



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:

Public Notice Number: 2005-00686-YN
Issue Date: July 7, 2006
Expiration Date: August 7, 2006

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 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Saratoga County Board of Supervisors
152 West High Street
Ballston Spa, NY 12020

ACTIVITY: Discharge fill material into waters of the United States, including wetlands, to install a water intake pipe and water transmission lines, with an associated pump station and water treatment plant.

WATERWAY: Kayaderosseras Creek, Snook Kill, Little Snook Kill, Putnam Brook, and other tributaries and associated wetlands, and other wetlands within the Hudson River Basin

LOCATION: Towns of Moreau, Wilton, Greenfield, Milton, Ballston, and Malta, and the City of Saratoga Springs, in 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 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.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

CENAN-OP-RW
PUBLIC NOTICE NO. 2005-00686-YN

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.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, 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:

New York State Department of Environmental Conservation:

Article 15 Title 5 Stream Disturbance
Article 24 Freshwater Wetlands

A complete set of drawings referenced in this Public Notice are also available at the following Town Halls:

Town of Ballston, Town Hall
323 Charlton Road
Ballston Spa, NY 12020

Town of Greenfield, Town Hall
7 Wilton Road
Greenfield Center, NY 12833

Town of Malta, Town Hall
2540 Route 9
Malta, NY 12020

Town of Milton, Town Hall
503 Geyser Road
Ballston Spa, NY 12020

CENAN-OP-RW
PUBLIC NOTICE NO. 2005-00686-YN

Town of Moreau, Town Hall
61 Hudson Street
South Glens Falls, NY 12803

City of Saratoga Springs, City Hall
474 Broadway
Saratoga Springs, NY 12866

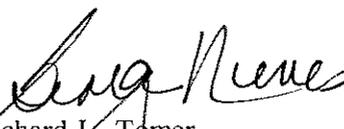
Town of Wilton, Town Hall
22 Traver Road
Gansevoort, NY 12831

Additional information on the project is located on Saratoga County's website at:
<http://www.co.saratoga.ny.us/cntyatty/attyindx.html>.

The Public Notice and associated plan sheets are located on the New York District's website at
www.nan.usace.army.mil/business/buslinks/regulat/notices.htm

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 or requests for additional information concerning this application, you may contact this office at (917) 790-8417 and ask for Steven Schumach, or by email at Steven.A.Schumach@usace.army.mil

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

FOR/ 
Richard L. Tomer
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicant, The Saratoga County Board of Supervisors (Saratoga County), has requested a Department of the Army permit to impact waters and place fill in regulated wetlands to facilitate the construction of the Saratoga County Water Treatment and Transmission Facilities Project located in the Towns of Moreau, Wilton, Greenfield, Milton, Ballston, and Malta, and the City of Saratoga Springs, Saratoga County, New York.

The project involves the construction of a raw water intake structure within the Hudson River, a raw water pumping station, 1.6-mile long raw water transmission main, and a water treatment plant located in the Town of Moreau. A 28 mile long finished water transmission line would traverse the Towns of Moreau, Wilton, Greenfield, Milton, Ballston, and Malta, and the City of Saratoga Springs. The proposed project includes the following impacts to federally jurisdictional areas:

a. Raw Water Intake Facility: Four intakes would be mounted on two concrete piers and connect to a common header pipe and intake pipe. The intakes would extend approximately 40 feet waterward of the mean high water line and contain V-wire screens with slots sized of 0.250 inch and have an intake velocity of 0.5 feet per second. The low velocity is designed to minimize the potential of debris clogging and to protect aquatic life from entering the intake system. The intake facilities would be submerged a minimum of 5 feet below the surface of the water, and the intake headers would be set a minimum of 3 feet above the bottom of the river to prevent accumulation of silt in the screens. The intake pipe would extend from the river and continue below ground by conventional excavation at the shoreline and continue to the adjacent upland pump station. Approximately 0.11 acres of the Hudson River would be temporarily impacted by the use of a temporary cofferdam and dewatering during the construction of the raw water intake structure. Three concrete pilings would be installed immediately upstream and adjacent to the intake screens and headers to protect them against damage from a submerged log or other debris. No additional fill is proposed within the river. The raw water would be pumped along a 1.6 mile long 36-inch raw water pipeline where it would connect to a water treatment plant.

b. Finished Water Transmission Line: Construction of a 28 mile long, 30-inch wide finished water transmission main would result in the permanent filling of 1.86 acres of wetlands (1.82 acres of palustrine forested and 0.04 acre of palustrine emergent). Impacts are due to filling portions of wetlands to meet required grades for emergency access. A total of approximately 2.77 acres of wetlands are proposed to be converted to palustrine emergent wetlands (2.60 acres of palustrine forested and 0.17 of palustrine scrub shrub) resulting from the construction of the finished water transmission main. Impacts are due to a restriction of woody vegetation growth over the main. Approximately 2.63 acres of palustrine emergent wetlands are proposed to be temporarily impacted during the construction of the finished water transmission main. Wetlands impacts are listed by watershed on the enclosed Wetland Impact Summary Table.

c. Stream Impacts: Approximately 1,956 linear feet of streams would be permanently impacted during construction of the proposed project. Permanent stream impacts are due to culvert installations, extensions, and stream relocations. Approximately 0.33 acres of streams would be temporarily impacted during the installation of the finished water transmission main. Specific streams impacts are listed by watershed on the enclosed Stream Impact Summary Table.

It is noted that the portions of the raw water transmission main, water treatment plant, and the finished water pipeline that are located on upland (non-wetland) property are out of Department of the Army jurisdiction.

Wetlands Mitigation:

a. Mitigation for Temporary Impacts: To mitigate for the 2.63 acres of temporary wetland impacts, the applicant proposes to restore impacted areas to pre-construction conditions. The topsoil would be segregated by trenching, soil would be restored to its original location in the soil profile, and the area would be seeded upon completion of construction. The applicant proposes to reestablish existing grades. To mitigate for temporary stream impacts associated with crossings, the applicant proposes to restore impacted areas to pre-construction conditions. The applicant proposes to stockpile stream substrate, return the material to its original location, and seed disturbed banks following construction completion.

b. Mitigation for Permanent Impacts: As part of the compensatory mitigation package for permanent conversion impacts and permanent impacts to wetlands and streams, the applicant proposes:

(1). Mitigation for permanent stream impacts includes bank stabilization in areas being crossed by the pipeline that have erosion issues. Several areas have been identified and would be stabilized with soft engineering and vegetation plantings.

(2). Establish approximately 4 acres of forested wetlands consisting of the establishment of 3 acres of forested wetlands at the Northern Pines Road Wetland Mitigation Site located at the Town of Wilton and the establishment of 1 acre of forested wetlands at the Kobor Road Wetland Mitigation Site. Both sites are located within Saratoga County. The established wetlands would be similar to existing wetlands in the area and would provide nesting opportunities for breeding birds, habitat value for native wetland-dependant species, food chain support, and water quality improvements within the watershed.

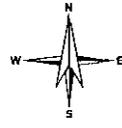
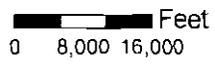
The applicant's stated purpose for this project is to provide a public water system to supply several Saratoga County municipalities. Municipalities would be able to purchase treated water from the Saratoga County Water Treatment and Transmission Facilities Project to meet long-term water needs. This project would establish a regional public water supply system to provide wholesale water to municipalities that currently have poor water quality, insufficient quantity, or purchase water from outside Saratoga County.

Site Location Index Map

Saratoga County, New York



— Proposed Project Site
 □ Town Boundaries



Saratoga County Water Treatment and Transmission Facilities

C.T. Male Associates, P.C.
 50 Century Hill Drive, Latham, NY 12110
 Phone: 518-786-7400 Fax: 518-786-7299



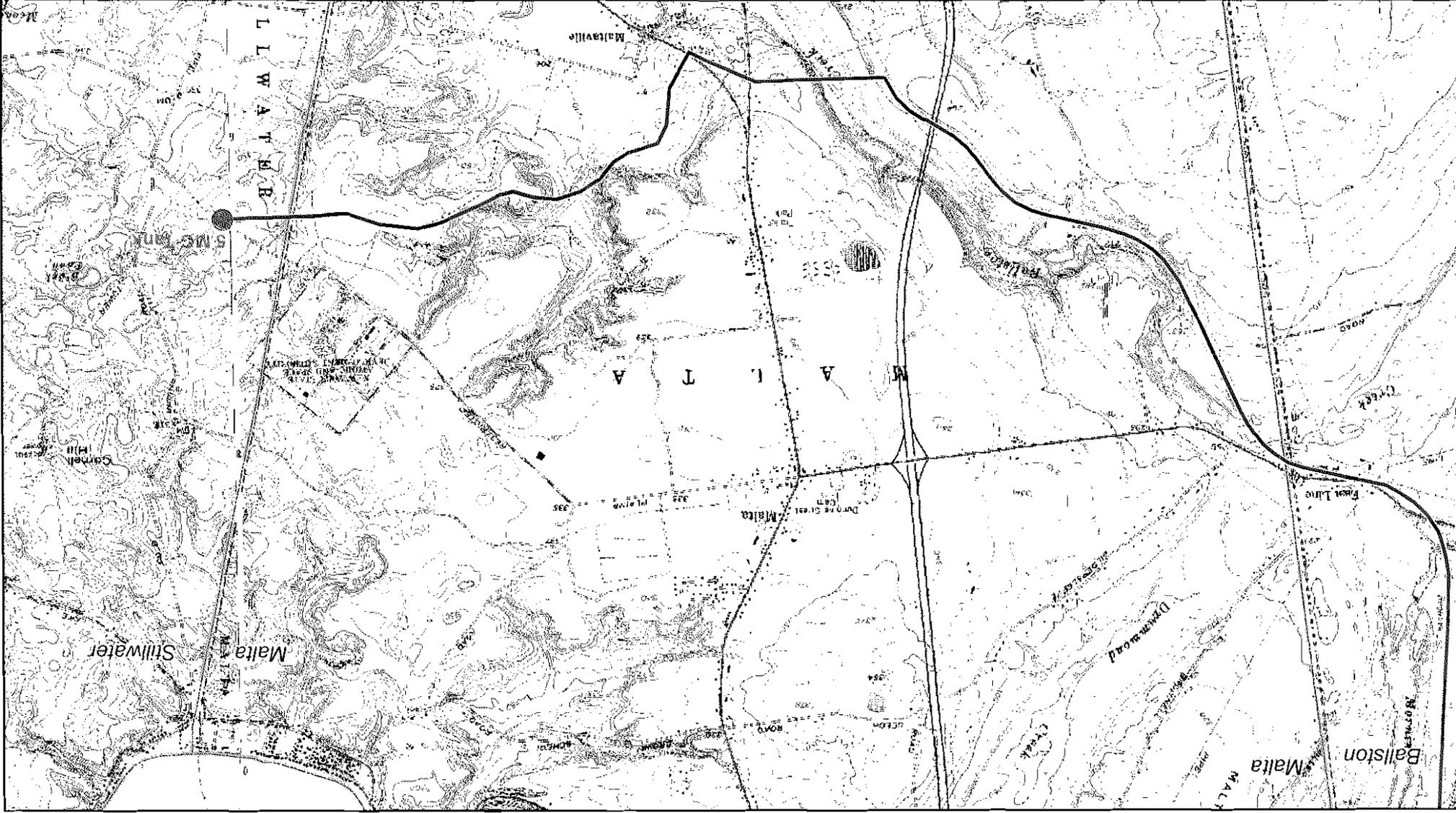
**MALCOLM
 PIRNIE**

Scale: 1 inch equals 15,000 feet
 Project Number: 04.9598
 Data Source: NYS GIS Clearinghouse, CUGIR
 Projection: UTM Z18 NAD 27

