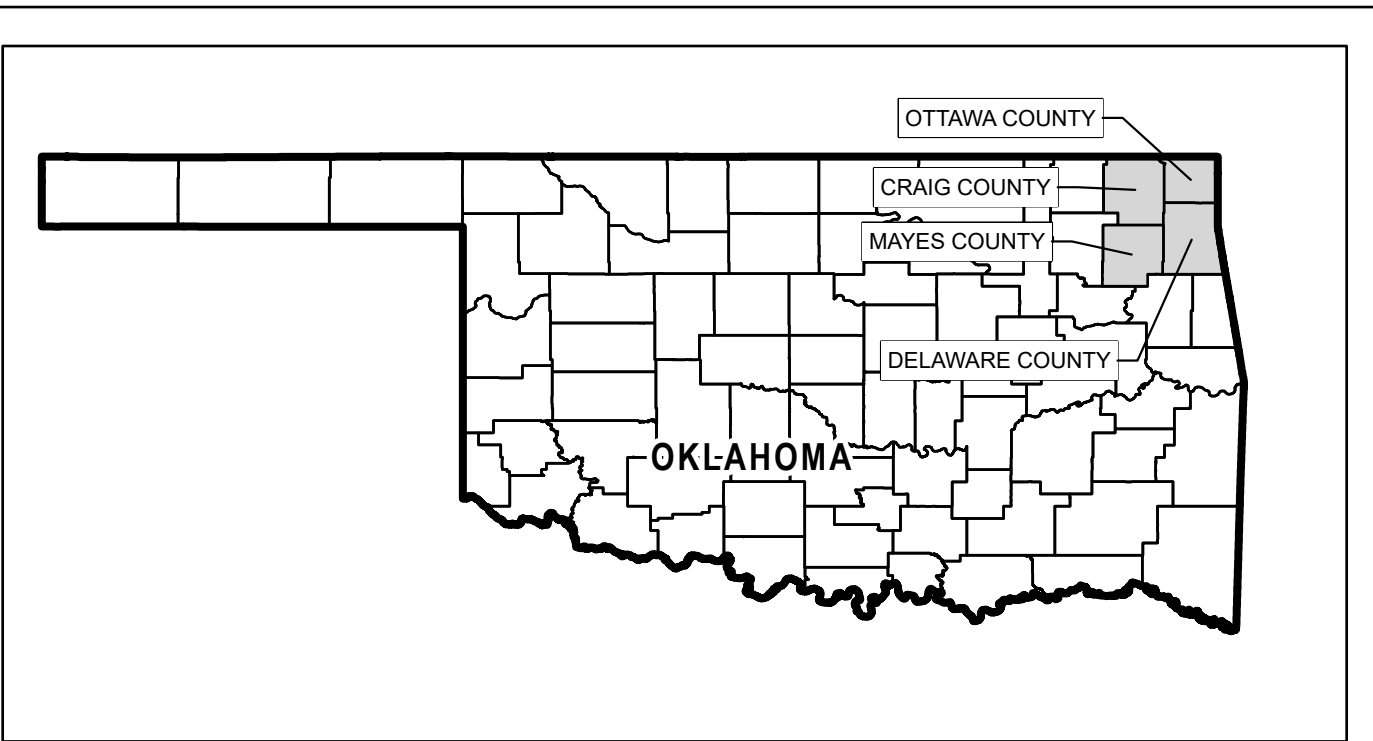
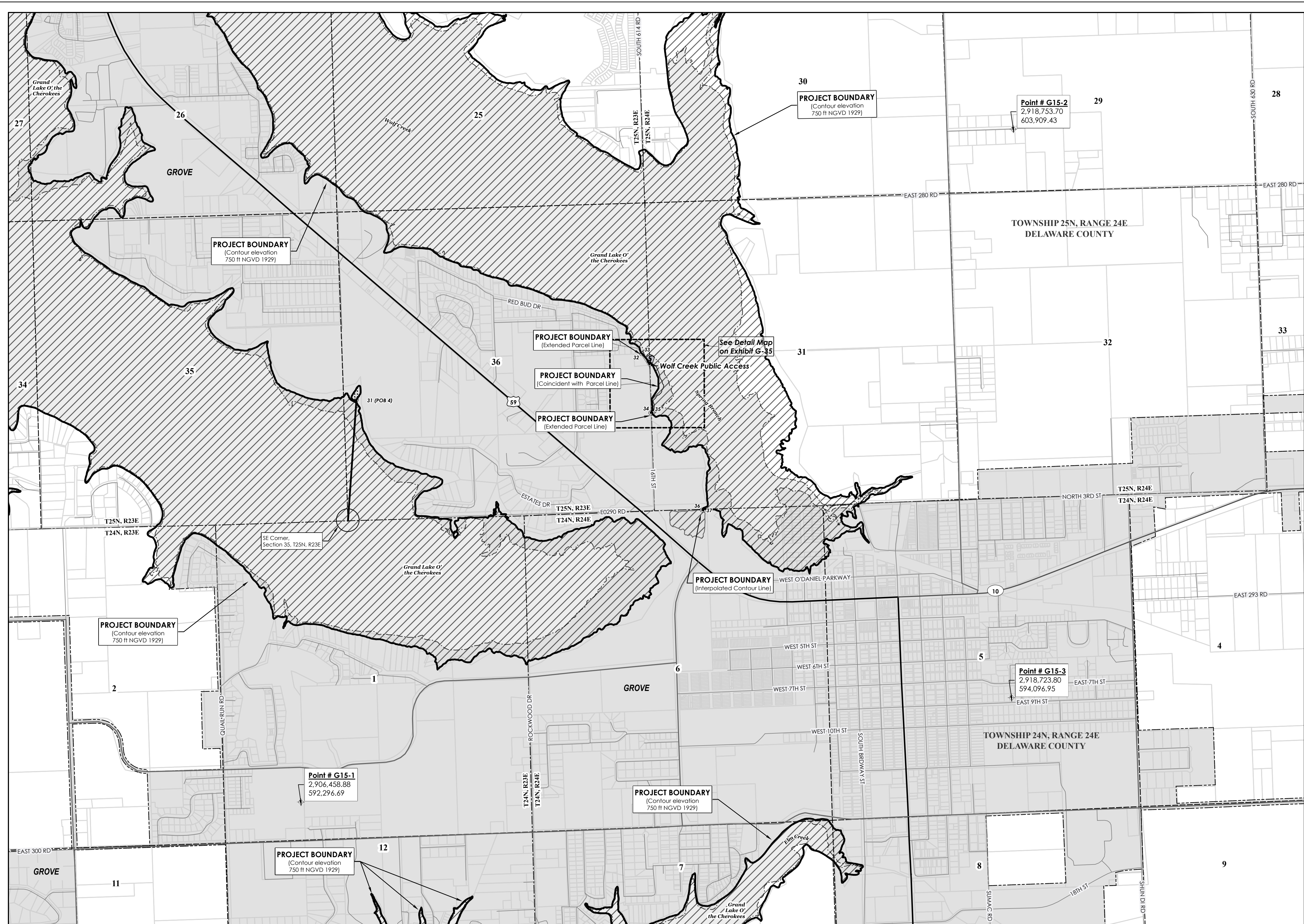


MAP NOTES
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 3. When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of

conflict.
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PROJECT BOUNDARY DEFINITION
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Legend

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Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
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Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 15
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

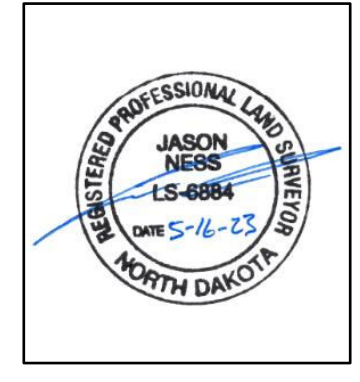
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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5/16/2023
 DATE

JASON NESS

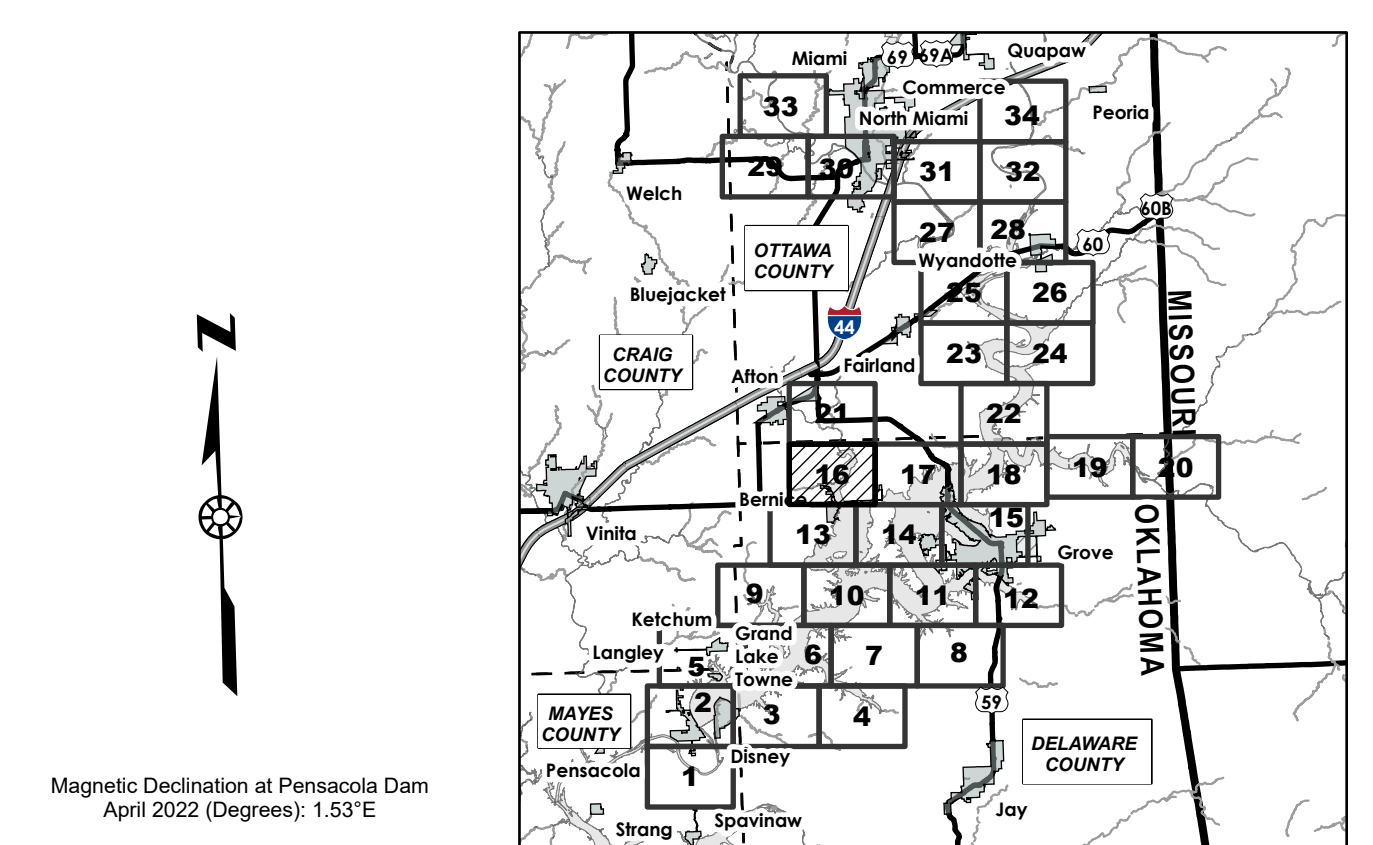
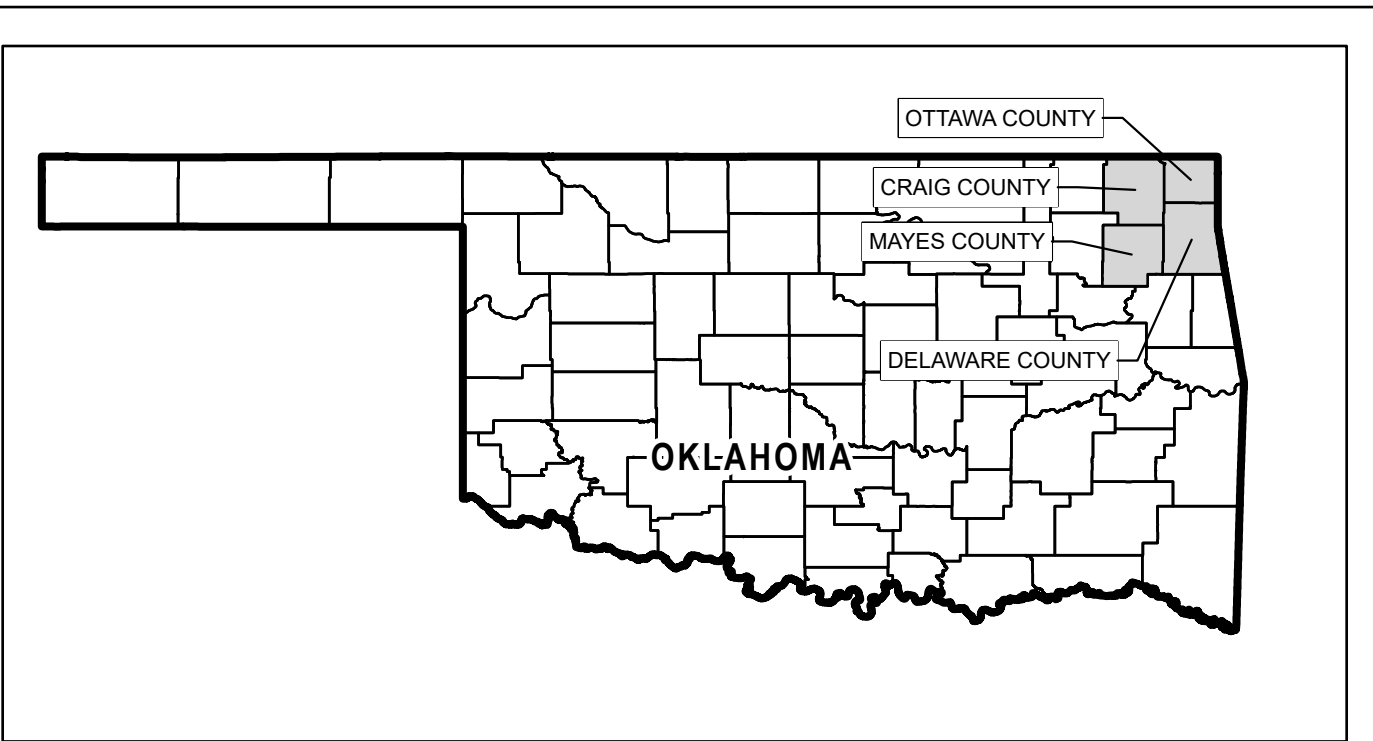
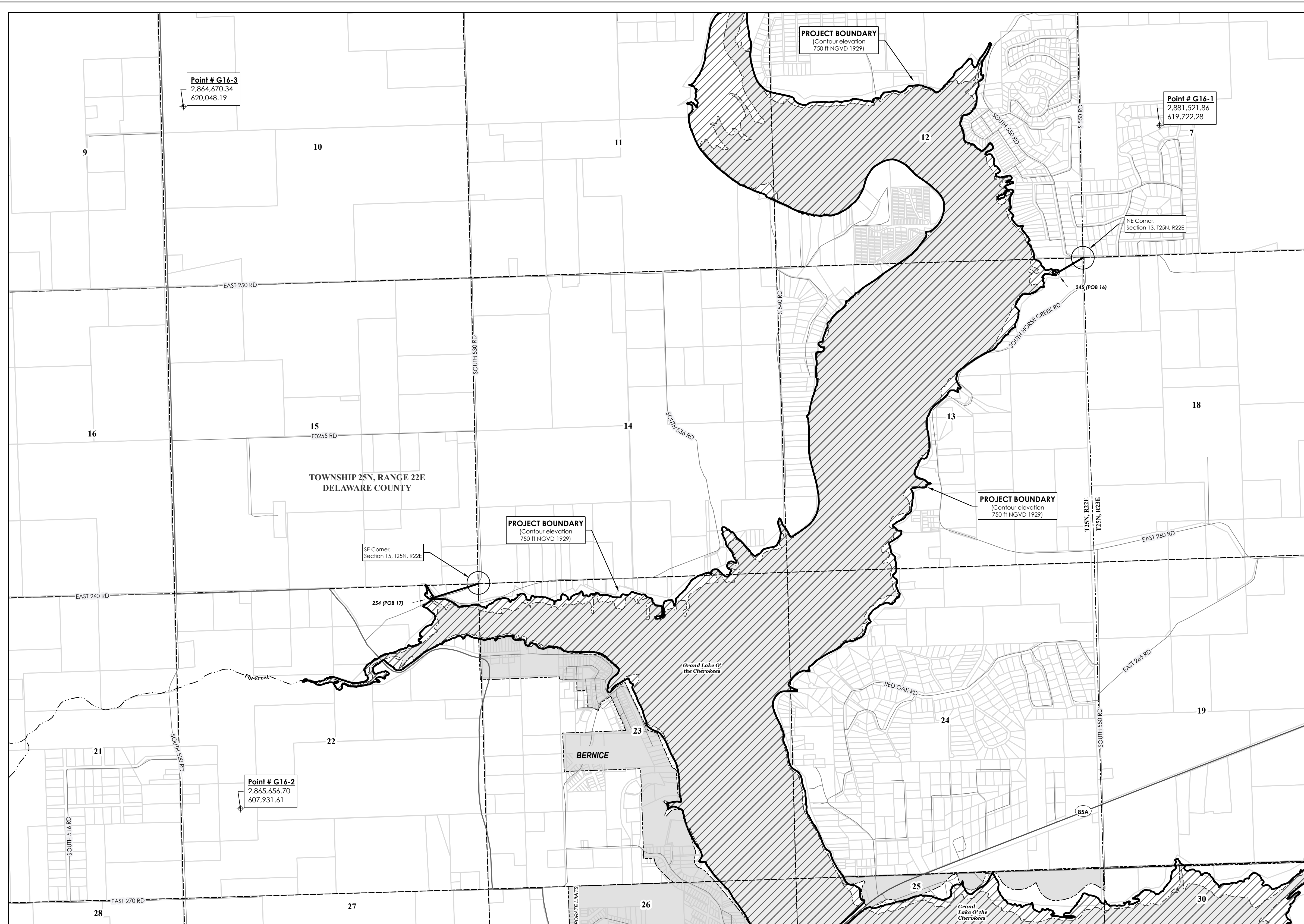


MAP NOTES

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Legend

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 16
LANGLEY, OKLAHOMA

GRAND RIVER DAM AUTHORITY

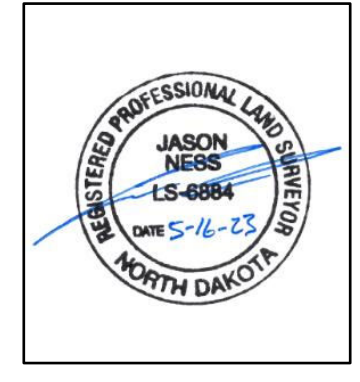
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

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DATE

JASON NESS

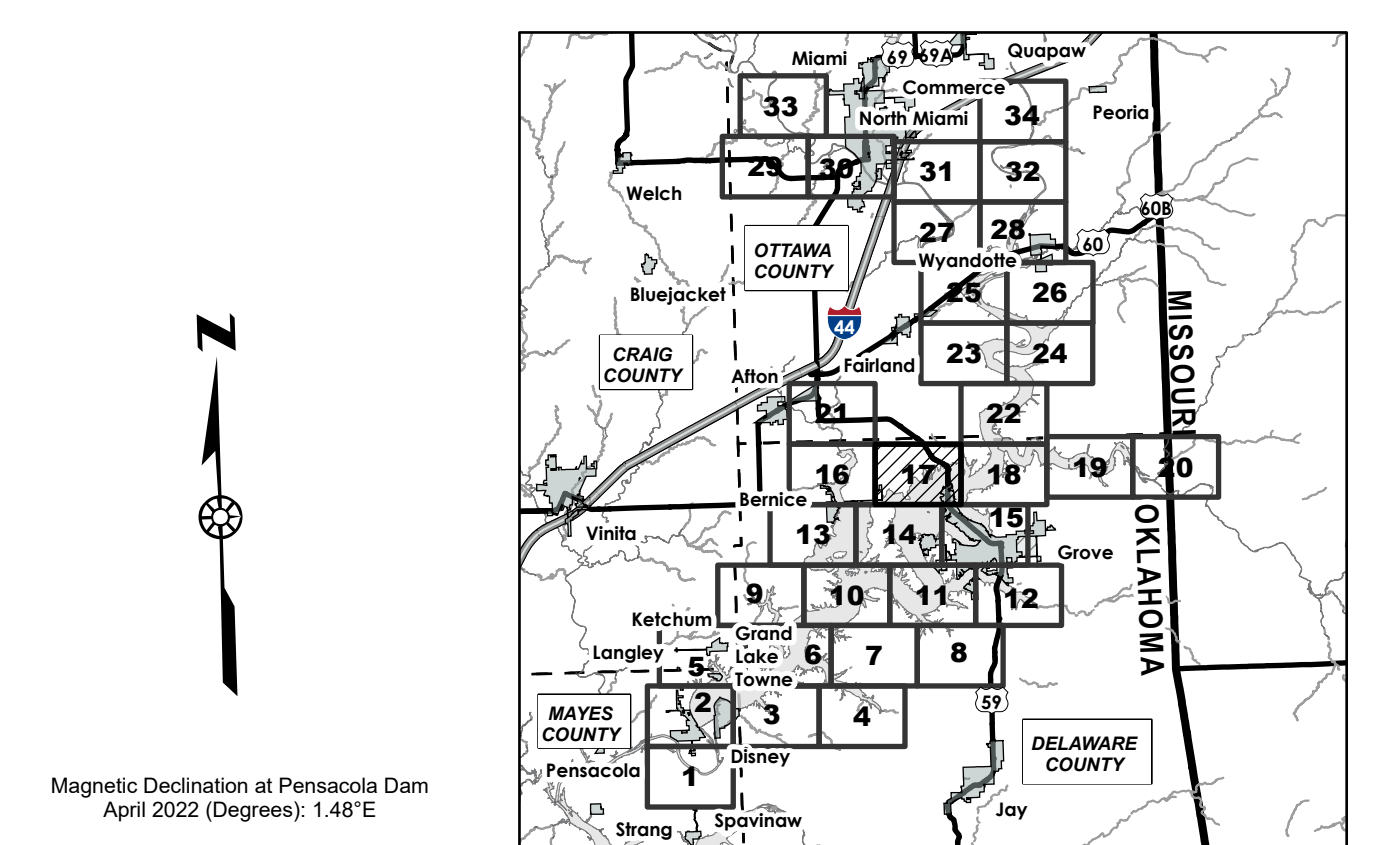
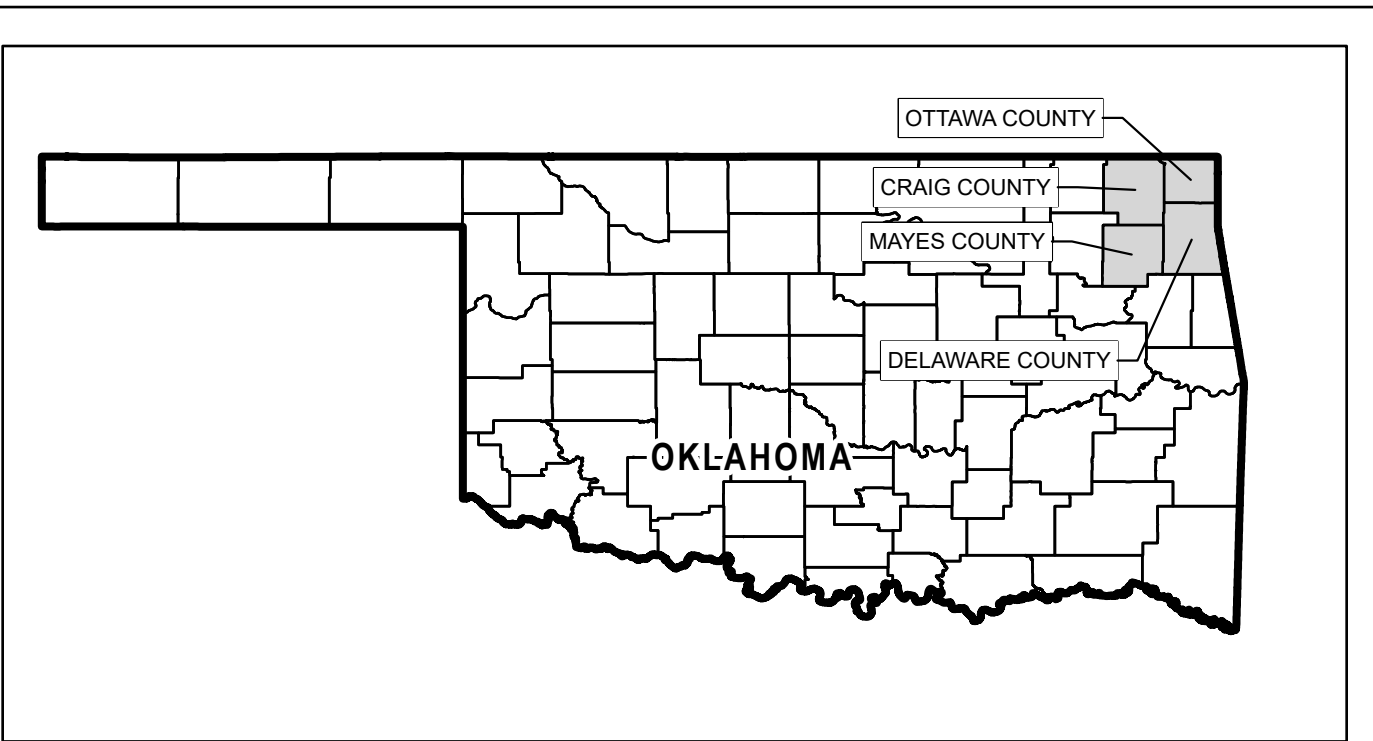
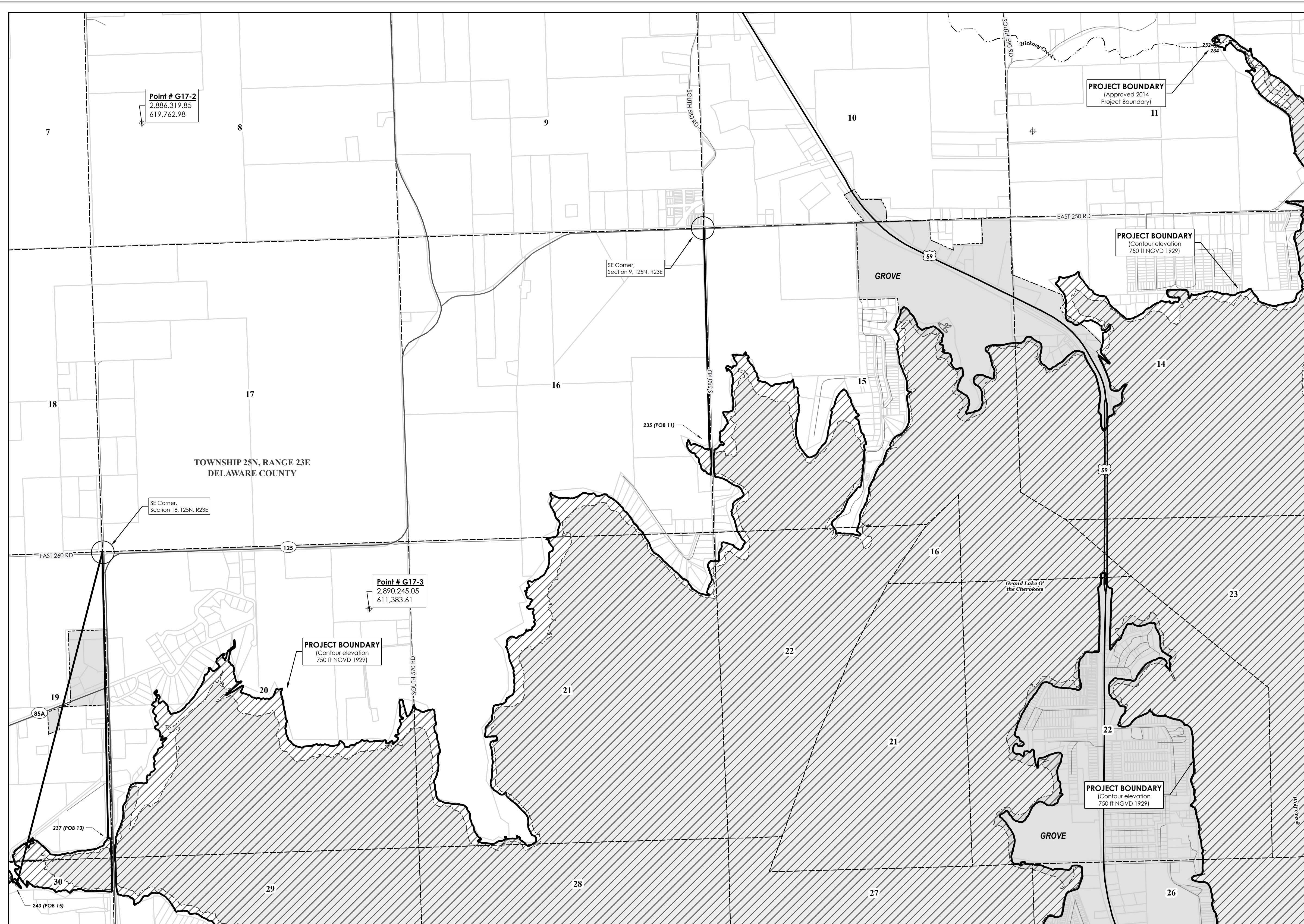


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PROJECT BOUNDARY DEFINITION

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Legend

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 17
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

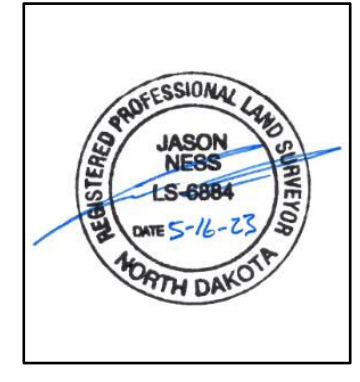
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

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5/16/2023
 DATE

JASON NESS

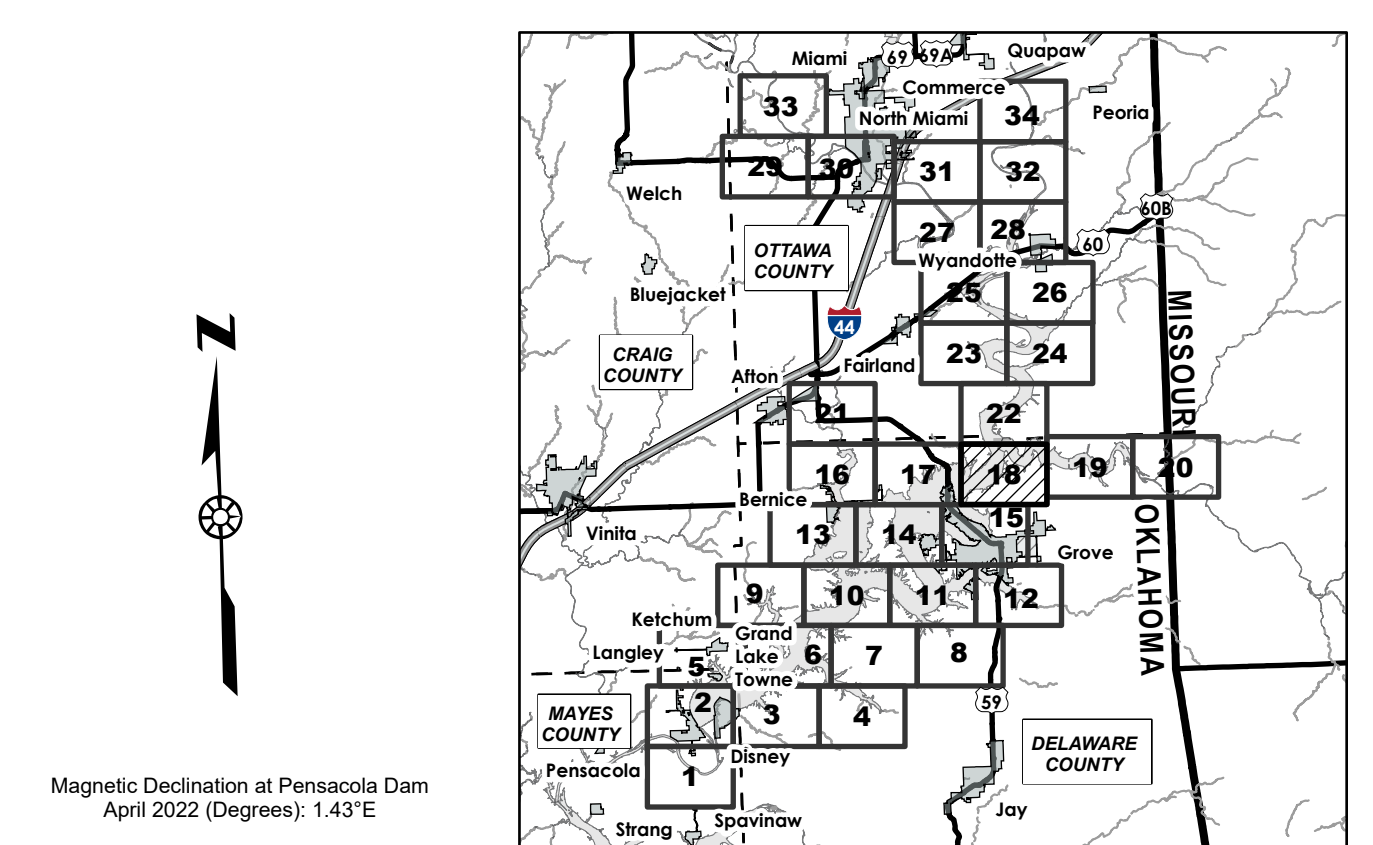
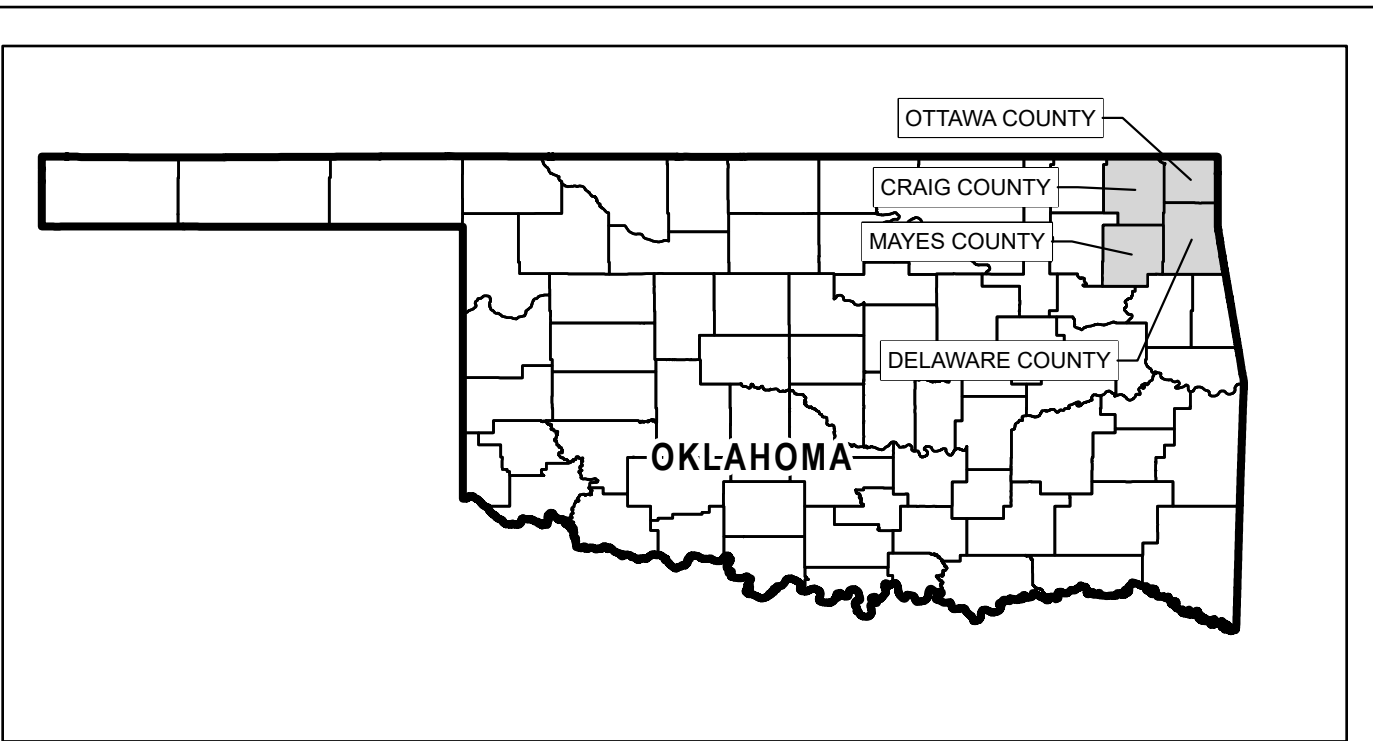
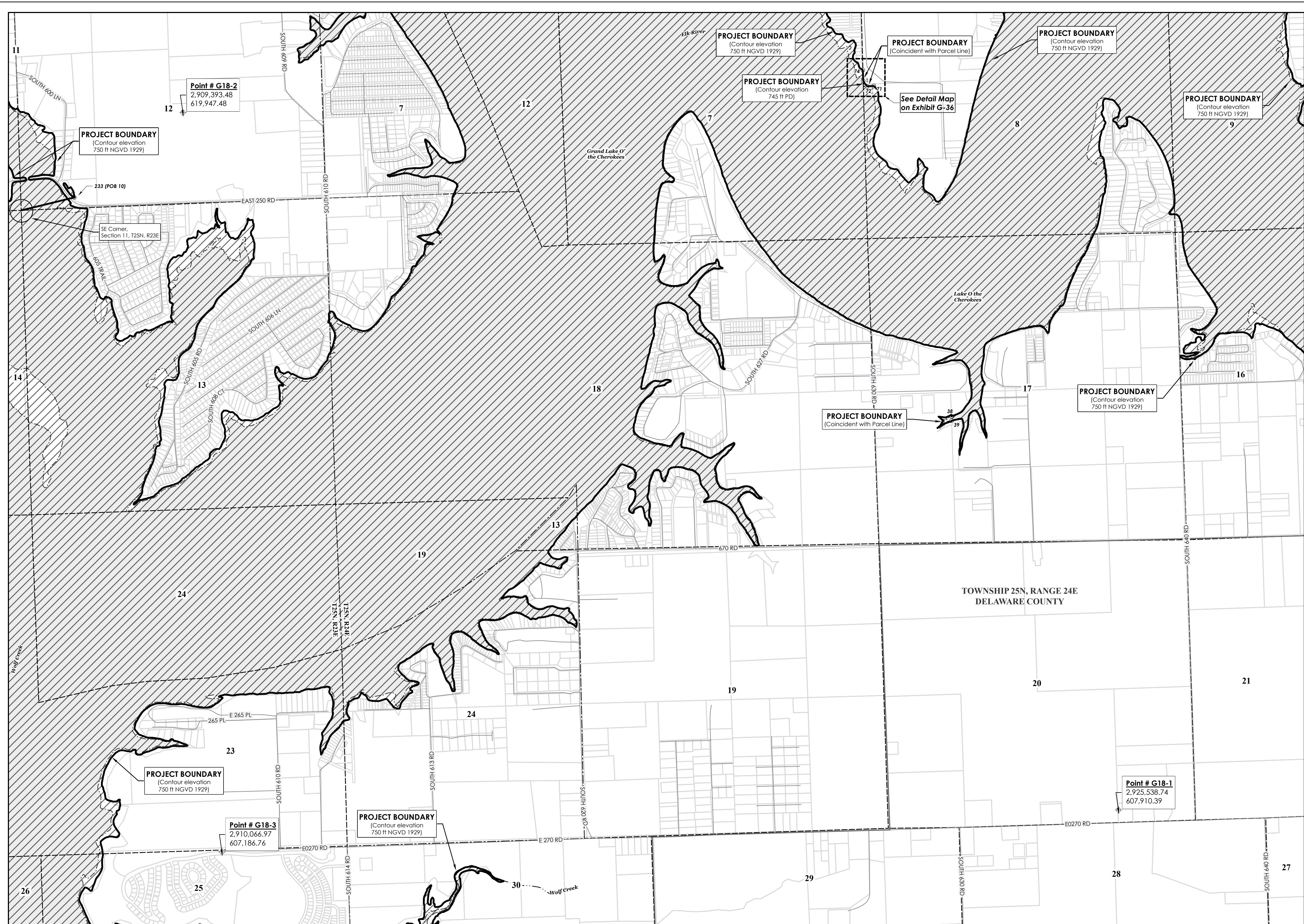


