



**October 16, 2015**

**PUBLIC NOTICE 09-02-15**

All interested parties are notified that an application has been received by Commander, Ninth Coast Guard District, from Hydraulic Race Company Inc., for approval of location and plans for the construction of two fixed, non-motorized Zip Line amusement rides over a navigable waterway of the United States.

**WATERWAY AND LOCATION:** Lockport Caves Zip Lines, Mile 320.44, Erie Canal, City of Lockport, Niagara County, New York.

**CHARACTER OF WORK:** Construction of two fixed, non-motorized Zip Line amusement rides over the Erie Canal. Each Zip Line will consist of dual steel cables suspended on an incline between wooden framed towers constructed along the banks of the Erie Canal. No part of the proposed project will be constructed or located in the Erie Canal.

**PROPOSED MINIMUM NAVIGATIONAL CLEARANCES:**

**Zip Line "A"**

Horizontal: Approximately 100-ft bank to bank with center 75-ft designated for the navigation channel.

Vertical: 64.93-ft at center. 62.86-ft at the eastern boundary of the navigation channel. 67.57-ft at the western boundary of the navigation channel. Referred to Maximum Navigation Pool, Elevation 514.87, New York Barge Canal Datum.

**Zip Line "B"**

Horizontal: Approximately 100-ft bank to bank with center 75-ft designated for the navigation channel.

Vertical: 34.33-ft at center. 31.90-ft at the western boundary of the navigation channel. 37.02-ft at the eastern boundary of the navigation channel. Referred to Maximum Navigation Pool, Elevation 514.87, New York Barge Canal Datum.

**ENVIRONMENTAL CONSIDERATIONS:**

United States Coast Guard (USCG), the lead federal agency for the proposed project, has reviewed and tentatively approved the project as a Categorical Exclusion for purposes of the National Environmental Policy Act (NEPA).

A protective fendering system will not be utilized. No part of the proposed Zip Line amusement ride will be constructed in the Erie Canal.

This notice solicits the need for navigation lighting for the proposed project.

The proposed replacement bridge is located within a mapped 100-year Federal Emergency Management Agency (FEMA) floodplain. As proposed, the project does not include any at or above-grade fill or other construction activities that would modify the 100-year floodplain. No excavation or placement of fill will take place in the Erie Canal. The applicant has applied to the U.S. Army Corps of Engineers (USACE) for Nationwide Permit (NWP) No. 11 – Temporary Recreational Structures. The applicant has also applied for a Steel Erection Permit over the New York State Barge Canal Permit from the New York State Canal Corporation (NYSCC).

As part of their USACE NWP No. 11 application, the applicant has applied for a Section 401 Water Quality Certification (WQC) from USACE for this project, pursuant to P.L. 92-500, as amended. New York State Department of Environmental Conservation (NYSDEC) has granted blanket Section 401 WQC in New York State provided the project complies with all Specific and General Conditions listed in an issued USACE NWP.

In conjunction with the USACE NWP application the applicant has also applied to the NYSDEC for a Protection of Waters Permit (6 NYCRR Part 608.5). NYSDEC replied on August 4, 2015, that a Protection of Waters Permit will not be required for the project.

The proposed project is not located within New York State's Coastal Zone Management (CZM) Plan.

No Federal or State-designated freshwater wetlands exist within the project's Area of Potential Affect (APE).

The entire Erie Canal is eligible for inclusion to the National Register of Historic Places (NRHP). Any structure built adjacent to or over the canal would then become a contributing component to the canal's eligibility. New York State Historical Preservation Office (SHPO) determined the proposed project would constitute No Adverse Impact to the Erie Canal on September 2, 2015.

No parklands are expected to be adversely affected by the proposed project.

The project will not result in any direct or indirect effects on any known Federally-listed threatened or endangered species or habitat per U.S. Fish and Wildlife Service (USFWS) letter dated September 22, 2015. A review of the NYSDEC endangered species database found no state-listed threatened or endangered species or habitat within the proposed project's APE.

