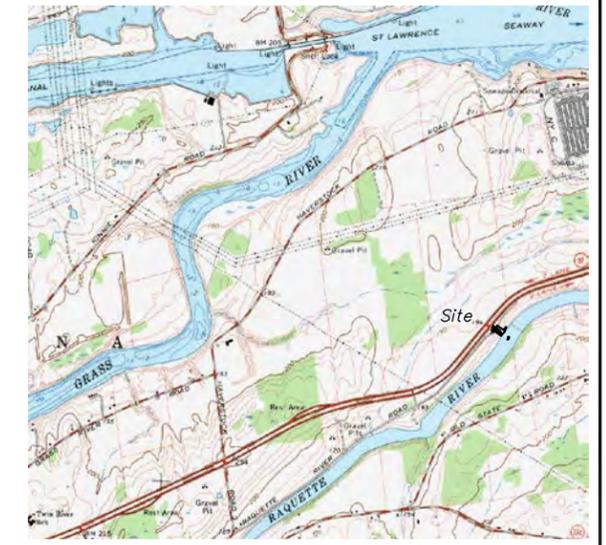
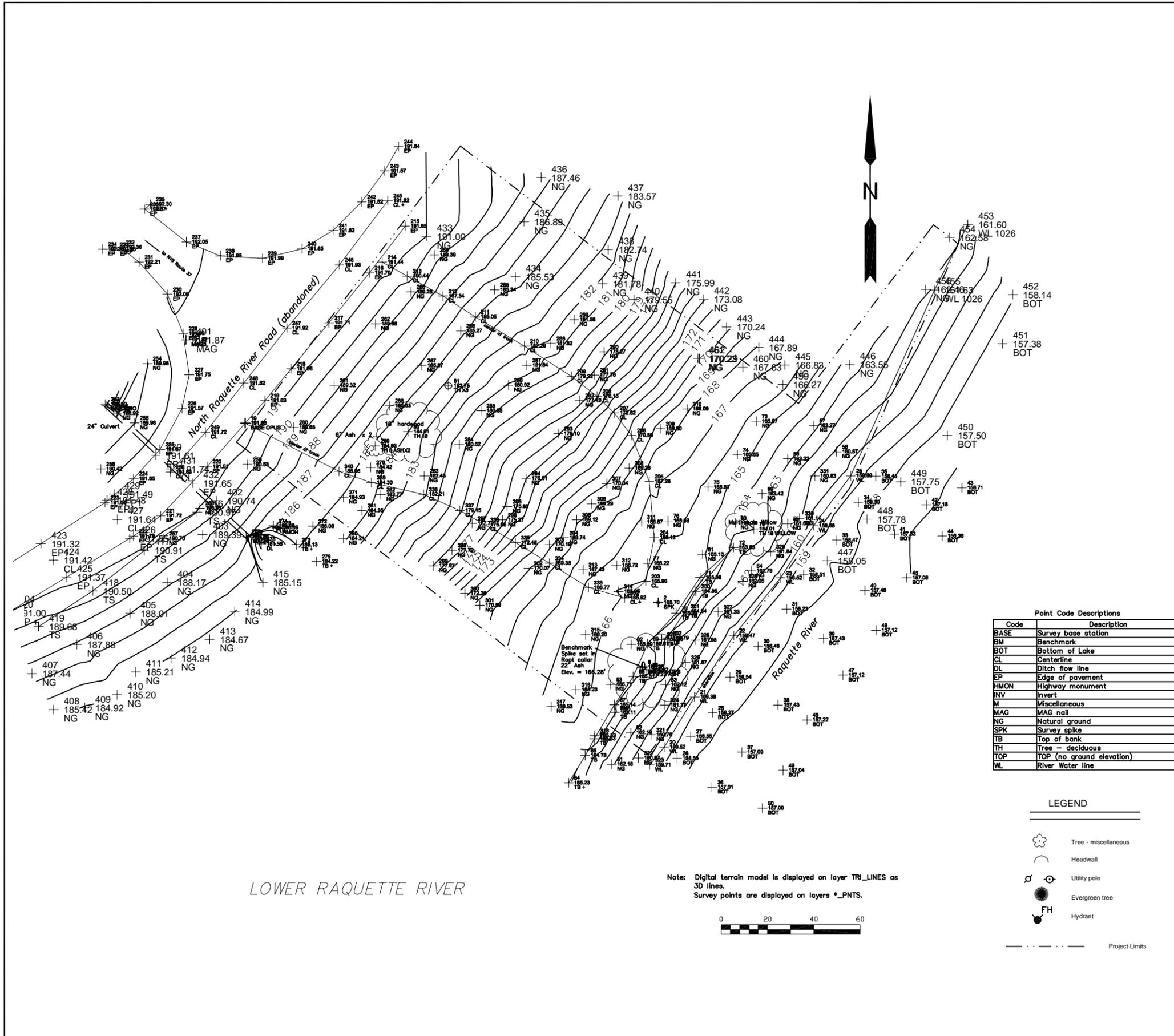


ATTACHMENT 2

Sites Topographic Surveys



- NOTES:
- 1) North arrow and coordinates are based on New York State Grid North, NAD 83 (96 CORS), East Zone, as determined by GPS observations.
 - 2) Elevations are based on NAVD 88 determined by static GPS observations as processed by U. S. National Geodetic Survey, GPUS program.
 - 3) This map is based on an actual field survey completed October 11, 2011 (easterly portion and river bottom), and an aerial photogrammetry completed in the month of March, 2005 (westerly land portion).

Point Code Descriptions	
Code	Description
BASE	Survey base station
BM	Benchmark
BOT	Bottom of Lake
CL	Centerline
DL	Ditch flow line
EP	Edge of pavement
HMON	Highway monument
INV	Invert
M	Miscellaneous
MAG	MAG nail
NG	Natural ground
SPK	Survey spike
TB	Top of bank
TH	Tree - deciduous
TOP	TOP (no ground elevation)
WL	River Water line

LEGEND	
	Tree - miscellaneous
	Headwall
	Utility pole
	Evergreen tree
	Hydrant
	Project Limits

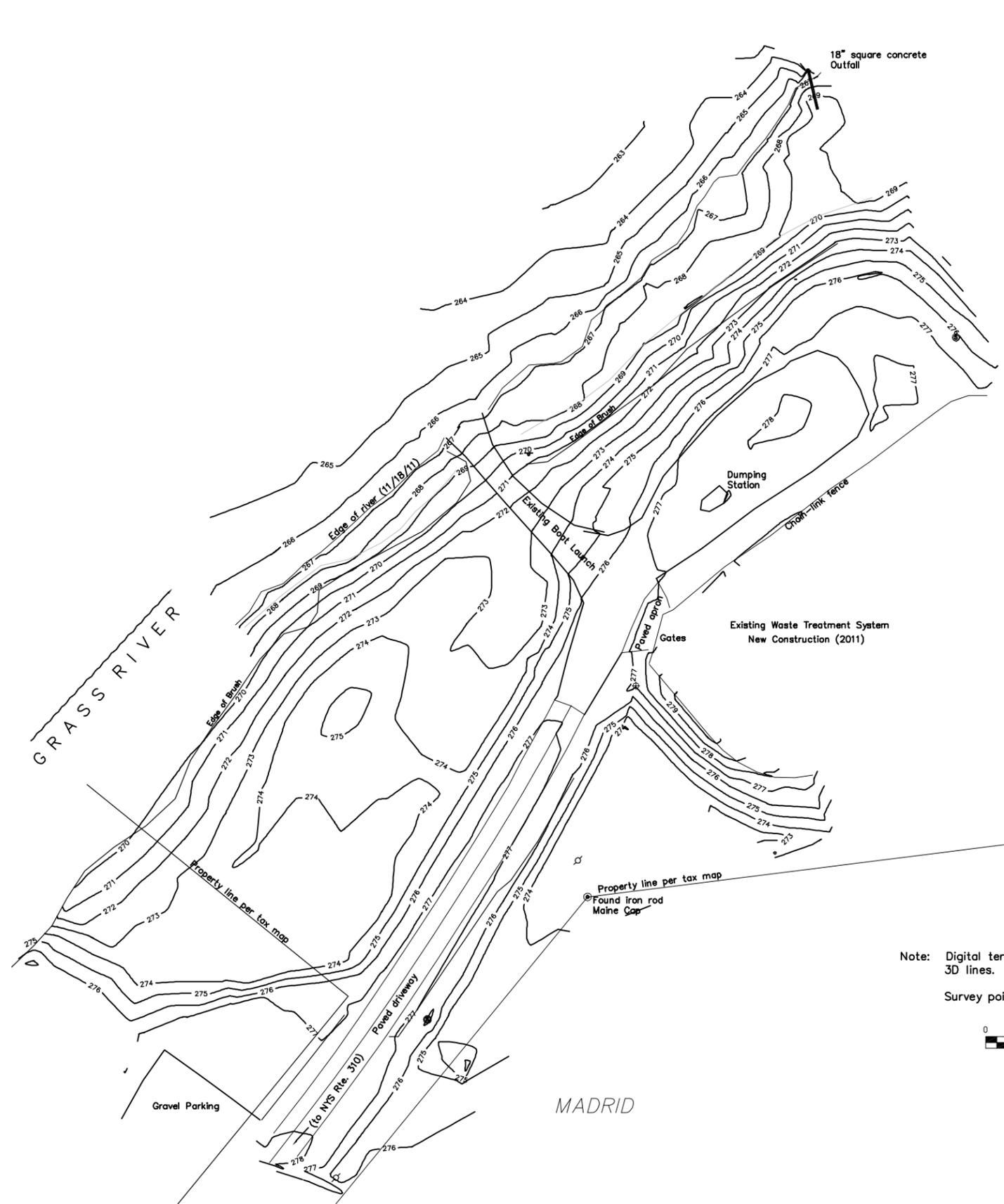
ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY
LOWER RAQUETTE RIVER

PREPARED BY
WCT Surveyors, P. C.
Whelan, Chatelle, and Tomic
971 Judson Street Road, Canton, New York 13617
Voice: 315/379-7630 Fax: 315/379-7631 Email: wcto@wct.com

MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH
NORTH OF RAQUETTE RIVER, RTE. 37

SITUATE IN:
TOWN OF MASSENA
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 10/11/2011 rev 11/27/11 SCALE: 1 inch = 20 feet
TAX MAP ID # 10.001-1-31.1 FILE # 111-159B
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Note: Digital terrain model is displayed on layer TRI_LINES as 3D lines.
Survey points are displayed on layers *PNTS.