Site Location Index Map

Site Location Map

Saratoga County, New York



Proposed Project Site
Town Boundaries
Site Driveways

Map 1 of 5

0 1,000 2,000
Feet



C.T. Male Associates, P.C.
50 Century Hill Drive, Latham, NY 12110
Phone: 518-789-7400 Fax: 518-789-7298



MATCOLM
PIRRIE

Saratoga County Water Treatment and Transmission Facilities

Scale: 1 inch equals 2,000 feet

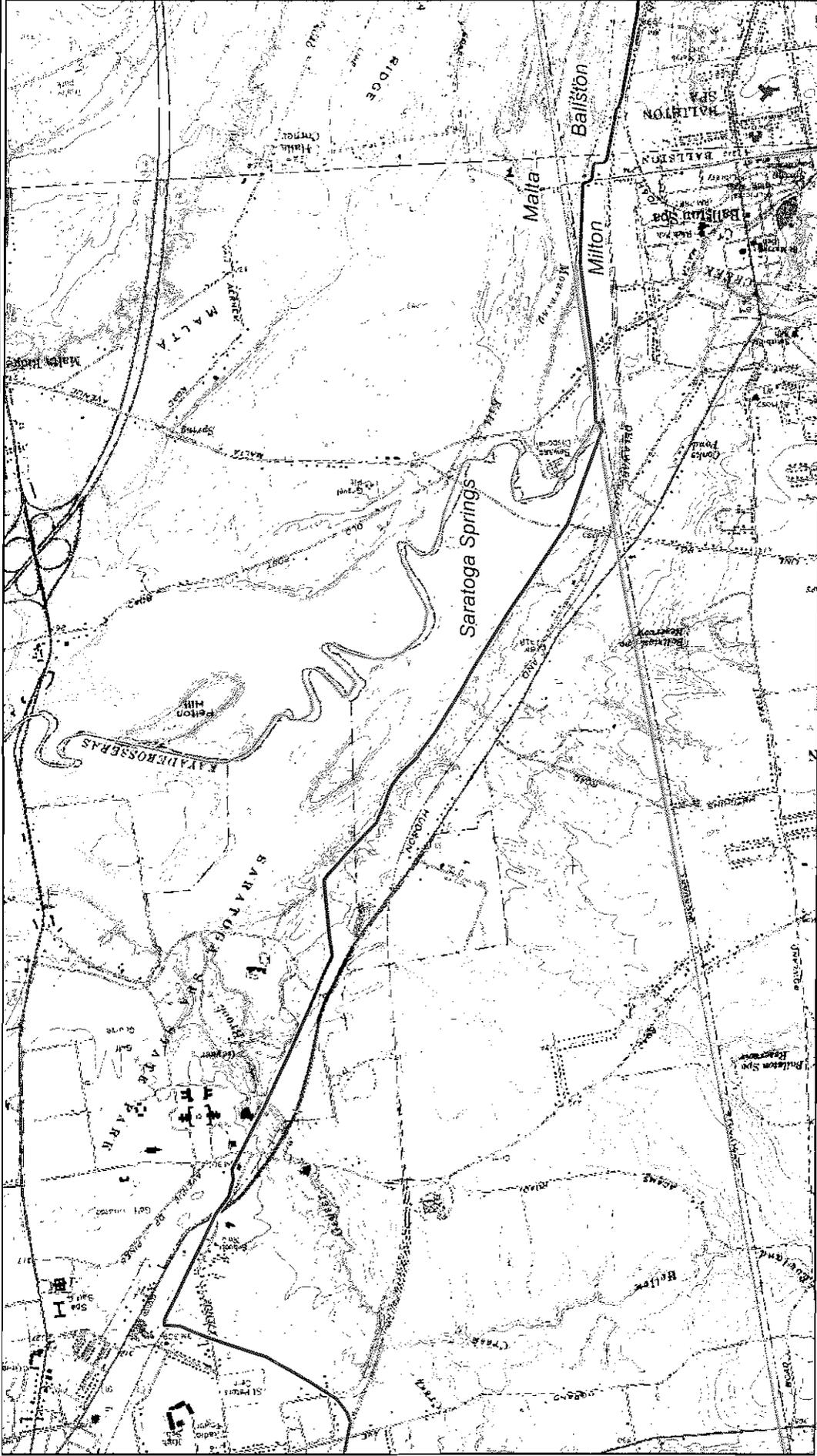
Project Number: 04.9598

Data Source: NYS GIS Clearinghouse, CUGIR

Projection: UTM Z18 MAD 27

Site Location Map

Saratoga County, New York



Map 2 of 5



Proposed Project Site
Town Boundaries

Saratoga County Water Treatment and Transmission Facilities

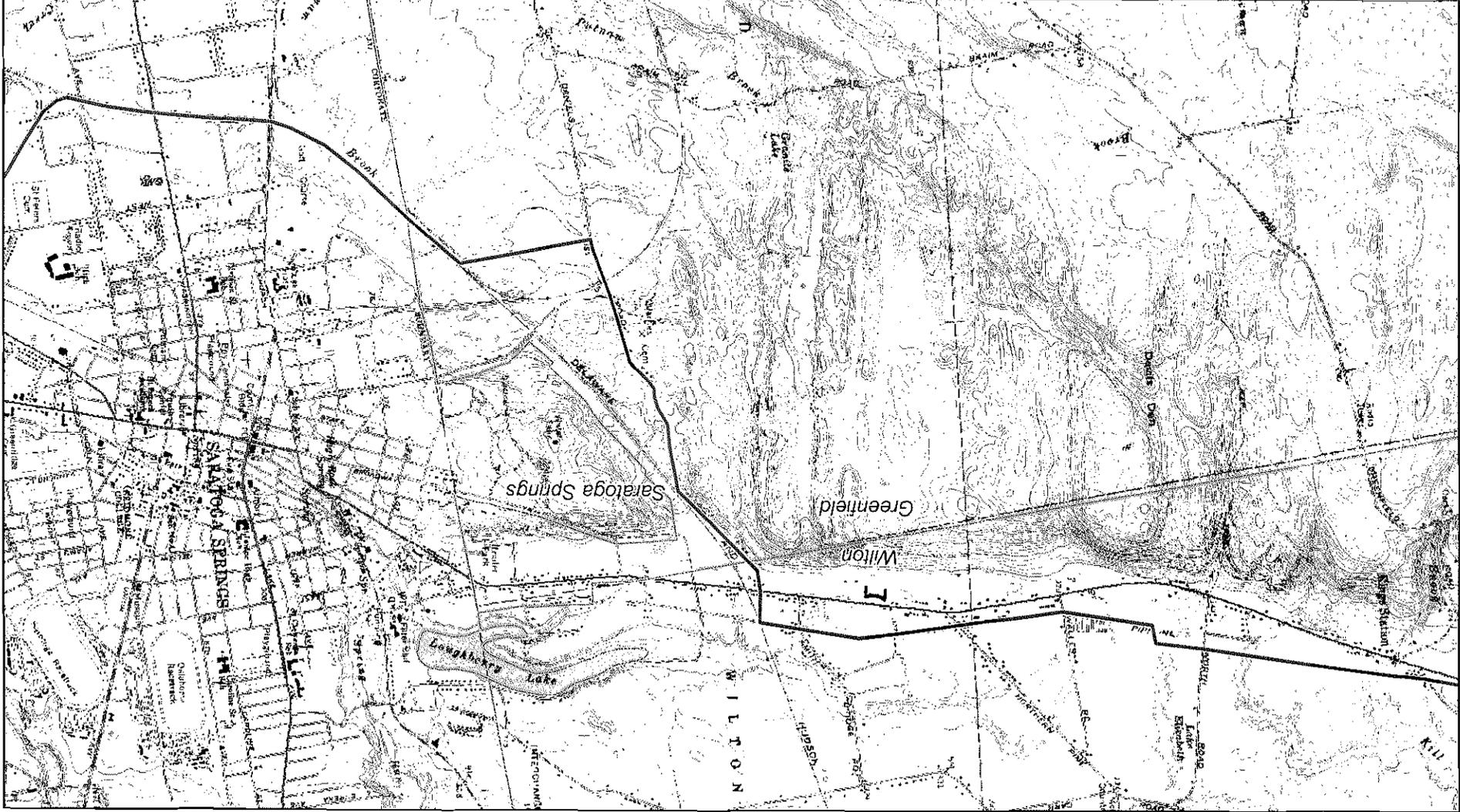


**MALCOLM
PIRNIE**

Project Number: 04-9598
Data Source: NYS GIS Clearinghouse, CUGIR
Projection: UTM Z18 NAD 27

