



**US Army Corps
of Engineers**
New England District
696 Virginia Road
Concord, MA 01742-2751

PUBLIC NOTICE

Comment Period Begins: April 3, 2012
Comment Period Ends: May 3, 2012
File Number: 2007-2588
In Reply Refer To: Amy Bourne
Phone: (978) 318-8651
E-mail: Amy.C.Bourne@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.

APPLICANT: City of Meriden

ACTIVITY: Flood control project comprised of modifying an approximately 3.4-mile long section of Harbor Brook in order to achieve in-stream enhancement and flow reduction and overall floodplain reduction to alleviate flooding in the Harbor Brook watershed. In addition, a linear multi-use trail will be constructed along the length of Harbor Brook.

A detailed description and plans of the activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in Harbor Brook between Hanover Pond and Baldwin Pond, Meriden, Connecticut. The proposed location on the USGS Meriden quadrangle sheet begins at UTM coordinates 41 32 55 N and 72 46 29 E and ends at 41 31 26 N and 72 50 18.

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, 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.

SECTION 106

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

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 project site. It is our preliminary 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 determination.

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 Amy Bourne at (978) 318-8651, (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.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

from Diane M. Ray
Robert J. DeSista
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 work includes excavation and the discharge of excavated and fill material into Harbor Brook for the purpose of flood risk reduction for the City of Meriden downtown area through the relocation of compensatory flood storage generally consistent with the one percent chance flood event to other locations within the Harbor Brook watershed, while ensuring there is no increase in peak flood flow downstream of Hanover Pond. The project is proposed to take place in three phases from 2012-2021.

Specifically, the applicant proposes to modify approximately 3.4 miles of Harbor Brook, resulting in 8.83 acres of permanent impacts below the ordinary high water mark and 1,323 square feet of permanent impacts and 783 square feet of temporary impacts to federal wetlands. These permanent and temporary impacts will result from a range of activities including creation of floodplain shelves; regrading the stream bed channel and associated bank grading; reestablishment of a low-flow thalweg channel; accumulated sediment removal; bank stabilization with coir logging; placement of rip rap; multiple bridge removal and replacements to accommodate the new proposed base flow; removal of retaining walls; daylighting 3.2 acres of piped stream; culvert, manhole and outfall installation; energy dissipater, sediment trap, dewatering pump and access road construction; and construction of a linear multi-use trail along the entire length of Harbor Brook.

In order to compensate for lost flood storage as a result of the project, the applicant proposes to construct a 1.68 acre wetland floodwater storage area by excavating approximately 1 acre of upland forest on the right bank of Harbor Brook at Falcon Park and installing a flow control system at the Westfield Road bridge; this will result in 0.14 acres of impacts (part of the total 8.8 acres) below the ordinary high water mark and provide 21.8 acre-feet of storage volume. In addition, the former HUB site on Pratt Street will provide 53 acre-feet of flood storage volume.

These activities will result in a reduction of the floodplain inundated by the 1 percent annual chance event from 225 acres to 95 acres and will remove 300 structures from the base flood inundation area. Fifty structures will remain unprotected from the base flood; the City of Meriden will pursue floodproofing of residential structures.

The work is described on the enclosed plans entitled "HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT," (64 sheets) and dated "Feb 2011 and revised March 2, 2012."

To view all 64 sheets, visit www.nae.usace.army.mil and view Regulatory → Public Notices.

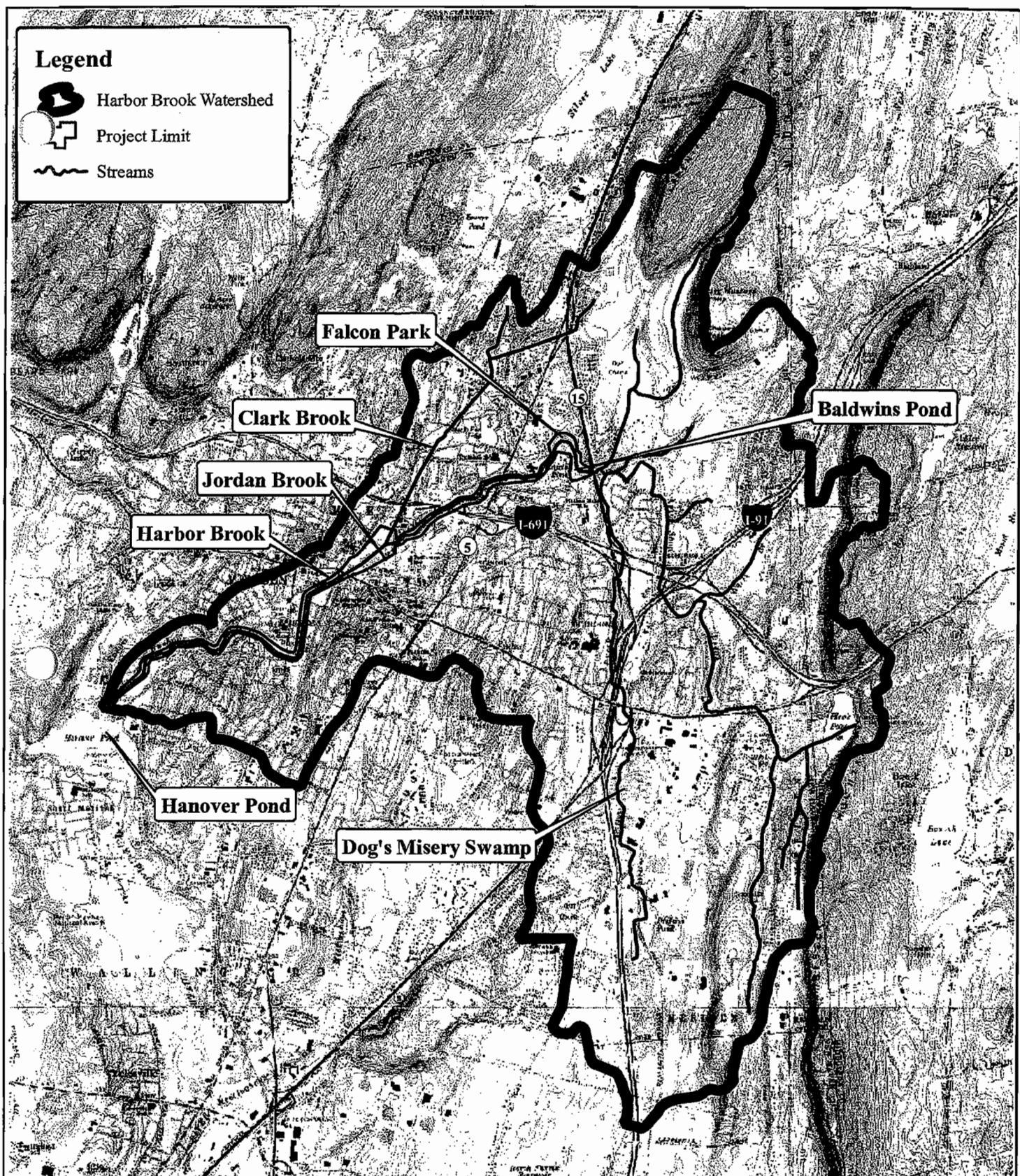
MITIGATION – The project has undergone many revisions over multiple years in order to reduce impacts to waters and wetlands. Alternative sites for compensatory flood storage were evaluated throughout the watershed. The alternatives that were evaluated and not chosen for flood storage either impacted federally regulated wetlands, did not provide enough acre-feet of storage to deem them practicable or were contrary to the public interest. The alternatives analysis is detailed and well-documented in the Corps' project file.

To compensate for unavoidable impacts associated with the proposed alternative, the applicant proposes to preserve 6.3 acres of uplands and 36.7 acres of wetlands in Dog's Misery Swamp (Parcel ID numbers 0910-322B-006Q-0000, 0910-0322-0007-0000, 0910-322B-007B-0000, 0910-322B-007A-0000 and 0910-322B-0007-0004) under a conservation easement. In addition, the applicant will remove two residential structures, a portion of existing asphalt road and existing debris at the end of Barr Road (Parcel ID numbers 0910-322B-007B-0000, 0910-322B-007A-0000 and 0910-322B-0007-0004); these areas will be monitored for invasive species and allowed to naturalize; these three parcels are included in the 43 acres proposed for preservation.

Further, Brookside Park, City Park and the wetland creation area at Falcon Park, mentioned above, will also be protected in perpetuity under a conservation easement in order to preserve the existing and created flood storage capacities.

Legend

-  Harbor Brook Watershed
-  Project Limit
-  Streams



Engineering,
Landscape Architecture
and Environmental Science



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Cheshire, Connecticut 06410
(203) 271-1773 Fax: (203) 272-9733
www.miloneandmacbroom.com

Harbor Brook Flood Control and Linear Trail Project

LOCATION:
Meriden, CT

MMI#: 1261-14-20

MXD: H:\Attachment_B.mxd

SOURCE: CT DEP, USGS



Project Location Map

Map By: SMG

Date: February 2011

Scale: 1"=4,000'

SHEET:
Attachment B

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND MERIDEN, CONNECTICUT

60% DESIGN / REGULATORY SUBMISSION SET
FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

FEB 2011

REVISED: MARCH 2, 2012

FLOOD CONTROL IMPLEMENTATION AGENCY

Philip Ashton - CHAIRMAN
Dwight L. Needels
Walter Hylwa
Frank Lewandowski
George McGoldrick
Paul Miller
David White

CITY REPRESENTATIVES

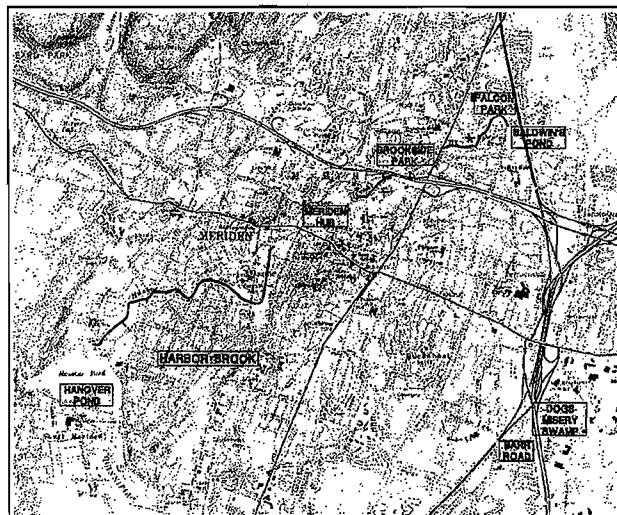
Michael Rohde
MAYOR

Matthew C. Daminello, Sr.
DEPUTY MAYOR

Lawrence J. Kendzor
CITY MANAGER

Mark Zebora
DIRECTOR OF PARKS, RECREATION AND PUBLIC BUILDINGS

Robert J. Bass, P.E.
DIRECTOR OF PUBLIC WORKS



PROJECT SITE VICINITY MAP:

