

PUBLIC NOTICE

US Army Corps
of Engineers
New York District, CENAN-OP-R
Upstate Regulatory Field Office
1 Buffington Street, Bldg. 10, 3rd Floor
Watervliet, New York 12189-4000

In replying refer to:
Public Notice Number: NAN-2007-1562-WBR
Issue Date: October 14, 2008
Expiration Date: November 12, 2008

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S. C. 1344).

APPLICANT: Erie Boulevard Hydropower, L.P.
399 Big Bay Road
Queensbury, New York 12804

ACTIVITY: Dredge and discharge fill material into waters of the United States to facilitate the removal of accumulated sediment from the School Street Hydro-electric power canal, dispose of dredged materials, construct fish protection and passage facilities, and install a temporary drinking water intake structure.

WATERWAY: Mohawk River

LOCATION: Town of Colonie and City of Cohoes, Albany County and Town of Waterford, Saratoga County, New York

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. It should be noted that, in accordance with 33 CFR 320.3(f), because the Federal Energy Regulatory Commission issues licenses for the construction and operation/maintenance of hydropower projects, this office is reviewing the activities under the jurisdiction of Section 404 of the Clean Water Act.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO THE ATTENTION OF Kevin Bruce AT THE ABOVE ADDRESS, OR SENT VIA ELECTRONIC MAIL TO Kevin.j.bruce@usace.army.mil TO REACH THIS OFFICE BY THE EXPIRATION DATE OF THIS NOTICE, otherwise, it

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will be presumed that there are no objections to the activity.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat. It should be noted that some of the forested areas within the project, adjacent to the Mohawk River, are frequented by wintering Bald Eagles as they feed on fish in shallow water in the project area, below the School Street Dam.

The Federal Energy Regulatory Commission (FERC) is the lead agency under the National Environmental Policy Act of 1966 (NEPA) for the proposed activity and is coordinating with involved agencies and Native American Tribes to ensure the project complies with Section 106 of the National Historic Preservation Act (NHPA). A Historic Properties Management Plan (HPMP) for the School Street Hydroelectric Project was developed in June of 2007 by the applicant and involved agencies. The plan was prepared by Kleinschmidt Associates, in consultation with the New York State Office of Parks, Recreation, and Historic Preservation (SHPO), National Park Service (NPS), and Native American Tribes. The plan's stated purpose is to address the identification and management of historic properties found within the Area of Potential Effect (APE) for the School Street Hydroelectric Project and to address the management of historic properties for the term of the project's existing FERC license. The SHPO has identified the Cohoes Falls as a natural resource eligible for listing in the National Registry of Historic Landmarks. Presently unknown archeological, scientific, prehistoric, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

In addition to any required water quality certificate, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- Federal Energy Regulatory Commission, ORDER ON OFFER OF SETTLEMENT AND ISSUING NEW LICENSE, Project No. 2539-003 (School Street Project) issued February 15, 2007 (CFR 118 FERC 61,101).
- NYSDEC – Clean Water Act, Section 401, Water Quality Certification (issued October 10, 2006)

NYSDEC - General Permit for Stormwater Discharge (SPDES); NYSDEC Acknowledgement of Notice of Intent for Coverage under SPDES General Permit for Storm Water Discharges from Construction activity, General Permit No. GP-0-08-001:

Recreation: ID No. NYR10P666 obtained May 13, 2008
Fishway: ID No. NYR10Q065; obtained July 10, 2008

NYSDEC - Beneficial Use Determination (BUD) for Disposition Areas

- City of Cohoes – various permits and approvals

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- Town of Colonie – variance determination from the Significant Environmental Areas Management Appeals Board for placement of fill (Disposition Area 1) within 50 feet of the river's banks is required.

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact Kevin Bruce of this office at (518) 266-6358.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>


Richard L. Tomer
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicant, Erie Boulevard Hydropower, L.P. has requested a Department of the Army (DA) permit to dredge accumulated sediment from a power canal associated with the Mohawk River, dispose of dredged materials into wetlands and a tributary to the river, construct fish protection and fish passage facilities within the power canal and install a temporary drinking water intake system. The site is located at the School Street Hydroelectric Project, in the Town of Colonie and City of Cohoes, Albany County and the Town of Waterford, Saratoga County, New York.

BACKGROUND: On February 15, 2007, the Federal Energy Regulatory Commission (FERC) issued an Order On Offer of Settlement and Issuing New License Project No. 2539-003 to the applicant for the School Street Hydroelectric Project. The settlement and FERC license require the applicant to implement resource enhancement measures that include new recreation facilities, modifications to the dam crest and other measures for providing increased flows in the bypass reach, and provisions for fish protection and downstream fish passage facilities.

Modifications to the existing School Street Dam, a requirement of the FERC license, were previously authorized by the DA under the Nationwide Permit (NWP) Program and have been completed. In addition, the replacement of twelve water control gates at the upper gatehouse, were authorized under the NWP program. This work is scheduled to be completed prior to the end of 2008.

In addition to the above, public recreational facilities required by the FERC, including a pedestrian bridge over the power canal, a fishing platform at the power canal, and a fishing platform at the tail race of the facility, do not require DA authorization. These activities are either completed or currently under construction.

THE PROPOSED WORK WOULD INVOLVE:

Power Canal dredging and disposition of sediment: The applicant proposes to excavate and remove up to 65, 000 cubic yards of material from the bed of the power canal. Engineering evaluations estimate that approximately 58,000 cubic yards of material, including an estimated 52,000 cubic yards of sediment and 6,000 cubic yards of loose and weathered bedrock, need to be removed to restore the hydraulic capacity of the canal to the design capacity of 6,600 cubic feet per second (cfs). The applicant has increased the estimate to 65,000 cubic yards to accommodate a larger volume if the estimate falls short of the required volume of materials necessary to remove in order to restore the design capacity to the canal.

Canal dredging would be conducted under dewatered conditions by closing the gates within the upper gatehouse and allowing water to drain from the canal through the power house and lower sluice gates of the lower gatehouse facility. Turbidity curtains would be installed before dewatering is completed and would remain in place throughout the work to prevent turbid discharges into the Mohawk River.

To accomplish dredging, approximately 3,130 cubic yards of temporary fill would be discharged within the canal to construct access roads and access ramps, after the canal is dewatered. In addition, water retention and diversion barriers, consisting of either clean granular fill or Jersey Barriers, would

be constructed. All temporary fills would be removed upon completion of the work and prior to re-watering the canal.

Dredging would include the use of conventional mechanical excavation equipment. Dump trucks would be used to transport excavated material to on-site permanent disposition areas. Saturated sediments containing excessive water would be placed in temporary stockpile and water retention areas within the canal to allow the material to drain prior to transportation to the permanent disposition areas. These temporary stockpile areas would be confined to locations within the canal, and excess water drained from the sediments would be controlled and treated in accordance with an erosion and sediment control plan.

Dredged materials will be permanently placed and stabilized on-site in areas located to the north of the existing canal embankment. Two permanent disposition areas (designated as Disposition Areas 1 and 2) are located on the "island" area between the power canal and Mohawk River. Erosion and sedimentation control measures would be implemented to provide temporary stabilization of land disturbance and to minimize the potential for introduction of sediments into the Mohawk River. In addition, the applicant states that measures would be implemented to ensure the protection of culturally significant properties adjacent to Disposition Areas 1 and 2.

The proposed disposition of dredged materials into Disposition Area 2 would result in impacts to 375 linear street of stream (0.03 of an acre) and 0.14 of an acre of riparian wetlands on either side of the stream. In addition, fill would be placed within portions of both areas 1 and 2 that lie within the 100-year floodplain. A third disposal area (Area 3) is located outside of the 100-year flood plain and would not impact any wetlands or other waters of the U.S. The applicant states that this area would be used as necessary for disposing of dredged materials.

It should be noted that the drinking water supply intake for the City of Cohoes is currently located within the power canal. In order to facilitate dredging and the removal of accumulated sediment, the drinking water supply intake requires relocation for the duration of the canal dewatering period. A temporary water supply system would be installed upstream of the project's upper gatehouse and downstream of the existing ice fender. A pipeline would be installed from the pumping system and run to a temporary wet well located adjacent to the City's existing raw water intake. The existing cast iron intake pipes that feed the City's raw water pump would be connected to the temporary wet well. A turbidity curtain would be positioned around the City's existing raw water intake prior to installing the wet well to prevent turbid discharges from passing downstream of the work area and into the river. Upon completion of the canal dredging all temporary water intake structures and equipment would be removed and the permanent raw water intake would be returned to normal operating condition.

Fish structures: The FERC Settlement Agreement requires the applicant to implement fish protection and downstream passage measures, including: (1) screening the bypass flow release mechanism near the upper gatehouse; (2) installing an angled bar rack upstream of the lower gatehouse; and (3) installing a sheet-pile retaining wall and fish passage pipe(s) and/or flumes near the angled bar rack with top and bottom entrances. In compliance with the FERC License and Settlement Agreement and the New York State Department of Environmental Conservation's (NYSDEC) Water Quality Certification, the applicant has consulted with the

NYSDEC, United States Fish and Wildlife Service, and National Marine Fisheries Service in the design of these structures and facilities.

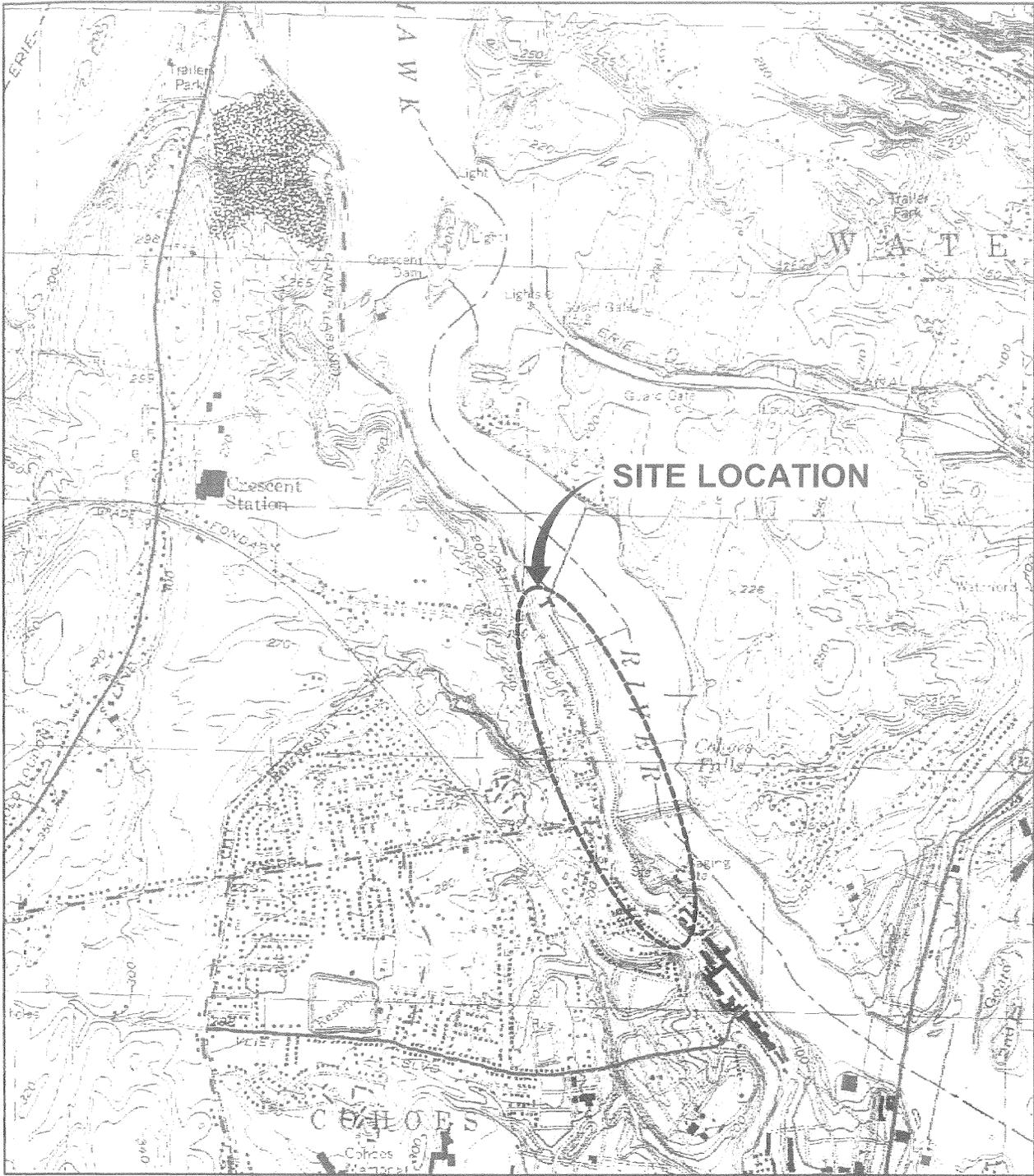
Components of the fish passage system that would be constructed within the canal while the canal is dewatered include the angled bar rack structure, the fish passage entrance structures, and adjacent structures associated with the bar rack and fish passage facilities that are inside the confines of the canal.