Site Location Map

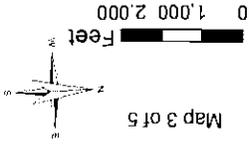
Saratoga County, New York



Saratoga County Water Treatment and Transmission Facilities

Map 3 of 5

Proposed Project Site
Town Boundaries



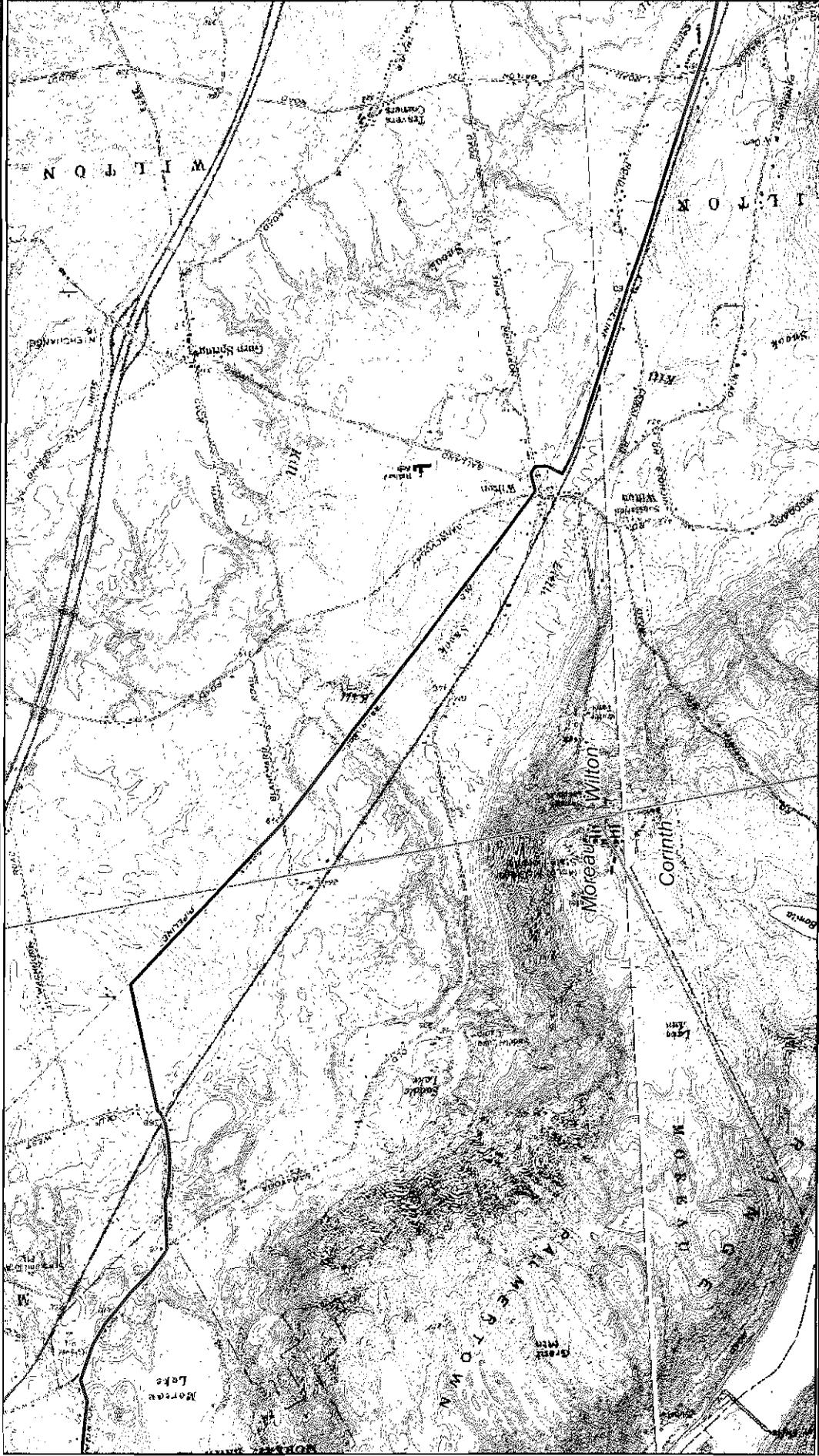
C.T. Male Associates, P.C.
50 Century Hall Drive, Latham, NY 12110
Phone: 518-786-7400, Fax: 518-786-7299

MALCOLM PIRNIE

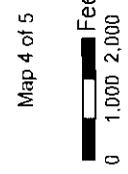
Project Number: 04.9598
Data Source: NYS GIS Clearinghouse, CUGIR
Projection: UTM Z18 NAD 27

Site Location Map

Saratoga County, New York



Proposed Project Site
Town Boundaries



Map 4 of 5

Saratoga County Water Treatment and Transmission Facilities

C.T. Male Associates, P.C.
50 Century Hill Drive, Latham, NY 12110
Phone: 518-765-7400 Fax: 518-765-7299

**MALCOLM
PIRNIE**

Project Number: 04.9598
Data Source: NYS GIS Clearinghouse, CUGIR
Projection: UTM Z18 NAD 27

Table I
Wetland Impact Summary Table

Section of Proposed Water Line Route (Listed from North to South)	Wetland Number	Data Point	Description	Watershed	NYS FWI Identification ¹	Length of Crossing (ft.) ^{2,3}	Area of Perm. Impact - change in contours (sq. ft.)	Area of Perm. Conversion - no change in contours (sq. ft.)	Area of Temp. Impact - no change in contours (sq. ft.)	Contract
Old West Road to Blanchard Road	59/59B	DP-59	Forested	Snook Kill	GA-17 (Amended)	155	2,360	2,229	N/A	3
	58	DP-58	Forested	Snook Kill	GA-17 (Amended)	80	2,632	N/A	N/A	3
	57/57B	DP57, DP57B	Forested	Snook Kill	GA-17 (Amended)	266	7,821	N/A	N/A	3
	57C	DP-2A	Forested	Snook Kill	GA-17 (Amended)	104	3,583	N/A	N/A	3
	56	DP-56	Forested	Snook Kill	GA-17 (Amended)	70	3,643	N/A	N/A	3
	56A	DP-1A	Forested	Snook Kill	GA-17 (Amended)	70	2,381	N/A	N/A	3
	56B/55	DP-1A, DP-55	Forested	Snook Kill	GA-17 (Amended)	260	8,455	N/A	N/A	3
	54	DP-54	Forested	Snook Kill	GA-17 (Amended)	40	1,578	N/A	N/A	3
	53	DP-53	Forested	Snook Kill	GA-17 (Amended)	63	2,419	N/A	N/A	3
	52	DP-52	Emergent/Forested	Snook Kill	GA-17 (Amended)	131	3,495	N/A	N/A	3
	51	DP-51	Emergent/Forested	Snook Kill	GA-17 (Amended)	157	5,572	N/A	N/A	3
	50	DP-50	Forested	Snook Kill	GA-17 (Amended)	135	2,160	2,239	N/A	3
	49C	DP-49	Forested	Snook Kill	GA-17 (Amended)	291	N/A	9,253	N/A	3
	49B	DP-49	Forested	Snook Kill	GA-17 (Amended)	4	N/A	189	N/A	3
	49A	DP-49	Forested	Snook Kill	Not Mapped	Not Crossed	N/A	217	N/A	3
	49	DP-49	Forested	Snook Kill	GA-17 (Amended)	34	N/A	1,075	N/A	3
	48	DP-48	Forested	Snook Kill	Not Mapped	109	1,036	2,721	N/A	3
47	DP-47	Forested	Snook Kill	GA-17 (Amended)	189	N/A	5,714	N/A	3	
46	DP-46	Forested	Snook Kill	Not Mapped	171	N/A	4,945	N/A	3	
Blanchard Road to Northern Pines Road	61	DP-61	Emergent	Snook Kill	Not Mapped	Not Crossed	1,361	N/A	N/A	3
	62	DP-62	Forested	Snook Kill	Not Mapped	Not Crossed	4,691	N/A	N/A	3
	63	DP-63	Emergent/Forested	Snook Kill	Not Mapped	Not Crossed	7,750	N/A	N/A	3
	64	DP-64C	Forested	Snook Kill	Not Mapped	2	5,319	N/A	N/A	3
	64A	DP-64C	Forested	Snook Kill	Not Mapped	21	6,623	N/A	N/A	3
	64C	DP-64C	Forested	Snook Kill	Not Mapped	Not Crossed	308	N/A	N/A	3
	66	DP-66	Forested	Snook Kill	Not Mapped	Not Crossed	2,880	N/A	N/A	3
	66A	DP-66	Forested	Snook Kill	GA-18 (Amended)	Not Crossed	237	N/A	N/A	3
68	DP-68	Emergent/Forested	Snook Kill	GA-18 (Amended)	883	N/A	8,204	13,142	3	
Northern Pines Road to Ernst Road (Route 9 Re-Route)	45D	DP-45C	Emergent	Snook Kill	GA-18 (Amended)	4	N/A	N/A	151	4
	45C	DP-45C	Emergent	Snook Kill	GA-18 (Amended)	Not Crossed	N/A	N/A	1,464	4
	A12	DP-A12	Emergent	Snook Kill	GA-18 (Amended)	162	N/A	N/A	4,320	4
	A11	DP-A11	Emergent	Snook Kill	GA-18 (Amended)	173	N/A	N/A	3,958	4
	A1	DP-A1	Emergent	Snook Kill	GA-18 (Amended)	414	N/A	N/A	12,356	4