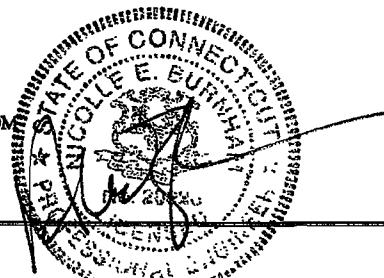
LIST OF DRAWINGS:

SHEET NO.	SHEET IN SET	DRAWING
GN-1	01	TITLE
	02	GENERAL NOTES
RA-1 to RA-17	03-19	REGULATED ACTIVITIES
FP-1 to FP-2	20-21	1% ANNUAL CHANCE FLOODPLAIN MAPPING
PROF-1	22	PROFILE - HARBOR BROOK
PH-1 to PH-2	23-24	PROPOSED CONSTRUCTION PHASING
IN-EX-1 to IN-EX-2	25-26	INDEX - EXISTING CONDITIONS
EX-1 to EX-9	27-35	SITE PLAN - EXISTING CONDITIONS
IN-PR-1 to IN-PR-2	36-37	INDEX - PROPOSED CONDITIONS AND S&E CONTROL
PR-1 to PR-18	38-54	SITE PLAN - PROPOSED CONDITIONS AND S&E CONTROL
MI-1	55	MITIGATION PLAN - BARR ROAD
MI-2	56	WETLAND RESTORATION PLANTING PLAN
MI-3 to MI-4	57-58	TYPICAL WETLAND RESTORATION PLANTING SECTIONS
MI-5	59	TYPICAL CROSS SECTIONS
D-1	60	INSTREAM CHANNEL IMPROVEMENTS DETAILS
D-2	61	SEDIMENT AND EROSION CONTROL DETAILS
H-1	62	FISHERIES HABITAT AND STRUCTURE PLAN
H-2	63	FISHERIES HABITAT AND STRUCTURE PLAN
H-3	64	TURTLE HABITAT MANAGEMENT PLAN

MMI# 1261-14-20

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Landscaping Architecture
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Meriden, Connecticut 06451
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GENERAL NOTES

- ALL TOPOGRAPHIC INFORMATION IS IN THE WISCONSIN GRID SYSTEM DATA (WGS) AND ALL HORIZONTAL DATA IS IN THE CONVENTION COORDINATE SYSTEM (WGS 1984).
 - THE ADDRESS OF THE PROPERTY LINE IS THAT OF THE GROUND SURFACE. DEPTH OF EARTH moving features DEPTHS IN FEET PROVIDED BY THE CITY OF WISCONSIN ARE FOR INFORMATION ONLY. PROPERTY OWNERS APPRAISE THE LOCATION AND DEPTH OF EARTH moving features IN THE PROPERTY OWNED AND SHOULD BE CONTACTED APPROPRIATE PROPERTY OWNERSHIP DATA FROM CITY OF WISCONSIN APPRAISAL DIVISION.
 - NO CHANNEL CROSS SECTION SURVEYS WILL BE PREPARED BY WISCONSIN & MACROPILOT, INC. OR THE DESIGN DEVELOPMENT GROUP UNLESS REQUESTED.
 - THE EXISTING LOCATION OF DESTROYED FEATURES WILL BE MARKED AND MAINTAINED UNTIL APPROVAL AND MAY BE MODIFIED, AND WHERE NECESSARY SHOULD BE COMPENSATED APPROPRIATELY. THE LOCATION OF ALL DESTROYED FEATURES SHOULD BE DOCUMENTED IN WRITING AND MAINTAINED UNTIL APPROVAL AND MODIFIED AS NEEDED. DESTROYED FEATURES WHICH DO NOT MATCH THE MATERIAL OR HORIZONTAL CONTROL SURVEY DATA PROVIDED BY THE CITY OF WISCONSIN SHOULD BE MAINTAINED UNTIL APPROVAL AND Brought TO THE ATTENTION OF THE CITY OF WISCONSIN.
 - ALL DISPLACEMENT SURVEYS SHOULD BE REVIEWED IN THIS FILE PRIOR TO CONSTRUCTION. ANY DISPLACEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE DIGITAL.
 - SEISMIC AND EROSION CONTROL MEASURES AS SPECIFIED ON THESE PLANS AND DISCUSSED WITH THE STORMWATER AND EROSION CONTROL ENGINEER AND APPROVED BY THE CITY OF WISCONSIN SHALL BE FOLLOWED. THE STORMWATER AND EROSION CONTROL ENGINEER AND PROJECT MANAGER, MAXIMUS' STAFF, CONFIRM TO THE ENGINEER FOR STORMWATER AND STORMWATER CONTROL, THAT ALL EROSION AND SEISMIC CONTROL MEASURES HAVE BEEN PROPERLY PLACED AND SECURED.
 - ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 12" TOPSOIL, AND BE SEEDED WITH GRASSES OR SODDED, AS SHOWN ON THE PLANS.
 - ALL PROPOSED CONTROLS AND SPOTS ELEVATIONS INDICATE FINISHED GRADE.
 - ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE CODES OF THE CITY OF WISCONSIN, REQUIREMENTS AND TO THE APPROVALS OF THE STORMWATER AND EROSION CONTROL ENGINEER AND APPROVALS OF THE STORMWATER AND EROSION CONTROL ENGINEER AND PROJECT MANAGER, MAXIMUS' STAFF, AND ADDRESSES.
 - ANY MAINTENANCE AND RESTYLING OF EROSION AND SEISMIC SURFACES SHALL BE PERFORMED AT LEAST 10 FEET FROM WISCONSIN WATER FEATURES AND WATERSHEDS. NO EROSION AND SEISMIC SURFACES SHALL BE RESTYLING OR MAINTAINING AT LEAST 10 FEET FROM WATERSHEDS OR WATERSOURCES TO PREVENT CONTAMINATION FROM POSSIBLE LEAKS.
 - THE SITE WILL BE SUBJECT TO REGULAR INSPECTION BY THE ENGINEER FOR MONITORING OF EROSION AND STORMWATER CONTROL.
 - THE PLATE REQUIRE A CONTRACTOR'S WORKMAN KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS, ANY CONSTRUCTION MATERIALS AND METHODS, AND LOCAL AND STATE REGULATIONS. LOCAL AND STATE REGULATIONS SHALL BE BROUGHT TO THE ATTENTION OF PROVIDERS OF SERVICES AND CONTRACTORS.
 - ALL FUEL, OIL, PAINT, DYE, OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECURELY CONTAINER AND REMOVED TO A DESIGNATED AREA WITH AN IMPENETRABLE FLOOR DURING NON-WORK HOURS.
 - CONTRACTOR TO MAINTAIN ACCESS TO LISTED UTILITIES/DEPOT/HOUSE HOURS.
 - CONTRACTOR IS TO PRACTICE VIGILANT TO NOT DAMAGE OR DESTROY IT IS TO PLACE BEYOND THE LIMITS OF WORK SITES.
 - THE STORMWATER AND EROSION CONTROL PLAN SHALL BE REVIEWED BY THE CONTRACTOR, THE ENGINEER AND THE STORMWATER AND EROSION CONTROL ENGINEER PRIOR TO CONSTRUCTION.
 - THE SITE SHALL BE FREE OF DEEP SOIL, DEBRIS, LITTER & WASTING MATERIALS SUCH THAT HOME EVER WATERS OR RETAINING.
 - A COPY OF ALL PLANS & REVIEWS AND THE STORMWATER AND EROSION CONTROL PLANS SHALL BE MAINTAINED ON-SITE DURING ALL CONSTRUCTION ACTIVITIES.
 - THE SITE WAS PROVIDED FOR THE PRESENCE OF DEEP SOIL RETAININGS BY WISCONSIN & MACROPILOT, INC. THE FIELD INSPECTION DETERMINED THAT THE DEEP SOIL RETAININGS WERE NOT REQUIRED AND THAT THE DEEP SOIL RETAININGS BY WISCONSIN & MACROPILOT, INC. WERE NOT REQUIRED AND NO DEEP SOIL RETAININGS BY WISCONSIN & MACROPILOT, INC. WERE PROVIDED.
 - CATCH PITS/FALL GUARDS OR CHECK VALVES MAY BE REQUIRED ON SELECTED STREAM DRAIN DRAILS TO HARBOR BRIDGE.
 - THESE PLANS WHICH SHALL BE SUPPLEMENTED BY WISCONSIN MATERIAL FEATURES AND LOW LOAD CHARGE DURING FLOOD DESIGN AGAINST FLOOD DRAINS AND BREEZE CENTERS BASED UPON LAKE ACCUMULATIONS AND EROSIONS.
 - WISCONSIN PUBLIC WORKS AND PRIVATE PROPERTY OWNERSHIP HIGHLIGHTS USES OR AREAS TO ATTACH TO THE INFRASTRUCTURE, TO BE MAINTAINED AND MAINTENANCE REQUIREMENTS.
 - ALL STREAM DRAINS SHALL BE BURIED UNDER NEW REINFORCED CONCRETE PIPE (NRP) OR HIGH DENSITY POLYETHYLENE PIPE (HDPE) UNLESS OTHERWISE INDICATED.
 - ALL QUALITY SANITARY SEWER PIPS SHALL BE THE SAME UNLESS OTHERWISE INDICATED.
 - PENNSY CONSTRUCTION MATERIALS SHALL BE USED WHERE SITE CONDITIONS ALLOW.

CONSTRUCTION SEQUENCE

PROJECT PLANS IN THIS SUBMISSION SET ARE PRELIMINARY AND REPRESENT A MASTER PLAN FOR IMPROVEMENTS AS FUNDING BECOMES AVAILABLE. THE CITY WILL DEVELOP DESIGN PLANS FOR SPECIFIC PROJECT ELEMENTS, DETAILED CONSTRUCTION PLANS AND SCHEDULING WILL BE DEVELOPED AT THAT TIME. THE PLAN IS A GENERAL STRUCTURE FOR CONSTRUCTION ACTIVITIES.