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Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
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Project Boundary		Section Line	Local Road
		Municipal Boundary	

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900 450 0 900 1,800 2,700 3,600 Feet

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EXHIBIT G - 18
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

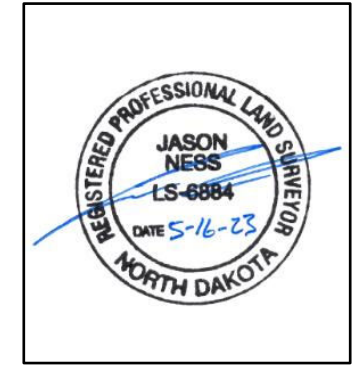
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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5/16/2023
 DATE

JASON NESS

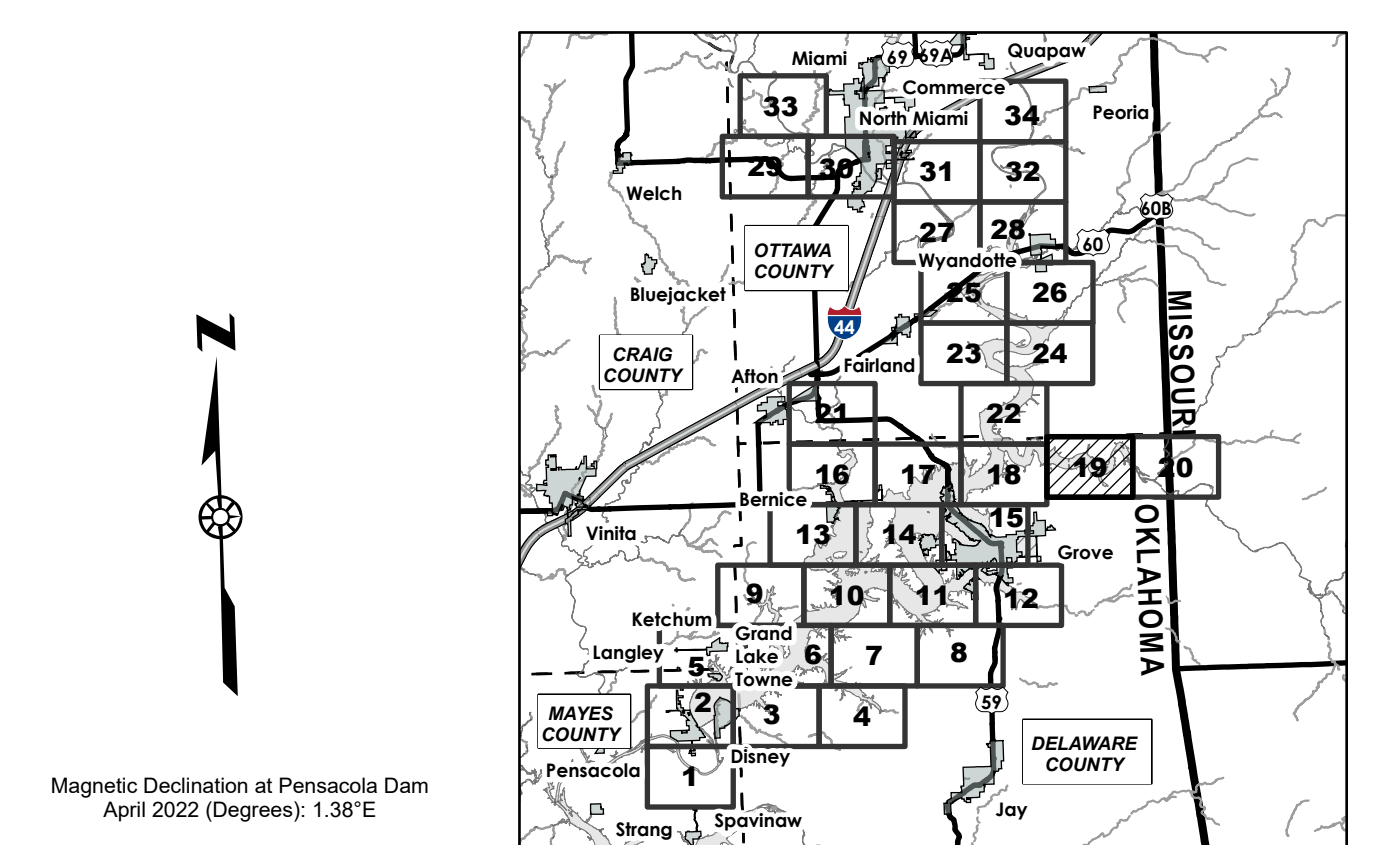
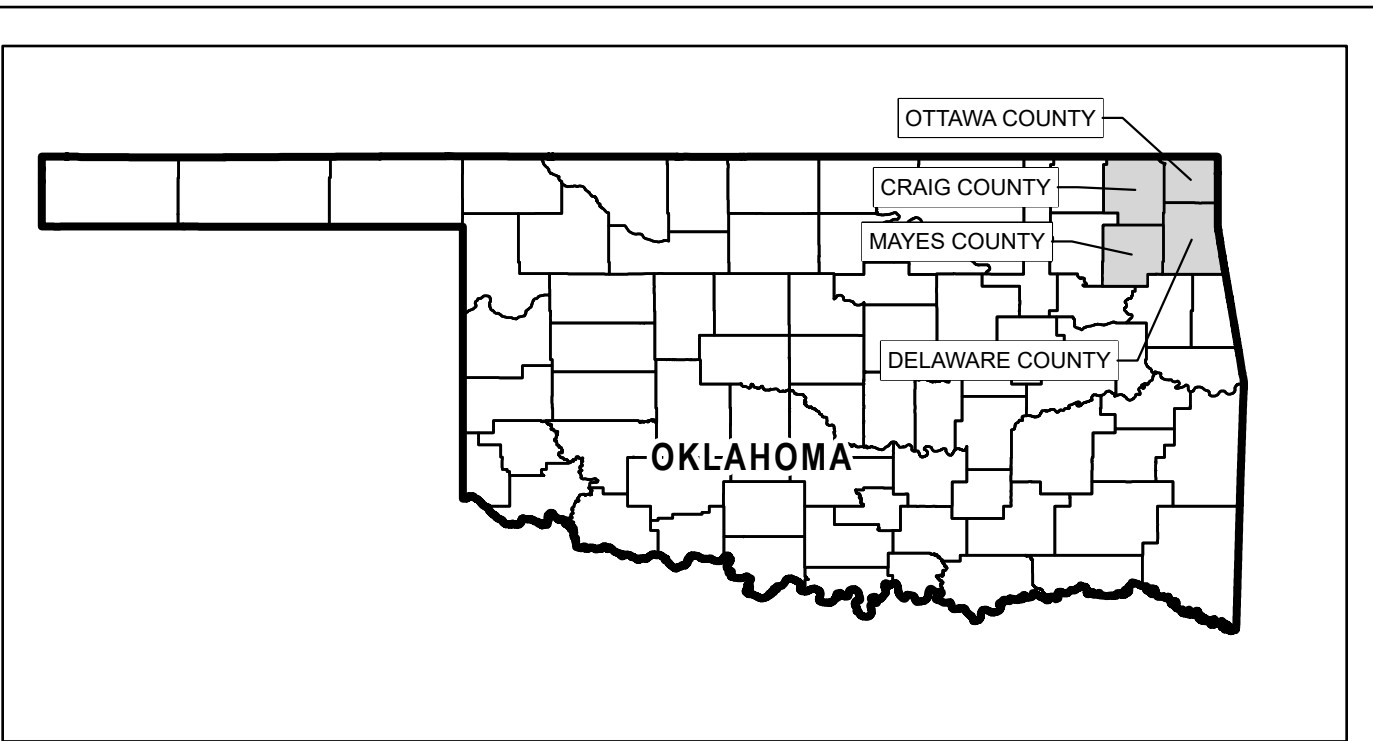
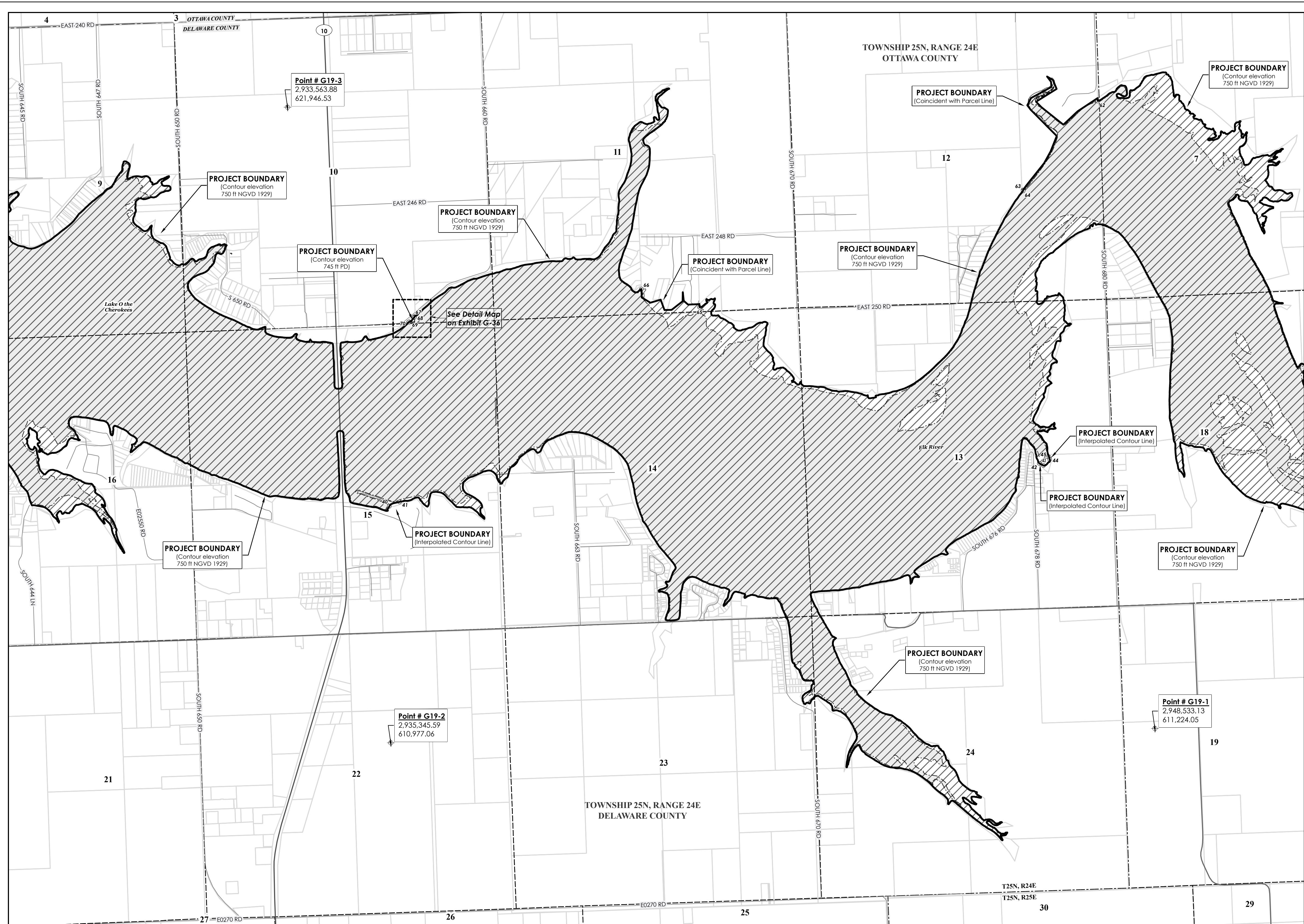


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Legend

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 19

GRAND RIVER DAM AUTHORITY LANGLEY, OKLAHOMA

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

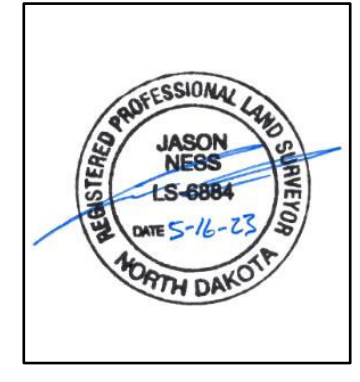
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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5/16/2023
DATE

JASON NESS



MAP NOTES

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PROJECT BOUNDARY DEFINITION

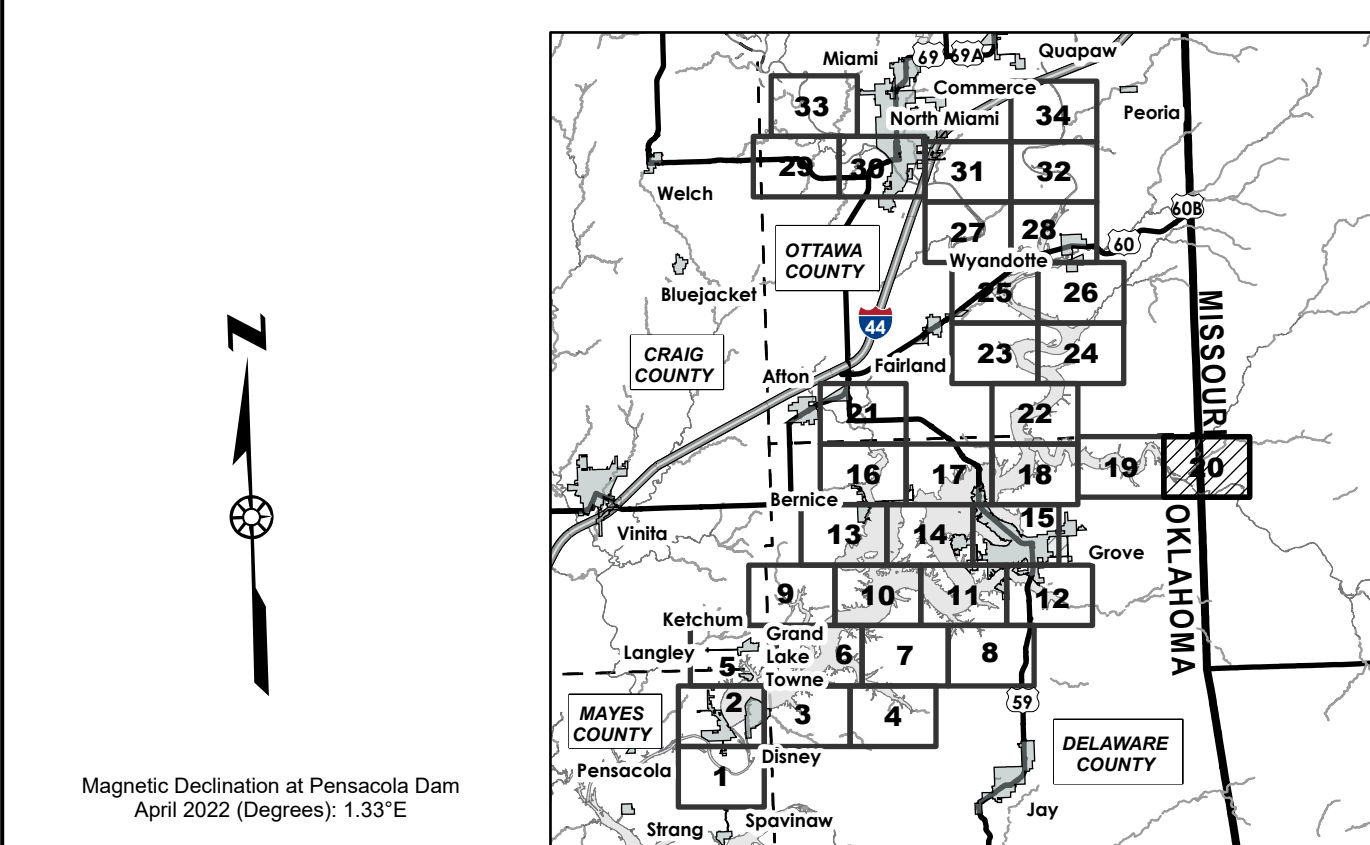
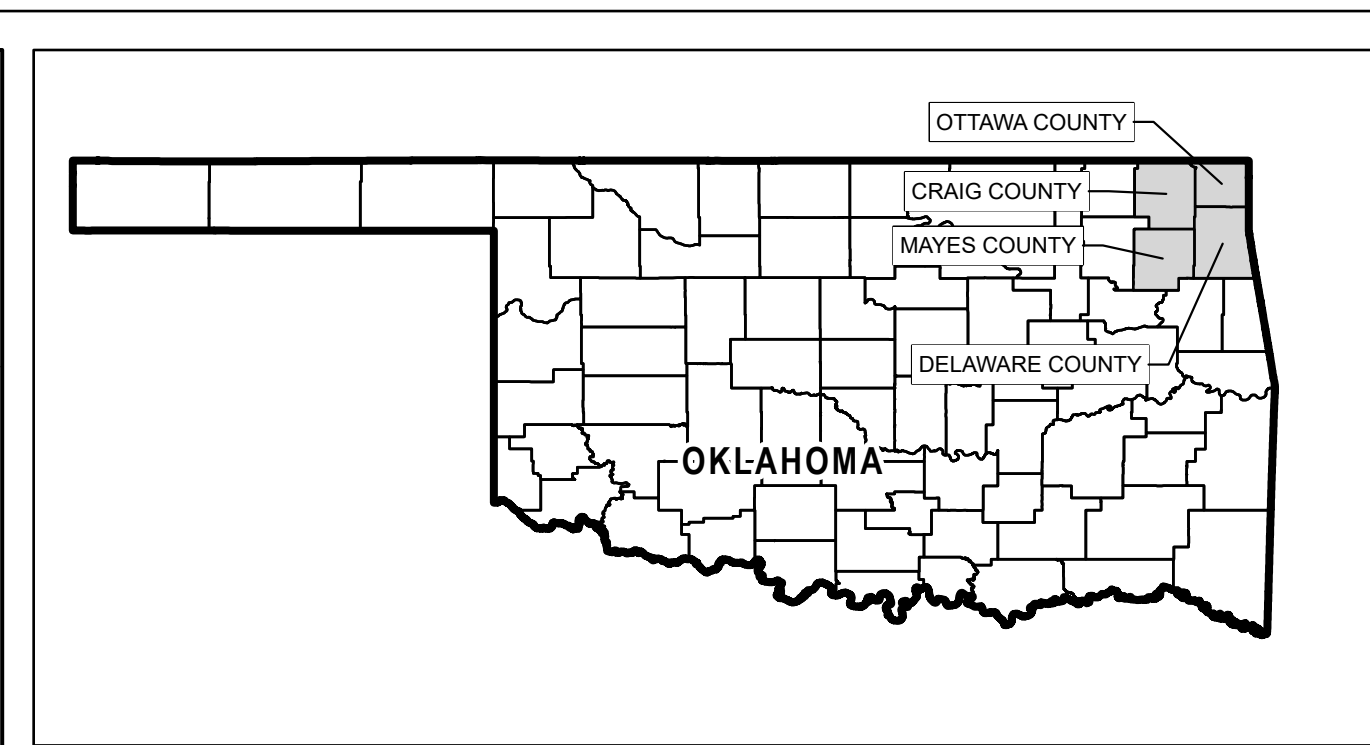
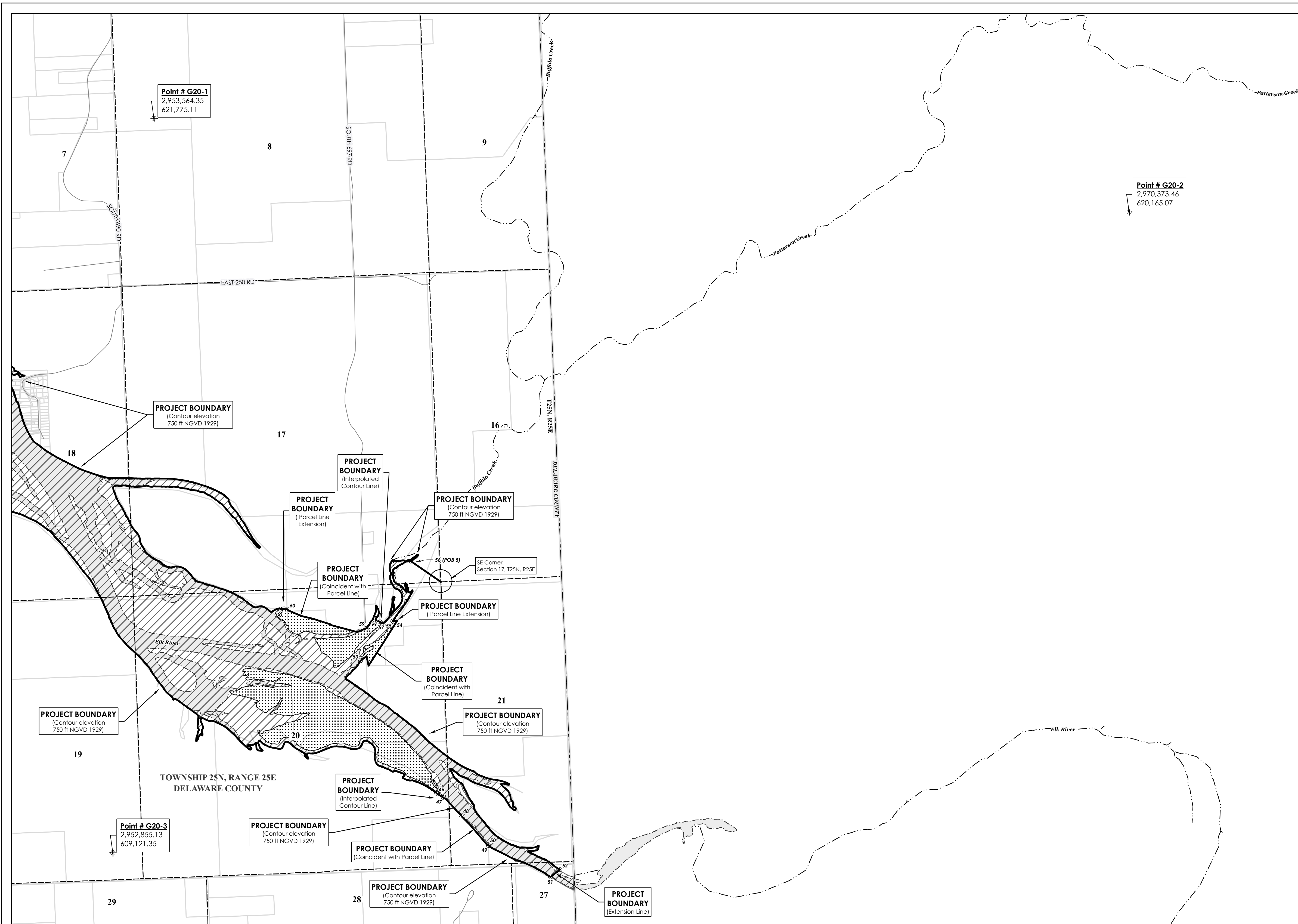
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900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 20

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

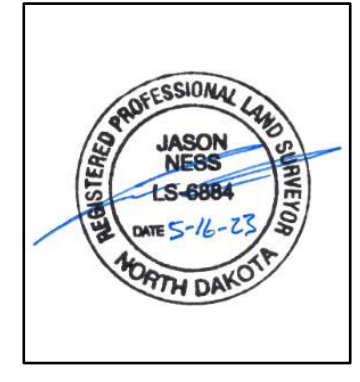
PROJECT BOUNDARY MAP

DATE: MAY 2023

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5/16/2023
 DATE

JASON NESS

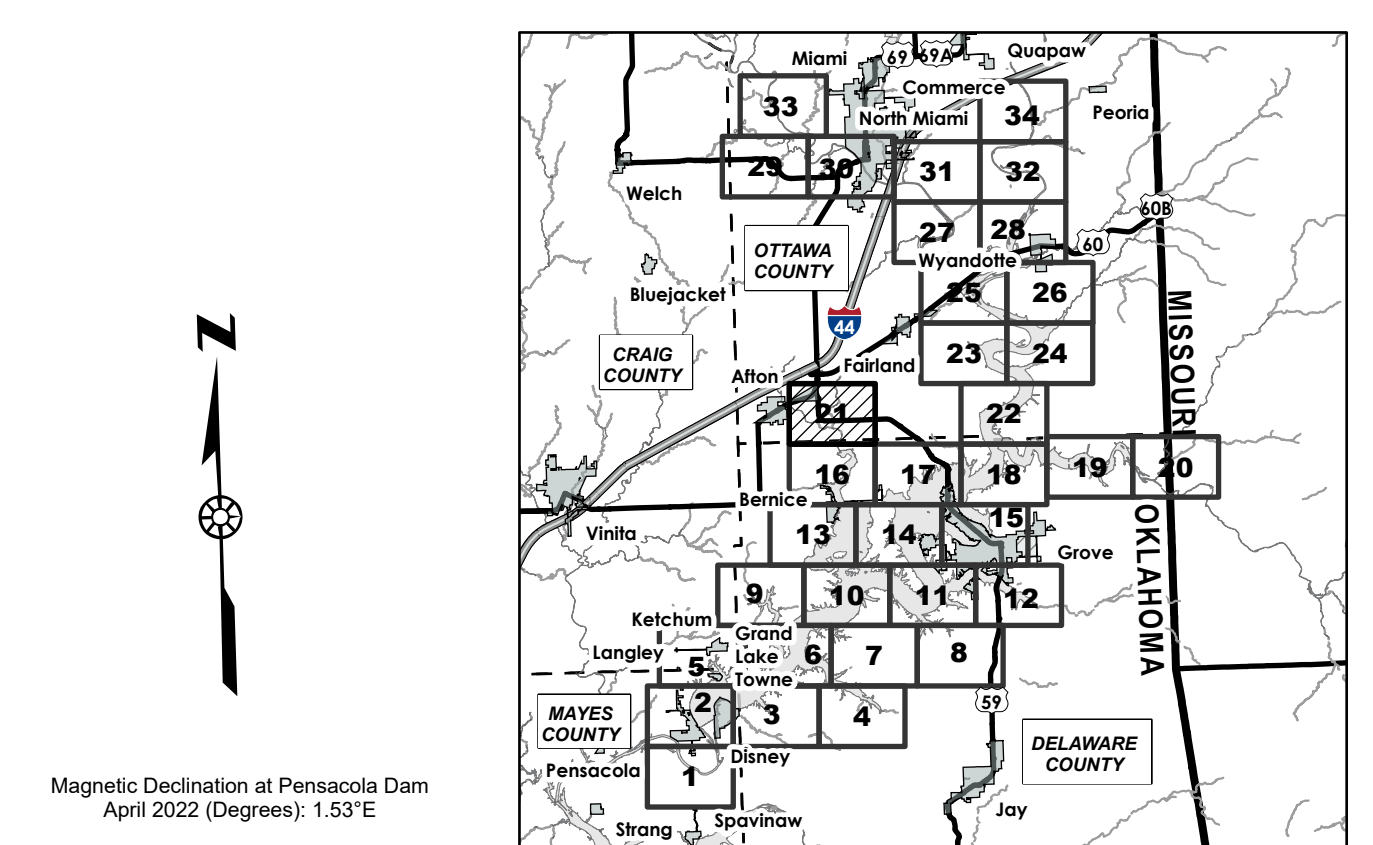
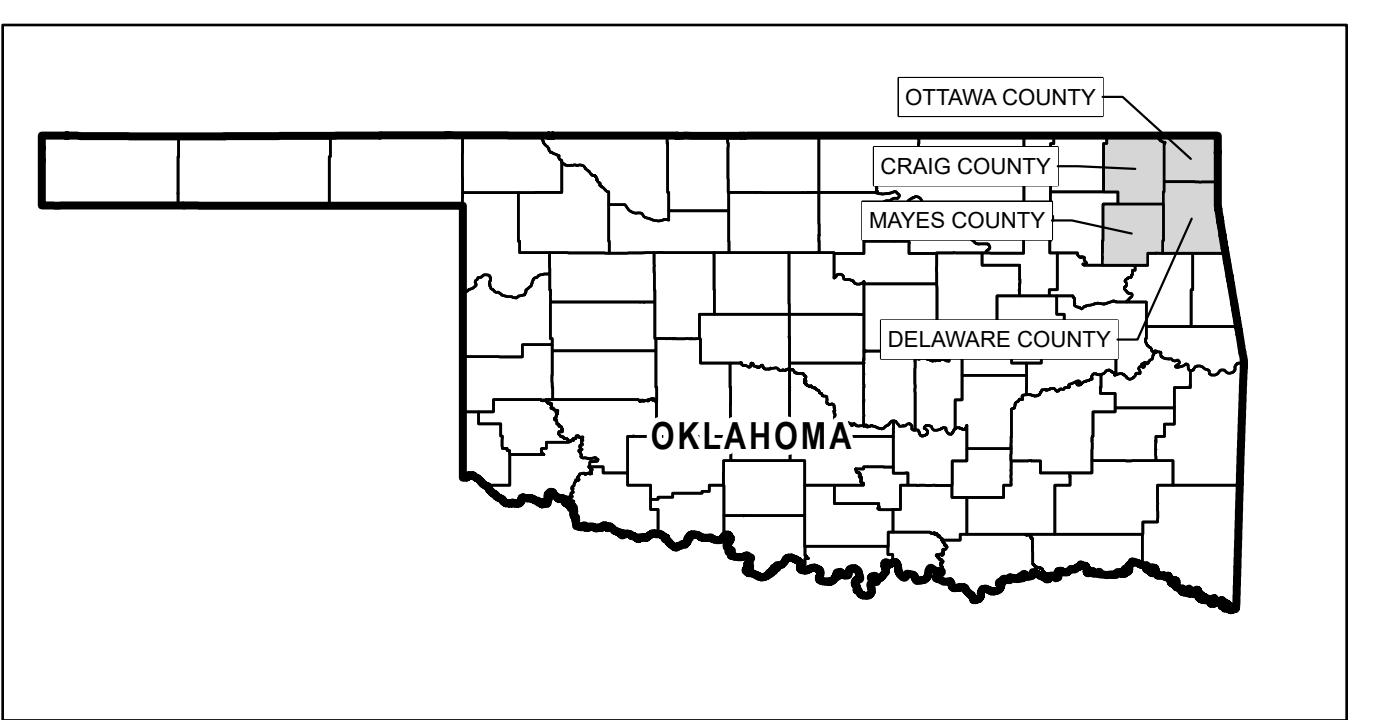
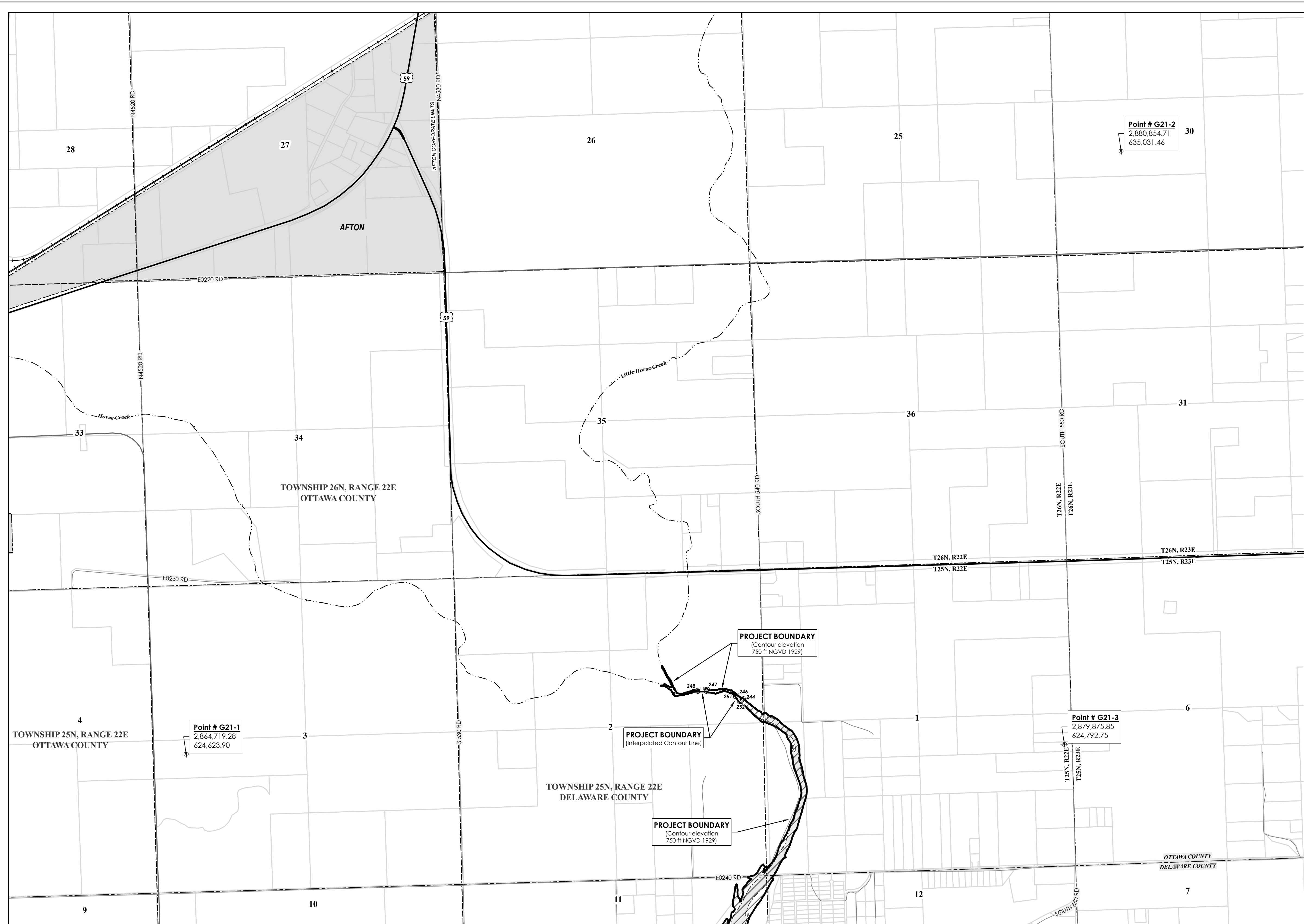


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Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