Table I
Wetland Impact Summary Table

Section of Proposed Water Line Route (Listed from North to South)	Wetland Number	Data Point	Description	Watershed	NYS RWQ Identification ¹	Length of Crossing (ft.) ^{2,3}	Area of Perm. Impact - change in contours (sq. ft.)	Area of Perm. Conversion - no change in contours (sq. ft.)	Area of Temp. Impact - no change in contours (sq. ft.)	Contract	
Ernst Road to Smith Bridge Road	A2	DP-A2	Emergent	Snook Kill	GA-18 (Amended)	29	497	N/A	N/A	4	
	A10	DP-A10	Emergent	Snook Kill	GA-18 (Amended)	Not Crossed	N/A	N/A	50	4	
	A3	DP-A3	Emergent	Snook Kill	GA-18 (Amended)	186	N/A	N/A	4,660	4	
	A9	DP-A9	Emergent/Forested	Snook Kill	Not Mapped	80	N/A	283	981	4	
	A4	DP-A4	Emergent/Forested	Snook Kill	Not Mapped	654	N/A	3,921	7,852	4	
	A5	DP-A5	Emergent/Forested	Snook Kill	Not Mapped	350	N/A	4,596	5,239	4	
	A8	DP-A8	Forested	Snook Kill	Not Mapped	81	N/A	2,100	N/A	4	
	A6	DP-A6	Forested	Snook Kill	Not Mapped	193	N/A	4,534	N/A	4	
	A7	DP-A7	Forested	Snook Kill	Not Mapped	150	N/A	3,872	N/A	4	
	A14	DP-A14	Emergent	Snook Kill	Not Mapped	Not Crossed	N/A	N/A	40	4	
	87/A13	DP-87	Emergent	Snook Kill	Not Mapped	467	N/A	N/A	13,364	4	
	86	DP-86	Emergent	Snook Kill	Not Mapped	4	N/A	N/A	88	4	
	101	DP-101	Forested	Snook Kill	Not Mapped	179	N/A	5,322	N/A	4	
	110	DP-110	Forested	Snook Kill	C-39 - Class 2	178	N/A	5,332	N/A	4	
	111	DP-111	Forested	Snook Kill	Not Mapped	91	N/A	2,571	N/A	4	
	Smith Bridge Road to Route 9N	109	DP-109	Forested	Loughberry Lake	Not Mapped	89	N/A	2,035	N/A	5
		105	DP-105	Forested	Putnam Brook	Not Mapped	31	N/A	757	N/A	5
104C		DP-104C	Forested	Putnam Brook	Not Mapped	7	N/A	552	N/A	5	
104		DP-104	Emergent	Putnam Brook	S-19 (Amended)	40	N/A	N/A	1,016	5	
103		DP-103	Forested	Putnam Brook	S-19 (Amended)	273	N/A	8,525	N/A	5	
103A		DP-103	Forested	Putnam Brook	S-19 (Amended)	Not Crossed	N/A	182	N/A	5	
103B		DP-103	Forested	Putnam Brook	S-19 (Amended)	75	N/A	2,260	N/A	5	
103C		DP-103	Forested	Putnam Brook	S-19 (Amended)	10	N/A	294	N/A	5	
102		DP-102	Scrub-Shrub	Putnam Brook	Not Mapped	Not Crossed	N/A	60	N/A	5	
101A		DP-101A	Emergent	Putnam Brook	Not Mapped	Not Crossed	N/A	N/A	519	5	
Route 9N to Route 50	99	DP-98	Emergent	Putnam Brook	Not Mapped	7	N/A	N/A	281	5	
	108A	DP-108	Forested	Putnam Brook	S-19 (Amended)	Not Crossed	N/A	694	N/A	5	
	95	DP-95	Emergent	Putnam Brook	Not Mapped	72	N/A	N/A	2,143	5	
	95A	DP-95	Emergent	Putnam Brook	Not Mapped	360	N/A	N/A	10,378	5	
	96	DP-96	Forested	Geyser Brook	Not Mapped	43	N/A	745	N/A	5	
	38A	DP-38A	Emergent	Geyser Brook	Not Mapped	2	N/A	N/A	60	6	
Route 50 to Saratoga Spa State Park Boundary	37	DP-37A	Forested	Geyser Brook	Not Mapped	3	N/A	896	N/A	6	
	37B	DP-37A	Emergent	Geyser Brook	Not Mapped	29	N/A	N/A	781	6	
	39	DP-39	Forested	Geyser Brook	Not Mapped	62	N/A	2,268	N/A	6	

Table 1
Wetland Impact Summary Table

Section of Proposed Water Line (Route listed from North to South)	Wetland Number	Data Point	Description	Watershed	NYS RWV Identification?	Length of Crossing (ft.)?	Area of Perm. Impact - change in contours (sq. ft.)	Area of Perm. Conversion - no change in contours (sq. ft.)	Area of Temp. Impact - no change in contours (sq. ft.)	Contract	
Matia Ave. to East High Street	42A	DP-12A	Forested	Kayderosseras Creek	Not Mapped	1	N/A	320	N/A	6	
	44A	DP-44	Forested	Kayderosseras Creek	Not Mapped	121	4,114	N/A	N/A	6	
	75	DP-75	Emergent	Kayderosseras Creek	Not Mapped	117	N/A	N/A	2,669	6	
	76	DP-76	Emergent/Forested	Kayderosseras Creek	Not Mapped	81	N/A	1,788	648	6	
	78	DP-78	Forested	Kayderosseras Creek	Not Mapped	36	N/A	1,031	N/A	6	
	91/91A	DP-91	Emergent/Forested	Kayderosseras Creek	Not Mapped	159	N/A	1,257	1,961	6	
	93A	DP-93	Scrub-Shrub	Kayderosseras Creek	Not Mapped	42	N/A	408	N/A	6	
	93B	DP-93	Scrub-Shrub	Kayderosseras Creek	Not Crossed		N/A	114	N/A	6	
	94C	-	Emergent	Kayderosseras Creek	Not Mapped	3	N/A	N/A	61	6	
	6C	-	Scrub-Shrub	Kayderosseras Creek	Not Mapped	13	N/A	272	N/A	6	
	36	DP-36, DP-36B	Emergent/Forested	Kayderosseras Creek	5-39 - Class 3	1,223	N/A	19,833	16,830	6	
	East High Street to East Line Road	31B	DP-31A	Emergent	Mourning Kill	Not Mapped	23	N/A	N/A	3,859	7
		34	DP-34A	Forested	Mourning Kill	Not Mapped	40	N/A	810	N/A	7
		35	DP-35A	Scrub-Shrub	Mourning Kill	Not Mapped	284	N/A	4,834	N/A	7
		28E	DP-36	Emergent	Mourning Kill	R-50 (Amended)	Not Crossed	N/A	N/A	164	7
		28	DP-32	Forested	Mourning Kill	R-50 (Amended)	Not Crossed	N/A	N/A	N/A	7
30B		DP-35	Scrub-Shrub	Mourning Kill	Not Mapped	Not Crossed	N/A	40	N/A	7	
East High Street to East Line Road	11A	DP-15	Emergent	Ballston Creek	Not Mapped	Not Crossed	N/A	N/A	1,110	7	
	11	DP-14	Emergent	Ballston Creek	Not Mapped	27	N/A	N/A	444	7	
	9	DP-12	Emergent/Scrub-Shrub	Ballston Creek	Not Mapped	217	N/A	1,737	3,462	7	
	7	DP-10	Emergent	Ballston Creek	Not Mapped	Not Crossed	N/A	N/A	475	7	

Table Notes:

1. Classifications have been provided for NYS Freshwater Wetlands (FWW) shown on the official NYSDEC wetland maps. Classifications have not been provided for NYS Freshwater Wetlands that have been added to the amended maps.
2. Length of crossing was calculated where the centerline of the transmission main crosses the wetland. Wetlands that are listed as "not crossed" are not crossed by the centerline of the pipe, however they are being temporarily or permanently impacted by construction activities within the transmission main corridor.
3. Wetlands that are listed as having "no impact" are located outside of the transmission main corridor and will not be impacted during construction.

Table II
Stream Impact Summary Table

Section of Proposed Water Line Route (Listed from North to South)	Stream Number	Associated Wetland	Watershed	NYSDEC Stream Classification ^{1,2}	Length of Stream Crossing (ft.) ^{3,4}	Area of Perm. Impact (sq. ft.)	Area of Temp. Impact (sq. ft.)	Linear Footage of Permanent Stream Impact (ft.) ⁵	Contract
Potter Road to Old West Road	Ephemeral Stream 20	N/A	Snook Kill	D	Not Crossed	N/A	103	N/A	3
	Ephemeral Stream 21	N/A	Snook Kill	D	Not Crossed	N/A	150	N/A	3
Old West Road to Blanchard Road	Intermittent Stream 29A	Wetlands 58 and 59	Snook Kill	C	15	518	N/A	104	3
	Intermittent Stream 29	Wetlands 58 and 59	Snook Kill	C	Not Crossed	1,116	N/A	N/A	3
	Ephemeral Stream 56A	Wetlands 56 and 56A	Snook Kill	D	Not Crossed	36	N/A	18	3
	Intermittent Stream 18	Wetland 47	Snook Kill	C(T)	Not Crossed	N/A	15	N/A	3
Blanchard Road to Northern Pines Road	Ephemeral Stream 32	N/A	Snook Kill	D	Not Crossed	448	N/A	68	3
	Perennial Stream 9	N/A	Snook Kill	C	16	601	N/A	44	3
	Ephemeral Stream 33	Wetland 61	Snook Kill	D	1	33	N/A	33	3
	Ephemeral Stream 34	Wetlands 61 and 62	Snook Kill	D	Not Crossed	35	N/A	35	3
	Intermittent Stream 34	Wetland 62	Snook Kill	C(T)	3	236	N/A	236	3
	Perennial Stream 10A	Wetland 62	Snook Kill	C(T)	Not Crossed	3,830	N/A	114	3
	Intermittent Stream 35	Wetland 62	Snook Kill	D	Not Crossed	64	N/A	64	3
	Ephemeral Stream 36	Wetland 63	Snook Kill	D	2	145	N/A	51	3
	Perennial Stream 11	Wetland 63	Snook Kill	C	2	442	N/A	221	3
	Perennial Stream 12 (Little Snook Kill)	Wetlands 64 and 64A	Snook Kill	C(T)	Not Crossed	6,227	N/A	285	3
	Ephemeral Stream 39	Wetland 64A	Snook Kill	D	Not Crossed	15	N/A	15	3
	Intermittent Stream 41	N/A	Snook Kill	D	1	41	N/A	41	3
	Intermittent Stream 42	Wetland 65	Snook Kill	D	1	35	N/A	35	3
	Ephemeral Stream 43	Wetland 65	Snook Kill	D	Not Crossed	24	N/A	18	3
	Intermittent Stream 43	N/A	Snook Kill	D	1	35	N/A	35	3
	Intermittent Stream 44	N/A	Snook Kill	D	1	31	N/A	31	3
	Intermittent Stream 45	Wetland 66	Snook Kill	D	2	93	N/A	47	3
	Ephemeral Stream 41	N/A	Snook Kill	D	Not Crossed	143	N/A	143	3
Perennial Stream 13A	Wetland 66A	Snook Kill	C	9	795	N/A	115	3	