The bar rack structure would be made of steel members spanning the canal and would be installed just upstream of the existing lower gatehouse. The structure would be aligned at an angle so that fish would be guided towards the fish bypass entrances. The steel columns supporting the structure would be anchored in concrete footings. The total concrete footing placement in the canal would be less than 75 cubic yards. A small portion of the fish bypass entrance would be constructed in the canal. Less than 500 cubic yards of concrete would be discharged into the canal, making up a portion of the entrance sill and walls. In addition, a maximum of 250 cubic yards of fill material would be discharged into the canal, downstream of a sheet pile retaining wall, for backfill. The purpose of the sheet pile retaining wall is to maintain future intake space between the two fish bypass entrances. Associated fish structures located outside of the canal and leading to the river below the Cohoes Falls includes the new fish passage pipes, separation chamber, transport pipe and pipe outlet. These structures do not require DA authorization to install.

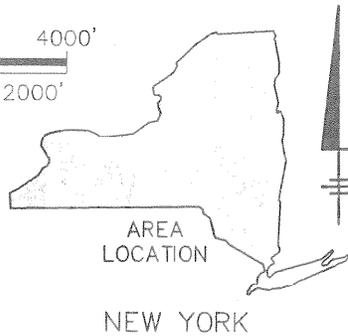
The stated purpose of this project is to construct fish protection and passage structures in order to comply with specific provisions required by the FERC in the *Order On Offer Of Settlement and Issuing New License Project NO. 2539-003*, issued on February 15, 2007, and to restore the design capacity of the power canal.

SYR-65-KLS GMS LAYER: ON=*, OFF=REF
\\NY4FILE3\data\CAD\ACTIVE\DWG\ACT\B2503001\PCS8MP\B2503001.DWG SAVED: 10/10/2007 1:51 PM LAYOUT: 1 PAGESETUP: 1 PAGESHEET: 1 PRINTED: 11/15/2007 4:42 PM BY: WJONES

PROJECTNAME: B2503001
IMAGES: B2503001.TIF
XREFS:



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., TROY NORTH, NY., 1954, PHOTOREVISED 1980.

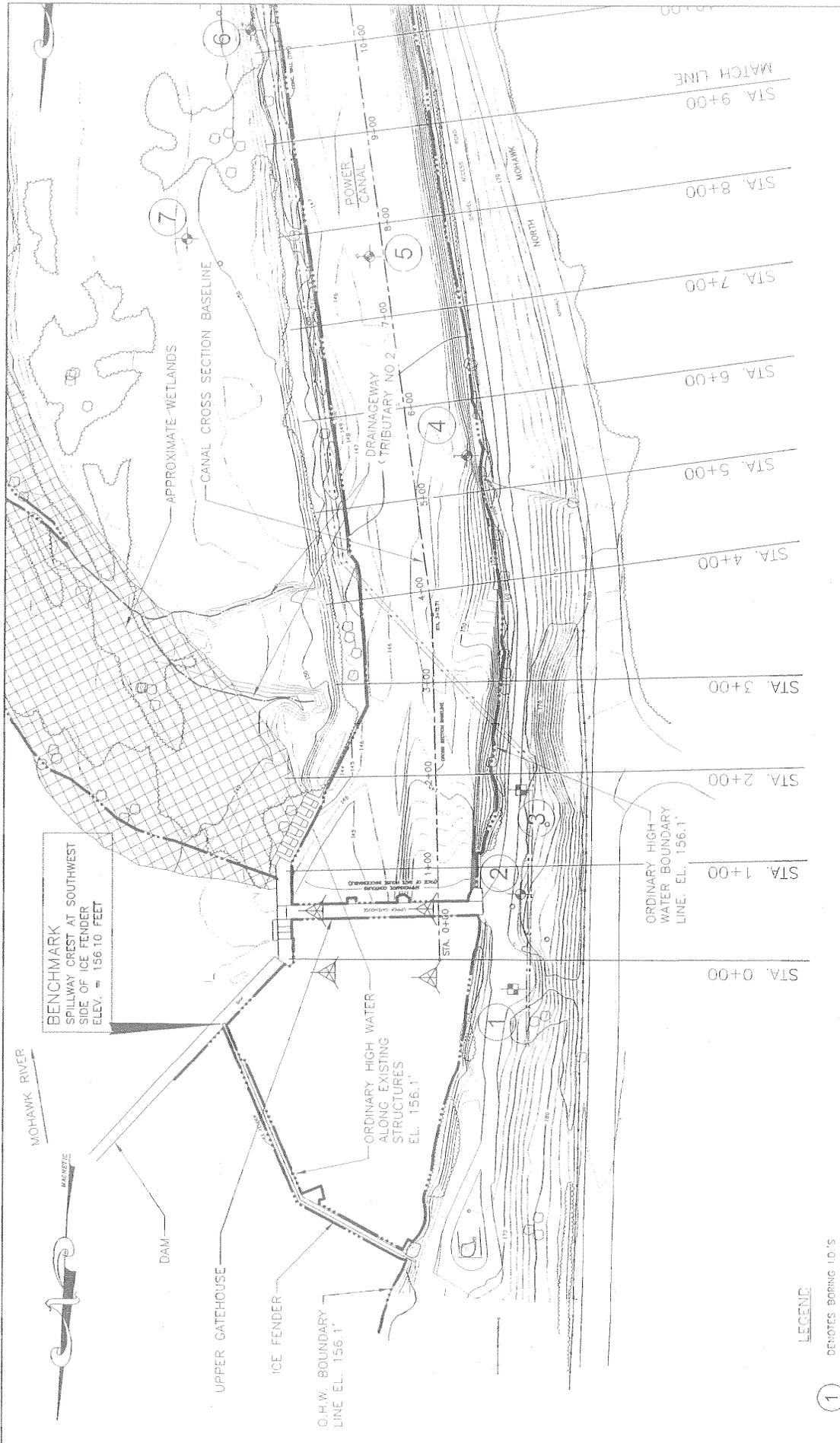


BROOKFIELD POWER, INC.
SCHOOL ST. HYDROELECTRIC STATION - COHOES, NY
POWER CANAL SEDIMENT AND BEDROCK
DISPOSITION PLAN

SITE LOCATION MAP

 **ARCADIS** BBL
Infrastructure, environment, facilities

FIGURE
1



ERIC BOULEVARD HYDROPOWER L.P. INDICATED POWER IN		DATE: AS SHOWN	PROJECT: 1562-WBR
SCHOOL ST SETTLEMENT UPGRADES CORCHES, NY		DESIGNED BY: KLEINSCHMIDT	SCALE: AS SHOWN
CANAL EXCAVATION PLAN SHEET 1		ISSUED FOR AGENCY REVIEW: 10/23/08	PROJECT NO.: 1562-WBR
Kleinschmidt A Division of Brown Brothers Construction		ISSUED FOR CLIENT REVIEW: 10/15/08	CLIENT: ERIE BOULEVARD HYDROPOWER L.P.
FIGURE CE-1		ISSUED FOR AGENCY REVIEW: 10/15/08	DATE: 10/15/08
		ISSUED FOR AGENCY REVIEW: 10/15/08	REVISION: 10/15/08

1 DENOTES BORING 1.0'S
 DENOTES APPROXIMATE SOIL BORING LOCATIONS
 DENOTES APPROXIMATE ROCK BORING LOCATIONS
 DENOTES FUTURE BORING LOCATIONS
 DENOTES 1991 TEST PIT LOCATION

BENCHMARK
 SPILLWAY CREST AT SOUTHWEST
 SIDE OF ICE FENDER
 ELEV. = 156.10 FEET

ORDINARY HIGH WATER
 ALONG EXISTING
 STRUCTURES
 EL. 156.1'

ORDINARY HIGH
 WATER BOUNDARY
 LINE, EL. 156.1'

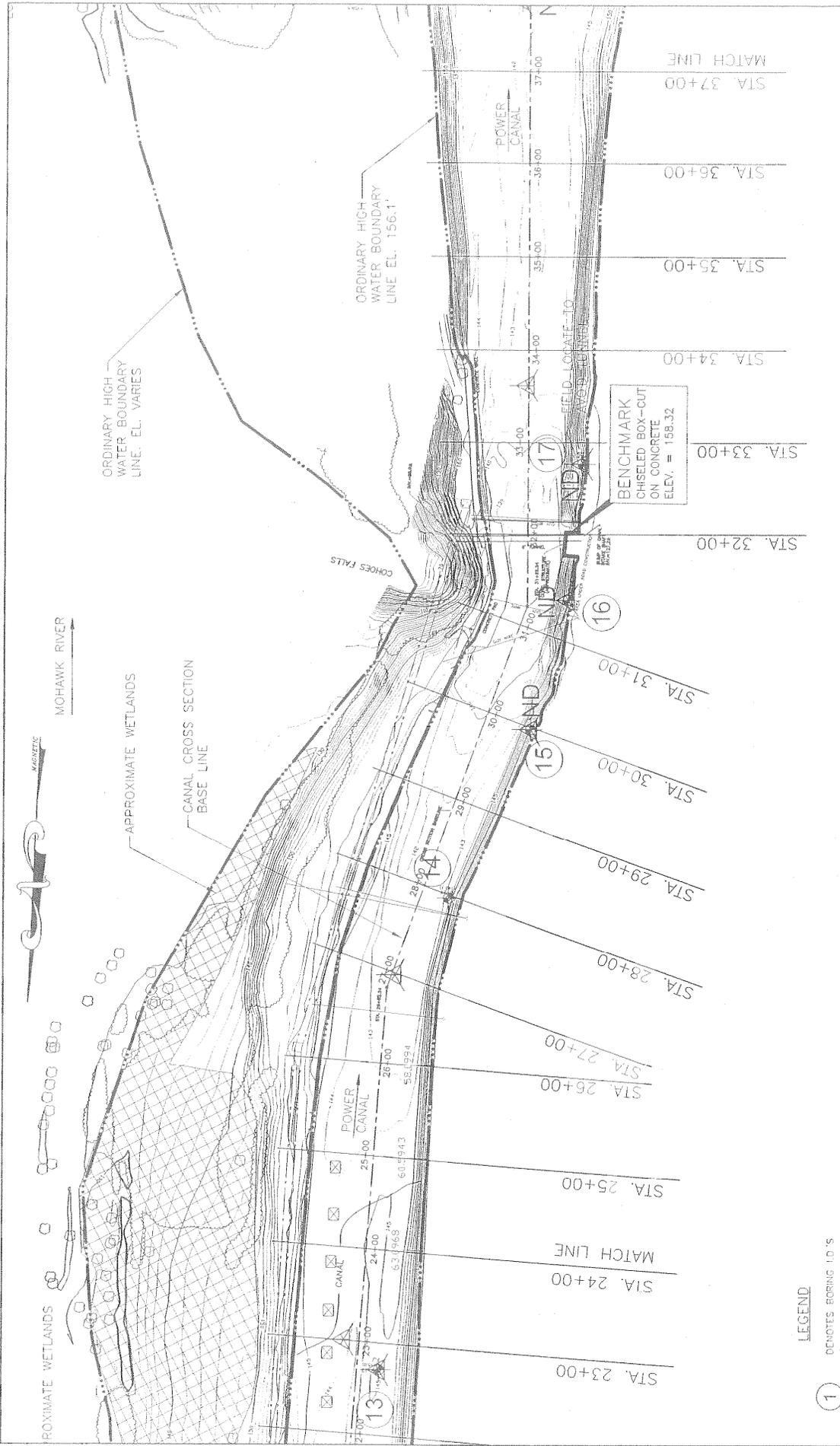
MOHAWK RIVER
 DAM
 UPPER GATEHOUSE
 ICE FENDER
 O.H.W. BOUNDARY
 LINE EL. 156.1'