1. PRIOR TO COMMENCEMENT OF WORK, A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER AND REPRESENTATIVES OF THE CONTRACTOR AND DESIGNER. AS PART OF THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE PROJECT. THIS PERSON MAY BE THE SUPERVISOR OR PROJECT MANAGER, OR HE MAY BE NAMED IN WRITING 30 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 2. CONTRACTOR TO STATE DATE LIMITS OF DISTURBANCE AND VEGETATION TO BE RETAINED. RETENTION IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SITES.
 3. CONTRACTOR TO ESTABLISH SEDIMENT AND EROSION CONTROLS AND STABILIZED CONSTRUCTION AREAS.
 4. CLEAR AND GRADUALLY AWAY AND STABILIZED TOPSOIL PLACES BEFORE TILLING FENCE AND PARALLEL AROUND STOCKPILES.
 5. CONTRACTOR TO ESTABLISH TEMPORARY AREAS IN FOREST AND FORESTED AREAS FOR THE STORING AND LOGGING CORDOON PLAN.
 6. INSPECT MASTERS MUST BE PLACED ON ALL BURNS, BEACHES, SITES, SITE LINE & VEHICLES. E-LEVELS ARE INSTALLED.
 7. TEMPORARY STREAM BANKS ARE TO BE DREDGED AND REINFORCED AND SWALES SHOT TO BE CONSTRUCTED PRIOR TO EACH PHASE OF GRAVITY DRAINAGE SYSTEMS.
 8. SLOPES ARE TO BE ESTABLISHED AS SOON AS PRACTICAL BEFORE UNTILY INFLUENCING SURFACE AREAS SUBJECTIVE AND THEIR ESTABLISHMENT.
 9. TEMPORARY STREAM BANKS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND MAX. 24 HOURS OF THE END OF A STORM. IF THE STREAM BANKS FAIL, THE CONTRACTOR IS TO REPAIR THEM IMMEDIATELY. IF THE STREAM BANKS FAIL DUE TO THE LOSS OF THE ENTIRE STREAM CAPACITY OF THE BANK, THE WIDTH OF AVAILABLE POOL IS REDUCED TO 18 INCHES.
 10. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MOVED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE SEDIMENT CONTROL REPRESENTATIVE AS NECESSARY DUE TO CHANGE SITE CONDITIONS.
 11. IMPACTION OF EACH WORK AREA FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHILE THE SEDIMENT CONTROL PLAN IS IN EFFECT.
 12. ALL SEPARATING MATERIALS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISPOSITION OF THE RECEIVING WATERS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS OF CT DEQ'S CRITICAL PERMIT FOR DISCHARGE OF CONSTRUCTION WASTEWATER AND EROSION WASTEWATER.

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GENERAL NOTES

HARBOR BROOK FLOOD CONTROL

MILONE & MACBROOM

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REVIEWERS

104

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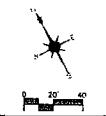
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MATCHLINE SHEET RA-2

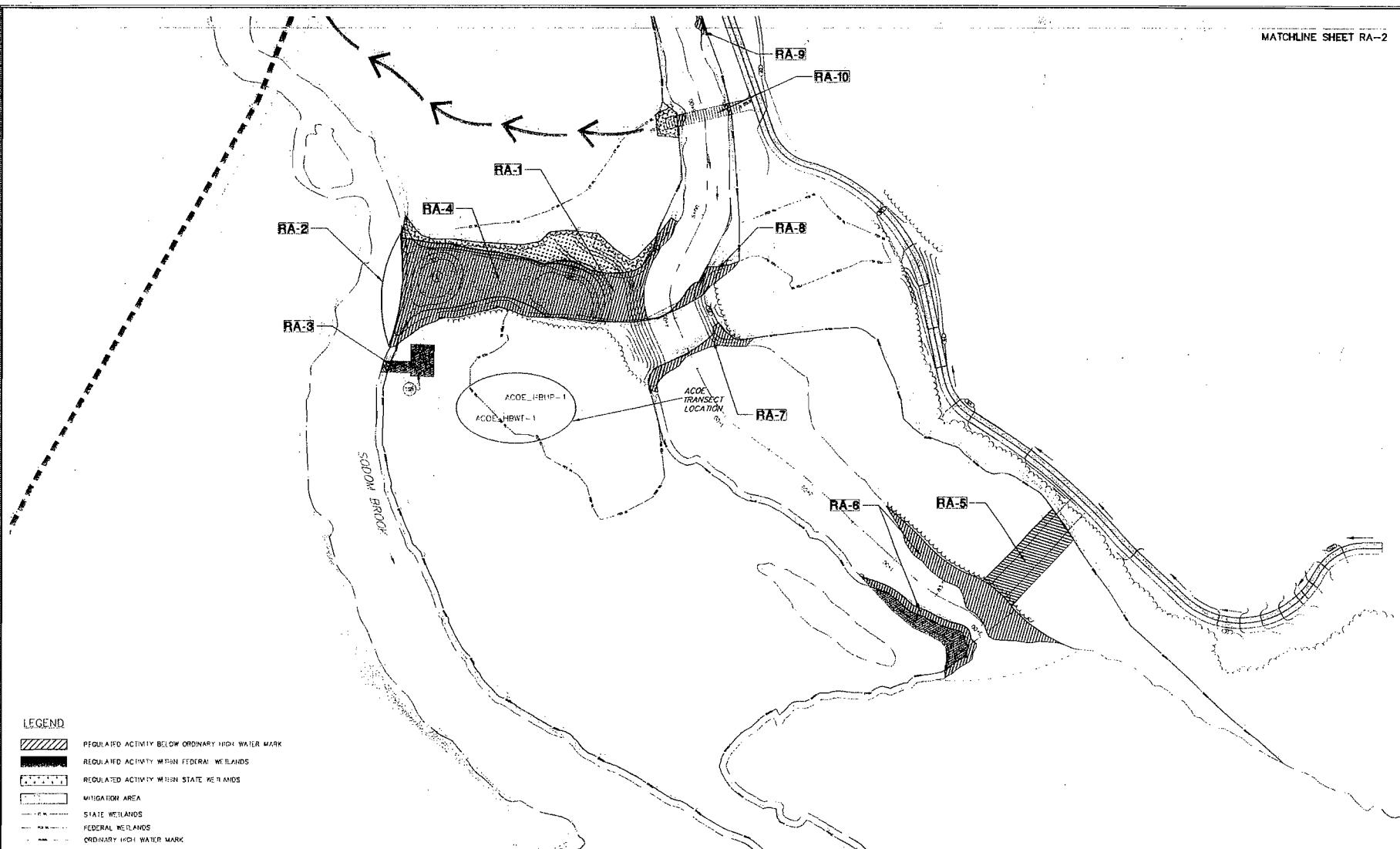


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REVISIONS	REMARKS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN'S POND
MIDDLEBURY, CONNECTICUT