**Table II
Stream Impact Summary Table**

Section of Proposed Water Line Route (Listed from North to South)	Stream Number	Associated Wetland	Watershed	NYSDEC Stream Classification ^{1,2}	Length of Stream Crossing (ft.) ^{3,4}	Area of Perm. Impact (sq. ft.)	Area of Temp. Impact (sq. ft.)	Linear Footage of Permanent Stream Impact (ft.) ⁵	Contract
Northern Pines Road to Ernst Road (Route 9 Re-Route)	Intermittent Stream A1	Wetland A1	Snook Kill	C(T)	Not Crossed	N/A	138	N/A	4
	Perennial Stream A1	Wetland A3	Snook Kill	C(T)	28.0	N/A	823	N/A	4
	Intermittent Stream A3	N/A	Snook Kill	C(T)	Not Crossed	328	N/A	23	4
	Ephemeral Stream A1	N/A	Snook Kill	D	2	N/A	70	N/A	4
	Intermittent Stream A4	N/A	Snook Kill	C(T)	9.0	N/A	80	N/A	4
	Intermittent Stream A6	N/A	Snook Kill	C(T)	Not Crossed	N/A	12	N/A	4
	Intermittent Stream A5	N/A	Snook Kill	C(T)	16	N/A	472	N/A	4
	Intermittent Stream A7	Wetland A13	Snook Kill	C	Not Crossed	N/A	80	N/A	4
	Intermittent Stream 57A	Wetlands 86 and 87	Snook Kill	C	Not Crossed	N/A	11	N/A	4
Ernst Road to Smith Bridge Road	Perennial Stream 18 (Snook Kill)	Wetland 90	Snook Kill	C(T)	15	N/A	461	N/A	4
	Perennial Stream 30	Wetland 101	Snook Kill	C	11	N/A	352	N/A	4
	Perennial Stream 22	Wetland 110	Snook Kill	C(T)	15	N/A	434	N/A	4
Smith Brige Road to Route 9N	Ephemeral Stream 70/70A	N/A	Loughberry Lake	D	7	N/A	76	N/A	5
	Intermittent Stream 70	N/A	Loughberry Lake	A	3	N/A	84	N/A	5
	Intermittent Stream 69	N/A	Loughberry Lake	A	2	N/A	36	N/A	5
	Intermittent Stream 68	Wetland 109	Loughberry Lake	A	6	N/A	109	N/A	5
	Intermittent Stream 65	Wetland 103	Putnam Brook	D	2	N/A	62	N/A	5
	Intermittent Stream 63	Wetlands 99 and 100A	Putnam Brook	C	26	N/A	720	N/A	5
	Intermittent Stream 62	N/A	Putnam Brook	C(T)	3	N/A	100	N/A	5
	Ephemeral Stream 63	Wetland 98A	Putnam Brook	D	2	N/A	66	N/A	5
	Ephemeral Stream 64	N/A	Putnam Brook	D	Not Crossed	N/A	2	N/A	5
Perennial Stream 21 (Putnam Brook)	Wetlands 108 and 108A	Putnam Brook	C(T)	39	N/A	1,242	N/A	5	
Route 50 to Saratoga State Park Boundary	Intermittent Stream 11	Wetland 39A	Geyser Brook	C	14	N/A	387	N/A	6
	Ephemeral Stream 19	Wetland 41	Geyser Brook	D	2	N/A	61	N/A	6

**Table II
Stream Impact Summary Table**

Section of Proposed Water Line Route (Listed from North to South)	Stream Number	Associated Wetland	Watershed	NYSDEC Stream Classification ^{1,2}	Length of Stream Crossing (ft.) ^{3,4}	Area of Perm. Impact (sq. ft.)	Area of Temp. Impact (sq. ft.)	Linear Footage of Permanent Stream Impact (ft.) ⁵	Contract
	Ephemeral Stream 19A	Wetland 4I	Kayaderosseras Creek	D	2	N/A	72	N/A	6
	Perennial Stream 31	N/A	Kayaderosseras Creek	C	Not Crossed	81	N/A	6	6
	Intermittent Stream 14	N/A	Kayaderosseras Creek	C	14	N/A	401	N/A	6
	Perennial Stream 32	N/A	Kayaderosseras Creek	C	15	N/A	420	N/A	6
	Intermittent Stream 16	Wetlands 42 and 42A	Kayaderosseras Creek	D	1	N/A	14	N/A	6
	Intermittent Stream 17	N/A	Kayaderosseras Creek	C	2	N/A	62	N/A	6
Saratoga Spa State Park Boundary to Malta Ave.	Perennial Stream 33	N/A	Kayaderosseras Creek	C	Not Crossed	344	N/A	40	6
	Intermittent Stream 51	N/A	Kayaderosseras Creek	D	5	N/A	83	N/A	6
	Perennial Stream 13	Wetland 75	Kayaderosseras Creek	C	7	N/A	206	N/A	6
	Ephemeral Stream 44 /45	Wetland 76	Kayaderosseras Creek	D	Not Crossed	N/A	360	N/A	6
	Intermittent Stream 44C	N/A	Kayaderosseras Creek	D	Not Crossed	N/A	31	N/A	6
	Intermittent Stream 44B	N/A	Kayaderosseras Creek	D	4	N/A	242	N/A	6
	Intermittent Stream 44A	N/A	Kayaderosseras Creek	D	Not Crossed	N/A	276	N/A	6
	Perennial Stream 14	Wetland 78	Kayaderosseras Creek	C	12	N/A	343	N/A	6
	Ephemeral Stream 53A	Wetlands 91 and 91A	Kayaderosseras Creek	D	3	N/A	54	N/A	6
	Perennial Stream 19	Wetland 93B	Kayaderosseras Creek	C(T)	Not Crossed	N/A	24	N/A	6
	Ephemeral Stream 17	N/A	Kayaderosseras Creek	D	2	N/A	27	N/A	6
	Perennial Stream 6	Wetland 36	Kayaderosseras Creek	C	3	N/A	55	N/A	6
	Ephemeral Stream 60	N/A	Kayaderosseras Creek	D	1	N/A	33	N/A	6
Perennial Stream 20 (Kayaderosseras Creek)	Wetland 36D/36E	Kayaderosseras Creek	C	99	N/A	2,960	N/A	6	

**Table II
Stream Impact Summary Table**

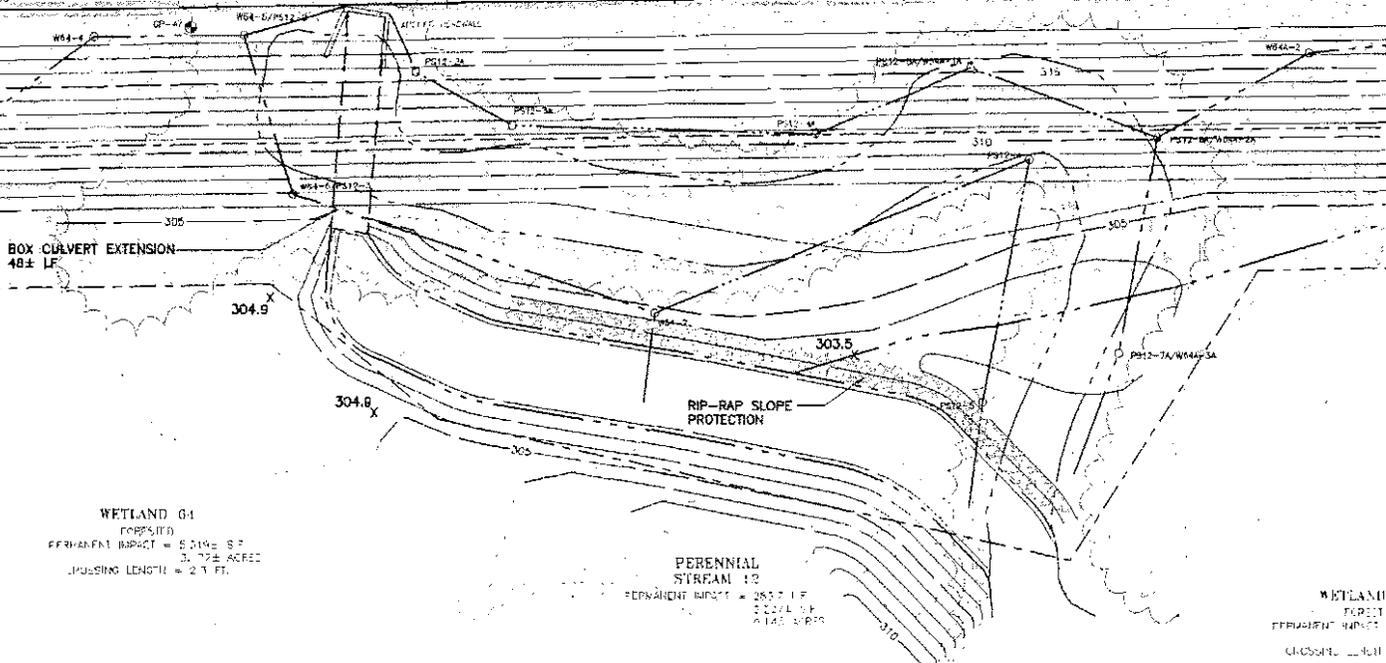
Section of Proposed Water Line Route (Listed from North to South)	Stream Number	Associated Wetland	Watershed	NYSDEC Stream Classification ^{1,2}	Length of Stream Crossing (ft.) ^{3,4}	Area of Perm. Impact (sq. ft.)	Area of Temp. Impact (sq. ft.)	Linear Footage of Permanent Stream Impact (ft.) ⁵	Contract
Malta Ave. to East High Street	Intermittent Stream 9	Wetland 33	Mourning Kill	D	Not Crossed	N/A	9	N/A	7
	Intermittent Stream 10	Wetlands 35 and 35A	Mourning Kill	D	3	N/A	72	N/A	7
East High Street to East Line Road	Intermittent Stream 7	N/A	Mourning Kill	D	10	1,555	N/A	134	7
	Intermittent Stream 8	Wetland 27	Mourning Kill	D	Not Crossed	N/A	22	N/A	7
	Intermittent Stream 5C	Wetlands 25 and 28	Mourning Kill	D	Not Crossed	N/A	31	N/A	7
	Perennial Stream 4 (Mourning Kill)	N/A	Mourning Kill	C	28	N/A	834	N/A	7
	Intermittent Stream 2	Wetland 8	Ballston Creek	D	Not Crossed	N/A	32	N/A	7
East Line Road to 500' east of I-87 Intersection	Perennial Stream 2 (Ballston Creek)	Wetlands 17 and 19	Ballston Creek	C	Not Crossed	N/A	180	N/A	7
	Ephemeral Stream 7/7A	N/A	Ballston Creek	D	Not Crossed	N/A	4	N/A	7
	Intermittent Stream 6	N/A	Ballston Creek	D	Not Crossed	N/A	42	N/A	7
	Intermittent Stream 4	N/A	Ballston Creek	D	1	N/A	57	N/A	7
	Intermittent Stream 1	N/A	Ballston Creek	D	Not Crossed	N/A	284	N/A	7
	Ephemeral Stream 1	Wetland 6	Ballston Creek	D	Not Crossed	N/A	47	N/A	7
	Perennial Stream 1	N/A	Ballston Creek	C	Not Crossed	N/A	1,045	N/A	7

Table Notes:

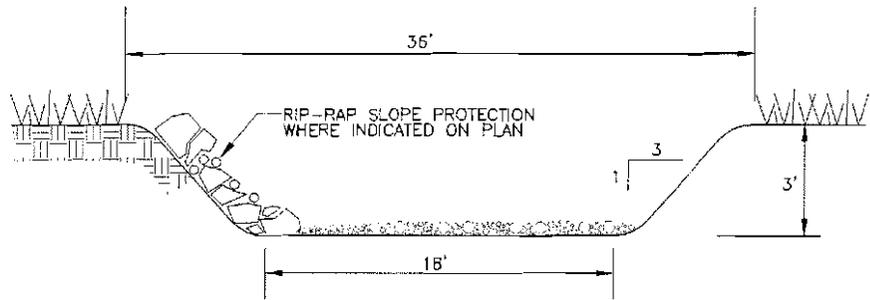
1. According to the New York State Codes, Rules and Regulations (NYCRR), all streams which are not shown on the reference map are assigned to Class D except for continuous (flowing natural streams, which have the same classification and standards as the waters to which it is directly tributary (6 NYCRR Chapter X Part 940.2).
2. Streams with a classification of (I) or (TS) may support a trout population or trout spawning. The NYSDEC generally requires that work within these streams be conducted between June 1st and October 1st.
3. Length of stream crossing was calculated where the centerline of the transmission main crosses the stream, except where otherwise noted. Streams that are listed as "not crossed" are not being crossed by the centerline of the pipe however they are being temporarily or permanently impacted by construction activities within the transmission main corridor.
4. Streams that are listed as having "no impact" are either outside of the transmission main corridor or cross the corridor through an existing culvert and therefore will not be impacted by construction.
5. The linear footage of permanent stream impact refers to the length of stream channel that will be permanently impacted by either culverting or filling.