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EXHIBIT G - 21

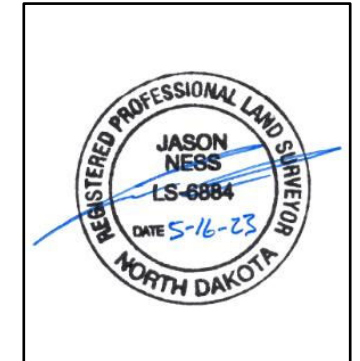
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

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5/16/2023
DATE



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PROJECT BOUNDARY DEFINITION

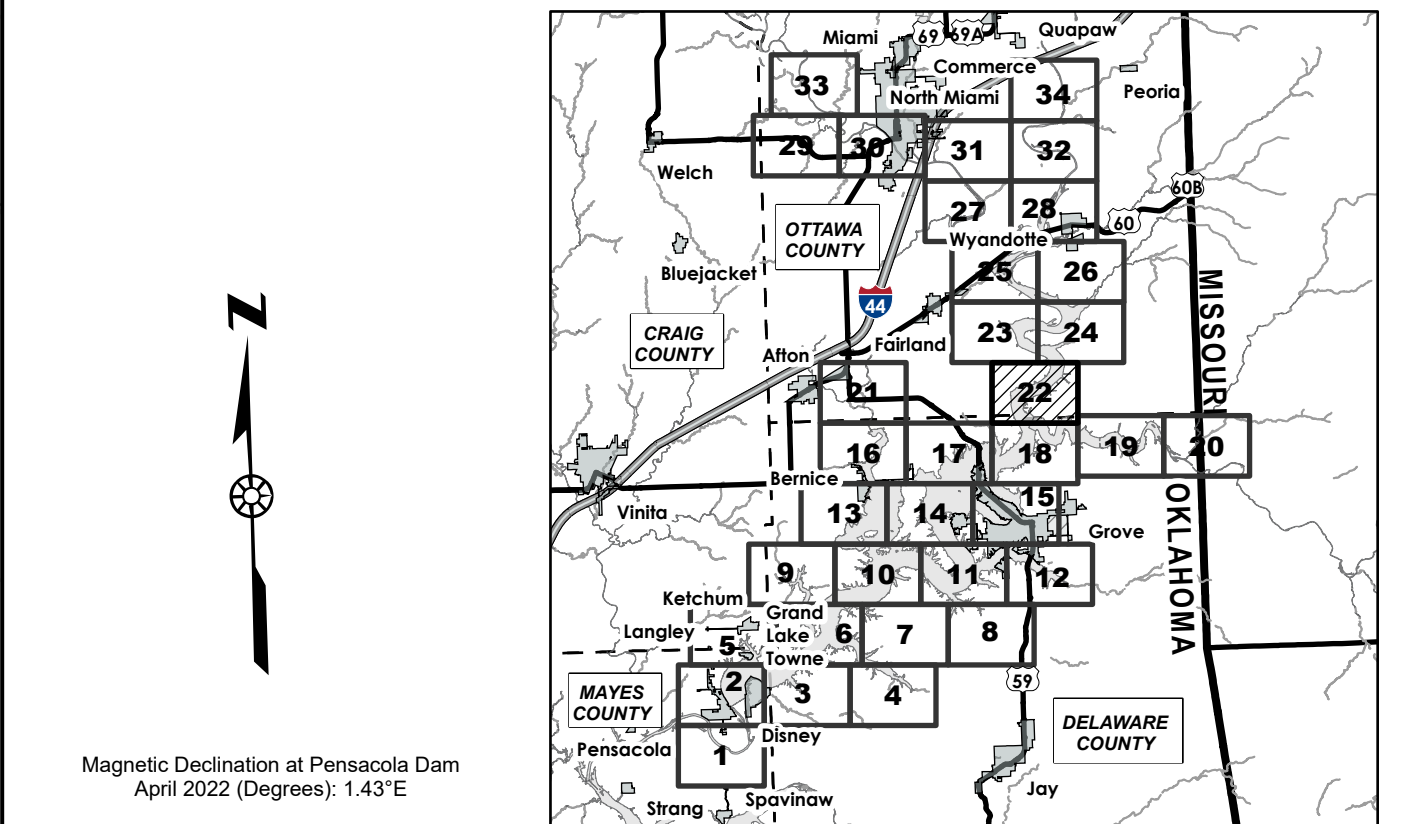
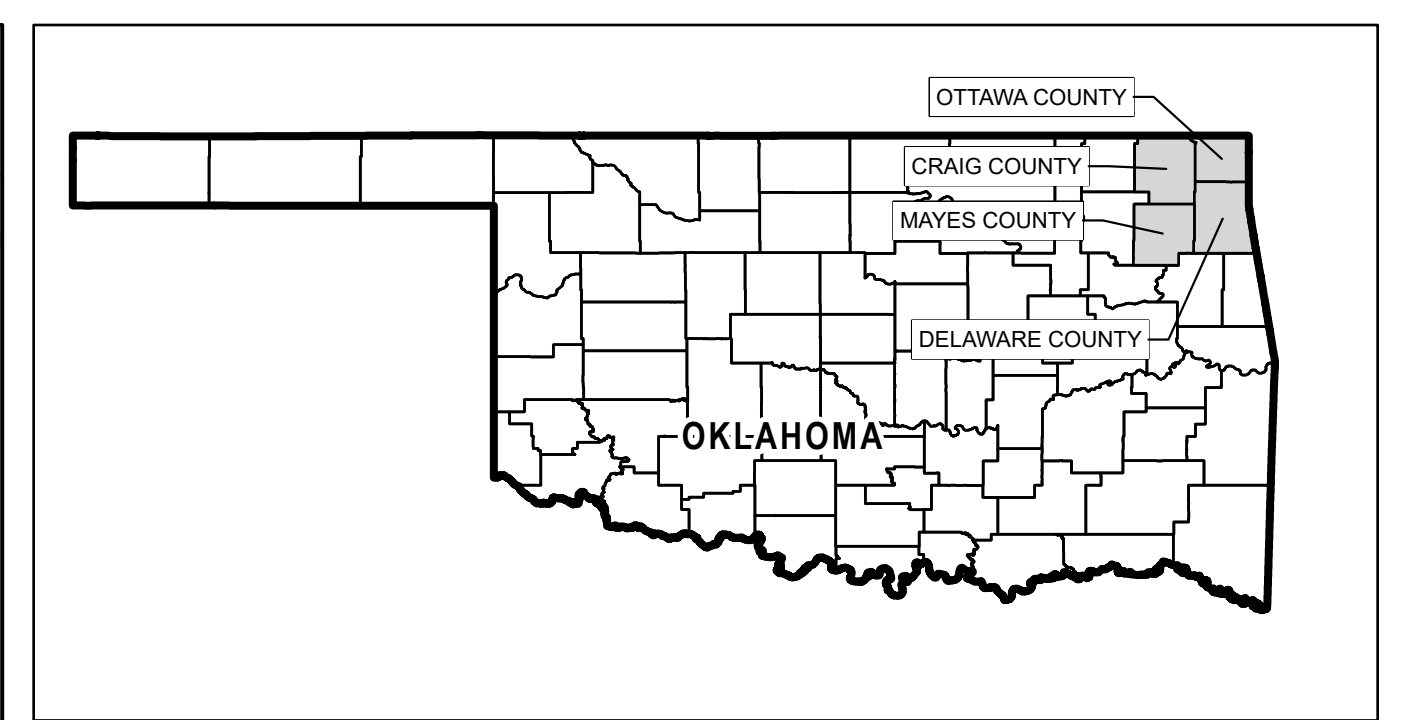
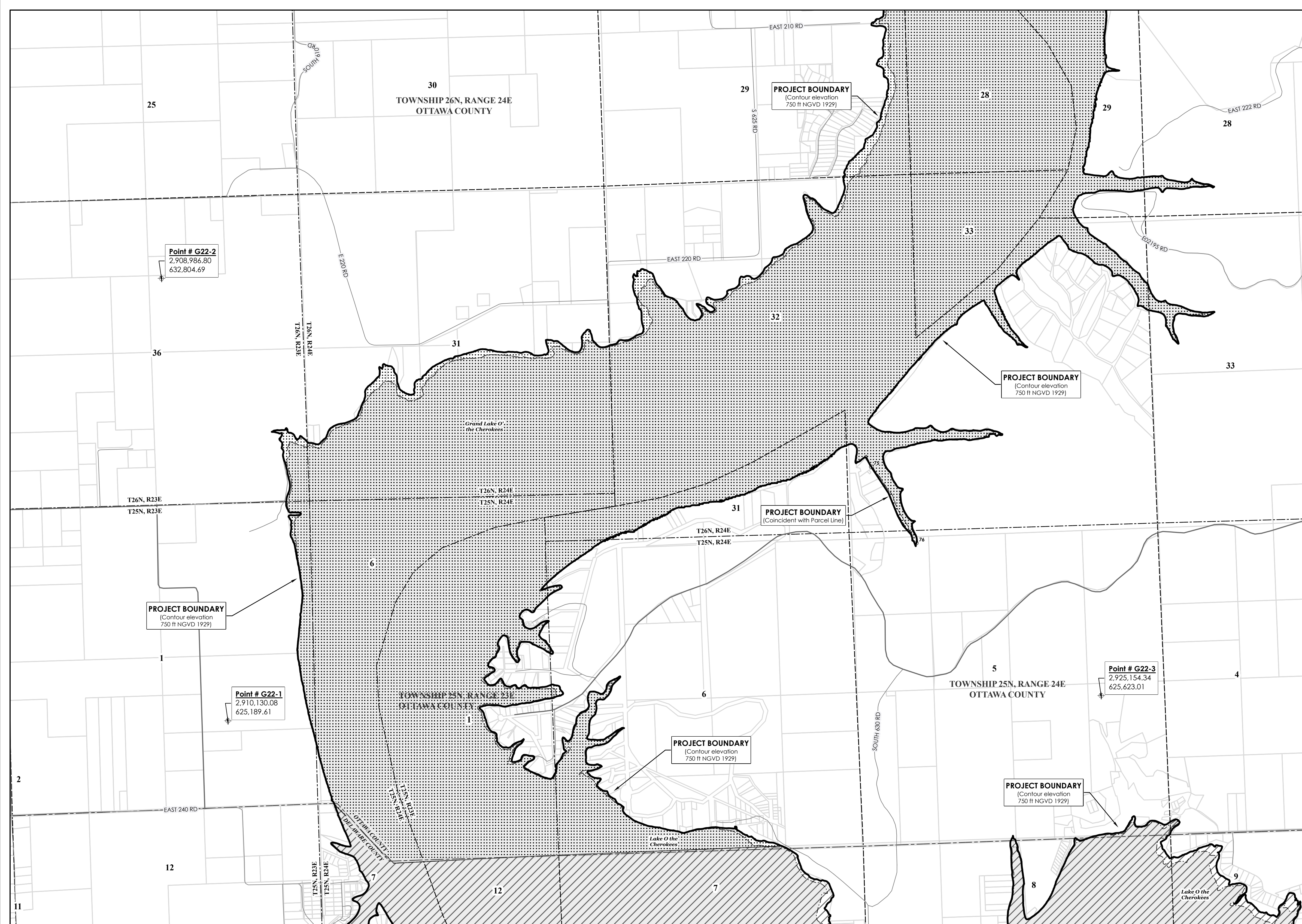
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MAP NOTES

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Legend

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900 450 0 900 1,800 2,700 3,600 Feet

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EXHIBIT G - 22

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

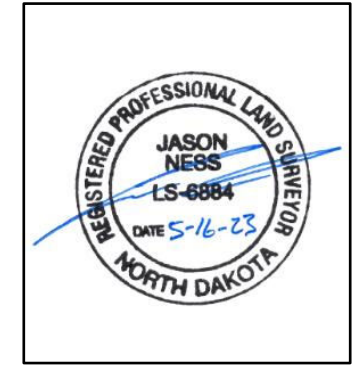
PROJECT BOUNDARY MAP

DATE: MAY 2023

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5/16/2023

JASON NESS DATE

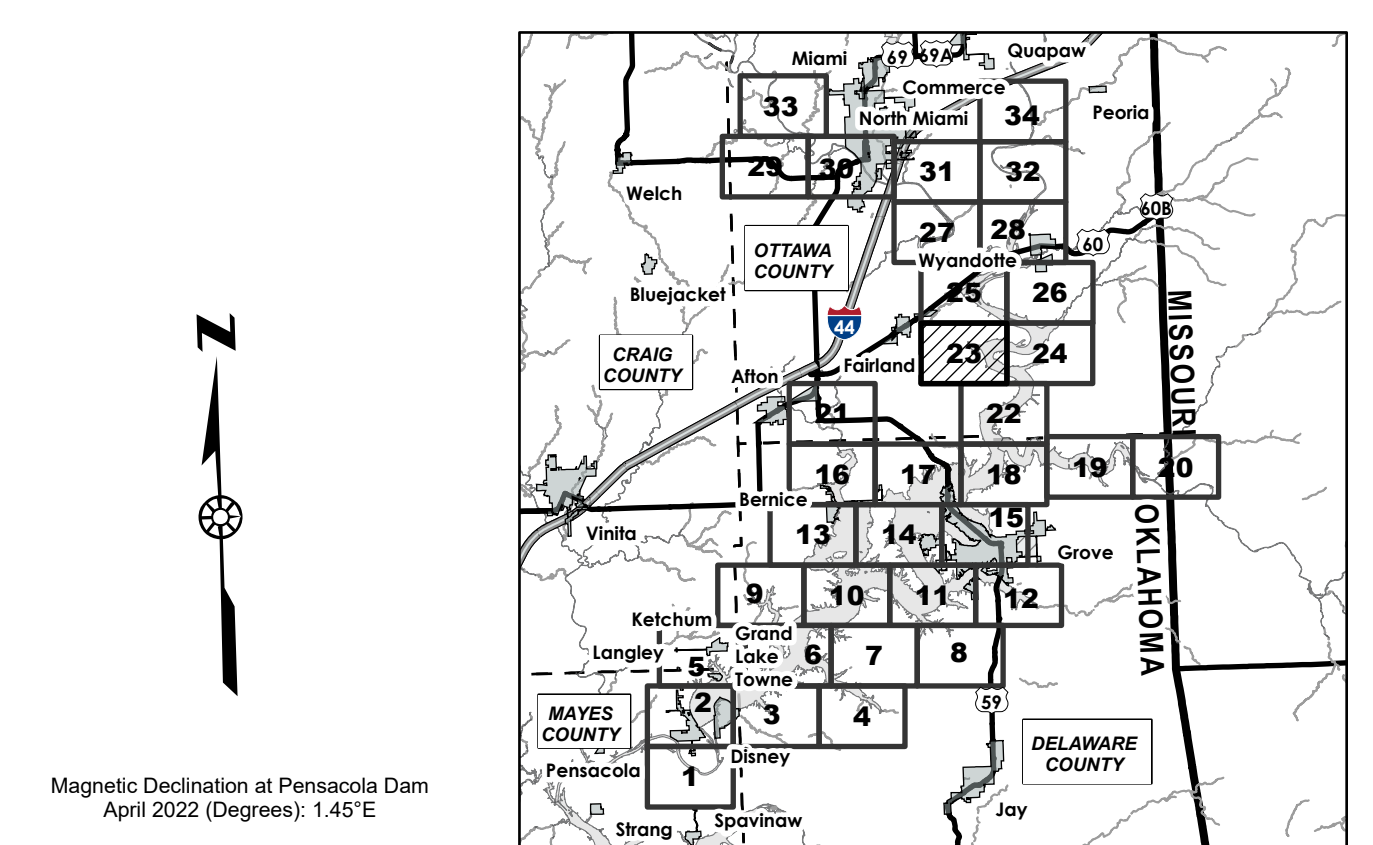
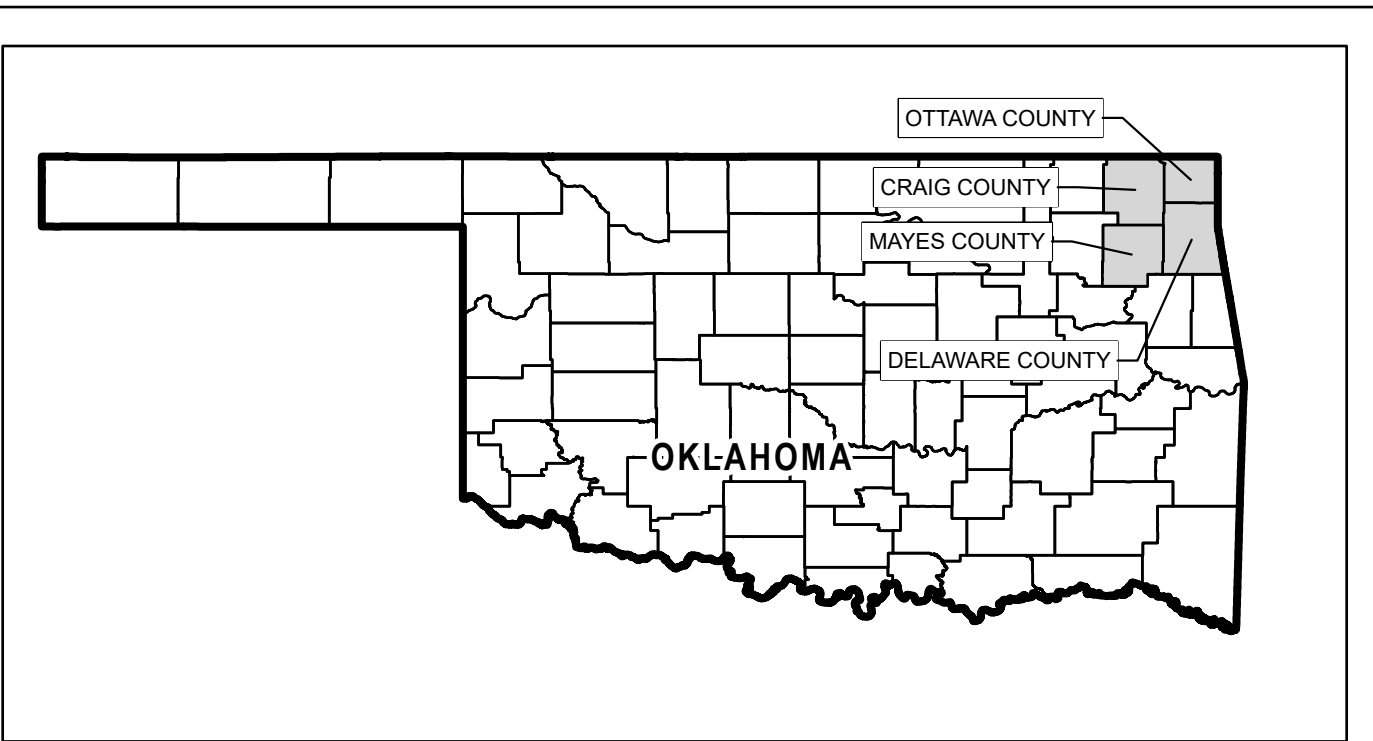
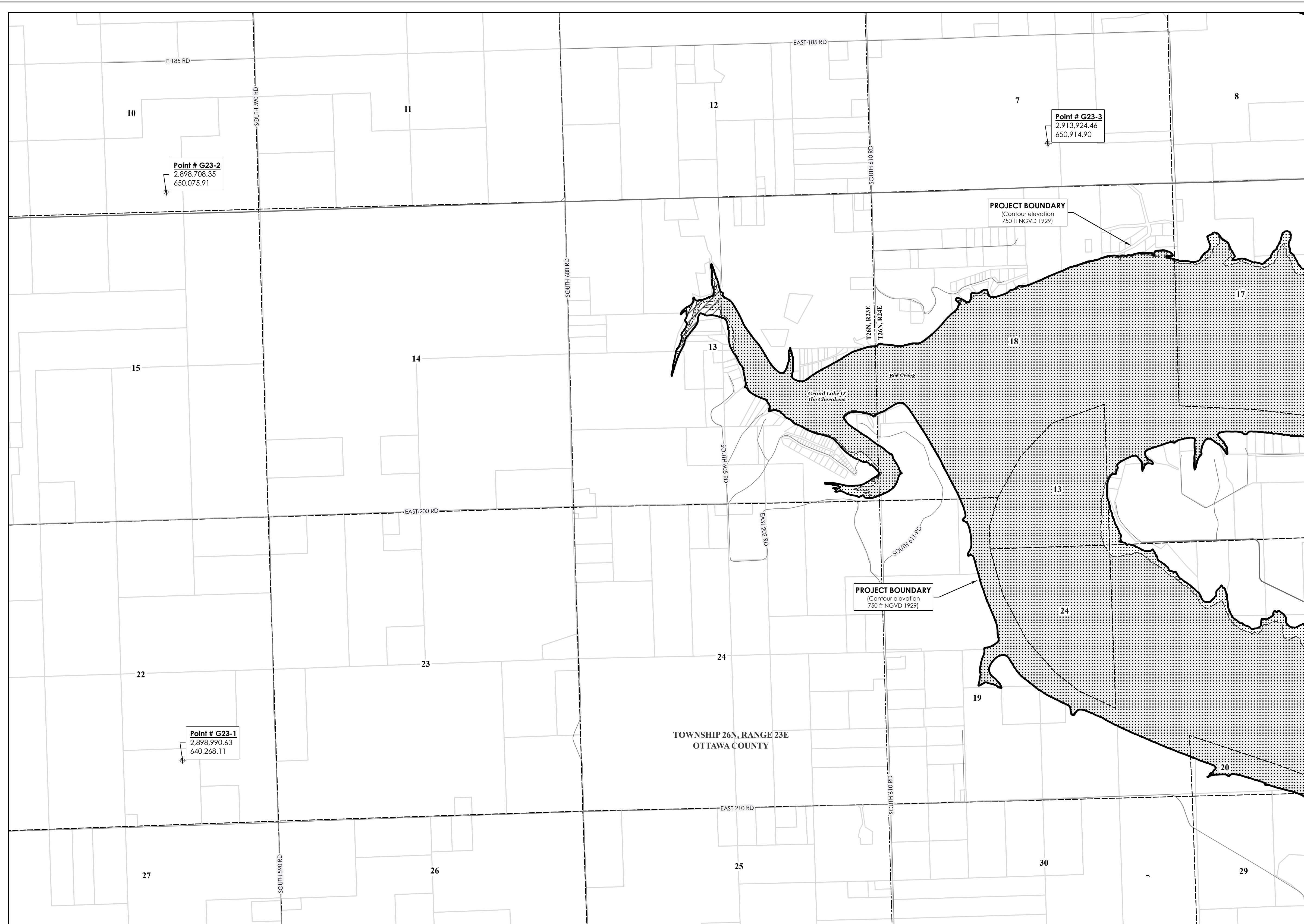


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EXHIBIT G - 23
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

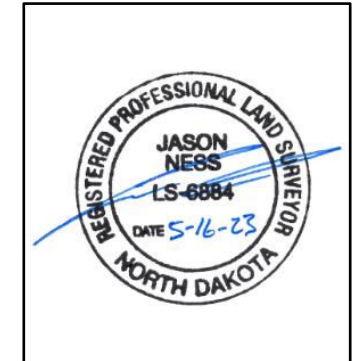
PENSACOLA DAM HYDROELECTRIC PROJECT
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NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
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DATE: MAY 2023

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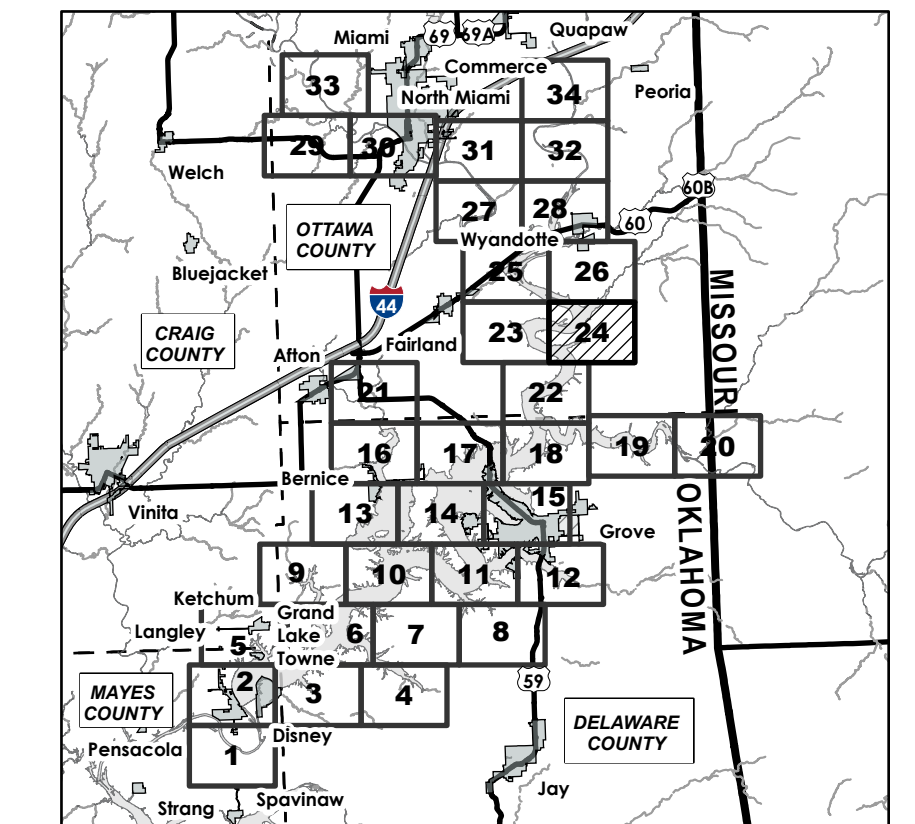
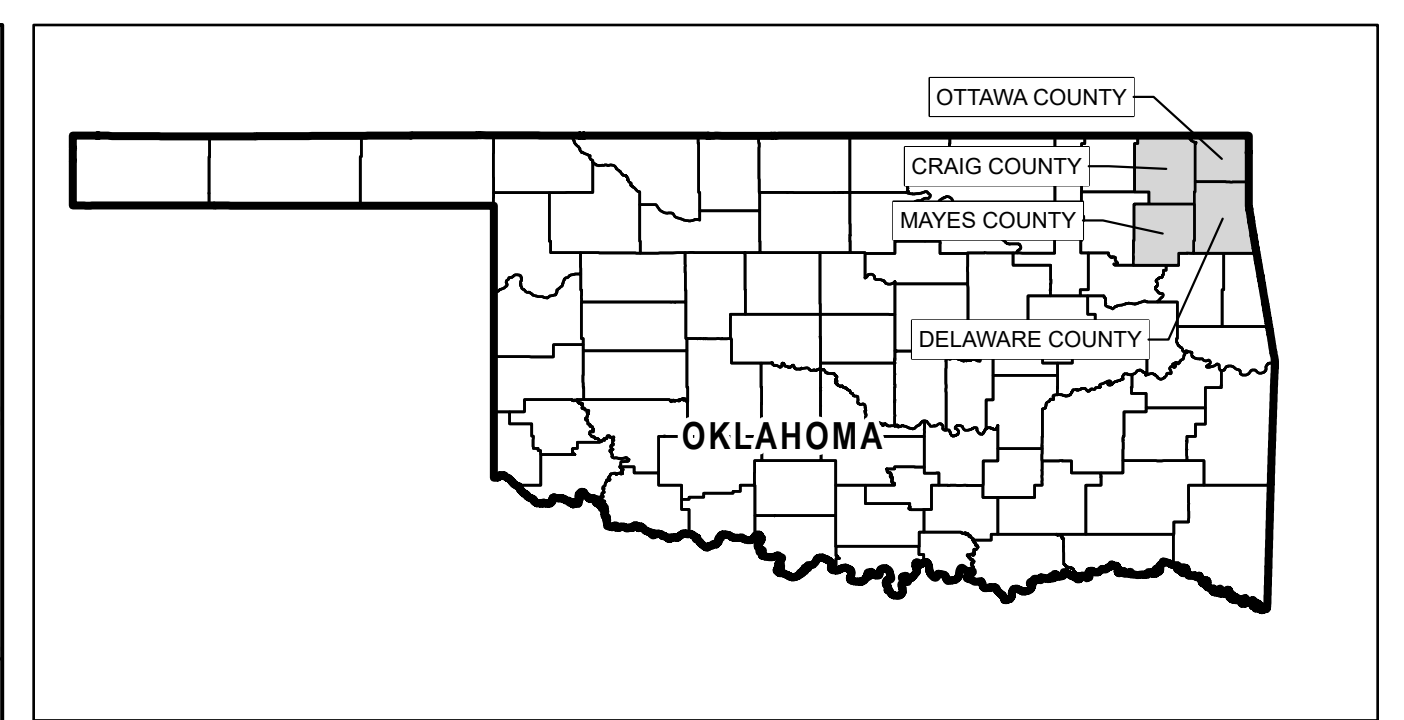


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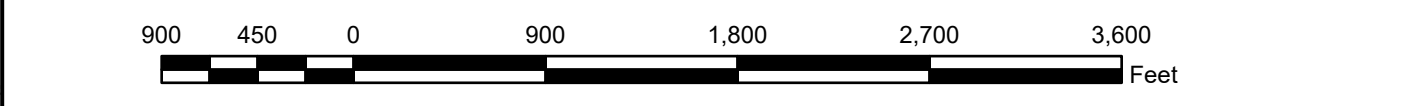
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Magnetic Declination at Pensacola Dam
April 2022 (Degrees): 1.4°E

Legend

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EXHIBIT G - 24

GRAND RIVER DAM AUTHORITY
LANGLEY, OKLAHOMA

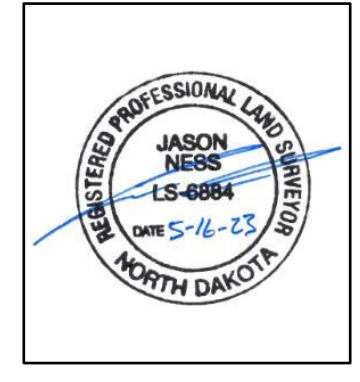
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NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

DATE: MAY 2023

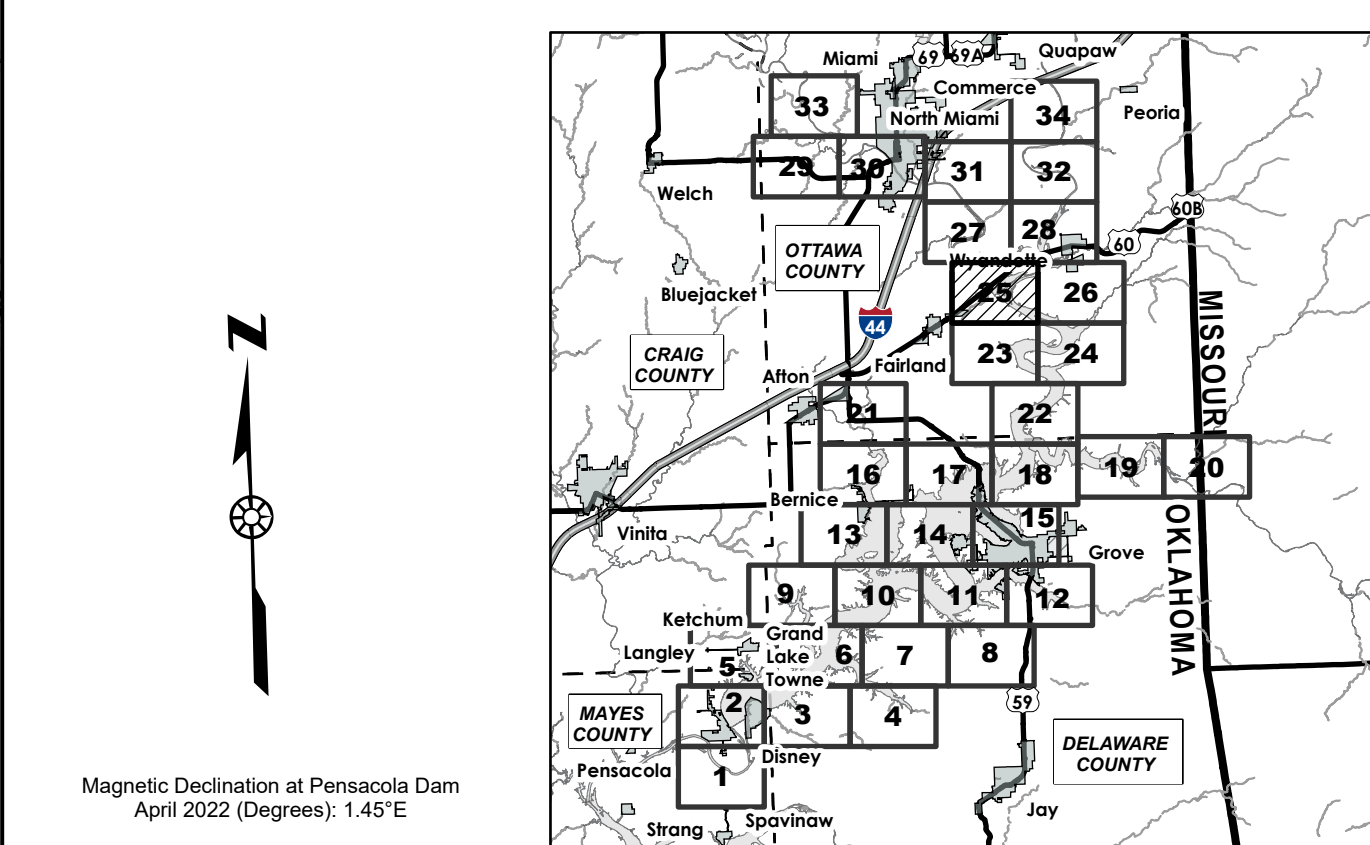
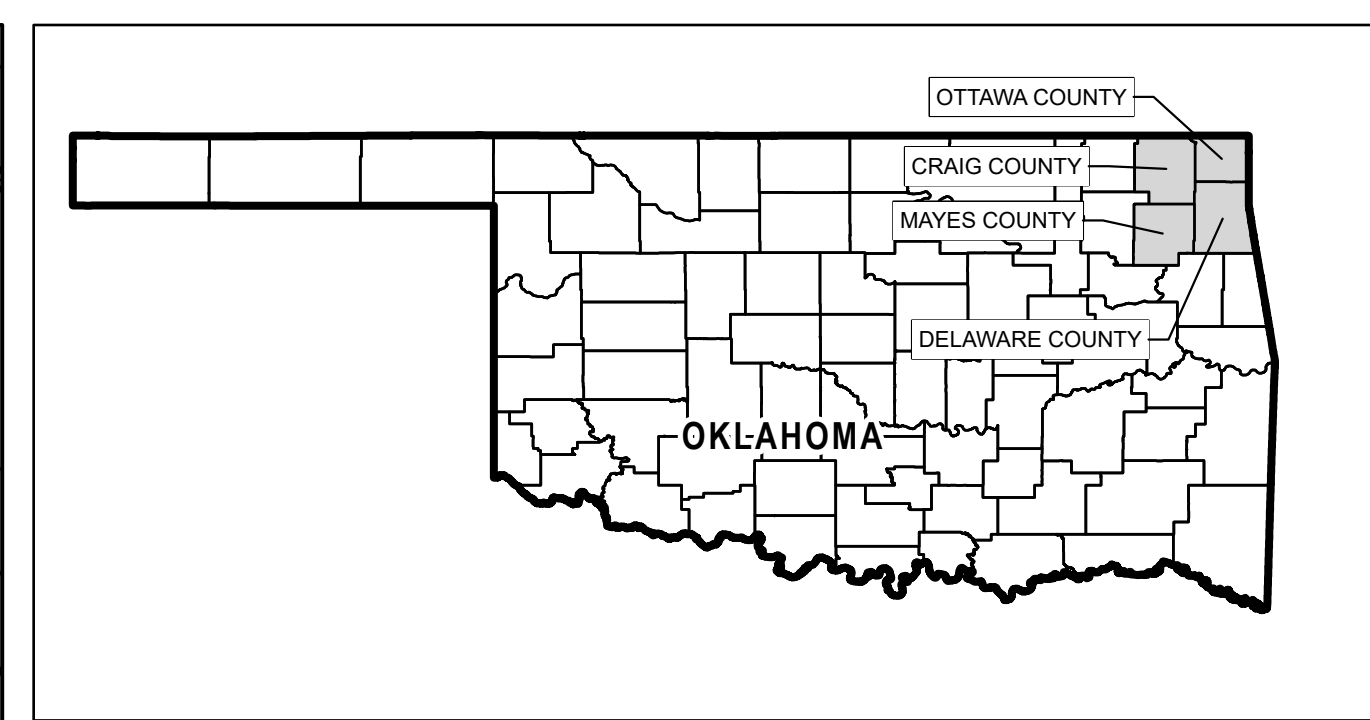
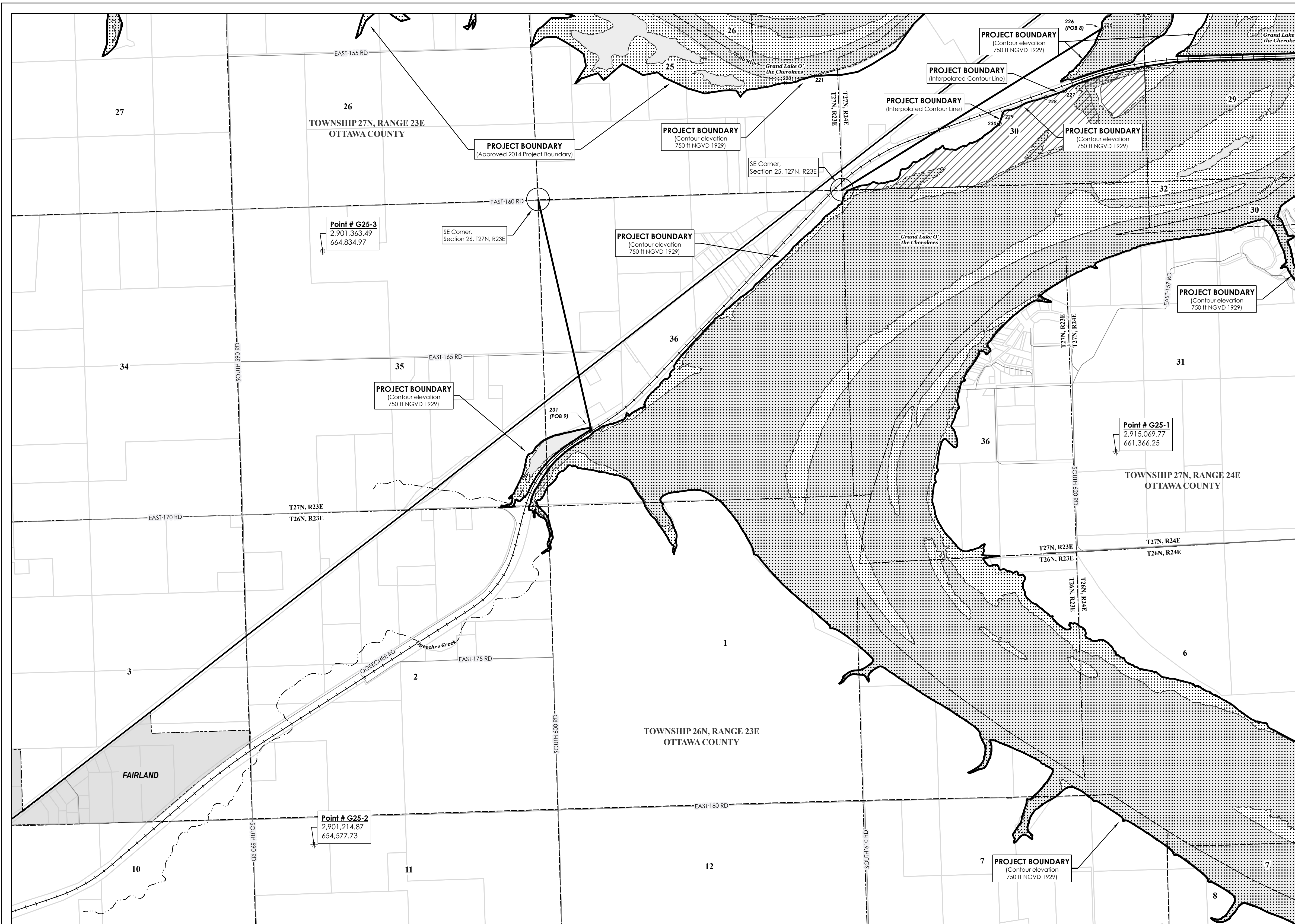
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5/16/2023
DATE