The project is not expected to affect any known Essential Fish Habitats (EFH), as designated by National Marine Fisheries Service (NMFS). A review of NMFS' EFH Mapper revealed no habitat areas of particular concern or areas protected from fishing located in the proposed project's APE.

Per 40 CFR 93.126, the project as proposed is exempt from the transportation-related requirements of the 1990 Clean Air Act Amendments. In addition, the 2015 New York State Energy Plan lists the construction and operation of non-motorized methods of transportation as being exempt from air quality conformity analysis for transportation-related sources of air pollution.

NYSDEC Program Policy DEP-00-1(B)(2) exempts the project as proposed from undertaking a noise impact analysis. The APE is contained within an area in which local zoning provides for the intended usage as a recreational attraction.

Relocation of residences and businesses will not be required.

In reference to the provisions of Executive Order 12898, Environmental Justice, we are soliciting information concerning possible impacts of the proposed project on minority and low-income populations.

**SOLICITATION OF COMMENTS:**

This Public Notice requests comments from Federal, State and Local agencies to identify potential permit requirements or environmental impacts. This Public Notice also requests comments from waterway users and marine facilities regarding the proposed navigation clearances. Interested parties are requested to express their views, in writing, on the proposed bridge project giving sufficient detail to establish a clear understanding of their reasons for support of or opposition to the proposed work.

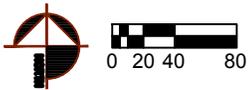
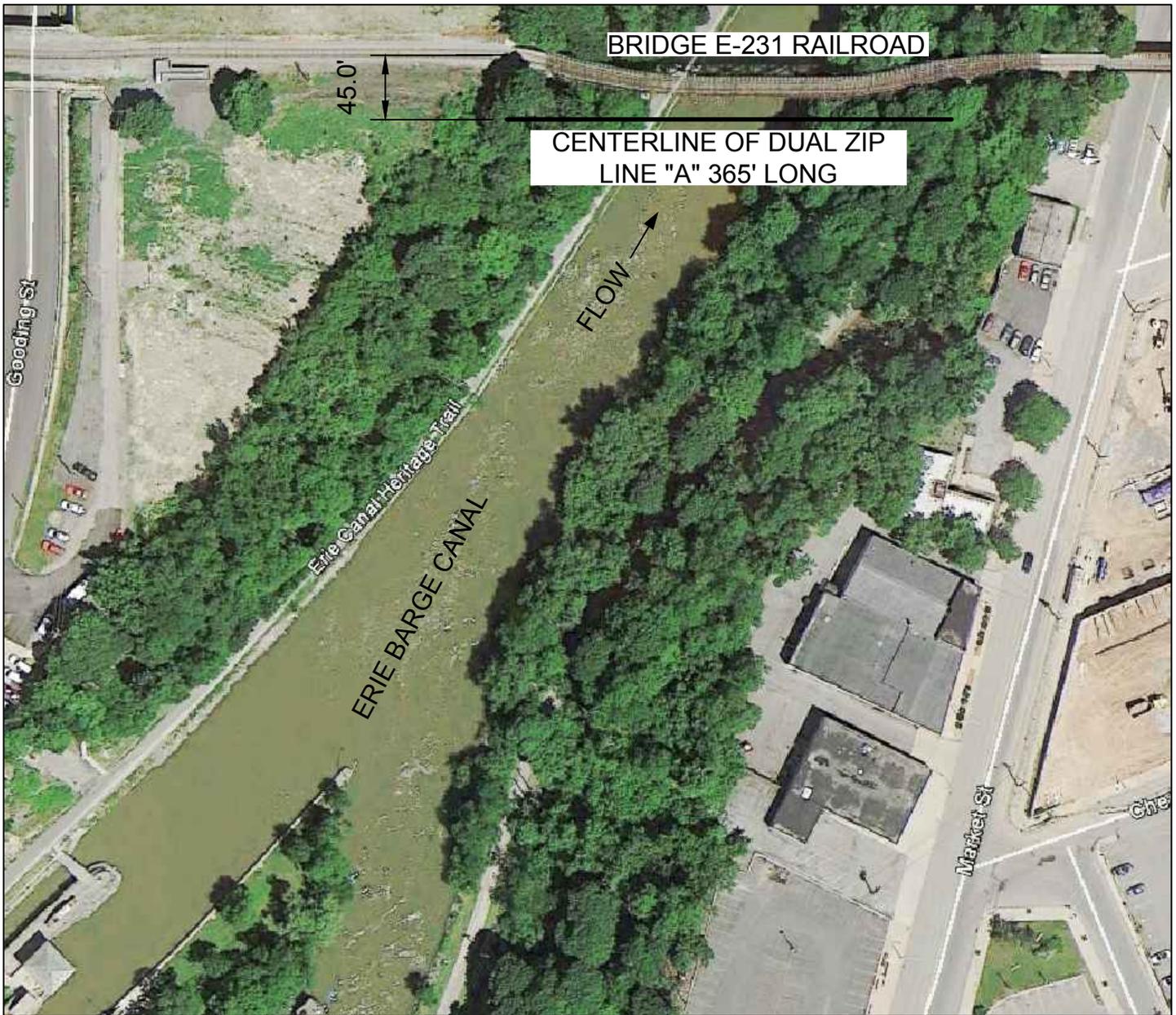
Comments will be received for the record at the Office of Commander (dpb), Ninth Coast Guard District, 1240 East Ninth Street, Cleveland, Ohio 44199, through **November 15, 2015**. These comments will be made part of the case record.

