Rockton Hydroelectric Project FERC Project No. 2373

Dixon Hydroelectric Project FERC Project No. 2446

Applications for a Subsequent License for a Minor Water Power Project Less than 1.5 Megawatts

and

A New License for a Major Water Power Project Less than 5 Megawatts

Prepared for

Midwest Hydro, LLC and STS Hydropower, LLC Neshkoro, WI



Volume 2 of 4 Exhibits F and G

Volume 2 of 4 Exhibits F and G

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Rockton Exhibit F – General Design Drawings of Project Works	FR-1
Dixon Exhibit F – General Design Drawings of Project Works	FD-1
Rockton Exhibit G – Project Boundary Maps	GR-1
Dixon Exhibit G – Project Boundary Maps	GD-1

Rockton Hydroelectric Project FERC Project No. 2373

Exhibit F General Design Drawings of Project Works

Final License Application

Prepared for Midwest Hydro, LLC



August 2022

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- 1. Rockton Hydroelectric Project F-1 Plan of Control Works
- 2. Rockton Hydroelectric Project F-2 Section Through Control Works and Overflow Dam
- 3. Rockton Hydroelectric Project F-3 Upstream Elevation of Control Works
- 4. Rockton Hydroelectric Project F-4 Downstream Elevation of Powerhouse
- 5. Rockton Hydroelectric Project F-5 End Elevation of Powerhouse
- 6. Rockton Hydroelectric Project F-6 Sectional Elevation of Powerhouse
- 7. Rockton Hydroelectric Project F-7 Sectional Elevation of Powerhouse
- 8. Rockton Hydroelectric Project F-8 Plan of Generator Floor
- 9. Rockton Hydroelectric Project F-9 Power Canal and Sections

Rockton Exhibit F has been E-filed separately as Critical Energy Infrastructure Information

Dixon Hydroelectric Project FERC Project No. 2446

Exhibit F General Design Drawings of Project Works

Final License Application

Prepared for STS Hydropower, LLC



August 2022

- 1. Dixon Hydroelectric Project F-1 Overall Project Plan
- 2. Dixon Hydroelectric Project F-2 Powerhouse Plan, Elevation, and Section
- 3. Dixon Hydroelectric Project F-3 Spillway, Forebay Wall, Fender Wall Elevation and Sections

Dixon Exhibit F has been E-filed separately as Critical Energy Infrastructure Information