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900 450 0 900 1,800 2,700 3,600 Feet

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EXHIBIT G - 25

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

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FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

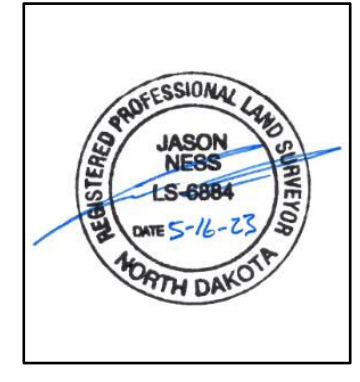
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JASON NESS

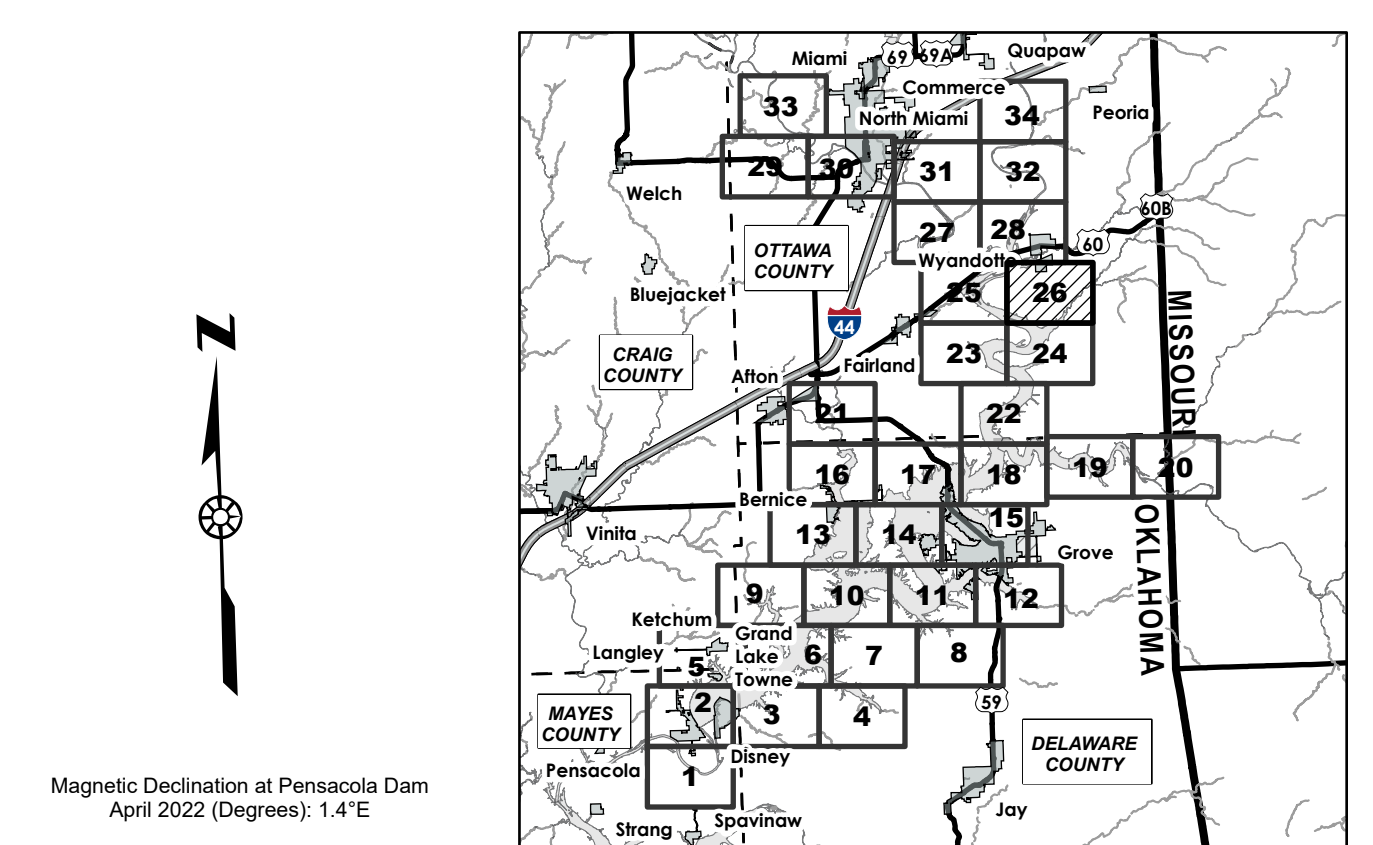
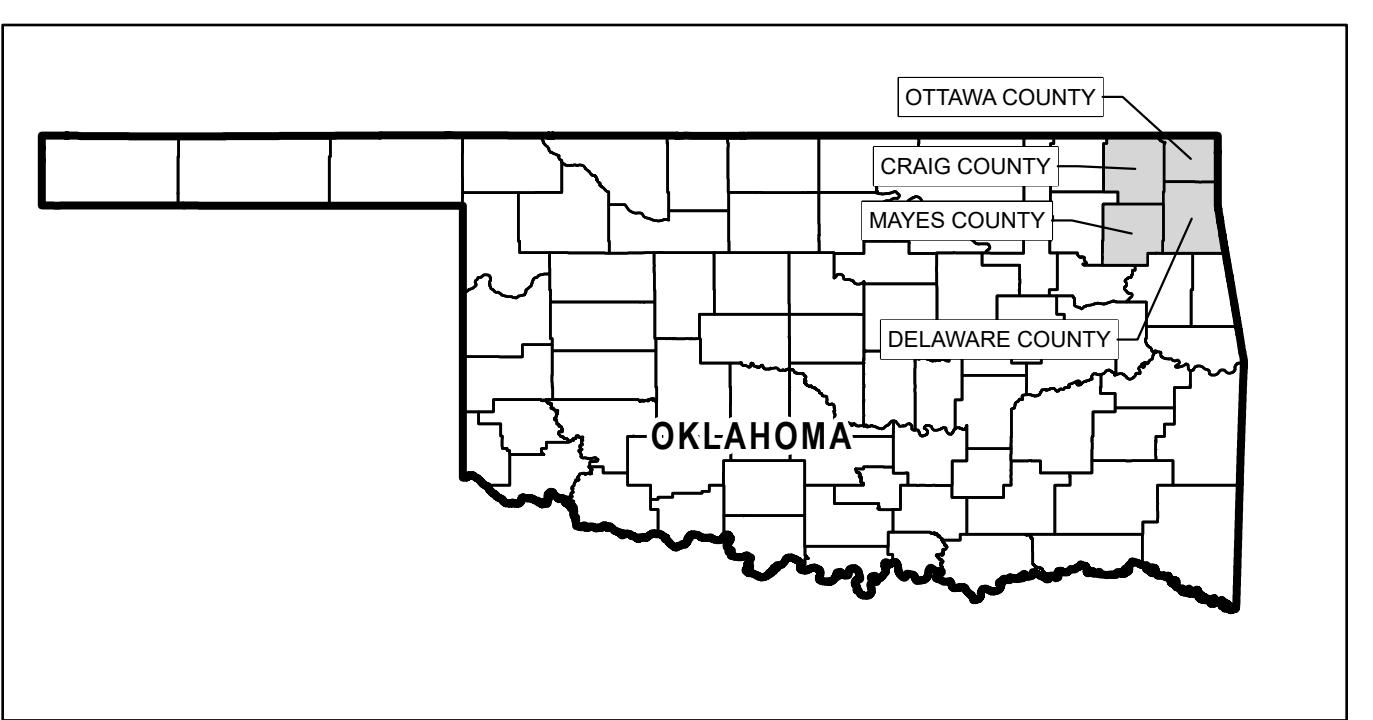
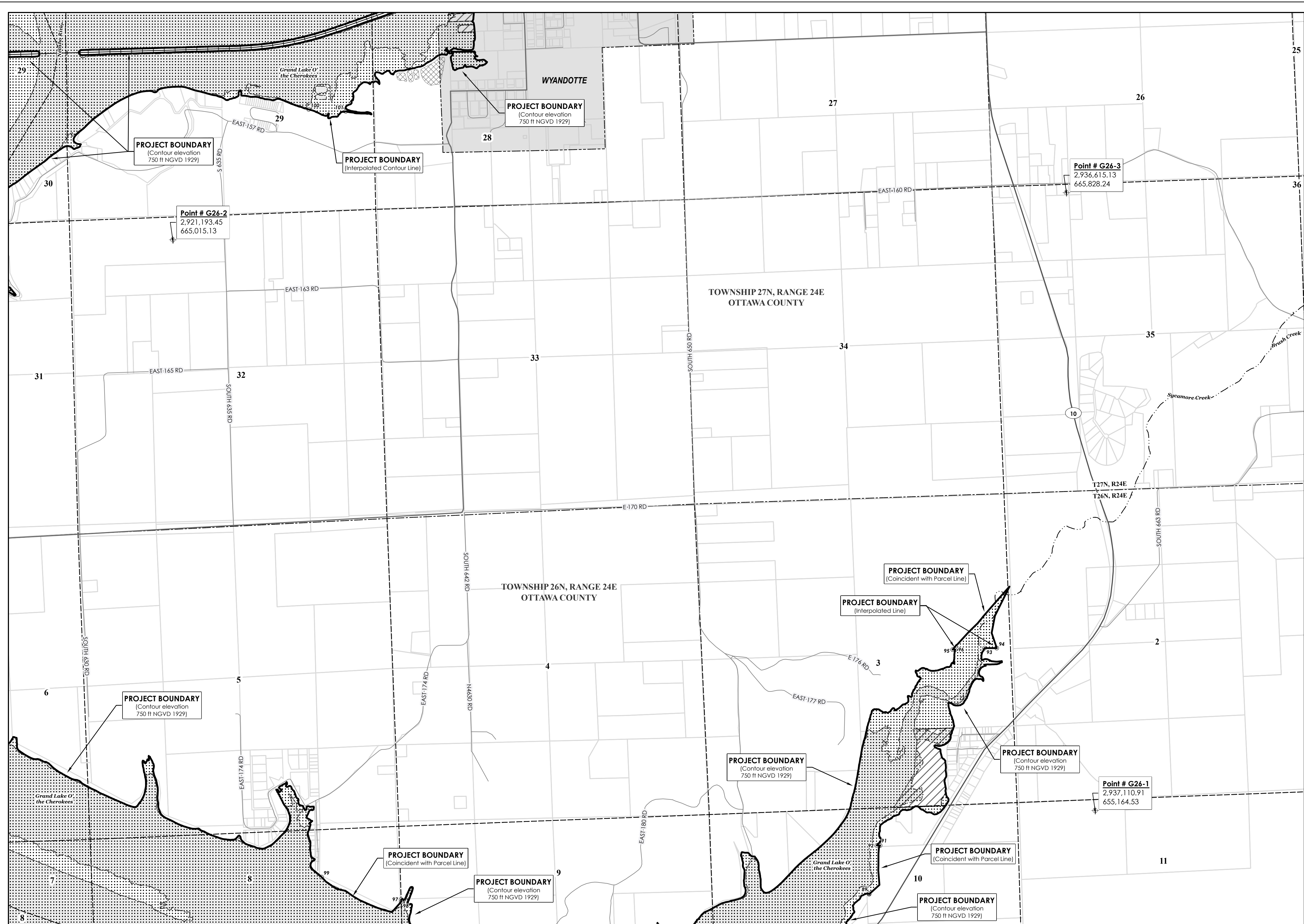


MAP NOTES

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PROJECT BOUNDARY DEFINITION

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- Portions of the anticipated project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.



Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

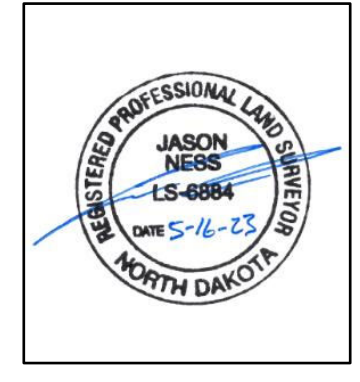
900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 26
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP
 DATE: MAY 2023

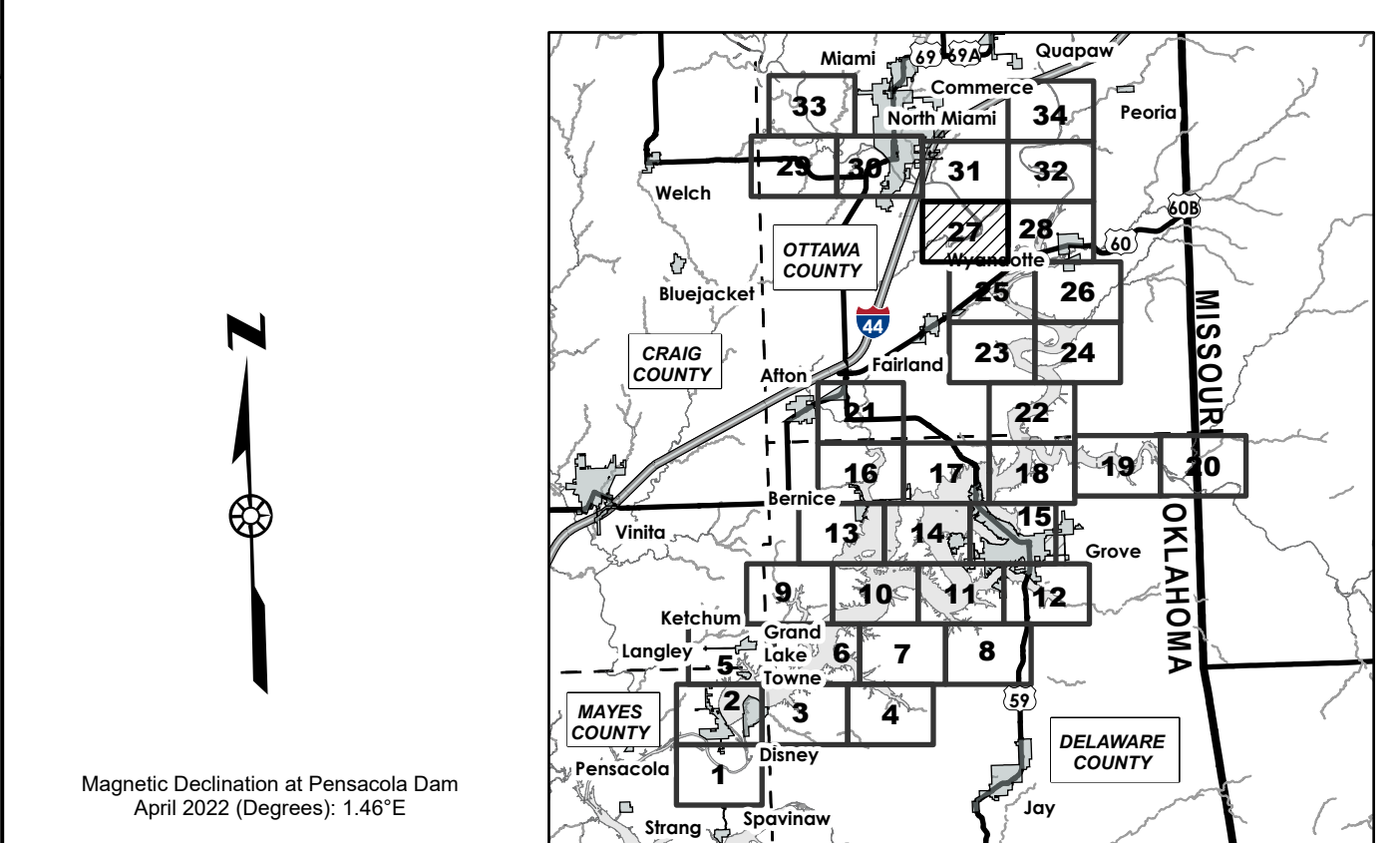
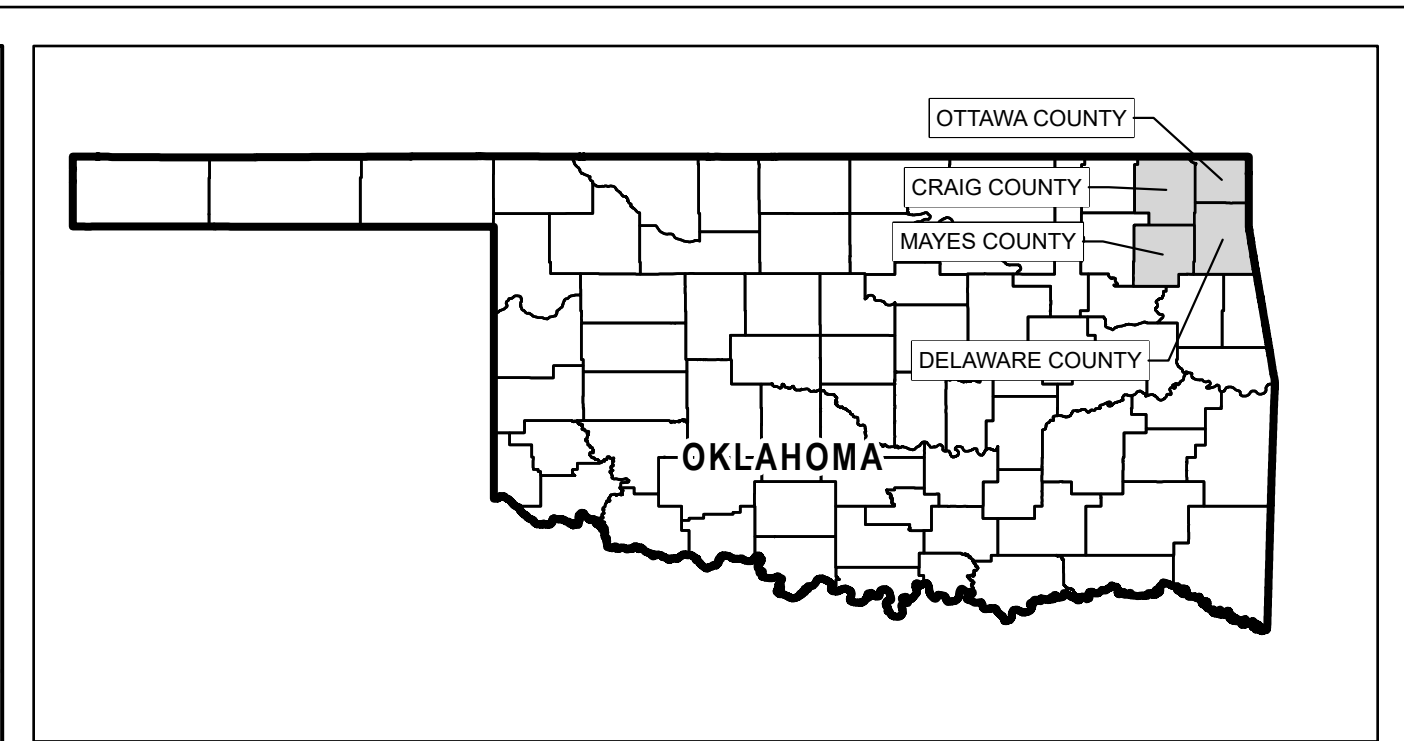
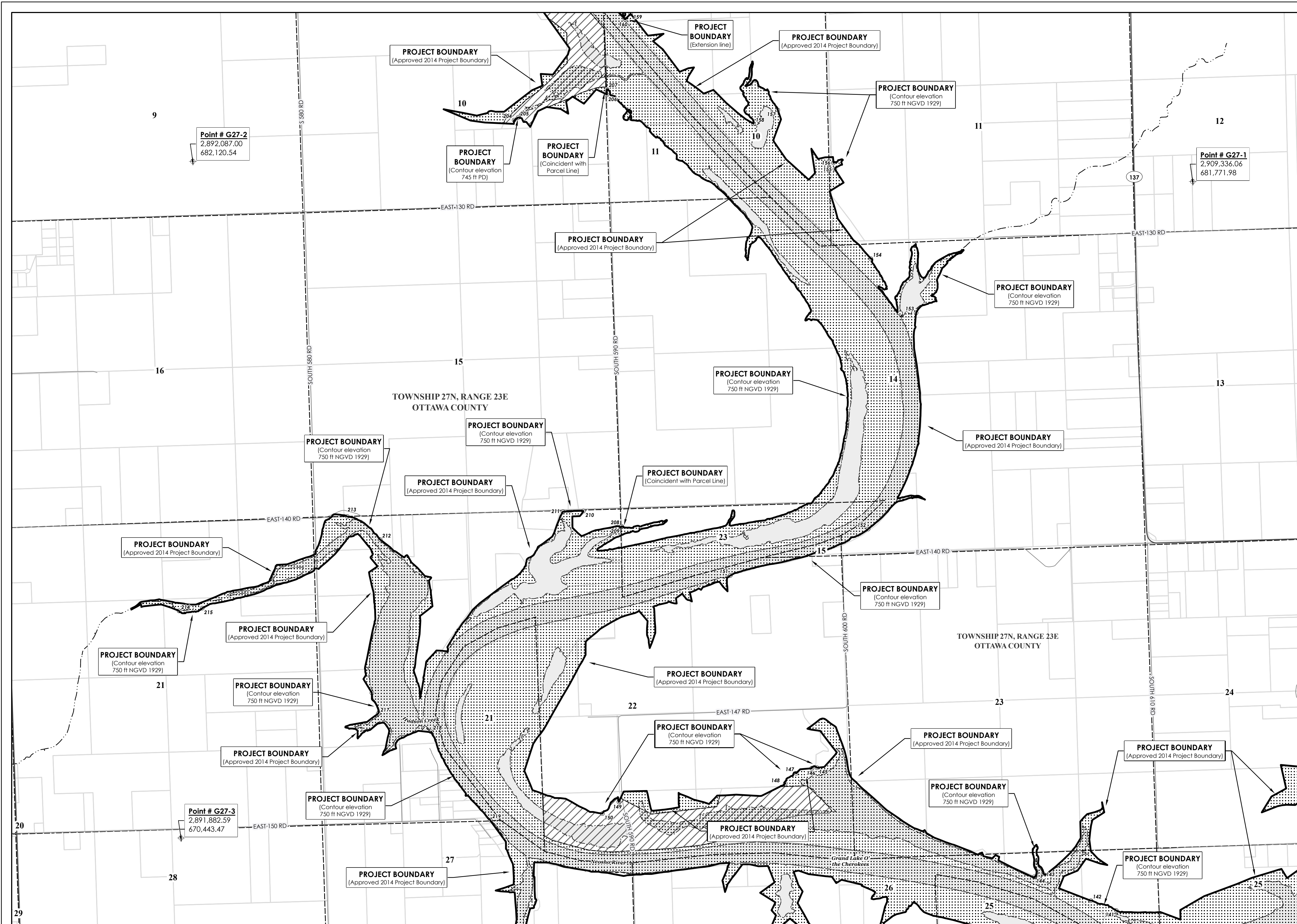
SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
 DATE



MAP NOTES
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 3. When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.

PROJECT BOUNDARY DEFINITION
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Legend

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Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
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Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 27

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

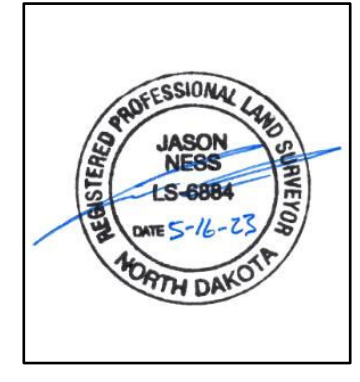
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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5/16/2023
DATE

JASON NESS

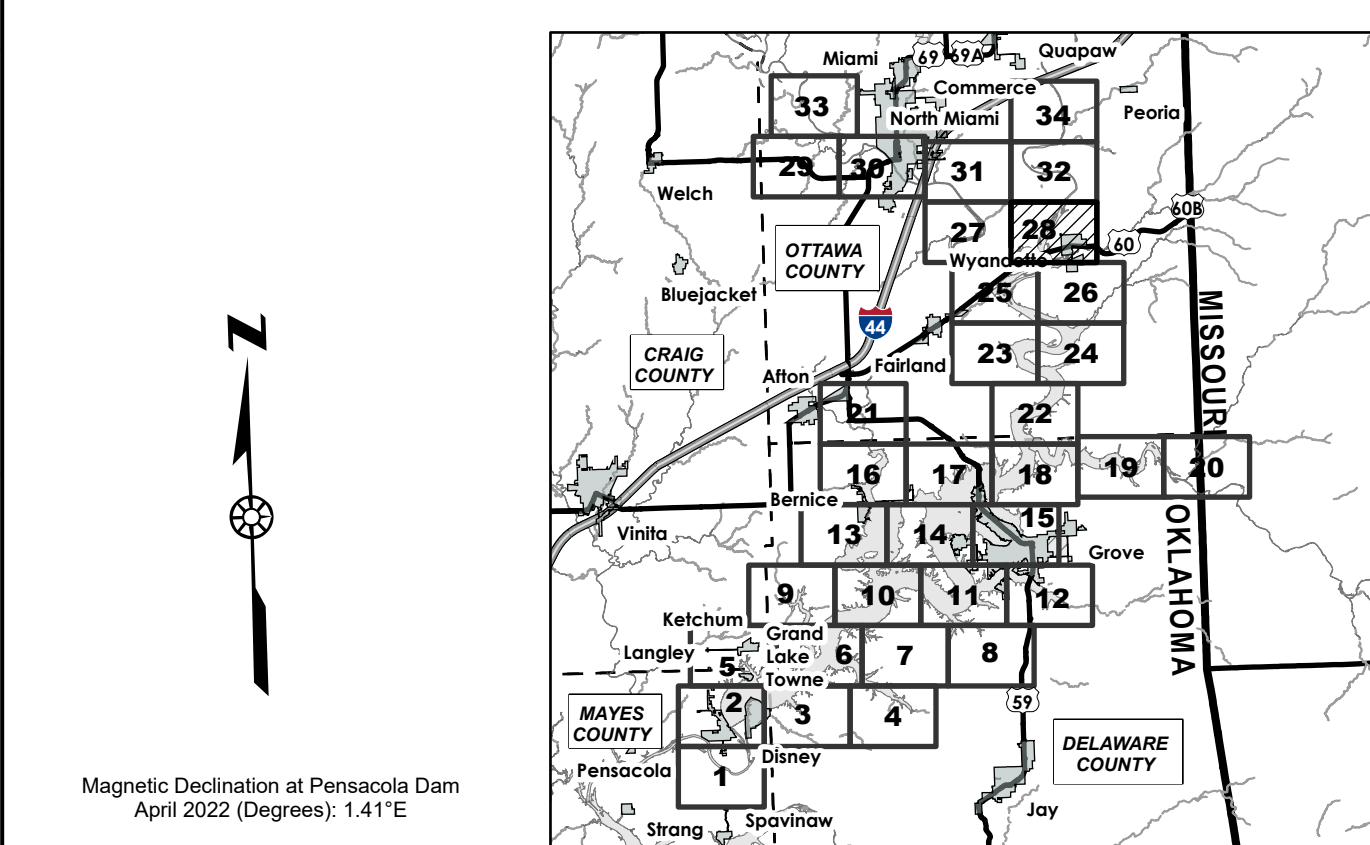
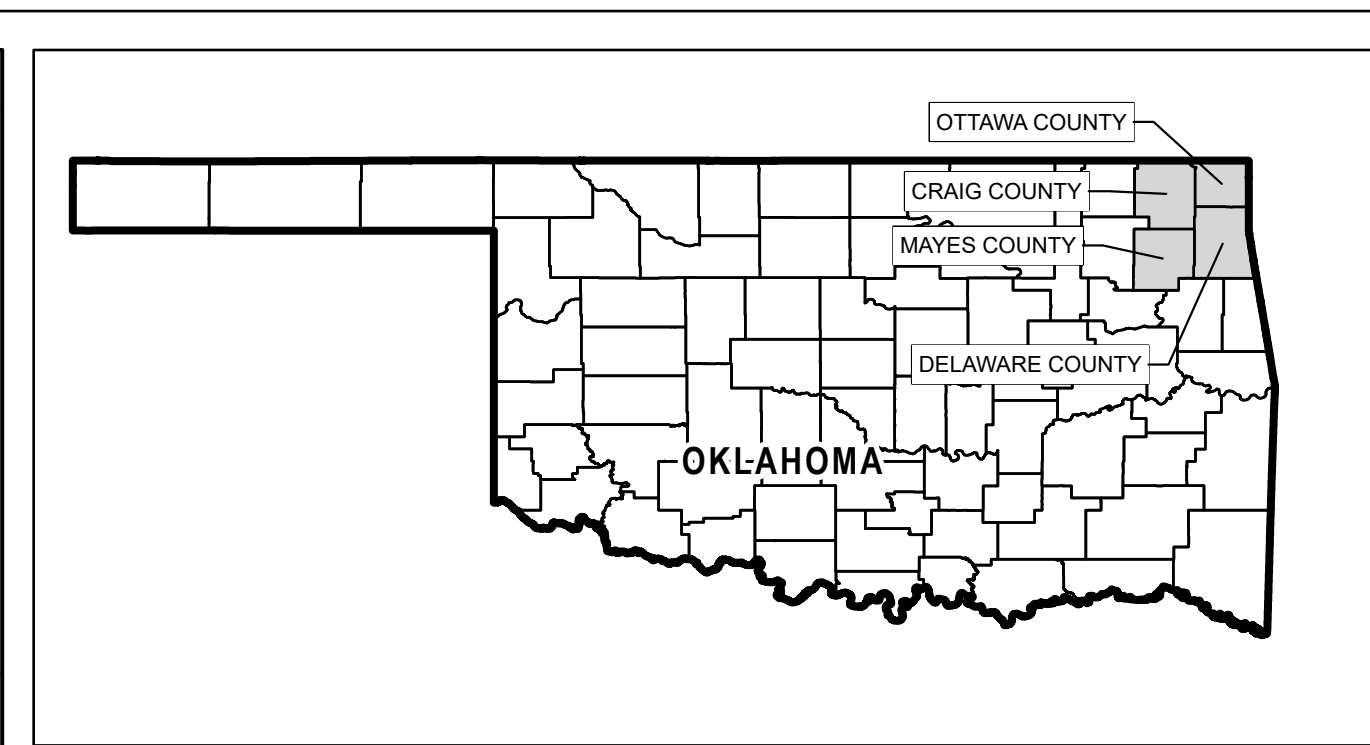


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Legend

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 28

GRAND RIVER DAM AUTHORITY LANGLEY, OKLAHOMA

PENSACOLA DAM HYDROELECTRIC PROJECT

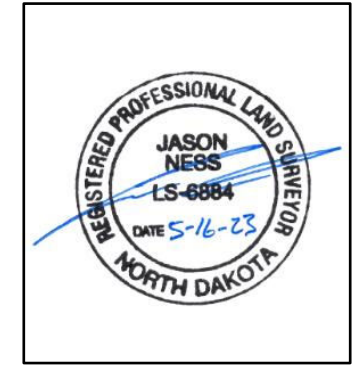
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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DATE