- NOTES:
- 1) North arrow and coordinates are based on New York State Grid North, NAD 83 (95 CORS), East Zone, as determined by GPS observations.
 - 2) Elevations are based on NAVD 88 determined by static GPS observations as processed by U. S. National Geodetic Survey, OPUS program.
 - 3) This map is based on an actual field survey completed November 18, 2011.

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY

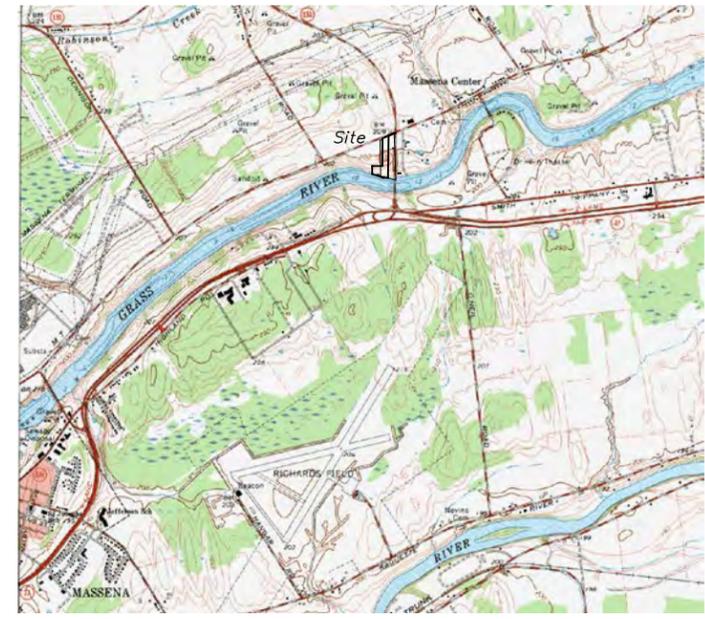
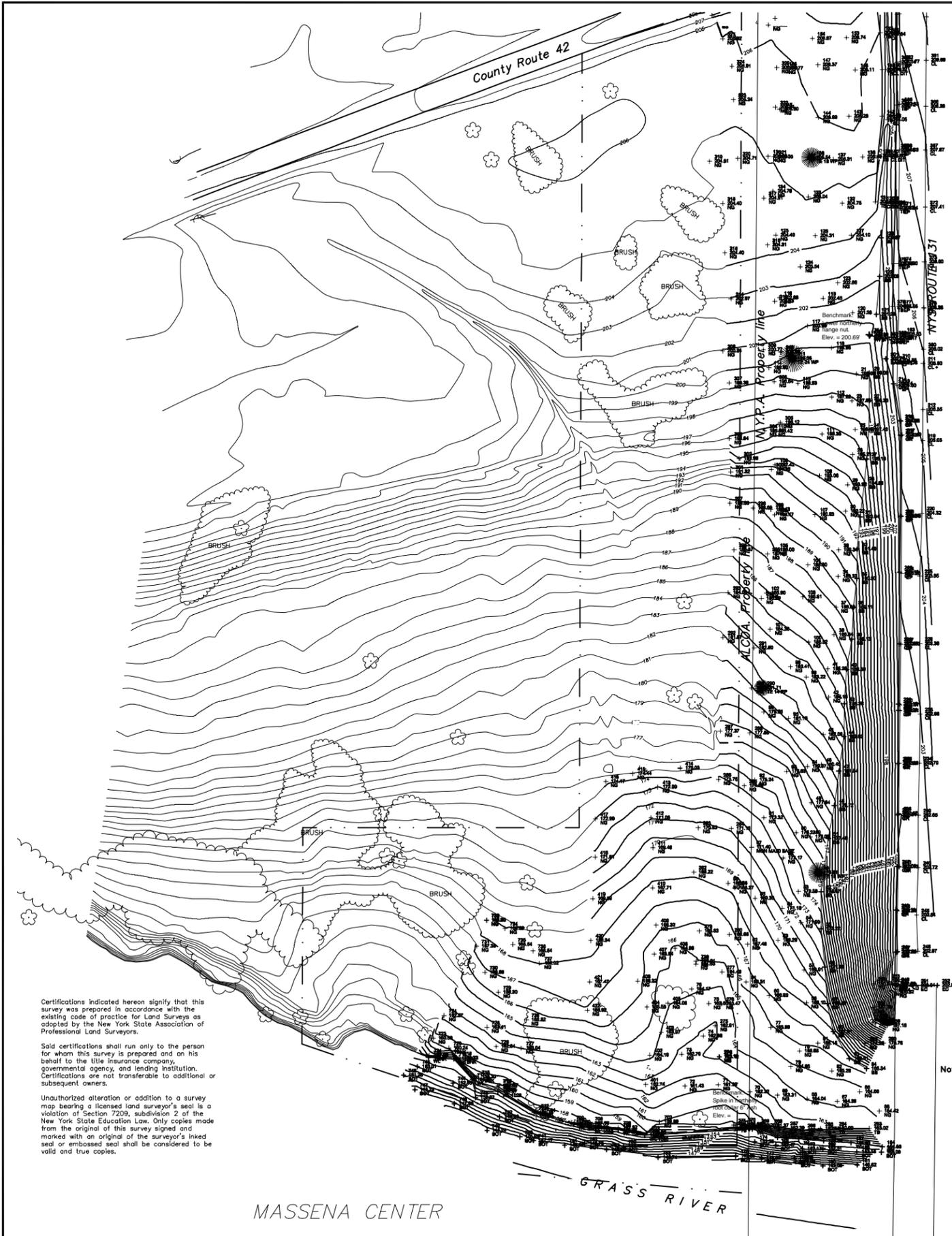
MADRID

PREPARED BY
WCT Surveyors, P. C.
Wilhelm, Chatelle, and Towne
971 Judson Street Road, Canton, New York 13617
Voice: 315/379-7630 Fax: 315/379-7631 Email: wct@ellic.com

MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH
TOWN OF MADRID WASTE TREATMENT SITE

SITUATE IN: TOWN OF MADRID
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 11/22/2011 SCALE: 1 inch = 30 feet
TAX MAP ID # 41.070-4-4.1 FILE # 111-159E
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SITE LOCATION MAP

RAQUETTE RIVER QUADRANGLE
SCALE: 1" = 2000'

Point Description Codes

Code	Description
BASE	Survey base station
BB	Bottom of bank
BOT	Bottom of Lake
BS	Bottom of slope
CL	Centerline
CLCL	INTERSECTION
CP	Check point
EC	Edge of concrete
EP	Edge of pavement
GR	Guide rail
GUY	Guy line anchor
HYD	Hydrant
INV	Invert
MON	Monument
NG	Natural ground
PP	Power pole
TB	Top of bank
TE	Tree - evergreen
WL	Water line

LEGEND

	Tree - miscellaneous
	Headwall
	Utility pole
	Evergreen tree
	Hydrant
	Project Limits

Note: Digital terrain model is displayed on layer TRI_LINES as 3D lines.
Survey points are displayed on layers *_PNTS.



- NOTES:**
- 1) North arrow and coordinates are based on New York State Grid North, NAD 83 (96 CORS), East Zone, as determined by GPS observations.
 - 2) Elevations are based on NAVD 88 determined by static GPS observations as processed by U. S. National Geodetic Survey, OPUS program.
 - 3) This map is based on an actual field survey completed October 11, 2011 (easterly portion and river bottom), and on aerial photography completed in the month of March, 2005 (westerly land portion).

Certifications indicated hereon signify that this survey was prepared in accordance with the existing code of practice for Land Surveys as adopted by the New York State Association of Professional Land Surveyors.

Said certifications shall run only to the person for whom this survey is prepared and on his behalf to the title insurance company, governmental agency, and lending institution. Certifications are not transferable to additional or subsequent owners.

Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of Section 7209, subdivision 2 of the New York State Education Law. Only copies made from the original of this survey signed and marked with an original of the surveyor's inked seal or embossed seal shall be considered to be valid and true copies.