Rockton Hydroelectric Project FERC Project No. 2373

Exhibit G Project Boundary Maps

Final License Application

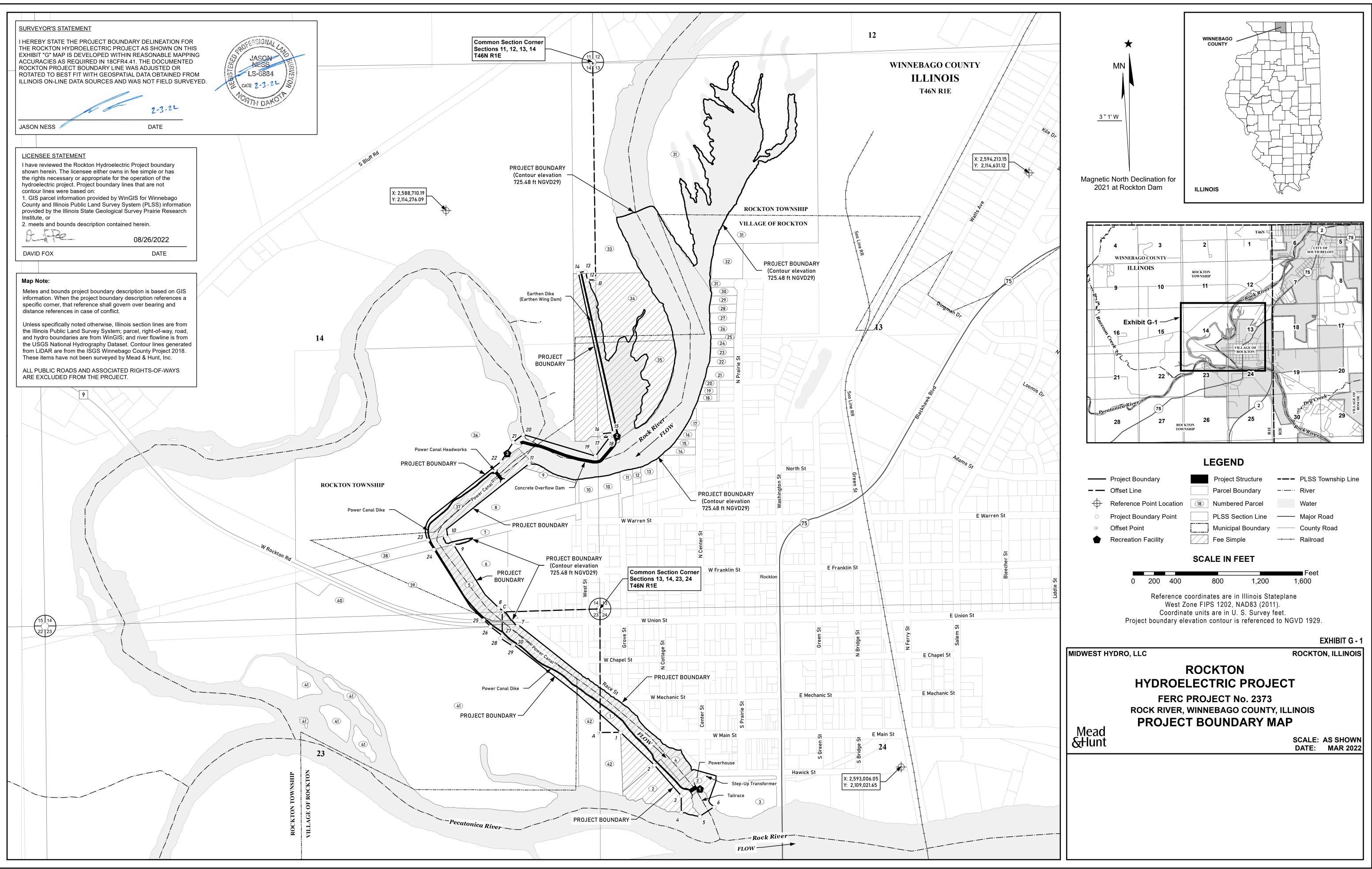
Prepared for

Midwest Hydro, LLC



August 2022

- 1. Rockton Project Boundary Map G-1
- 2. Rockton Project Boundary Map G-2 (Land Ownership, Course, & Recreation Site Tables)



UMBERED PARCEL LAND OWNERSHIP TABLE				
MAP ID	PARCEL ID	OWNER	OWNERSHIP TYPE	
1	03-24-108-002	MIDWEST HYDRO INC	LICENSEE	
2	03-24-108-003	MIDWEST HYDRO INC	LICENSEE	
3	03-24-176-002	VILLAGE OF ROCKTON ILLINOIS	VILLAGE	
4	03-14-452-003	MIDWEST HYDRO INC	LICENSEE	
5	03-14-452-003	MIDWEST HYDRO INC	LICENSEE	
6	03-14-476-001	RANDY DOUGLAS & SUE ANN PALM	PRIVATE	
7	03-14-428-003	ROCKTON TOWNSHIP CEMETERY	TOWNSHIP	
8	03-14-428-002	ROCKTON TOWNSHIP	TOWNSHIP	
9	03-14-428-001	NORTH AMERICAN HYDRO INC	LICENSEE	
10	03-13-351-003	ROCKTON TOWNSHIP	TOWNSHIP	
11	03-13-352-010	MATTHEW D & ALYSSA M HALL	PRIVATE	
12	03-13-352-002	DIANA WILLIAMS	PRIVATE	
13	03-13-352-003	ROCKTON BOAT CLUB INC	PRIVATE	
14	03-13-302-004	GREG & SHARON CROWLEY	PRIVATE	
15	03-13-302-003	BRUCE D & MARY ANNE MATHWICH	PRIVATE	
16	03-13-302-018	MICHAEL J & SUSANNE M PISANO	PRIVATE	
17	03-13-302-019	PATRICIA DAVEY	PRIVATE	
18	03-13-326-007	RONALD L & MARJORIE BROWN	PRIVATE	
19	03-13-326-006	RONALD L & MARJORIE BROWN	PRIVATE	
20	03-13-326-005	FRED BLACK	PRIVATE	
21	03-13-326-004	GREGORY S & ERIN A KLADAR	PRIVATE	
22	03-13-326-003	BARBARA M TRUSTEE & RICHARD J CALVETTE	PRIVATE	
23	03-13-326-002	ANTHONY J & KRISTINA M SCHAFFER	PRIVATE	
24	03-13-326-001	MICHAEL D & ROXANN ARMSTRONG	PRIVATE	
25	03-13-177-010	MICHAEL D & ROXANN ARMSTRONG	PRIVATE	
26	03-13-177-009	SHELBY BOGDAN	PRIVATE	
27	03-13-177-008	JOSEMINA BAUN & WARREN L HICKMAN	PRIVATE	
28	03-13-177-004	KYLE NICHOLAS KRICK	PRIVATE	
29	03-13-177-003	MARK & NICOLE ALCORN	PRIVATE	
30	03-13-177-002	THOMAS M & MARY K PETERSON	PRIVATE	
31	03-13-126-001	LUBRIZOL HOLDING INC	PRIVATE	
32	03-13-176-010	CODY E & LUISA DINUNZIO MIRARCHI WRIGHT	PRIVATE	
33	03-13-151-002	WINNEBAGO CO FOREST PRESERVE DISTRICT	COUNTY	
34	03-13-151-003	MIDWEST HYDRO INC	LICENSEE	