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2000 DTL4 (STBL) 11-9



1 PLAN
SCALE: 1" = 40'
CROSS REFERENCE:

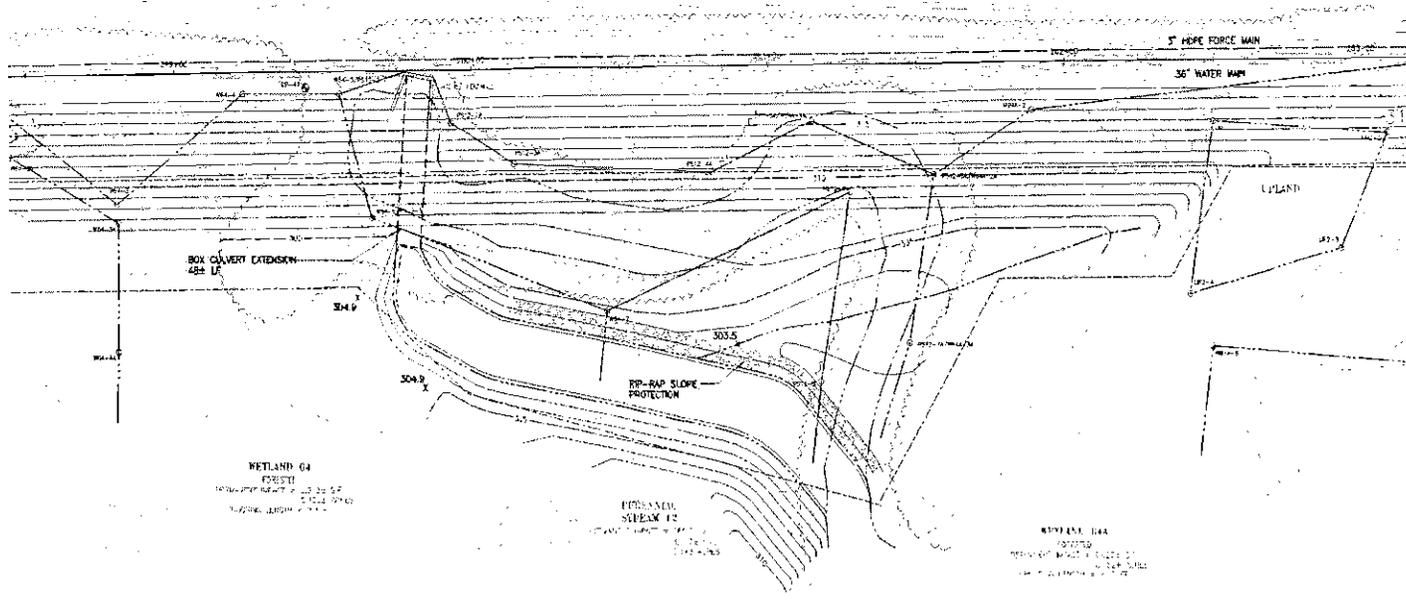


- NOTES:**
1. AT LEAST 6 INCHES OF NATIVE STONE SHALL BE PLACED IN THE RELOCATED STREAM BED.
 2. DISTURBED AREAS SHALL BE SEEDED WITH AN APPROPRIATE EROSION CONTROL SEED MIX FOLLOWING CONSTRUCTION. THE STREAM CORRIDOR WILL BE ALLOWED TO FULLY REVEGETATE SINCE IT IS LOCATED OUTSIDE OF THE MAINTAINED PERMANENT EASEMENT.

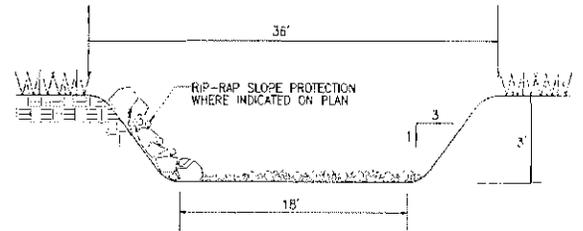
2 TYPICAL STREAM RELOCATION CROSS SECTION
SCALE: NONE
CROSS REFERENCE:

CAD DWG. FILE NAME: DTL4.DWG

Date		RECORD OF WORK	Appr.	STREAM RELOCATION - PS 12 PLANS/DETAILS	
Drafter: KSJ		Checker: TJH		C.T. MALE ASSOCIATES, P.C. 50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110 518.786.7400 * FAX 518.786.7299 Architecture & Building Systems Engineering * Civil Engineering Environmental Services * Survey & Land Information Services	
Appr. by: KSJ		Proj. No. 04.9597			



1 PLAN
 SCALE 1" = 20'
 CROSS REFERENCE:



2 TYPICAL STREAM RELOCATION CROSS SECTION
 SCALE: NONE
 CROSS REFERENCE:

- NOTES:
- AT LEAST 6 INCHES OF NATIVE STONE SHALL BE PLACED IN THE RELOCATED STREAM BED.
 - DISTURBED AREAS SHALL BE SEEDED WITH AN APPROPRIATE EROSION CONTROL SEED MIX FOLLOWING CONSTRUCTION. THE STREAM CORRIDOR WILL BE ALLOWED TO FULLY REVEGETATE SINCE IT IS LOCATED OUTSIDE OF THE MAINTAINED PERMANENT EASEMENT.

Sheet 17 of 22

DATE	REVISIONS RECORD/DESCRIPTION	DRAWN	CHECK	APPROV.	UNAUTHORIZED ALTERATION OF ANY PORTION OF THIS DOCUMENT IS A VIOLATION OF FEDERAL, STATE & COUNTY LAWS.

STREAM RELOCATION - PS 12
PLAN/DETAILS

WATER TREATMENT AND TRANSMISSION FACILITIES PROJECT
CONTRACT NO. 3

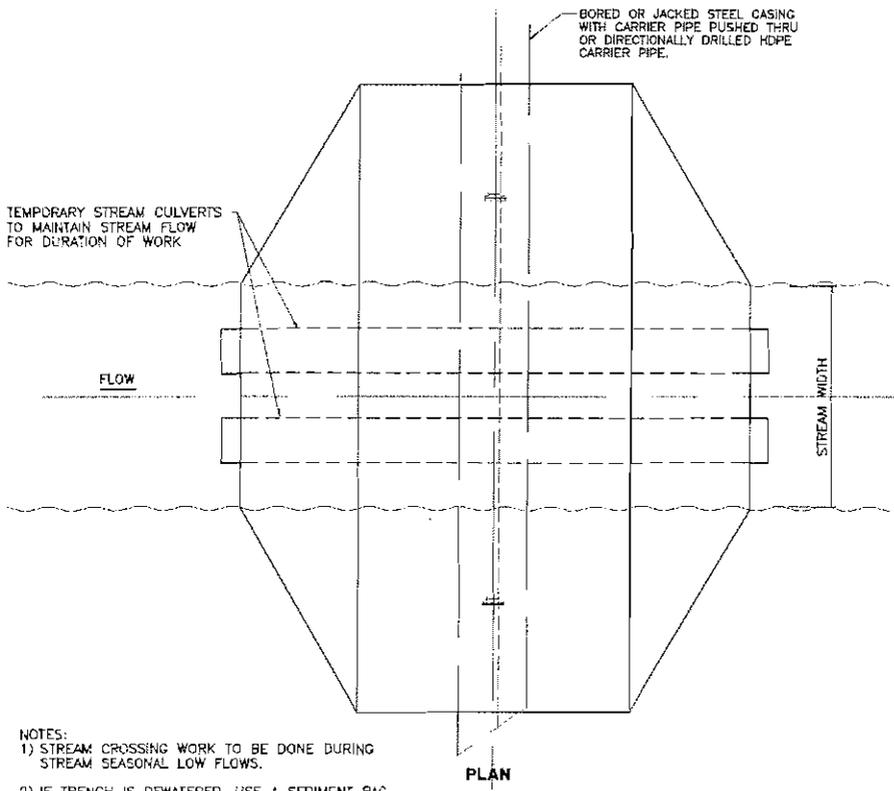
SARATOGA COUNTY, NY

© 2005 C.T. MALE ASSOCIATES, P.C. DESIGNED: RESJ DRAFTED: RESJ CHECKED: ELY PROJ. NO. (4) 3557 SCALE: AS SHOWN DATE: 2005	C.T. MALE ASSOCIATES, P.C. 50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110 518.786.7441 • FAX 518.786.7249 ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING ENVIRONMENTAL SERVICES • PLUMBING & LAND REDEVELOPMENT SERVICES	DLT4 SHEET 32 OF 38 DWG. NO. 05-203
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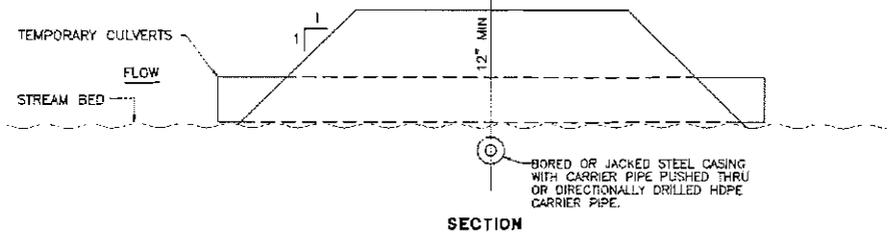
C.T. MALE ASSOCIATES, P.C. 05-203

NO XREFS

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- NOTES:
- 1) STREAM CROSSING WORK TO BE DONE DURING STREAM SEASONAL LOW FLOWS.
 - 2) IF TRENCH IS DEWATERED, USE A SEDIMENT BAG AND PUMP INTO WELL VEGETATED UPLAND AREA.
 - 3) AFTER NEW MAIN INSTALLATION REMOVE CULVERTS AND EMBANKMENT AND RESTORE STREAM BED TO EXISTING CONDITION.
 - 4) FOLLOW ALL CONDITIONS OF DEC STREAM CROSSING PERMIT.