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY

MASSENA CENTER

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Voice: 315/379-7830 Fax: 315/379-7831 Email: wctc@att.net

MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH
NORTH OF GRASS RIVER, RTE. 131

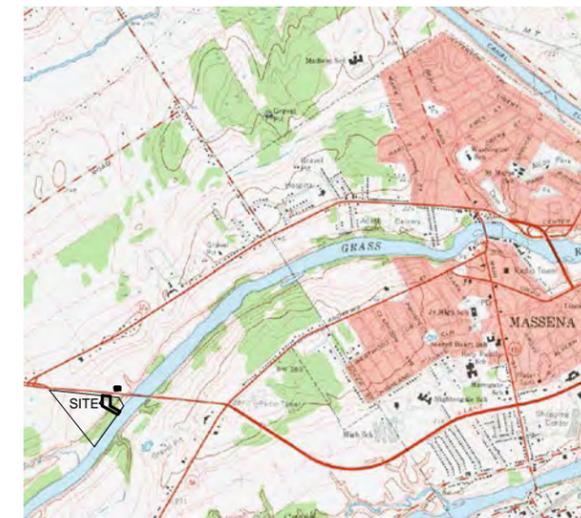
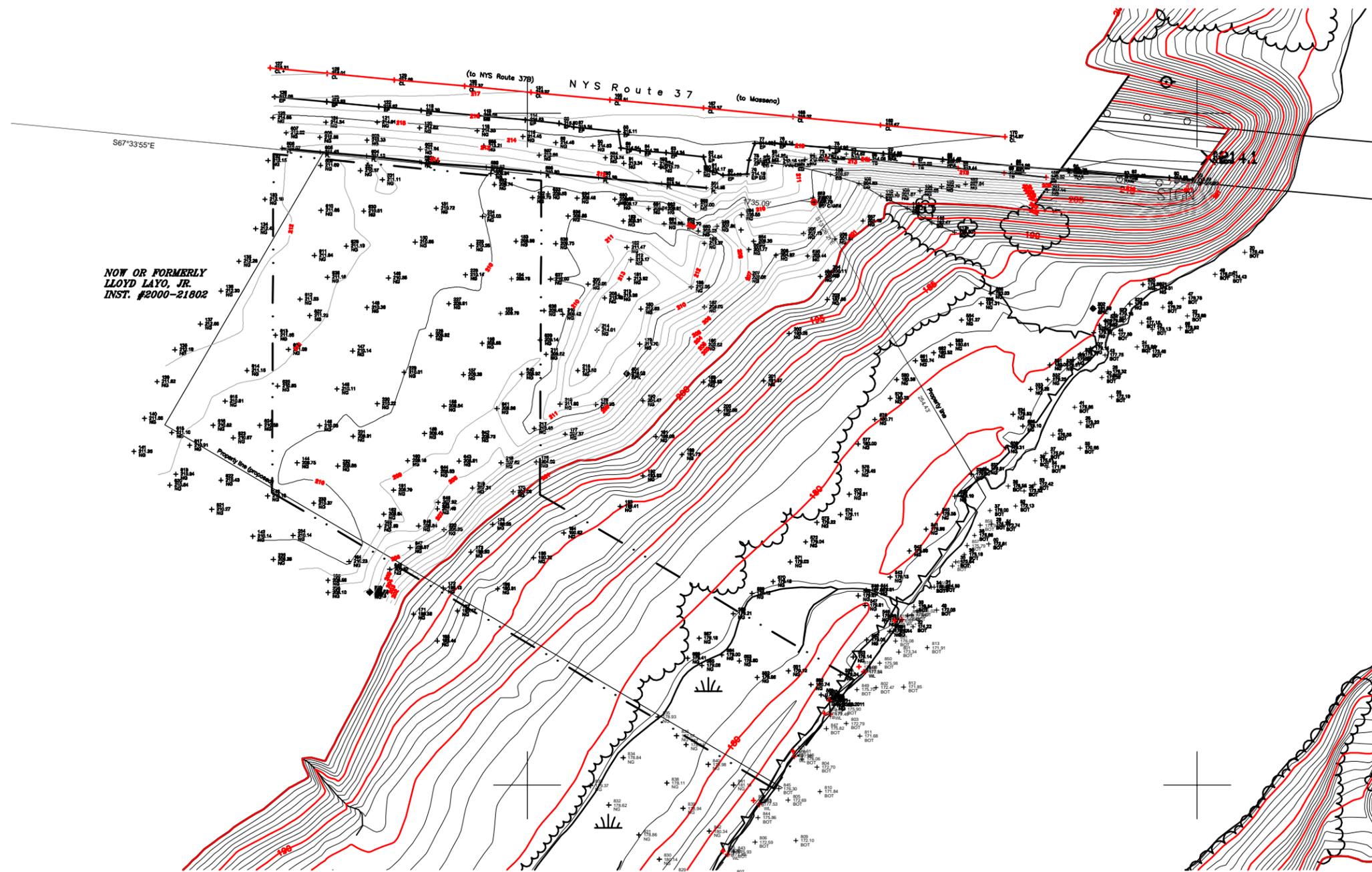
SITUATE IN:
TOWN OF MASSENA
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 10/11/2011 SCALE: 1 inch = 50 feet
TAX MAP ID # 10.001-1-31.1 FILE # 111-1588
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FIGURE
2-2

MASSENA CENTER

GRASS RIVER



SITE LOCATION MAP

MASSENA QUADRANGLE
SCALE: 1" = 2000'

ROUTE 37 BRIDGE

Code	Description
BASE	Survey base station
BOT	Bottom of Lake
CL	Centerline
EG	Edge of gravel
EP	Edge of pavement
FCR	Fence corner
FL	Fence line
IRF	Iron rod found
NG	Natural ground
SPK	Survey spike
STK	Stake
TB	Top of bank
WL	Water line

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- Hydrant
- Project Limits

Note: Digital terrain model is displayed on layer TRI_LINES as 3D lines.
Survey points are displayed on layers *_PNTS.



ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY

ROUTE 37 BRIDGE

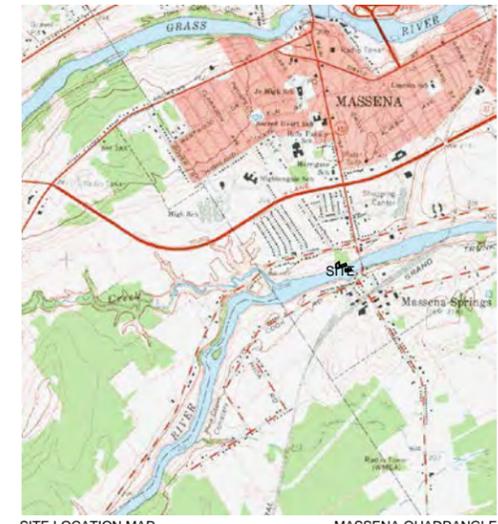
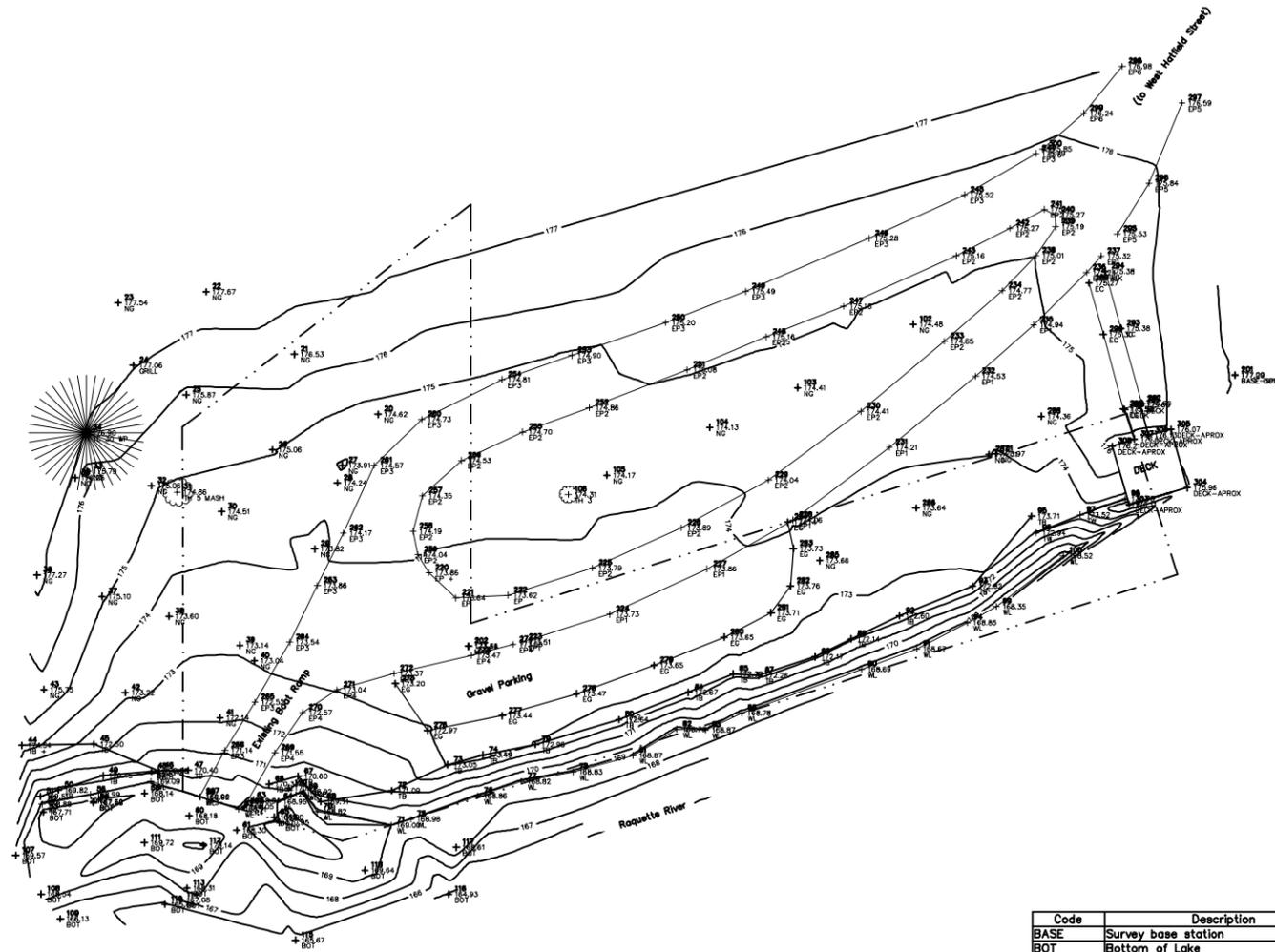
PREPARED BY
WCT Surveyors, P. C.
Wilhelm, Chatello, and Towne
971 Hudson Street Road, Canton, New York 13617
Voice: 315/379-7630 Fax: 315/379-7631 Email: wctsa@att.com
MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH SITE
LAYO PROPERTY, NYS RTE. 37