PROJECT BOUNDARY COURSE TABLE

NW Corner A	А				
		1,166.69	S00°04'51"E	From NW corner Section 24, T46N, R1E to Point A	
÷	1 (P0B)	191.34	N89°13'30"E		
1 (P0B)	2	443.64	S46°03'50"E		
2	3	385.88	S41°08'33"E		
3	4	157.91	S00°00'27"E		
4	5	182.19	S78°28'43"E		
5	6	159.19	N56°29'03"E		
6	7	2,753.09		Along parcel boundary of Parcels 2, 3, and 4 to a point at elevation contour 725.48 NGVD29	
7	8	261.02		Along elevation contour 725.48 NGVD29 to Point 8	
8	9	738.91		Along parcel boundary of Parcels 5 and 6 to a point at elevation contour 725.48 NGVD29	
9	10	557.96		Along elevation contour 725.48 NGVD29 to Point 10	
10	11	1,071.56		Along parcel boundary of Parcels 37, 38, 8, and 9 to a point at elevation contour 725.48 NGVD29	
11	12	19,202.83		Along elevation contour 725.48 NGVD29 to Point 12	
Metes and bo	ounds to a	rrive at 12			
NE Corner	В	2,054.08	S00°45'34"E	From NE corner Section 14, T46N, R1E to Point B	
В	12	77.24	S89°02'26"W		
12	13	83.86	N12°10'26"W		
13	14	68.02	S80°23'43"W		
14	15	1,546.00	S12°10'27"E		
15	16	110.71	S84°19'13"W		
16	17	33.90	S12°10'27"E		
17	18	71.53	N88°47'26"E		
18	19	222.97	S36°55'59"W		
19	20	712.67	N73°22'54"W		
20	21	117.91	S52°12'14"W		
21	22	214.48	S31°45'25"W		
22	23	1,079.99		Along parcel boundary of Parcels 36 and 37 to SW corner of Parcel 37	
23	24	105.46		Across Parcel 38, from SW corner of Parcel 37 to NW corner of Parcel 5	
24	25	818.06		Along parcel boundary of Parcels 5 and 39 to SE corner of Parcel 39	
25	26	88.61		Across W Rockton Rd Right-of-Way, from SE corner of Parcel 39 to NE-most corner of Parcel 41	
26	27	142.98		Along parcel boundary of Parcels 4, 40, and 41 to Point 27	
Metes and bo	Metes and bounds to arrive at 27				
NE Corner	С	923.08	S88°14'08"W	From NE corner Section 23, T46N, R1E to Point C	
С	27	223.83	S00°04'51"E		
27	28	29.00	S37°51'27"W		
28	29	135.86	S57°11'17"E		
29	30	17.05	N37°51'30"E		
30	1 (POB)	1,306.01		Along parcel boundary of Parcels 4, 41, 1, and 42 to Point 1 (POB)	

