



**US Army Corps
of Engineers**®
New England District

PUBLIC NOTICE

696 Virginia Road
Concord, MA 01742-2751

Date: January 2, 2008
Comment Period Ends: February 4, 2008
File Number: NAE-2007-2707
In Reply Refer To: Cori M. Rose
Or by e-mail: cori.m.rose@usace.army.mil

The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below. The Corps is soliciting comments on both the project itself and the range of issues to be addressed in the environmental documentation.

APPLICANT: Town of Wallingford Department of Public Utilities, 377 South Cherry Street, P.O. Box 725, Wallingford, Connecticut 06492.

ACTIVITY: Discharge of temporary fill and/or grading below ordinary high water (1.8 acre area) and in wetlands (0.08 acre area), and the discharge of permanent fill below ordinary high water (0.14 acre area) for the construction of three watercourse bypass channels and multiple haul roads to allow the removal of up to 117,000 cubic yards of silt and sand from the Mackenzie Reservoir Water Supply System. A detailed description and plans of the activity are attached.

PROPOSED COMPENSATORY MITIGATION: In order to compensate or otherwise offset the impact of temporary and permanent fill in wetlands and waters, the applicant proposes to conduct 0.35 acre of wetland rehabilitation within an existing degraded herbaceous wetland by reducing the elevation of the wetland surface between 6 and 12 inches in order to improve seasonal hydrology, and establishing this area as a wet meadow with a periphery of scattered shrubs. Additional mitigation measures proposed include structural fish habitat improvement consisting of five boulder clusters in the West Reservoir.

WATERWAY AND LOCATION OF THE PROPOSED WORK: This work is proposed within the North, East and West Reservoirs of the Mackenzie Reservoir water supply system and waters of Muddy River and Scard Brook. The water supply system area is located at the intersection of Northford Road, Whirlwind Hill Road and Scard Road in Wallingford, Connecticut. The proposed location can be found on the USGS Wallingford quadrangle sheet at UTM coordinates 18 4590066 N and 685806 E.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
 Section 404 of the Clean Water Act
 Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact 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 may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered,

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FILE NO. NAE-2007-1702

including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production 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 the 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.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also 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/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s)

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the proposed project site during the construction and subsequent operation/use period sought by the applicant. We have undertaken a Biological Assessment (BA) of the potential for interactions and adverse impacts to those listed species. It is our determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our BA determination.

The States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved **Coastal Zone Management Programs**. Where applicable the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management

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Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Ms. Cori M. Rose at (978) 318-8306 (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

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

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



Diane M. Ray
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____

PROPOSED WORK AND PURPOSE: The applicant proposes to perform maintenance sediment removal from the 53.8 acre Mackenzie Reservoir constructed in 1943 and that is currently used by the Town of Wallingford for supply of public drinking water. In order to accomplish the proposed project, the water level of the reservoir system will be drawn down from an elevation of 195 feet National Geodetic Vertical Datum (NGVD) to 183 feet NGVD, exposing approximately 33.75 acres of lake bottom. Approximately 12 feet of water will remain over a 20 acre area within the western lobe of the reservoir with a storage volume of 27 million gallons. Partial dewatering will allow the excavation activities to occur “in the dry” and still allow adequate short term water supply.

Approximately 1.08 acre of temporary fill and/or grading will occur below ordinary high water (OHW). This work is for the construction of three temporary watercourse diversion bypass channels and earthen berms along the edge of the reservoir to facilitate the unrestricted passage of the two-year frequency flow. These temporary bypass channels will convey the flows that enter the water supply system from the unnamed tributary to the North Reservoir, Scard Brook and the Muddy River. A total of 0.86 acre of fill will be placed for construction of haul roads and the installation of two culverts. These roads will facilitate the excavation and removal of 117,000 cy of accumulated sediment, mainly from the east and north lobes of the reservoir. A portion of the haul road will remain after construction resulting in the permanent discharge of fill over a 0.14 acre area. The excavated material will be dewatered in place and then stockpiled offsite in an upland agricultural area before removal and permanent disposal at an approved upland location.

The applicant proposes to utilize a variety of stormwater management measures and sediment and erosion controls such as dewatering sumps and erosion and sediment barriers during construction and operation of the temporary bypass channels and during the excavation activity. Water that enters the dewatered portion of the reservoir is proposed to undergo filtering prior to discharge into the bypass channels. A Flood Contingency Plan has been prepared and the proposed activity is required to obtain a General Permit for the Discharge of Stormwater and Dewatering Wastewaters from the Connecticut Department of Environmental Protection.

The objective of the proposed activity is to deepen the reservoir bottom (the North Reservoir will be deepened by 4 feet for a post-construction depth of 7 feet and the East Reservoir will be deepened by 6 feet for a post-construction depth of 11 feet) and remove excessive aquatic vegetation, thereby improving the water quality and preventing the migration of sediment from the north and east reservoir to the western reservoir and restoring the as-built storage capacity of the drinking water supply system.

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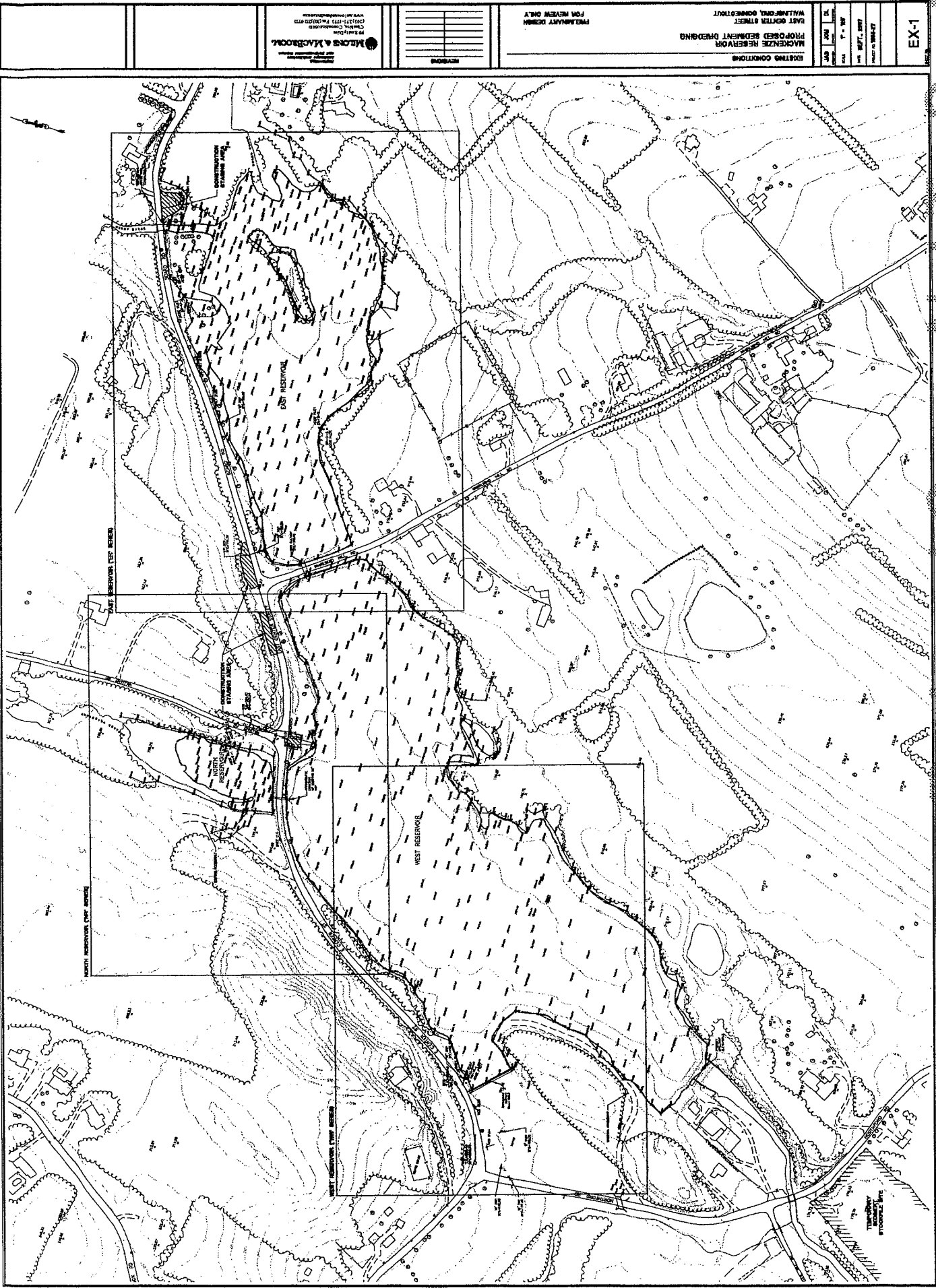
EX-1