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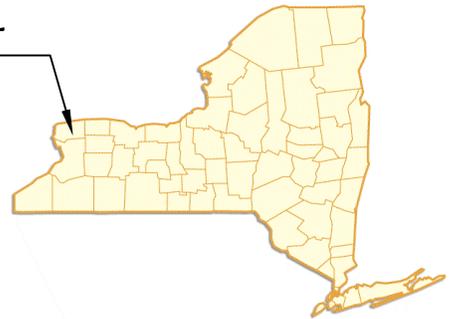
SCOT M. STRIFFLER  
Bridge Program Manager  
By direction of Commander,  
Ninth Coast Guard District

Map of location and plans attached.

**NOTICE TO POSTMASTER:** It is requested the above notice be conspicuously and continuously posted until **November 15, 2015**.



LOCATION OF PROJECT



NOTE:

- ELEVATIONS IN BARGE CANAL DATUM (BCD)
- MONITOR MARINE TRAFFIC AT ALL TIMES DURING OPERATION
- ZIP LINE MUST NOT HAVE A PATRON ON IT WITH A BOAT IN THE CANAL.

ENGINEER:  
**GGE**  
 ENGINEERING • DESIGN  
 GLYNN GEOTECHNICAL ENGINEERING  
 415 S. TRANSPORT STREET  
 LOCKPORT, NEW YORK 14094  
 VOICE (716) 625-6933 / FAX (716) 625-6983  
 WWW.GLYNNGROUP.COM