RECREATION SITE TABLE

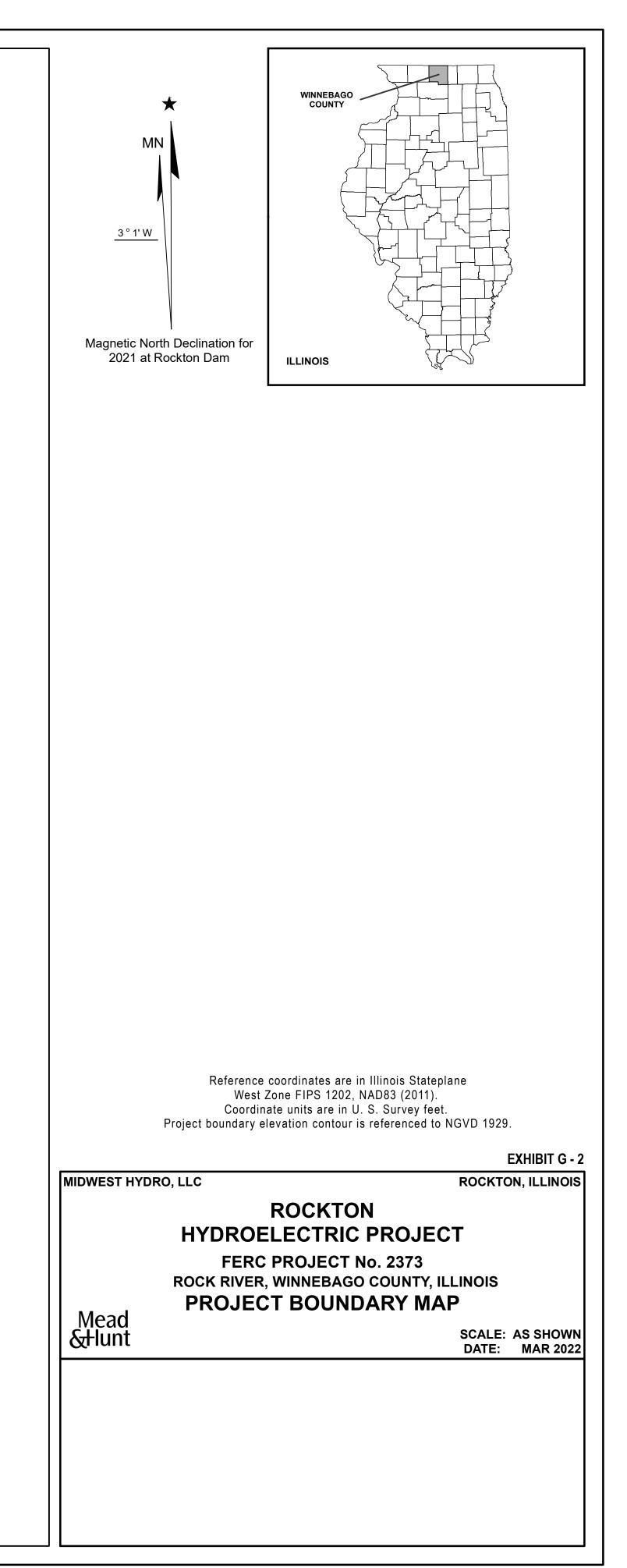
Site ID	Recreation Facility	Latitude	Longitude
1	Rockton Tailrace Bank Fishing Area	42° 27' 04.079" N	89° 04' 31.205" W
2	Rockton Dam Canoe Portage	42° 27' 37.089" N	89° 04' 41.077" W
B	Rockton Overflow Dam and Power Canal Bank Fishing Area	42° 27' 35.593" N	89° 04' 54.907" W

THE ROCKTON HYDROELECTRIC PROJECT AS SHOW EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABL ACCURACIES AS REQUIRED IN 18CFR4.41. THE DOCU ROCKTON PROJECT BOUNDARY LINE WAS ADJUSTE ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTA ILLINOIS ON-LINE DATA SOURCES AND WAS NOT FIEL	SURVEYOR'S STATEMENT I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE ROCKTON HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES AS REQUIRED IN 18CFR4.41. THE DOCUMENTED ROCKTON PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM ILLINOIS ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED. 2-3-22					
JASON NESS / DATE						
LICENSEE STATEMENT	Map Note:					
I have reviewed the Rockton Hydroelectric Project boundary shown herein. The licensee either owns in fee simple or has the rights necessary or appropriate for the operation of the hydroelectric project. Project boundary lines that are not contour lines were based on:	Metes and bounds project boundary description is based on GIS information. When the project boundary description references a specific corner, that reference shall govern over bearing and distance references in case of conflict.					
 GIS parcel information provided by WinGIS for Winnebago County and Illinois Public Land Survey System (PLSS) information provided by the Illinois State Geological Survey Prairie Research Institute, or meets and bounds description contained herein. 08/26/2022 	Unless specifically noted otherwise, Illinois section lines are from the Illinois Public Land Survey System; parcel, right-of-way, road, and hydro boundaries are from WinGIS; and river flowline is from the USGS National Hydrography Dataset. Contour lines generated from LiDAR are from the ISGS Winnebago County Project 2018. These items have not been surveyed by Mead & Hunt, Inc.					

DATE

DAVID FOX

ALL PUBLIC ROADS AND ASSOCIATED RIGHTS-OF-WAYS ARE EXCLUDED FROM THE PROJECT.