EXISTING CONDITIONS
MACKENZIE RESERVOIR
PROPOSED REBENT DREDGING
PART CENTER STREET
WALTON ROAD CONNECTION

PRELIMINARY DESIGN
FOR REVIEW ONLY

MILORNS & MACDONALD
Professional Engineers
1000-100 Avenue
Edmonton, Alberta T6C 1E7
Phone: (780) 443-1111
Fax: (780) 443-1112
www.milornsmacdonald.com

NO.	REVISION



DATE: 2014-07-17

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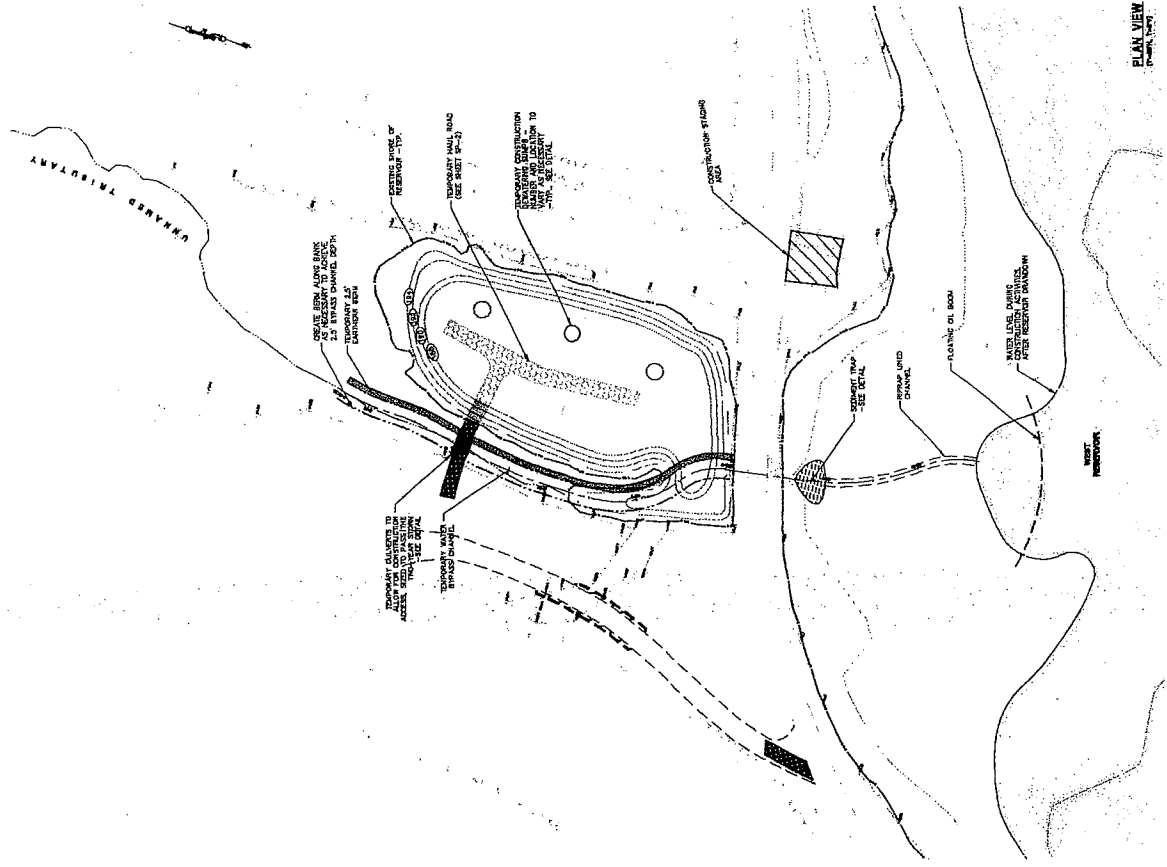
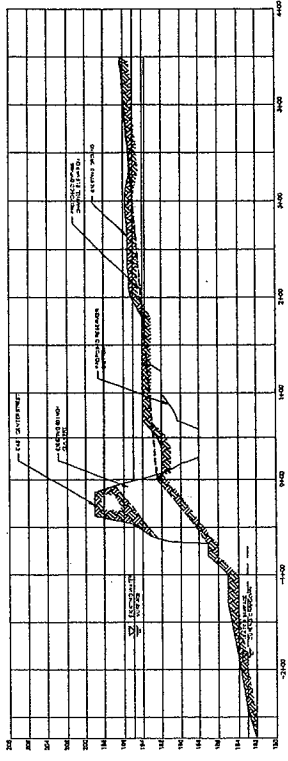
NR-1

WATER CONTROL PLAN - NORTH RESERVOIR
 MAONIZZE RESERVOIR
 PROPOSED SEDIMENT DREDGING
 PALMBAVY DESIGN
 FOR REVIEW ONLY

Morgan & MacBroom
 Consulting Engineers
 1000 West 10th Street
 Vancouver, B.C. V6H 2G6
 (604) 271-1111 (604) 271-1112
 Fax: (604) 271-1113

REFERENCES

- NOTE: SANDWICH BEDS.
1. USE THIS PLAN FOR CONSTRUCTION CHECKS AND MONITORING.
 2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROPOSED WATER CONTROL PLAN AND THE PROPOSED SEDIMENT DREDGING PLAN.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 4. THIS PLAN IS A PRELIMINARY DESIGN AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