MAP NOTES

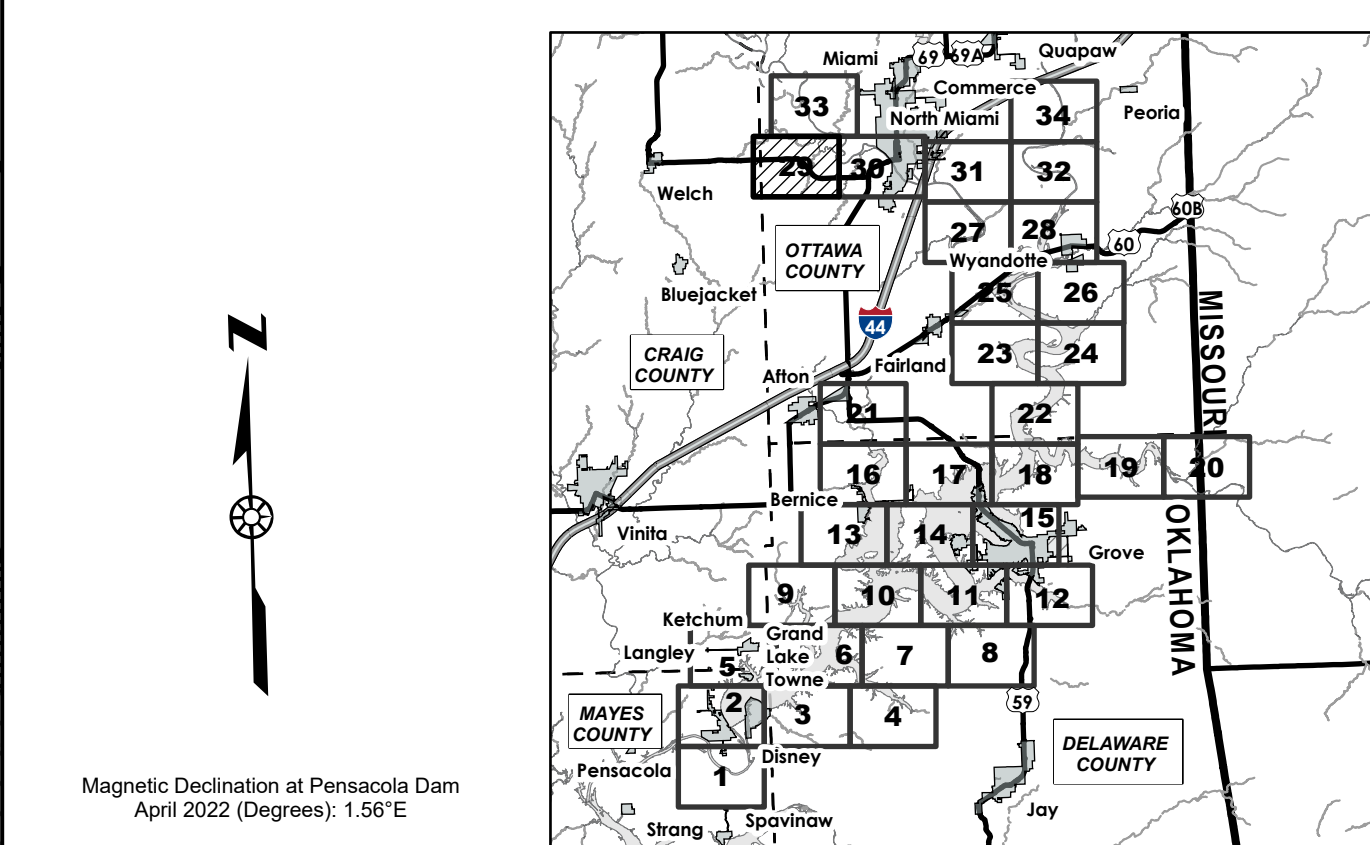
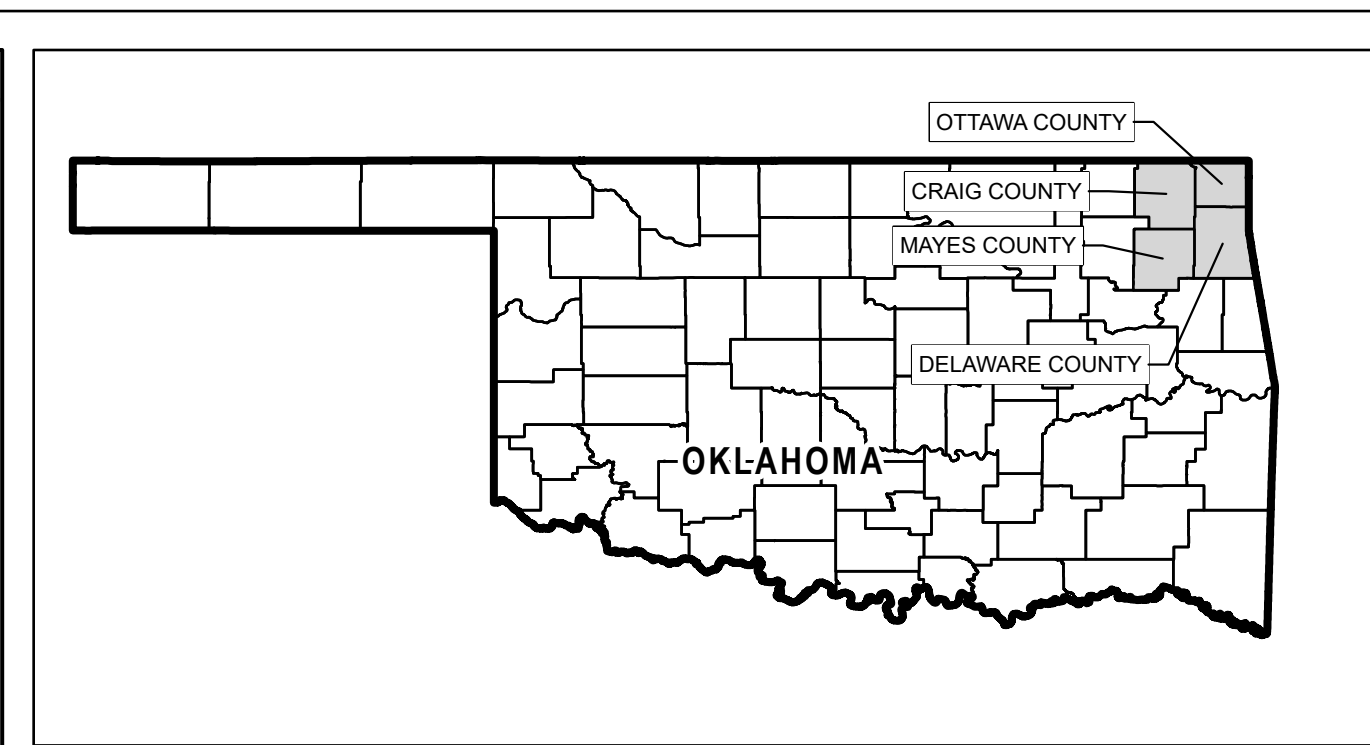
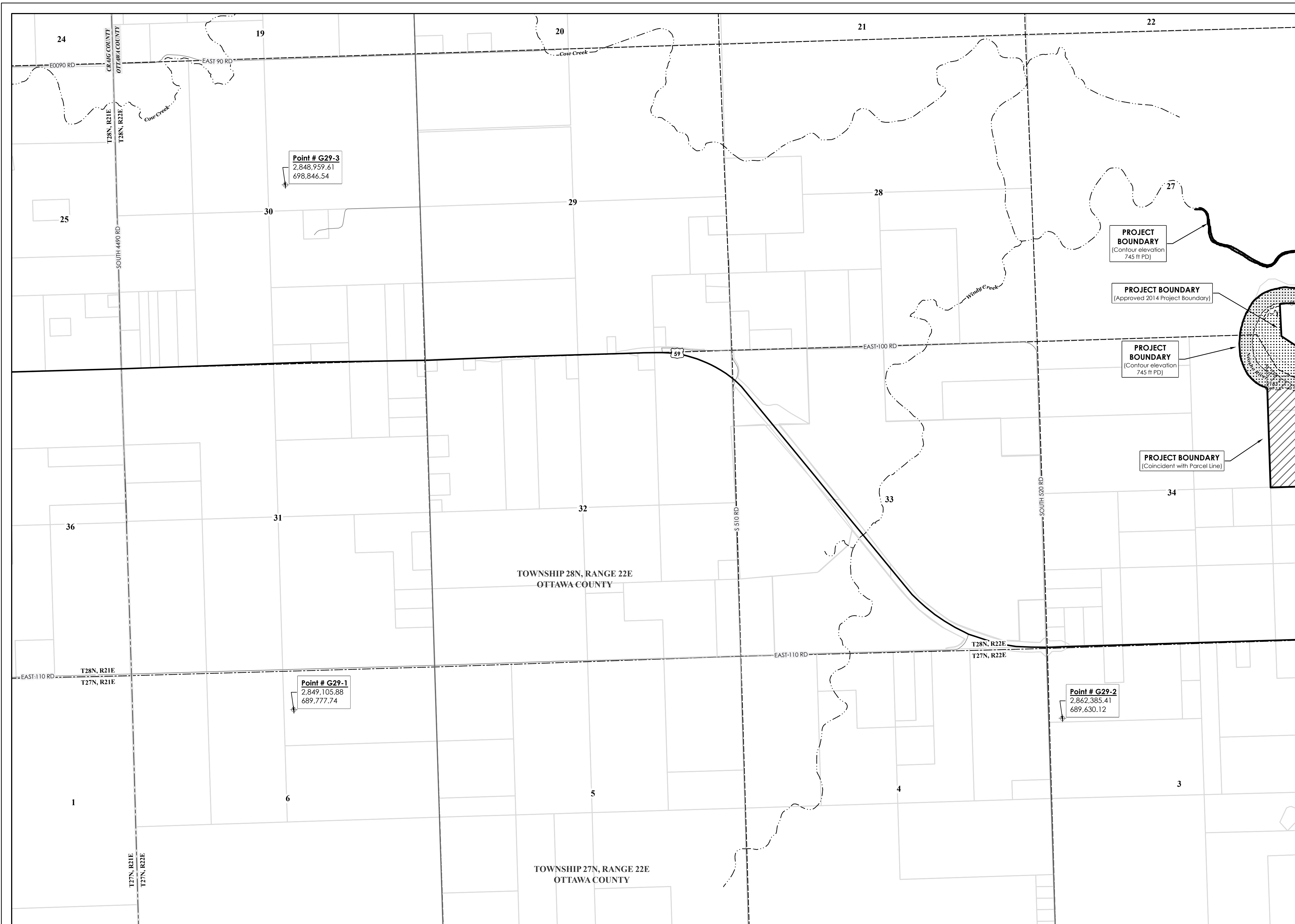
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Legend

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Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

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EXHIBIT G - 29

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

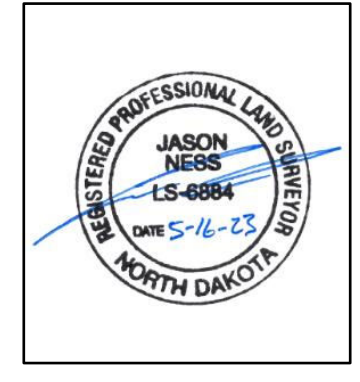
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

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5/16/2023
DATE

JASON NESS

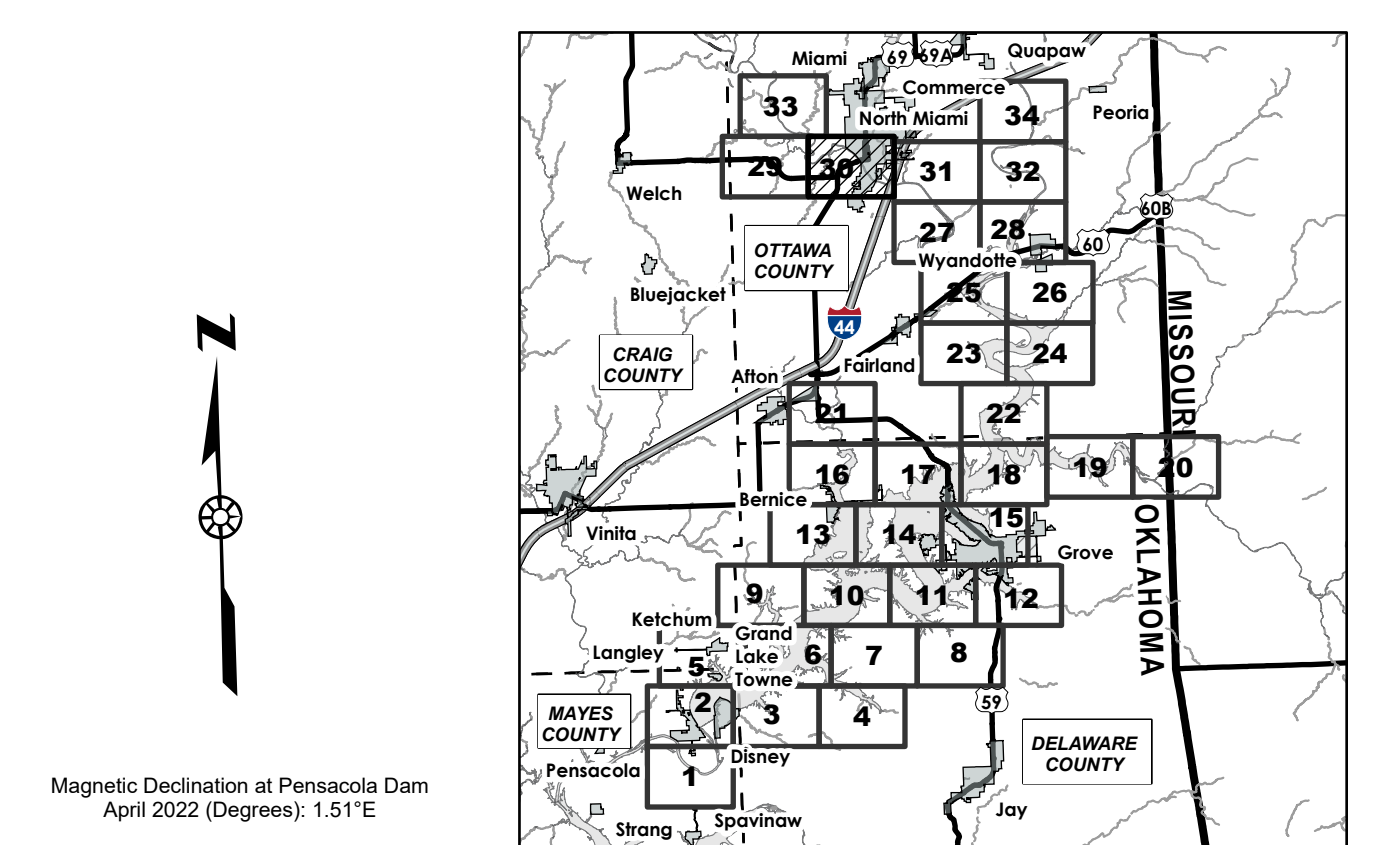
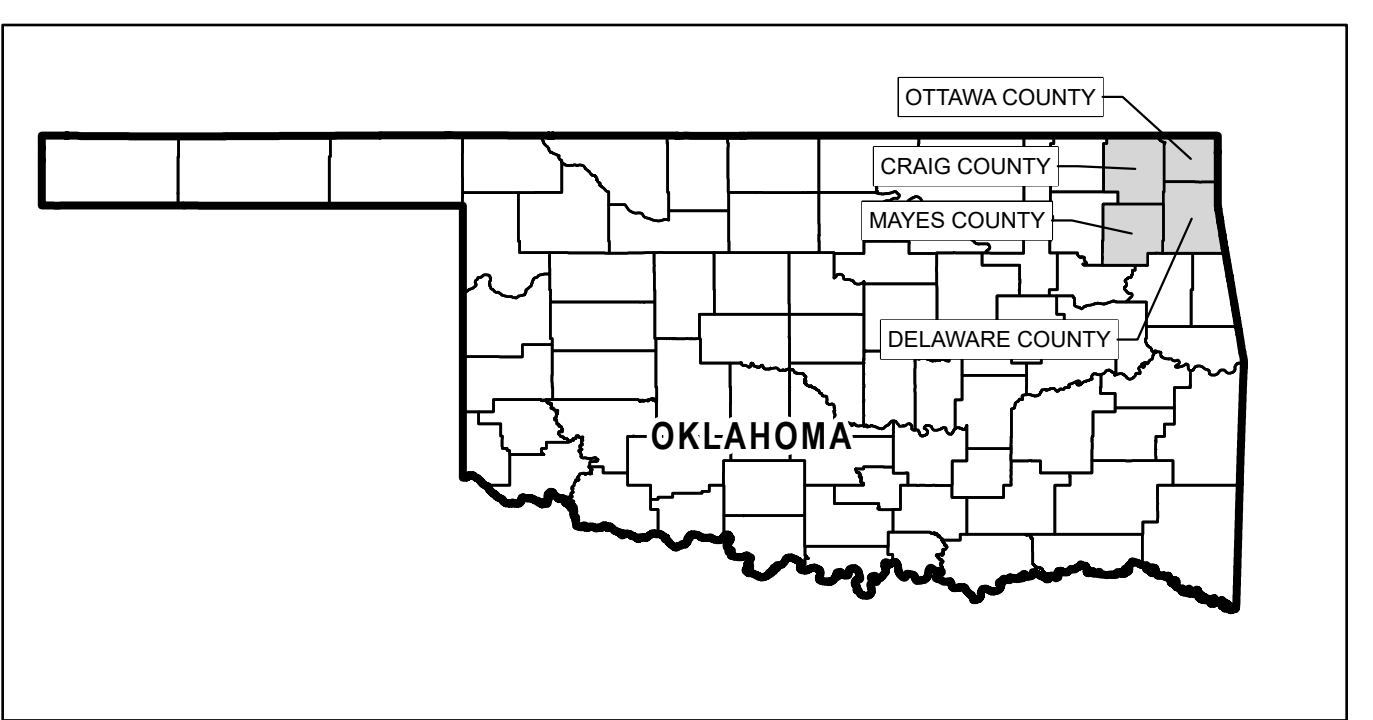
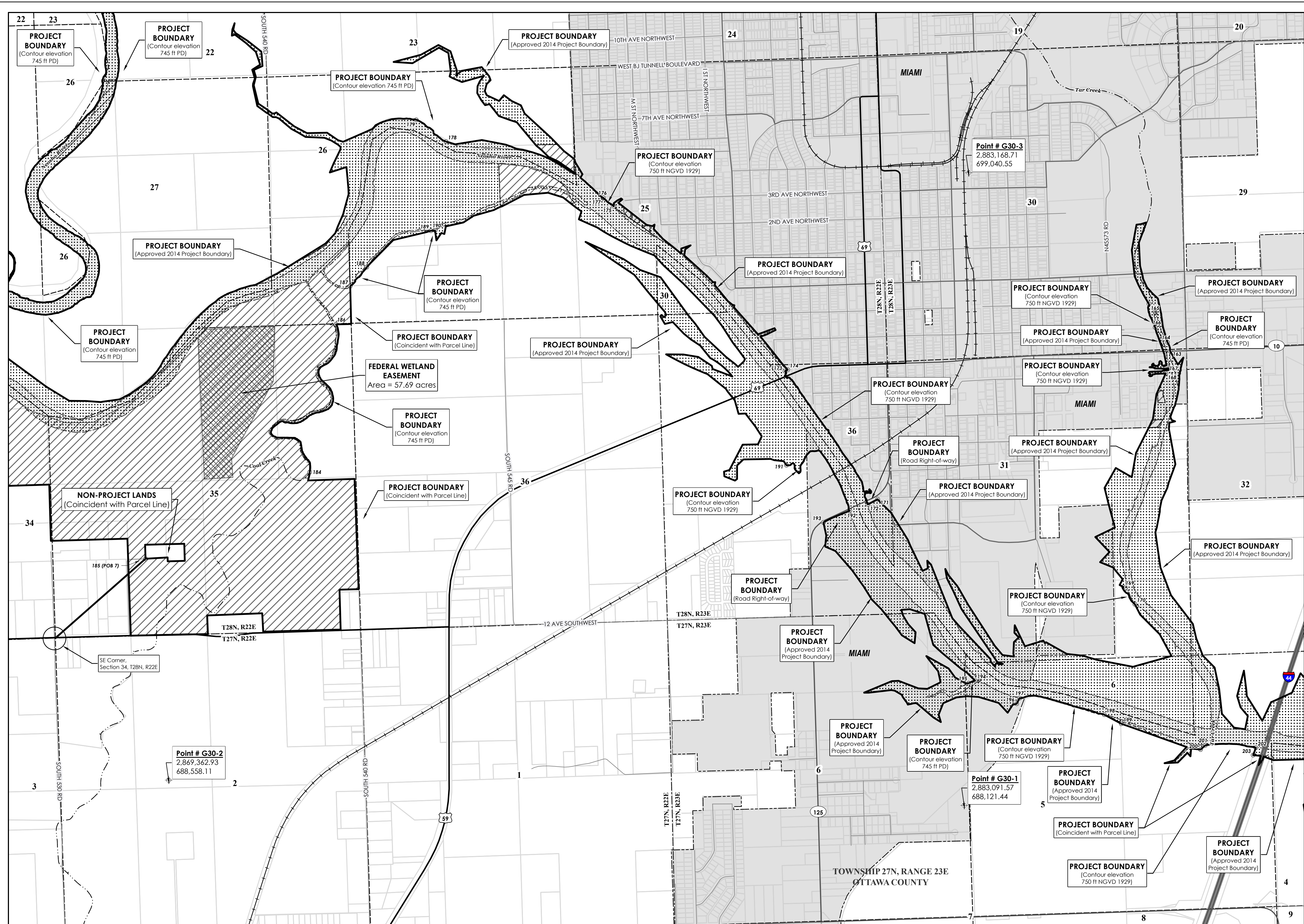


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EXHIBIT G - 30
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

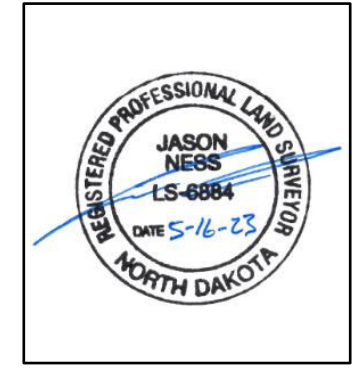
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

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 DATE

JASON NESS

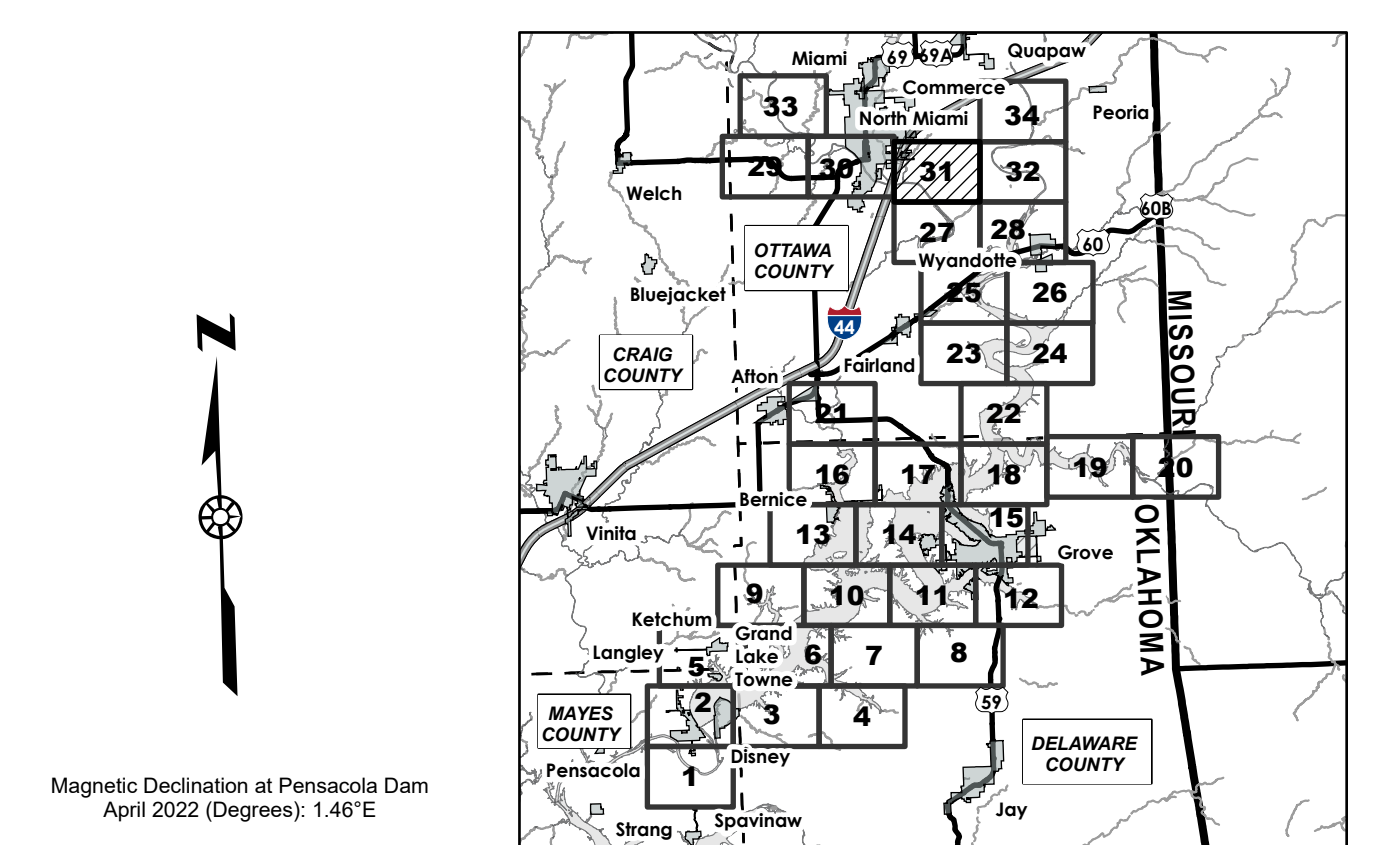
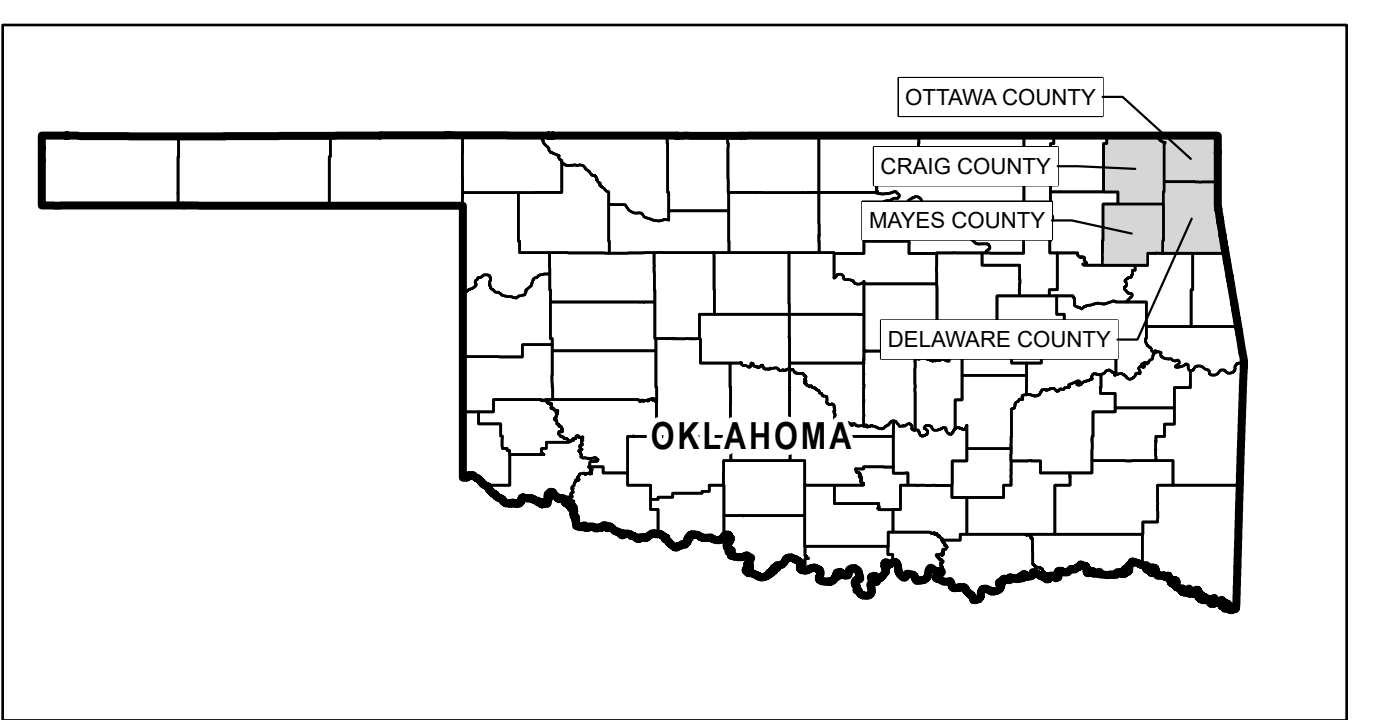


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Project Boundary		Section Line	Local Road
		Municipal Boundary	

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EXHIBIT G - 31

GRAND RIVER DAM AUTHORITY
LANGLEY, OKLAHOMA

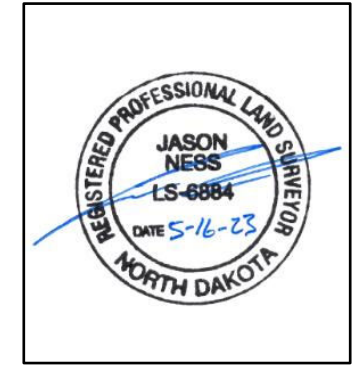
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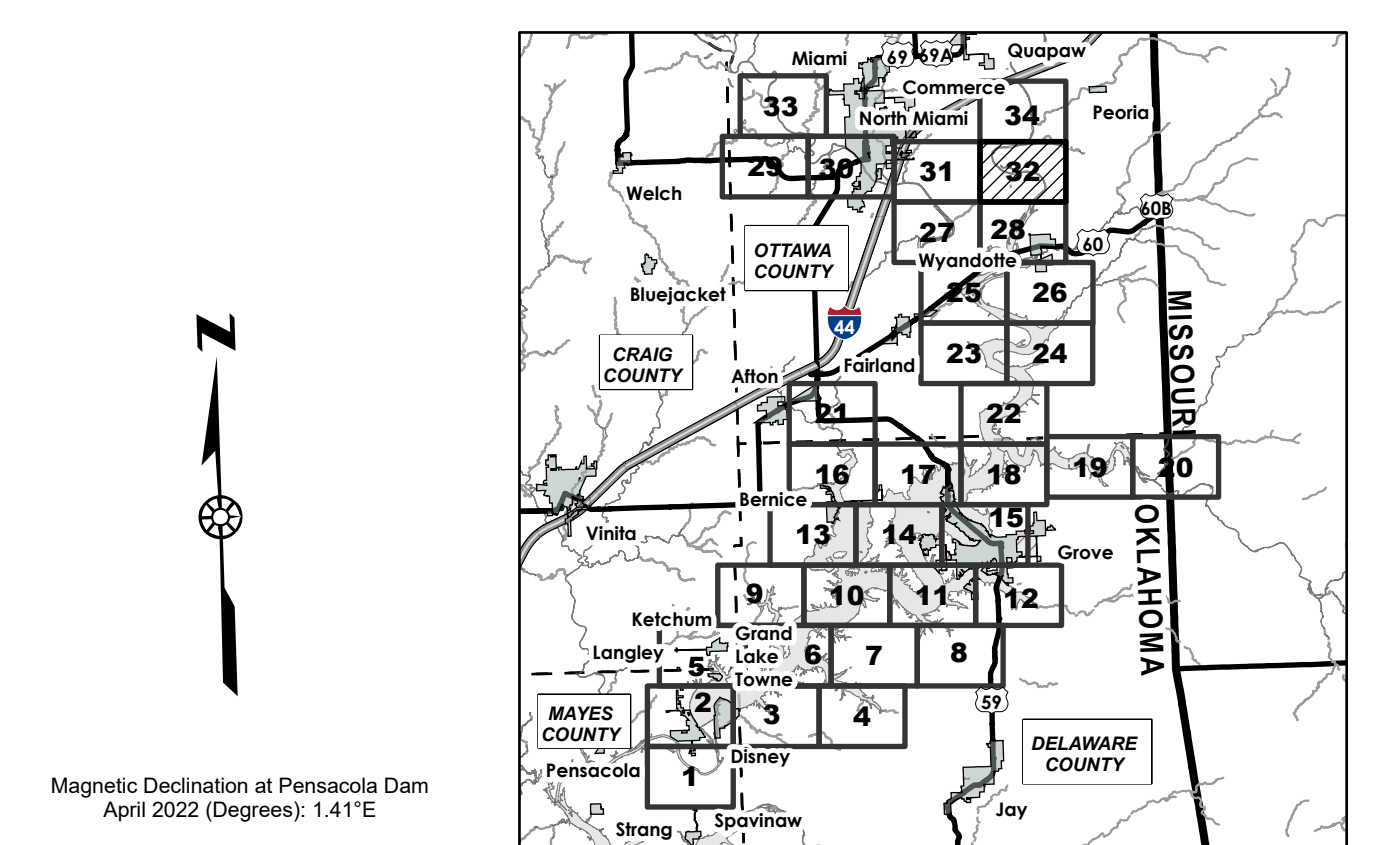
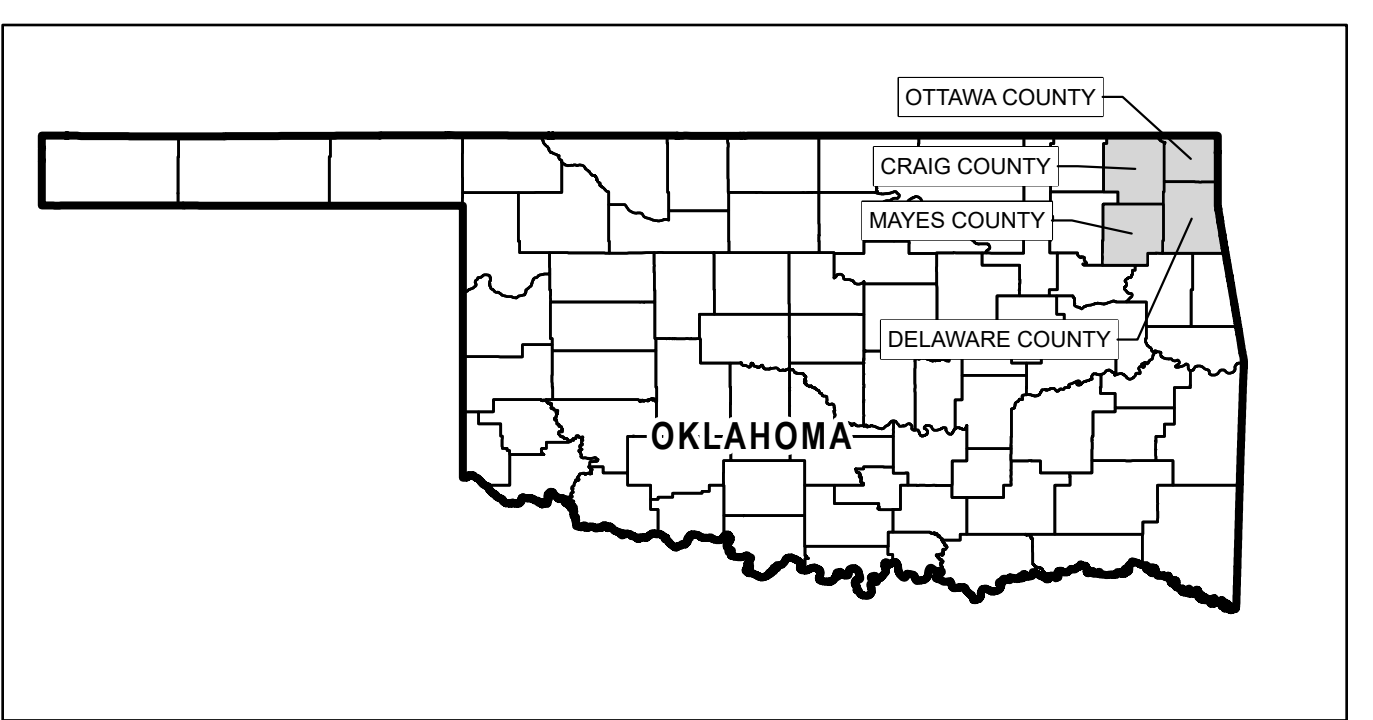
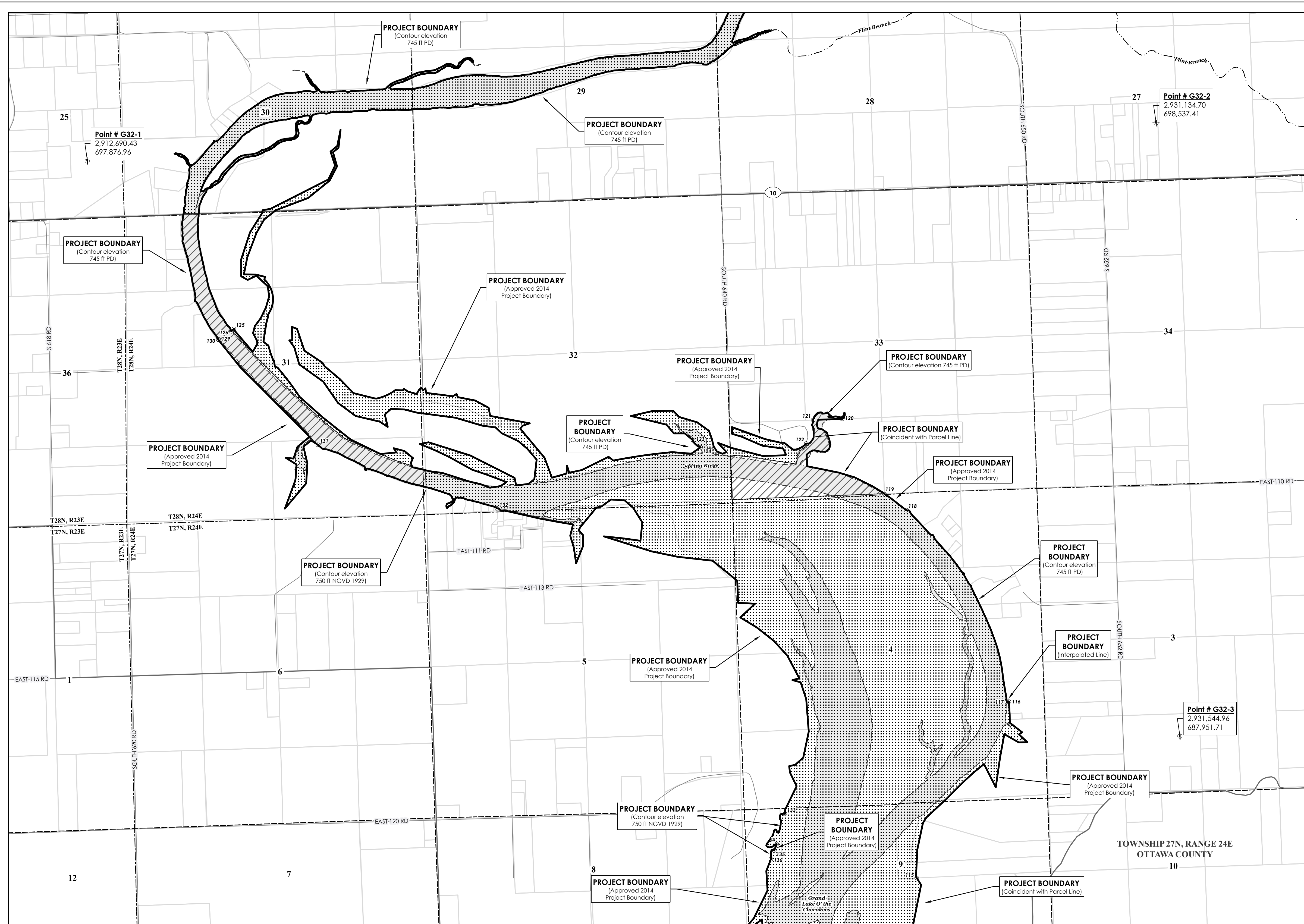


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Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 32

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

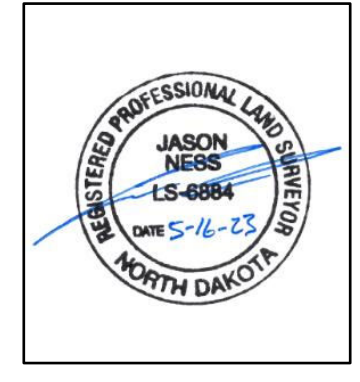
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
 DATE