SITUATE IN: TOWN OF LOUISVILLE
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 10/26/2011 SCALE: 1 inch = 40 feet
TAX MAP ID # 9.003-3-83 FILE # 111-158Layo
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FIGURE
2-3



SITE LOCATION MAP
 MASSENA QUADRANGLE
 SCALE: 1" = 2000'

SPRINGS PARK

Code	Description
BASE	Survey base station
BOT	Bottom of Lake
DECK	Deck
EC	Edge of concrete
EG	Edge of gravel
EP	Edge of pavement
MAG	MAG nail
NG	Natural ground
TB	Top of bank
TE	Tree - evergreen
TH	Tree - deciduous
TW	Top of wall
WL	Water line

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- Hydrant
- Project Limits



ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 SITE TOPOGRAPHIC SURVEY

SPRINGS PARK

PREPARED BY
WCT Surveyors, P. C.
Wilhelm, Chatelle, and Towne
871 Hudson Street Road, Cortland, New York 13817
Voice: 315/379-7630 Fax: 315/379-7637 Email: wct@wct.com

MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY OF PROPOSED BOAT LAUNCH SITE
MASSENA SPRINGS PARK

SITUATE IN:
 VILLAGE & TOWN OF MASSENA
 COUNTY OF ST. LAWRENCE
 STATE OF NEW YORK

DATE: 10/26/2011 SCALE: 1 inch = 20 feet
TAX MAP ID # 9.083-5-17.1 FILE # 111-159Springs
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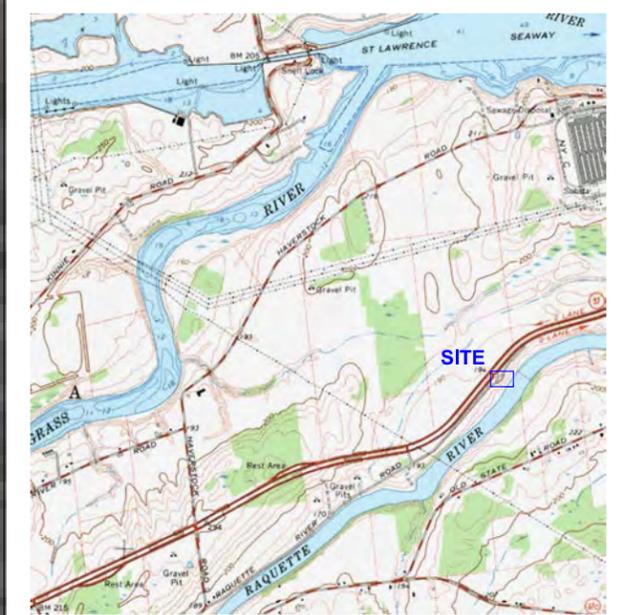


FIGURE
2-4

ATTACHMENT 3

Sites Wetland Investigation

CITY:\(Read) DIV\GROUP\Read DB\Read) LD:\(Opt) PIC:\(Opt) PM:\(Read) TM:\(Opt) LY:\(Opt) OFF=REF*
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 XREFS: 10877X01 10877X01.TIF
 IMAGES: 10877X01 10877X03.JPG
 PROJECTNAME: ---



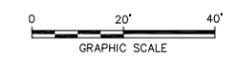
SITE LOCATION MAP RAQUETTE RIVER QUADRANGLE
 SCALE: 1" = 2000'

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- Hydrant
- Project Limits
- Indicates Wetland continues beyond Wetland Assessment Area

NOTES:

1. BASMAP PROVIDED BY WCT SURVEYORS, P.C.
2. NORTH ARROW AND COORDINATES ARE BASED ON NEW YORK STATE GRID NORTH, NAD 83 (96 CORS), EAST ZONE, AS DETERMINED BY GPS OBSERVATIONS.
3. ELEVATIONS ARE BASED ON NAVD 88 DETERMINED BY STATIC GPS OBSERVATIONS AS PROCESSED BY U. S. NATIONAL GEODETIC SURVEY, OPUS PROGRAM.
4. THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED NOVEMBER 18, 2011.



APPROXIMATE WETLAND 1 BOUNDARY

LOWER RAQUETTE RIVER

ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL ACCESS IMPROVEMENTS
WETLAND DELINEATION REPORT

LOWER RAQUETTE RIVER SITE



FIGURE
6

ATTACHMENT 4

Sites ADA Review

St. Lawrence County, New York

NRD Recreational River Access Improvements

Accessibility Review

Introduction

Alcoa, in cooperation with the New York State DEC, is proposing to complete site improvements to five parcels of property in St. Lawrence County, New York, to allow for enhanced recreational access to several local rivers. Each location is currently used for public river access and includes the following:

1. Lower Raquette River
2. Massena Center
3. Route 37 Bridge
4. Springs Park
5. Village of Madrid

Each of these locations currently have varying levels of river access, ranging from moderately developed to primitive. Each location will be improved to allow for river access for small boats, canoes and kayaks along with paved access from adjacent roadways and auto and boat trailer parking. Additionally, site improvements will be made to improve river edge recreational fishing at each location including boat launch ramps, floating boat docks and fishing/observation decks. Each of the sites will have a different combination of these improvements depending on the river use and anticipated popularity at each location. With the exception of Springs Park, neither facility will be developed for any other recreational uses and will not have any sanitary facilities or other structures. Springs Park has existing ADA accessible sanitary facilities along with other recreational items.

Prior to commencing with detailed engineering for each site, an accessibility review will be completed for recreational boating and fishing facilities in general and specifically for each site. This review will be completed utilizing Accessibility Guidelines as developed for the Americans with Disabilities Act.

Accessibilty Standards

The Americans with Disabilities Act (ADA) is a comprehensive civil rights law that prohibits discrimination throughout the United States on the basis of disability. The standards that apply to the accessibility to all buildings and other public and private facilities is the ADA Accessibility Guidelines (ADAAG). These guidelines require that newly constructed and altered facilities, places of public accommodation and commercial facilities be readily accessible to and usable by individuals with disabilities. Recreation facilities including boating and fishing structures are required to comply with these guidelines.

General Facilities Accessibility Standards are provided in ADAAG Section 4, Accessible Elements and Spaces. These standards deal primarily with general site and building accessibility issues that apply to most new and altered facilities and buildings. Key site items include: accessible routes, walking surfaces, ramps, parking spaces and handrails.

In 2002, a supplemental document was issued to the main ADAAG standards that deal specifically with recreational facilities. This new supplement has been added to the ADAAG standards as Section 15, Accessible Standards for Recreational Facilities. These guidelines are further broken out into standards for recreational boating facilities as well as fishing piers and platforms (15.2 and 15.3). Included are accessibility guidelines for boat piers, boat launch ramps as well as fishing piers and fishing decks. In these guidelines, emphasis is placed on ensuring that individuals with disabilities are generally able to access and fully utilize these recreational opportunities.

A full review of these accessibility standards will be completed for the new recreational facilities proposed for the Grass and Raquette Rivers in St. Lawrence County New York.

4.3 Accessible Route

4.3.3 Width

The minimum clear width of an accessible route shall be 36 inches.

4.3.4 Passing Space

If an accessible route has less than 60 inches clear width, then passing spaces at least 60 inches by 60 inches shall be located at reasonable intervals not to exceed 200 feet.

4.3.7 Slope

An accessible route with a running slope greater than 1:20 is a ramp and shall comply with section 4.8, Ramps. Nowhere shall the cross slope of an accessible route exceed 1:50.

4.5 Ground and Floor Surfaces

4.5.1 General

Ground and floor surfaces along accessible routes shall be stable, firm and slip resistant.

Addendum 4.5

Wheel chairs can be propelled most easily on surfaces that are hard, stable and regular. Soft, loose surfaces such as sand or gravel, wet clay and irregular surfaces such as cobblestone can significantly impede wheelchair movement.

4.6 Parking and Passenger Loading Zones

4.6.2 Location

Accessible parking spaces shall be located on the shortest accessible route of travel from adjacent parking to accessible entrance to the exterior facility.

4.6.3 Parking Spaces

Accessible parking spaces shall be at least 96 inches wide. Parking access aisles shall not be part of an accessible route to the facility entrance. Parking spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

4.6.4 Signage

Accessible parking Spaces shall be designated as reserved by a sign showing the symbol of accessibility. Such signs shall be located so they cannot be observed by a vehicle parked in the space.

4.6.6 Passenger Loading Zones

Passenger loading zones shall provide an access aisle at least 60 inches wide and 20 feet long adjacent and parallel to the vehicle pull up space. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

4.8 Ramps

4.8.1 General

Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp.

4.8.2 Slopes and Rise

The least possible slope shall be used for any ramp. The maximum slope of a ramp in new construction shall be 1:12. The maximum rise for any run shall be 30 inches.

4.8.4 Landings

Ramps shall have level landings at the top and bottom of each ramp.

