

**RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
BOARD OF TRUSTEES MEETING
TUESDAY, FEBRUARY 15, 2022
9:00 AM
ENGINEER'S REPORT**

I. AB 360 DELTA LEVEE SUBVENTIONS PROGRAM

- A. Review the recent San Joaquin River Setback Levee Erosion Repairs.

EXHIBIT A: Monthly Progress Payment No. 1 & Final with Dutra Construction dated February 9, 2022.

EXHIBIT B: Photo summary from KSN Inc. Daily Field Reports Saturday January 29, 2022

II. DISTRICTS DRAINAGE PUMP STATIONS

- A. Review status to replace motor on Pump No 2.

EXHIBIT C: KSN Inc. File Memorandum dated February 10, 2022

Exhibit A

MONTHLY PROGRESS PAYMENT

Job No. 1110-9022-03-001

Date: February 9, 2022

RECLAMATION DISTRICT NO. 1601, TWITCHELL ISLAND

JOB: SJ River Setback Levee Erosion Repairs

CONTRACT NUMBER: 1601-01-27-22-01

PAYMENT ESTIMATE No. 1 - Final

CONTRACTOR: The Dutra Group
2350 Kerner Blvd., Suite 200
San Rafael, CA 94901

FOR WORK COMPLETED BY: January 31, 2022

ITEM	DESCRIPTION	CONTRACT QUANTITY	UNIT PRICE	TOTAL PRICE	PRICE TO DATE	JOB % of BID QUANT	BILLED TO DATE
1	18" Minus Riprap Material	1	\$11,000.00	\$11,000.00	11000.000	100.0%	\$11,000.00

Total \$11,000.00

PAYMENT #1 - AMOUNT DUE:

\$11,000.00

SUPPORTING DOCUMENTATION: The Dutra Group Progress Payment Estimate No. 1

RECOMMENDED FOR PAYMENT:


Jeffrey A. Mueller P.E. - Project Engineer

DISTRICT ENGINEER: KJELDTSEN, SINNOCK & NEUDECK, INC.
CIVIL ENGINEERS & LAND SURVEYORS

**THE DUTRA GROUP
PROGRESS PAYMENT ESTIMATE NO. 1**

Submitted To:
Jeff Mueller
KSN, Inc.
711 N Pershing Ave.
Stockton, CA 95201

Project Name: SJ River Setback Levee Erosion Repairs Twitchell
Project Number: 1110-9022-03-001

Invoice No: 2122202-01
Bill Date: 2/3/2022

For Period Beginning: 01/29/2022
For Period Ending: 01/29/2022

Bid Item	Description of Work	Contract Quantity	Unit Price	UOM	Contract Amount	This Period		Previous Period		Total To Date	
						Qty	Total \$	Qty	Total \$	Qty	Total \$
01	18" MINUS RIPRAP	1	\$ 11,000.00	LS	\$ 11,000.00	1.0	\$ 11,000.00	0	\$ -	1	\$ 11,000.00
Total Gross Earnings:						\$	11,000.00	\$	-	\$	11,000.00
						Retention		Less Previous		Net Due	
						\$ 550.00		\$ -		\$ 10,450.00	

I hereby certify that to the best of my knowledge and belief, that:

- (1) The amounts requested in this progress invoice no. 2 are only for performance in accordance with the specifications, terms, and conditions of the contract;
- (2) Please remit payment to:

