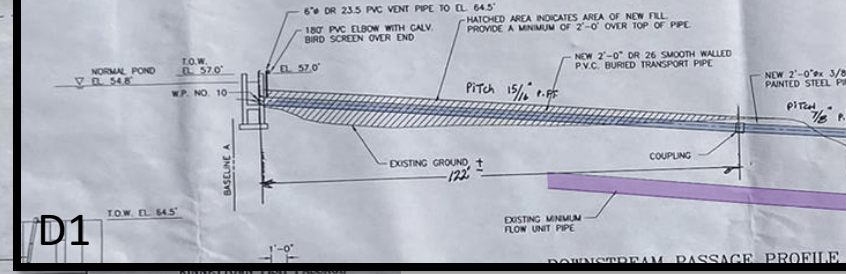
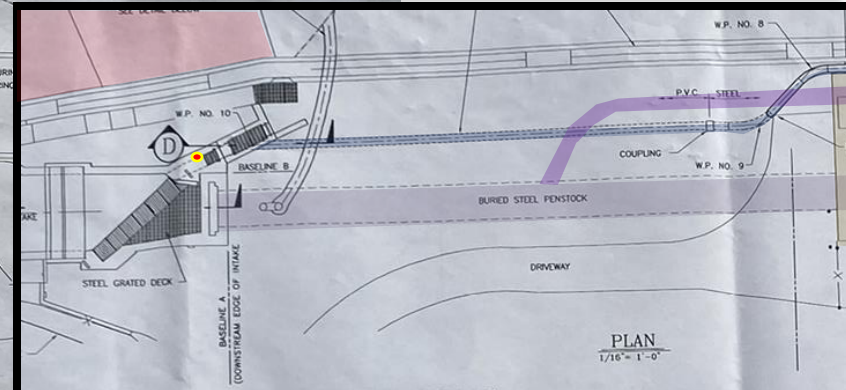
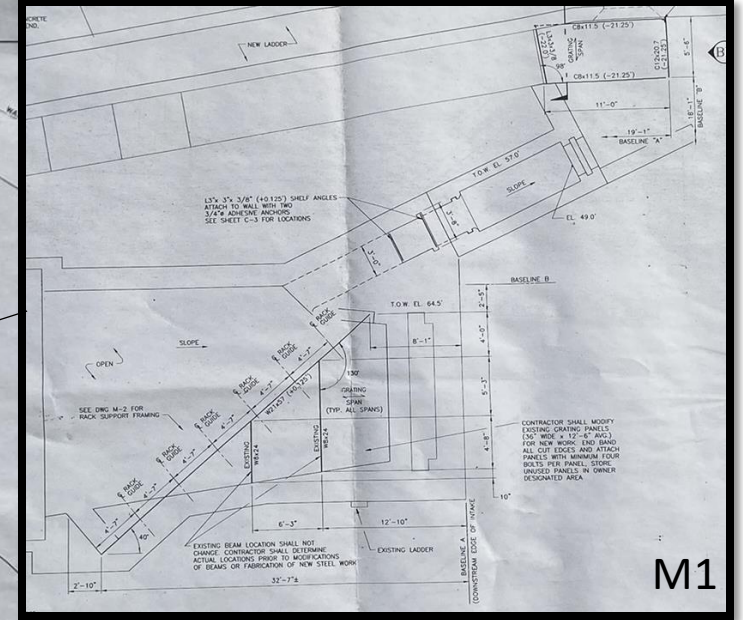
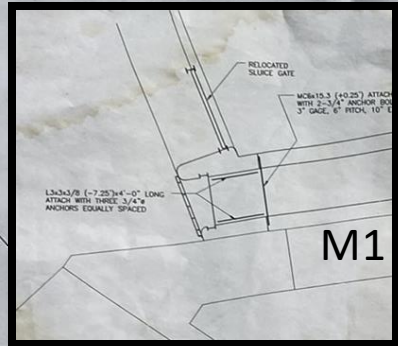
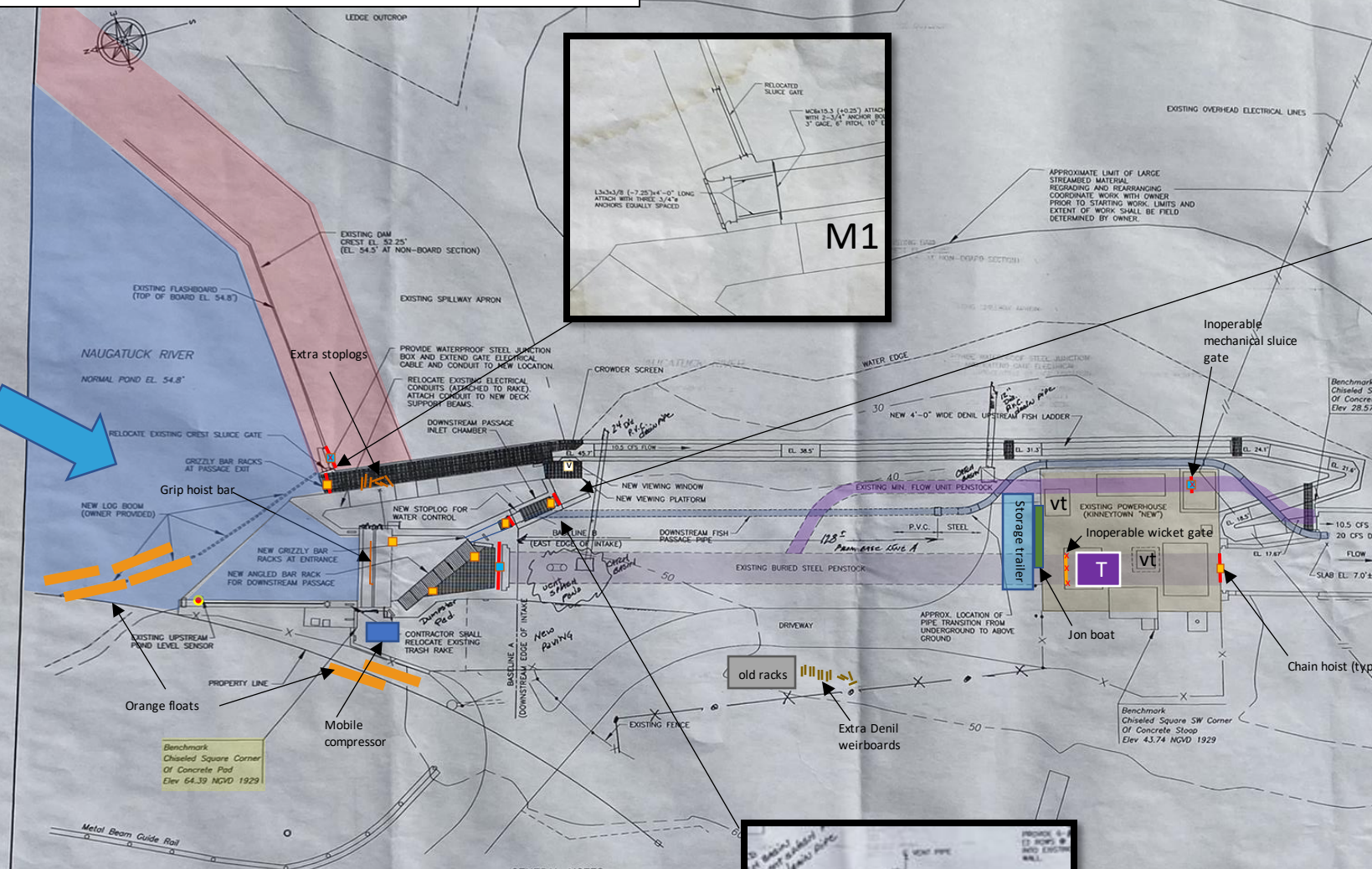