- (1) The landing shall be at least as wide as ramp run leading to it.*
- (2) The landing length shall be a minimum of 60 inches clear.*
- (3) The minimum landing size shall be 60 inches x 60 inches if the ramp changes direction.*

4.8.5 Handrails

If a ramp run has a rise greater than 6 inches or a horizontal projection greater than 72 inches, then it shall have handrails on both sides.

4.8.6 Cross Slopes and Surfaces

The cross slope of ramp surfaces shall be no greater than 1:50. Ramp surfaces shall comply with Section 4.5.

ADAAG Section 15 – Accessibility Standards for Recreational Facilities

ADAAG Section 15 applies to accessibility requirements for design and construction of recreational facilities and elements. Section 15.2 applies to Recreation Boating Facilities and Section 15.3 applies to Fishing Piers and Platforms.

15.2 Boating Facilities

15.2.2 Accessible Routes

An accessible route must connect accessible boat slips with other accessible elements on the same site. Several exceptions modify the accessible route requirements as they relate to connecting to floating piers. No exceptions are provided for accessing permanent piers.

Exception 3 - permits gangways to exceed the maximum slope specified in ADAAG 4.8.2 where the length of the gangway, serving as a part of the accessible route, is at least 80 feet.

Exception 4 - For boating facilities with less than 25 boat slips, gangways may exceed the maximum slope specified in ADAAG 4.8.2 where the total length of the gangway serving as part of a required accessible route is at least 30 feet.

Exception 5 - Permits transition plates to be located at the ends of gangways instead of the landings specified in ADAAG 4.8.4.

15.2.3 Boat Slips: Minimum Number

The number of accessible boats slips required is a minimum of one for 1 to 25 total slips.

15.2.4 Boarding Piers at Boat Launch Ramps

15.2.4.1 Boarding Pier Clearances

Boat slips associated with boat ramps are considered boarding piers.

ADAAG ramp requirements do not apply to the portion of the accessible route serving a floating boarding pier or skid pier if located within a boat launch ramp.

- *There are no specific provisions that address access to launch ramps without boarding piers. It is recommended that an accessible route*

service at least one launch ramp. The portion of the accessible route located within the launch ramp is not required to comply with the slope requirements for accessible routes.

15.2.5 Accessible Boat Slips

15.2.5.1 Clearances

Accessible boat slips must have a clear pier space at least 60 inches wide and as long as the slip. Every 10 linear feet of pier edge serving the accessible slip must have at least one continuous opening at least 60 inches wide.

Edge protection is not required, but if provided, it can be 4 inches high maximum and 2 inches deep maximum the continuous clear opening.

15.2.5.2 Cleats and Other Boat Securing Devices

Cleats and other boat securement devices at accessible slips do not have to comply with ADAAG reach range requirements. However, clear space must be provided at each securement device and each device must be located on an accessible route.

15.3 Fishing Piers and Platforms

15.3.2 Accessible Route

Accessible routes, including gangways that are part of the accessible route, must comply with ADAAG 4.3. The accessible route must comply with all provisions for location, width passing space etc.

Exceptions as listed in Section 15.2.2 apply as well for Fishing Piers and Platforms.

Gangways must be designed to provide for a maximum 1:12 (8.33%) slope, but, are not required to be longer than 30 feet in length. There are no maximum length requirements for gangways.

Gangways are not required to have landings at the end if transition plates are provided, unless the slope of the transition plate is greater than 1:20 (5%).

15.3.3 Railings

15.3.3.1 Edge Protection

Edge protection is required to extend a minimum of 2 inches above the deck surface.

Exception: Where railing or handrail is 34 inches or less above the deck surface, edge protection is not required if the deck surface extends 12 inches minimum beyond the inside face of the railing.

15.3.3.2 Height

Where railings, guards or handrails are provided on a fishing platform, at least 25% of the rails must be 34 inches or less in height above the deck. Other railing higher than 34 inches must conform to all requirements of the International Building Code (IBO).

IBO 2000

1003.2.12.1 Height

Guards shall form a protective barrier not less than 42" high measured vertically above the leading edge of the walking surface.

1003.2.12.2 Opening Limitations

Open guards shall have balusters such that a 4 inch diameter sphere cannot pass through any opening up to the height of 34 inches.

15.3.3 Dispersion

Portions of the railings that are at the lower height shall be located in a variety of locations on the fishing platform to provide a variety of fishing opportunities.

15.3.4 Clear Floor or Ground Space

At least one clear floor or ground space must comply with ADAAG 4.2.4 (30 inches x 48 inches minimum) at each location that has a railing height of 34 inches.

15.3.5 *Maneuvering Space*

At least one maneuvering space complying with ADAAG 4.2.3 must be provided on a fishing platform. The maneuvering space is permitted to overlap the accessible route and the clear floor space required in Section 15.3.4.

Site Accessibility Review

Lower Raquette River

Site Description

The Lower Raquette River site is located immediately adjacent to Route 37 approximately 5 miles east of the Town of Massena. The site limits begin at a lightly used access road to the adjacent 4 lane Route 37 Highway. From the Access Road, a small flat area leads to a moderate slope down to a flat area adjacent to the river. The site is moderately tree'd with the area adjacent to the river being clear of trees. The site is currently being utilized as a primitive river access to the lower Raquette River by local canoe and kayak enthusiasts.

Site Improvements

The proposed site improvements will enhance the current river access by adding hard surface parking and access drives as well as improved river edge facilities for launching canoes/kayaks as well as fishing. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing. The primary site improvements include:

1. Paved auto and boat trailer parking.
2. Paved access to the river edge.
3. Paved boat/passenger load/unload area.
4. Hard surface boat launch ramp.
5. Wooden river edge Fishing Deck.
6. Accessible access to all river edge facilities.

The site will remain as a river access point for canoes and kayaks and other small non-motorized boats.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.
- 4.5 Accessible route ground surface materials.
- 4.6 Parking and passenger load zone sizes and surface slopes.

- 15.2 Boat launch ramp requirements.
- 15.3 Fishing platform and accessible route requirements

Site Review

The Lower Raquette River site poses several challenges for providing easy accessibility for disabled individuals. The primary auto parking will be located at the top of the hill with vehicle drives and a pedestrian walk connecting down the slope to the river edge facilities. This slope is far in excess of the maximum accessible slope requirements and it would be impractical to provide an accessible path down the slope. The proposed site plan instead provides for one dedicated, hard surface accessible parking space at the bottom of the slope along with a boat/passenger drop off zone adjacent to the river edge facilities. These improvements will provide easy access to the river access for disabled canoe/kayak users.

A fishing platform is proposed for this location 50 feet downstream from the river access area. At this stage of the project design, the fishing platform is only located. This platform must be sized to handle wheelchair turning and clear floor space, per ADAAG 4.2, and shall include areas with maximum 34 inch railing height.

An accessible route will be provided to both the river access ramp and the fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the fishing platform.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Massena Center

Site Description

The Massena Center site is located adjacent to the Route 131 bridge crossing the Grasse River approximately 2 miles east of the Town of Massena. The site access will be from Massena Center Road approximately 800 feet north of the Grasse River. The site slopes moderately and consistently from Massena Center Road to the proposed site improvements near the river. The site is lightly tree'd with the area adjacent to the river being lightly vegetated. The site is currently an undeveloped parcel with no existing river access use. The site was identified as a prime location for river recreation opportunities in the immediate Massena area.

Site Improvements

The proposed site improvements will provide a hard access drive and surface parking as well as new river edge facilities for launching canoes/kayaks and small boats. Additionally, a new fishing platform will be constructed to provide river edge fishing opportunities along the river. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing activities. The primary site improvements include:

1. Paved access road from Massena Center Road.
2. Paved auto and trailer parking.
3. Paved boat/passenger load/unload area.
4. Hard surface boat launch ramp.
5. Floating river access dock adjacent to the launch ramp.
6. Wooden river edge Fishing Deck.
7. Accessible access to all river edge facilities.

The site will provide a new river access point on the Grasse river for canoes and kayaks and other small non-motorized as well as motorized boats.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.
- 4.5 Accessible route ground surface materials.

- 4.6 Parking and passenger load zone sizes and surface slopes.
- 15.2 Boat boarding pier and launch ramp requirements.
- 15.3 Fishing platform and accessible route requirements

Site Review

The Massena Center site can provide a highly usable river access facility that can include easy accessibility for disabled individuals to all of the recreational river activities available. The primary site auto parking will be located near the river edge access facilities, upslope of the seasonal high water elevation. This will allow accessible parking to be adjacent to the river access facilities. The proposed site plan includes accessible parking spaces and a boat/passenger load zone in the primary parking lot with easy access to the fishing platform and the boat launch ramp and pier.

A fishing platform is proposed for this location 100 feet upstream from the river access area. At this stage of the project design, the fishing platform is only located. This platform must be sized to handle wheelchair turning and clear floor space, per ADAAG 4.2, and shall include areas with maximum 34 inch railing height.

An accessible route will be provided to both the river access ramp and the fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the fishing platform.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Route 37 Bridge

Site Description

The Route 37 Bridge site is located adjacent to the Route 37 bridge crossing the Grasse River approximately 2 miles west of the Town of Massena. The site access will be from Route 37 approximately 600 feet west of the Grasse River. The site slopes slightly from the west as it approaches the river. Approximately 200 feet from the river, the site slope increases significantly down to a flat, seasonably flooded area adjacent to the river. The site is lightly vegetated on the upland portion of the site. The steep slope area has a heavy tree cover and the area adjacent to the river is vegetated with typical wet zone vegetation. The site is currently utilized by local residents for small boat and canoe/kayak access to the river. Current river access facilities are primitive and un-maintained. Minimal parking is available adjacent to Route 37.