APPROXIMATE WETLANDS
 CANAL CROSS SECTION BASELINE
 DRAINAGEWAY TRIBUTARY NO. 2
 POWER CANAL
 MOHAWK NORTH
 SCHOOL ST
 ACCESS ROAD
 CANAL EXCAVATION PLAN
 SHEET 1

STA. 0+00
 STA. 1+00
 STA. 2+00
 STA. 3+00
 STA. 4+00
 STA. 5+00
 STA. 6+00
 STA. 7+00
 STA. 8+00
 STA. 9+00
 MATCH LINE

50 0 50 100
 SCALE IN FEET

TOPOGRAPHICAL SURVEY DATA PROVIDED BY
 EDWARD W. BOETTLE & SONS
 ENGINEERS AND SURVEYORS
 DECEMBER, 2003



PROJECT	ERIE BOULEVARD HYDROPOWER PROJECT
CLIENT	SCHOOL ST. SETTLEMENT UPGRADES
DATE	COHES, NY
DESIGNED BY	CLARENCE W. BOETTLE & SON
CHECKED BY	CLARENCE W. BOETTLE & SON
ISSUED FOR AGENCY REVIEW	07-23-00
ISSUED FOR CLIENT REVIEW	07-23-00
ISSUED FOR AGENCY REVIEW	07-23-00
ISSUED FOR AGENCY REVIEW	07-23-00
DATE	07-23-00
SCALE	AS SHOWN
PROJECT NO.	2000
PROJECT NAME	ERIE BOULEVARD HYDROPOWER PROJECT
PROJECT LOCATION	COHES, NY
PROJECT OWNER	NY STATE THRUWAY AUTHORITY
PROJECT NO.	2000
PROJECT NAME	ERIE BOULEVARD HYDROPOWER PROJECT
PROJECT LOCATION	COHES, NY
PROJECT OWNER	NY STATE THRUWAY AUTHORITY

NO.	REVISION	DATE
1	ISSUED FOR AGENCY REVIEW	07-23-00
2	ISSUED FOR CLIENT REVIEW	07-23-00
3	ISSUED FOR AGENCY REVIEW	07-23-00
4	ISSUED FOR AGENCY REVIEW	07-23-00

TOPOGRAPHICAL SURVEY DATA PROVIDED BY EDWARD W. BOETTLE & SON, COHES, NY, IN DECEMBER, 2000.

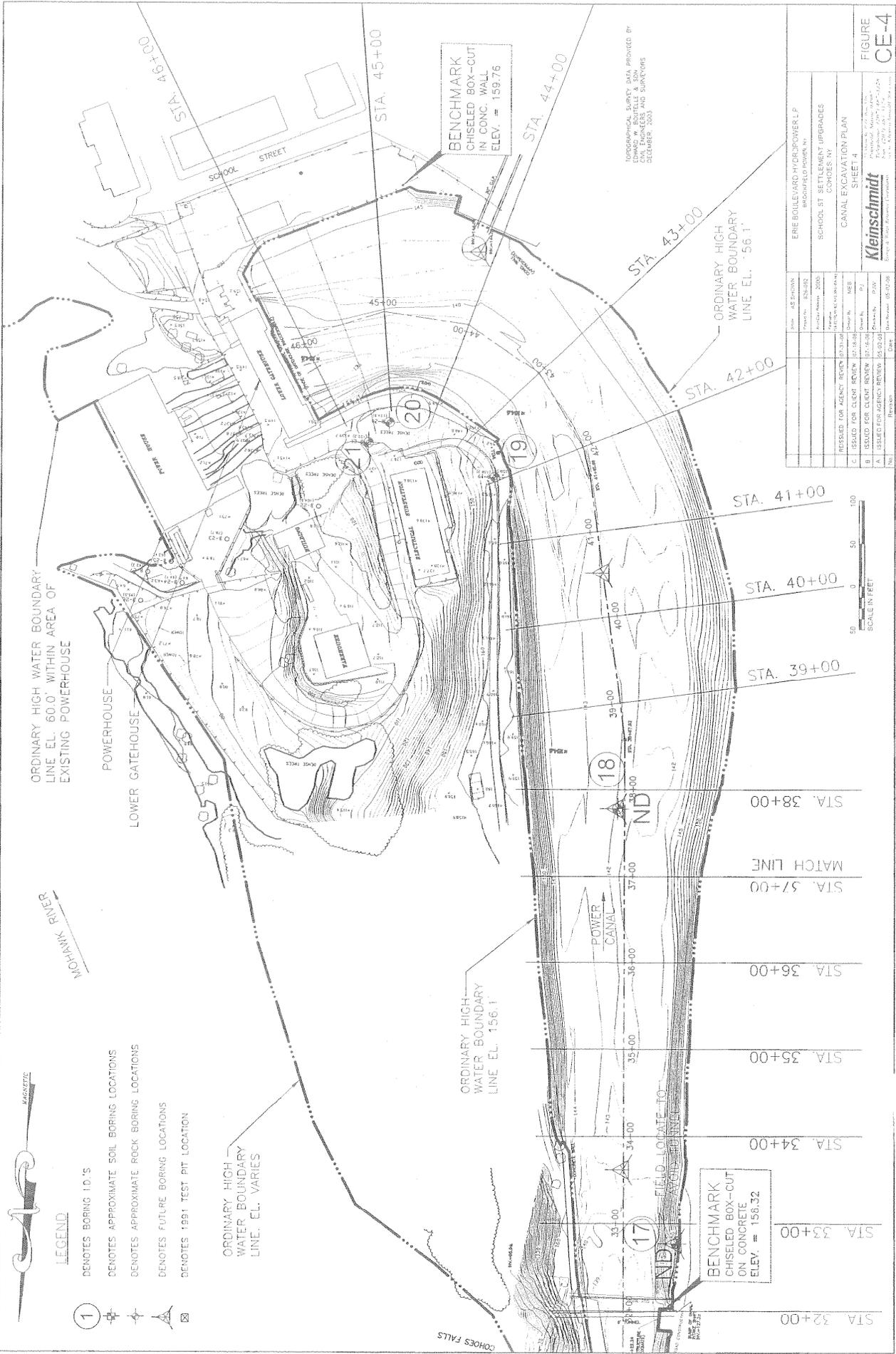
SCALE IN FEET

0 50 100

LEGEND

- ① DENOTES BORING 1.0'S
- ⊕ DENOTES APPROXIMATE SOIL BORING LOCATIONS
- ⊖ DENOTES APPROXIMATE ROCK BORING LOCATIONS
- ⚠ DENOTES FUTURE BORING LOCATIONS
- ⊗ DENOTES 1991 TEST PIT LOCATION

FIGURE CE-3



LEGEND

- ① DENOTES BORING I.D.'S
- ⊕ DENOTES APPROXIMATE SOIL BORING LOCATIONS
- ⊕ DENOTES APPROXIMATE ROCK BORING LOCATIONS
- ⊕ DENOTES FUTURE BORING LOCATIONS
- ⊕ DENOTES 1991 TEST PIT LOCATION

ORDINARY HIGH WATER BOUNDARY LINE. EL. VARIES

ORDINARY HIGH WATER BOUNDARY LINE EL. 156.1

BENCHMARK CHISELED BOX-CUT ON CONCRETE ELEV. = 150.32

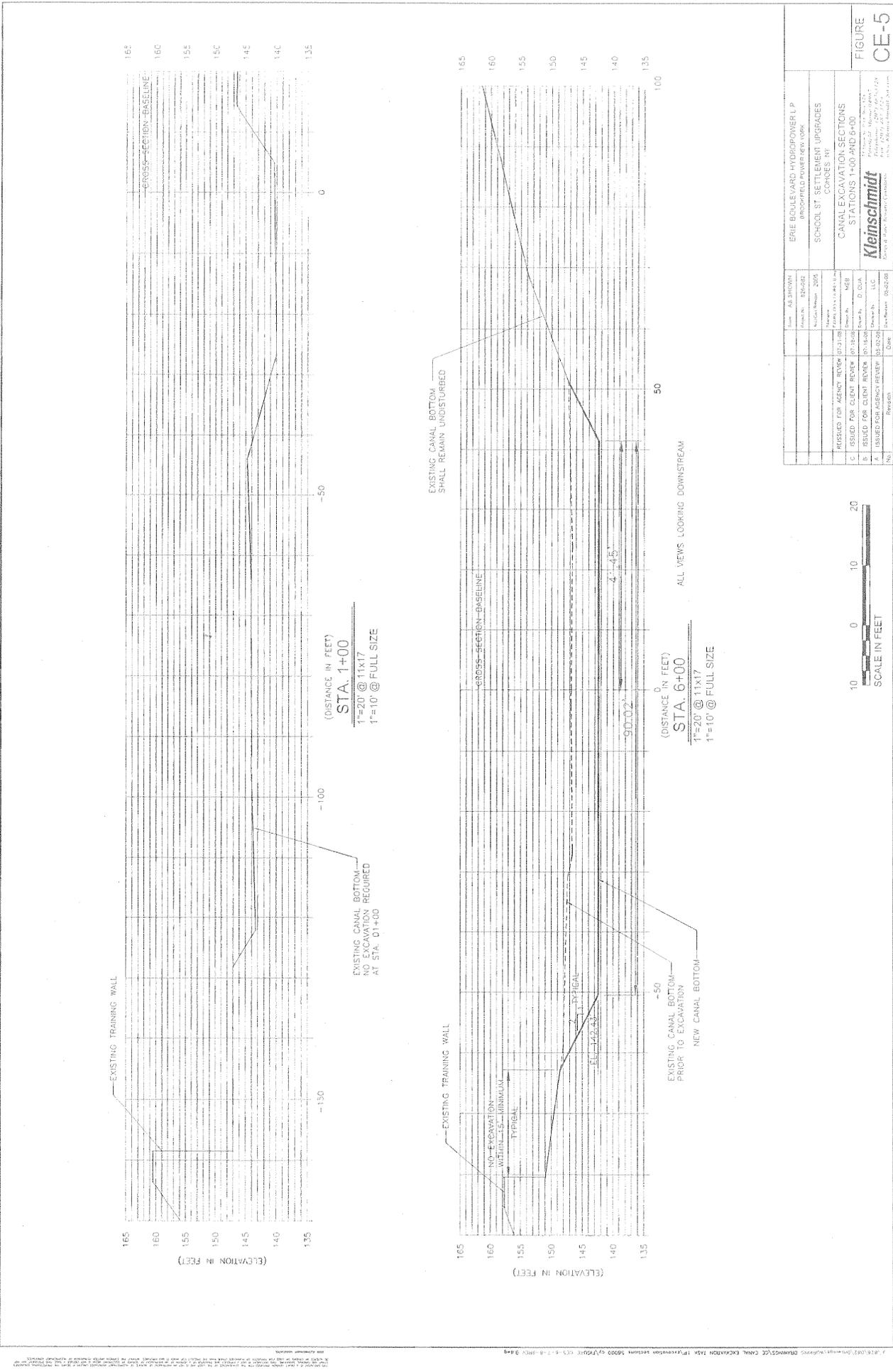
BENCHMARK CHISELED BOX-CUT IN CONC. WALL ELEV. = 159.76