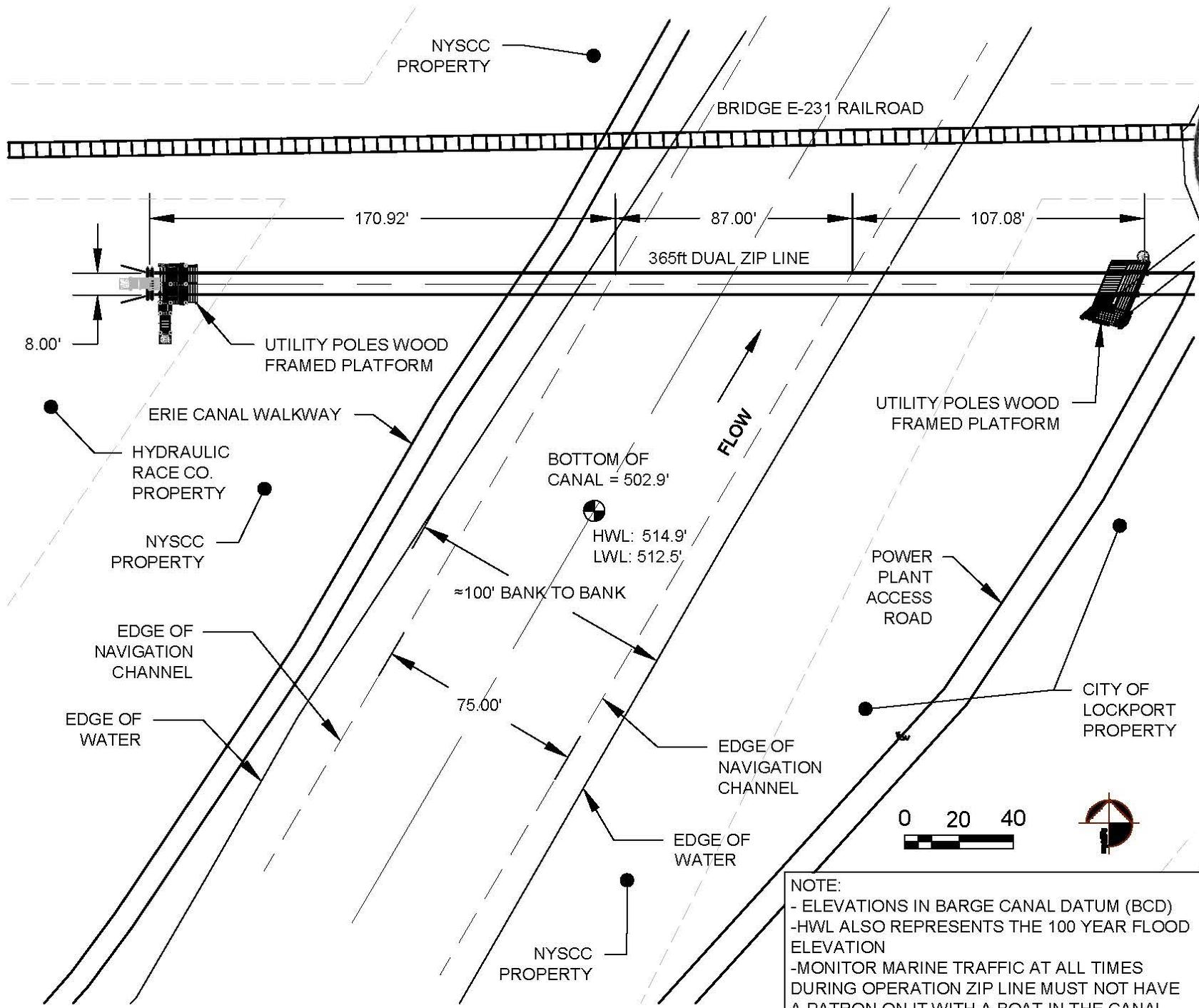
SHEET NO.:  
**1/3**

SHEET TITLE:  
 VICINITY MAP  
 PROJECT:  
 LOCKPORT CAVE ZIP LINE "A"  
 OWNER:  
 HYDRAULIC RACE CO. INC.

LOCATION:  
 LOCKPORT, NY  
 NIAGARA COUNTY

WATERWAY: ERIE BARGE CANAL	DATE: 9/15/2015	MILE POINT: 320.44
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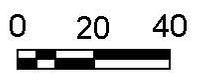