Site Improvements

The proposed site improvements will provide a hard access drive and surface parking as well as new river edge facilities for launching canoes/kayaks and small boats. Additionally, the existing river access area will be minimally improved to provide for shoreline fishing opportunities on the river. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing activities. The primary site improvements include:

1. Paved access road from route 37.
2. Paved auto and trailer parking.
3. Paved boat/passenger load/unload area.
4. Hard surface boat launch ramp.
5. Grassy shoreline fishing area.
6. Accessible access to all river edge facilities.

The site development will provide an excavated channel through the wetland area for canoe and kayak access to the Grasse River.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.

- 4.5 Accessible route ground surface materials.
 - 4.6 Parking and passenger load zone sizes and surface slopes.
- 15.2 Boat launch ramp requirements.

Site Review

The Route 37 Bridge site poses several challenges for providing accessibility for disabled boating and fishing participants. The primary site auto and trailer parking will be located at the upland portion of the site in the lightly vegetated portion of the site. A two way access drive and a pedestrian walkway will connect the parking with the downslope river access facilities. The slope down to the river is far in excess of the maximum accessible slope requirements for ADA access and it would be impractical to provide an accessible ramp down to the river. Instead, the proposed plan includes a dedicated hard surface accessible parking space located adjacent to the river access facilities. This site layout will allow for access to both the boat ramp and surface fishing area for disabled outdoor enthusiasts.

A fishing platform will not be provided at this location. Instead, the existing river access area will be minimally improved and utilized as a shoreline fishing area during normal and low water periods.

An accessible route will be provided to both the river access ramp and the shoreline fishing area on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the fishing platform.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Springs Park

Site Description

The Springs Park site is located on Hatfield Street in the Town of Massena . The site is currently a heavily used city park and has an active river boat launch for small boats. Site access and parking is currently shared with the other park facilities. The site is substantially a flat, grassy site with a slope down to the river.

Site Improvements

The proposed site improvements will enhance the current river access by replacing the existing boat launch ramp, adding hard surface parking for trailers and adding a new boat launch pier. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing. The primary site improvements include:

1. Paved boat trailer parking.
2. Hard surface boat launch ramp.
3. Floating Boat pier for use by boats as well as canoes and kayaks.
4. Accessible access to all river edge facilities.

The site currently has a river edge fishing deck which will be connected to the new boat ramp and pier by an accessible walkway.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
 - 4.3 Accessible route width.
 - 4.5 Accessible route ground surface materials.
 - 4.6 Parking sizes and surface slopes.
-
- 15.2 Boat launch ramp and pier requirements.

Site Review

The Springs Park site is currently utilized for recreational river access and has a good river access boat launch ramp. The project scope is intended to upgrade the existing facilities and provide for accessibility for disabled individuals to all of the river edge facilities. The primary auto parking is located adjacent to the river. One ADA accessible parking space will be provided in the current parking area and will be paved with a hard surface.

A boat boarding pier will be provided for small boats, canoes and kayaks. The pier will be fully accessible to disable boaters.

An accessibility route will be provided to both the river access ramp/boarding pier and the existing fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes. Access to the boarding pier shall meet the minimum standards for this site element.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Town of Madrid

Site Description

The Town of Madrid site is located off River Road and Rout 345 adjacent to the Upper Grasse River. The site is currently utilized as a river access facility primarily for small boats and includes an asphalt boat ramp. Site access and parking is currently shared with the local water treatment plant. The site is substantially a flat, grassy site with a slope down to the river.

Site Improvements

The proposed site improvements will enhance the current river access by adding hard surface parking as well as improved river edge facilities for launching small boats, canoes/kayaks as well as fishing. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing. The primary site improvements include:

1. Paved auto and boat trailer parking.
2. Paved boat/passenger load/unload area.
3. Hard surface boat launch ramp.
4. Wooden river edge Fishing Deck.
5. Accessible access to all river edge facilities.

The site will remain as a river access point for canoes and kayaks and other small motorized and non-motorized boats.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.
- 4.5 Accessible route ground surface materials.
- 4.6 Parking and passenger load zone sizes and surface slopes.

- 15.2 Boat launch ramp requirements.
- 15.3 Fishing platform and accessible route requirements.

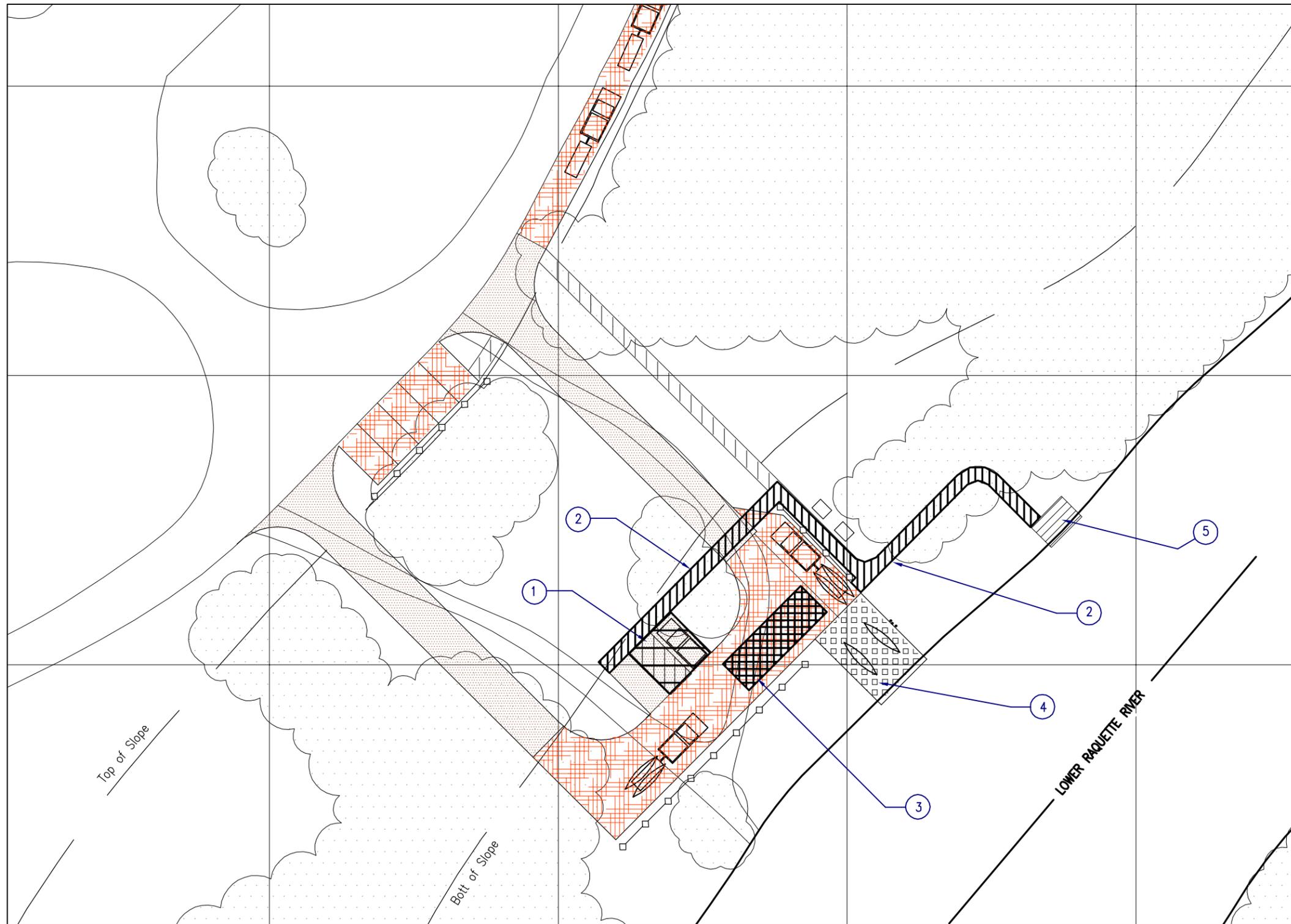
Site Review

The Town of Madrid site is currently utilized for recreational river access and has usable ,but, modest facilities. The project scope is intended to upgrade the existing facilities and provide for accessibility for disabled individuals. The primary auto parking will be located adjacent to the river, upslope from the high water elevation. One ADA accessible parking space will be provided in this lot.

A fishing platform is proposed for this location 50 feet downstream from the river access area. At this stage of the project design, the fishing platform is only located. This platform must be sized to handle wheelchair turning and clear floor space, per ADAAG 4.2, and shall include areas with maximum 34 inch railing height.

An accessible route will be provided to both the river access ramp and the fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the boat launch ramp. It appears that the slope from the parking area to the boat launch ramp may not allow for a standard accessible path. A ramp meeting all of the accessibility requirements may be required for this travel path

It appears that accessibility requirements can be met at the proposed improved river access site.