Kinneytown Powerhouse – Plan View



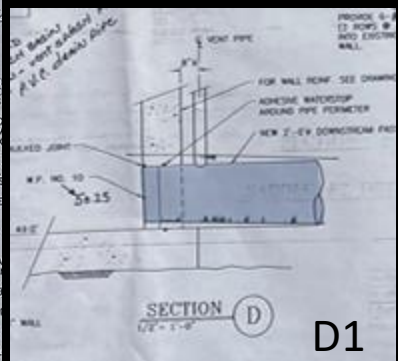
FISHWAY DESIGN CRITERIA:
 DESIGN POPULATION
 AMERICAN SHAD – 15,000±
 RIVER HERRING – 20,000±

PASSAGE SEASON:
 UPSTREAM – APRIL 1 THROUGH JULY 15
 AND OCTOBER 1 THROUGH DECEMBER 1.
 DOWNSTREAM – JULY 1 THROUGH NOVEMBER 15

KINNEYTOWN "NEW" STATION HYDRAULIC CAPACITY IS RATED AT 750 CFS

Approved
 THU. M. BAIRD
 CHI. RGP.

- GENERAL NOTES:**
1. TOPOGRAPHIC INFORMATION AND LOCATION OF EXISTING ST. DETERMINED FROM SURVEY BY ANDERSON ASSOCIATES, INC. SHALL CONTROL INFORMATION AND REPORT DISCREPANCIES.
 2. CONTRACTOR SHALL SUPPLY TEMPORARY DEVICES AS HE SECURE THE SITE DURING CONSTRUCTION FROM VANDALISM. CONTRACTOR SHALL PROVIDE OWNER WITH KEY AND/OR ACCESS. CONTRACTOR'S DEVICES SHALL MEET OR EXCEED THE STATE OF CONNECTICUT'S DEPT. OF TRANSPORTATION SECTION 1-07.07 FOR PUBLIC SAFETY. CONTRACTOR SHALL AND ADJACENT PROPERTY FROM DAMAGE CAUSED BY CONSTRUCTION.
 3. CONTRACTOR ACCESS TO THE POWERHOUSE SHALL NOT BE OWNER CONSENT OR IN THE EVENT OF AN EMERGENCY.
 4. STATION IS OPERATED AUTOMATICALLY. CONTRACTOR SHALL WITH OWNER ANY INTERRUPTION TO STATION OPERATION.
 5. SEE SPECIFICATIONS AND PERMIT REQUIREMENTS FOR DETAIL TURBIDITY CURTAIN, SOIL EROSION CONTROL AND OTHER EROSION CONTROL MEASURES.
 6. ALL SEEDING OF DISTURBED AREAS SHALL BE COMPLETE BEFORE CONSTRUCTION OF ANY STRUCTURE.
 7. NEW TRASHRACK STRUCTURES ARE DESIGN FOR FULL BUNGE LOADS.
 8. ALL ACCESS GRATING AND WALKWAY DESIGN LIVE LOAD IS 100 PSF.
 9. ALL ELEVATIONS ARE N.G.V.D. ADD 97.42' TO ADJUST TO LOCAL MEAN SEA LEVEL.