DATE: 2024-10-27

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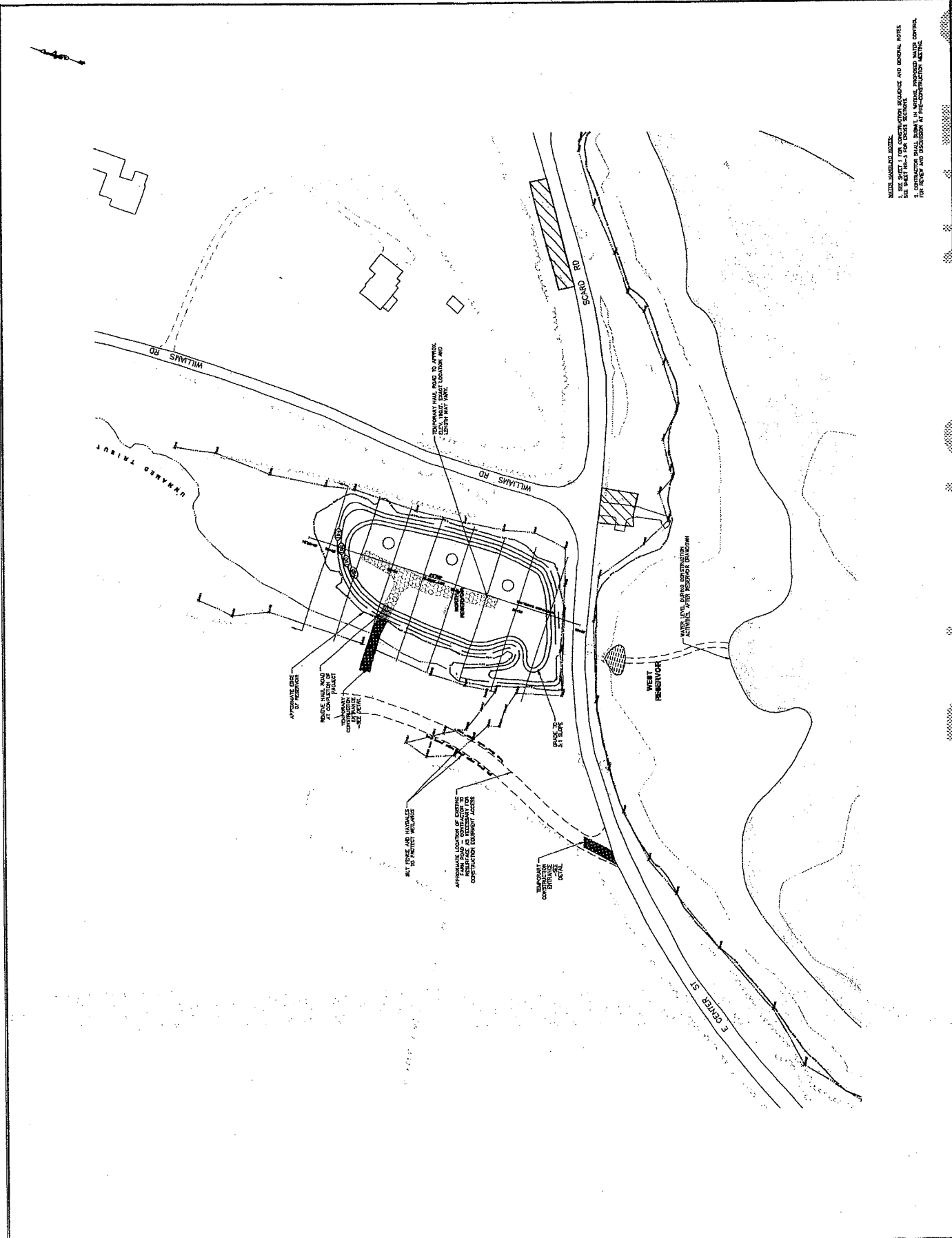
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SEE SHEET 2 FOR DETAILED NOTES.
FOR DETAILS AND CONSTRUCTION METHODS, REFER TO THE APPROPRIATE SHEETS.
FOR NOTES AND SPECIFICATIONS, REFER TO THE APPROPRIATE SHEETS.

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20	

PROPOSED DREDGING PLAN - NORTH RESERVOIR
 MAKENZE RESERVOIR
 EAST CENTER STREET
 WALLINGTON, CONNECTICUT
 FOR REVIEW ONLY
 PRELIMINARY DESIGN

Milone & MacBrook
 Civil Engineers
 29 S. Main Street
 Wallington, CT 06495
 Phone: (860) 271-1111
 Fax: (860) 271-1112
 www.miloneandmacbrook.com

DATE	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20	



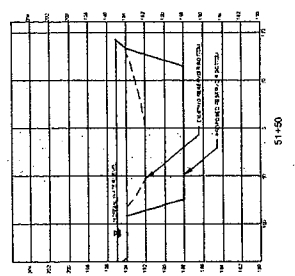
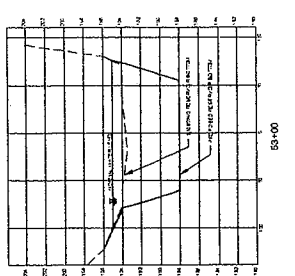
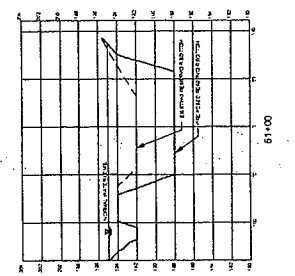
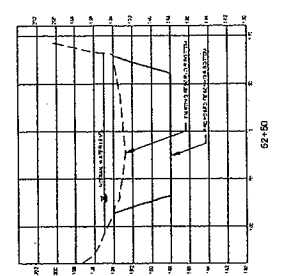
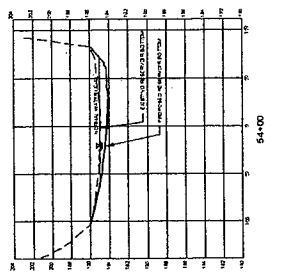
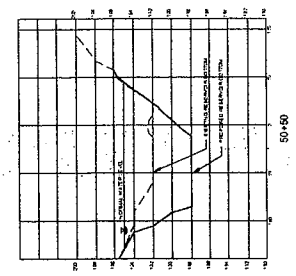
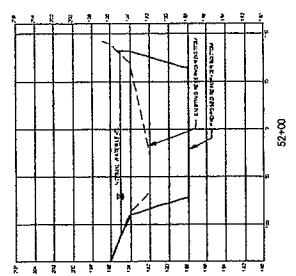
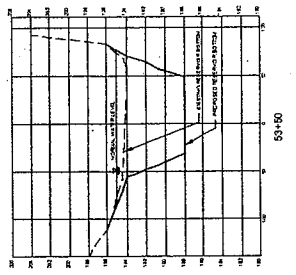
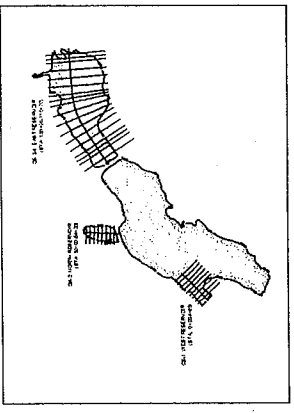
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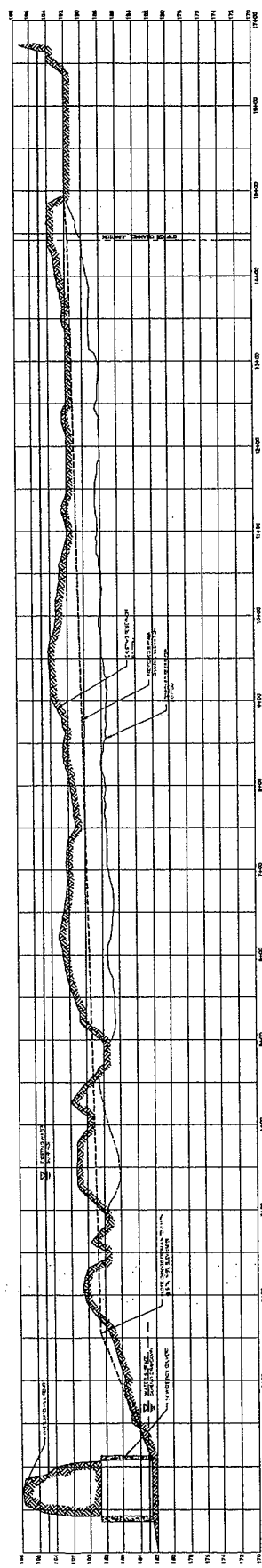
DATE	NOV 19 1987
PROJECT	MACONZIE RESERVOIR
DISTRICT	WATERWAYS
DESIGNER	WALTON, CONNOR & ASSOCIATES
CHECKED	
APPROVED	

MACONZIE RESERVOIR
 PROPOSED SEDIMENT DREDGING
 PRELIMINARY DESIGN
 FOR REVIEW ONLY

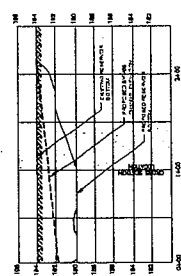
NO.	DATE	REVISION

WALTON & MARCHIONNI
 ENGINEERS
 25 Bay Street
 New Haven, Connecticut 06510
 Telephone: (203) 771-1777 Fax: (203) 771-1778
 WWW: www.waltonmarchionni.com