ORDINARY HIGH WATER BOUNDARY LINE EL. 156.1

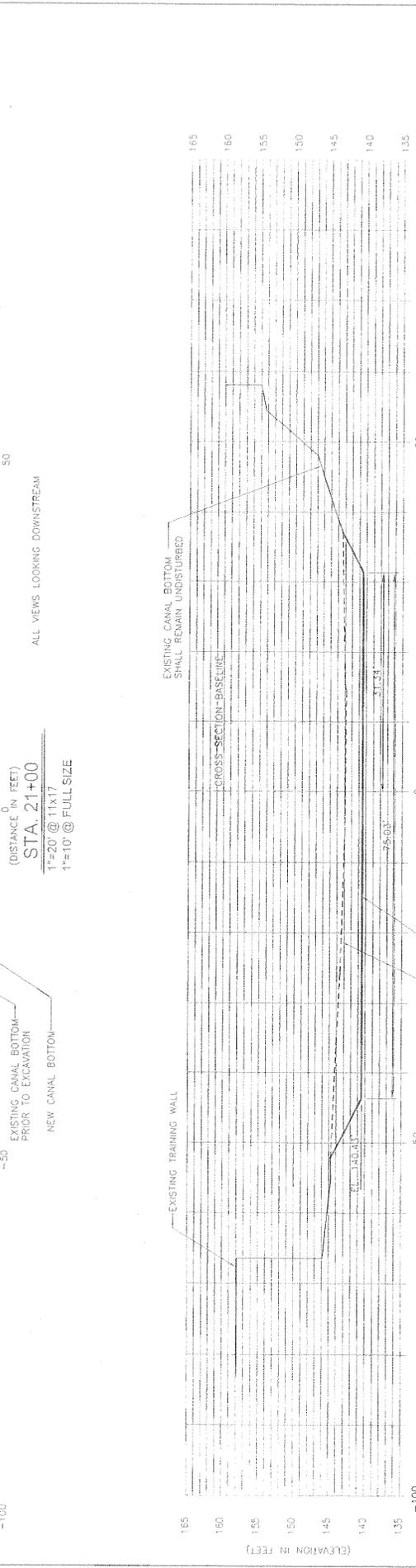
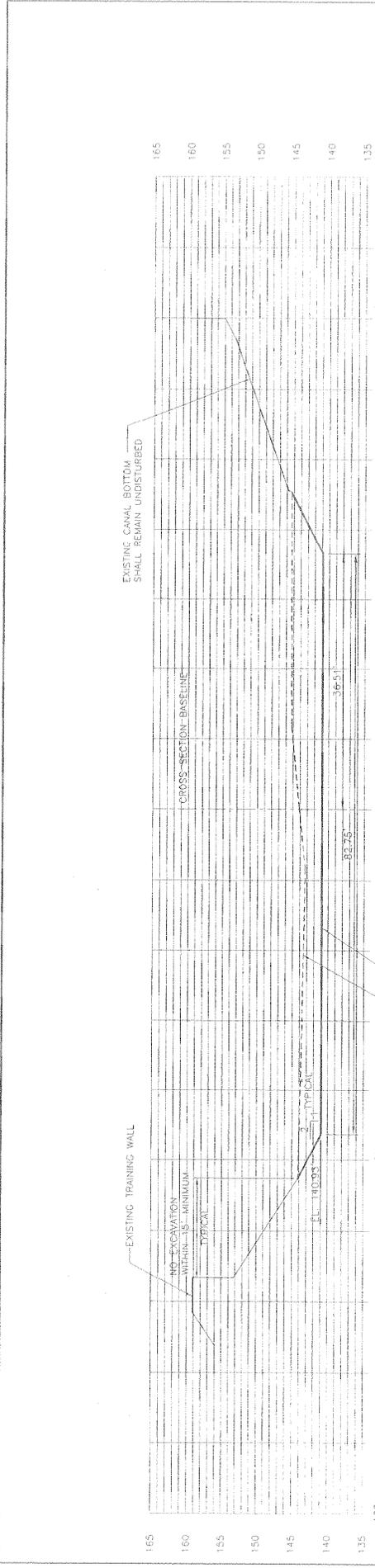
STA. 32+00
STA. 33+00
STA. 34+00
STA. 35+00
STA. 36+00
STA. 37+00
STA. 38+00
STA. 39+00
STA. 40+00
STA. 41+00
STA. 42+00
STA. 43+00
STA. 44+00
STA. 45+00
STA. 46+00

SCALE IN FEET
0 50 100

Project No.	AS 2000-001	Client	ERIE BOULEVARD HYDROPOWER L.P.
Project Name	BRIDGE	Location	BRIDGEFIELD POWER NY
Project Date	2000	Project No.	SCHOOL ST. SETBACK UPGRADES
Project Status	2000	Project Name	CONDES. NY
Project Description	BRIDGE	Project No.	CANAL EXCAVATION PLAN
Project Status	2000	Project Name	SHEET 4
Project Description	BRIDGE	Project No.	FIGURE
Project Status	2000	Project Name	CE-4



Project No.	2005
Revision No.	1
Revision Description	AS SHOWN
Scale	AS SHOWN
Author	AS SHOWN
Checked	AS SHOWN
Date	AS SHOWN
Drawn	AS SHOWN
Project Name	ERIE BOULEVARD HYDROPOWER L.P. BROOKFIELD POWER NEW YORK
Project Location	SCHOOL ST SETTLEMENT UPGRADES CANAL EXCAVATION SECTIONS STATIONS 1+00 AND 6+00
Client	Kleinschmidt
Scale	AS SHOWN
Figure No.	CE-5



(DISTANCE IN FEET)
STA. 21+00
 1"=20' @ 11x17
 1"=10' @ FULL SIZE

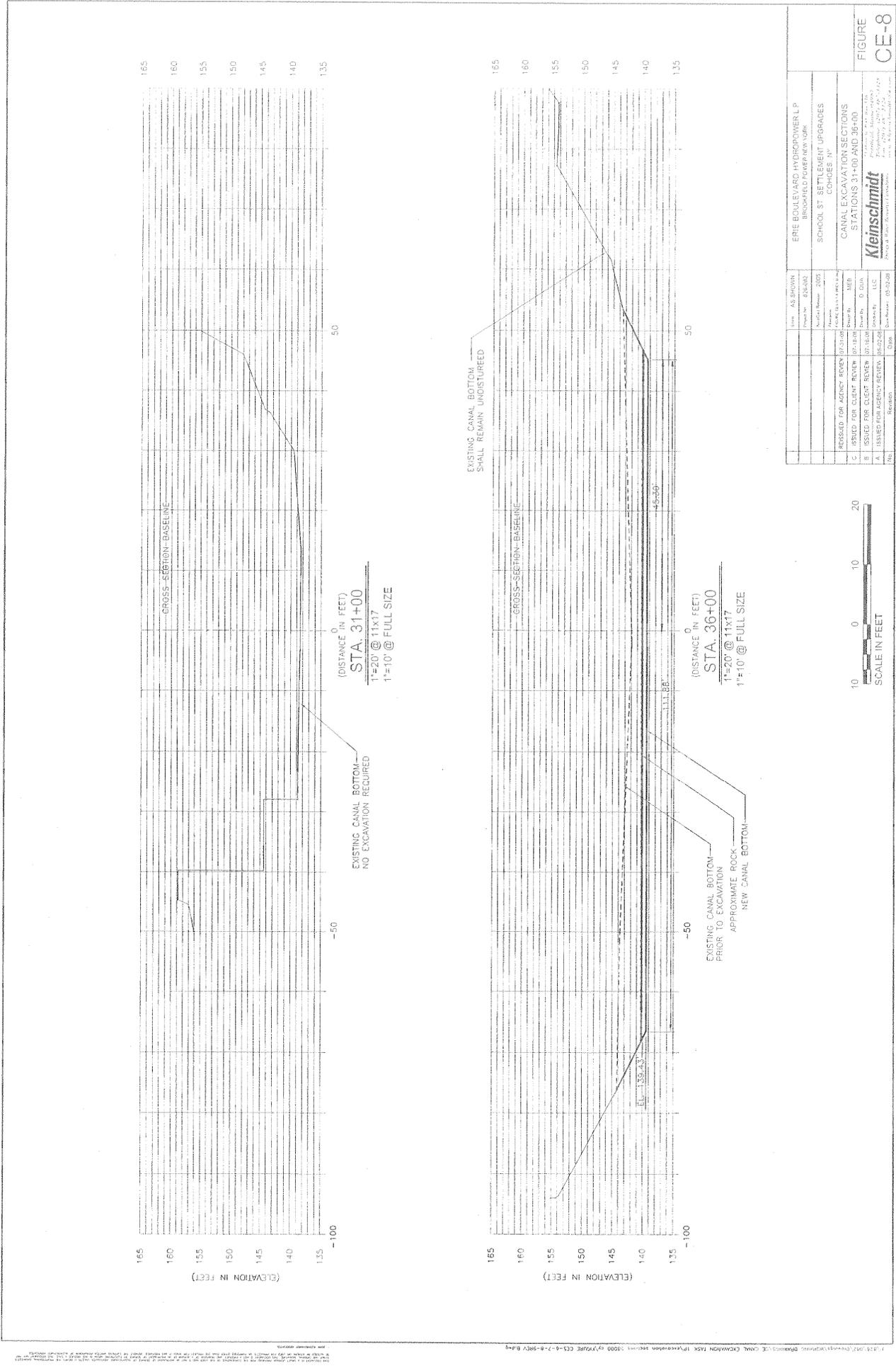
(DISTANCE IN FEET)
STA. 26+00
 1"=20' @ 11x17
 1"=10' @ FULL SIZE

10 0 10 20
 SCALE IN FEET

Drawn	AS SHOWN	Project	ERIENET	Client	ERIE BOULEVARD HYDROPOWER L.P.
Checked	ERIENET	Drawn	ERIENET	Project	BROOKFIELD POWER NEW YORK
Reviewed	ERIENET	Scale	AS SHOWN	Project	SCHOOL ST SETTLEMENT UPGRADES
Approved	ERIENET	Sheet	ERIENET	Project	COHUES, NY
Revision	ERIENET	Quantity	ERIENET	Project	CANAL EXCAVATION SECTIONS
Revision	ERIENET	Quantity	ERIENET	Project	STATIONS 21+00 AND 26+00