9-22-98	AJN	RELEASED FOR CONSTRUCTION
5-8-98	AJN	ISSUED FOR BID
Date	Chkd	Revision
Drawn by: AJN	Date: 4-06-98	
Designed by: AJN	Date: 4-06-98	
Checked by: TLK	Date: 5-08-98	
Scale: 1/16" = 1'-0"		

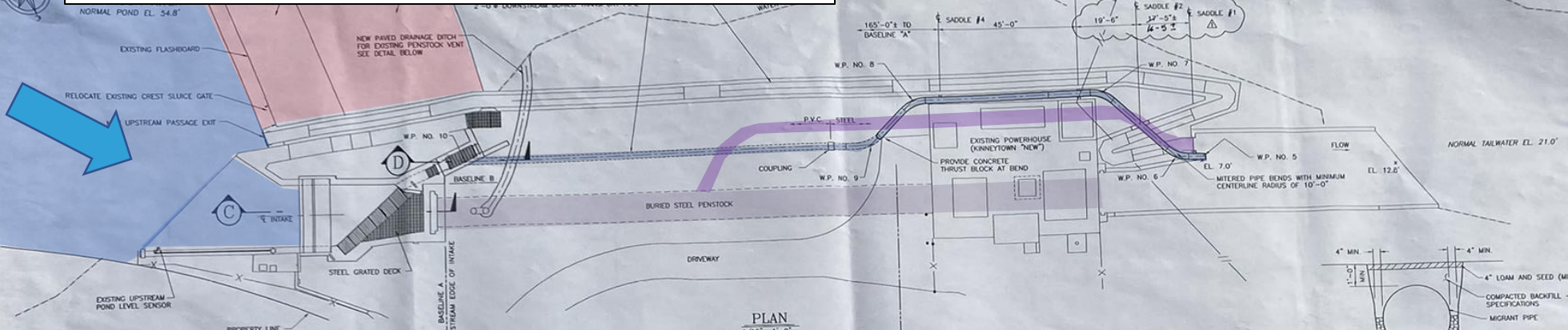
SITE PLAN AND GENERAL ARRANGEMENT

Kleinschmidt Associates
 Consulting Engineers
 Pittsfield, Maine

SHEET S-1
 427-058

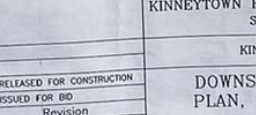
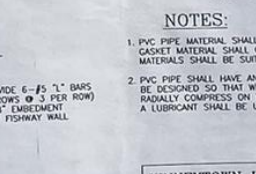
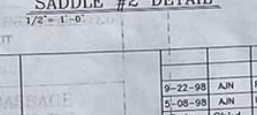
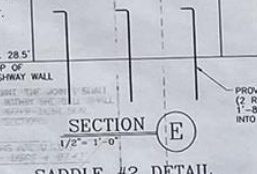
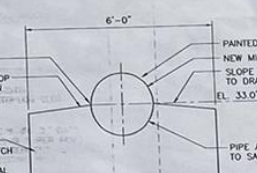
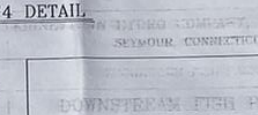
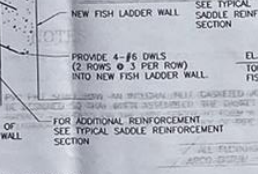
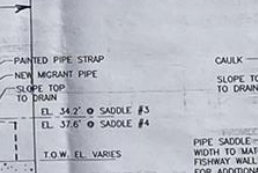
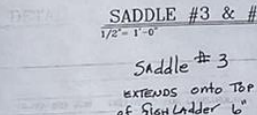
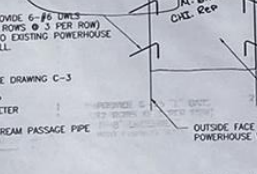
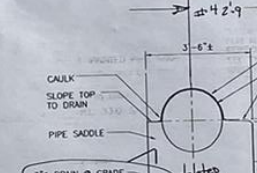
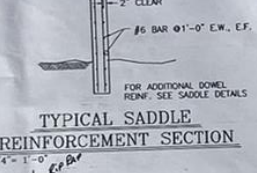
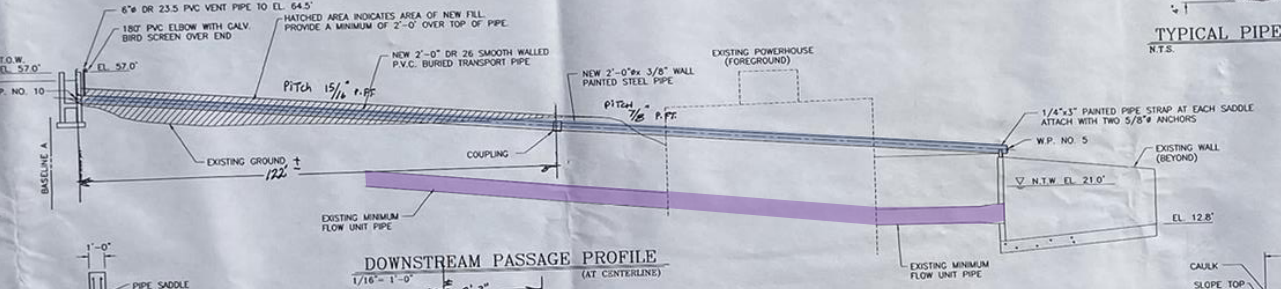
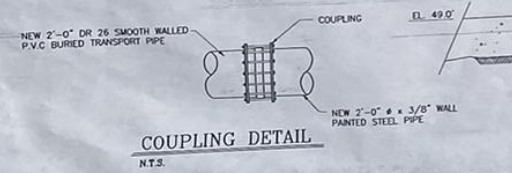
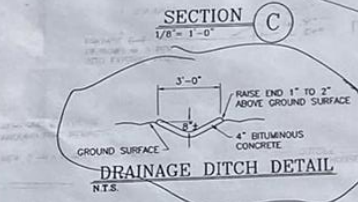
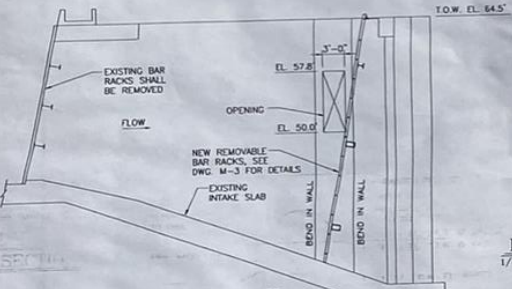
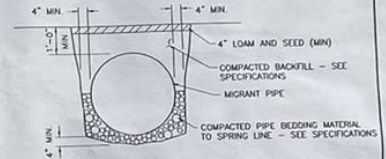
S#