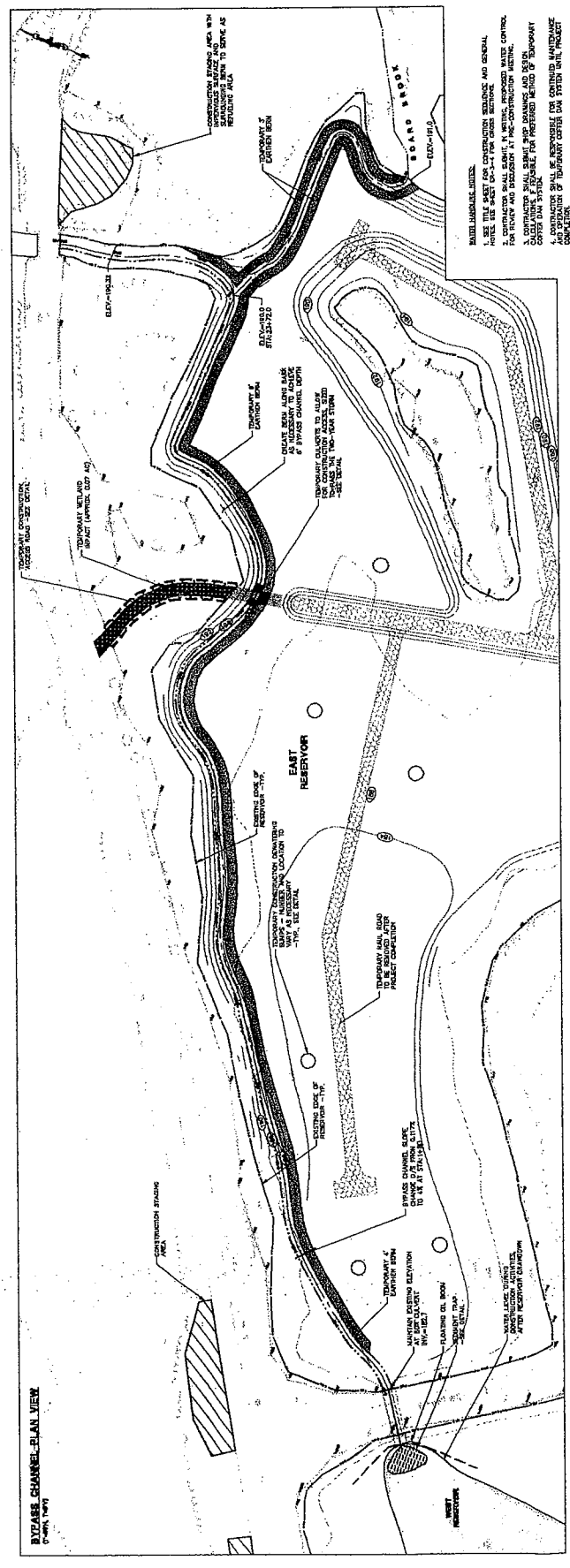




BYDARR CHANNEL PROFILE (SECTION #2)



BYDARR CHANNEL PROFILE (SECTION #1)



BYDARR CHANNEL-PLAN VIEW

NOTE: CONTRACTOR SHALL MAINTAIN THE EXISTING CHANNEL BED AND BANKS TO ORIGINAL GRADE AND WIDTH AT ALL TIMES. CONTRACTOR SHALL MAINTAIN THE EXISTING CHANNEL BED AND BANKS TO ORIGINAL GRADE AND WIDTH AT ALL TIMES. CONTRACTOR SHALL MAINTAIN THE EXISTING CHANNEL BED AND BANKS TO ORIGINAL GRADE AND WIDTH AT ALL TIMES.

Kycon & MacBryde
 99 Maple Street
 Shelton, CT 06484
 (203) 221-1773 Fax (203) 273-0773
 www.kyconmacbryde.com

NO.	DESCRIPTION	DATE

PRELIMINARY DESIGN
 FROM MEETING ONLY

WATER CONTROL PLAN - EAST RESERVOIR
 PROPOSED SEDIMENT TRENCHING
 EAST CENTER STREET
 WALLINGTON, CONNECTICUT

DATE	BY	NO.

DATE: 08/17/2017
 PROJECT NO.: 1004-07
 SHEET NO.: 1004-07
 SHEET TOTAL: 1004-07

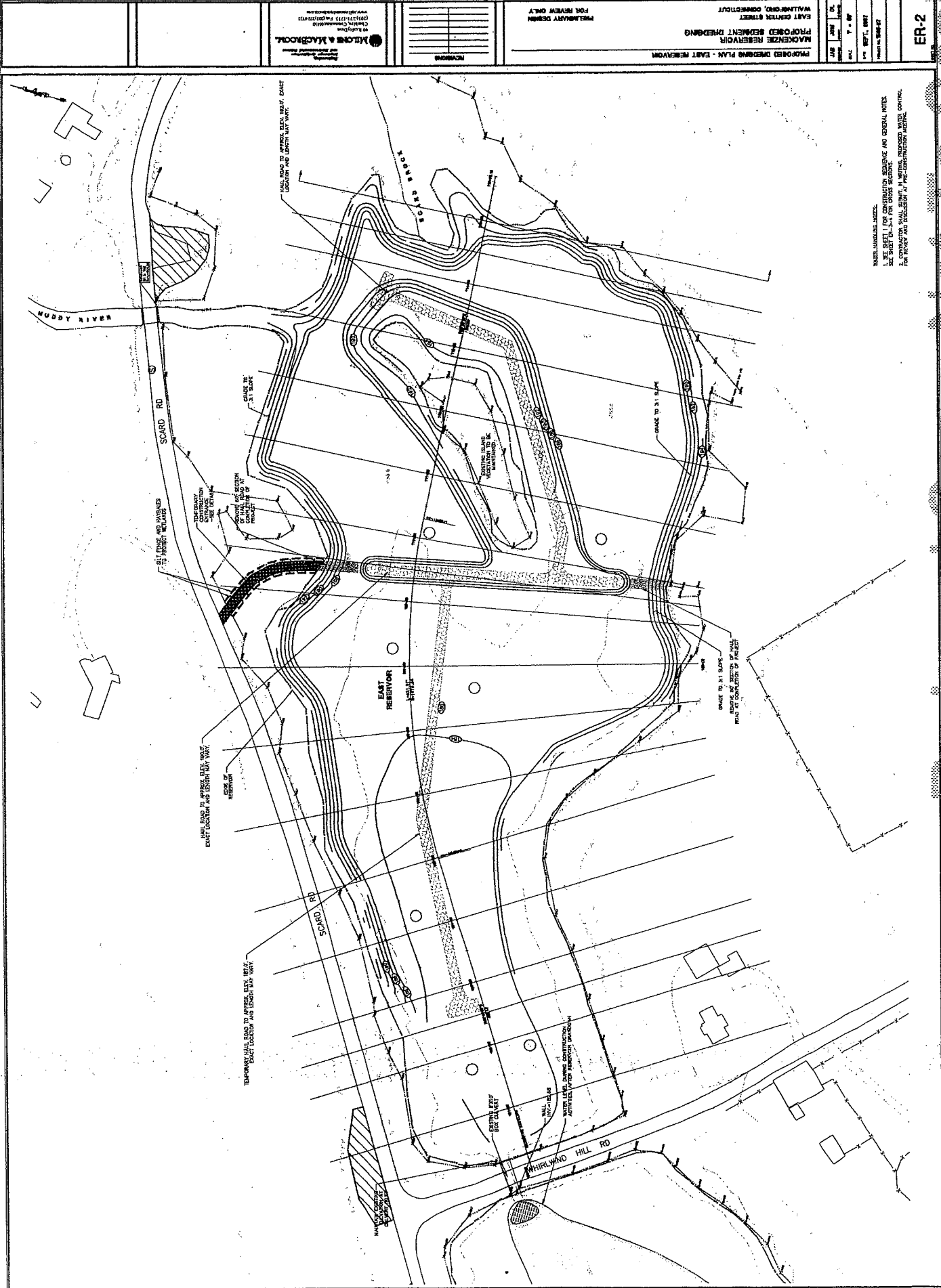
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PROPOSED DRAINAGE PLAN - EAST RESERVOIR
MAJOR ENGINEERING FIRM
PROPOSED SEWAGE TREATMENT PLANT
EAST CENTER STREET
WALLINGFORD, CONNECTICUT