THE DUTRA GROUP
2350 Kerner Boulevard, Suite 200
San Rafael, CA 94901

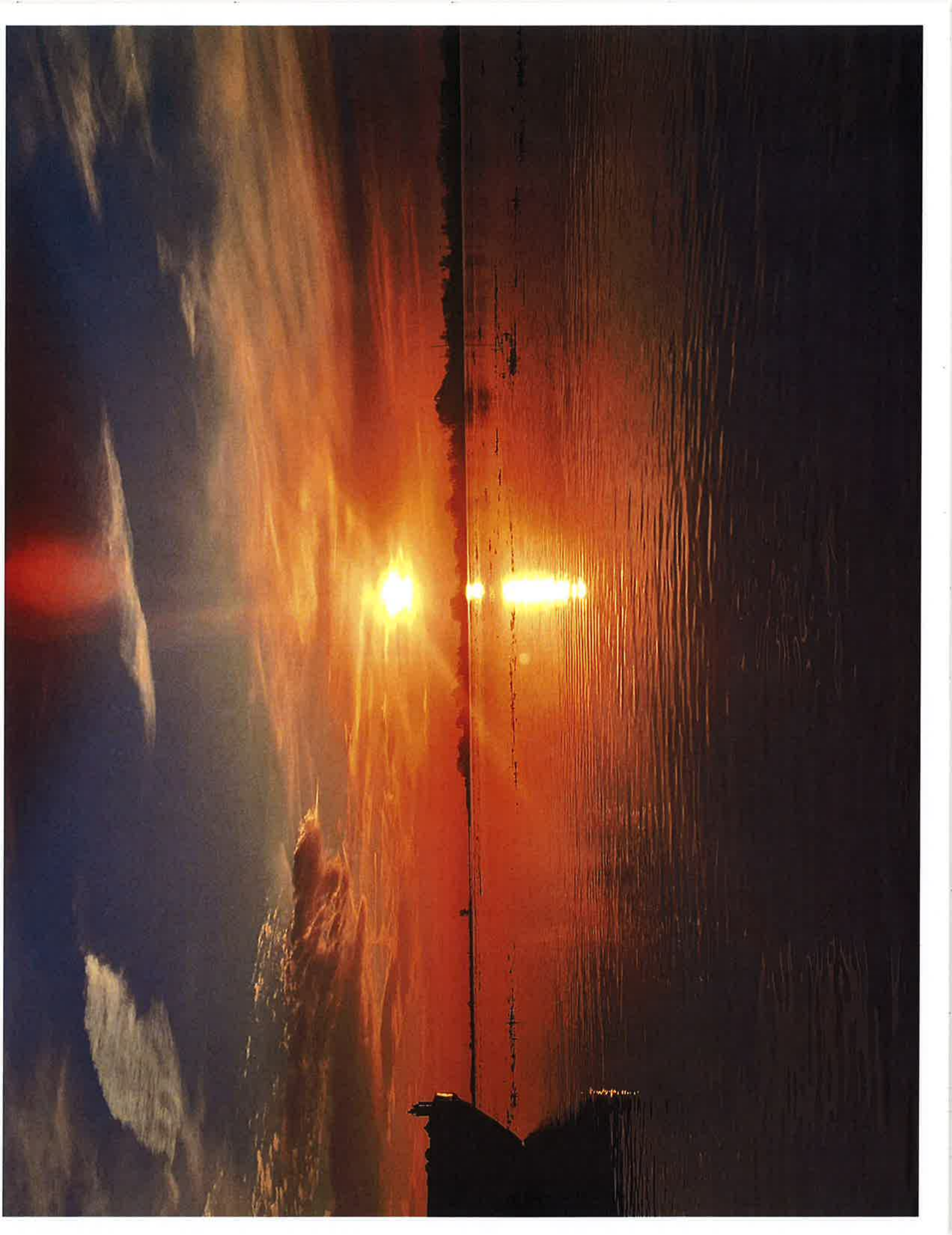
Jacob Burke

Signature

Jacob Burke, Project Engineer
Name, Title

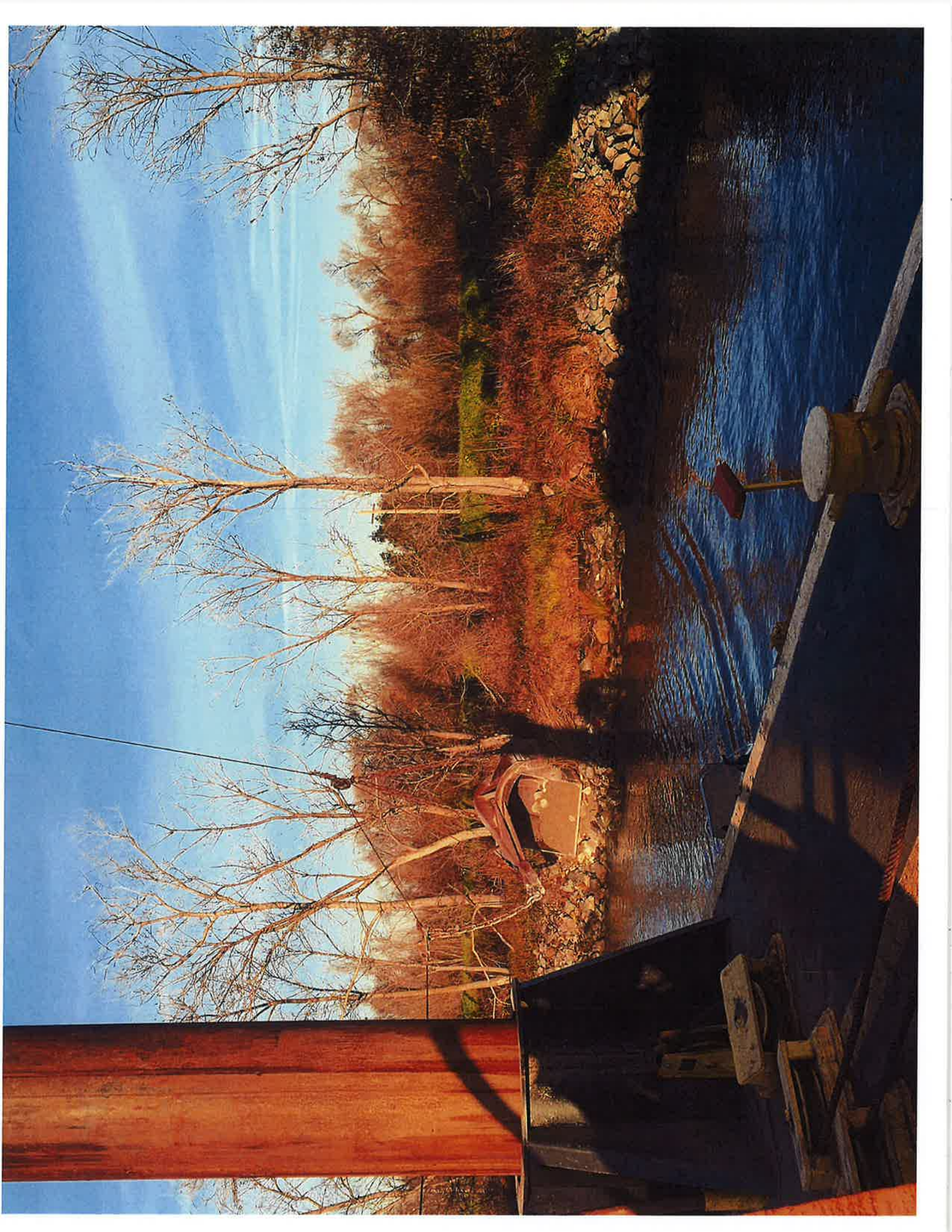
2/9/2022
Date

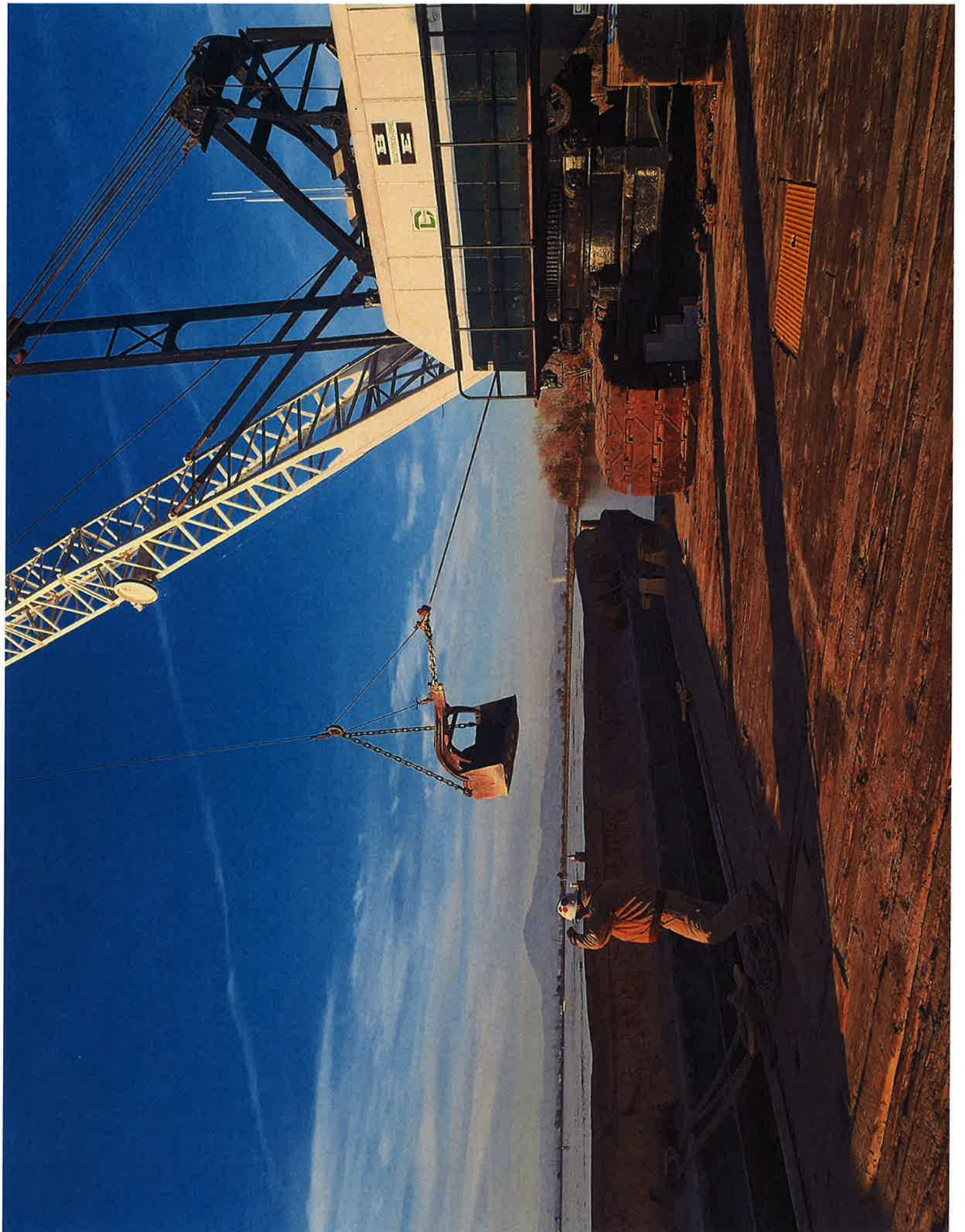
Exhibit B

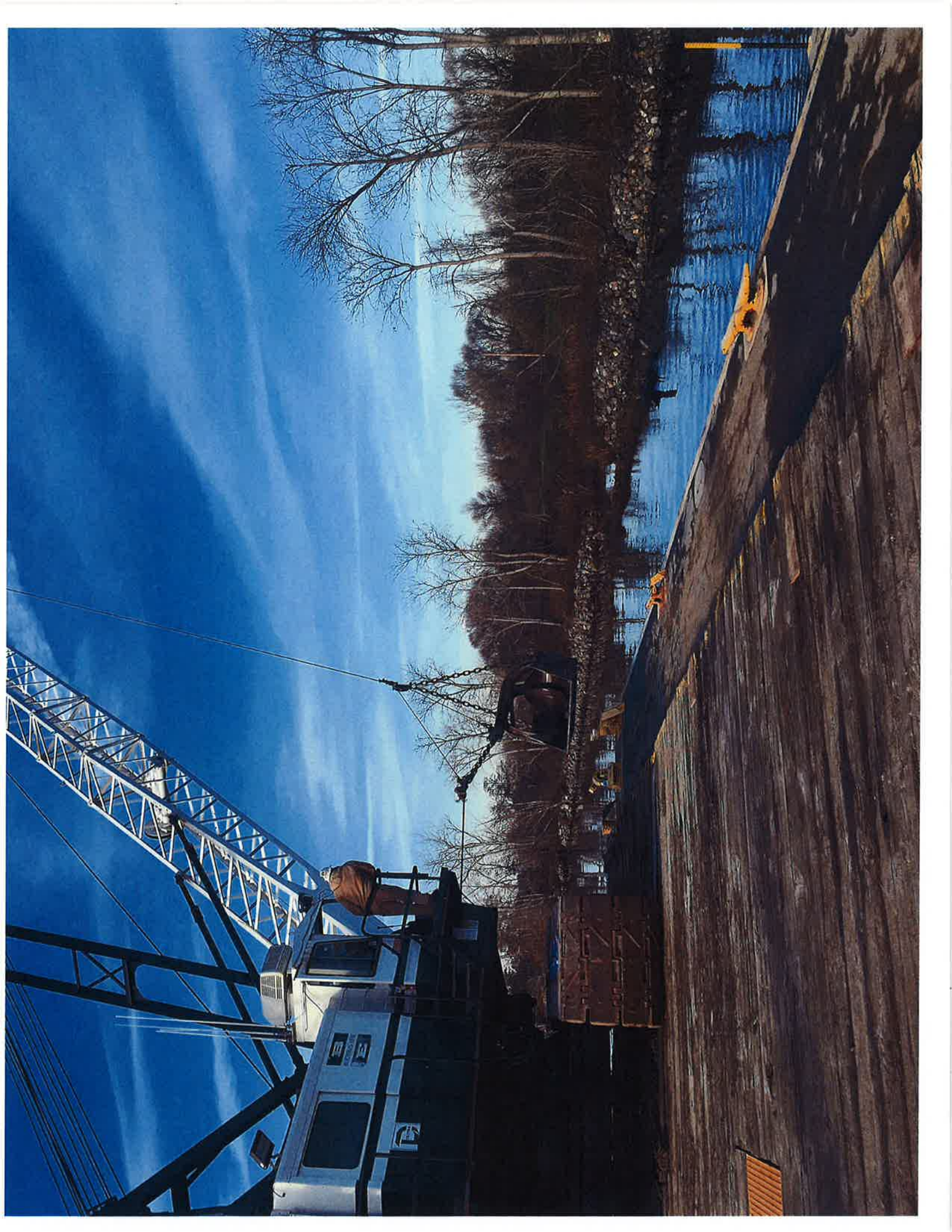


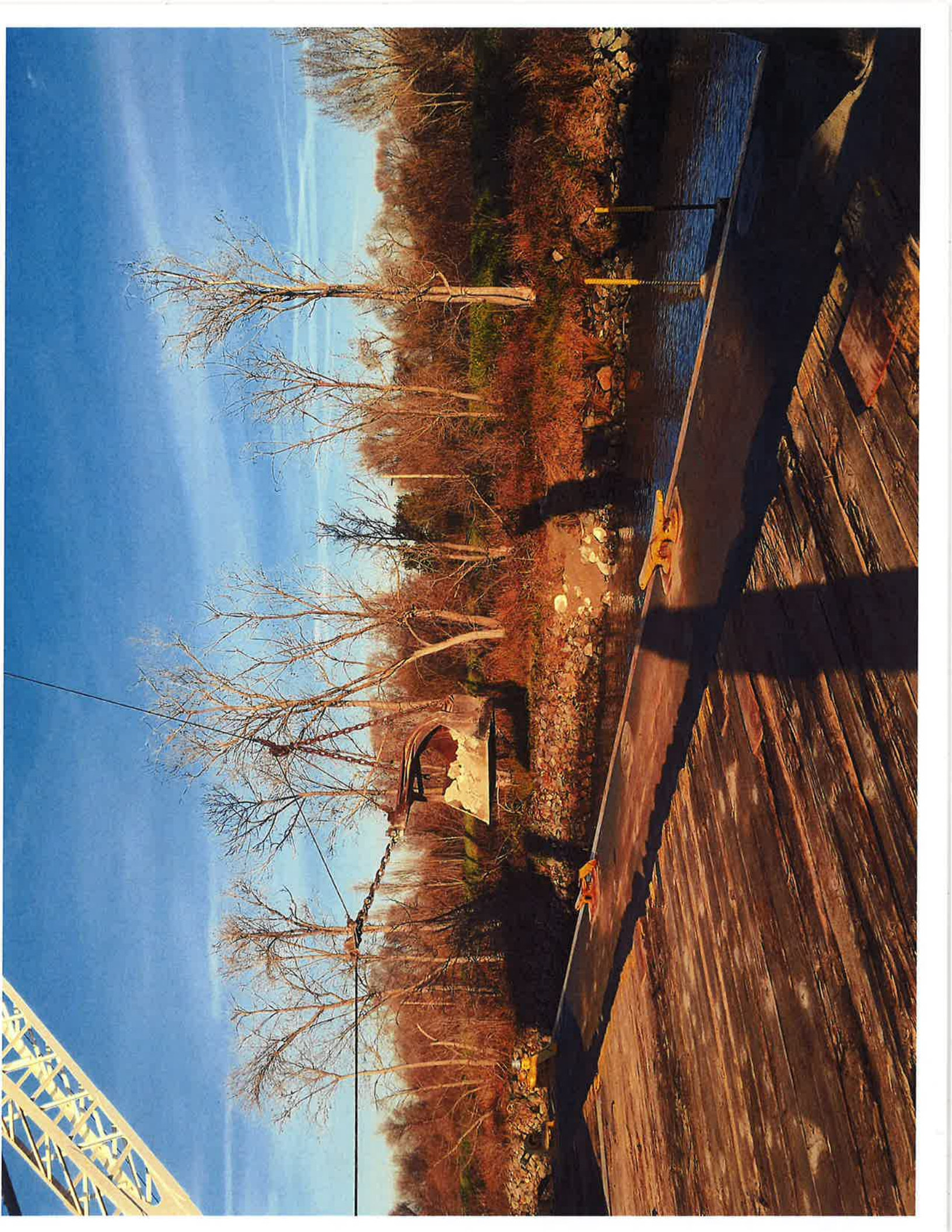


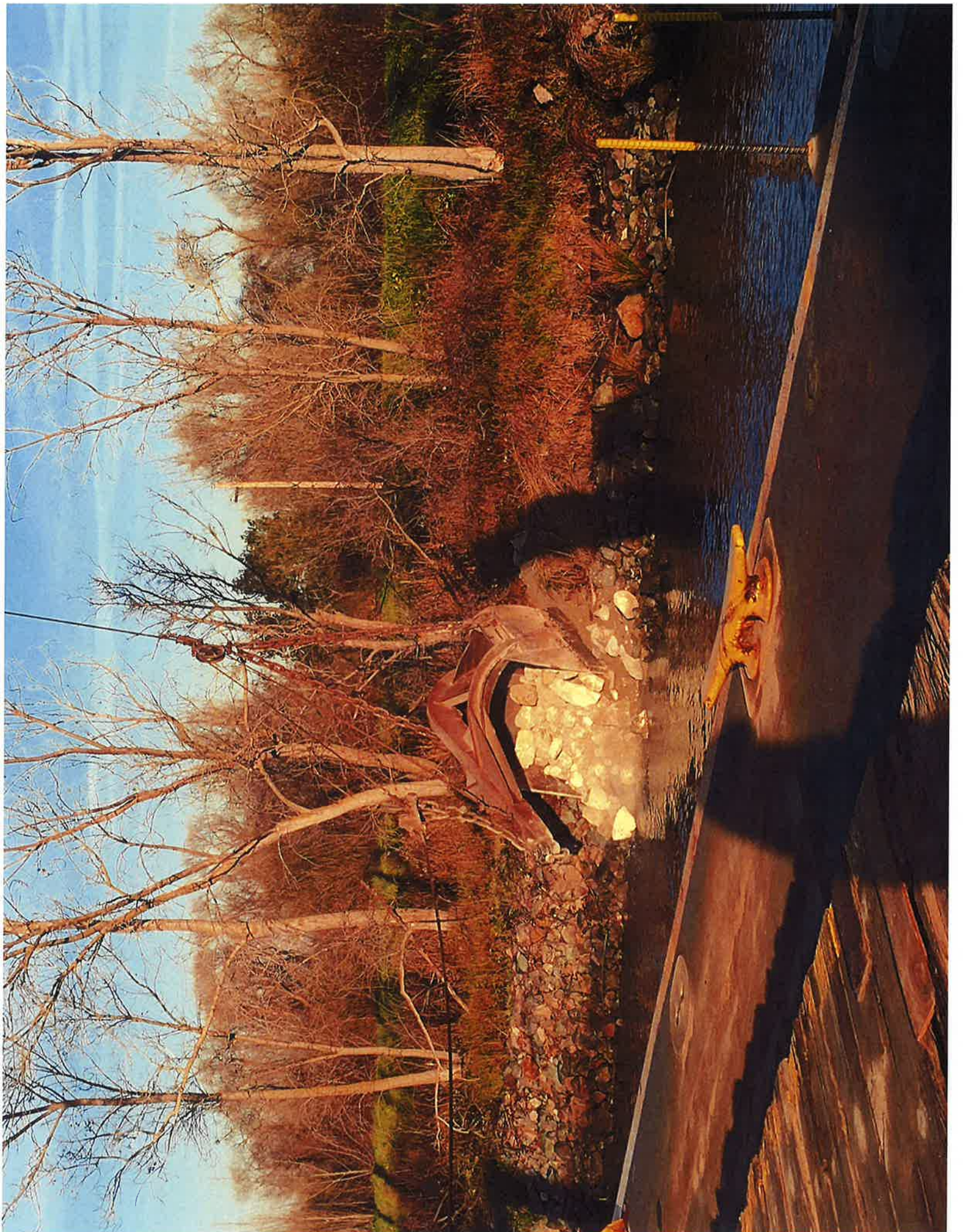


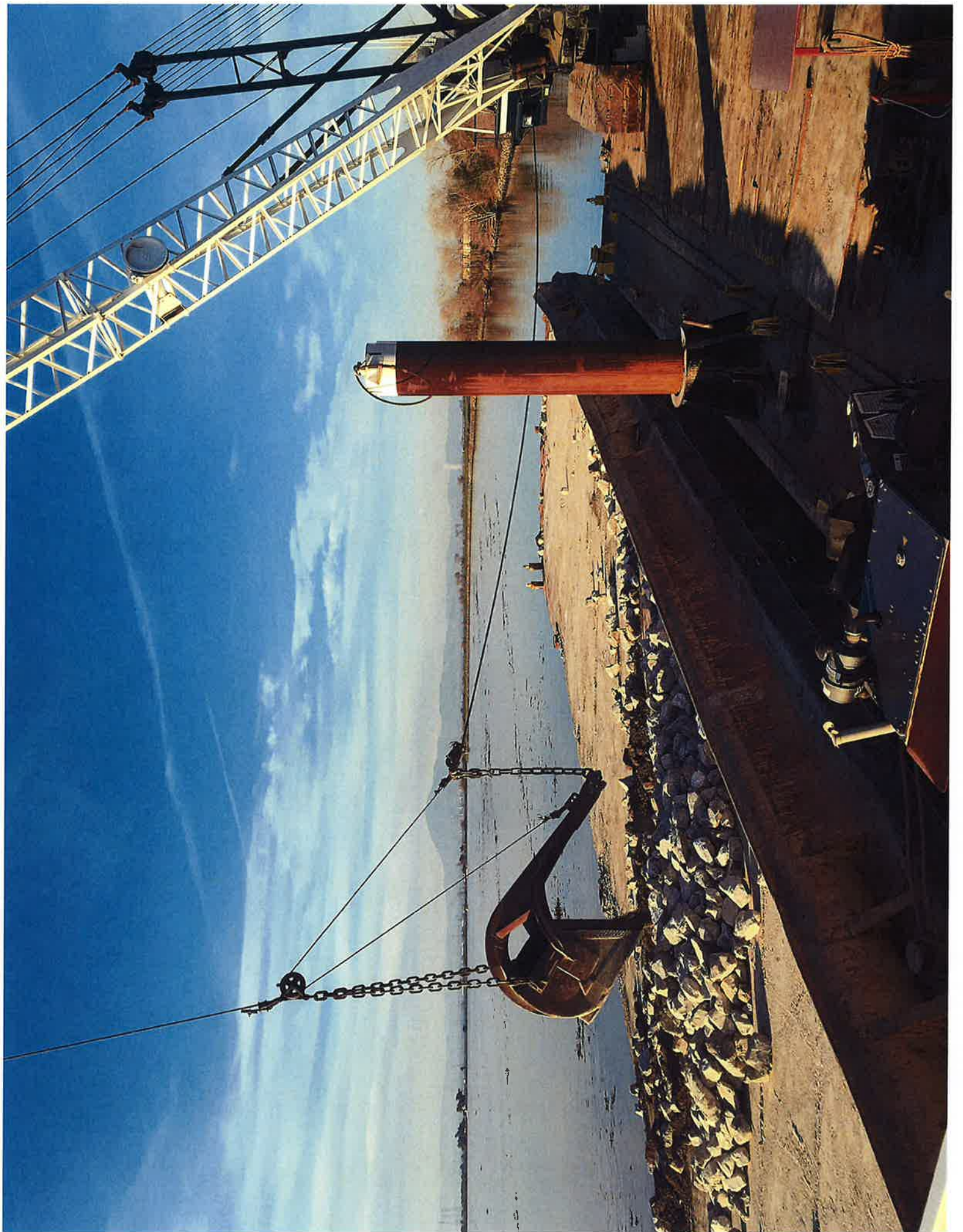


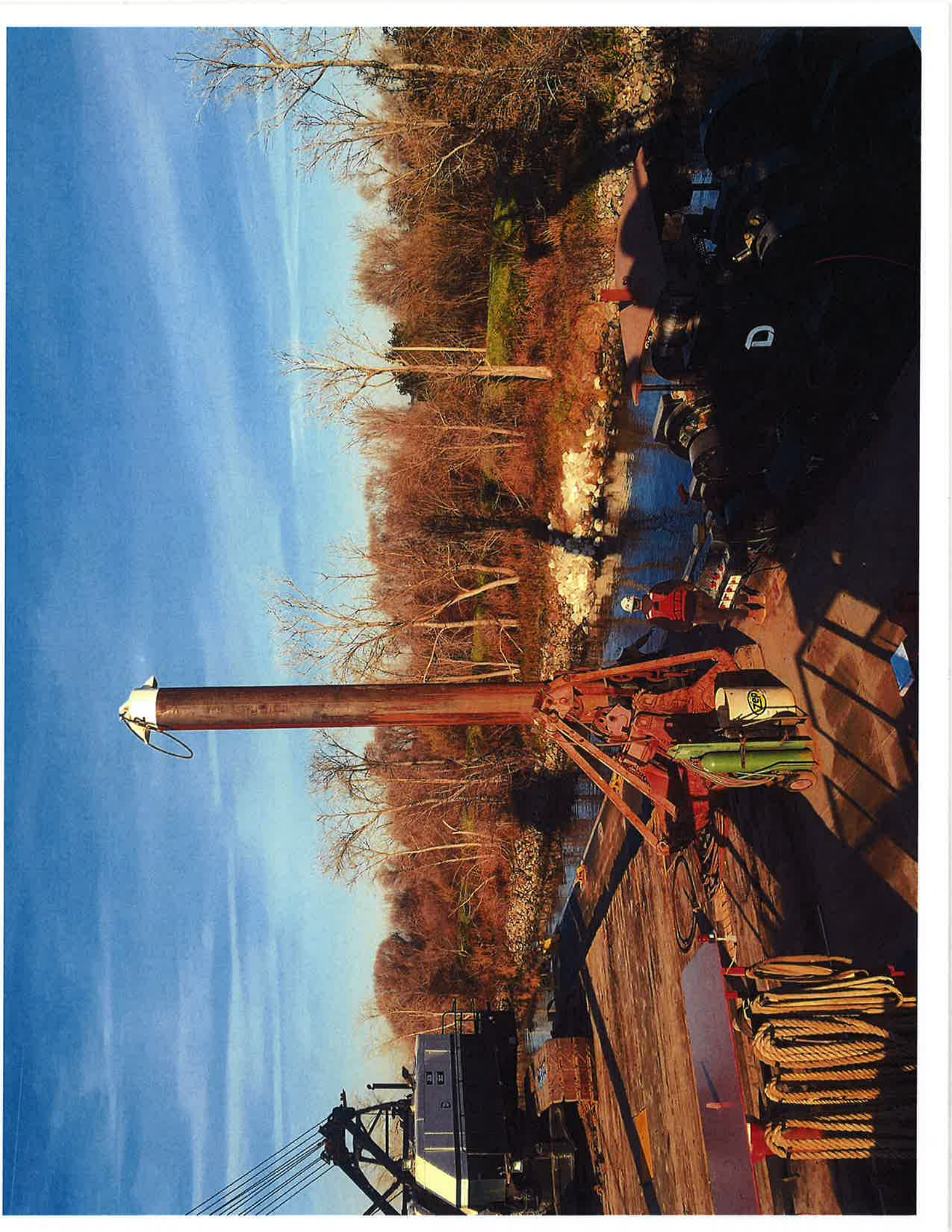












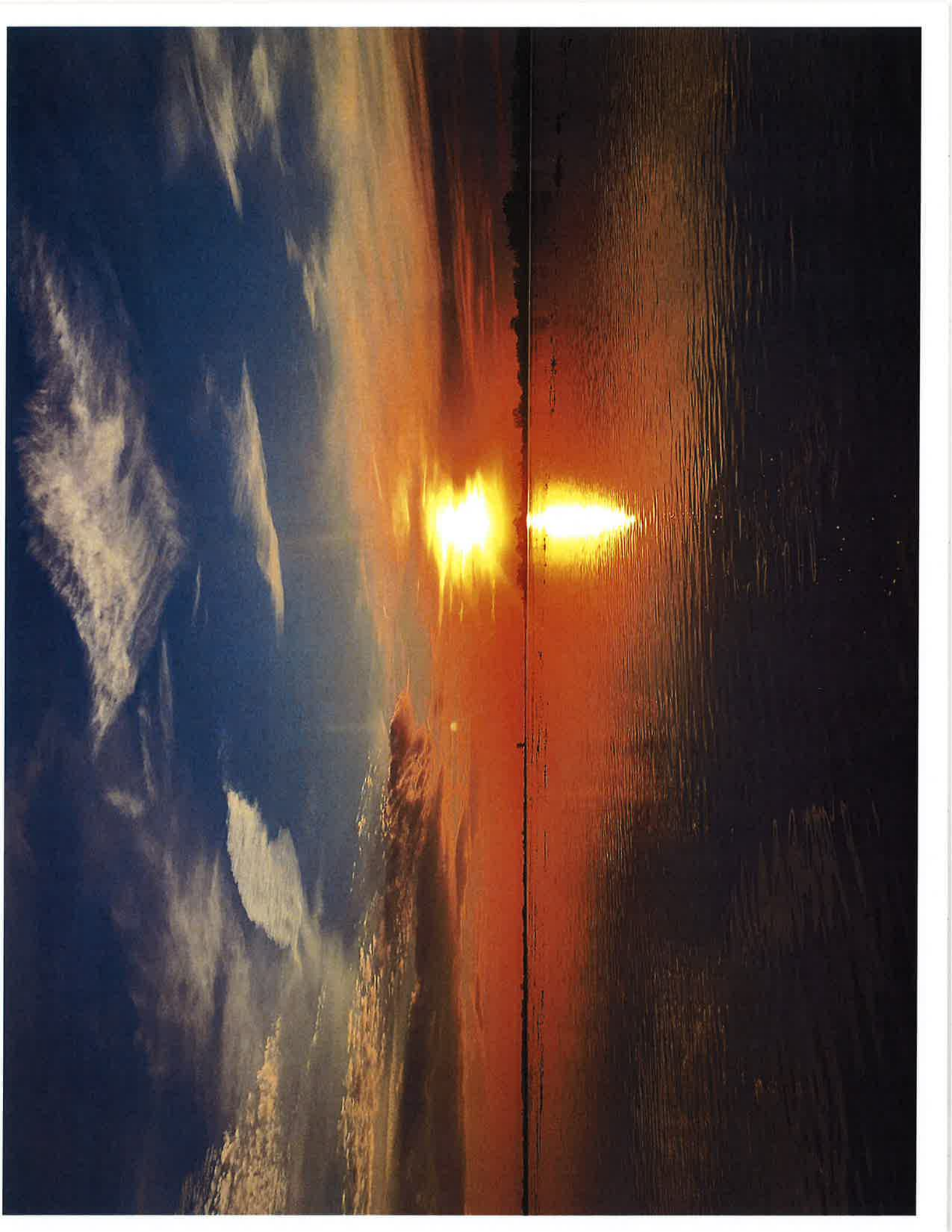




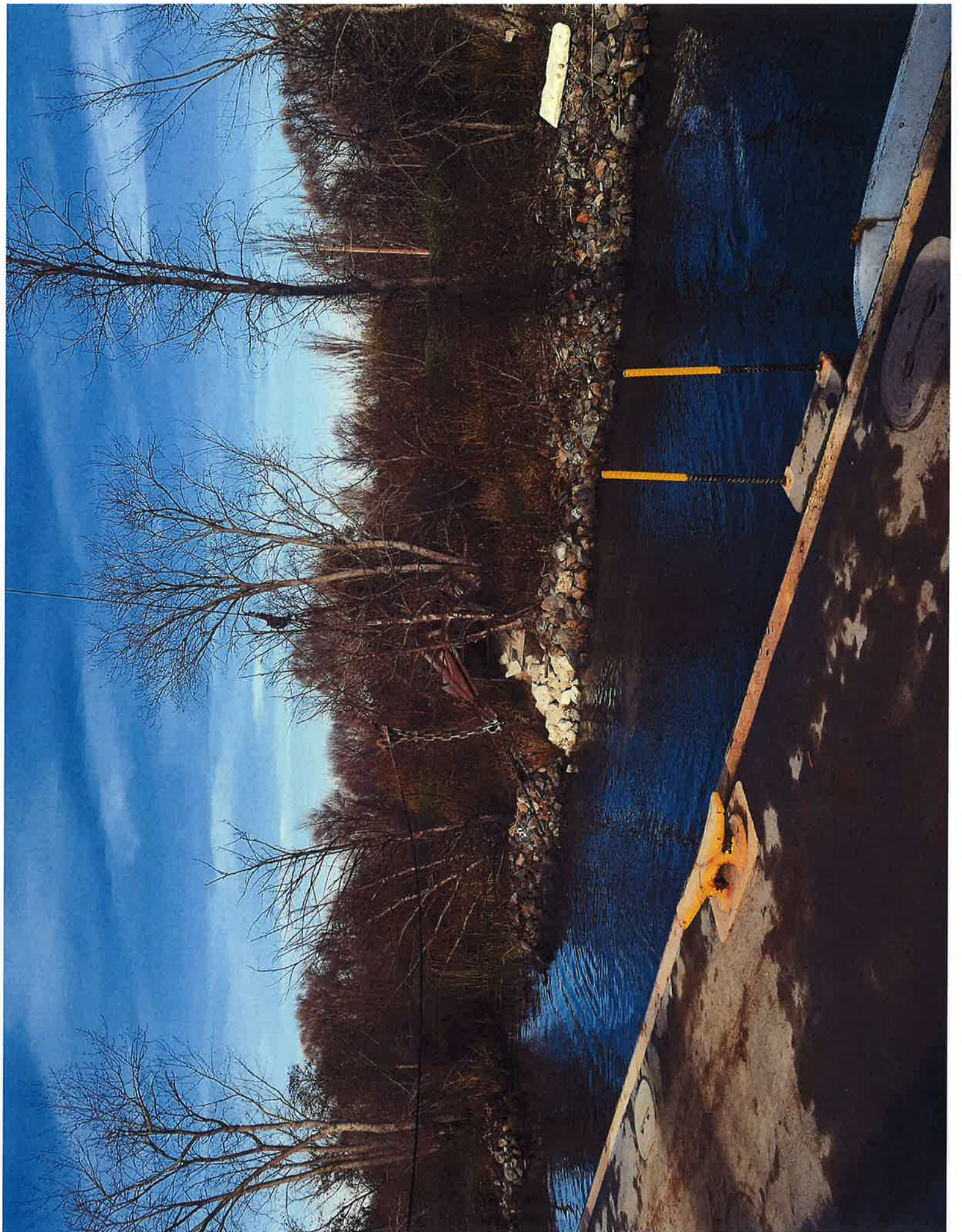


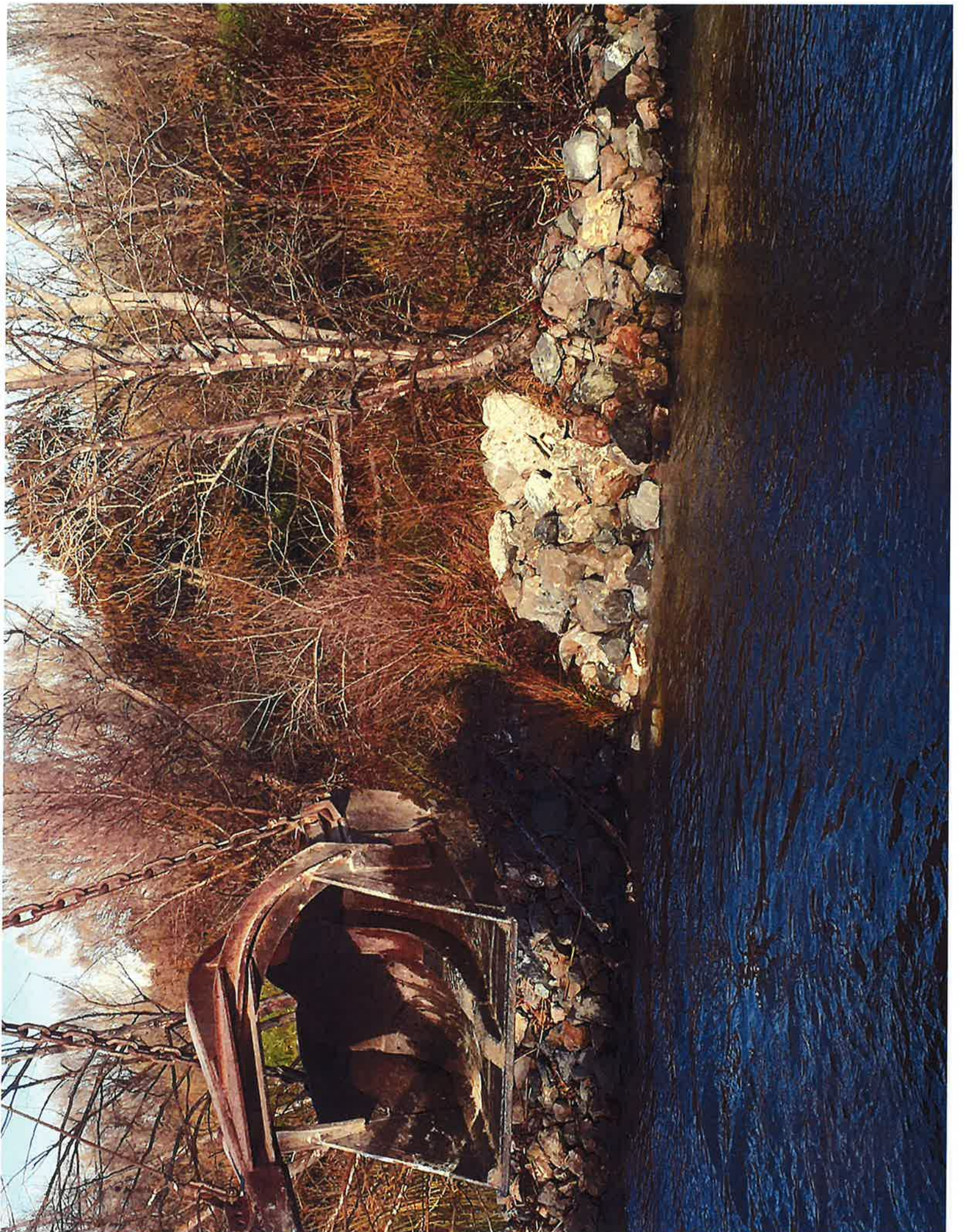








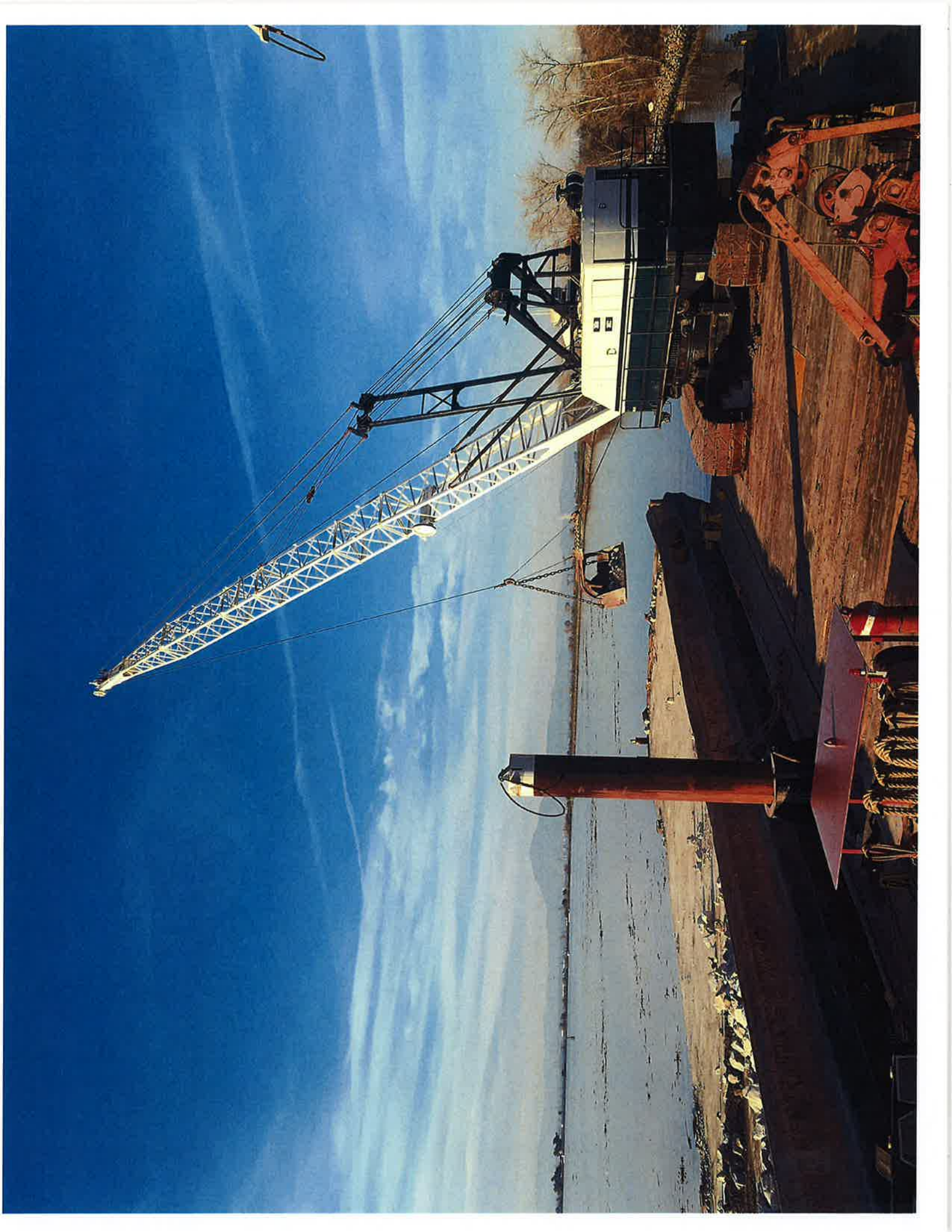














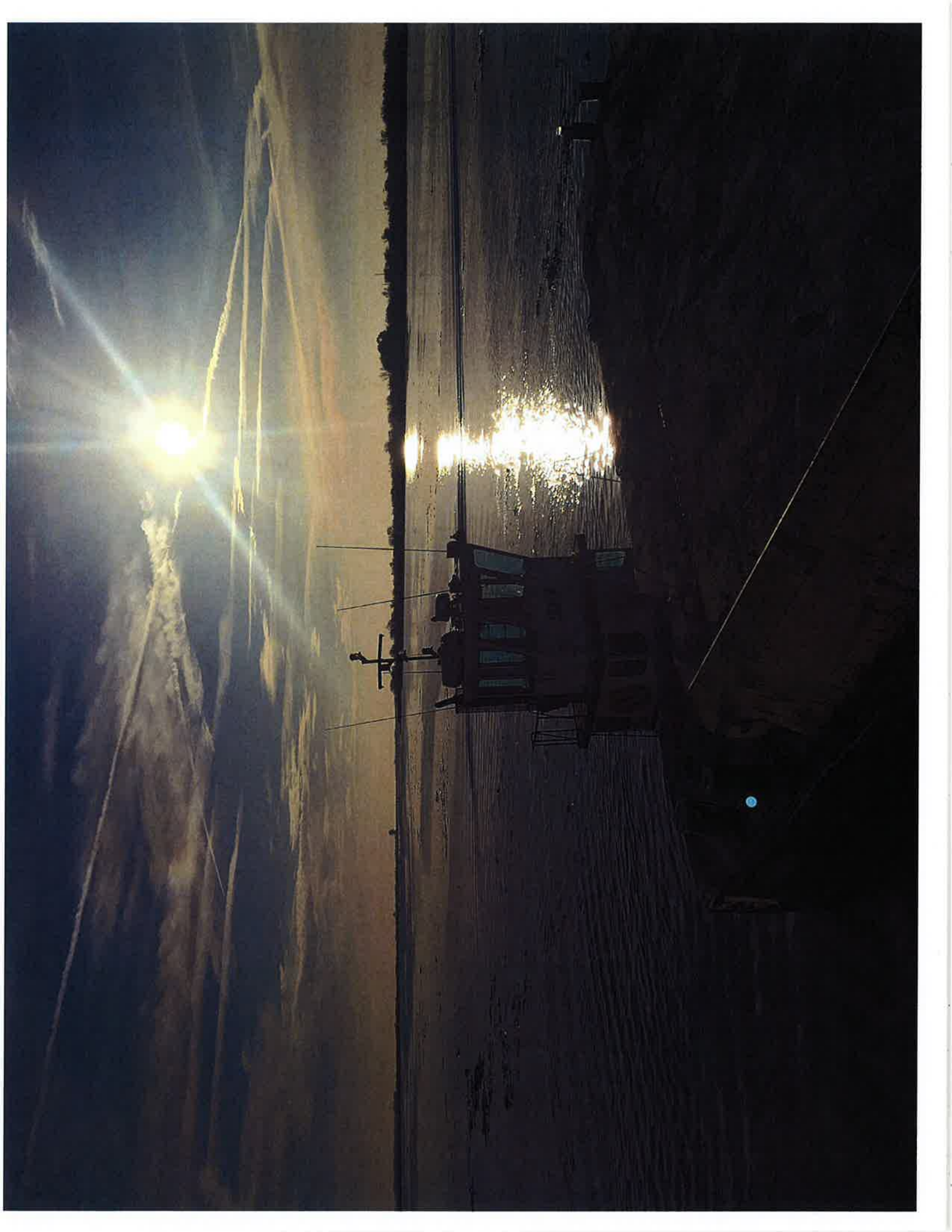








Exhibit C

Christopher H. Neudeck

From: Dave C. Carr
Sent: Thursday, February 10, 2022 6:48 AM