FOR PLANNING ONLY, NOT FOR CONSTRUCTION

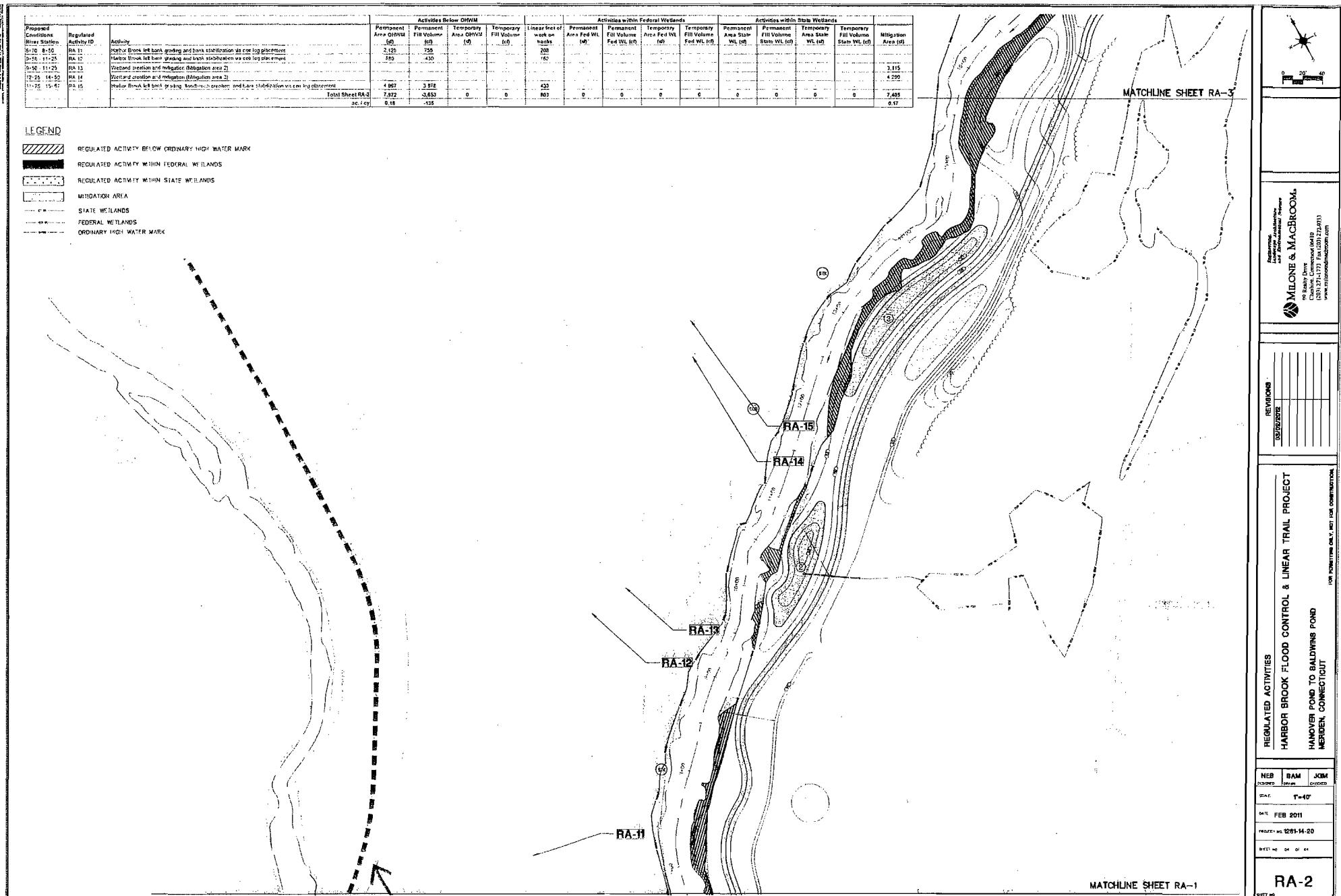


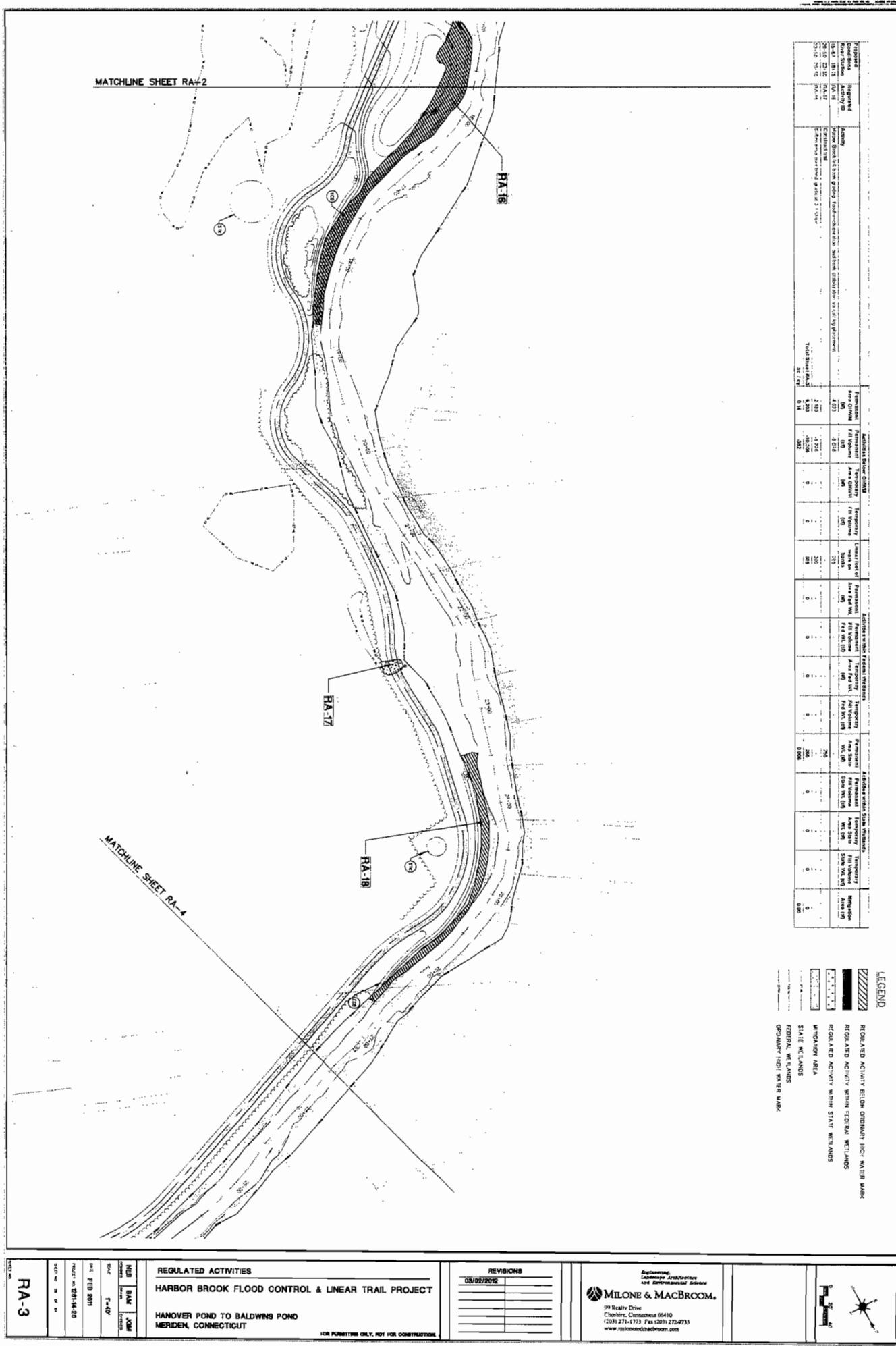
LEGEND

- REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
- REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
- REGULATED ACTIVITY WITHIN STATE WETLANDS
- MIGRATION AREA
- STATE WETLANDS
- FEDERAL WETLANDS
- ORDINARY HIGH WATER MARK

Project Conditions River Station	Regulated Activity ID	Activity	Activities Below OHWM				Activities within Federal Wetlands				Activities within State Wetlands				Mitigation Area (ft)	
			Permanent Area OHWM (ft)	Permanent Fill Volume (cf)	Temporary Area OHWM (ft)	Temporary Fill Volume (cf)	Linear feet of work on banks	Permanent Area Fed WL (ft)	Permanent Fill Volume Fed WL (cf)	Temporary Area Fed WL (ft)	Temporary Fill Volume Fed WL (cf)	Permanent Area State WL (ft)	Temporary Area State WL (ft)	Temporary Fill Volume State WL (cf)		
RA-1	RA-1	Excavating channel at confluence of Sojourner Truth and Harbor Brook	13,210	14,120	1,235	—	545	—	—	—	—	—	—	—	—	
RA-2	RA-2	Install temporary culvert and testing w/ local soil at Sojourner Truth	—	—	—	—	—	—	—	—	—	—	—	—	—	
RA-3	RA-3	Sojourner Truth dredge and fill (mitigation area 1) between Sojourner Truth and Harbor Brook	—	—	—	—	—	—	—	—	—	—	—	—	—	
RA-4	RA-4	Sojourner Truth dredge and fill (mitigation area 2) between Sojourner Truth and Harbor Brook	—	—	—	—	—	—	—	—	—	—	—	—	—	
RA-5	RA-5	Sojourner Truth dredge and fill (mitigation area 3) between Sojourner Truth and Harbor Brook	—	—	—	—	—	—	—	—	—	—	—	—	—	
RA-6	RA-6	Sojourner Truth dredge and fill (mitigation area 4) between Sojourner Truth and Harbor Brook	—	—	—	—	—	—	—	—	—	—	—	—	—	
RA-7	RA-7	Excavate Harbor Brook left bank to connect to Harbor Pond	556	1,125	—	132	—	—	—	—	—	—	—	—	—	
RA-8	RA-8	Left Harbor Brook bank grading	450	915	—	72	—	—	—	—	—	—	—	—	—	
RA-9	RA-9	Harbor Brook left bank grading and bank stabilization vs rock by erosion	1,105	297	—	176	—	—	—	—	—	—	—	—	—	
RA-10	RA-10	Conduct 1D and 2D modeling analysis of Harbor Brook to connect to Lower Sojourner Truth tributary	165	—	—	—	—	—	—	—	—	—	—	—	—	
			Total Stream RA-1	20,045	1,871	4,105	757	1,782	1,323	0	783	0	436	0	8,820	0.20
			sc./cy	0.45	0.89	0.09	0.00	0.03	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00

RA-1





MATCHLINE SHEET RA-3

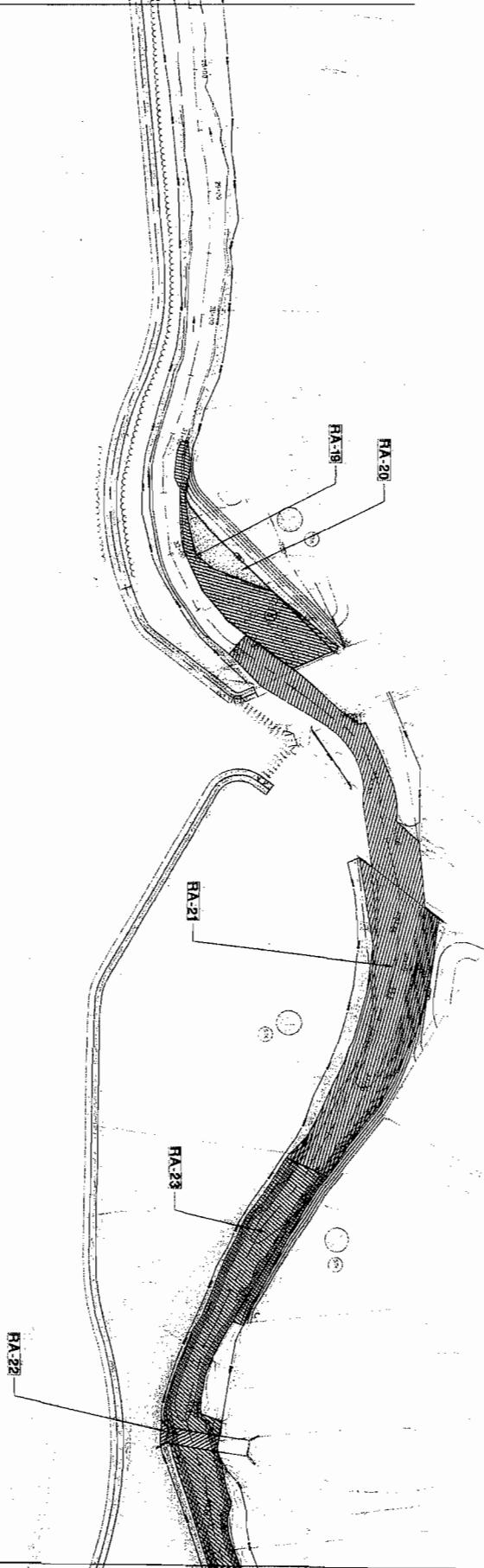
[ECN]