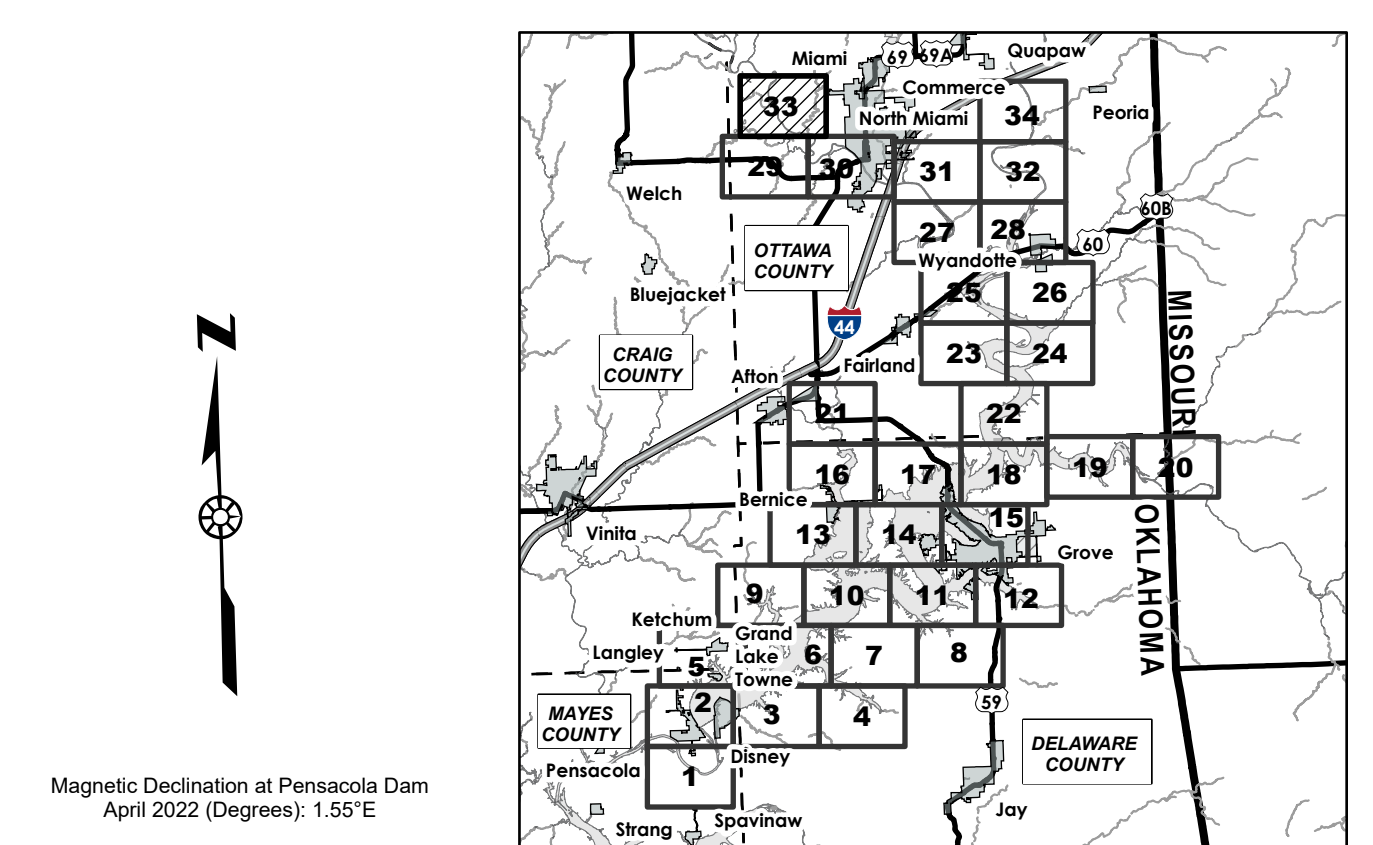
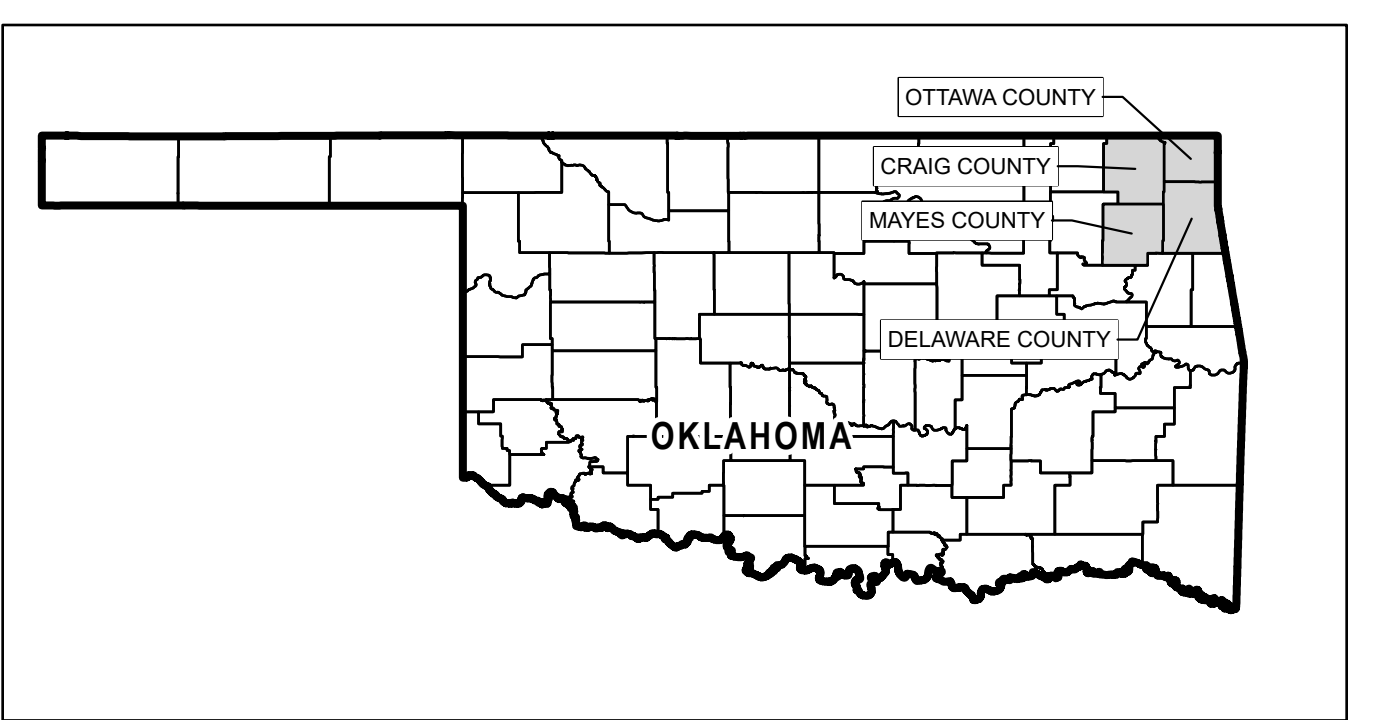
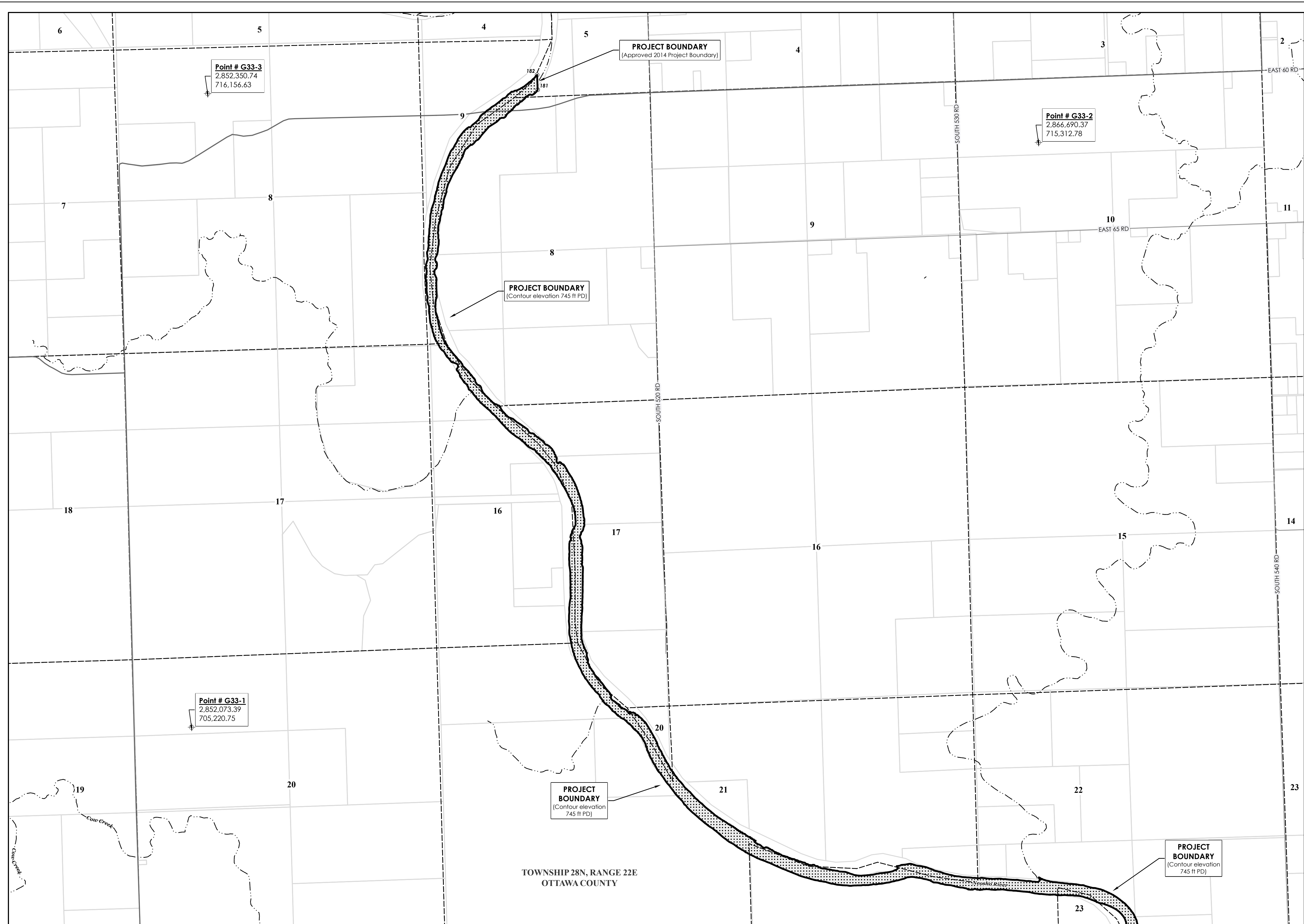


MAP NOTES

- Assessor data from Mayes, Ottawa, Delaware, and Craig counties is current as of June 2022. Any inaccuracies are in the original datasets. Interpretation of ownership designations is based on descriptive data provided in the Assessors' data. No additional research was conducted to validate the accuracy of the information.
- The Reservoir shown was developed from the 745 ft Pensacola Datum (PD) contour. Contours (745 ft PD and 750 ft NGVD) were used as a basis for the Project boundary were derived from the Digital Elevation Model (DEM) developed for the Upstream Hydraulic Model (UHM).
- When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.
- Public Land Survey System (PLSS) obtained from the Oklahoma Water Resources Board (<https://home-owrb.opendata.arcgis.com/>).
- National Hydrography Dataset (NHD) data (streams and lakes) were obtained from the National Map Download application (TNM Download at <https://viewer.nationalmap.gov/basic/#/>).
- Transportation network, county and municipal boundaries from the Oklahoma Department of Transportation GIS Open Data Portal (<https://gis-odot.opendata.arcgis.com/>).
- Federal lands shown were developed from Bureau of Indian Affairs (BIA) parcel data and Wetland Reserve Program (WRP) easements.

PROJECT BOUNDARY DEFINITION

- Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
- Portions of the anticipated project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
- Portions of the anticipated project boundary labeled as "Coincident with parcel line" are intended to follow a parcel boundary. See Map Note #1 for more information on parcel data sources.
- Portions of the anticipated project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.



Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Section Line	Local Road
		Municipal Boundary	

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 33
GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

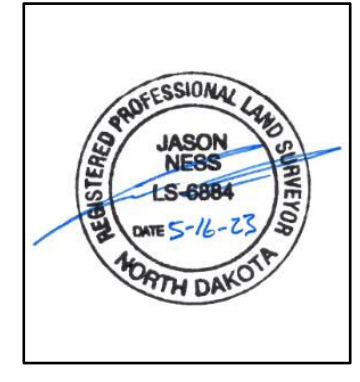
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.

5/16/2023
 DATE

JASON NESS

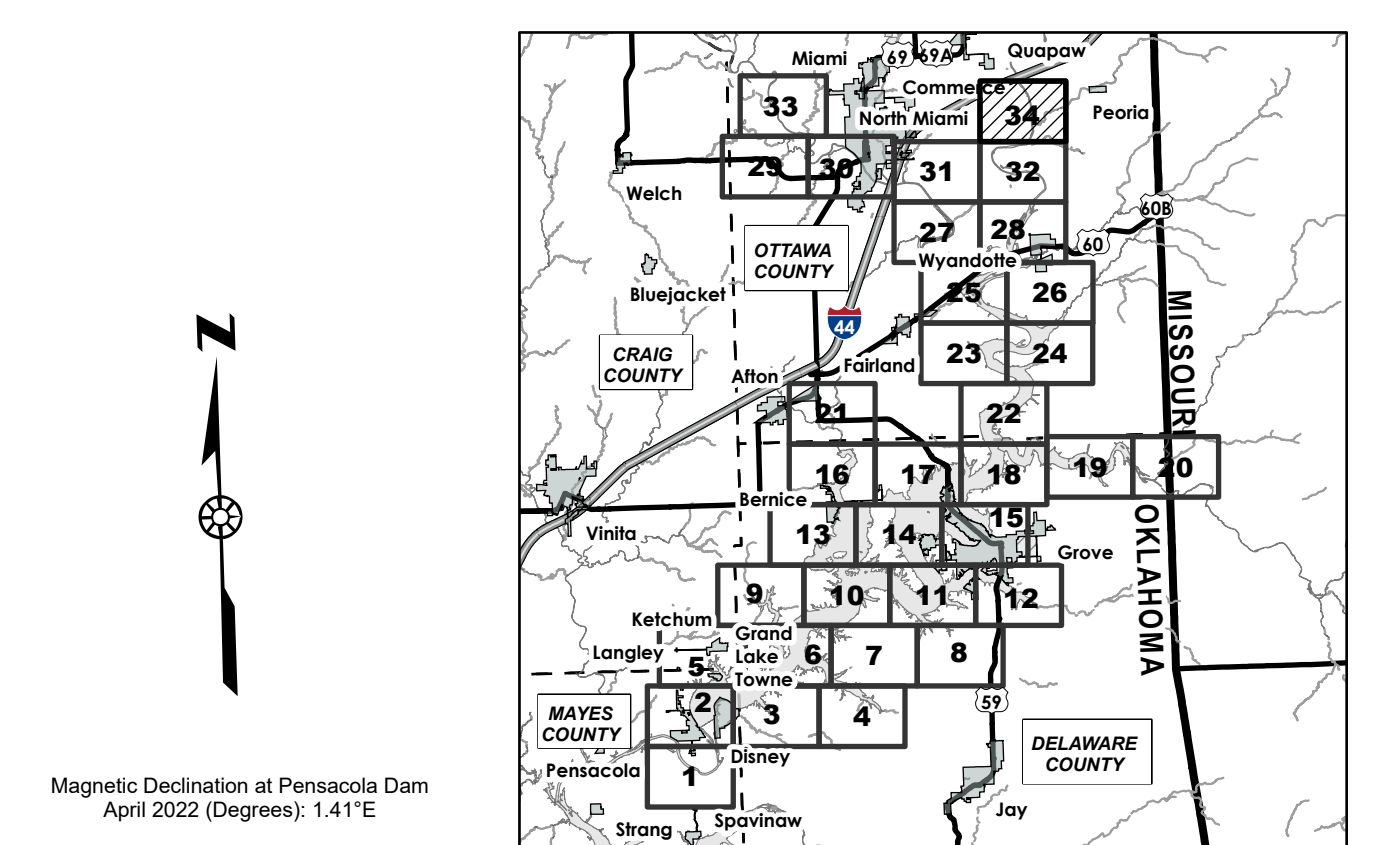
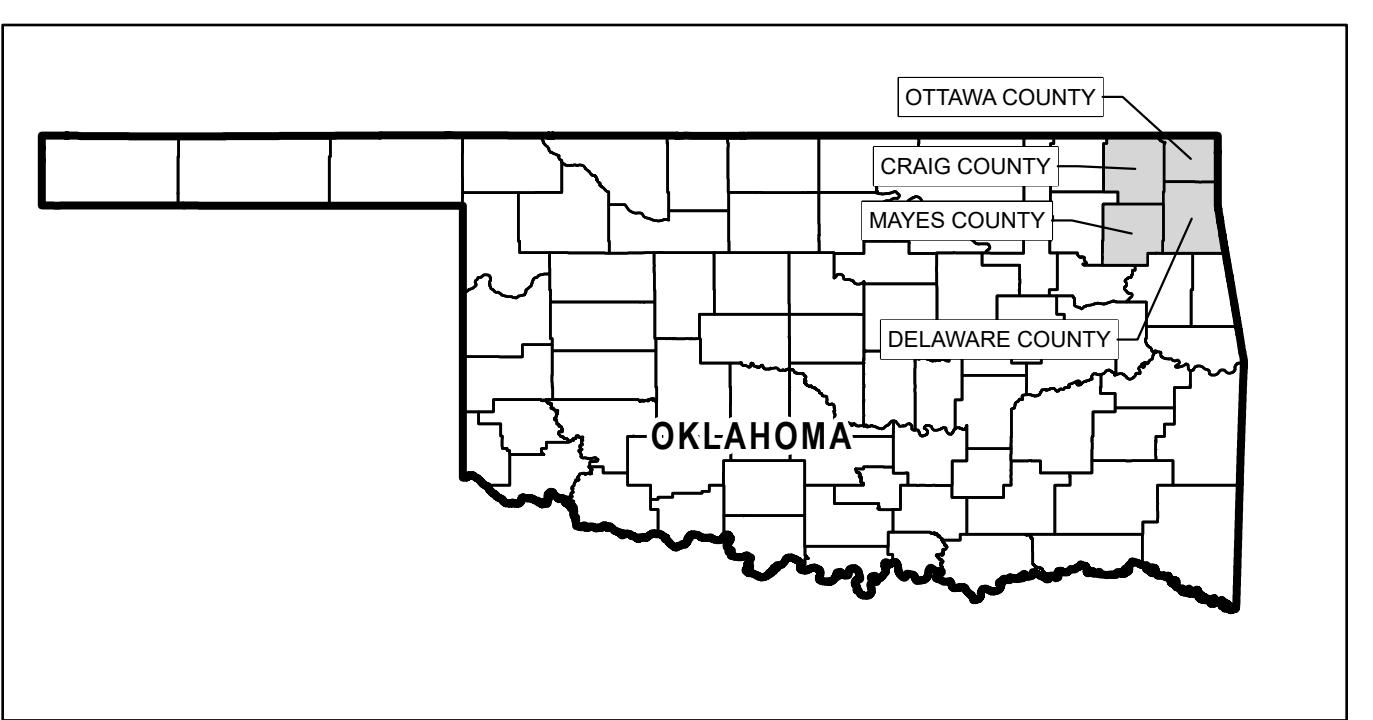


MAP NOTES

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PROJECT BOUNDARY DEFINITION

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Legend

Reference Point Location	Open Water	Fee Simple Ownership	Railroad
Public Access Site	Open Water - Flowage Rights	Parcel Boundary	Interstate
Boundary Point	Flowage Easement	Federal Lands	US Highway
Non-Project Facility	Other Open Water	County Boundary	State Highway
Project Facility	Stream	PLSS Township	Major Collector
Project Boundary		Municipal Boundary	Local Road

Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

900 450 0 900 1,800 2,700 3,600 Feet

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 34

GRAND RIVER DAM AUTHORITY LANGLEY, OKLAHOMA

PENSACOLA DAM HYDROELECTRIC PROJECT

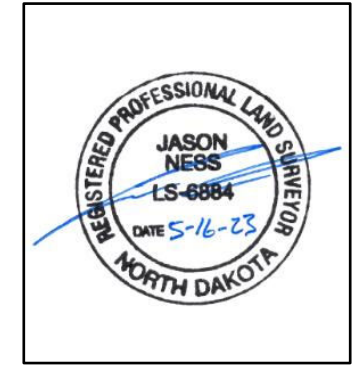
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES

PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
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5/16/2023
DATE



MAP NOTES

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PROJECT BOUNDARY DEFINITION

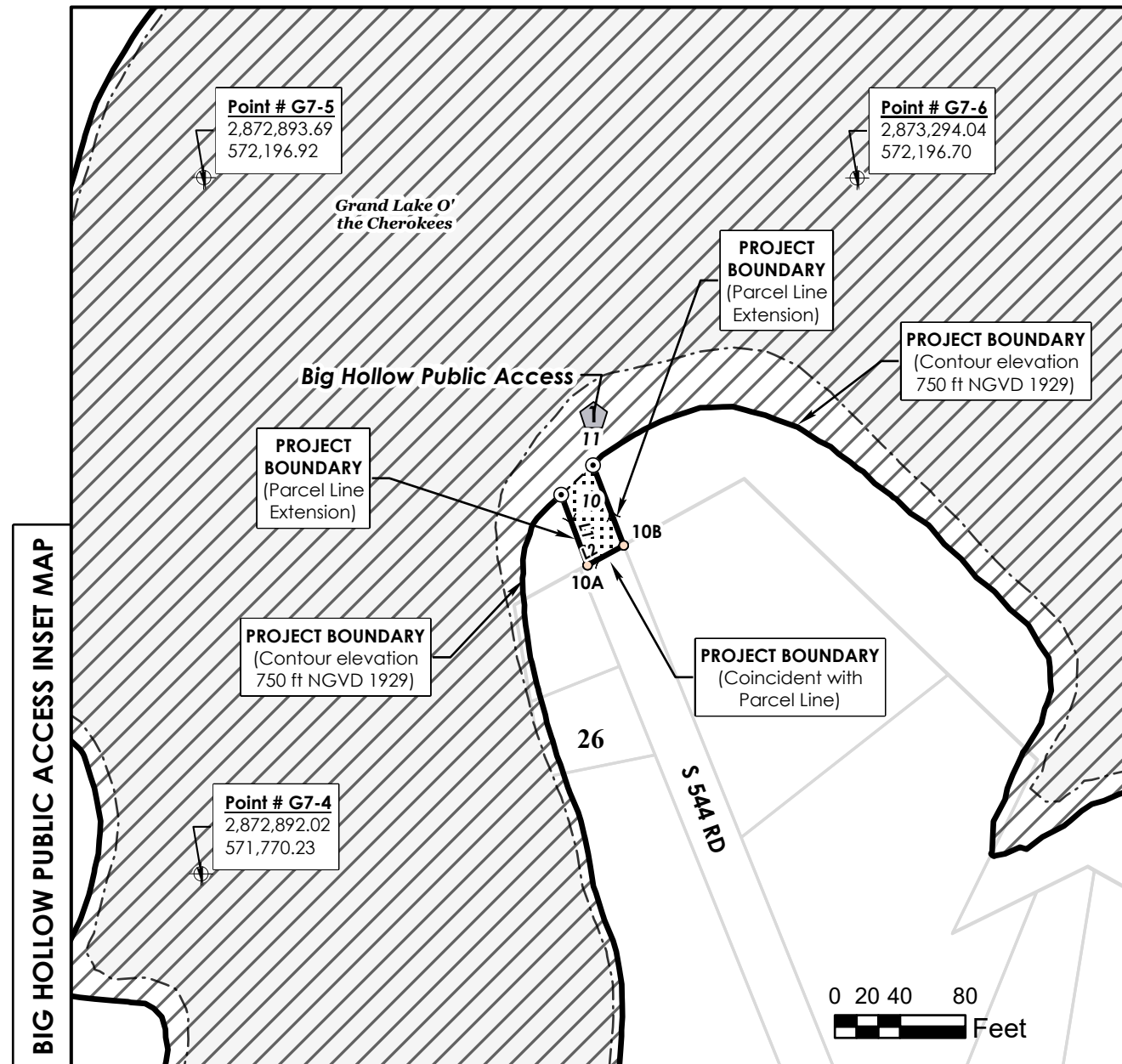
- Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
- Portions of the anticipated project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
- Portions of the anticipated project boundary based on contour lines are labeled with the contour and datum upon which they are based.
- Portions of the anticipated project boundary labeled as "Coincident with parcel line" are intended to follow a parcel boundary. See Map Note #1 for more information on parcel data sources.

PROJECT BOUNDARY DEFINITION

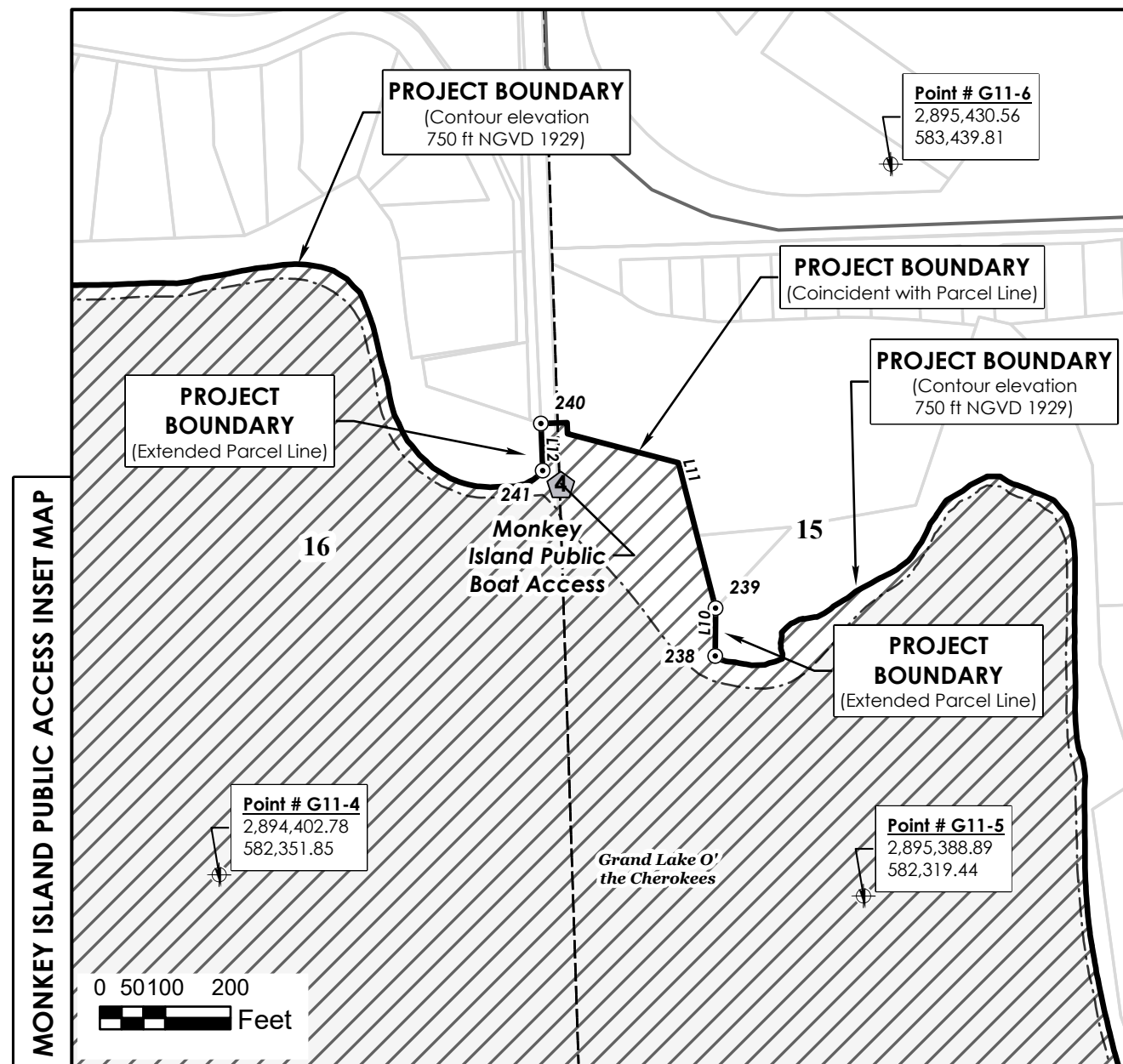
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PROJECT BOUNDARY DEFINITION

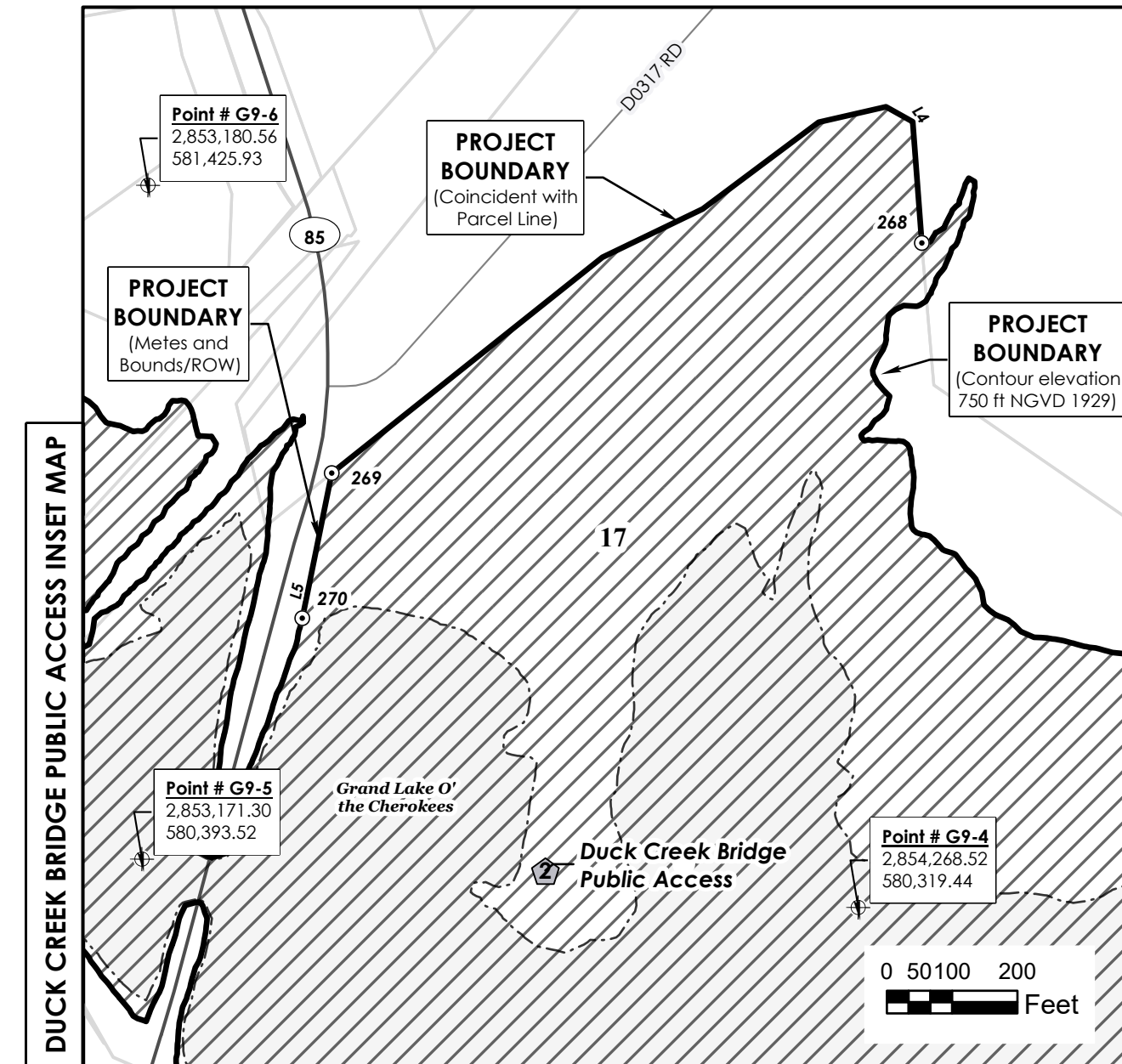
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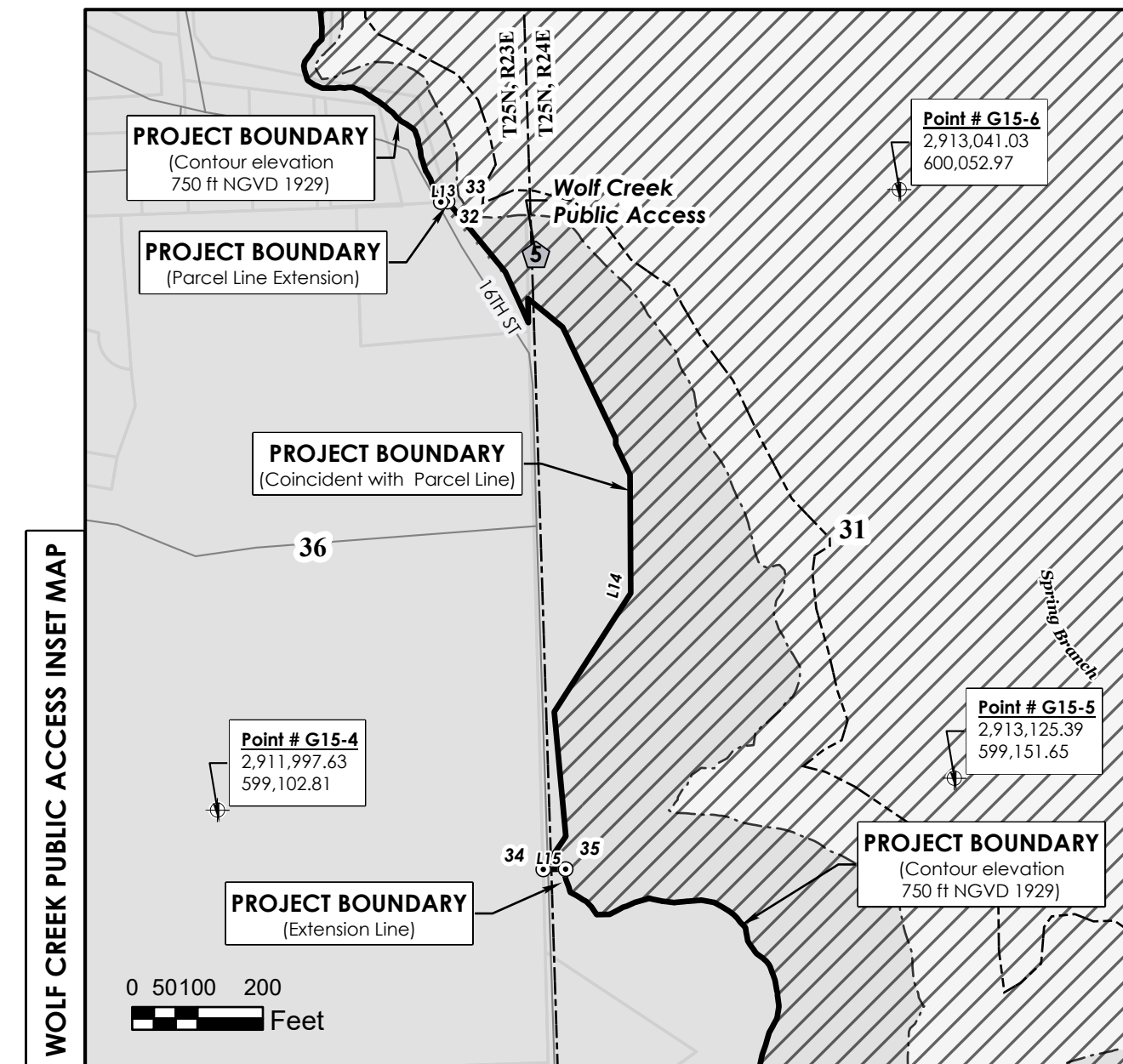
ID	From Point	To Point	Direction	Distance (ft)	Notes
1	10	10A	S20°28'06"E	46.16	From a point on a parcel line extension to a point on the parcel line
2	10A	10B	N61°15'42"E	25.28	From a point on the parcel line to a point on the parcel line
3	10B	11	N20°55'00"W	52.66	From a point on the parcel line to a point on the 750 ft NVGD 1929 contour elevation