Kinneytown Powerhouse – Plan & Profile View



WORK POINT LOCATION TABLE			
WORK POINT	CENTER LINE ELEV.	DIMENSION FROM BASELINE A	DIMENSION FROM BASELINE B
NO. 5	30.5'	250'-0"	3'-0"
NO. 6	31.20'	240'-7"	2'-10"
NO. 7	33.62'	217'-7"	25'-11"
NO. 8	38.3	150'-11"	24'-0"
NO. 9	39.8	141'-11"	9'-5 1/2"
NO. 10	50.0'	7'-0"	7'-1 1/2"

By M. O'Neil
C.P.S. - R.S.P.



- NOTES:**
- PVC PIPE MATERIAL SHALL CONFORM TO THE ASTM D2665 AND ASTM F679 CASSET MATERIAL SHALL CONFORM TO ASTM F 477. MATERIALS SHALL BE SUITABLE FOR EXPOSURE TO ULTRAVIOLET LIGHT.
 - PVC PIPE SHALL HAVE AN INTEGRAL BELL CASKED JOINT. THE JOINTS SHALL BE DESIGNED SO THAT WHEN ASSEMBLED, THE GASKET WITHIN THE BELL SHALL RADIALLY COMPRESS ON THE PIPE SPOUT TO FORM A WATER-TIGHT SEAL. A LUBRICANT SHALL BE USED FOR ASSEMBLY OF PIPE SECTIONS.
- ALL ELEVATIONS ARE U.S.G.S. ARCO DATUM = USGS + 97.42'

KINNEYTOWN HYDRO COMPANY, INCORPORATED
SEYMOUR, CONNECTICUT

KINNEYTOWN FISH PASSAGE

DOWNSTREAM FISH PASSAGE
PLAN, PROFILE AND DETAILS

9-22-98	AJN	RELEASED FOR CONSTRUCTION
5-08-98	AJN	ISSUED FOR BID
Date	Chkd.	Revision
Drawn by: AJN	Date: 4-06-98	
Designed by: AJN	Date: 4-06-98	
Checked by: TLK	Date: 5-08-98	
Scale: 1/16" = 1'-0"		

KA Kleinschmidt Associates
Consulting Engineers
Pittsfield, Moine

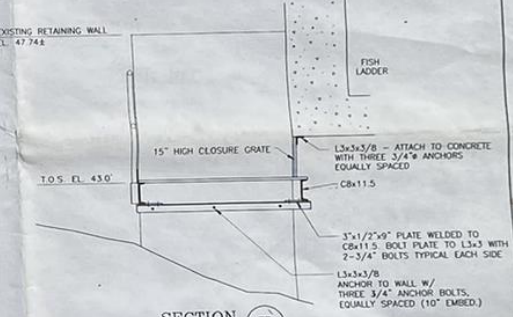
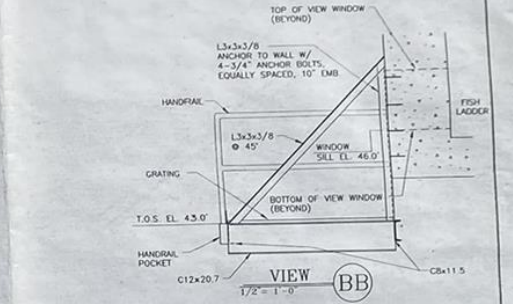
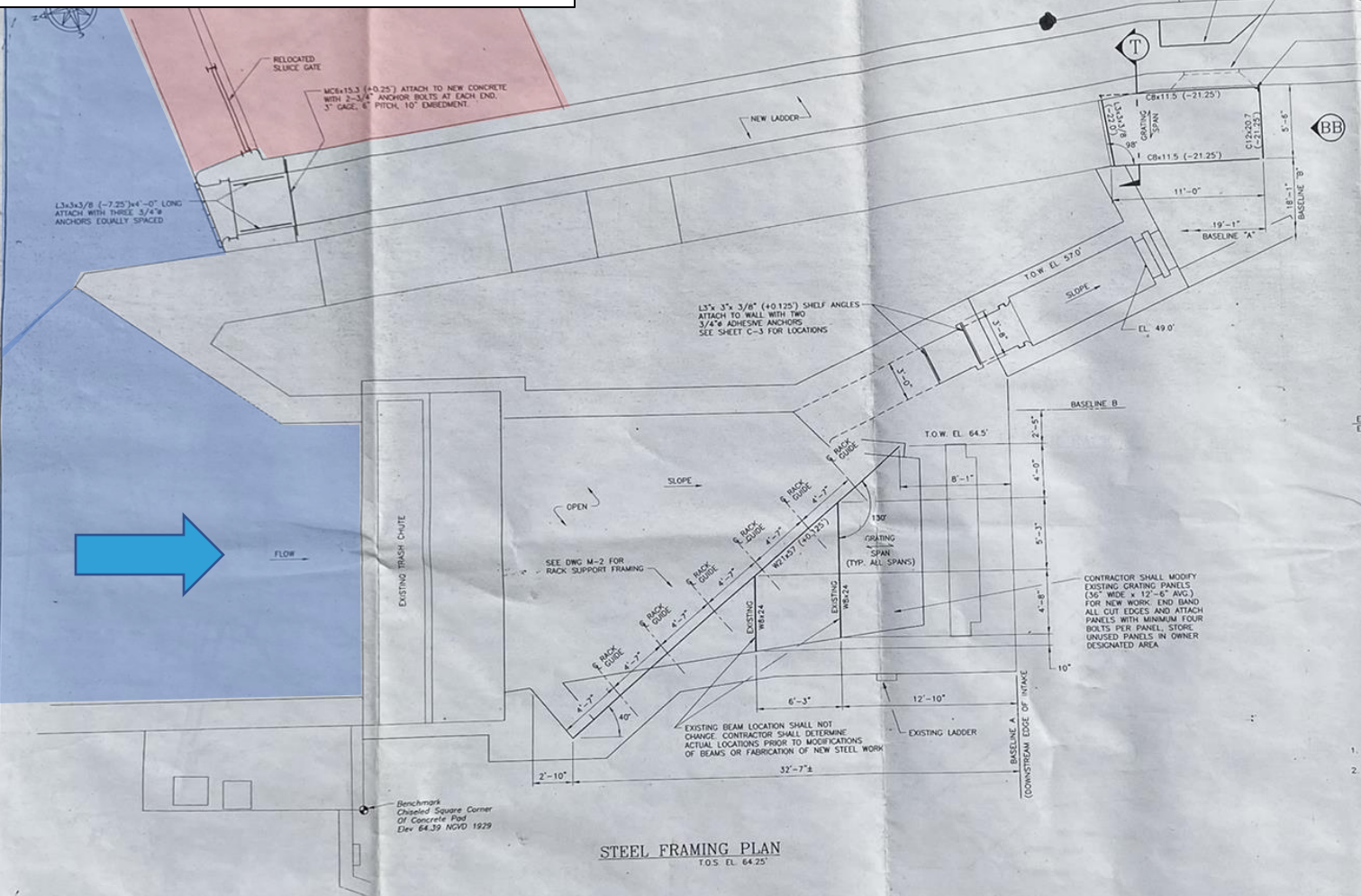
SHEET NO
D-1
427-058-004