Kleinschmidt
 1000 WEST 12TH AVENUE
 SUITE 1000
 DENVER, COLORADO 80202
 PHONE: 303.733.1100
 FAX: 303.733.1101
 WWW: WWW.KLEINSCHMIDT.COM

FIGURE
CE-7



DATE	AS SHOWN	PROJECT	ERIE BOULEVARD HYDROPOWER L.P. BROOKFIELD POWER NEW YORK
NO.	REVISED	DATE	BY
1	ISSUED FOR AGENCY REVIEW	07/23/07	MEB
2	ISSUED FOR CLIENT REVIEW	07/23/07	MEB
3	ISSUED FOR CLIENT REVIEW	07/23/07	MEB
4	ISSUED FOR AGENCY REVIEW	08/22/07	MEB

NO.	REVISION	DATE	BY
1	ISSUED FOR AGENCY REVIEW	07/23/07	MEB
2	ISSUED FOR CLIENT REVIEW	07/23/07	MEB
3	ISSUED FOR CLIENT REVIEW	07/23/07	MEB
4	ISSUED FOR AGENCY REVIEW	08/22/07	MEB

SCALE IN FEET

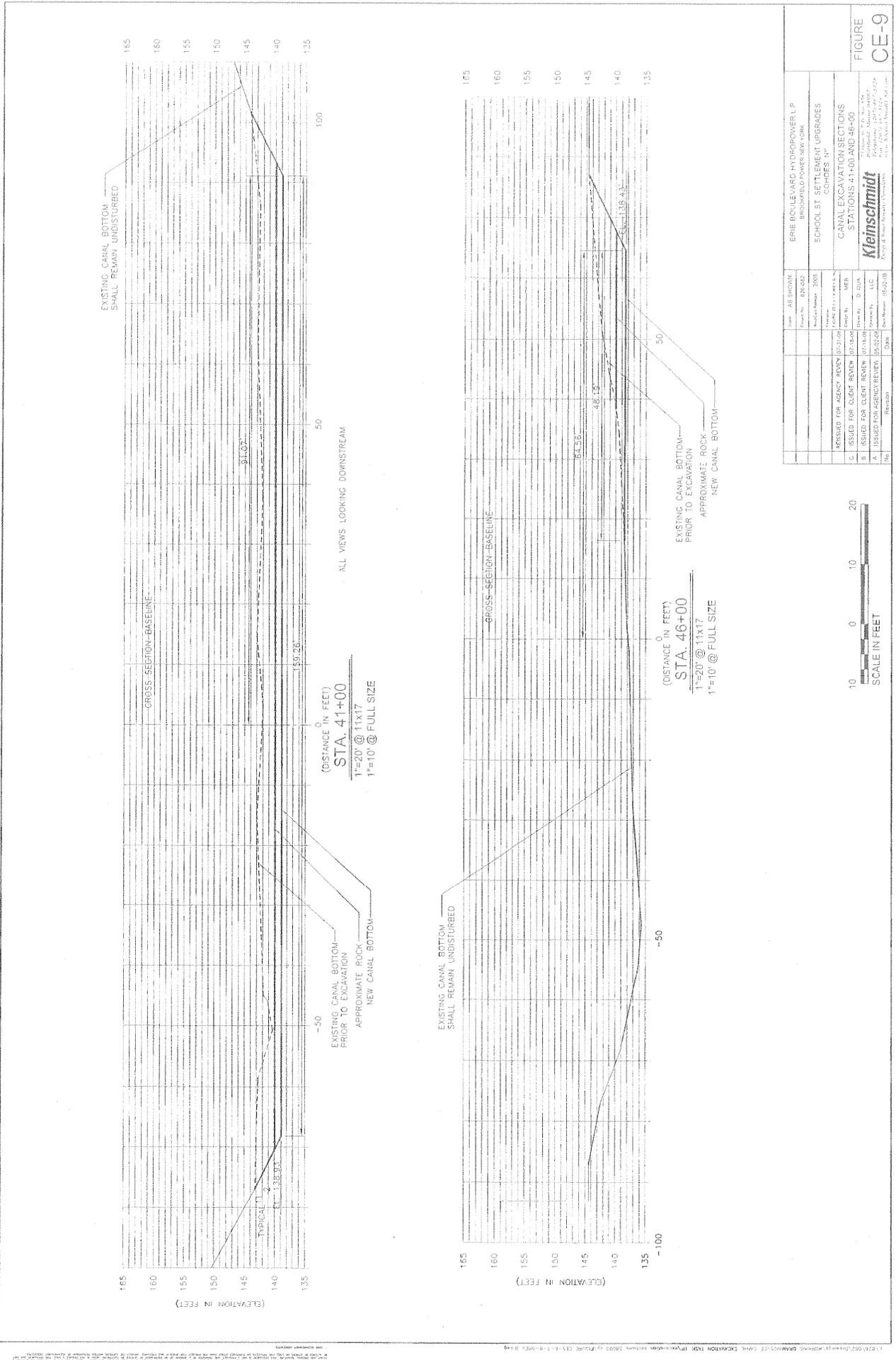
0 10 20

FIGURE CE-8

ERIE BOULEVARD HYDROPOWER L.P.
BROOKFIELD POWER NEW YORK
SCHOOL ST. SETTLEMENT UPGRADES
CHANGES N.Y.

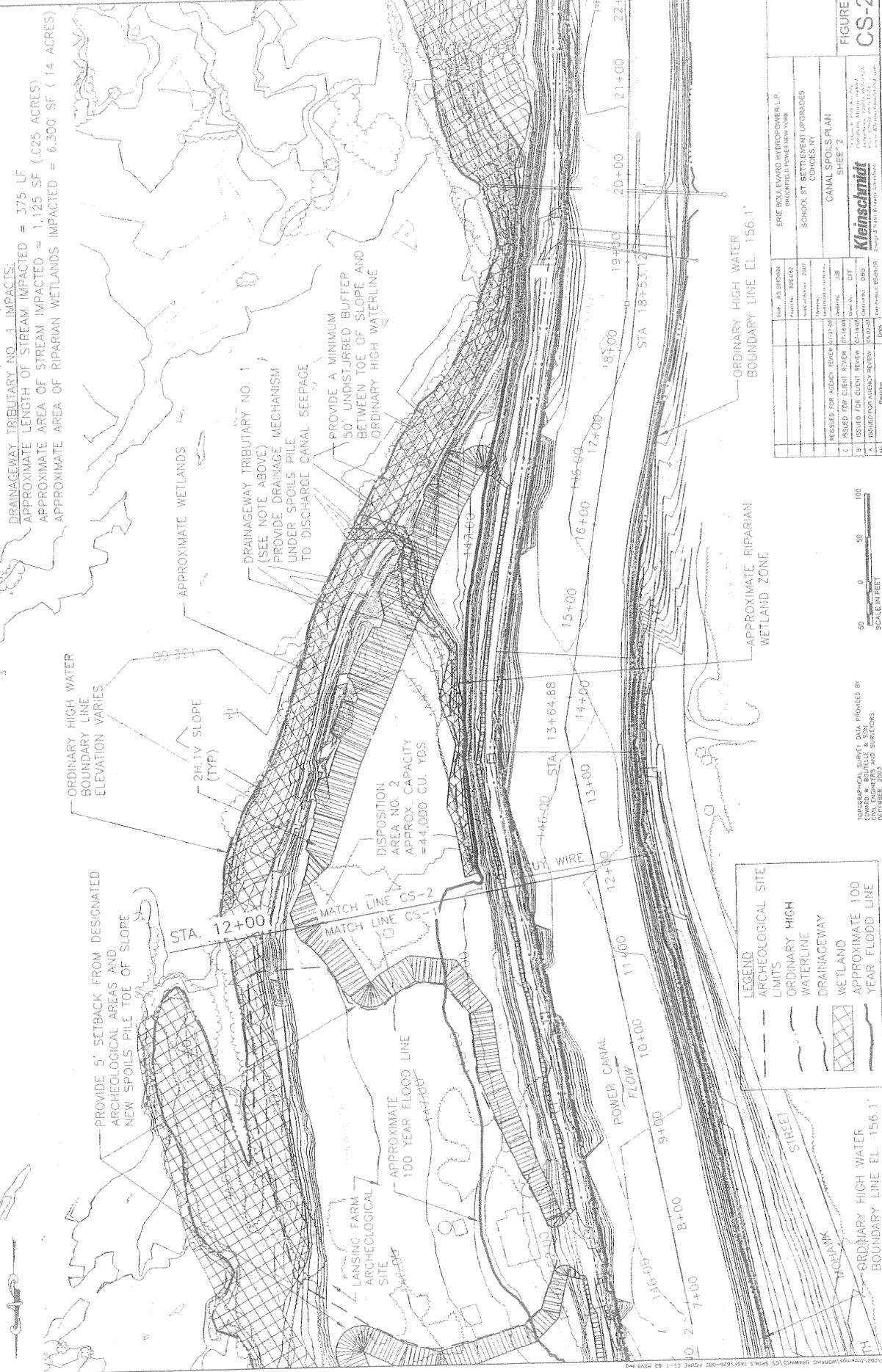
CANAL EXCAVATION SECTIONS
STATIONS 31+00 AND 36+00

Kleinschmidt
A Division of Jacobs Engineering Group, Inc.
1000 Pennsylvania Avenue, N.W.
Washington, D.C. 20004



Project No.	AS SHOWN	ERIC BOULEVARD HYDROPOWER, L.P.
Sheet Number	2005	DISBURSED AND RECOVERED DATA
Scale	AS SHOWN	SCHOOL ST SETTLEMENT UPGRADES
Revision	05-02-05	CHANGES: N*
Date	05-02-05	CANAL EXCAVATION SECTIONS
Author	05-02-05	STATIONS 41+00 AND 46+00
Checked	05-02-05	
Drawn	05-02-05	
Reviewed	05-02-05	
Approved	05-02-05	
Scale	AS SHOWN	

FIGURE
CE-9



DRAINAGEWAY TRIBUTARY NO. 1 IMPACTS:
 APPROXIMATE LENGTH OF STREAM IMPACTED = 375 LF
 APPROXIMATE AREA OF STREAM IMPACTED = 1,125 SF (0.25 ACRES)
 APPROXIMATE AREA OF RIPARIAN WETLANDS IMPACTED = 6,300 SF (14 ACRES)

DRAINAGEWAY TRIBUTARY NO. 1
 (SEE NOTE ABOVE)
 PROVIDE DRAINAGE MECHANISM
 UNDER SPOILS PILE
 TO DISCHARGE CANAL SEEPAGE
 PROVIDE A MINIMUM
 50' UNDISTURBED BUFFER
 BETWEEN TOE OF SLOPE AND
 ORDINARY HIGH WATERLINE

ORDINARY HIGH WATER
 BOUNDARY LINE EL. 156.1'

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
2	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
3	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
4	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
5	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
6	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
7	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
8	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
9	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
10	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
2	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
3	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
4	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
5	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
6	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
7	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
8	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
9	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
10	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
2	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
3	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
4	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
5	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
6	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
7	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
8	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
9	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
10	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
2	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
3	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
4	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
5	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
6	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
7	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
8	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
9	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
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NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
2	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
3	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
4	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
5	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
6	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
7	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
8	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
9	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
10	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
2	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
3	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
4	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
5	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
6	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
7	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
8	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW
9	ISSUED FOR AGENCY REVIEW (02/03)	02/03	EDW	EDW
10	ISSUED FOR CLIENT REVIEW (02/03)	02/03	EDW	EDW