FOR REVIEW ONLY

KLING STUBBINS
1000 WASHINGTON STREET
NEWTON, MASSACHUSETTS
02459-1000
TEL: (617) 552-4000
WWW.KSSTUBBINS.COM

MAJOR ENGINEERING FIRM
PROPOSED SEWAGE TREATMENT PLANT
EAST CENTER STREET
WALLINGFORD, CONNECTICUT



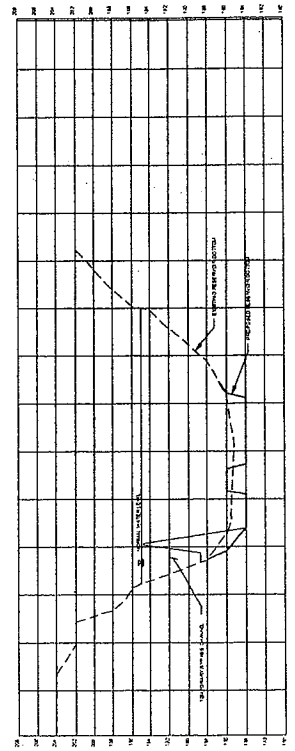
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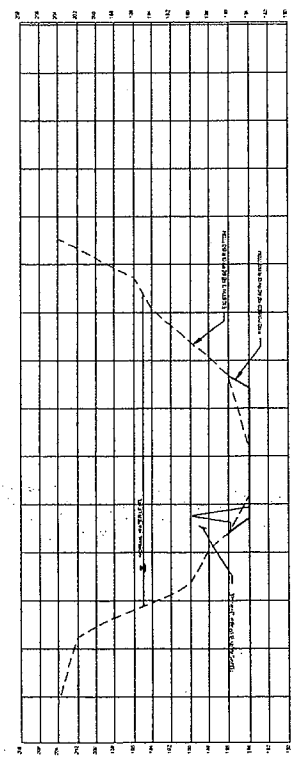
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PROPOSED SEDIMENT DREDGING
EAST CENTER STREET
WALLINGFORD, CONNECTICUT

PRELIMINARY DESIGN
FOR REVIEW ONLY

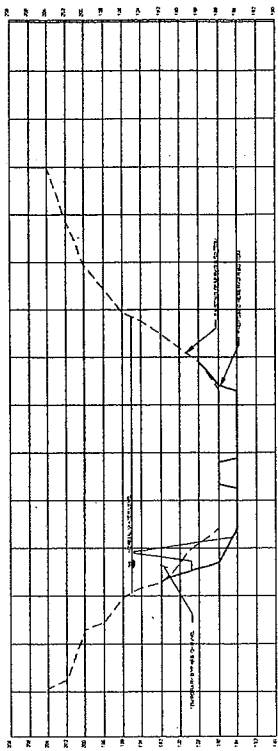
Milone & MacDonald
 24 Kelly Drive
 Shelton, Connecticut 06484
 (203) 271-1777 Fax (203) 271-1773
 www.miloneandmacdonald.com



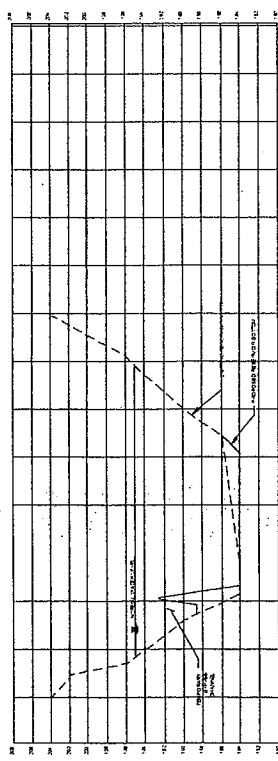
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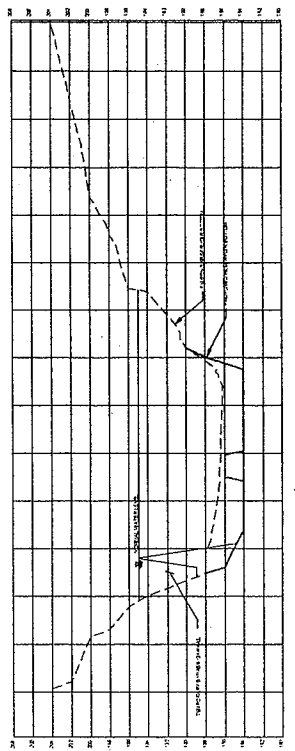
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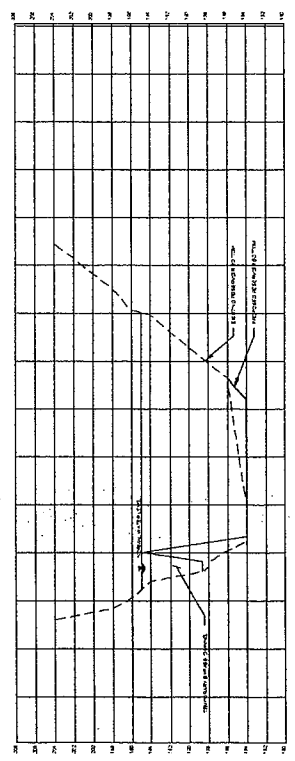
104+00



102+00



105+90



102+50

ER-4

DATE: 08/27/03

PROJECT: JACKSON RESERVOIR

LOCATION: EAST CENTER STREET

SCALE: 1" = 10'-0"

DATE: 08/27/03

PROJECT: JACKSON RESERVOIR

LOCATION: EAST CENTER STREET

SCALE: 1" = 10'-0"

DATE: 08/27/03

PROJECT: JACKSON RESERVOIR

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PROJECT: JACKSON RESERVOIR

LOCATION: EAST CENTER STREET

SCALE: 1" = 10'-0"