Saddle #3
EXTENDS ONTO TOP
OF FISH LADDER 6"

CHANGED
TO CATCH BASKET
WITHIN 7' OF EXISTING POND /
W/ 2" P.V.C. CLEAN PIPE

D1

Kinneytown Intake – Plan View



GENERAL STEEL NOTES

- STRUCTURAL STEEL DESIGN STANDARD - AISC SPECIFICATION FOR DESIGN AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, NINTH EDITION.
- MATERIAL PROPERTIES:
 WIDE FLANGE BEAMS AND COLUMNS - ASTM A572-50
 STEEL PLATES, ANGLES AND CHANNEL - ASTM A36
 BOLTS - 3/4" ASTM A325 GALV. ALL CONNECTIONS OF STRUCT. MEMBERS.
 ANCHOR BOLTS - HILTI "HAS" STD. GALVANIZED STEEL ADHESIVE ANCHOR OR APPROVED EQUAL. INSTALL TO MANUFACTURER'S RECOMMENDED DEPTH FOR ANCHOR SIZE.
 STRUCTURAL TUBING - ASTM A500, GRADE B
 WELD - PER AWS D1.1 USING E70XX ELECTRODE
 PAINT - SURFACE PREPARATION SSPC-SP10 "NEAR WHITE BLAST"
 PRIMER - 2 COATS INEMEC HIGH BUILD EPOXY 140 OR EQUAL (EMOIT)
 FINISH - INEMEC SERIES 73 ENOURASHIELD II URETHANE ENAMEL 3-5 MDT OR EQUAL COLOR SELECTED BY OWNER.
- FABRICATOR SHALL DESIGN CONNECTIONS FOR BEAMS USING AISC STANDARD FRAMED BEAM CONNECTIONS. DESIGN FOR MAXIMUM UNIFORM END REACTION, OR FOR END REACTION SHOWN ON FRAMING PLAN, OR 50%PS, WHICHEVER IS GREATER.
- CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS.
 MINIMUM BOLT SIZE 3/4" DIA. UNLESS NOTED OTHERWISE.
- PORTIONS OF STEEL PRODUCTS AND SHAPES TO BE EMBEDDED IN CONCRETE SHALL NOT BE PAINTED WITHIN 2" OF THE EXPOSED FACE.

KINNEYTOWN HYDRO COMPANY, INCORPORATED
 SEYMOUR, CONNECTICUT

KINNEYTOWN FISH PASSAGE

STEEL FRAMING PLANS AND DETAILS

9-22-98	AIN	RELEASED FOR CONSTRUCTION
9-08-98	AIN	REVISED INTAKE LAYOUT
5-08-98	AIN	ISSUED FOR BID
Date Chkd. Revision		
	AIN	Date: 3-30-98
	AIN	Date: 3-30-98
	TLK	Date: 5-08-98
Scale: 1/4" = 1'-0"		