REGULATED ACTIVITIES WITH FEDERAL MANDATES

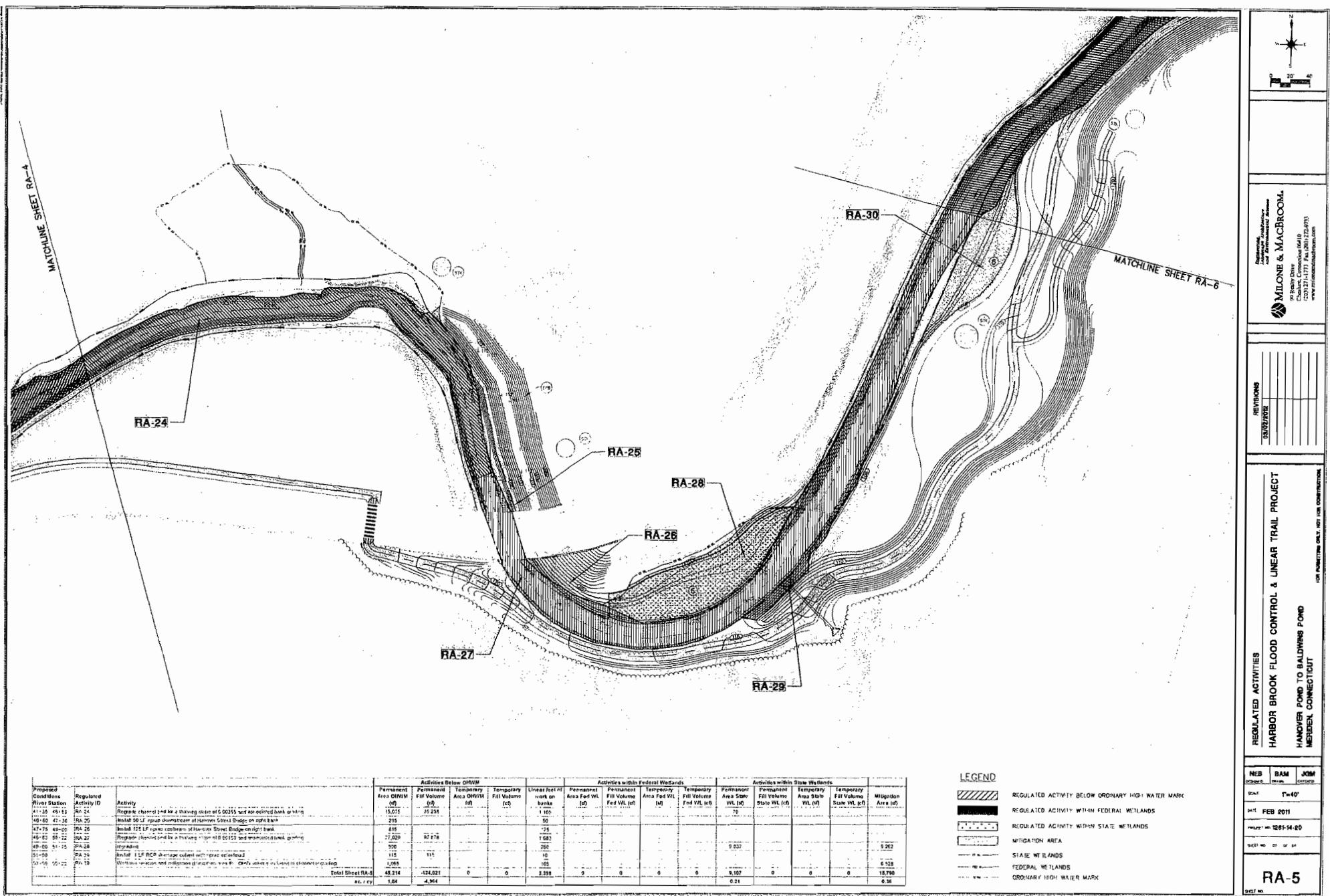
REGULATED ACTIVITY SCHEDULE

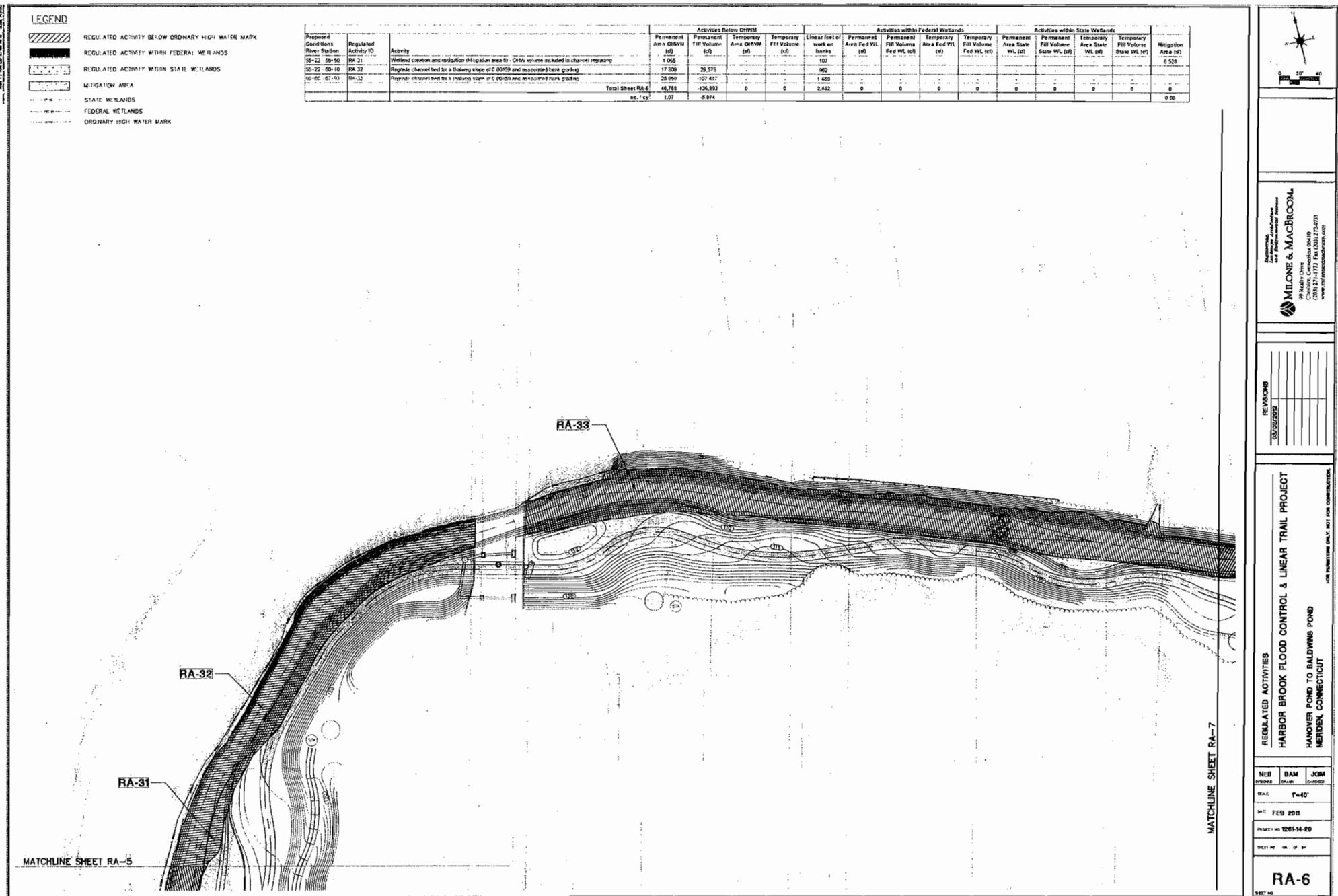
MIGRATION AREA

FEDERAL WETLANDS
ORDINARY HIGH WATER MARK



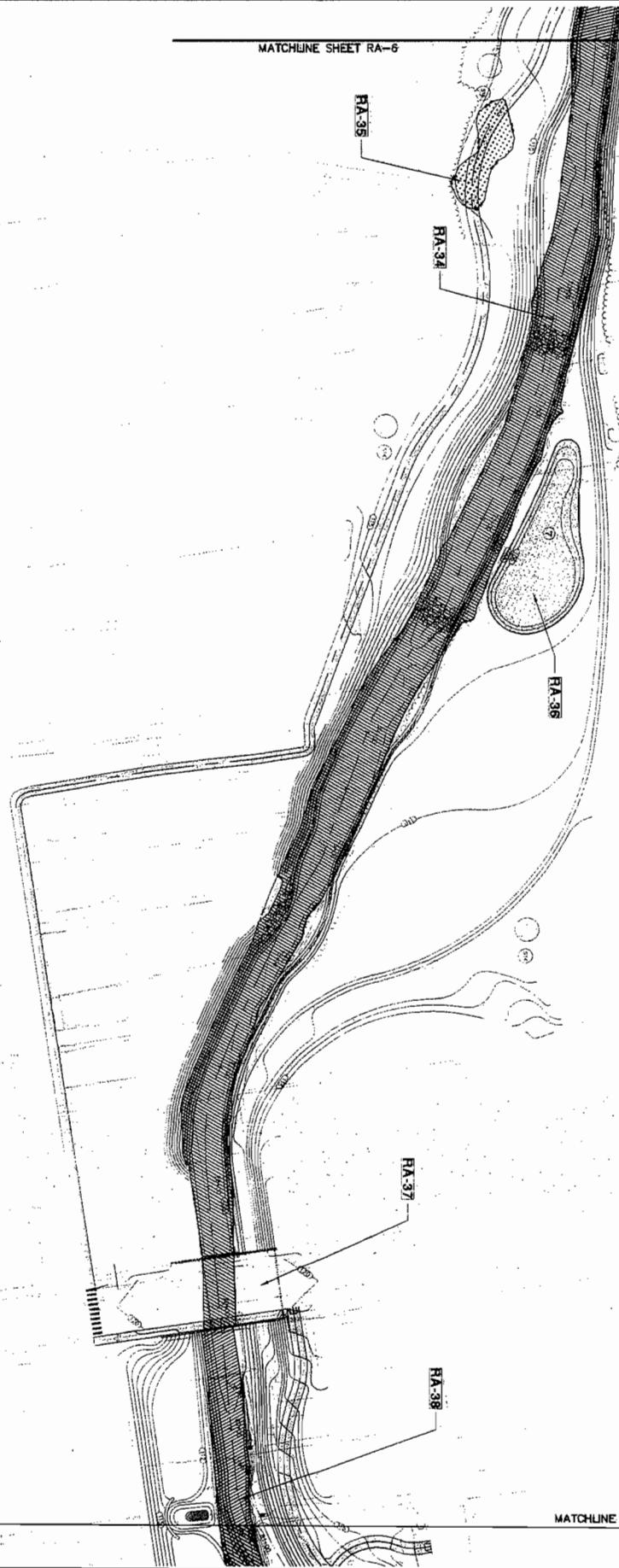
MATCHLINE SHEET RA-5





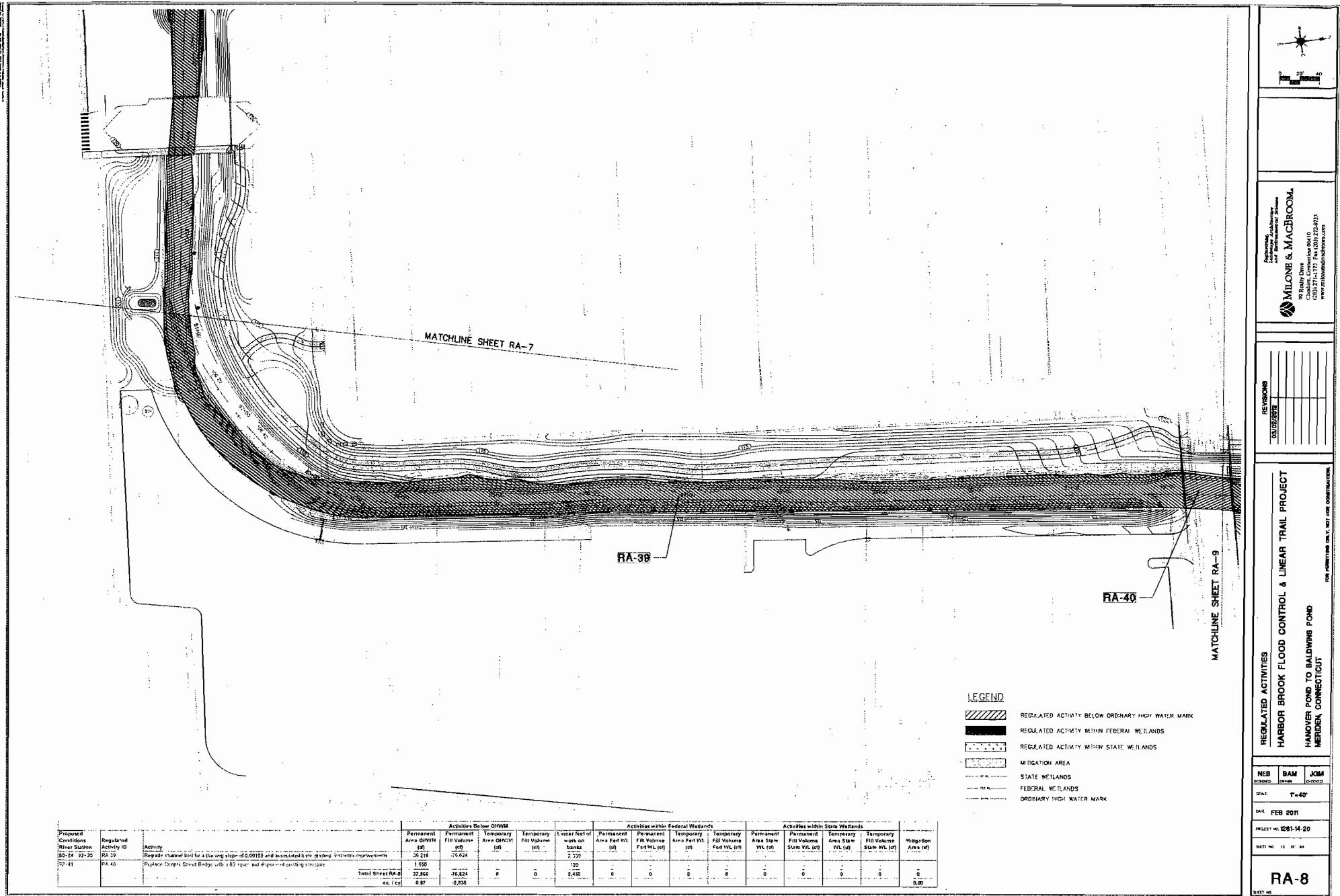
MATCHLINE SHEET RA-6

LEGEND	
	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
	REGULATED ACTIVITY WITHIN STATE WETLANDS
	MILITARY AREA
	STATE WETLANDS
	FEDERAL WETLANDS
	ORDINARY HIGH WATER MARK