Dixon Hydroelectric Project FERC Project No. 2446

Exhibit G Project Boundary Maps

Final License Application

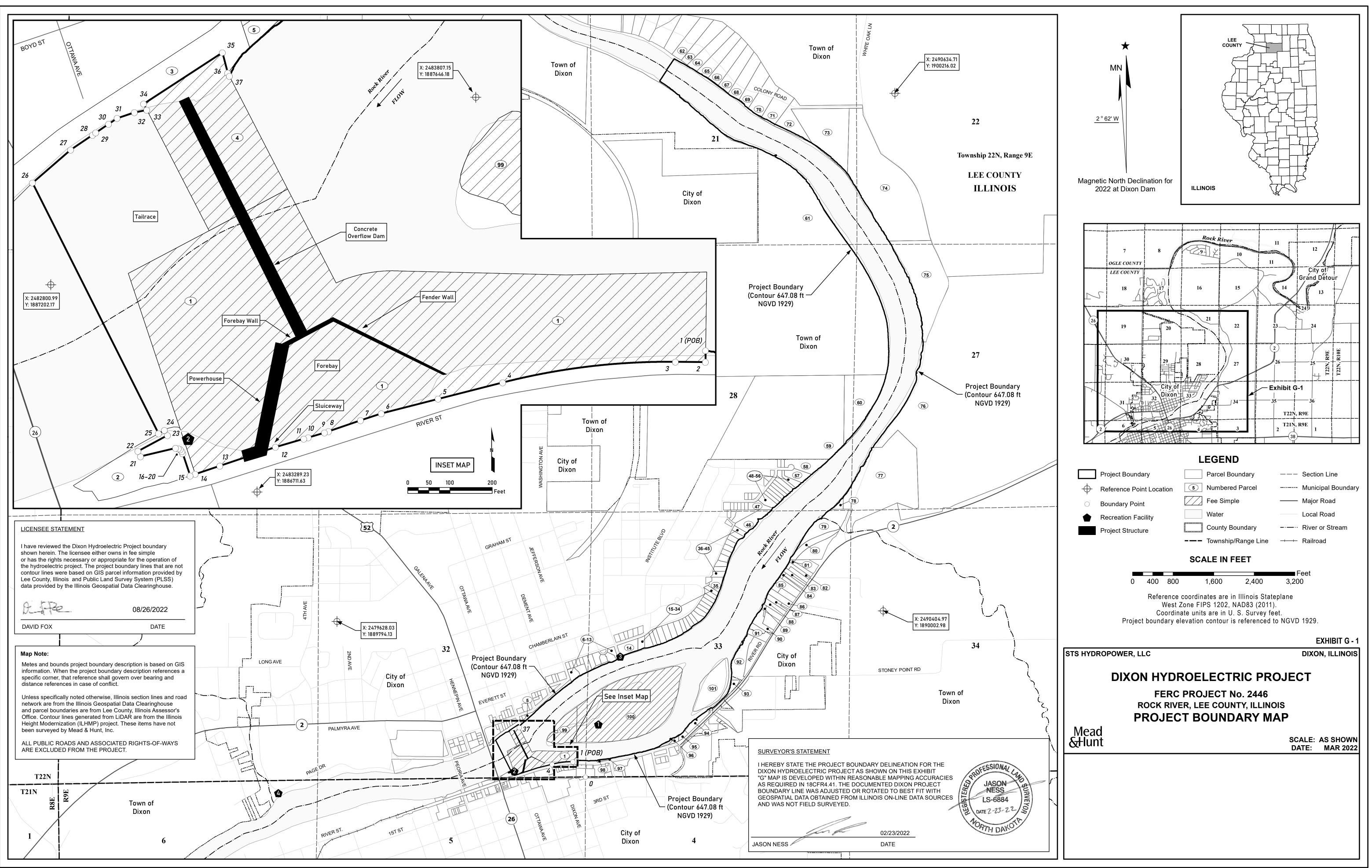
Prepared for

STS Hydropower, LLC



August 2022

- 1. Dixon Project Boundary Map G-1
- 2. Dixon Project Boundary Map G-2 (Land Ownership, Course, & Recreation Site Tables)