KA Kleinschmidt Associates
 Consulting Engineers
 Pittsfield, Maine

SHEET NO
M-1
 427-058-010



M1

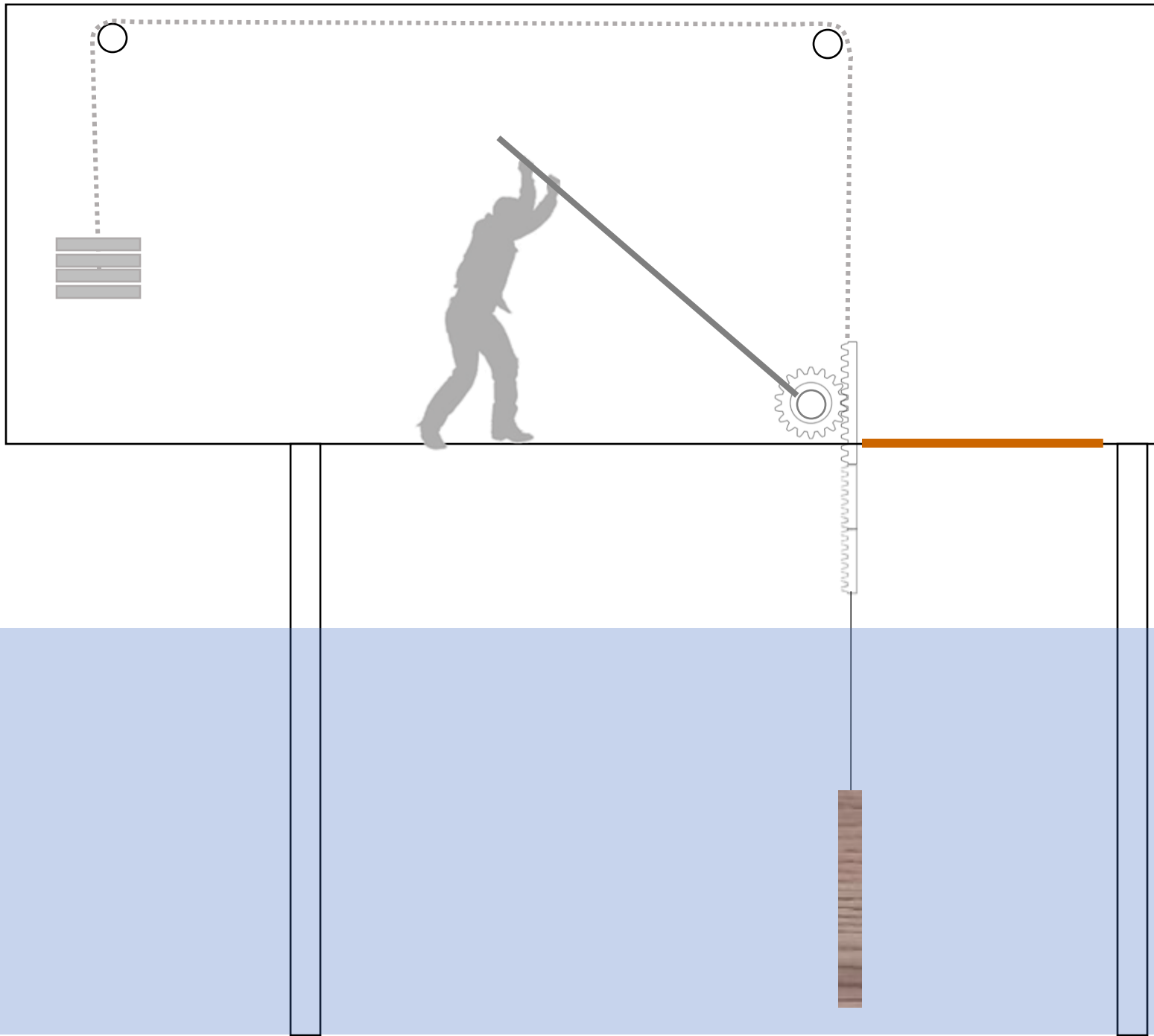
Canal Gate House – Plan View



5 manual chain hoist with counterweight sluice gates. 3 are currently partially open.

Sheetpile – could be of concern if canal is not filled

Canal Gate House
Profile View



Canal Gate House



Ansonia Powerhouse – Plan View



Right bank Headrace (i.e. Northern spillway headrace)



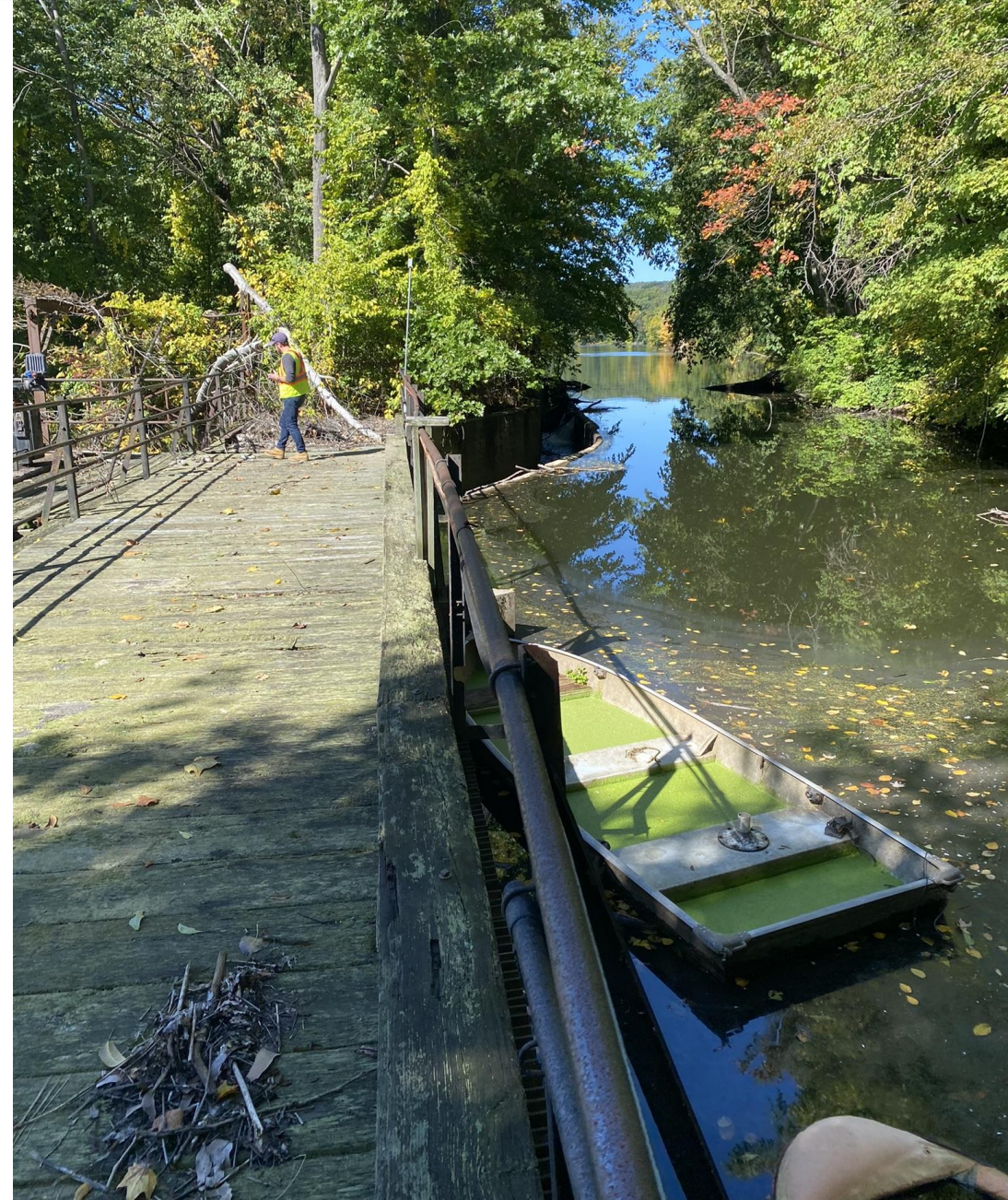
Left bank Headrace (i.e. Southern spillway headrace)