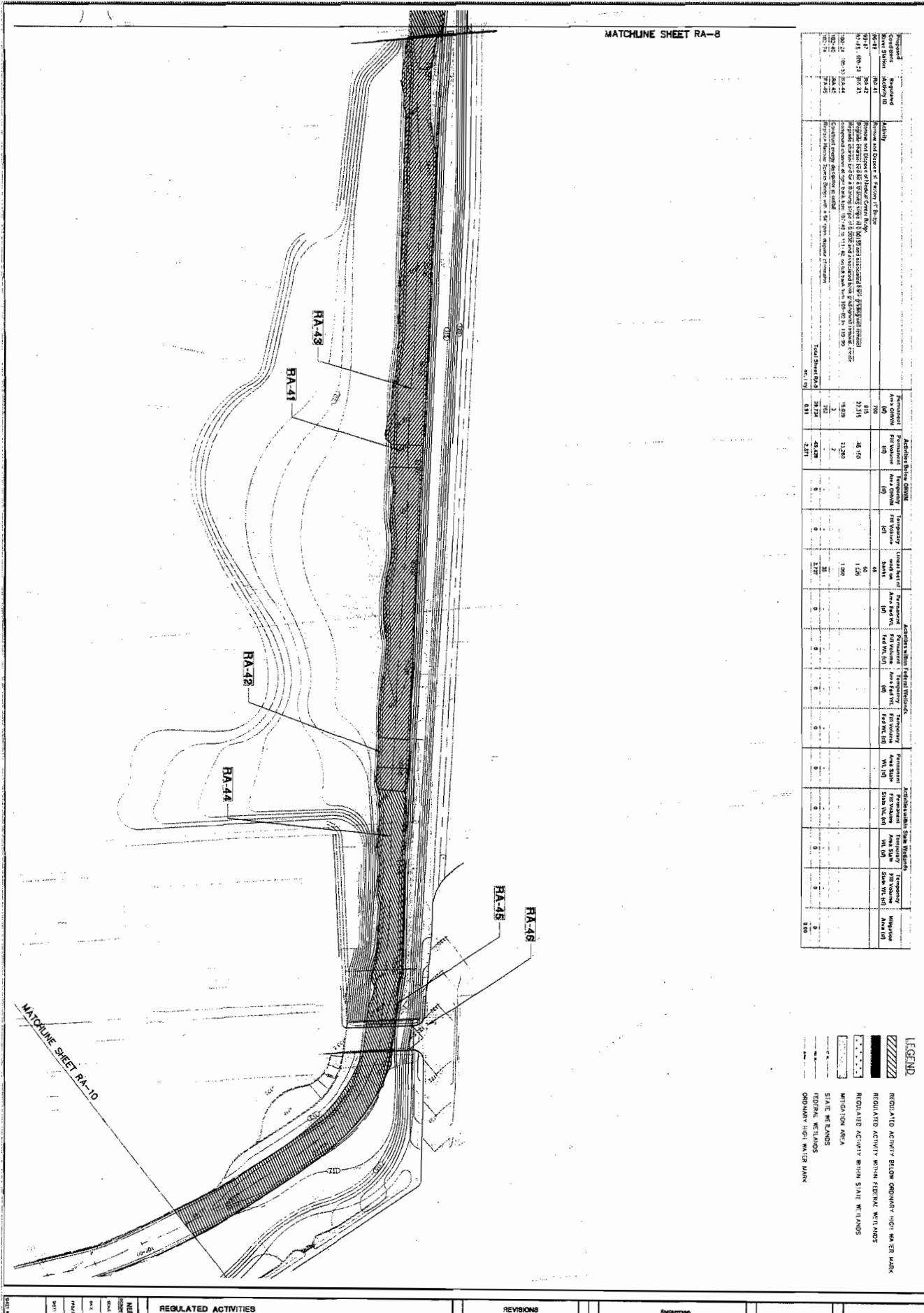


MATCHLINE SHEET RA-8

REF ID	REGULATED ACTIVITIES		REVISIONS	MILONE & MACBROOM	Scale 1:2000		
	HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT						
FOR PERMITS ONLY, NOT FOR CONSTRUCTION							
RA-7			03/02/2010 FEB 2011 Major: 02/25/14-03 Minor: 03/02/14-04	99 Realty Drive Cheshire, Connecticut 06410 (203) 271-1177 Fax (203) 272-9713 www.miloneandmacbroom.com			



MATCHLINE SHEET RA-8

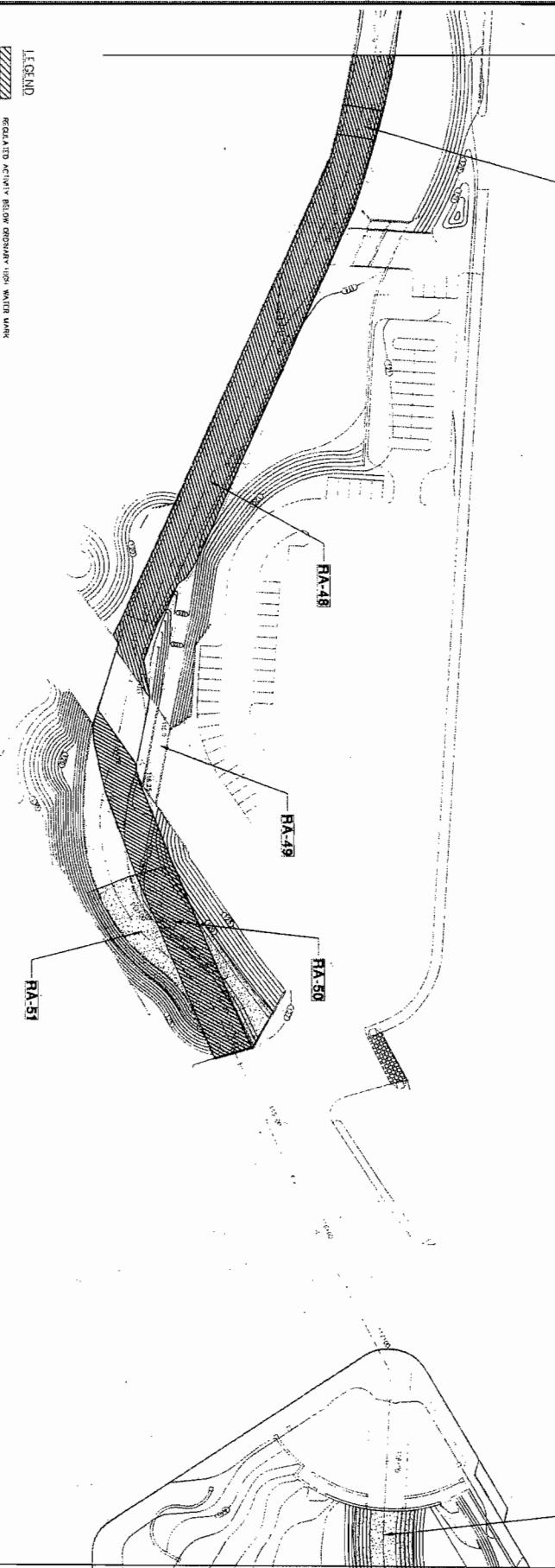


<p>RA-9</p> <p>RA-9 FEB 2011 1205-14-20 RA-9</p>	<p>REGULATED ACTIVITIES</p> <p>HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT</p> <p>HANOVER POND TO BALDWIN POND MERIDEN, CONNECTICUT</p> <p>FOR PERMITTING ONLY, NOT FOR CONSTRUCTION.</p>	<p>REVISIONS</p> <p>03/02/2012</p>	<p>Engineering, Landscape Architecture and Environmental Services</p> <p>MILONE & MACBROOM</p> <p>99 Ralby Drive Cromwell, Connecticut 06410 (860) 271-1711 Fax (860) 272-9793 www.miloneandmacbroom.com</p>	
---	---	---	---	--

MATCHLINE SHEET RA-9

LEGEND

- REGULATED ACTIVITY BY ORDINARY HIGH WATER MARK
- REGULATED ACTIVITY WITHIN STATE WILDLANDS
- REGULATED ACTIVITY WITHIN STATE WILDLANDS
- MITIGATION AREA
- STATE WILDLANDS
- FEDERAL WILDLANDS
- PRIMARY HIGH WATER MARK