SCALE IN FEET
 0 50 100

TOPOGRAPHICAL SURVEY DATA PROVIDED BY
 EDWARD W. BOUTELLE & ASSOCIATES
 1000 W. 10TH STREET
 DECEMBER, 2003

LEGEND
 ARCHEOLOGICAL SITE LIMITS
 ORDINARY HIGH WATERLINE
 DRAINAGEWAY
 WETLAND
 APPROXIMATE 100 YEAR FLOOD LINE

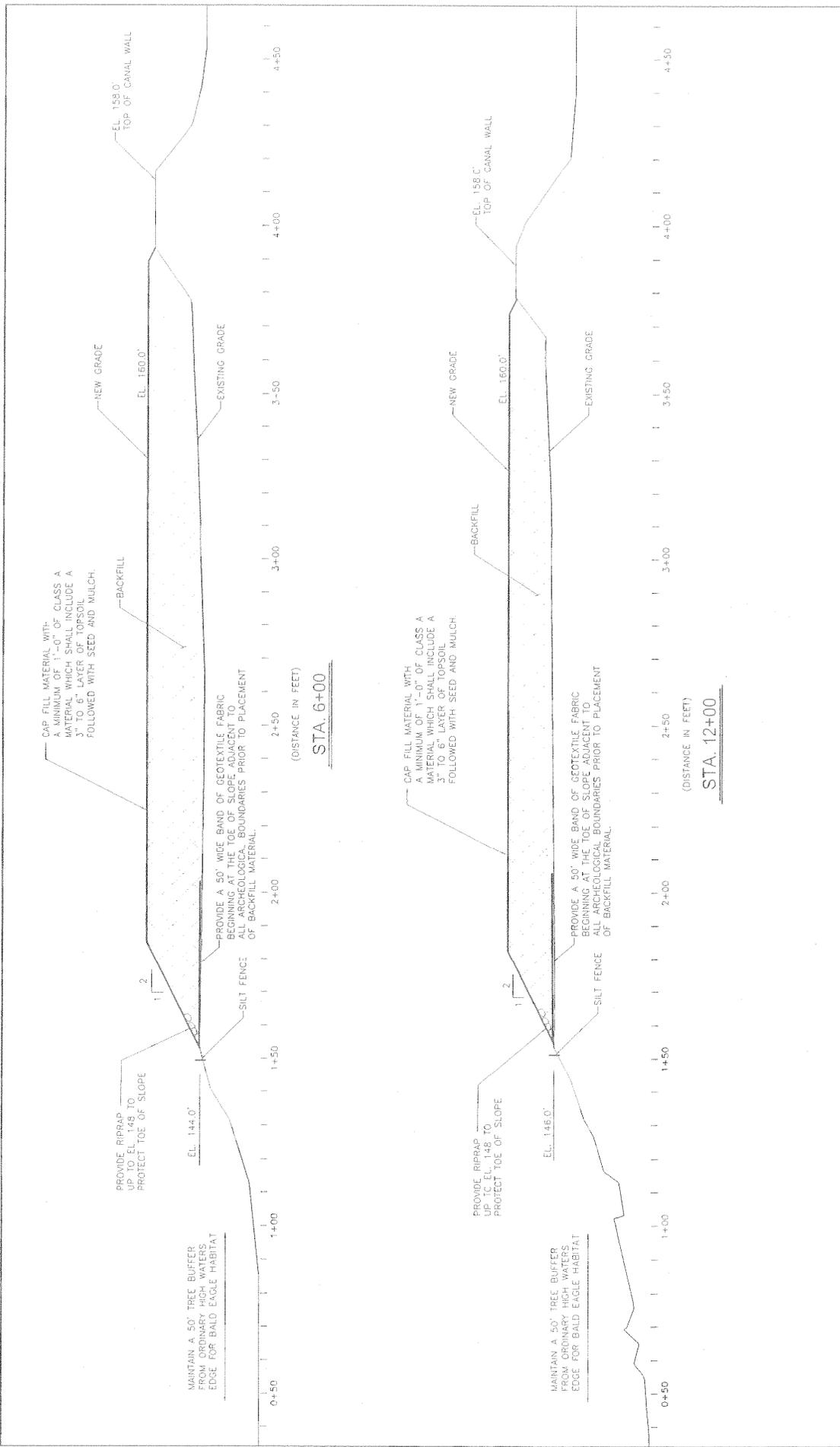
ORDINARY HIGH WATER
 BOUNDARY LINE EL. 156.1'

ORDINARY HIGH WATER
 BOUNDARY LINE EL. 156.1'

NAN-2007-1562-WBR
 Erie Boulevard Hydropower, L.P.
 Sheet 12 of 24

FIGURE
 CS-2

SHRIMP & COMPANY
 1000 W. 10TH STREET
 ALBANY, NY 12206
 518-865-1111



ERIE BOULEVARD HYDROPOWER, L.P. PROPOSED SETTLEMENT UPGRADES SCHOOL ST. SETTLEMENT UPGRADES CHILDESS, NY	
Date: 05/20/08 Project: 2007 Revision: 00-20/08	Drawn: JFB Checked: JFB Date: 05/20/08
C. ISSUED FOR AGENCY REVIEW (07-10-08) B. ISSUED FOR CLIENT REVIEW (07-10-08) A. ISSUED FOR AGENCY REVIEW (04-02-08)	Date: 05/20/08 Date: 07-10-08 Date: 04-02-08
SECTION: CANAL SPOILS FIGURE: CS-3	

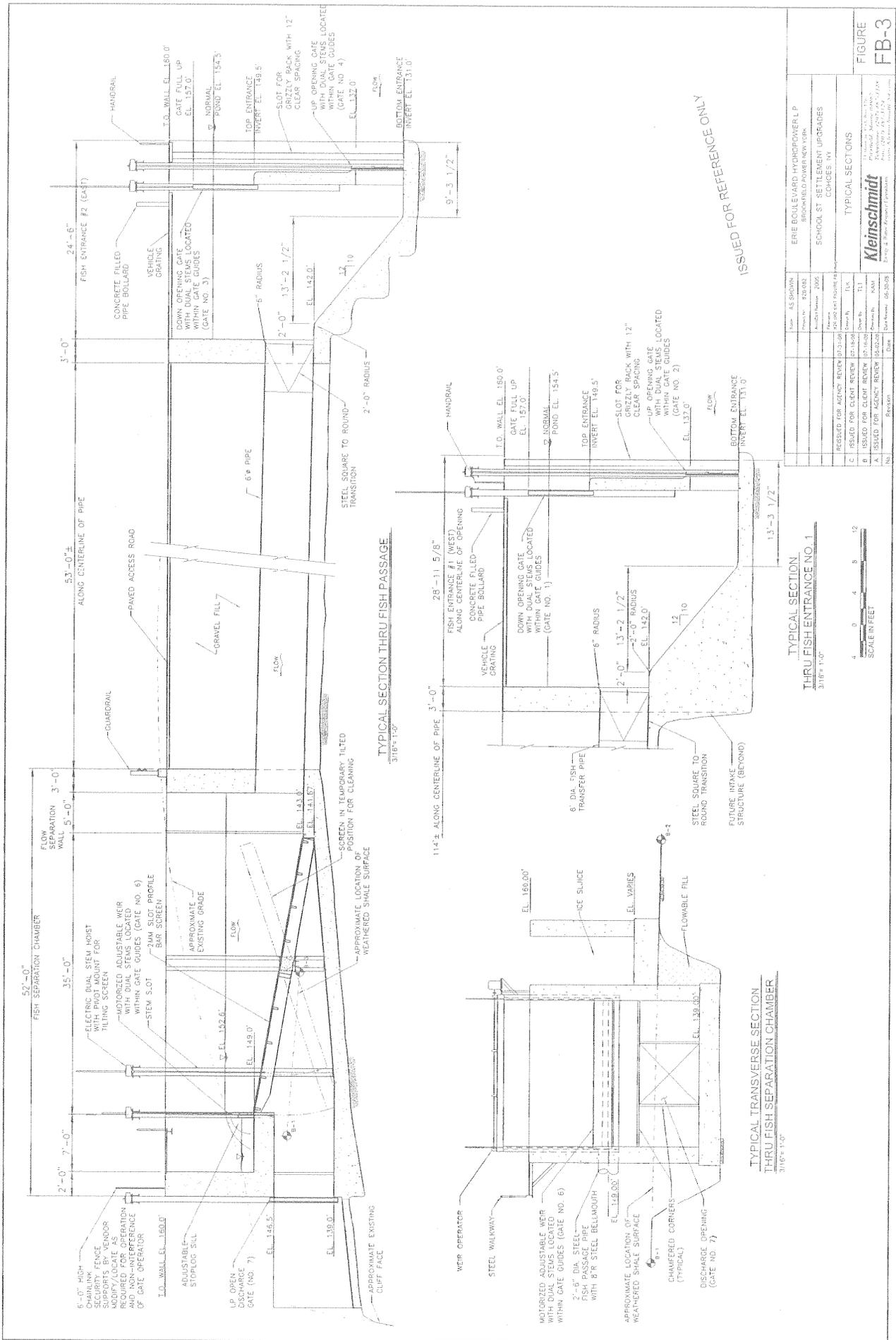


NOTE: ALL SECTIONS ARE TAKEN LOOKING DOWNSTREAM



NOTE: FOR SECTIONS AND DETAILS, SEE FIGURE CS-5

ERIC BOULEVARD HYDROPOWER L.P. WINDY RIDGE HYDROPOWER CORP.	
SCHOOL ST. SETTLEMENT UPGRADES COMBOS, NY	
CANAL SPOILS TOE DRAIN SYSTEM PLAN	
Kleinschmidt Professional Engineers, Inc. 1000 Erie Boulevard East Syracuse, NY 13210 Tel: 315.435.1100 Fax: 315.435.1101	
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT NO.	DATE
SCALE	DATE
DATE	DATE