NUMBERED PARCEL LAND OWNERSHIP TABLE

/AP ID	PARCEL ID	OWNER	OWNERSH TYPE
1	70232478001	STS HYDROPOWER LTD	
2 3	70232478002 70232460020	DIXON CITY OF DIXON PARK DISTRICT	PUBLIC PUBLIC
4	70232460020	STS HYDROPOWER LTD	LICENSEE
5	70232476003	DIXON PARK DISTRICT	PUBLIC
6	70232435006	SIMPSON ERICE & HOLTON-SIMPSON KIMBERLYL	PRIVATE
7	70233302012		
8 9	70233302003 70233302004	HOFMANN FAMILY TRUST MOSS THEODORE L & MOSS GROVER Z	PRIVATE PRIVATE
<u> </u>	70233302004	BERGEMANN ERIC	PRIVATE
11	70233302010	DEETS DAVID K & JAN M	PRIVATE
12	70233302011	MCCLAIN NATHAN A & CALLI JO	PRIVATE
13	70233302008	NEISEWANDER TRUST TODD	PRIVATE
14	70233304003	CHERYL A MARSHALL TRUST DATED 6/8/2010 CHERYL A	PRIVATE
15	70233180002	MARSHALL TRUSTEE CURIA JAMIE R	PRIVATE
		RADANDT 2014 IRREVOCABLE INCOME ONLY TRUST	
16	70233180003	JACQUELINEANN	PRIVATE
17	70233180004	SAUK VALLEY BANK & TRUST CO., TRUSTEE TRUST	PRIVATE
18	70233180005	#855SVLT013 MARSHALL JESSI A	PRIVATE
10	70233180003	CURIA AMANDA J & JONATHAN T HINKEY	PRIVATE
20	70233180007	MARSHALL FAMILY 1112 LAND TRUST	PRIVATE
21	70233180025	HERTENSTEIN TRUST SARA A & THOMPSON TRUST JAN J	PRIVATE
22	70233180026	CRISHAM FAMILY TRUST	PRIVATE
23	70233180011	JULIN RHONDA L & JULIN RONALD	PRIVATE
24 25	70233180012 70233180013	GLASER MARJORIE ANN FISCHER SHIRLEY	PRIVATE PRIVATE
25	70233180013	NELSON KAREN	PRIVATE
27	70233180014	NAGYJOHN & DEBRA	PRIVATE
28	70233180016	YOUNTKATHRYN E	PRIVATE
29	70233180017	PIPER RYBAK LIVING TRUST DIANNE	PRIVATE
30	70233180018	SHAW J PETER & JAMIE	
31 32	70233180019 70233180020	MILLER TRUST JOSEPH L BURGER JOANNA I AND JEFFREY I	PRIVATE PRIVATE
32	70233180020	DILLABOUGHANTHONY	PRIVATE
34	70233180022	CLEMENS ALAN D & AMY JO	PRIVATE
35	70233205012	JOHNSON TRUST ARTHUR E	PRIVATE
36	70233205011	FORD EDWARD R & LAURA P	PRIVATE
37	70233205010		
38 39	70233205009 70233205008	ATKINSON MITCHELLL NICHOLS NANCY A	PRIVATE PRIVATE
39 40	70233205008	THOMPSON ROBERT J & THOMPSON MICHELLE M	PRIVATE
41	70233205007	SHAW ANDREW J & ANGELA G	PRIVATE
42	70233205013	TRUST 65 777	PRIVATE
43	70233205004	MC FETRIDGE JANE M & MC LEAN DONALD	
44	70233205003	LESAGE TRUST JOAN M	
45 46	70233205002 70233205001	OVERCASH KAREN L KASTNER JASON & KAREY	PRIVATE PRIVATE
40	70233205001	HAMPTON BROTHERS INC	PRIVATE
48	70228456011	HAMPTON BROTHERS INC	PRIVATE
49	70228456012	HAMPTON BROTHERS INC	PRIVATE
50	70228456013	HAMPTON BROTHERS INC	
51 52	70228456014	HAMPTON BROTHERS INC	
52 53	70228456015	HAMPTON BROTHERS INC HAMPTON BROTHERS INC	PRIVATE PRIVATE
55 54	70228456016	HAMPTON BROTHERS INC	PRIVATE
55	70228456019	HAMPTON BROTHERS INC	PRIVATE
56	70228456018	HAMPTON BROTHERS INC	PRIVATE
57	70228456020	HAMPTON BROTHERS INC	
58 59	70228456021	HAMPTON BROTHERS INC KELLER BRUCE E	PRIVATE PRIVATE
59 60	70228401001 70227300001	KELLER BRUCE E	PRIVATE
61	70227300001	DIXON PARK DISTRICT	PUBLIC
62	70221100010	GILKEY CHARLES C & GILKEY PATRICIA L	PRIVATE
	70221100011	FRIEMOTH SANDRA KAY	PRIVATE
64	70221100012		PRIVATE
65	70221200005	STEVENS ROBERT D & STEVENS GERALDINE A	
66 67	70221200006 70221200007	STEVENS ROBERT D & STEVENS GERALDINE A SHEFFLER JERRY L & JILL R JR	PRIVATE PRIVATE
67 68	70221200007	SCHIER ARLYN & SCHIER KATHLEEN	PRIVATE
69	70221200009	BLACKBOURN DARLA	PRIVATE
70	70221200010	WADSWORTH DARCY & WADSWORTH SANDRA A	PRIVATE
71	70221200011	GAVINO FLORDELIZA	
72 73	70221200012	GILKEY CHARLES SCHMIDT TRUST GLENDA M	PRIVATE PRIVATE
73 74	70221400001 70222300001	SCHMIDT TRUST GLENDA M SCHMIDT TRUST GLENDA M	PRIVATE
75	70222300001	SCHMIDT TRUST GLENDA M	PRIVATE
76	70227200007	SOUTHFIELD CORPORATION	PRIVATE
77	70227300009	ST. BARBARA CEMENT INC.	PRIVATE
78	UNKNOWN		
79	70233226002	ST. BARBARA CEMENT INC.	
80 81	UNKNOWN		
81	70233227031	GURLEY SHERRY F & GURLEY RONALD R	PRIVATE
83	70233227031	BUTLER STEVEN L & BUTLER ROBIN A	PRIVATE
84	UNKNOWN		UNKNOW
85	70233227027	COMMONS JOHN W & COMMONS PATSY A	PRIVATE
86	70233227029		
87 88	70233227028	SHIPPERT EDWARD & SHIPPERT DAWN	
88 89	70233227033 70233252013	DONALDSON EDWARD M KONING TRUST MATTHEW D	PRIVATE PRIVATE
89 90	70233252013	HALL ALICIA K & HALL WILLIAM C	PRIVATE
91	70233252011	ULLRICH LEON W	PRIVATE
92	70233402008	RAYNOR MANUFACTURING CO	PRIVATE
93	UNKNOWN		UNKNOW
94	70233379002		UNKNOW
95	70233379001		
96 97	70233351003	STS HYDROPOWER LTD	
97 98	70233352014 70233352028	WARNER H C DARK LAND TRUST #1	PRIVATE PRIVATE
98 99	70233352028	STS HYDROPOWER LTD	LICENSE
100	70233351003	STS HYDROPOWER LTD	LICENSEE
	70233326001	DIXON PARK DISTRICT	PUBLIC