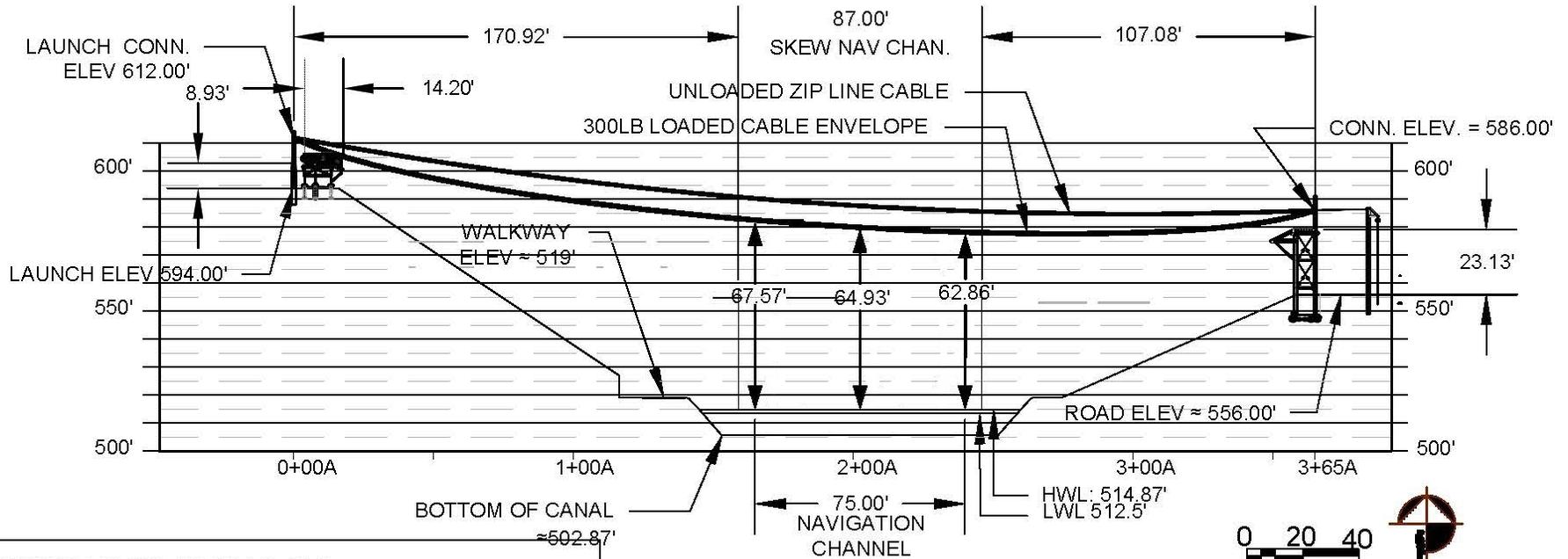


SHEET TITLE: PLAN VIEW		MILE POINT: 320.44	
PROJECT: LOCKPORT CAVE ZIP LINE "A"		DATE: 9/15/2015	
OWNER: HYDRAULIC RACE CO. INC.		WATERWAY: ERIE BARGE CANAL	

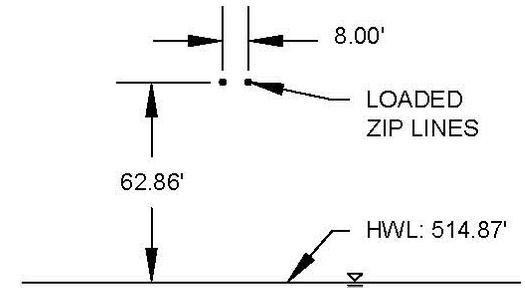
ENGINEER: <b>GOBE</b> GUNN GEBERTSON & ASSOCIATES LOCKPORT, NY 14094 www.gobegroup.com	SHEET NO.: <b>2/3</b>	LOCATION: LOCKPORT, NY NIAGARA COUNTY
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NOTE:  
 - ELEVATIONS IN BARGE CANAL DATUM (BCD)  
 - HWL ALSO REPRESENTS THE 100 YEAR FLOOD ELEVATION  
 - MONITOR MARINE TRAFFIC AT ALL TIMES DURING OPERATION ZIP LINE MUST NOT HAVE A PATRON ON IT WITH A BOAT IN THE CANAL.