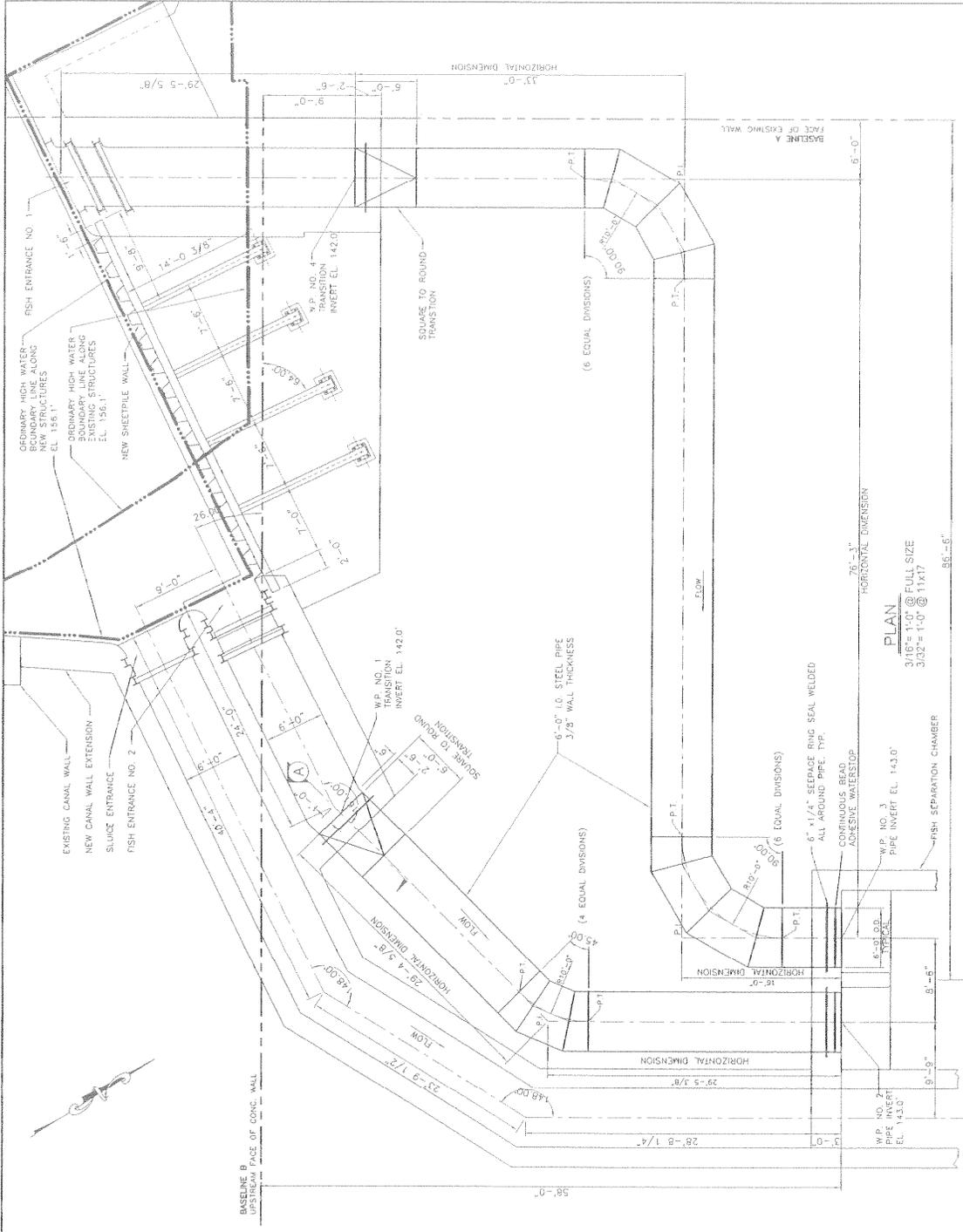


ISSUED FOR REFERENCE ONLY

ERIE BOULEVARD HYDROPOWER L.P. BOULEVARD HYDROPOWER SCHOOL ST SETTLEMENT UPGRADES COCHES, NY	
AS SHOWN REVISION DATE 2006 05-20-06	TYPICAL SECTIONS
ISSUED FOR AGENCY REVIEW (07-18-06) ISSUED FOR CLIENT REVIEW (07-18-06) ISSUED FOR AGENCY REVIEW (05-22-06) ISSUED FOR CLIENT REVIEW (05-22-06)	TYPICAL SECTIONS
REVISION DATE 06-30-06	TYPICAL SECTIONS

TYPICAL SECTION THRU FISH ENTRANCE NO. 1 31/8" x 1'-0"	
SCALE IN FEET 4 0 4 8 12	FIGURE FB-3

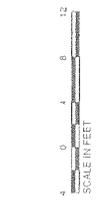
TYPICAL TRANSVERSE SECTION THRU FISH SEPARATION CHAMBER 31/8" x 1'-0"	
Kleinschmidt 11100 20th Ave. S.W. Kent, WA 98032 Phone: 206.835.1200 Fax: 206.835.1201 Email: info@kleinschmidt.com Website: www.kleinschmidt.com	

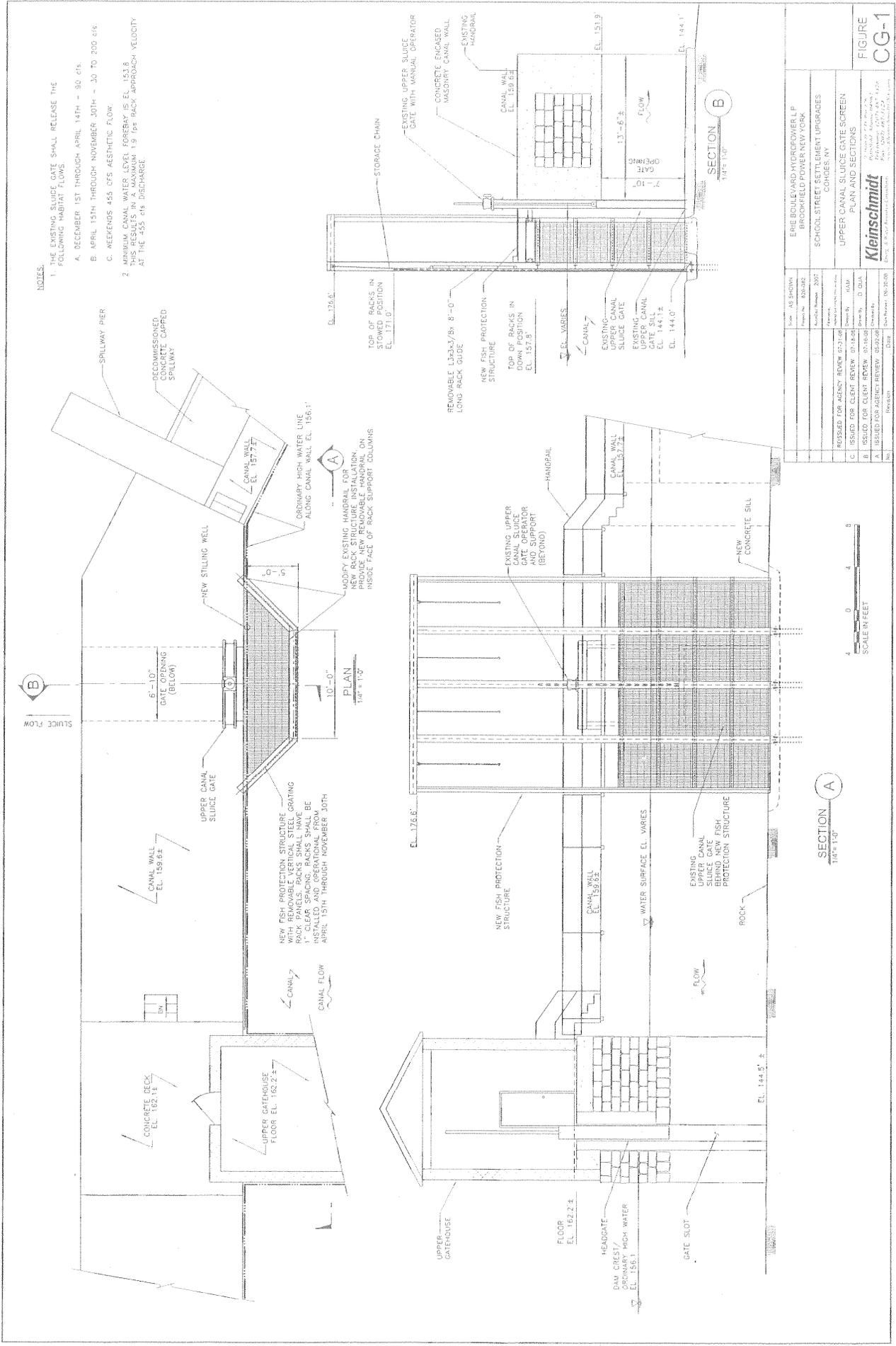


W.P. NO.	FROM BASELINE A	FROM BASELINE B
1	69'-11 5/8"	7'-9 3/8"
2	80'-9"	58'-0"
3	82'-5"	58'-0"
4	6'-0"	9'-0"
5	77'-6"	102'-0"
6	71'-6"	102'-0"
7	18'-10"	77'-9 1/2"

PLAN
 3/16" = 1'-0" @ FULL SIZE
 3/32" = 1'-0" @ 1/4" X 1/4"

NAME: JAS. SCHON PROJECT: SCHOOL STREET SETTLEMENT UPGRADES LOCATION: CHOCOS, NY	
DESIGNED BY: JAS. SCHON DRAWN BY: JAS. SCHON CHECKED BY: JAS. SCHON DATE: 08-30-06	REVISIONS: A ISSUED FOR AGENCY REVIEW (03-22-06) B ISSUED FOR CLIENT REVIEW (07-18-06) C ISSUED FOR AGENCY REVIEW (07-21-06)
PROJECT: SCHOOL STREET SETTLEMENT UPGRADES LOCATION: CHOCOS, NY DRAWING: FISH ENTRANCE SUPPLY PIPES PLAN AND DETAILS Kleinschmidt 100 Spring Street, Suite 200 Chocomaug, CT 06257-1474 Phone: 860-339-1474 Fax: 860-339-1474 Email: info@kleinschmidt.com	
FIGURE	FB-5





- NOTES**
1. THE EXISTING SLUICE GATE SHALL RELEASE THE FOLLOWING HABITAT FLOWS.
 - A. DECEMBER 1ST THROUGH APRIL 14TH - 90 cfs.
 - B. APRIL 15TH THROUGH NOVEMBER 30TH - 30 TO 200 cfs.
 - C. REPENDS ON CFS AESTHETIC FLOW.
 2. MINIMUM CANAL WATER LEVEL FOREBAY IS EL. 153.6. THE MINIMUM 1/8" TYPE RACK APPROACH VELOCITY AT THE 455 G/S DISCHARGE.