To: Christopher H. Neudeck
Subject: FW: Twitchell Pump Station -Spec-
Attachments: 26 05 73 - ARC FLASH HAZARD ANALYSIS SHORT-CIRCUITCOORDINATION STUDY.doc; 3030_001.pdf

From: Dave C. Carr <dcarr@ksninc.com>
Sent: Wednesday, February 9, 2022 4:40 PM
To: Dave C. Carr <dcarr@ksninc.com>
Subject: FW: Twitchell Pump Station -Spec-

From: Dave C. Carr
Sent: Wednesday, January 26, 2022 2:15 PM
To: Matt Boring <matt.boring@controlpointeng.com>
Cc: Christopher H. Neudeck <cneudeck@ksninc.com>; Barry Sgarrella <barry@solagra.com>; Jack D. Wilbur <jwilbur@ksninc.com>; rd1601@frontiernet.net
Subject: Twitchell Pump Station -Spec-

Matt,

The district is interested in the power systems coordination study per the attached spec you provided. Should this be completed before or after the pump 2 work is complete? Further info below on pump 2.

Either way, I can reach out to Power Systems (we contracted with them to do the power monitoring) and get quotes for the coordination study.

When Reaching out to Power Systems setting this up for proposal, can I use the original drawings provided by MCC or the modified version that you have been updating?

The district is also interested in a high efficiency motor to power pump 2. Greg Moorman makes a good point about high efficiency motors being susceptible to damages and issues caused by the dirty power being supplied to the pump station. To mitigate the issues caused by dirty power and extend the life of the pump 2 combination, Moorman suggests that a 125 HP motor / soft start combination be considered to power pump 2.

The district believes this is a good approach proposed by Moorman, however, need to complete this work per code and with stamped engineering