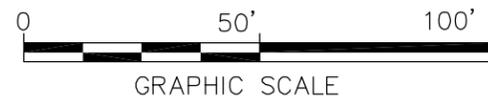


ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - KAYAKS & CANOES	
5.	FISHING DECK	

PROJECT MATERIALS		
AUTO PARKING	GRAVEL	
ACCESS DRIVE	ASPHALT	
CANOE LAUNCH	ARTICULATED CONCRETE	
WATERFRONT TRAIL	PERMEABLE PAVEMENT	
FISHING DECK	WOOD	
VEHICLE BARRIER	WOOD BOLLARD & ROPE	

LOWER RAQUETTE RIVER

ADA SITE PLAN



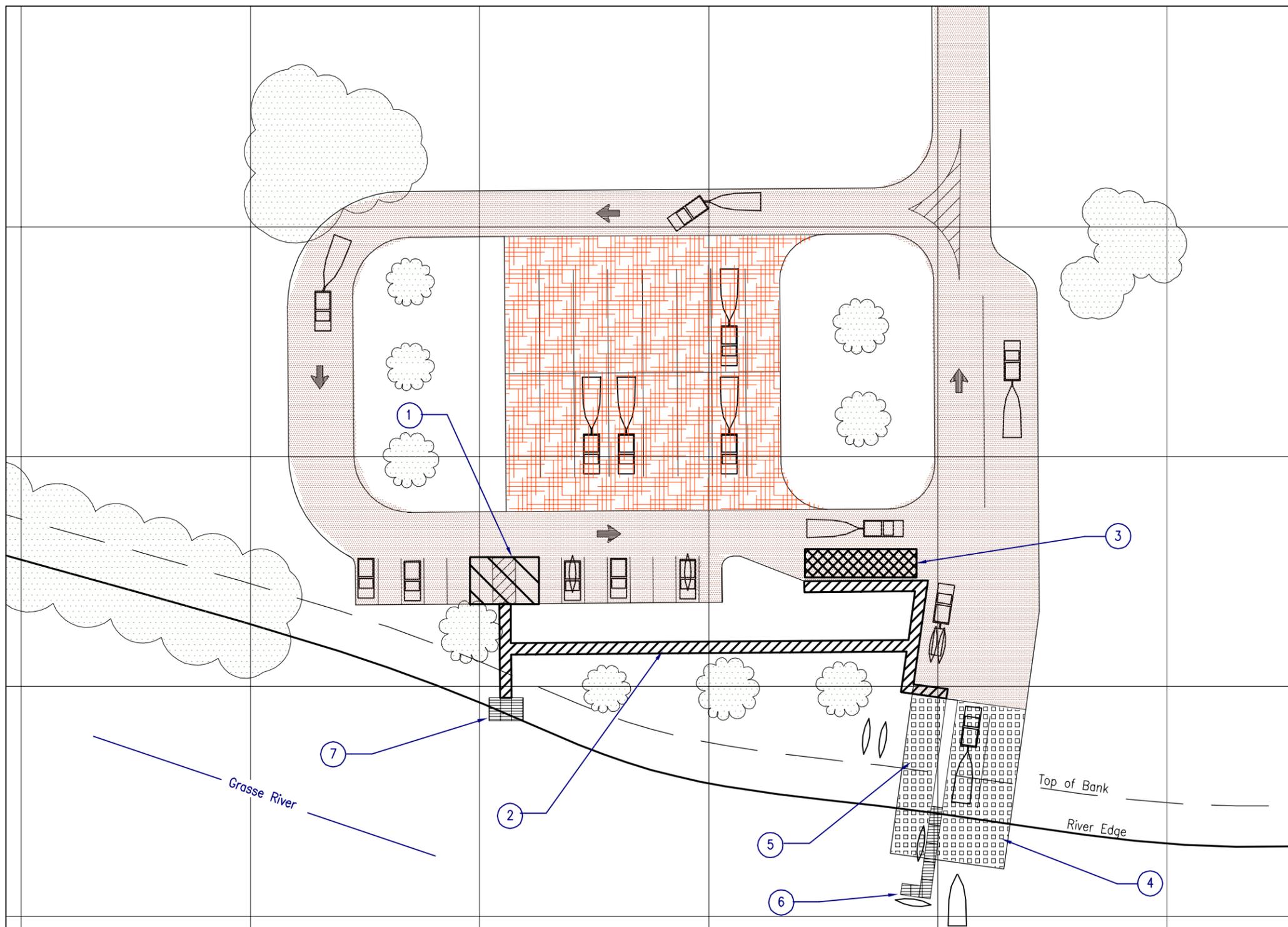
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ST LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 ADA REVIEW SITE PLAN

LOWER RAQUETTE RIVER



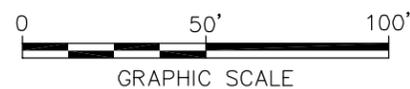
FIGURE
 4-1



ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ADA ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - SMALL BOATS	
5.	BOAT LAUNCH RAMP - CANOES/KAYAKS	
6.	ADA ACCESSIBLE FLOATING DOCK	
7.	ADA ACCESSIBLE FISHING DECK	
PROJECT MATERIALS		
ACCESS DRIVES	ASPHALT	
TRAILER PARKING	STONE	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
SIDEWALKS	PERMEABLE PAVEMENT	
FLOATING DOCK	WOOD or ALUMINUM	

MASSENA CENTER

ADA SITE PLAN



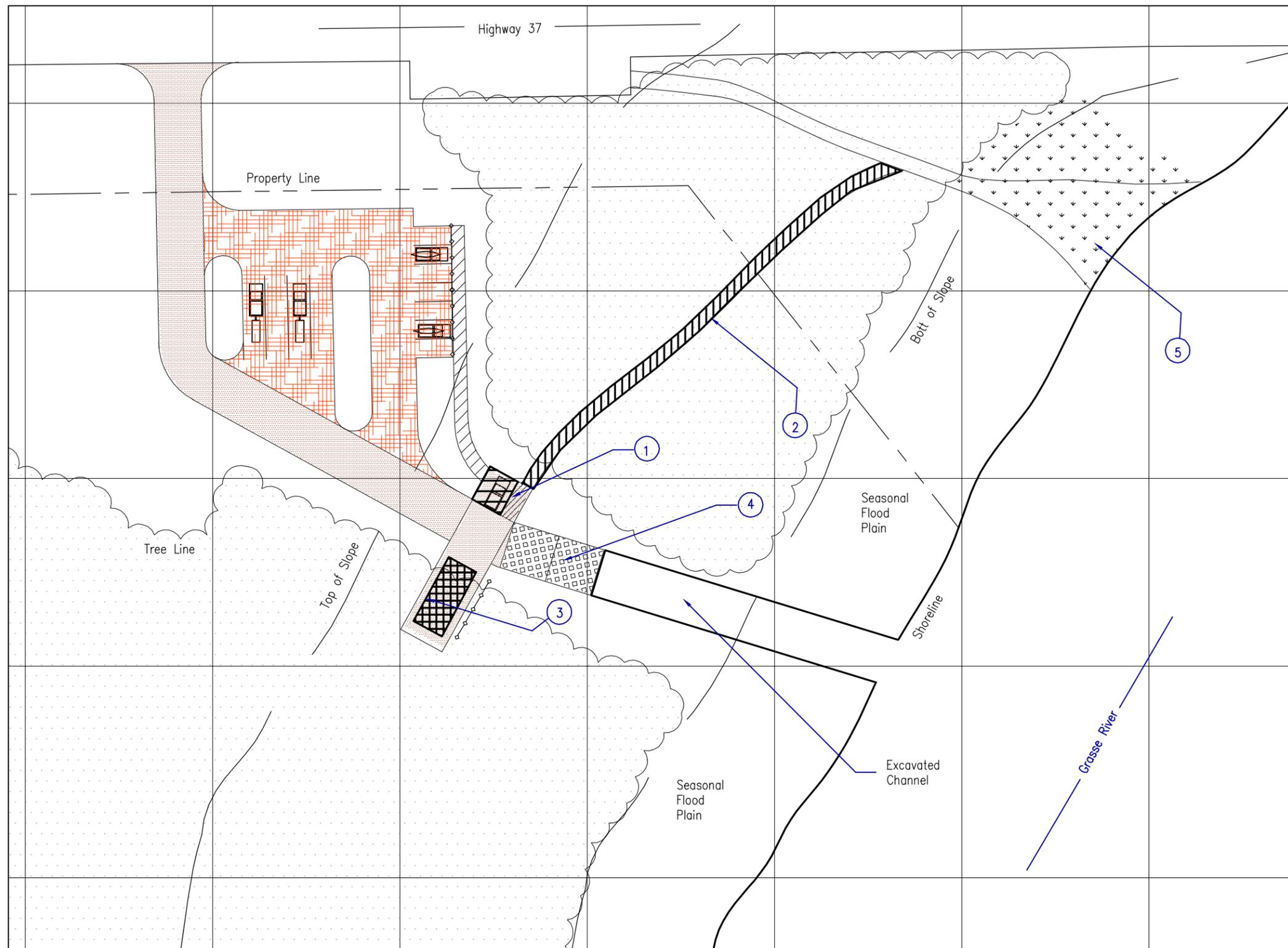
DATE: 12-2-2011

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
ADA REVIEW SITE PLAN

MASSENA CENTER



FIGURE
4-2

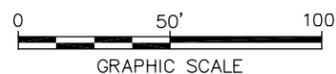


ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - SMALL BOATS, CANOES, KAYAKS	
5.	GRASSY SHORELINE FISHING AREA	

PROJECT MATERIALS		
ACCESS DRIVE	ASPHALT	
PARKING	STONE	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
SIDEWALKS	PERMEABLE PAVEMENT	
FISHING AREA	GRASS	
VEHICLE BARRIER	WOOD BOLLARD & ROPE	