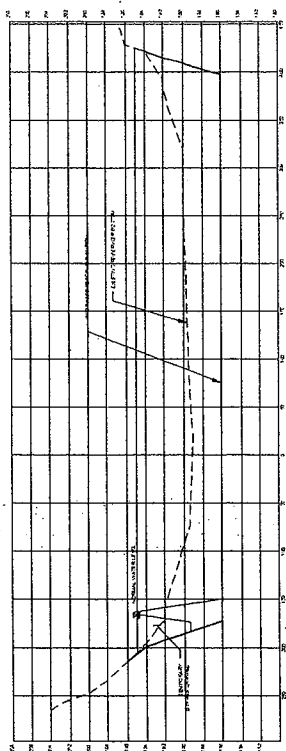
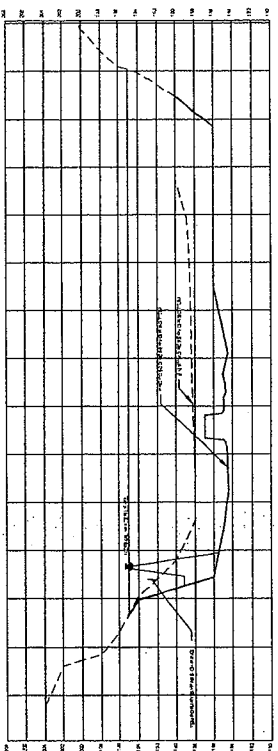
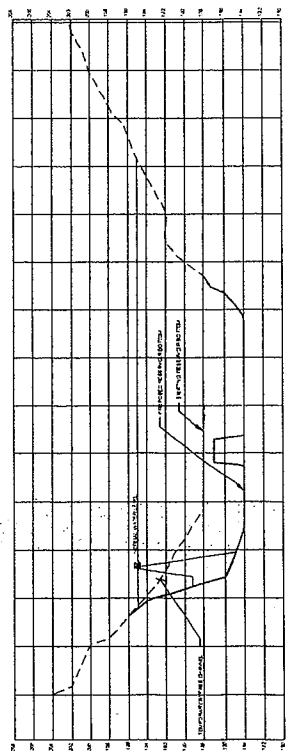
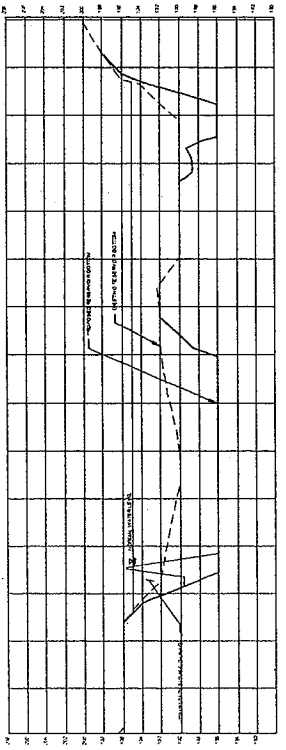
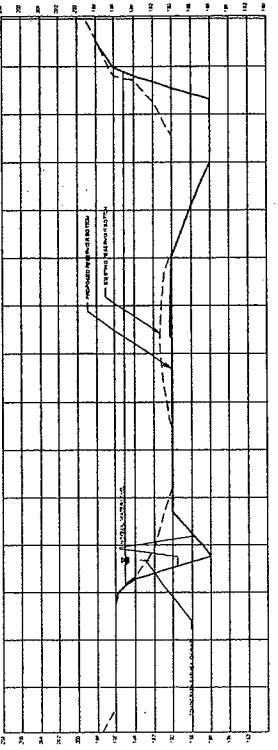
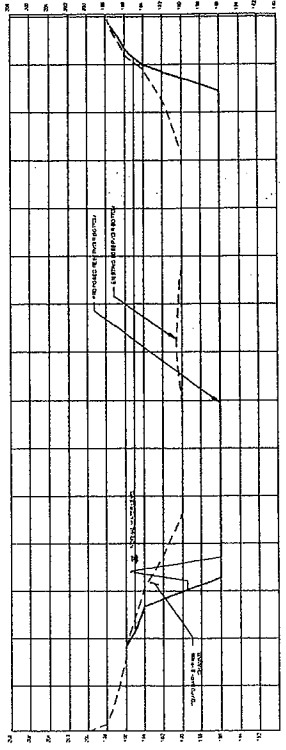
DATE: 08/27/03

PROJECT: JACKSON RESERVOIR

LOCATION: EAST CENTER STREET

SCALE: 1" = 10'-0"

DATE: 08/27/03



MILONE & MADDALA
 ENGINEERS
 2000 W. 10th Street
 Anchorage, Alaska 99503
 (907) 562-1111
 www.miloneandmaddala.com

NO.	DESCRIPTION	DATE

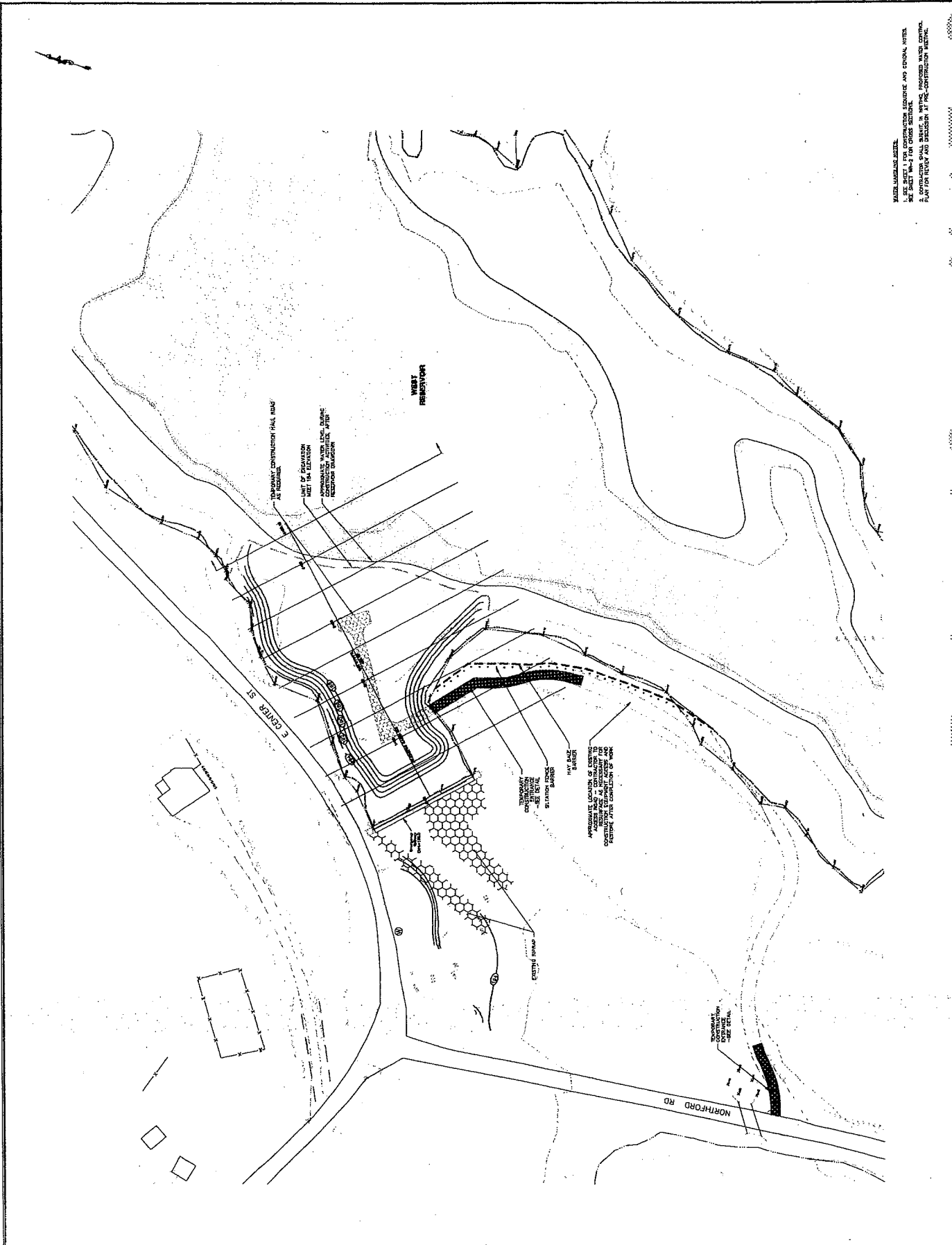
PRELIMINARY DESIGN
 FOR REVIEW ONLY

MAJOR WORKING SHEETS:
1. SEE SHEET 1 FOR CONSTRUCTION DETAILS AND GENERAL NOTES.
2. SEE SHEET 2 FOR DRAINAGE DETAILS.
3. SEE SHEET 3 FOR CONSTRUCTION DETAILS.
4. SEE SHEET 4 FOR CONSTRUCTION DETAILS.