**A** ZIP LINE "A" PROFILE  
SCALE: 1:60



**B** SECTION OVER CHANNEL EDGE  
SCALE: 1:60

LOCKPORT ZIP LINE "A" CABLE DATA	
CABLE: 1/2"Ø 6x26 SUPER SWAGE CABLE GALV.	
MIN. BREAKING STRENGTH:	34,700 lbs
MIN. LOADED CABLE SAFETY FACTOR:	SF = 5
CABLE WIEGHT:	0.605 lbsft
CABLE SPAN (HORIZONTAL LENGTH):	365 ft
VERTICAL DROP (CONN.-CONN.):	26 ft
CABLE LENGTH (¢ POLE TO ¢ POLE):	367 ft
INITIAL UNLOADED TENSION:	1100 lbs
MAX PARTICIPANT WEIGHT:	300 lbs
MIN PARTICIPANT WEIGHT:	90 lbs
MAX PARTICIPANT TENSION:	2,420 lbs
OPERATING SAFETY FACTOR:	SF = 14.34
ASSIST CASE TENSION (600 lbs LOAD):	3,925 lbs
ASSIST CASE SAFETY FACTOR:	SF = 8.9

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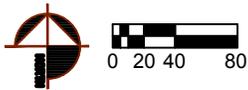
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SHEET NO.:  
**3/3**

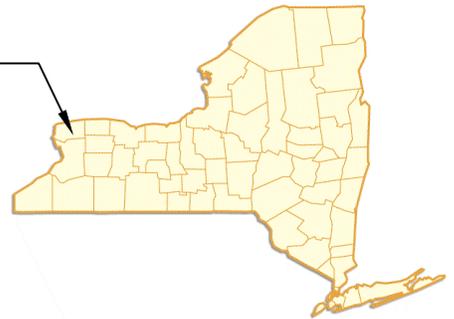
LOCATION:  
 LOCKPORT, NY  
 NIAGARA COUNTY

SHEET TITLE: ELEVATION AND SECTION VIEW		
PROJECT: LOCKPORT CAVE ZIP LINE "A"		
OWNER: HYDRAULIC RACE CO. INC.		
WATERWAY: ERIE BARGE CANAL	DATE: 9152015	MILE POINT: 320.44





LOCATION OF PROJECT



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SHEET NO.:  
**1/3**

SHEET TITLE:  
 VICINITY MAP

PROJECT:  
 LOCKPORT CAVE ZIP LINE "B"

OWNER:  
 HYDRAULIC RACE CO. INC.