PROJECT BOUNDARY COURSE TABLE

From Point	To Point	Distance (feet)	Bearing	Radius (feet)	Chord Distance (feet)	Description
0	1 (POB)	372.90	N28°48'18"W			From SE corner Section 32, T22N, R09E to 1 (POB)
1 (POB)	2	27.06	S00°46'11"W			Along parcel line
2	3	70.94	N89°22'44"W			Along parcel line
3	4	Arc Length 413.24	Chord Bearing S83°09'50''W	1,587.51	412.08	Curve along parcel line
4	5	157.86	S75°42'16"W			Along parcel line
5	6	138.59	S75°42'17"W			Along parcel line
6	7	52.08	S71°47'04"W			Along parcel line
7	8	80.14	S70°55'31"W			Along parcel line
8	9	9.99	S70°56'50''W			Along parcel line
9	10	40.01	S73°41'04"W			Along parcel line
10	11	10.99	S73°40'34"W			Along parcel line
11	12	70.02	S73°41'07"W			Along parcel line
12	13	138.99	S71°22'47"W			Along parcel line
13	14	61.59	S71°22'25"W			Along parcel line
14	15	12.62	S71°22'49"W			Along parcel line
15	16	55.72	N18°24'31"W			
16	17	5.37	N22°41'03"W			
17	18	5.64	N37°38'50"W			
18	19	5.36	N64°39'10"W			
19	20	6.63	N80°31'47"W			
20	21	85.28	S76°48'27"W			
21	22	13.58	N26°48'19"W			
22	23	79.50	N61°44'58"E			
23	24	13.97	N31°03'38"W			
24	25	16.11	S60°58'52"W			Along parcel line
25	26	664.38	N26°41'16"W			To a point along parcel line (400-foot offset downstream of dam)
26	27	119.61	N49°02'06"E			Along parcel line
27	28	62.39	N55°50'38"E			Along parcel line
28	29	9.57	N55°43'44"E			Along parcel line
29	30	36.38	N55°45'51"E			Along parcel line
30	31	24.74	N55°45'28"E			Along parcel line
31	32	43.16	N71°33'38"E			Along parcel line
32	33	29.91	N78°51'34"E			Along parcel line
33	34	16.36	N27°17'06"W			Along parcel line
34	35	222.50	N56°55'58"E			Along parcel line
35	36	50.01	S14°45'32"E			Along parcel line
36	37	8.54	S27°17'04"E			Along parcel line
37	1 (POB)	41,155.94				Along elevation contour 647.08 ft NGVD 1929 to 1 (POB)

RECREATION FACILITY TABLE

Site ID	Recreation Facility	Latitude	Longitude
Û	Van Arnum's Island (Dixon Nature Preserve)	41° 50' 51.483" N	89° 28' 33.227" W
2	Tailwater Fishing Area	41° 50' 42.481" N	89° 28' 55.239" W
B	Canoe Portage Take-Out	41° 51' 04.664" N	89° 28' 27.338" W
4	Canoe Portage Put-in	41° 50' 38.586" N	89° 29' 56.772" W

Recreation Facility Notes:

Site ID 1 - Van Arnum's Island is owned by the Licensee and leased to the Dixon Park District. Site ID 2 - Tailwater Fishing Area is a FERC-approved Project recreation facility. Site ID 3 - Canoe Portage Take-Out is a non-project recreation facility and is shown on Map G-1 for reference only.

Site ID 4 - Canoe Portage Put-In is a non-project recreation facility and is shown on Map G-1 for reference only.