MATCHLINE SHEET RA-11

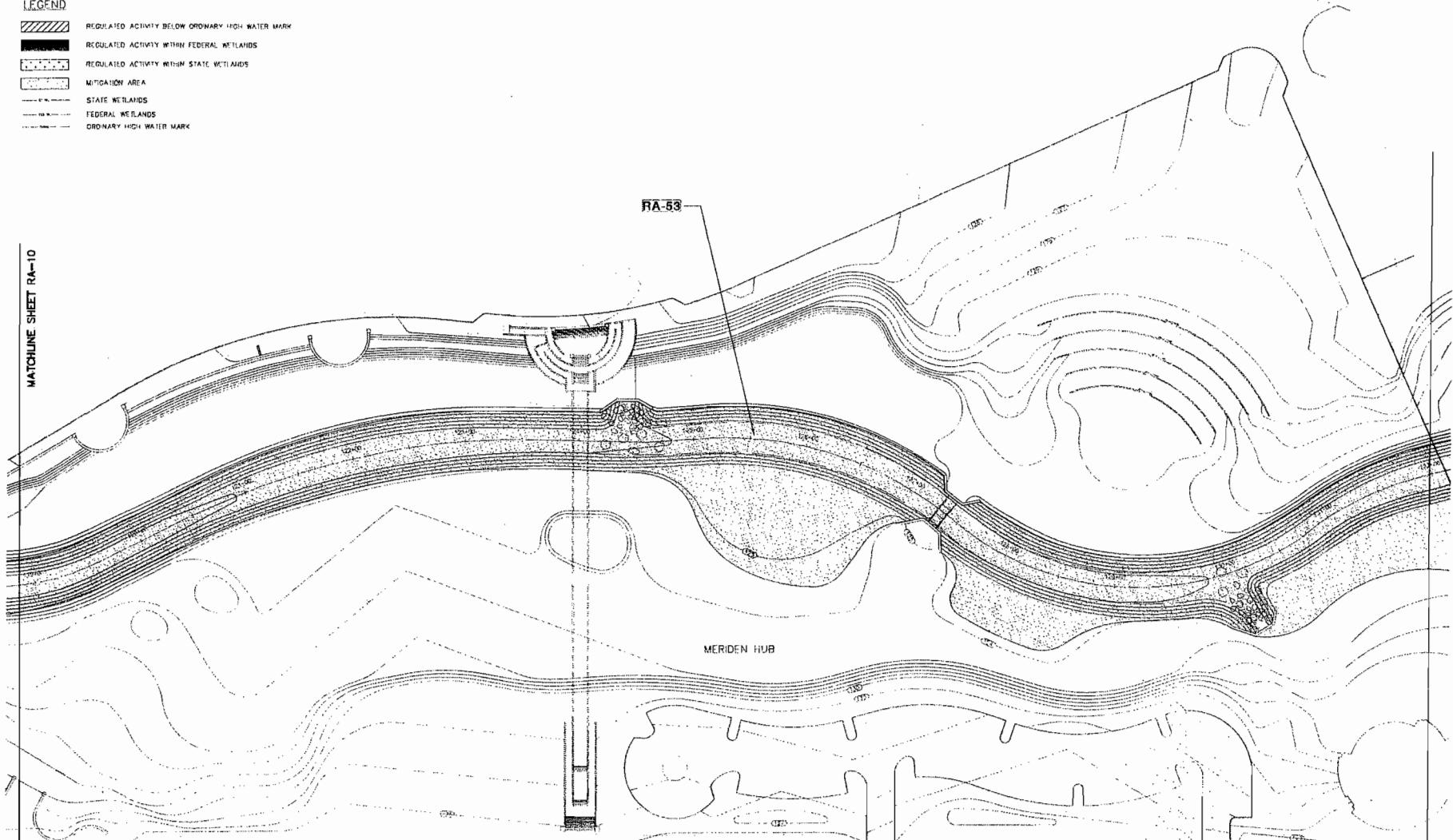
Proposed Activities Affected Areas	Required Permitting Conditions	Permanent Permitting		Temporary Permitting		Least Freq. of Permitting		Permanent Permitting		Temporary Permitting		Least Freq. of Permitting		Permanent Permitting		Temporary Permitting		Least Freq. of Permitting	
		Area Cited Affected Area	Permit Type	Area Cited Affected Area	Area Cited Affected Area	Permit Type	Area Cited Affected Area	Permit Type	Area Cited Affected Area	Area Cited Affected Area	Permit Type								
RA-47	None	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
RA-48	None	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
RA-49	None	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
RA-50	None	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
RA-51	None	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
RA-52	None	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

REGULATED ACTIVITIES	REVISIONS			MILONE & MACBROOM			
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT				99 Ralby Drive Cheshire, Connecticut 06410 (203) 271-1771 Fax (203) 272-4753 www.miloneandmacbroom.com			
HANOVER POND TO BALDWINS POND							
MERIDEN, CONNECTICUT							
RA-10							

LEGEND

- REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
- REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
- REGULATED ACTIVITY WITHIN STATE WETLANDS
- MITIGATION AREA
- STATE WETLANDS
- FEDERAL WETLANDS
- ORDINARY HIGH WATER MARK

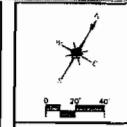
MATCHLINE SHEET RA-10



MATCHLINE SHEET RA-12

Project Confidence River Station	Regulated Activity ID	Activity	Activities Below OHWM						Activities within Federal Wetlands						Activities within State Wetlands					
			Permanent Area Offsite (ft)	Permanent Fill Volume (ft ³)	Temporary Area Offsite (ft)	Temporary Fill Volume (ft ³)	Linear feet of work on banks	Permanent Area Fed. WL (ft)	Permanent Fill Volume Fed. WL (ft ³)	Temporary Area Fed. WL (ft)	Temporary Fill Volume Fed. WL (ft ³)	Permanent Area State WL (ft)	Permanent Fill Volume State WL (ft ³)	Temporary Area State WL (ft)	Temporary Fill Volume State WL (ft ³)	Mitigation Area (ft)				
118-90 - 131-27	RA-53	Digital Channel Contract (Total 0.483)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92,112	92,112	2,11	
		Total Sheet RA-11 SC / cy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92,112	92,112	2,11	

RA-11



Engineering, Consulting,
Land Development Services
19 River Drive
Cheshire, Connecticut 06411
(203) 271-1771 Fax (203) 272-2773
www.maloneandmacroom.com

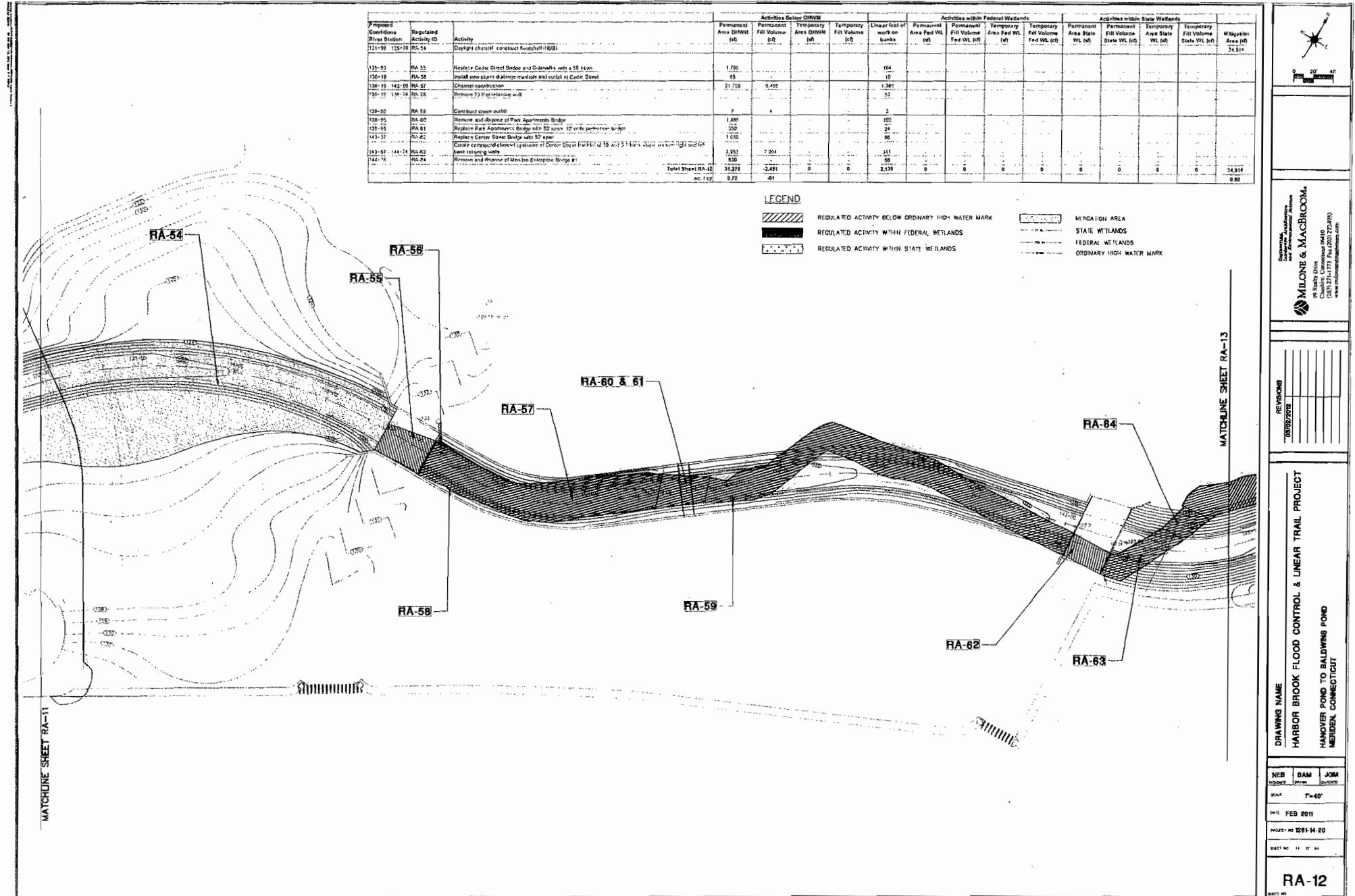
REVISIONS	0
DATE	08/20/02

DRAWING NAME
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN POND
MERIDEN, CONNECTICUT