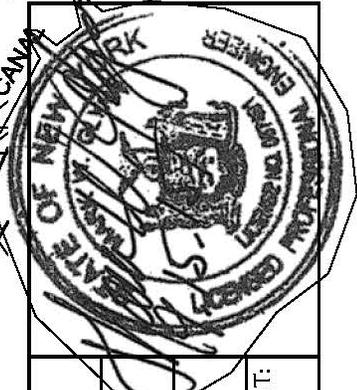
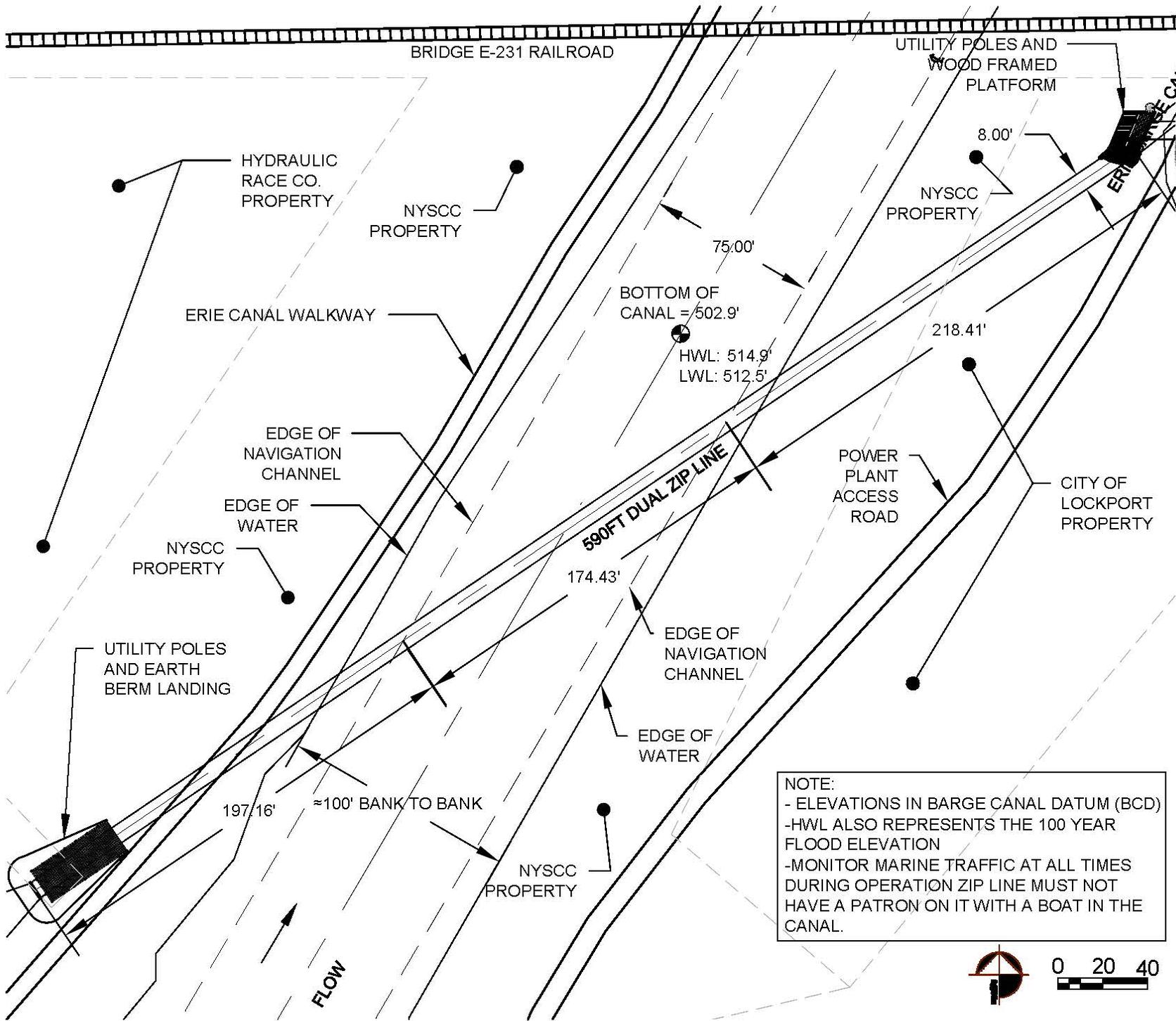
LOCATION:  
 LOCKPORT, NY  
 NIAGARA COUNTY