SURVEYOR'S STATEMENT

I HEREBY STATE THE PROJECT BOUNDARY DELINEATION FOR THE DIXON HYDROELECTRIC PROJECT AS SHOWN ON THIS EXHIBIT "G" MAP IS DEVELOPED WITHIN REASONABLE MAPPING ACCURACIES AS REQUIRED IN 18CFR4.41. THE DOCUMENTED DIXON PROJECT BOUNDARY LINE WAS ADJUSTED OR ROTATED TO BEST FIT WITH GEOSPATIAL DATA OBTAINED FROM ILLINOIS ON-LINE DATA SOURCES AND WAS NOT FIELD SURVEYED.



JASON NESS 🖊

LICENSEE STATEMENT

I have reviewed the Dixon Hydroelectric Project boundary shown herein. The licensee either owns in fee simple or has the rights necessary or appropriate for the operation of the hydroelectric project. The project boundary lines that are not contour lines were based on GIS parcel information provided by Lee County, Illinois and Public Land Survey System (PLSS) data provided by the Illinois Geospatial Data Clearinghouse.

0-fre

08/26/2022

DATE

02/23/2022

DATE

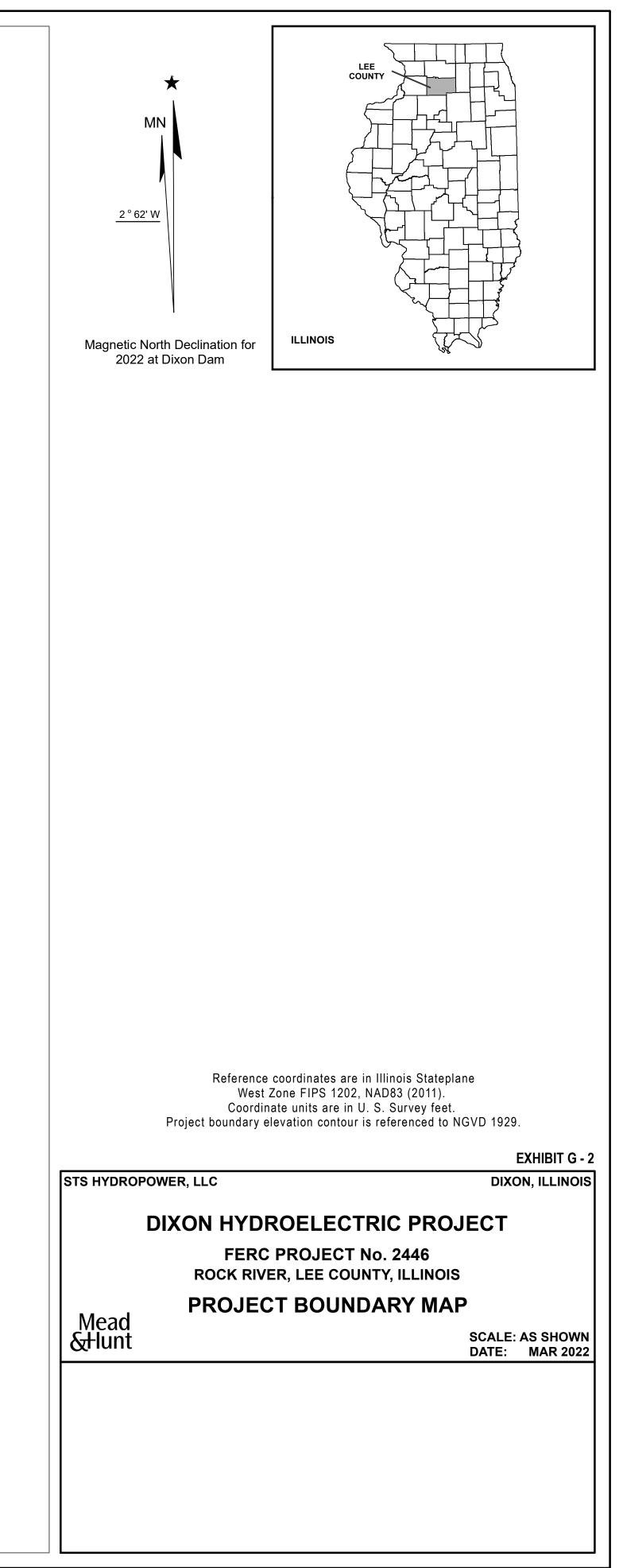
Map Note:

DAVID FOX

Metes and bounds project boundary description is based on GIS information. When the project boundary description references a specific corner, that reference shall govern over bearing and distance references in case of conflict.

Unless specifically noted otherwise, Illinois section lines and road network are from the Illinois Geospatial Data Clearinghouse and parcel boundaries are from Lee County, Illinois Assessor's Office. Contour lines generated from LiDAR are from the Illinois Height Modernization (ILHMP) project. These items have not been surveyed by Mead & Hunt, Inc.

ALL PUBLIC ROADS AND ASSOCIATED RIGHTS-OF-WAYS ARE EXCLUDED FROM THE PROJECT.



P-2446-XXX