drawings, taking into consideration existing system configuration and planning for potential future soft start upgrades to the other pumps with regard to breakers, starters and available real-estate to do so. Are stamped engineered drawings something that Control Point can produce in a relatively short timeframe? We would be looking at getting these drawings complete prior to cutting Moorman loose on ordering the 125 HP motor or do you feel we can comfortably plan to have Moorman order this 125 HP motor with a long lead time right now and follow up with the engineered drawings later?

I have requested from Moorman the cut sheet on the motor, soft start, and cabinet he proposes to use, would there be anything else that you may need?

Thanks,

Dave Carr

From: Matt Boring <matt.boring@controlpointeng.com>

Sent: Thursday, January 6, 2022 3:52 PM

To: Dave C. Carr <dcarr@ksninc.com>

Subject: spec

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Matt Boring
ControlPoint Engineering, Inc.
3941 Park Drive, Unit 20-652
El Dorado Hills, CA 95762
cell 530.957.1304
matt.boring@controlpointeng.com
www.controlpointeng.com



PROPOSAL LETTER

To KSN Engineering, Inc.

Tel: 209 946-0268

Fax:

Att Dave Carr

Description Power System Studies

Name Twitchell Island PS Power Studies

Location Twitchell Island Rd / Jackson Slough Sac County CA

Proposal number Rev
HP 17516

Proposal date
1/28/2022

Bid date

Scope of work

Provide engineering services to perform power system studies (via SKM software) as stated below:

- 1. Single-Line Diagram E3
- Short Circuit, Coordination & Arc Flash Studies

EXCLUSIONS:

- 260573 3.01 - (A-C) - N/A, by others or under separate contract