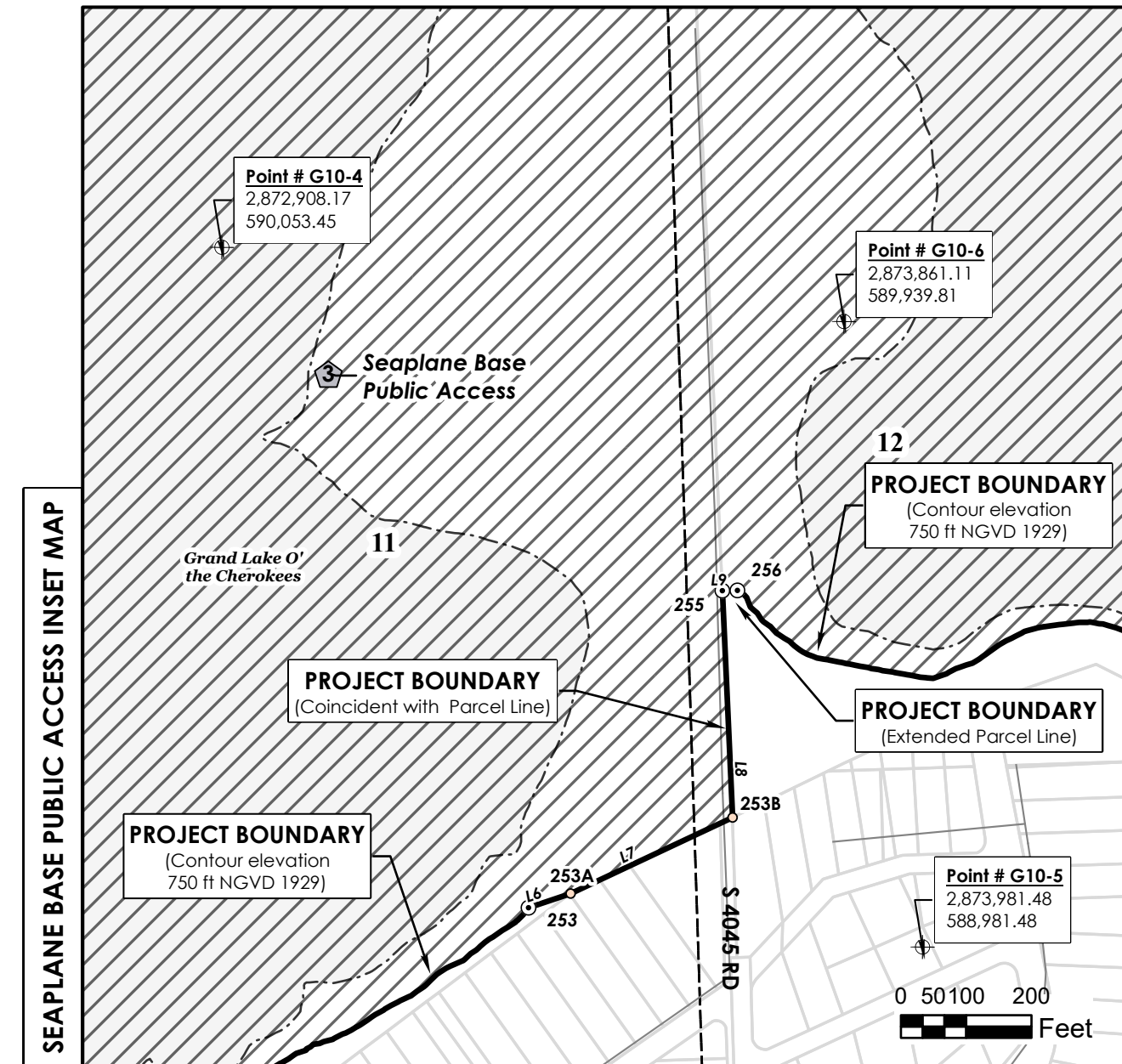
ID	From Point	To Point	Direction	Distance (ft)	Notes
10	238	239	N0°21'02"E	73.29	From a point on an extension line to a point on the parcel line
11	239	240		462.17	From a point on the parcel line to a point on a parcel line extension coincident with parcel line
12	240	241	S2°09'29"E	72.14	From a point on parcel line extension to a point on the 750 ft NVGD 1929 contour elevation



ID	From Point	To Point	Direction	Distance (ft)	Notes
4	268	269		1,261.48	From a point on the parcel line to a point on the road right-of-way
5	269	270	S11°28'26"W	226.84	From a point on the road right-of-way to a point on the 750 ft NVGD 1929 contour elevation coincident with the right-of-way



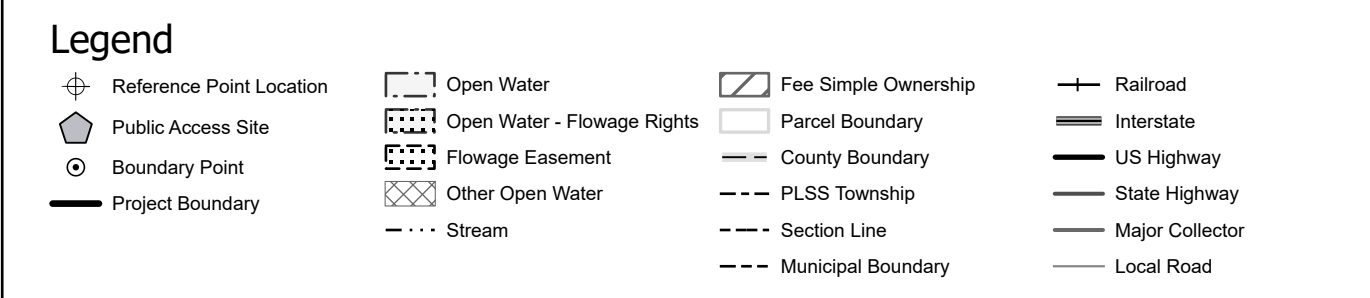
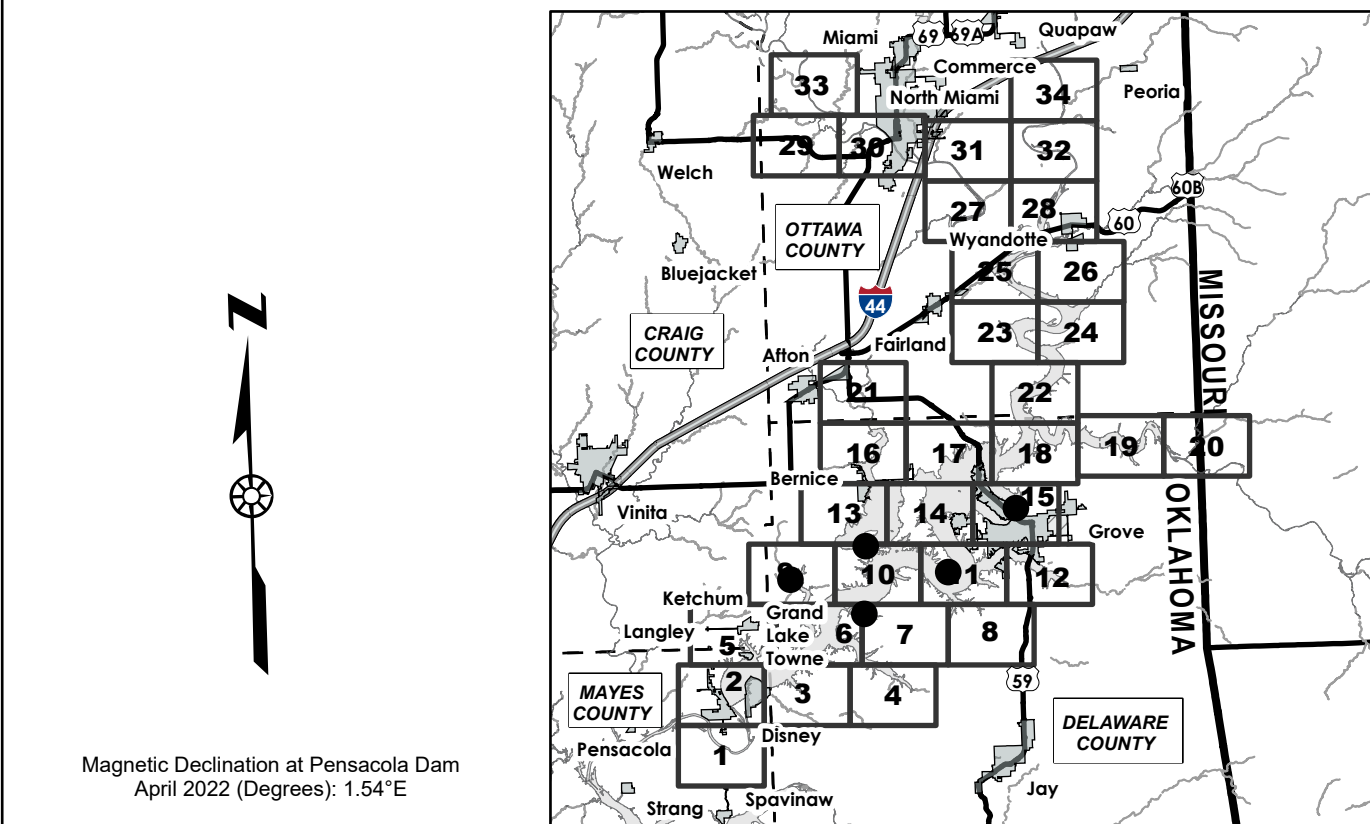
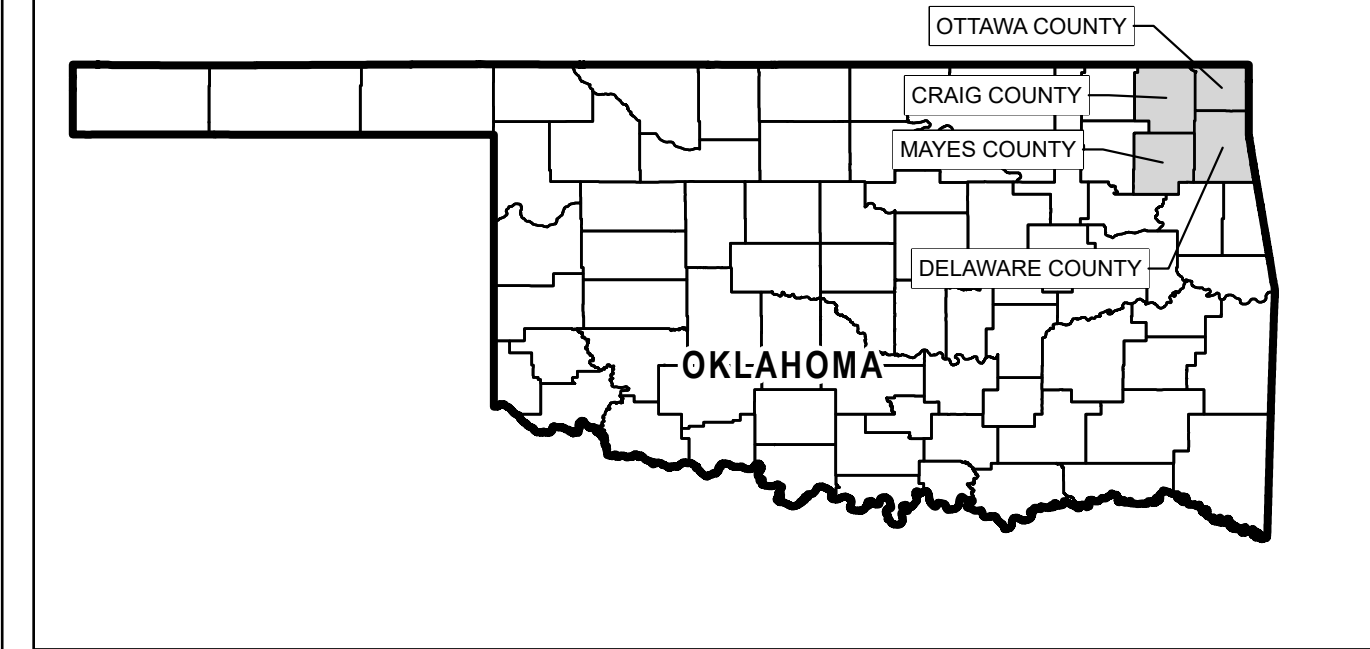
ID	From Point	To Point	Direction	Distance (ft)	Notes
13	32	33	N86°03'35"E	10.17	From a point on a parcel line extension to a point on the parcel line
14	33	34		1,229.75	From a point on the parcel line to a point on an extension line coincident with parcel line
15	34	35	N89°18'24"E	34.19	From a point on an extension line to a point on the 750 ft NVGD 1929 contour elevation



ID	From Point	To Point	Direction	Distance (ft)	Notes
6	253	253A	N71°22'43"E	68.04	From a point on a parcel line to a point on a parcel line coincident with parcel line
7	253A	253B	N64°50'32"E	274.14	From a point on a parcel line to a point on a parcel line coincident with parcel line
8	253B	255	N2°35'10"W	347.85	From a point on a parcel line to a point on an extension line
9	255	256	N89°01'48"E	23.08	From a point on an extension line to a point on the 750 ft NVGD 1929 contour elevation

RECREATION SITE TABLE

SITE ID	SITE NAME	LATITUDE	LONGITUDE
1	Big Hollow Public Access	36° 31' 55.413" N	094° 55' 13.575" W
2	Duck Creek Bridge Public Access	36° 33' 23.888" N	094° 59' 07.310" W
3	Seaplane Base Public Access	36° 34' 51.440" N	094° 55' 07.403" W
4	Monkey Island Public Boat Access	36° 33' 36.209" N	094° 50' 42.344" W
5	Wolf Creek Public Access	36° 36' 18.566" N	094° 47' 00.324" W



Unless noted otherwise, the Anticipated Project Boundary is based on the 750 ft NVGD 1929 contour elevation.

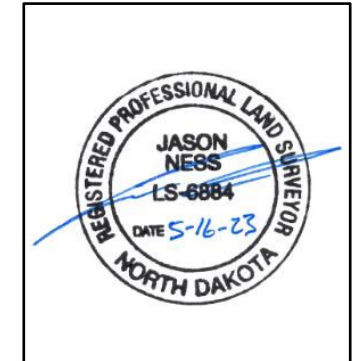
Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 35
GRAND RIVER DAM AUTHORITY
LANGLEY, OKLAHOMA

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

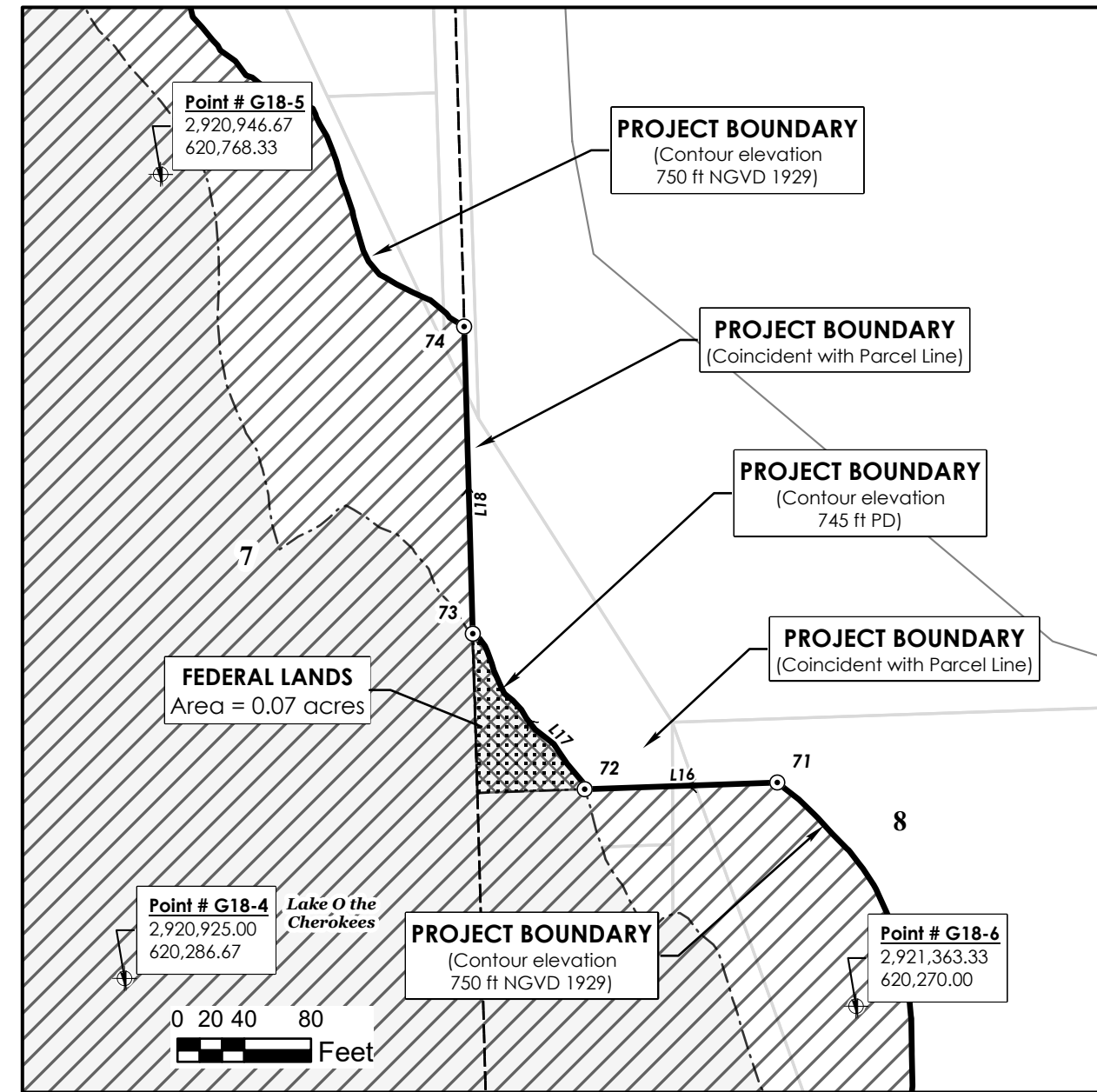
SURVEYOR'S STATEMENT
I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA DAM HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.



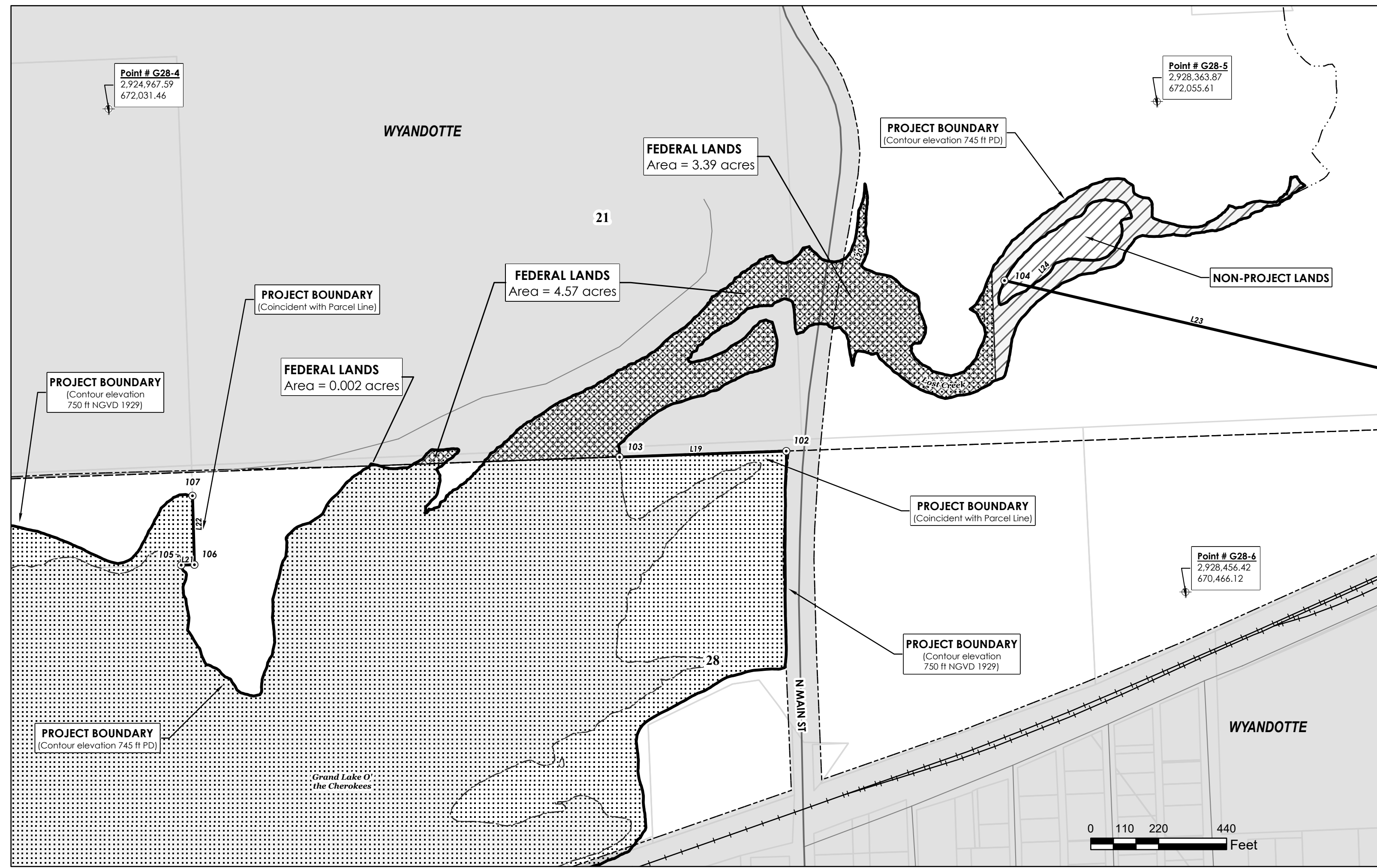
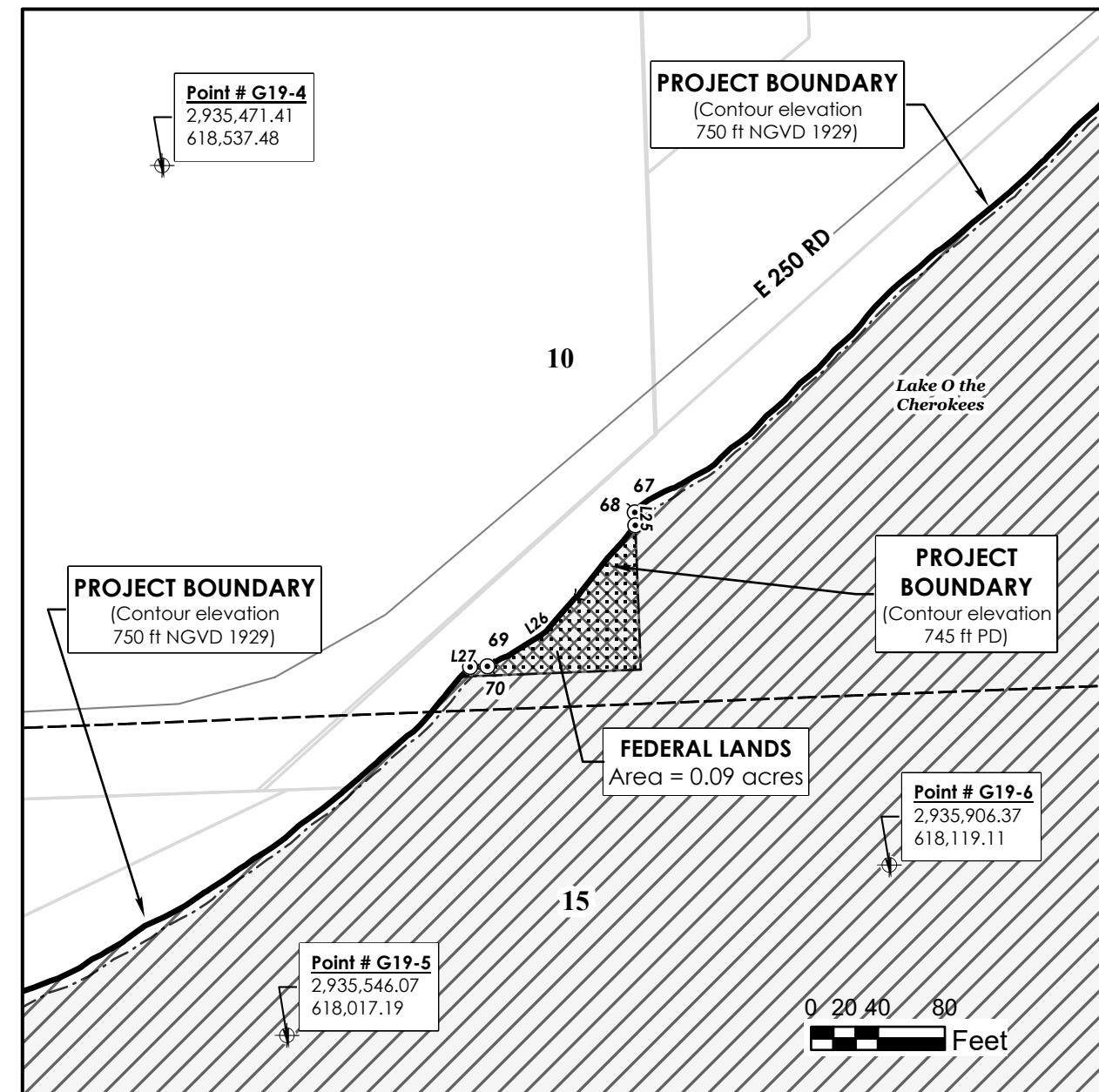
JASON NESS
DATE 5/16/2023

MAP NOTES
1. Assessor data from Mayes, Ottawa, Delaware, and Craig counties is current as of June 2022. Any inaccuracies are in the original datasets. Interpretation of ownership designations is based on descriptive data provided in the Assessors' data. No additional research was conducted to validate the accuracy of the information.
2. The Reservoir shown was developed from the 745 ft Pensacola Datum (PD) contour. Contours (745 ft PD and 750 ft NGVD) were used as a basis for the Project boundary were derived from the Digital Elevation Model (DEM) developed for the Upstream Hydraulic Model (UHM).
3. When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.

PROJECT BOUNDARY DEFINITION
1. Portions of the anticipated project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
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5. Portions of the anticipated project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.



ID	From Point	To Point	Direction	Distance (ft)	Notes
16	71	72	S88°00'15"W	115.48	From a point on the parcel line to a point on the 745 ft PD contour elevation
17	72	73		117.11	From a point on the 745 ft PD contour elevation to a point on a parcel line coincident with the 745 ft PD contour elevation
18	73	74	N1°37'07"W	184.05	From a point on parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line



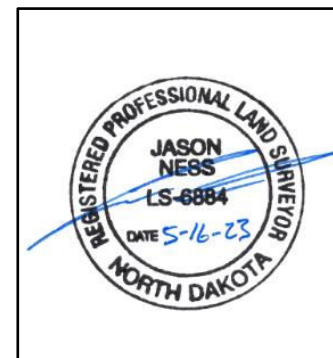
ID	From Point	To Point	Direction	Distance (ft)	Notes
19	102	103	S87°57'29"W	540.40	From a point on the parcel line to a point on the 745 ft PD contour elevation coincident with the parcel line
20	103	105		10,450.62	From a point on the 745 ft PD contour elevation to a point on parcel line coincident with the 745 ft PD contour elevation
21	105	106	N88°15'06"E	42.70	From a point on the parcel line to a point on the parcel line
22	106	107	N1°37'11"W	223.47	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line

The following to be excluded from the project boundary

ID	From Point	To Point	Direction	Distance (ft)	Notes
23	Sec Cor	104 (POB6)	N76°51'16"W	2,009.53	From SE Corner Section 21, T27N, R24E to Point 104 (POB6), a point on the 745 ft PD contour elevation
24	104 (POB6)	104 (POB6)		1,209.96	From a point 104 (POB6) to a point 104 (POB6) coincident with contour elevation 745 ft PD

ID	From Point	To Point	Direction	Distance (ft)	Notes
25	67	68	S2°13'51"E	7.75	From a point on the parcel line extension to a point on the 745 ft PD contour elevation
26	68	69		123.95	From a point on the 745 ft PD contour elevation to a point on an interpolated line coincident with the 745 ft PD contour elevation
27	69	70	S87°58'32"W	10.35	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation

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5/16/2023

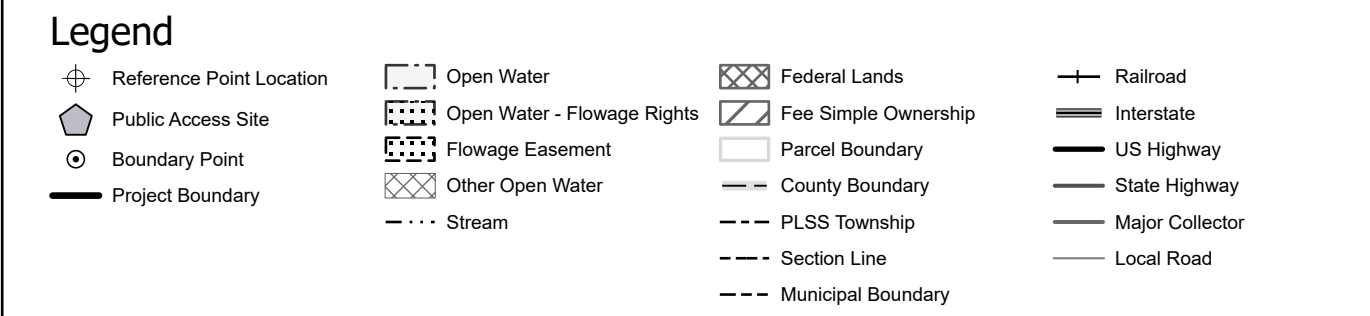
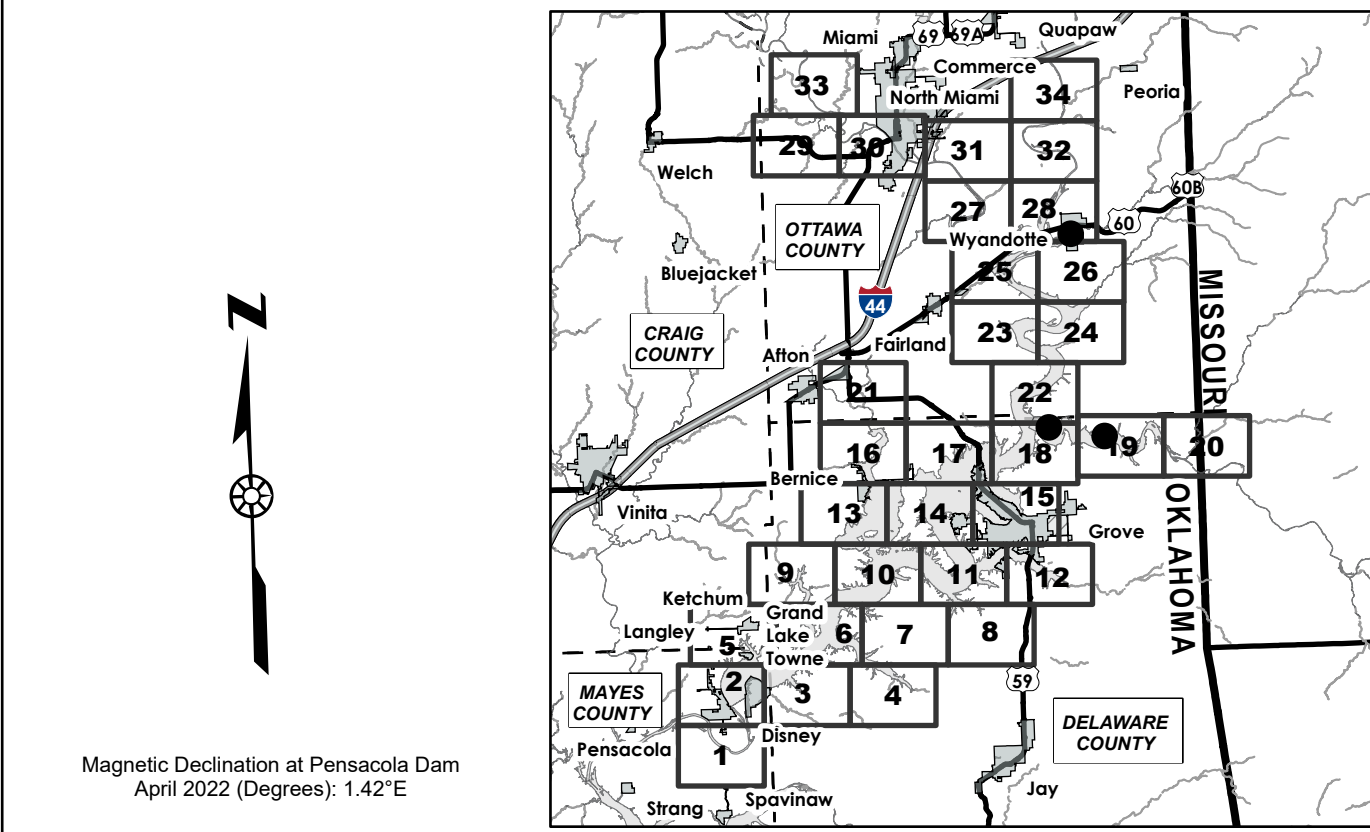
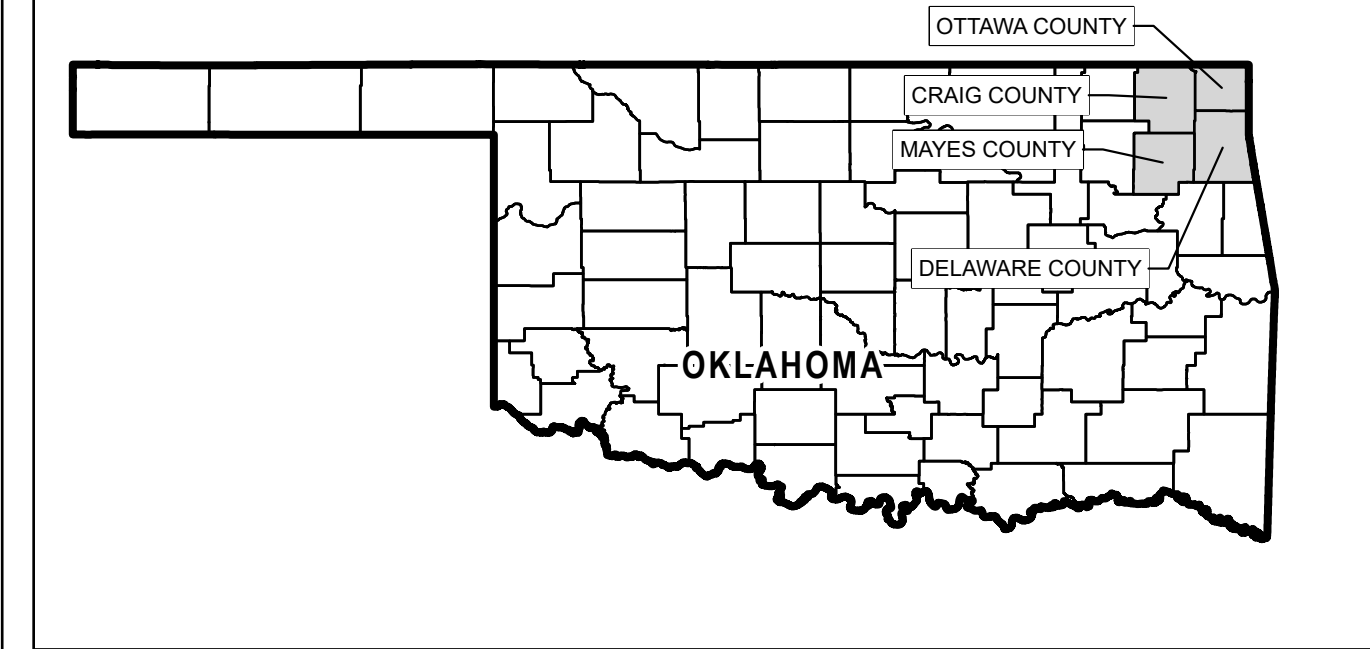
JASON NESS DATE

MAP NOTES

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PROJECT BOUNDARY DEFINITION

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GRAND RIVER DAM AUTHORITY LANGLEY, OKLAHOMA

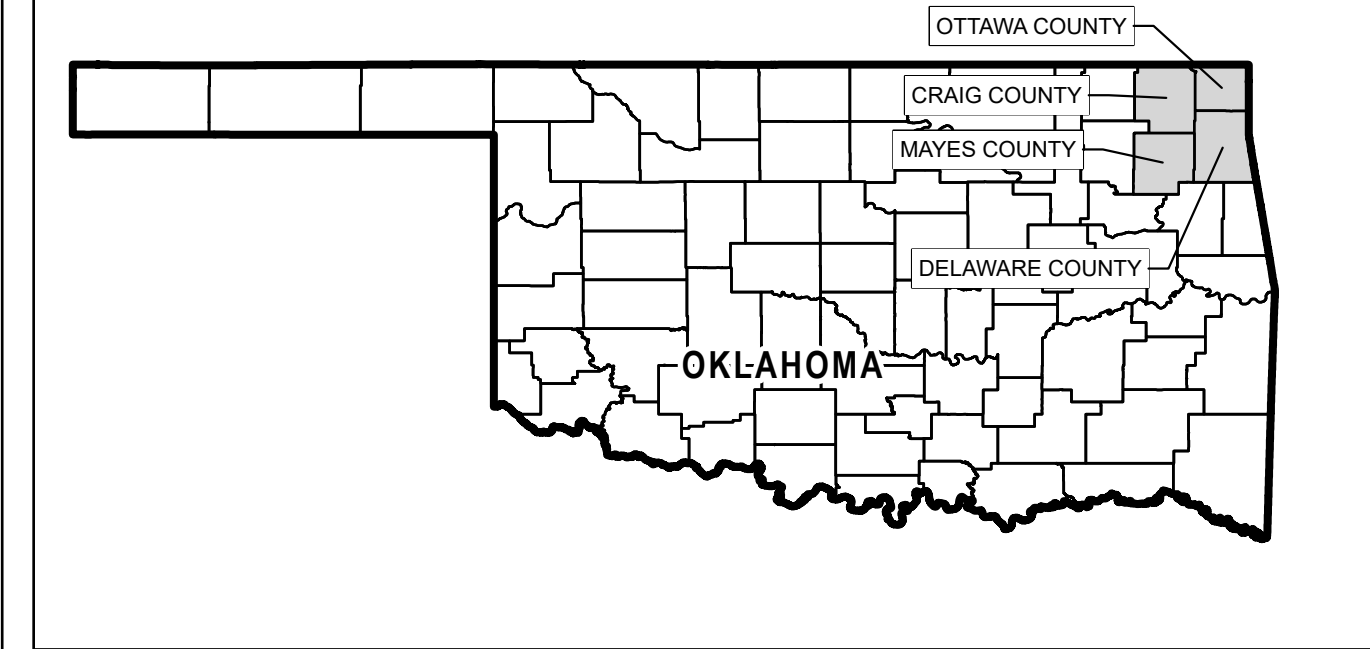
PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY EXPLANATION MAP