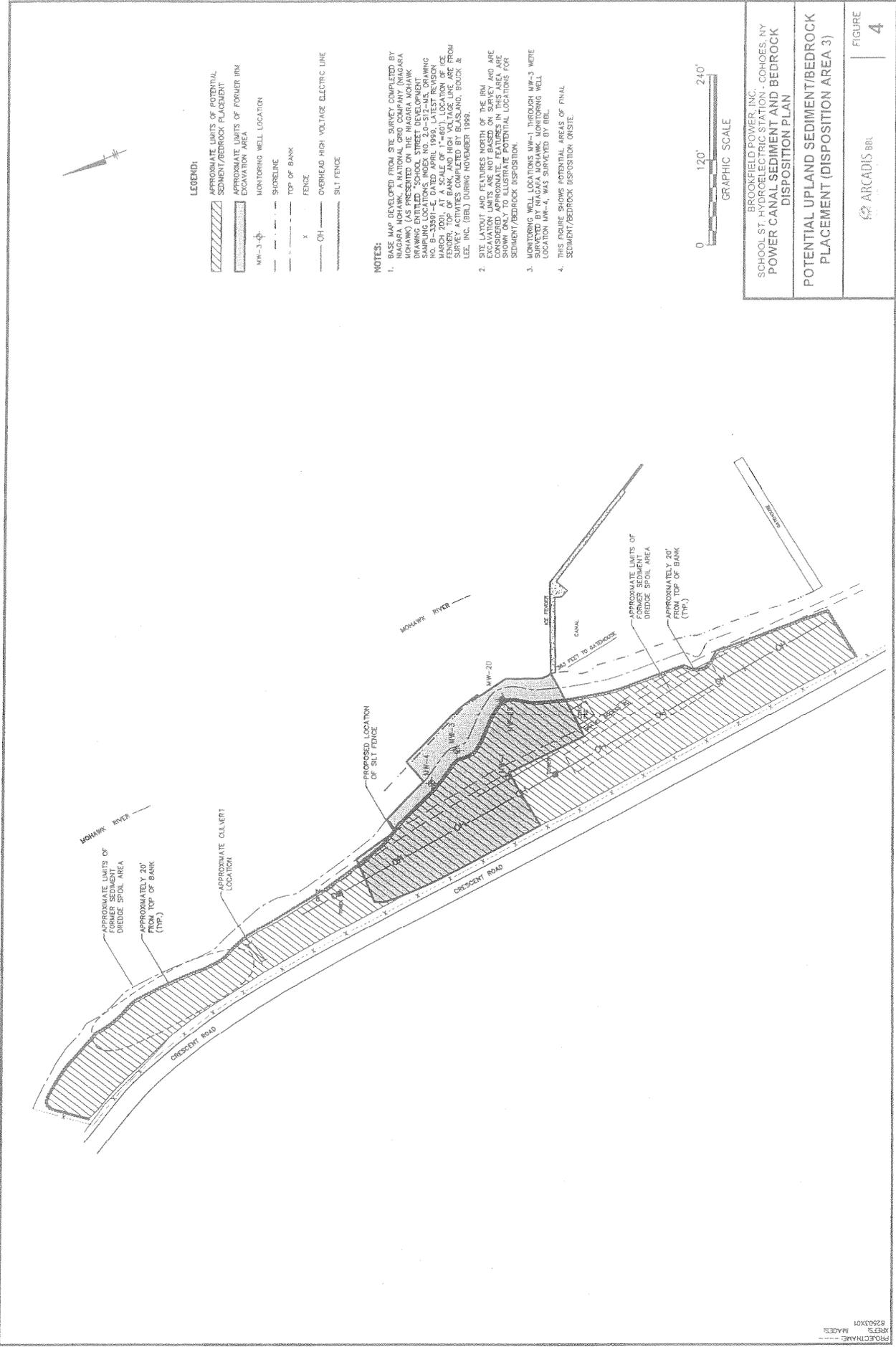
SPILLWAY PIER
 DECOMMISSIONED CONCRETE CAPRED SPILLWAY
 CANAL WALL EL. 157.7 ±
 DRAINAGE HIGH WATER LINE ALONG CANAL WALL EL. 156.1 ±
 NEW STILLING WELL
 6'-10" GATE OPENING (BELOW)
 UPPER CANAL SLUICE GATE
 CANAL WALL EL. 159.6 ±
 NEW FISH PROTECTION STRUCTURE GRATING RACK PANELS. RACKS SHALL HAVE 1" CLEAR SPACING. RACKS SHALL BE INSTALLED AND OPERATIONAL FROM APRIL 15TH THROUGH NOVEMBER 30TH.
 CONCRETE DECK EL. 162.1 ±
 UPPER GATEHOUSE FLOOR EL. 162.2 ±
 10'-0" PLAN 1/4" = 1'-0"

EL. 176.6 ±
 TOP OF RACKS IN EXISTING POSITION EL. 171.0 ±
 REMOVABLE L3X3 1/8" 8'-0" LONG RACK GUIDE
 NEW FISH PROTECTION STRUCTURE
 TOP OF RACKS IN DOWN POSITION EL. 157.8 ±
 EL. VARIES
 EXISTING UPPER SLUICE GATE
 EXISTING UPPER CANAL EL. 144.1 ±
 EL. 144.0 ±
 EL. 144.1 ±
 EL. 151.9 ±
 13'-6" ±
 FLOW
 7'-10" OPERABLE
 EXISTING UPPER SLUICE GATE
 CONCRETE BUSAGED MASONRY CANAL WALL
 EXISTING HANDRAIL
 STORAGE CHAIN
 EXISTING UPPER SLUICE GATE WITH MANUAL OPERATOR
 SECTION B 1/4" = 1'-0"

EL. 176.6 ±
 HANDRAIL
 EXISTING UPPER GATE OPERATOR AND SUPPORT (BEYOND)
 CANAL WALL EL. 157.7 ±
 NEW CONCRETE SILL
 SECTION A 1/4" = 1'-0"

SCALE IN FEET
 0 4 8

ERIE BOULEVARD HYDROPOWER L.P. BROOKFIELD POWER NEW YORK SCHOOL STREET SETTLEMENT UPGRADES COHOES, NY	
Title: AS SHOWN Project No.: 8201482 Revision: 2007	Date: 04/24/07 Drawn By: O. DIAZ Checked By: J. M. MURPHY Date: 04/24/07
REVISIONS FOR AGENCY REVIEW (03/17/08) B. ISSUED FOR CLIENT REVIEW (03/17/08) A. ISSUED FOR AGENCY REVIEW (03/17/08)	PROJECT NO.: 8201482 SHEET NO.: 21 OF 24 DATE: 04/24/07
Plan and Sections CG-1	



- LEGEND:**
- APPROXIMATE LIMITS OF POTENTIAL SEDIMENT/BEDROCK PLACEMENT
 - APPROXIMATE LIMITS OF FORMER IIRN EXCAVATION AREA
 - MONITORING WELL LOCATION
 - MW-3
 - SHORELINE
 - TOP OF BANK
 - FENCE
 - OH OVERHEAD HIGH VOLTAGE ELECTRIC LINE
 - SILT FENCE

NOTES:

1. BASE MAP DEVELOPED FROM SITE SURVEY COMPLETED BY NIAGARA MOHAWK, A NATIONAL GRID COMPANY (NIAGARA MOHAWK) (AS PRESENTED ON THE NIAGARA MOHAWK DRAWING ENTITLED "SCHOOL STREET DEVELOPMENT - PRELIMINARY SITE PLAN" DATED APRIL 1999, LATEST REVISION NO. B-33291-C, DATED APRIL 1999, LATEST REVISION MARCH 2001, AT A SCALE OF 1"=60'). LOCATION OF ICE SURVEY ACTIVITY COMPLETED BY BELMONT & BOGERT, L.L.C. (BBL) DURING NOVEMBER 1999.
2. SITE LAYOUT AND FEATURES NORTH OF THE IIRN EXCAVATION LIMITS ARE NOT BASED ON SURVEY AND ARE CONSIDERED APPROXIMATE. FEATURES IN THIS AREA ARE SHOWN FOR INFORMATION. POTENTIAL LOCATIONS FOR SEDIMENT/BEDROCK DEPOSITION.
3. MONITORING WELL LOCATIONS MW-1 THROUGH MW-3 WERE SURVEYED BY BBL USING A MONITORING WELL LOCATION MW-4, WAS SURVEYED BY BBL.
4. THIS FIGURE SHOWS POTENTIAL AREAS OF FINAL SEDIMENT/BEDROCK DEPOSITION ON-SITE.



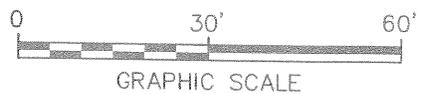
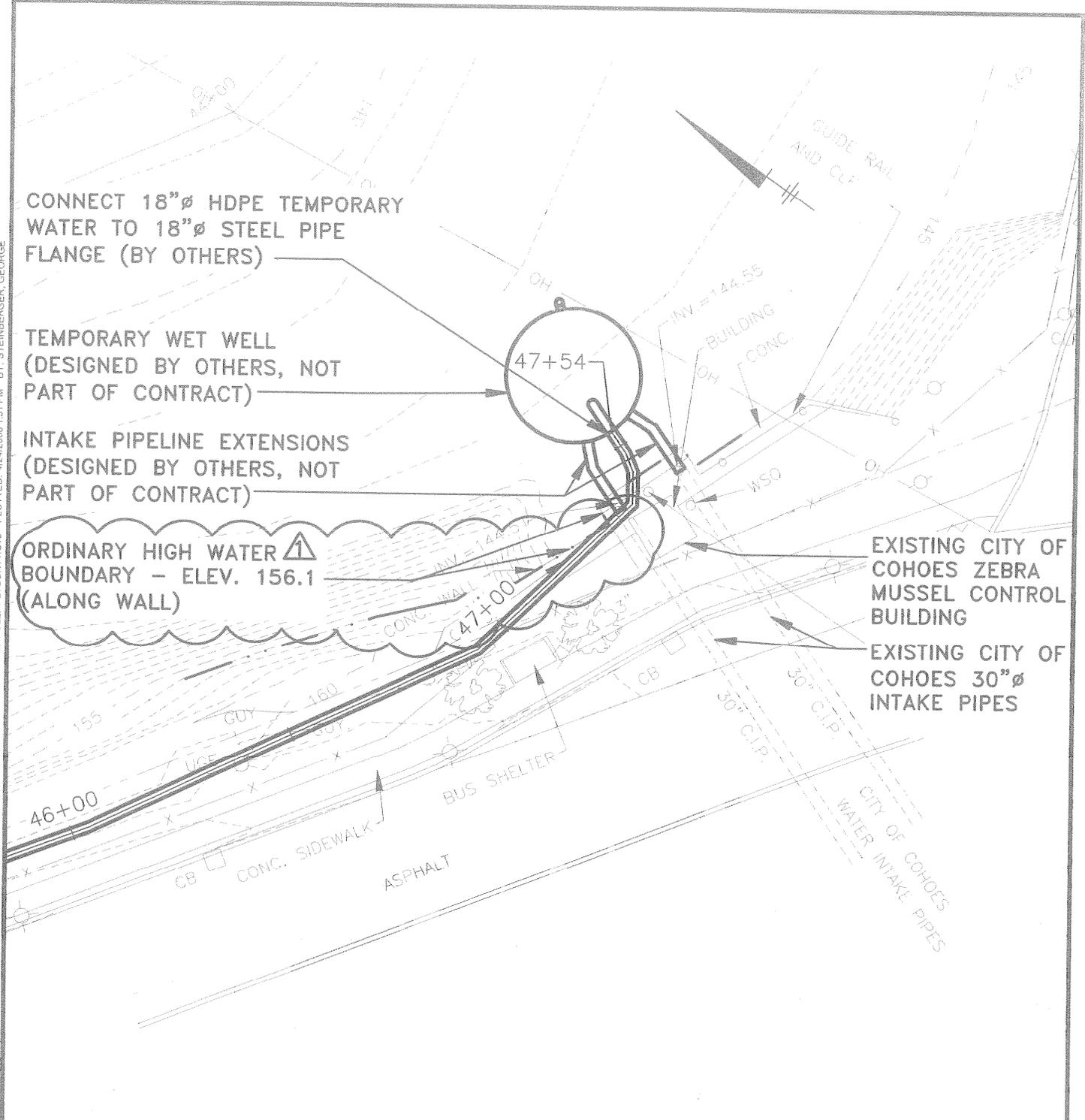
BROOKFIELD POWER, INC.
SCHOOL ST. HYDROELECTRIC STATION - COHIDES, NY
POWER CANAL SEDIMENT AND BEDROCK
DISPOSITION PLAN

POTENTIAL UPLAND SEDIMENT/BEDROCK
PLACEMENT (DISPOSITION AREA 3)

ARCADIS BBL

FIGURE
4

CITY:SYRNY DIV/GROUP:65 DB:GHS LD:GHS PIC: PM:JCP TM: LYR:CHYON-OFES-REF:
 G:\CAD\ACT\B00825020000001\G\W\SACOE\B2002601.DWG LAYOUT: 2 SAVED: 4/23/2008 2:06 PM ACADVER: 17.0S (LMS TECH) PAGES: 17 PLOTTABLE: PLTCONT1.CTE PLOTTED: 4/24/2008 1:51 PM BY: STEINBERGER, GEORGE
 XREFS: 82502X00
 IMAGES: PROJECTNAME: ---



BROOKFIELD POWER
 CITY OF COHOES, NEW YORK
SCHOOL STREET PROJECT
TEMPORARY RAW WATER INTAKE RELOCATION

PLAN - 2



FIGURE
2