ROUTE 37 BRIDGE

ADA SITE PLAN



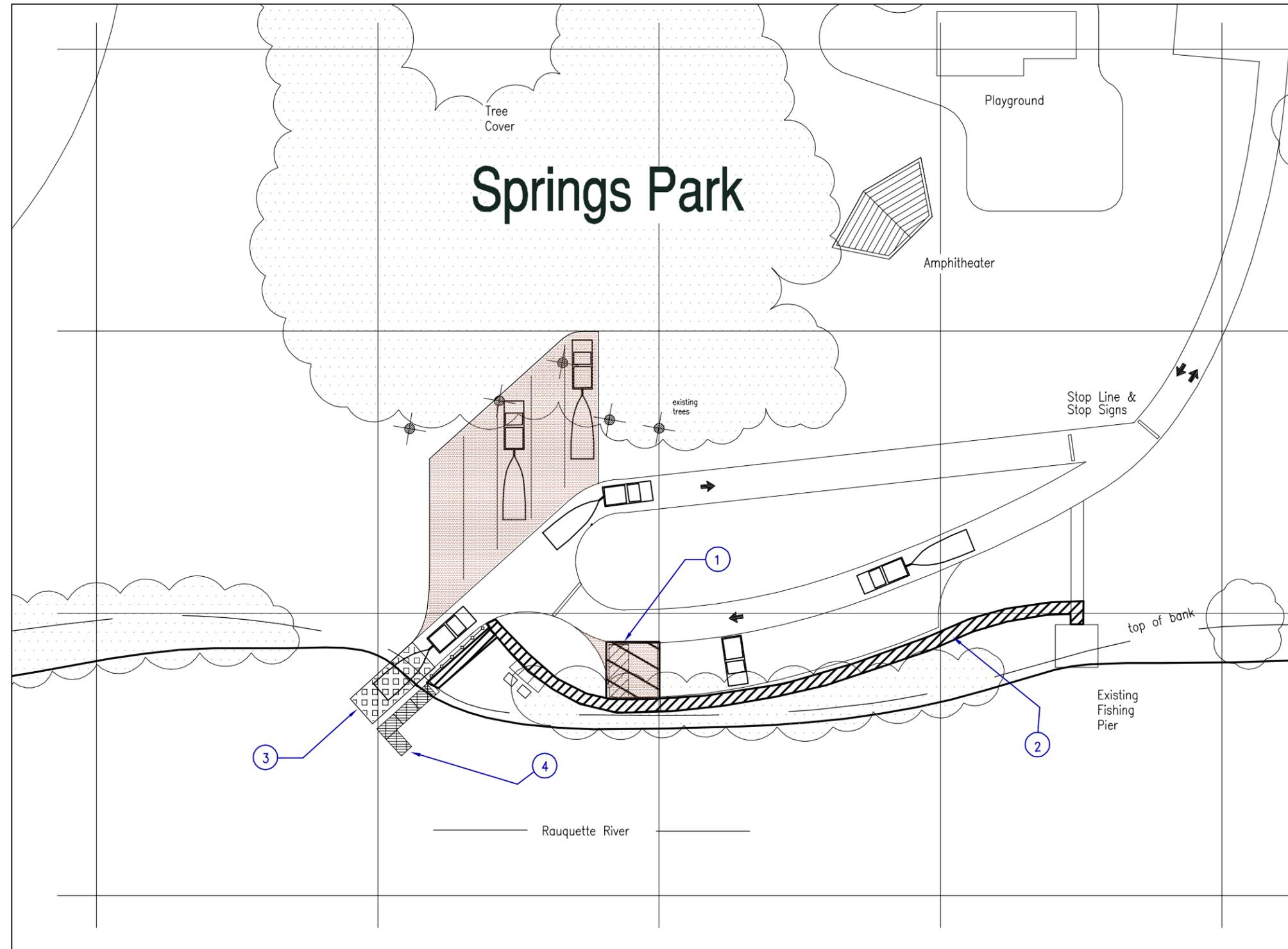
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ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
ADA REVIEW SITE PLAN

ROUTE 37 BRIDGE



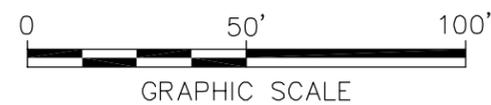
FIGURE
4-3



ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ADA ACCESSIBLE ROUTE	
3.	BOAT LAUNCH RAMP	
4.	ADA ACCESSIBLE FLOATING DOCK	
PROJECT MATERIALS		
AUTO PARKING	ASPHALT	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
SIDEWALKS	PERMEABLE PAVEMENT	

SPRINGS PARK

ADA SITE PLAN



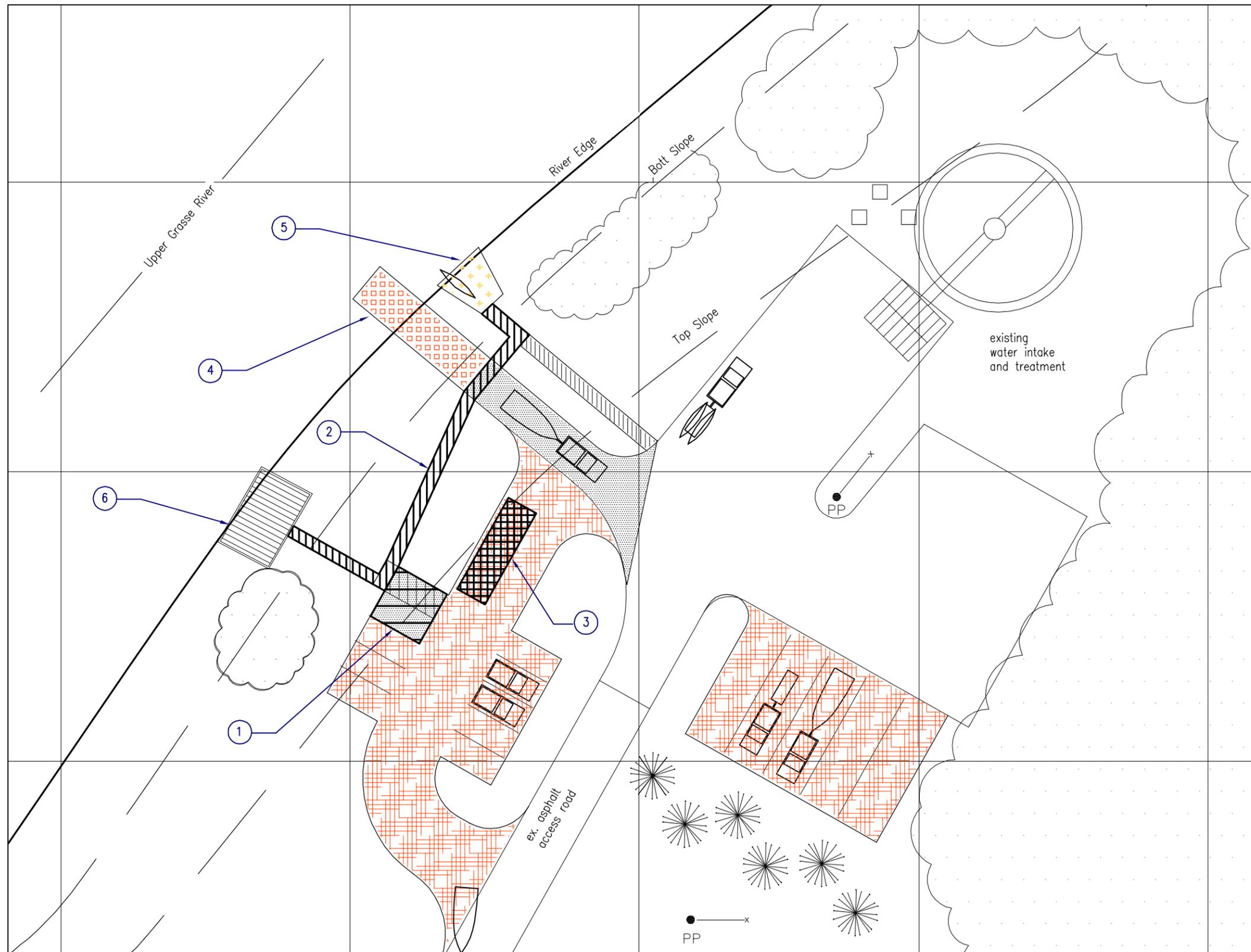
DATE: 12-2-2011

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
ADA REVIEW SITE PLAN

SPRINGS PARK



FIGURE
4-4



ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ADA ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - SMALL BOATS	
5.	BOAT LAUNCH RAMP - CANOE/KAYAK	
6.	ADA ACCESSIBLE FISHING DECK	

PROJECT MATERIALS		
ACCESS DRIVE	ASPHALT	
AUTO PARKING	GRAVEL	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
CANOE LAUNCH	SAND	
WALKS & TRAILS	PERMEABLE PAVEMENT	
FISHING PIER	WOOD	

MADRID

ADA SITE PLAN



DATE: 12-1-2011

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
ADA REVIEW SITE PLAN

MADRID



FIGURE
4-5

ATTACHMENT 5

Required Permits Review

St. Lawrence County, New York

NRD Recreational River Access Improvements

Permit Requirements

12/2/2011

Permit/Approval	Approval Agency	Discussion
1. Site Plan Approval	Town of Massena	Public Hearing
2. Building	Town of Massena	General Building Permit
3. Construction Stormwater Discharge	NY DEC Region 6	- Construction disturbance of one acre or more. - Required for Massena Center & Rt. 37 Bridge
4. Notice of Intent	NY EPA	45 days before constr. Start All sites.
5. Storm Water Management	NY DEC	Required for all sites.
6. Wetlands Section 404 Section 401	USACE USACE	Nationwide Permit 36 * Nationwide Permit 36 *
7. Other Excav of Navigable Waters Open Water of NY Coastal Consistency	NY DEC NY General Services NY Department of State	Minor Permit Sites with boat docks only. Grasse River sites only

* May fall under Regional Permit 87-000-1