1 manual sluice gate and 3 mechanical sluice gates (it is unknown if they are operable)



1 manual sluice gate and 3 mechanical sluice gates and wooden operating platform in poor condition



1 manual sluice gate and 3 mechanical sluice gates with screened intakes

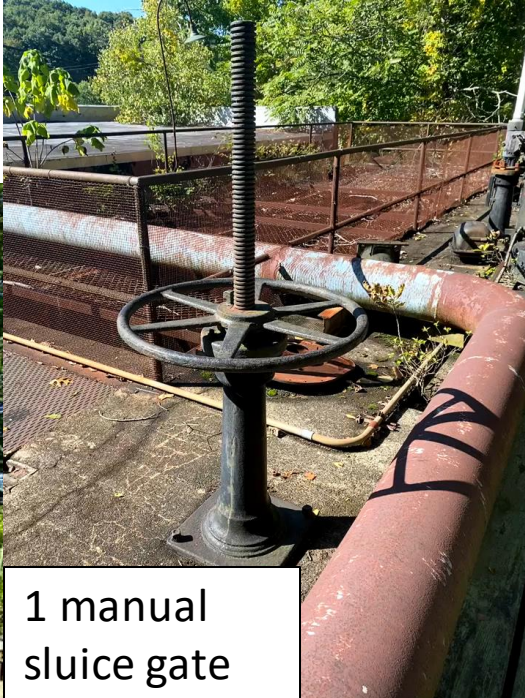


1 manual sluice gate and 3 mechanical sluice gates and wooden operating platform in poor condition



1 manual sluice gate and 3 mechanical sluice gates and wooden operating platform in poor condition

Grate covering forebay



1 manual sluice gate





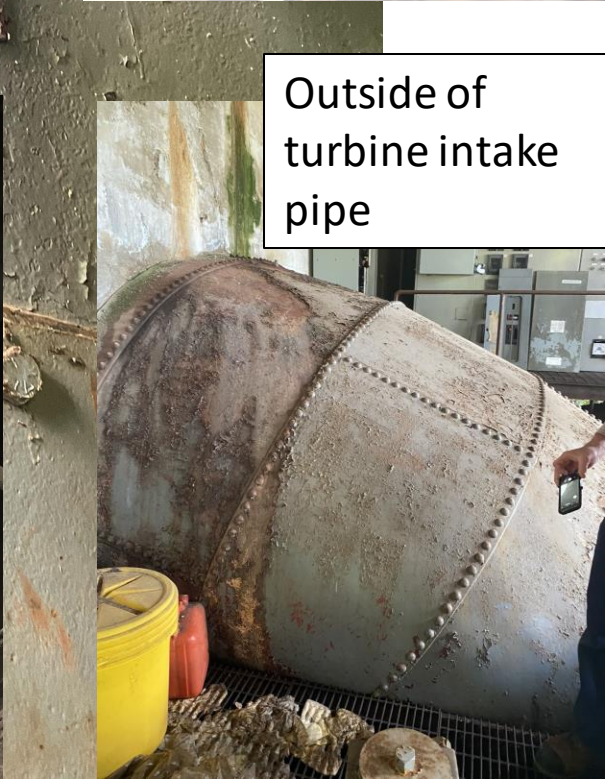
Inside turbine housing looking U/S through turbine intake pipe to forebay and outlets to 3 mechanical sluice gates