WR-1

PROPOSED DREDGING PLAN - WEST RESERVOIR
MACKENZIE RESERVOIR
PROPOSED SEDIMENT DREDGING
EAST CENTER STREET
WALLENFORD, GONNETT
PRELIMINARY DESIGN
FOR REVIEW ONLY

MILSON & MACBROOM
ENGINEERS
2000 W. 10TH STREET
MILWAUKEE, WI 53233
TEL: 414.224.1111 FAX: 414.224.1112
WWW.MILSONANDMACBROOM.COM



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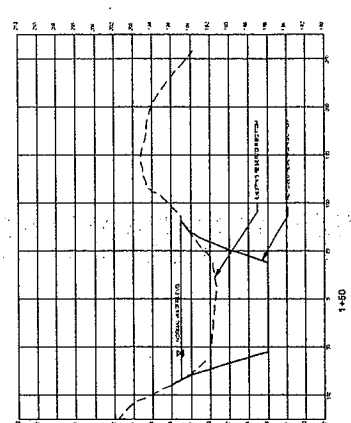
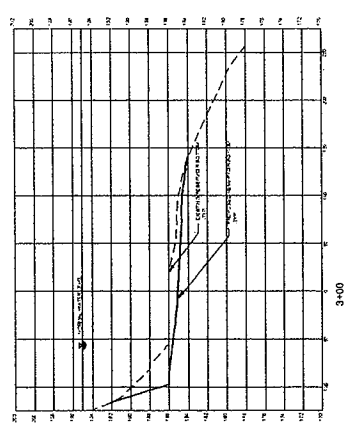
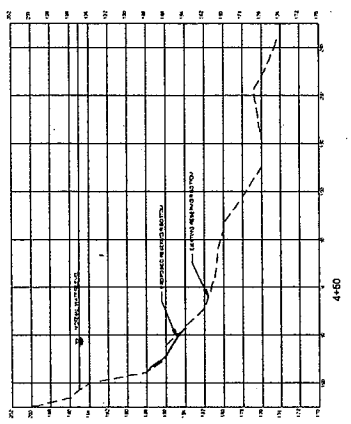
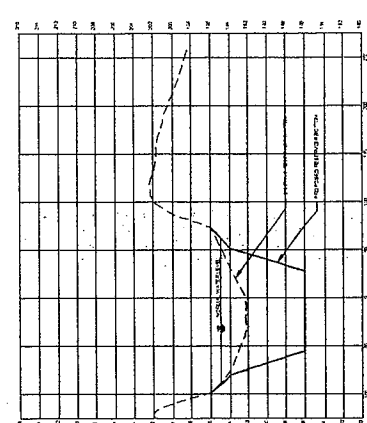
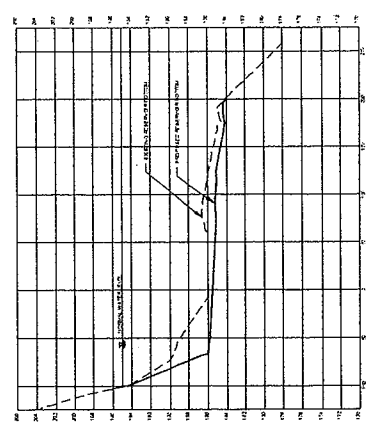
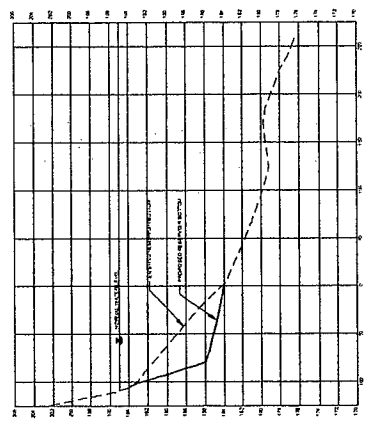
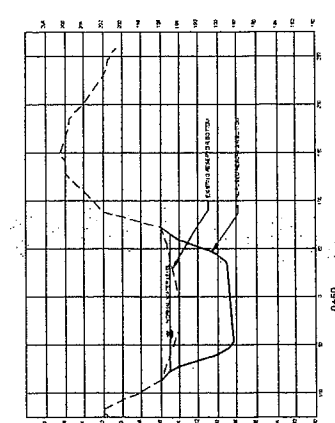
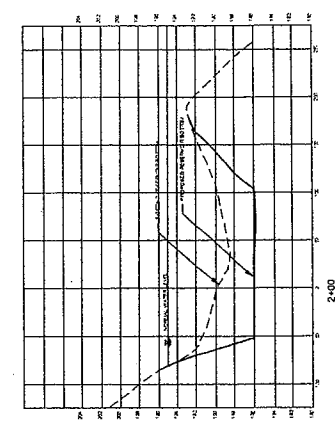
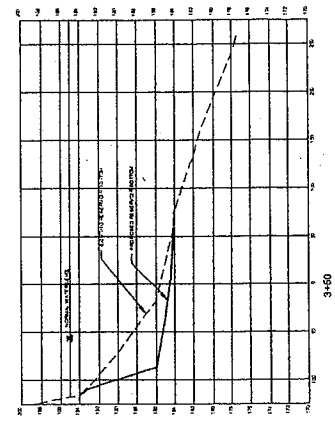
WR-2

DATE: 08/17/07
PROJECT: 03-01-07
SHEET: 03-01-07

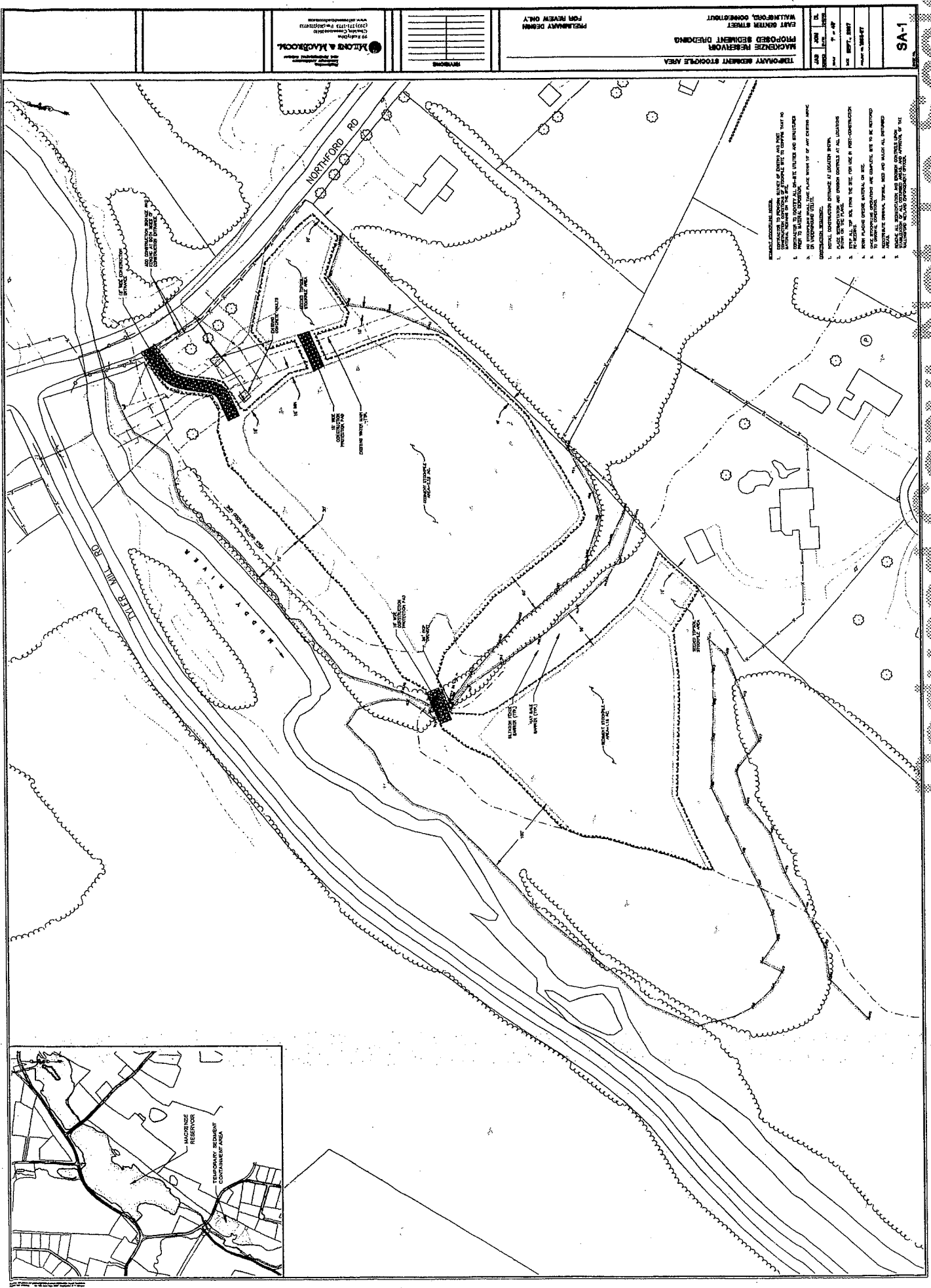
MACENZIE RESERVOIR
PROPOSED SEDIMENT DREDGING
EAST CENTER STREET
WALTON, CONNECTICUT