WATERWAY:  
 ERIE BARGE CANAL

DATE:  
 9/15/2015

MILE POINT:  
 320.48



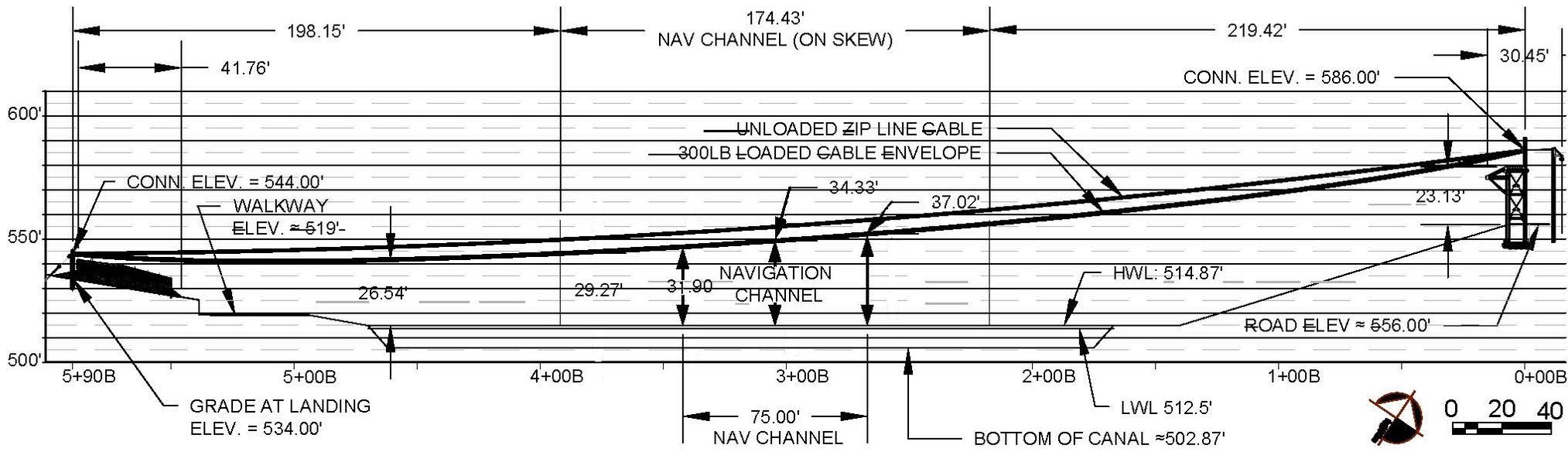


SHEET TITLE: PLAN VIEW		MILE POINT: 320.48	
PROJECT: LOCKPORT CAVE ZIP LINE "B"		DATE: 9/15/2015	
OWNER: HYDRAULIC RACE CO. INC.		WATERWAY: ERIE BARGE CANAL	

ENGINEER:  ROBERT J. GANNON LOCKPORT, NEW YORK 14094 VOICE: 716.438.1100 WWW.RJGANNON.COM	SHEET NO.: <b>2/3</b>	LOCATION: LOCKPORT, NY NIAGARA COUNTY
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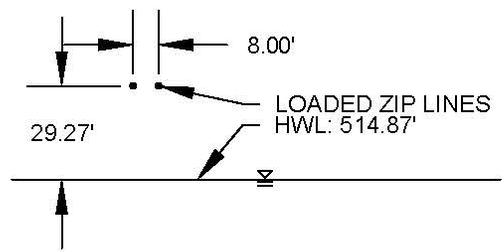


**LOCKPORT ZIP LINE "B" CABLE DATA**

CABLE: 1/2"Ø 6x26 SUPER SWAGE CABLE GALV.

MIN. BREAKING STRENGTH:	34,700 lbs
MIN. LOADED CABLE SAFETY FACTOR:	SF = 5
CABLE WIEGHT:	0.605 lbs/ft
CABLE SPAN (HORIZONTAL LENGTH):	590 ft
VERTICAL DROP (CONN.-CONN.):	42 ft
CABLE LENGTH (C POLE TO C POLE):	592 ft
INITIAL UNLOADED TENSION:	2,825 lbs
MAX PARTICIPANT WEIGHT:	300 lbs
MIN PARTICIPANT WEIGHT:	90 lbs
MAX PARTICIPANT TENSION:	4,760 lbs
OPERATING SAFETY FACTOR:	SF = 7.29
ASSIST CASE TENSION (600 lbs LOAD):	6,842 lbs
ASSIST CASE SAFETY FACTOR:	SF = 5.07

**A** ZIP LINE "B" PROFILE  
 33 SCALE: 1/60



**B** SECTION OVER CHANNEL EDGE  
 33 SCALE: 1/60

ENGINEER: SHEET NO.:

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SHEET TITLE:  
 ELEVATION AND SECTION VIEW

PROJECT:  
 LOCKPORT CAVE ZIP LINE "B"

OWNER:  
 HYDRAULIC RACE CO. INC.

WATERWAY: ERIE BARGE CANAL	DATE: 9152015	MILE POINT: 320.48
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