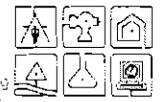


1 PIPE FLUME STREAM CROSSING DETAIL
 ECDZ SCALE: NONE
 CROSS REFERENCE: NONE

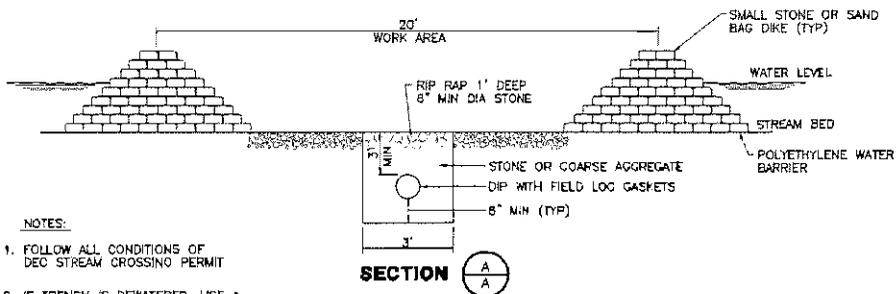
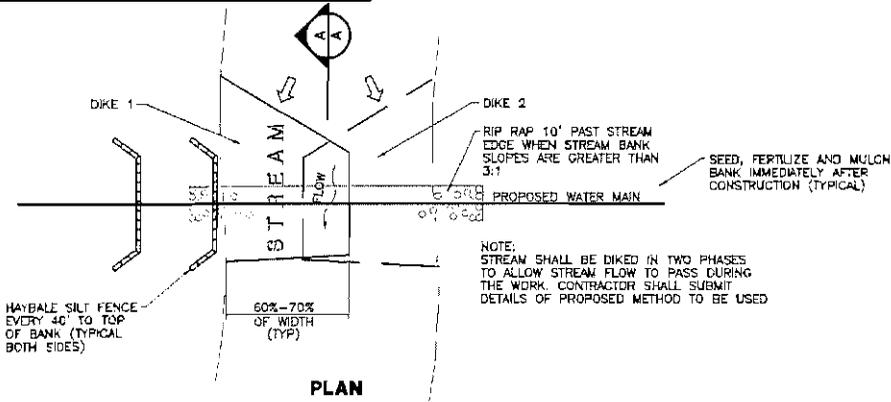
Sheet 18 of 22

CAD DWG. FILE NAME:

Date	RECORD OF WORK	Appr.	EROSION CONTROL DETAILS SHEET 1 OF 3	
			SARATOGA COUNTY, NY	
Drafter: KSJ Checker: ELV			C.T. MALE ASSOCIATES, P.C. 50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110 518.786.7400 * FAX 518.786.7299	
Appr. by: KLC Proj. No. 04.9597			Architecture & Building Systems Engineering * Civil Engineering Environmental Services * Survey & Land Information Services	
			SCALE: AS SHOWN	DATE: 2005



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- NOTES:
- FOLLOW ALL CONDITIONS OF DEC STREAM CROSSING PERMIT
 - IF TRENCH IS DEWATERED, USE A SEDIMENT BAG AND PUMP INTO WELL VEGETATED UPLAND AREA

SLOPE BREAKER NOTES:

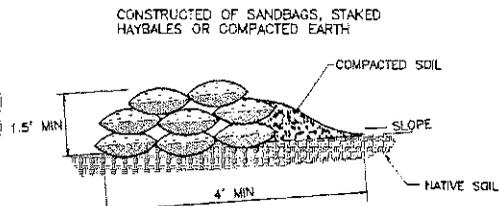
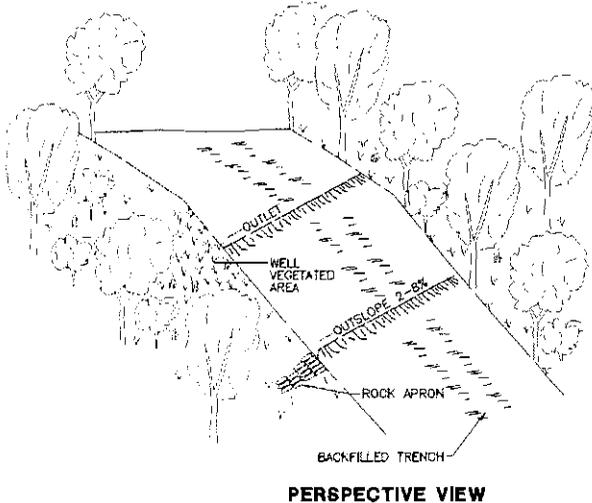
- SLOPE BREAKERS SHALL BE CONSTRUCTED WITH 2 TO 8 PERCENT OUTSLOPE.
- SLOPE BREAKERS SHALL BE OUTLETED TO WELL VEGETATED STABLE AREAS OR ROCK APRON.
- THE RECOMMENDED SPACING FOR SLOPE BREAKER INSTALLATION IS:

% SLOPE	SPACING (FT)
5-15	300
15-30	200
>30	100

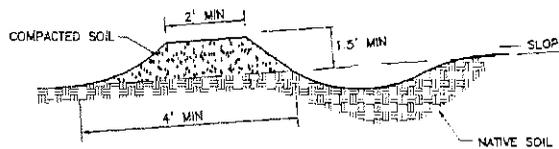
- MAINTAIN TEMPORARY SLOPE BREAKERS UNTIL REPLACED BY PERMANENT SLOPE BREAKERS ONCE PIPELINE INSTALLATION IS COMPLETE

3 COFFER DAM STREAM CROSSING DETAIL

SCALE: NONE
GROSS REFERENCE: NONE



TEMPORARY SLOPE BREAKER ELEVATION VIEW



PERMANENT SLOPE BREAKER ELEVATION VIEW

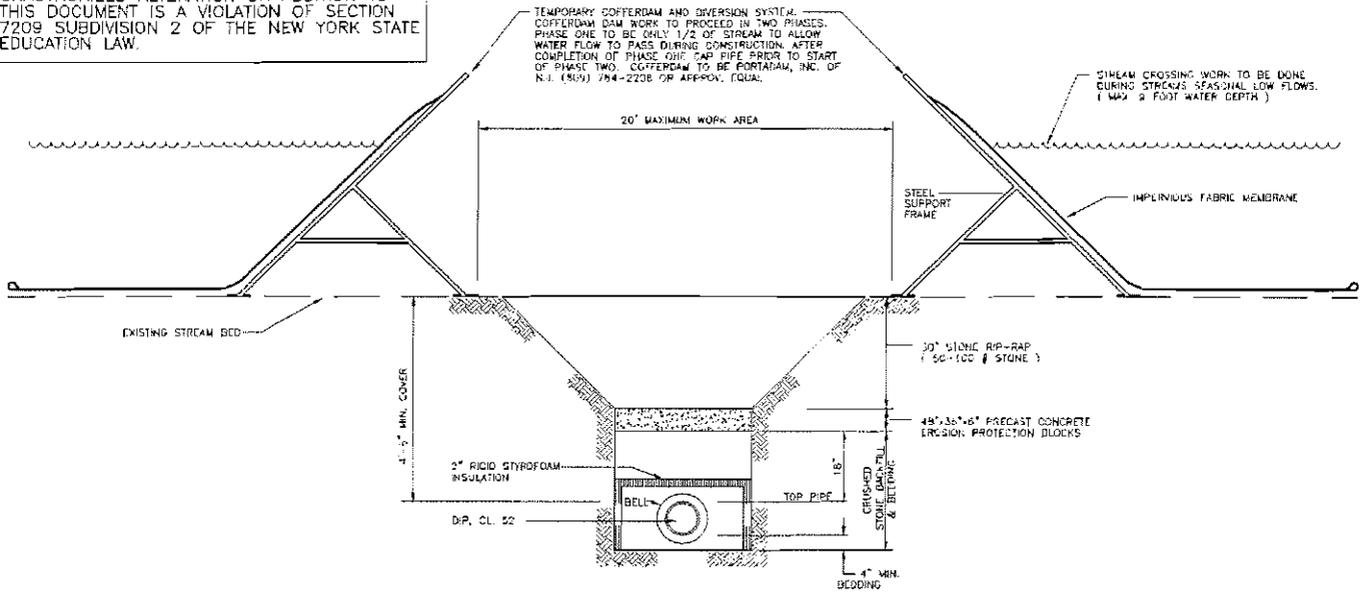
2 TEMPORARY OR PERMANENT SLOPE BREAKER

SCALE: NONE
GROSS REFERENCE: NONE

Date	RECORD OF WORK	Appr.	EROSION CONTROL DETAILS SHEET 2 OF 3
SARATOGA COUNTY, NY			C.T. MALE ASSOCIATES, P.C. 50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110 518.786.7400 * FAX 518.786.7299
Drafter: KSJ Checker: ELV			
Appr. by: KLC Proj. No. 04.9597			Architecture & Building Systems Engineering * Civil Engineering Environmental Services * Survey & Land Information Services
SCALE: AS SHOWN		DATE: 2005	

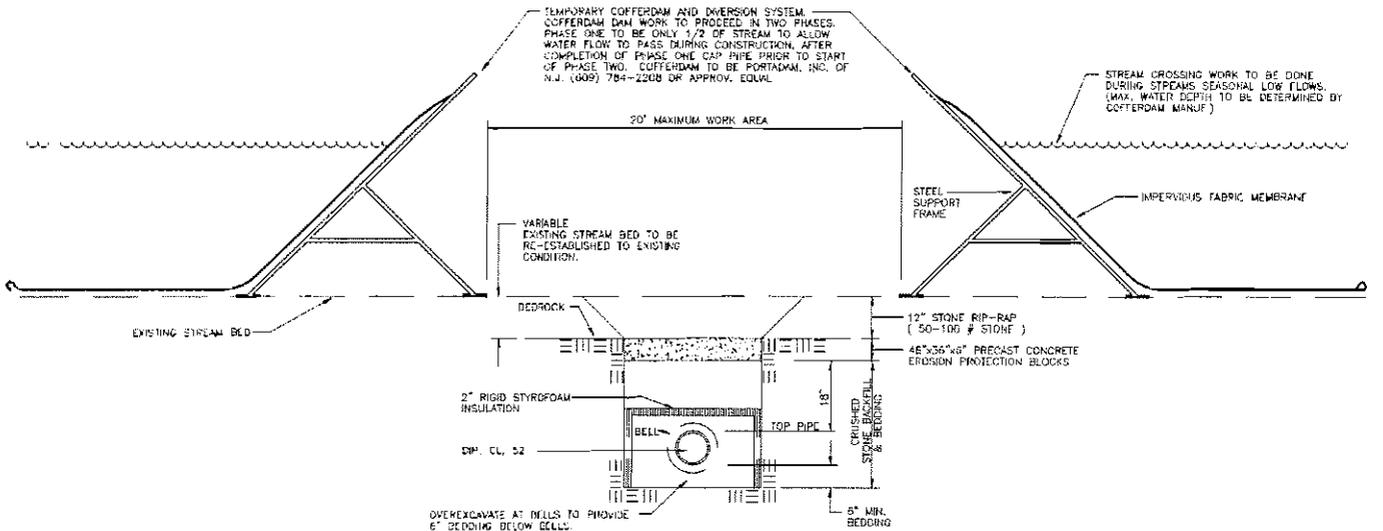
10/7/05

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4 KAYADEROSSERAS CROSSING DETAIL
 SCALE: NONE
 CROSS REFERENCE: NONE