- 260573 3.02 A – PSTC uses ONLINELABELS.com OL145LP or similar
- 260573 3.02 C – label installation by customer
- 260573 3.03 - (A-B) - N/A, arc flash training to be provided and performed by others

TERMS AND CONDITIONS

All Data To Be Gathered By Others & Submitted to PST's Engineer. (Engineer will perform studies remotely and will not step foot on-site during the process). Arc flash labels will be applied in the field by others.

Overcurrent settings will be provided alone for protective devices as part of the study; additional functions are not included and will incur additional cost if they are needed.

Services, components, or equipment not listed above are not included in this proposal. Any and all specifications associated with above project and not listed here may be deemed as an exception unless agreed by both parties in writing to be part of the scope of this proposal.

Insurance requirements that deviate from our standard limits or requirements may incur a fee.

Purchase orders or contracts must refer to proposal for scope of work.

6736 Preston Avenue, Suite E, Livermore, CA 94551 Ph. (510) 783 5096 Fax (510) 785-6480

Client responsibilities

1. Provide all information necessary to complete the Short Circuit Coordination & Arc Flash Studies.
2. Install labels generated by study.
3. Allow 3-4 weeks ARO and Receipt of all data by Engineer for completion of study.
4. Provide purchase order for work listed above.

ON A TIME A MATERIALS BASIS, FOR A COST NOT TO EXCEED: \$0.00

FOR A FIRM PRICE OF: \$3,000.00

THIS PROPOSAL IS VALID FOR: 90 DAYS

Note: Unless otherwise stated, all costs are based on straight time rates.

SIGNED: _____

Jacob Alford
POWER SYSTEMS TESTING COMPANY