DATE: MAY 2023

PROJECT BOUNDARY COURSE TABLE

From Point	To Point	Direction	Distance (ft)	Notes
Sec Cor	1 (POB1)	N03°15'35"E	308.52	From SE Corner Section 15, T23N, R21E to Point 1 (POB1), a point on the approved 2014 Project Boundary
1	2		41654.68	From a point on the approved 2014 Project Boundary to a point on parcel line
2	3		12850.06	From a point on the parcel line to a point on the approved 2014 Project Boundary coincident with parcel line
3	4		1258.65	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
4	10		291957.57	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line extension coincident with the 750 ft NGVD 1929 contour elevation
10	10A	S20°28'06"E	46.16	From a point on a parcel line extension to a point on the parcel line (see Map G-35)
10A	10B	N61°15'42"E	25.28	From a point on the parcel line to a point on the parcel line
10B	11	N20°55'00"W	52.66	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation
11	13		140548.46	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with 750 ft NGVD 1929 contour elevation
13	14		12.39	From a point on an interpolated contour line to a point on the 745 ft PD contour elevation
14	15		1513.73	From a point on the 745 ft PD contour elevation to a point on a parcel line extension coincident with 745 ft PD contour elevation
15	16		16.80	From a point on a parcel line extension to a point on the 750 ft NGVD 1929 contour elevation
16	17		49610.51	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the contour elevation 750 ft NGVD 1929
17	18		140.84	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
18	19		1172.90	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
19	20		68.51	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
20	21		68922.70	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with 750 ft NGVD 1929 contour elevation
21	22		67.37	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
22	23		15804.97	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
23	24		120.72	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
24	25		1526.02	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
25	26		115.99	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
26	27		129699.15	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
27	28		73.98	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
28	29		1808.11	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with 750 ft NGVD 1929 contour elevation
29	30		97.54	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
30	32		96085.12	From a point on the 750 ft NGVD 1929 contour elevation to a point on a parcel line extension coincident with the 750 ft NGVD 1929 contour elevation
32	33	N86°03'35"E	10.17	From a point on a parcel line extension to a point on the parcel line (see Map G-35)
33	34		1229.75	From a point on the parcel line to a point on an extension line coincident with parcel line
34	35	N89°18'24"E	34.19	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
35	36		2955.87	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
36	37		21.39	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
37	38		100209.24	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation
38	39		810.15	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with parcel line
39	40		37472.68	From a point on the 750 ft NGVD 1929 contour elevation to a point on an extension line coincident with 750 ft NGVD 1929 contour elevation
40	41		199.57	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
41	42		34367.26	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with 750 ft NGVD 1929 contour elevation
42	43		80.75	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
43	44		179.58	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with 750 ft NGVD 1929 contour elevation
44	45		35.64	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
45	46		26974.62	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with 750 ft NGVD 1929 contour elevation
46	47		131.48	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
47	48		441.78	From a point on the 750 ft NGVD 1929 contour elevation to a point on a parcel line coincident with the 750 ft NGVD 1929 contour elevation
48	49		706.84	From a point on the parcel line to point on a parcel line extension coincident with parcel line
49	50		14.88	From a point on parcel line extension to a point on the 750 ft NGVD 1929 contour elevation
50	51		1234.51	From a point on the 750 ft NGVD 1929 contour elevation to a point on an extension line coincident with the 750 ft NGVD 1929 contour elevation
51	52		208.57	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
52	53		9130.23	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation
53	54		1257.08	From a point on the parcel to a point on the parcel line extension coincident with parcel line
54	55		34.29	From a point on the parcel line extension to a point on the 750 ft NGVD 1929 contour elevation
55	57		4226.02	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line
57	58		14.83	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
58	59		809.27	From a point on the 750 ft NGVD 1929 contour elevation to a point on a parcel line coincident with the 750 ft NGVD 1929 contour elevation
59	60		1459.29	From a point on the parcel line to a point on a parcel line extension coincident with parcel line
60	61		116.38	From a point on the parcel line extension to a point on the 750 ft NGVD 1929 contour elevation
61	62		28626.01	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation

From Point	To Point	Direction	Distance (ft)	Notes
62	63		4709.55	From a point on the parcel line to a point on parcel line extension coincident with parcel line
63	64		13.82	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation
64	65		9552.38	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation
65	66		1716.97	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the 750 ft NGVD 1929 contour elevation
66	67		11554.68	From a point on the 750 ft NGVD 1929 contour elevation to a point on a parcel line extension coincident with the 750 ft NGVD 1929 contour elevation
67	68	S02°13'51"E	7.75	From a point on the parcel line extension to a point on the 745 ft PD contour elevation (see Map G-36)
68	69		123.95	From a point on the 745 ft PD contour elevation to a point on an interpolated line coincident with the 745 ft PD contour elevation
69	70	S87°58'32"W	10.35	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation
70	71		37420.83	From a point on the 750 ft NGVD 1929 contour elevation to a point on a parcel line coincident with the 750 ft NGVD 1929 contour elevation
71	72	S88°00'15"W	115.48	From a point on the parcel line to a point on the 745 ft PD contour elevation (See Map G-36)
72	73		117.11	From a point on the 745 ft PD contour elevation to a point on a parcel line coincident with the 745 ft PD contour elevation
73	74	N01°37'07"W	184.05	From a point on parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line
74	75		33205.46	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation
75	76		1647.76	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line
76	77		42941.36	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated line coincident with the 750 ft NGVD 1929 contour elevation
77	78		46.76	From a point on an interpolated line to a point on the parcel line
78	79		3894.08	From a point on the parcel line to a point on an interpolated line coincident with the parcel line
79	80		31.86	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation
80	81		18049.51	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated line coincident with the 750 ft NGVD 1929 contour elevation
81	82		22.38	From a point on an interpolated line to a point on the parcel line
82	83		1369.90	From a point on the parcel line to a point on an interpolated line coincident with parcel line
83	84		5.65	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation
84	85		1369.51	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated line coincident with the 750 ft NGVD 1929 contour elevation
85	86		34.08	From a point on an interpolated line to a point on the parcel line
86	87		1429.95	From a point on the parcel line to a point on an interpolated line coincident with the parcel line
87	88		0.54	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation
88	89		15118.10	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated line coincident with the 750 ft NGVD 1929 contour elevation
89	90		10.52	From a point on an interpolated line to a point on the parcel line
90	91		926.14	From a point on the parcel line to a point on an interpolated line coincident with parcel line
91	92		56.60	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation
92	93		6126.93	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated line
93	94		213.25	From a point on an interpolated line to a point on the parcel line
94	95		2621.13	From a point on the parcel line to a point on an interpolated line coincident with parcel line
95	96		44.71	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation
96	97		18667.56	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated line
97	98		39.72	From a point on an interpolated line to a point on the parcel line
98	99		1617.90	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with parcel line
99	100		41053.72	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line
100	101		835.78	From a point on an interpolated line to a point on the 750 ft NGVD 1929 contour elevation
101	102		24043.38	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line
102	103	S87°57'29"W	540.40	From a point on the parcel line to a point on the 745 ft PD contour elevation coincident with the parcel line (see Map G-36)
103	105		10450.62	From a point on the 745 ft PD contour elevation to a point on parcel line coincident with the 745 ft PD contour elevation
105	106	N88°15'06"E	42.70	From a point on the parcel line to a point on the parcel line
106	107	N01°37'11"W	223.47	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line
107	108		13542.60	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
108	109		3022.15	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
109	110		8328.27	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
110	111		3421.07	From a point on the approved 2014 project boundary to a point on the parcel line coincident with the approved 2014 Project Boundary
111	112		2424.23	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line
112	113		2302.46	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated line coincident with the 750 ft NGVD 1929 contour elevation
113	114		62.71	From a point on an interpolated line to a point on the parcel line
114	115		3502.81	From a point on the parcel line to a point on the approved 2014 Project Boundary coincident with the parcel line
115	116		5142.07	From a point on the approved 2014 Project Boundary to a point on an interpolated line coincident with the approved 2014 Project Boundary
116	117		36.70	From a point on an interpolated line to a point on the 745 ft PD contour elevation
117	118		3885.25	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary
118	119		471.00	From a point on the approved 2014 project boundary to a point on the parcel line



Magnetic Declination at Pensacola Dam
April 2022 (Degrees): 1.46°E

Unless noted otherwise, the Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft)

EXHIBIT G - 37

GRAND RIVER DAM AUTHORITY

LANGLEY, OKLAHOMA

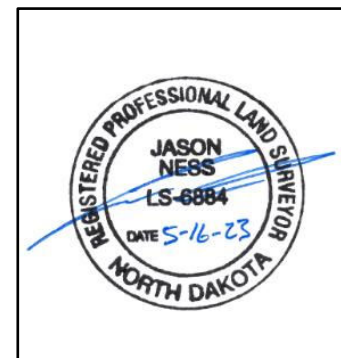
PENSACOLA DAM HYDROELECTRIC PROJECT

**FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES**

PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.



5/16/2023

JASON NESS DATE

MAP NOTES
1. Assessor data from Mayes, Ottawa, Delaware, and Craig counties is current as of June 2022. Any inaccuracies are in the original datasets. Interpretation of ownership designations is based on descriptive data provided in the Assessors' data. No additional research was conducted to validate the accuracy of the information.
2. The Reservoir shown was developed from the 745 ft Pensacola Datum (PD) contour. Contours (745 ft PD and 750 ft NGVD) were used as a basis for the Project boundary were derived from the Digital Elevation Model (DEM) developed for the Upstream Hydraulic Model (UHM).
3. When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of

conflict.
4. Public Land Survey System (PLSS) obtained from the Oklahoma Water Resources Board (<https://home-owrb.opendata.arcgis.com/>).
5. National Hydrography Dataset (NHD) data (streams and lakes) were obtained from the National Map Download application (TNM Download at <https://viewer.nationalmap.gov/basic/#/>).
6. Transportation network, county and municipal boundaries from the Oklahoma Department of Transportation GIS Open Data Portal (<https://gis-odot.opendata.arcgis.com/>).
7. Federal lands shown were developed from Bureau of Indian Affairs (BIA) parcel data and Wetland Reserve Program (WRP) easements.

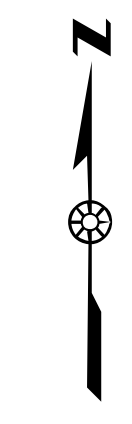
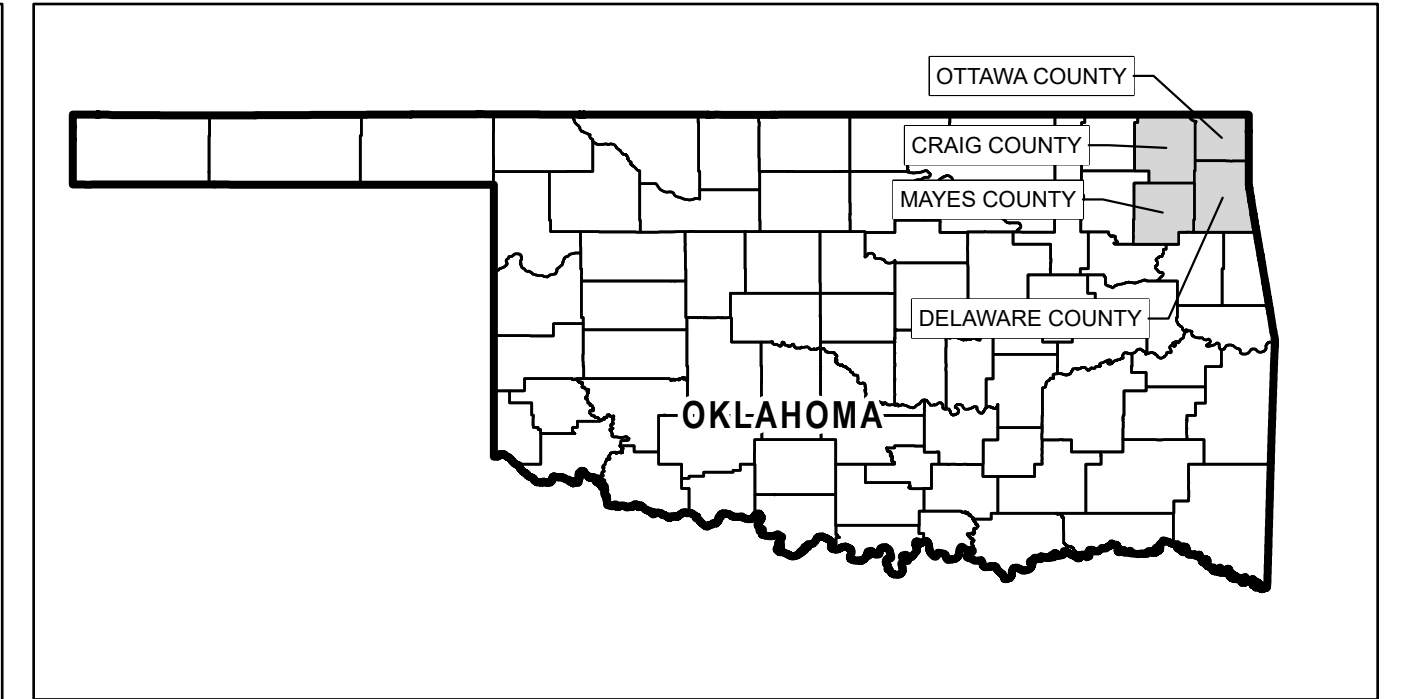
PROJECT BOUNDARY DEFINITION
1. Portions of the project boundary labeled as "Approved 2014 Project Boundary" are based on the FERC approved project boundary last amended January 27, 2014.
2. Portions of the project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
3. Portions of the project boundary based on contour lines are labeled with the contour and datum upon which they are based.
4. Portions of the project boundary labeled as "Coincident with parcel line" are intended to follow a

parcel boundary. See Map Note #1 for more information on parcel data sources.
5. Portions of the project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.

PROJECT BOUNDARY COURSE TABLE

From Point	To Point	Direction	Distance (ft)	Notes
119	120		3097.94	From a point on the parcel line to a point on the 745 ft PD contour elevation coincident with parcel line
120	121		942.48	From a point on the 745 ft PD contour elevation to a point on the parcel line coincident with the 745 ft PD contour elevation
121	122		496.60	From a point on the parcel line to a point on the approved 2014 Project Boundary coincident with parcel line
122	123		7212.38	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
123	124		194.88	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary
124	125		35371.22	From a point on the the approved 2014 Project Boundary to a point on an interpolated line coincident with the approved 2014 project boundary
125	126		58.60	From a point on an interpolated line to a point on the 745 ft PD contour elevation
126	127		27778.69	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary
127	128		424.90	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
128	129		24461.71	From a point on the 745 ft PD contour elevation to a point on an interpolated line coincident with the 745 ft PD contour elevation
129	130		6.48	From a point on an interpolated line to a point on the approved 2014 Project Boundary
130	131		5446.57	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
131	132		3833.31	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
132	133		12928.52	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
133	134		1031.67	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
134	135		116.63	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
135	136		212.93	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
136	137		20583.87	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
137	138		7262.66	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
138	139		1517.02	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
139	140		1383.56	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
140	141		12162.03	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
141	142		489.86	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
142	143		4824.29	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
143	144		1166.12	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
144	145		6499.00	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
145	146		119.51	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
146	147		298.55	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
147	148		325.04	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
148	149		3671.05	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
149	150		501.20	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
150	151		8815.66	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
151	152		2554.21	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
152	153		4986.81	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
153	154		5981.59	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
154	155		1957.17	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
155	156		438.73	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
156	157		2628.56	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
157	158		2786.29	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
158	159		3664.08	From a point on the approved 2014 Project Boundary to a point on an extension line coincident with the approved 2014 Project Boundary
159	160		134.46	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
160	161		2556.35	From a point on the 750 ft NGVD 1929 contour elevation to a point on an extension line coincident with the 750 ft NGVD 1929 contour elevation
161	162		14.66	From a point on an extension line to a point on the approved 2014 Project Boundary
162	163		38424.51	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
163	164		160.72	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary coincident with the 745 ft PD contour elevation
164	165		3819.23	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
165	166		441.00	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
166	167		687.33	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
167	168		1606.89	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
168	169		4988.33	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary

From Point	To Point	Direction	Distance (ft)	Notes
169	170		394.26	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
170	171		12843.29	From a point on the approved 2014 Project Boundary to a point on road right-of-way coincident with the approved 2014 Project Boundary
171	172		191.91	From a point on the road right-of-way to a point on the 750 ft NGVD 1929 contour elevation coincident with the road right-of-way
172	173		3134.59	From a point on the 750 ft NGVD 1929 contour elevation to a point on an extension line coincident with the 750 ft NGVD 1929 contour elevation
173	174		52.15	From a point on an extension line to a point on the approved 2014 Project Boundary
174	175		5576.87	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
175	176		236.13	From a point on the 750 ft NGVD 1929 contour elevation to a point on an extension line coincident with the 750 ft NGVD 1929 contour elevation
176	177		9.64	From a point on an extension line to a point on the approved 2014 Project Boundary
177	178		12560.00	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
178	179		661.75	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary coincident with the 745 ft PD contour elevation
179	180		18525.17	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
180	181		31918.73	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary coincident with the 745 ft PD contour elevation
181	182		257.81	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
182	183		40479.43	From a point on the 745 ft PD contour elevation to a point on the parcel line coincident with the 745 ft PD contour elevation
183	184		15141.48	From a point on the parcel line to a point on the 745 ft PD contour elevation coincident with parcel line
184	186		4097.96	From a point on the 745 ft PD contour elevation to a point on the parcel line coincident with the 745 ft PD contour elevation
186	187		913.23	From a point on the parcel line to a point on the 745 ft PD contour elevation coincident with the parcel line
187	188		465.92	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary coincident with the 745 ft PD contour elevation
188	189		1323.40	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
189	190		71.24	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary coincident with the 745 ft PD contour elevation
190	191		20515.88	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD1929 contour elevation coincident with the approved 2014 Project Boundary
191	192		2160.82	From a point on the 750 ft NGVD1929 contour elevation to a point on the road right-of-way coincident with the 750 ft NGVD 1929 contour elevation
192	193		498.28	From a point on the road right-of-way to a point on the approved 2014 Project Boundary coincident with the road right-of-way
193	194		5308.44	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
194	195		120.63	From a point on the 745 ft PD contour to a point on the approved 2014 Project Boundary coincident with the 745 ft PD contour elevation
195	196		6196.16	From a point on the approved 2014 Project Boundary to a point on an extension line coincident with the approved 2014 Project Boundary
196	197		107.59	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
197	198		1524.32	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
198	199		332.50	From a point on the approved 2014 Project Boundary to a point on the parcel line coincident with the approved 2014 Project Boundary
199	200		2532.07	From a point on the parcel line to an extension line coincident with the parcel line
200	201		110.71	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
201	202		883.92	From a point on the 750 ft NGVD 1929 contour elevation to a point on the road right-of-way coincident with the 750 ft NGVD 1929 contour elevation
202	203		134.44	From a point on the road right-of-way to a point on the approved 2014 Project Boundary coincident with the road right-of-way
203	204		22984.33	From a point on the approved 2014 Project Boundary to a point on the 745 ft PD contour elevation coincident with the approved 2014 Project Boundary
204	205		105.86	From a point on the 745 ft PD contour elevation to a point on the approved 2014 Project Boundary coincident with the 745 ft PD contour elevation
205	206		2274.53	From a point on the approved 2014 Project Boundary to a point on the parcel line coincident with the approved 2014 Project Boundary
206	207		94.30	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line
207	208		17396.55	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation
208	209		17.96	From a point on the parcel line to a point on the approved 2014 Project Boundary coincident with the parcel line
209	210		1367.16	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD1929 contour elevation coincident with the approved 2014 Project Boundary
210	211		352.34	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
211	212		7771.99	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
212	213		733.04	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
213	114		5466.91	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
214	215		451.15	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation



Magnetic Declination at Pensacola Dam
April 2022 (Degrees): 6.33°E

Unless noted otherwise, the Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

Reference coordinates are in Oklahoma Stateplane North Zone FIPS 3501, NAD83. Coordinate units are in U.S. Survey feet. Project boundary elevation contour is referenced to the National Geodetic Vertical Datum (NGVD) 1929 or Pensacola Datum (PD) (NGVD 1929=PD+1.07 ft

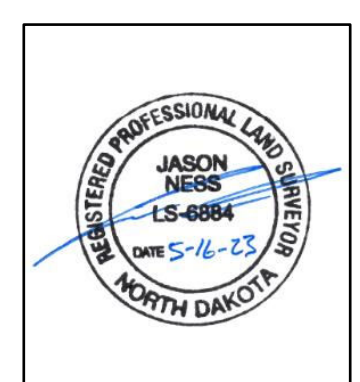
EXHIBIT G - 38

GRAND RIVER DAM AUTHORITY **LANGLEY, OKLAHOMA**

PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

SURVEYOR'S STATEMENT
 I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE PENSACOLA HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES REQUIRED IN 18CFR 4.41. THE DOCUMENTED PENSACOLA PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM OKLAHOMA COUNTY AND ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.



5/16/2023

JASON NESS DATE

MAP NOTES
 1. Assessor data from Mayes, Ottawa, Delaware, and Craig counties is current as of June 2022. Any inaccuracies are in the original datasets. Interpretation of ownership designations is based on descriptive data provided in the Assessors' data. No additional research was conducted to validate the accuracy of the information.
 2. The Reservoir shown was developed from the 745 ft Pensacola Datum (PD) contour. Contours (745 ft PD and 750 ft NGVD) where used as a basis for the Project boundary were derived from the Digital Elevation Model (DEM) developed for the Upstream Hydraulic Model (UHM).
 3. When the project boundary description references a specific known location in the field, that reference shall govern over graphical location on the Exhibit G in case of conflict.

4. Public Land Survey System (PLSS) obtained from the Oklahoma Water Resources Board (<https://home-owrb.opendata.arcgis.com/>).
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 6. Transportation network, county and municipal boundaries from the Oklahoma Department of Transportation GIS Open Data Portal (<https://gis-odot.opendata.arcgis.com/>)
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PROJECT BOUNDARY DEFINITION
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 2. Portions of the project boundary labeled as "Interpolation or Extension" indicate either an interpolated contour line is used to join disconnected segments of equivalent contours or a parcel line extension to connect to a defined contour.
 3. Portions of the project boundary based on contour lines are labeled with the contour and datum upon which they are based.
 4. Portions of the project boundary labeled as "Coincident with parcel line" are intended to follow a

parcel boundary. See Map Note #1 for more information on parcel data sources.
 5. Portions of the project boundary labeled as "Metes and bounds/ROW" are defined by a metes and bounds description or an existing ROW.

PROJECT BOUNDARY COURSE TABLE

From Point	To Point	Direction	Distance (ft)	Notes
215	216		6162.42	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
216	217		391.00	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
217	218		3220.55	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
218	219		1899.99	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
219	220		26754.82	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
220	221		503.41	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
221	222		2970.8	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
222	223		1834.45	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
223	224		3034.32	From a point on the approved 2014 Project Boundary to a point on an extension line coincident with the approved 2014 Project Boundary
224	225		19.93	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
225	227		21741.41	From a point on the 750 ft NGVD 1929 contour elevation to a point on interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
227	228		338.91	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
228	229		810.41	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
229	230		194.58	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
230	232		180014.13	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary coincident with the 750 ft NGVD 1929 contour elevation
232	234		44.23	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
234	238		146841.76	From a point on the 750 ft NGVD 1929 contour elevation to a point on an extension line coincident with the 750 ft NGVD 1929 contour elevation
238	239	N00°21'02"W	73.29	From a point on an extension line to a point on the parcel line (See Map G-35)
239	240		462.17	From a point on the parcel line to a point on a parcel line extension coincident with parcel line
240	241	S02°09'29"W	72.14	From a point on parcel line extension to a point on the 750 ft NGVD 1929 contour elevation
241	244		142009.23	From a point on the 750 ft NGVD 1929 contour to an interpolated 750 ft NGVD 1929 contour elevation
244	246		127.89	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
246	247		573.63	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
247	248		193.81	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
248	249		2434.37	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
249	250		150.07	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
250	251		579.60	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
251	252		115.44	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
252	253		107619.58	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation
253	253A	N71°22'43"E	68.04	From a point on a parcel line to a point on a parcel line coincident with parcel line (see Map G-35)
253A	253B	N64°50'32"E	274.14	From a point on a parcel line to a point on a parcel line coincident with parcel line
253B	255	N02°35'10"W	347.85	From a point on a parcel line to a point on an extension line
255	256	N89°01'48"E	23.08	From a point on an extension line to a point on the 750 ft NGVD 1929 contour elevation
256	258		135198.89	From a point on the 750 ft NGVD 1929 contour elevation to an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
258	259		64.46	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
259	260		675.85	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
260	261		73.82	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
261	262		949.88	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line
262	263		7521.24	From a point on the parcel line to a point on the 750 ft NGVD 1929 contour elevation coincident with the parcel line
263	264		4533.94	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
264	265		89.12	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
265	266		2158.35	From a point on the 750 ft NGVD 1929 contour elevation to a point on an interpolated contour line coincident with the 750 ft NGVD 1929 contour elevation
266	267		95.68	From a point on an interpolated contour line to a point on the 750 ft NGVD 1929 contour elevation
267	268		5795.51	From a point on the 750 ft NGVD 1929 contour elevation to a point on the parcel line coincident with the 750 ft NGVD 1929 contour elevation
268	269		1261.48	From a point on the parcel line to a point on the road right-of-way (See Map G-35)
269	270	S11°28'26"W	226.84	From a point on the road right-of-way to a point on the 750 ft NGVD 1929 contour elevation coincident with the right-of-way
270	271		237380.68	From a point on the 750 ft NGVD 1929 contour elevation to a point on an extension line coincident with the 750 ft NGVD 1929 contour elevation
271	272	S88°07'51"W	25.26	From a point on an extension line to a point on the parcel line (See Map G-2)
272	273	N81°43'04"W	128.81	From a point on the parcel line to a point
273	274	S38°35'28"E	772.43	From a point to a point
274	275	S00°54'34"E	60.63	From a point to a point
275	276	S11°54'25"E	80.12	From a point to a point
276	277	S55°29'29"E	176.03	From a point to a point
277	278	S75°34'45"E	109.21	From a point to a point
278	279	S88°27'07"E	111.85	From a point to a point

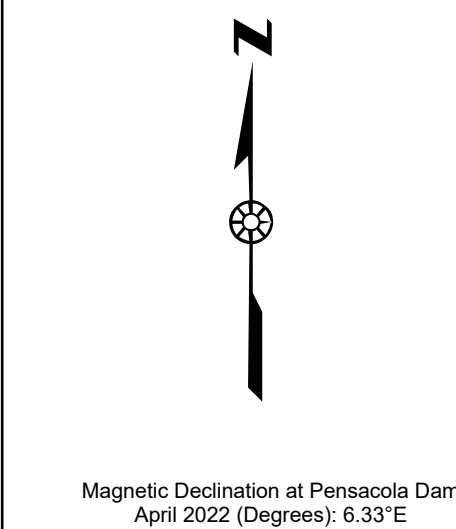
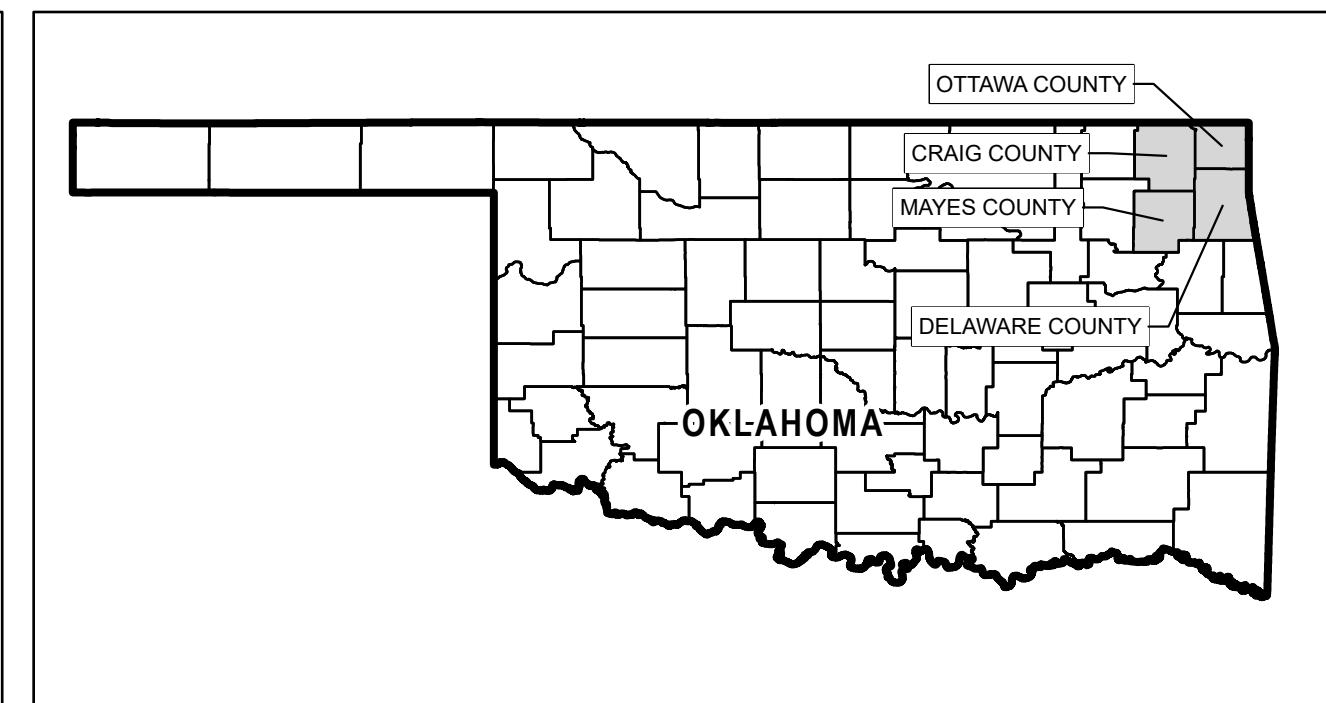
From Point	To Point	Direction	Distance (ft)	Notes
279	280	S21°42'09"E	18.81	From a point to a point
280	281	S62°25'22"W	35.70	From a point to a point
281	282	S27°25'22"E	53.61	From a point to a point
282	283	S30°34'45"E	231.67	From a point to a point
283	284	N59°12'24"E	108.21	From a point to a point
284	285	N33°46'32"E	144.38	From a point to a point
285	1 (POB1)	N44°47'29"E	59.05	From a point to Point 1 (POB1), a point on the approved 2014 Project Boundary

The following to be included in the project boundary

From Point	To Point	Direction	Distance (ft)	Notes
Sec Cor	12 (POB3)	N53°42'07"W	2366.11	From SE corner Section 25, T24N, R22E to Point 12 (POB3), a point on the 750 ft NGVD 1929 contour elevation (see Map G-7)
12 (POB3)	12 (POB3)		131.09	From a point 12 (POB3) to a point 12 (POB3) coincident with contour elevation 750 ft NGVD 1929
Sec Cor	31 (POB4)	N03°58'54"E	2092.34	From SE corner Section 35, T25N, R23E to Point 31 (POB4), a point on the 750 ft NGVD 1929 contour elevation (see Map G-15)
31 (POB4)	31 (POB4)		644.37	From a point 31 (POB4) to a point 31 (POB4) coincident with contour elevation 750 ft NGVD 1929
Sec Cor	56 (POB5)	N55°31'56"W	628.63	From SE corner Section 17, T25N, R25E to Point 56 (POB5), a point on the 750 ft NGVD 1929 contour elevation (see Map G-20)
56 (POB5)	56 (POB5)		549.40	From a point 56 (POB5) to a point 56 (POB5) coincident with contour elevation 750 ft NGVD 1929
Sec Cor	226 (POB8)	N58°08'41"E	5283.99	From SE Corner Section 25, T27N, R23E to Point 226 (POB8), a point on the 750 ft NGVD 1929 contour elevation (see Map G-25)
226 (POB8)	226 (POB8)		9458.51	From a point 226 (POB8) to a point 226 (POB8) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	231 (POB9)	S12°59'02"E	4045.19	From SE Corner Section 26, T27N, R23E to Point 231 (POB9), a point on the 750 ft NGVD 1929 contour elevation (see Map G-25)
231 (POB9)	231 (POB9)		4779.79	From a point 231 (POB9) to a point 231 (POB9) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	233 (POB10)	N76°20'45"E	940.51	From SE Corner Section 11, T25N, R23E to Point 233 (POB10), a point on the 750 ft NGVD 1929 contour elevation (see Map G-18)
233 (POB10)	233 (POB10)		707.54	From a point 233 (POB10) to a point 233 (POB10) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	235 (POB11)	S01°29'50"E	3808.41	From SE Corner Section 9, T25N, R23E to Point 235 (POB11), a point on the 750 ft NGVD 1929 contour elevation (see Map G-17)
235 (POB11)	235 (POB11)		1727.98	From a point 235 (POB11) to a point 235 (POB11) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	236 (POB12)	S47°24'26"E	3108.80	From SE Corner Section 9, T24N, R23E to Point 236 (POB12), a point on the 750 ft NGVD 1929 contour elevation (see Map G-11)
236 (POB12)	236 (POB12)		927.09	From a point 236 (POB12) to a point 236 (POB12) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	237 (POB13)	S01°07'41"E	4948.72	From SE Corner Section 18, T25N, R23E to Point 237 (POB13), a point on the 750 ft NGVD 1929 contour elevation (see Map G-17)
237 (POB13)	237 (POB13)		5823.80	From a point 237 (POB13) to a point 237 (POB13) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	243 (POB15)	S14°26'39"W	5926.47	From SE Corner Section 18, T25N, R23E to Point 243 (POB15), a point on the 750 ft NGVD 1929 contour elevation (see Map G-17)
243 (POB15)	243 (POB15)		500.03	From a point 243 (POB15) to a point 243 (POB15) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	245 (POB16)	S59°23'25"W	513.07	From NE Corner Section 13, T25N, R22E to Point 245 (POB16), a point on the 750 ft NGVD 1929 contour elevation (see Map G-16)
245 (POB16)	245 (POB16)		191.80	From a point 245 (POB16) to a point 245 (POB16) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	254 (POB17)	S72°40'13"W	861.17	From SE Corner Section 15, T25N, R22E to Point 254 (POB17), a point on the 750 ft NGVD 1929 contour elevation (see Map G-16)
254 (POB17)	254 (POB17)		671.37	From a point 254 (POB17) to a point 254 (POB17) coincident with 750 ft NGVD 1929 contour elevation
Sec Cor	257 (POB18)	N35°33'59"W	5793.77	From SE Corner Section 28, T24N, R22E to Point 257 (POB18), a point on the 750 ft NGVD 1929 contour elevation (see Map G-6)
257 (POB18)	257 (POB18)		1027.05	From a point 257 (POB18) to a point 257 (POB18) coincident with 750 ft NGVD 1929 contour elevation

The following to be excluded from the project boundary

From Point	To Point	Direction	Distance (ft)	Notes
Sec Cor	5 (POB2)	S11°56'41"E	1344.40	From SE Corner Section 11, T23N, R21E to Point 5 (POB2), a point on the approved 2014 Project Boundary line extension (see Map G-3) (Non-Project lands)
5	6		44.66	From a point on the approved 2014 Project Boundary line extension to a point on the approved 2014 Project Boundary
6	7		4568.07	From a point on the approved 2014 Project Boundary to a point on the parcel line
7	8		1276.45	From a point on the parcel line to a point on the approved 2014 Project Boundary coincident with parcel line
8	9		6190.05	From a point on the approved 2014 Project Boundary to a point on the 750 ft NGVD 1929 contour elevation coincident with the approved 2014 Project Boundary
9	5 (POB2)		16942.13	From a point on the 750 ft NGVD 1929 contour elevation to a point on the approved 2014 Project Boundary extension
Sec Cor	104 (POB6)	N76°51'16"W	2009.53	From SE Corner Section 21, T27N, R24E to Point 104 (POB6), a point on the 745 ft PD contour elevation (See Map G-28)
104 (POB6)	104 (POB6)		1209.96	From a point 104 (POB6) to a point 104 (POB6) coincident with contour elevation 745 ft PD (Non-Project lands)
Sec Cor	185 (POB7)	N48°38'25"E	2072.91	From SE Corner Section 34, T28N, R22E to Point 185 (POB7), a point on the parcel line (see Map G-30)
185 (POB7)	185 (POB7)		1957.47	From a point 185 (POB7) to a point 185 (POB7) coincident with the parcel line (Non-Project lands)
Sec Cor	242 (POB14)	N45°26'35"E	3758.58	From SW Corner Section 7, T24N, R23E to Point 242 (POB14), a point on the 750 ft NGVD 1929 contour elevation (see Map G-10)
242 (POB14)	242 (POB14)		1540.06	From a point 242 (POB14) to a point 242 (POB14) coincident with 750 ft NGVD 1929 contour elevation (Non-Project Lands)



Unless noted otherwise, the Project Boundary is based on the 750 ft NGVD 1929 contour elevation.

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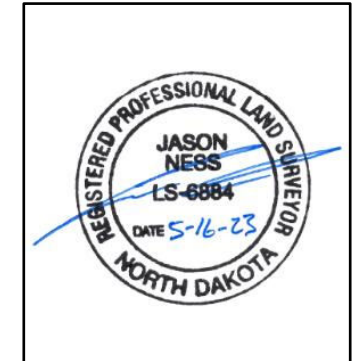
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PENSACOLA DAM HYDROELECTRIC PROJECT
FERC PROJECT No. 1494
NEOSHO AND GRAND RIVERS
OTTAWA, DELAWARE, MAYES, AND CRAIG COUNTIES
PROJECT BOUNDARY MAP

DATE: MAY 2023

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JASON NESS DATE

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