PRELIMINARY DESIGN
FOR REVIEW ONLY

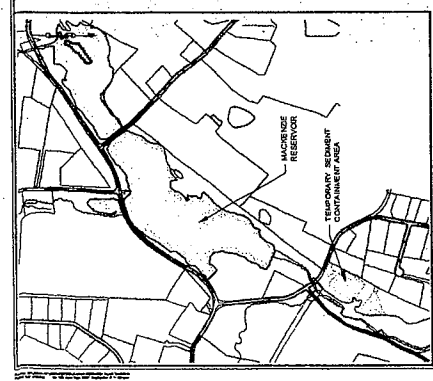
MILONE & MARCHIONI
INCORPORATED
1000 WEST MAIN STREET
MILAN, CONNECTICUT 06455
(860) 439-1177
WWW.MILONEANDMARCHIONI.COM



Reduced Copy: Not to Scale



- REVISIONS:**
1. CORRECTED TO SHOW CONSTRUCTION OF EMBANKMENT AND DRAINAGE AT ALL LOCATIONS.
 2. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.
 3. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.
 4. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.
 5. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.
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 7. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.
 8. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.
 9. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.
 10. ADDED TO SHOW THE LOCATION OF THE TEMPORARY SEDIMENT STORAGE AREA.



McKENZIE & MACKAY
 1000 10th Street
 St. John's, Newfoundland
 A1A 1A1
 Tel: (709) 576-1111
 Fax: (709) 576-1112
 www.mckenzieandmackay.com

NO.	DATE	DESCRIPTION

PRELIMINARY DESIGN
 FOR REVIEW ONLY

TEMPORARY SEDIMENT STORAGE AREA
PROPOSED RESERVOIR DRAINAGE
MACKENZIE RESERVOIR
CONCRETE OUTLET
EAST GARDEN STREET
WALLINGFORD, QUEBEC

SA-1
 DATE: 10/10/2007
 DRAWN BY: J. MACKAY
 CHECKED BY: J. MACKAY
 SCALE: AS SHOWN

EROSION CONTROL AND DETAILS
 MACHINERY DESIGN
 PROPOSED EROSION CONTROL
 EAST GERRIT STREET
 WILMINGTON, DELAWARE
 FROM REVENUE ONLY

DATE	NO.	BY
JAN 1987	1	JAN 1987
PROJECT NO. 80-07		
SHEET NO. 10-1		

M. C. & M. ENGINEERS
 9954-1177 P.O. BOX 1177
 WILMINGTON, DELAWARE 19807

REVISIONS

PERMANENT VEGETATIVE COVER
 GENERAL
 1. VEGETATIVE COVER SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER THE COMPLETION OF THE EROSION CONTROL MEASURES.
 2. VEGETATIVE COVER SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
 3. VEGETATIVE COVER SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
 4. VEGETATIVE COVER SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
 5. VEGETATIVE COVER SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
 6. VEGETATIVE COVER SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

SEMENT & EROSION CONTROL SPECIFICATIONS
 GENERAL
 1. ALL SEMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
 2. ALL SEMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
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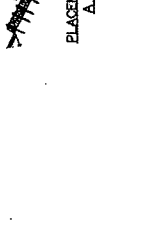
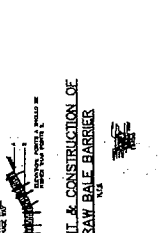
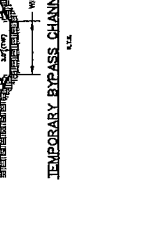
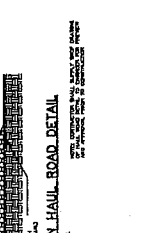
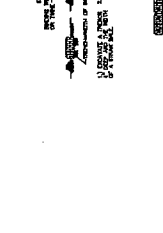
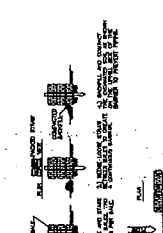
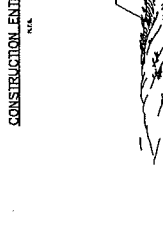
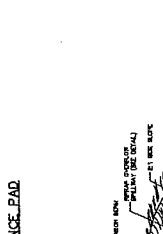
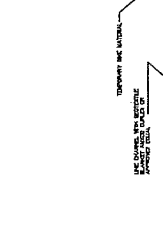
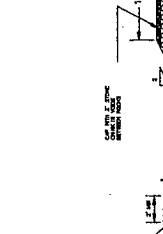
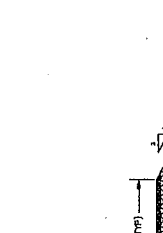
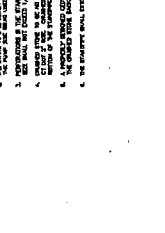
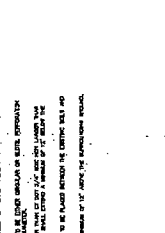
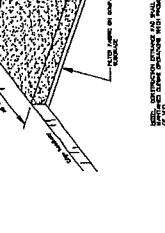
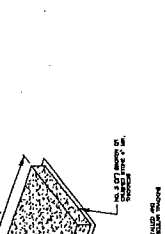
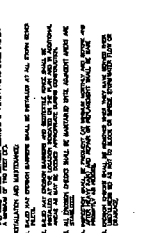
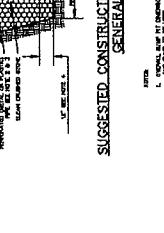
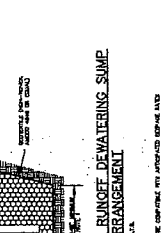
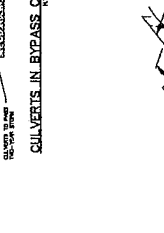
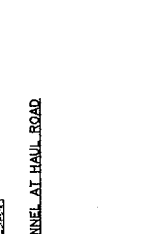
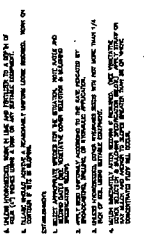
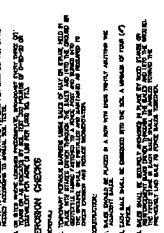
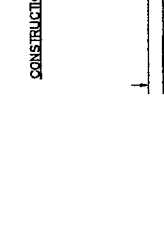
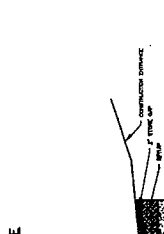
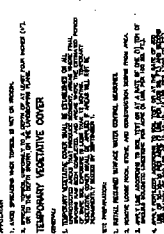
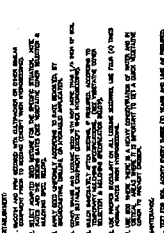
TOPSOILING
 GENERAL
 1. TOPSOILING SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
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TEMPORARY VEGETATIVE COVER
 GENERAL
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EROSION CHECKS
 GENERAL
 1. EROSION CHECKS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
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CONSTRUCTION ENTRANCE PAD
 GENERAL
 1. CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
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TEMPORARY BYPASS CHANNEL DETAIL
 GENERAL
 1. TEMPORARY BYPASS CHANNEL DETAIL SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
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PROPOSED MITIGATION AREA ADJACENT TO MUDDY BROOK