Inside of turbine housing



Inside of turbine housing

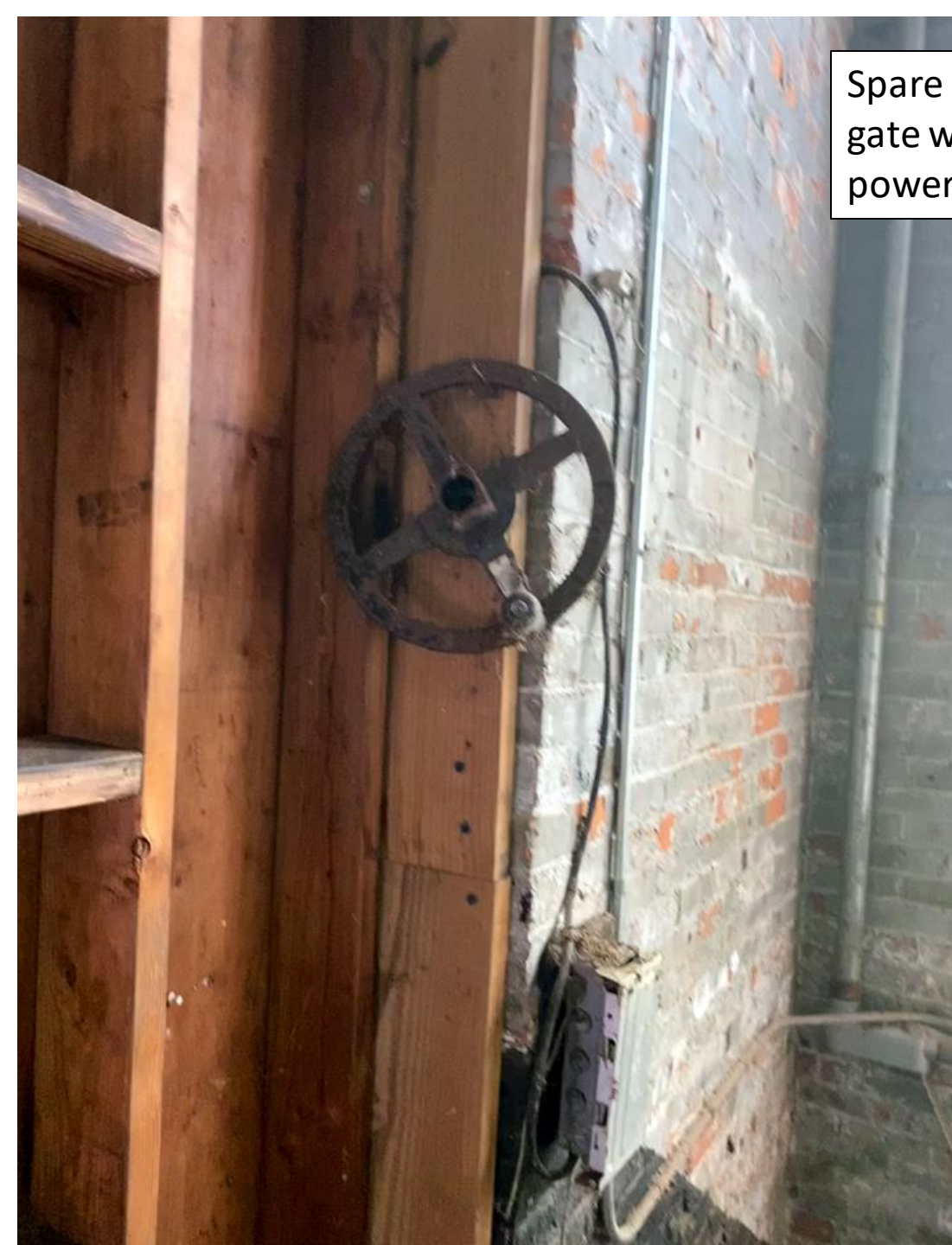


Outside of turbine intake pipe


Turbine and Turbine housing (note pully system on ceiling I-beam)



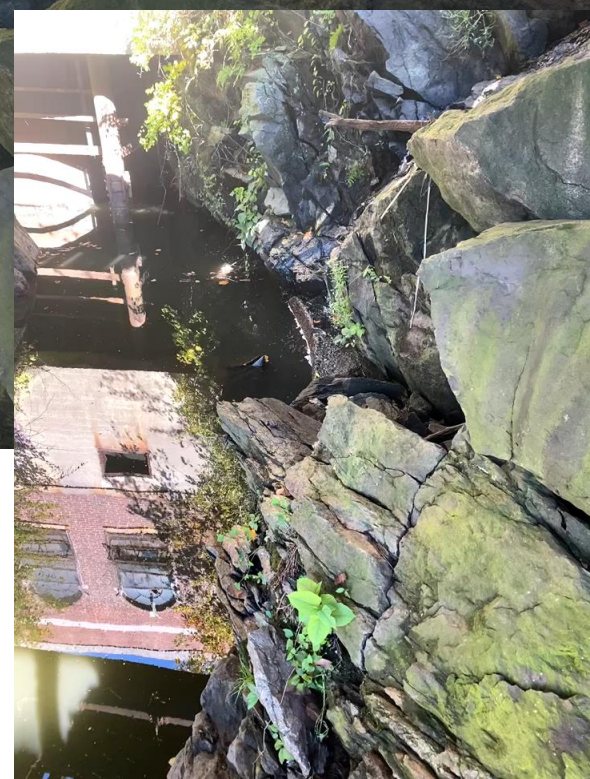


A photograph showing a large, dark, circular metal wheel with four spokes, mounted on a wooden wall. The wheel is positioned next to a brick wall and a vertical pipe. The scene is outdoors, with sunlight casting shadows on the brick wall.

Spare sluice
gate wheel in
powerhouse

A photograph of a narrow, rocky spillway. The water is dark and turbulent, flowing over a bed of large, dark rocks. The spillway is bordered by a brick wall on the left and a concrete wall on the right. A large pipe runs along the bottom of the spillway. In the background, there is a metal railing and some greenery.

Left bank
(southern)
spillway



Turbine outlet pipe/riser visible beneath building (photo taken from underneath railroad bridge)