GENERAL STREAM CROSSING NOTE.
 THE KAYADEROSSERAS SHALL BE CROSSED USING THE TEMPORARY COFFERDAM AND DIVERSION METHODS AS SHOWN IN DETAILS 4/ECD2 AND 5/ECD2. ALL OTHER STREAMS SHALL BE CROSSED USING AN APPROPRIATE METHOD AS DETERMINED BY THE CONTRACTOR, AND APPROVED BY THE ENGINEER, BASED UPON STREAM FLOW AT THE TIME OF CONSTRUCTION. THESE METHODS SHALL INCLUDE PIPE FLUME CROSSING (DETAIL 1/ECD2), COFFERDAM (DETAIL 3/ECD2), OR COFFER DAM WITH STREAM FLOW BY-PASS PUMPED AROUND THE WORK AREA.

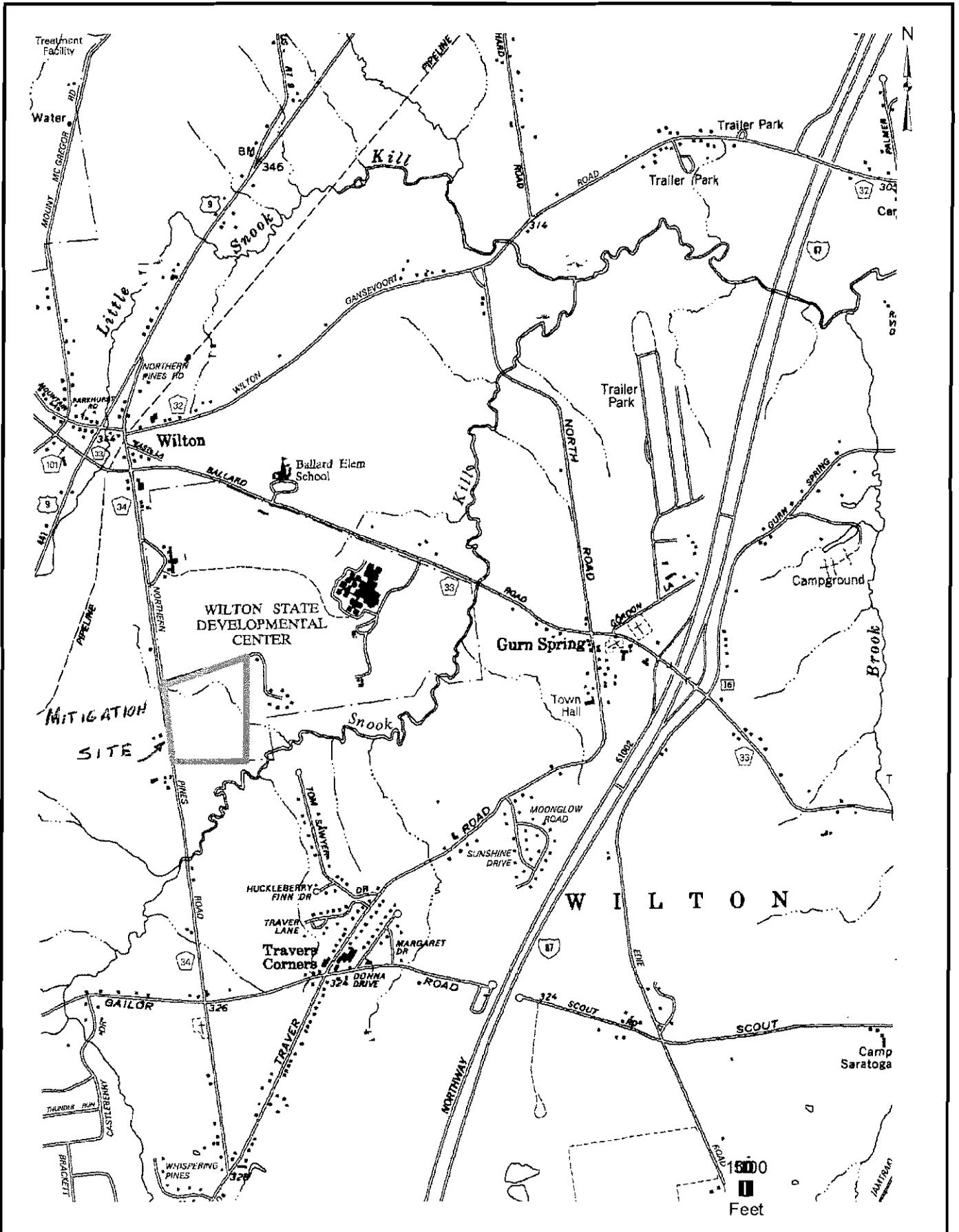


5 KAYADEROSSERAS CROSSING DETAIL WITH BED ROCK EXCAVATION
 SCALE: NOT TO SCALE
 CROSS REFERENCE:

Sheet 20 of 22

CAD DWG. FILE NAME:

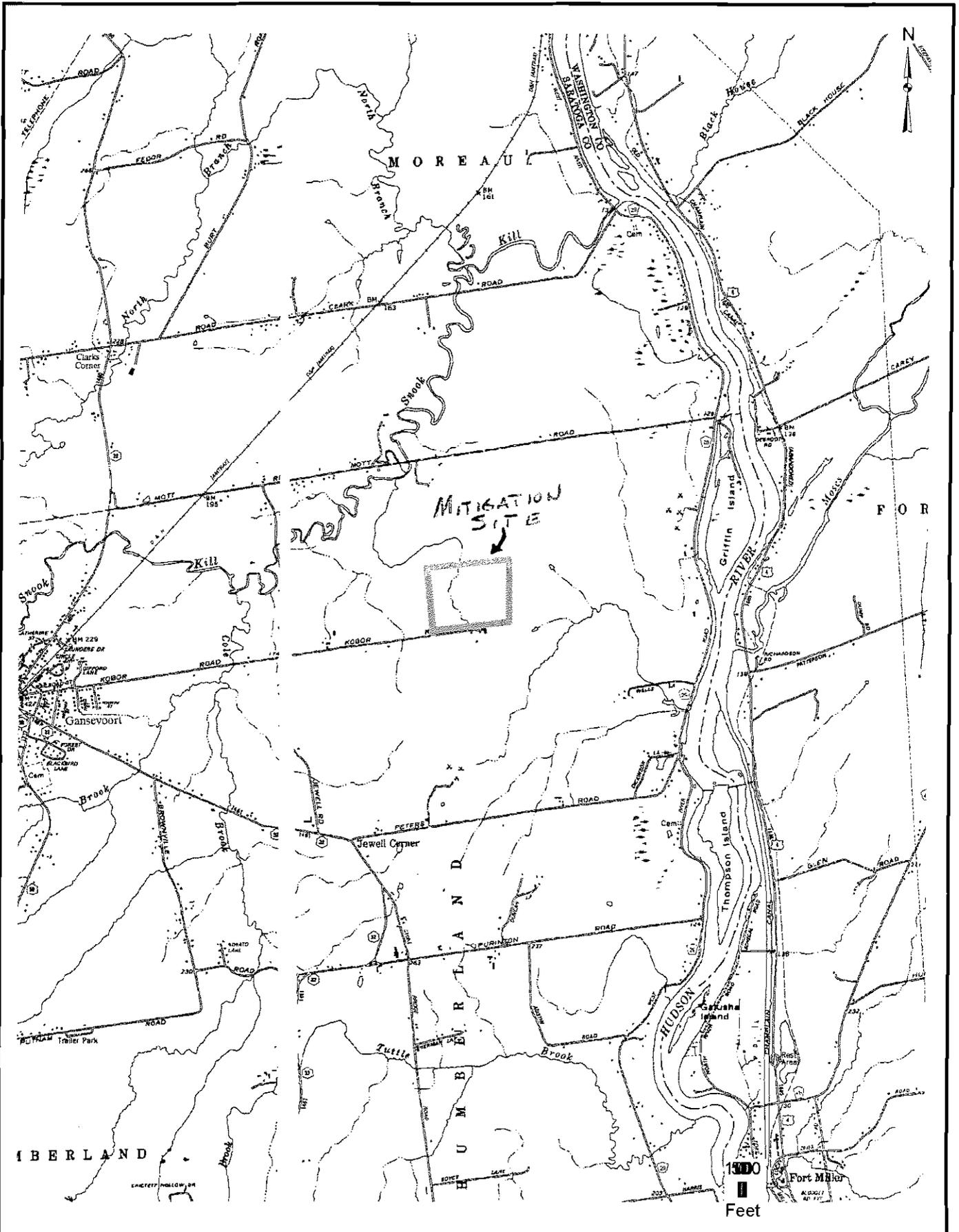
Date	RECORD OF WORK	Appr.	EROSION CONTROL DETAILS SHEET 3 OF 3
Saratoga County, NY			C.T. MALE ASSOCIATES, P.C. 50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110 518.786.7400 * FAX 518.786.7299
Drafted: KSJ Checked: ELV			
Appr. by: KLC Proj. No. J4.9597			Architecture & Building Systems Engineering * Civil Engineering Environmental Services * Survey & Land Information Services
SCALE: AS SHOWN			DATE: 2005



Saratoga Water Treatment and Transmission Facilities Project

Town of Wilton Northern Pines Road Proposed Wetland Mitigation Site

MALCOLM PIRNIE, INC. June 2006



Saratoga Water Treatment
and
Transmission Facilities Project

Town of Northumberland
Kobor Road
Proposed Wetland
Mitigation Site

MALCOLM PIRNIE, INC.

June 2006