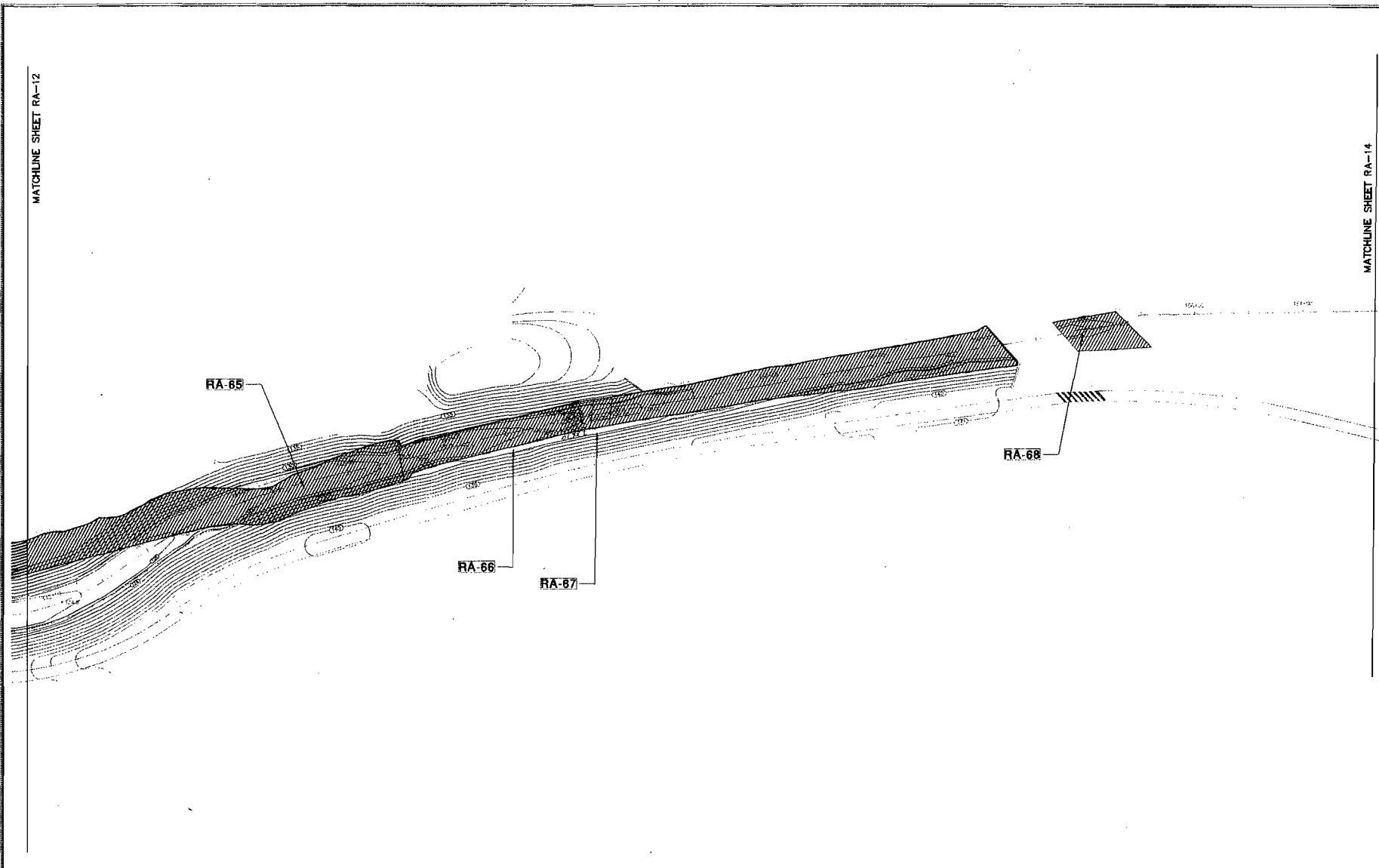
NEB
DRIVE
BAM
DRIVE
JGM
DRIVE
DATE
FEB 2001

PROJ NO: 1261-14-20
DECI NO: 12 07 04
NETT NO:

RA-11



MATCHLINE SHEET RA-12



Proposed Conditions Wetland Status	Regulated Activity ID	Activities Below OHWM										Activities within Federal Wetlands									
		Permanent Area OHWM (ac.)	Permanent Fill Volume (cu. yd.)	Temporary Fill Volume (cu. yd.)	Linear feet of work on bank	Permanent Area Fed Wt. (ft.)	Temporary Fed Volume (cu. ft.)	Temporary Fed Volume (cu. ft.)	Permanent Area State Wt (ft)	Permanent Fill Volume State Wt (cu. yd.)	Temporary Area State Wt (ft)	Temporary Fill Volume State Wt (cu. yd.)	Mitigation Area (ft)								
144-74 154-20	RA-65	Activity Crown required change elevation of C-14-74 Street backfill of 10' feet & 1 hour state review right and left bank retaining wall.	38.405	5,651				1,865													
149-55	RF-66	Reserve and Detain at London Emergency Bridge #2	505					40													
150-20	PA-57	Reserve Use-301-Environmental Control Permit Notice Building and retaining wall recently operating now	466					40													
154-7C 151-40	PA-45	Reserve London Emergency Bridge #2 adjacent to the eastern end of Camp Avenue	2,953	600				128													
Total Sheet RA-12		10,333	6,581	0	0	2,974	0	0	0	0	0	0	0								
Ac. / cu. yd.		0.13	322																		

LEGEND

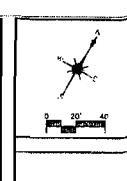
- REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
- REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
- REGULATED ACTIVITY WITHIN STATE WETLANDS
- MITIGATION AREA
- STATE WETLANDS
- FEDERAL WETLANDS
- ORDINARY HIGH WATER MARK

MATCHLINE SHEET RA-14

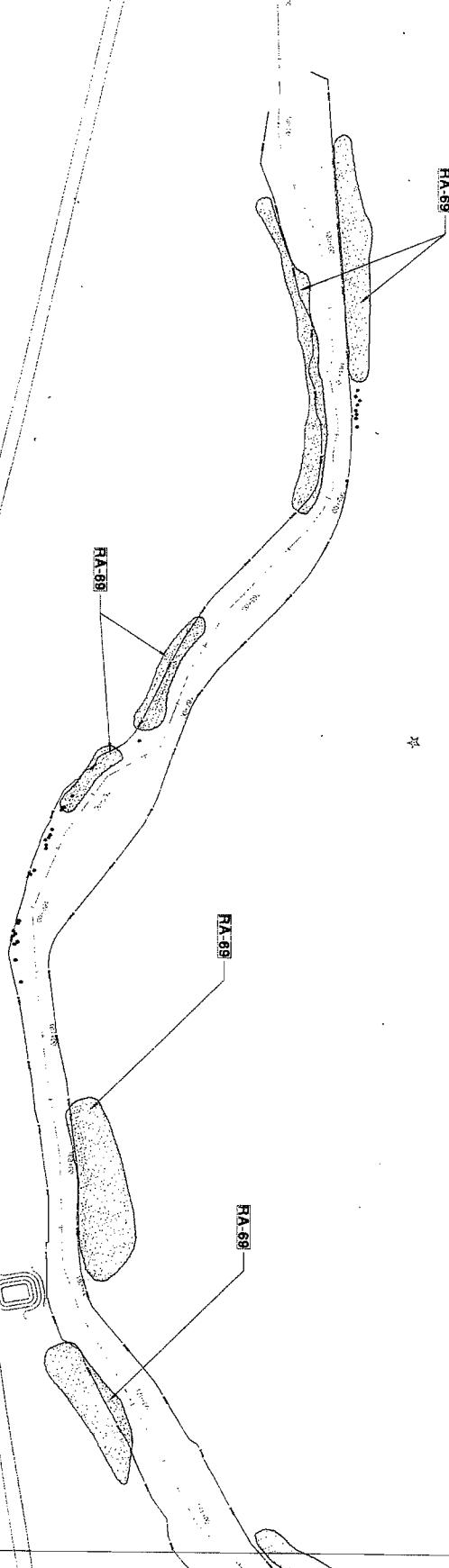
DRAWING NAME: HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
DRAWING NUMBER: 1281-14-20
DATE: FEB 2011
PROJECT NO.: 1281-14-20
LOCATION: HANOVER POND TO BALDWIN POND
MERRIDEN, CONNECTICUT

REVISIONS	REVISOR

RA-13

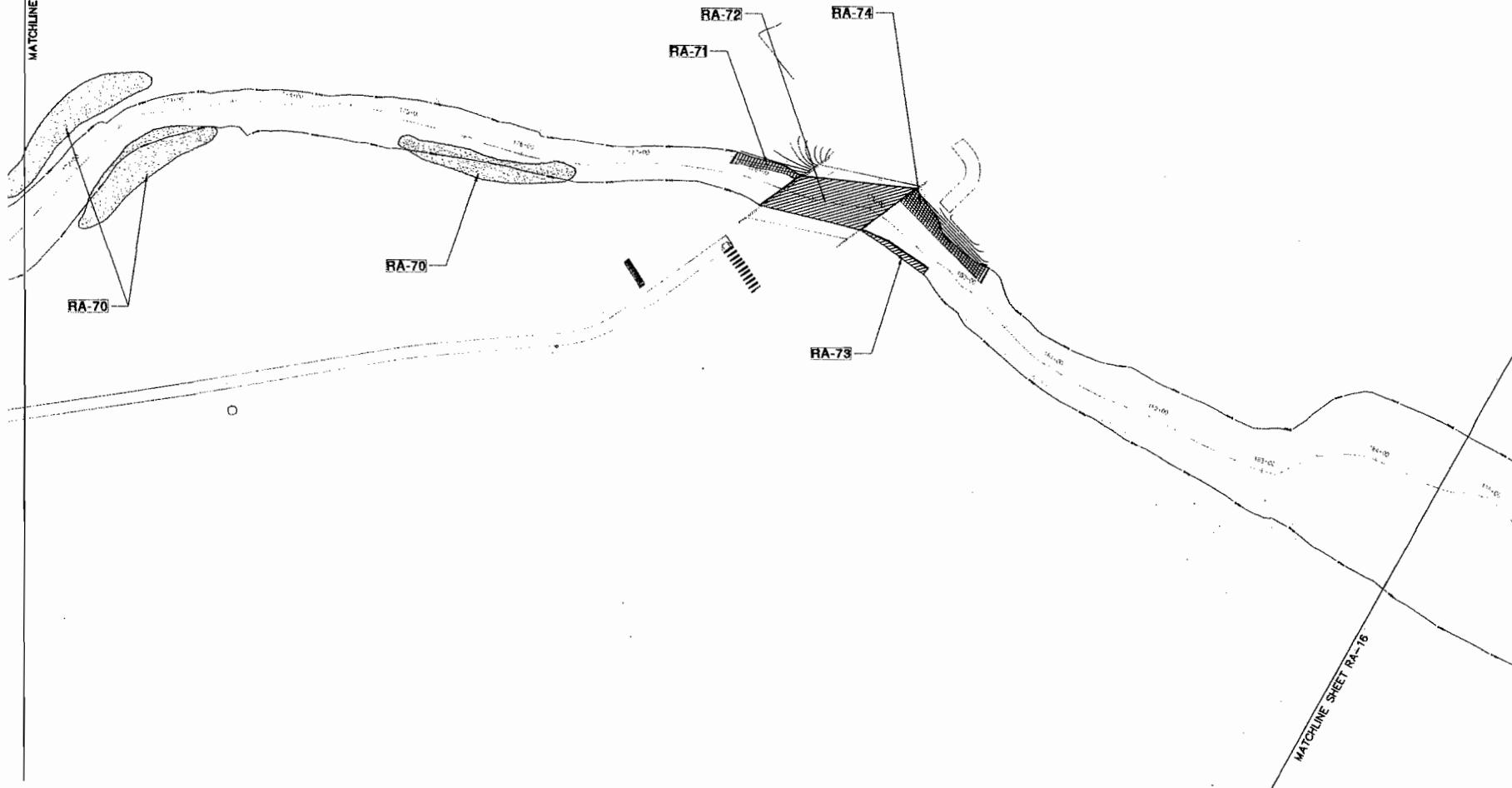


MATCHLINE SHEET RA-13



MATCHLINE SHEET RA-15

MATCHLINE SHEET RA-14



LEGEND

	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
	REGULATED ACTIVITY WITHIN STATE WETLANDS
	MIGRATION AREA
	STATE WETLANDS
	FEDERAL WETLANDS
	ORDINARY HIGH WATER MARK

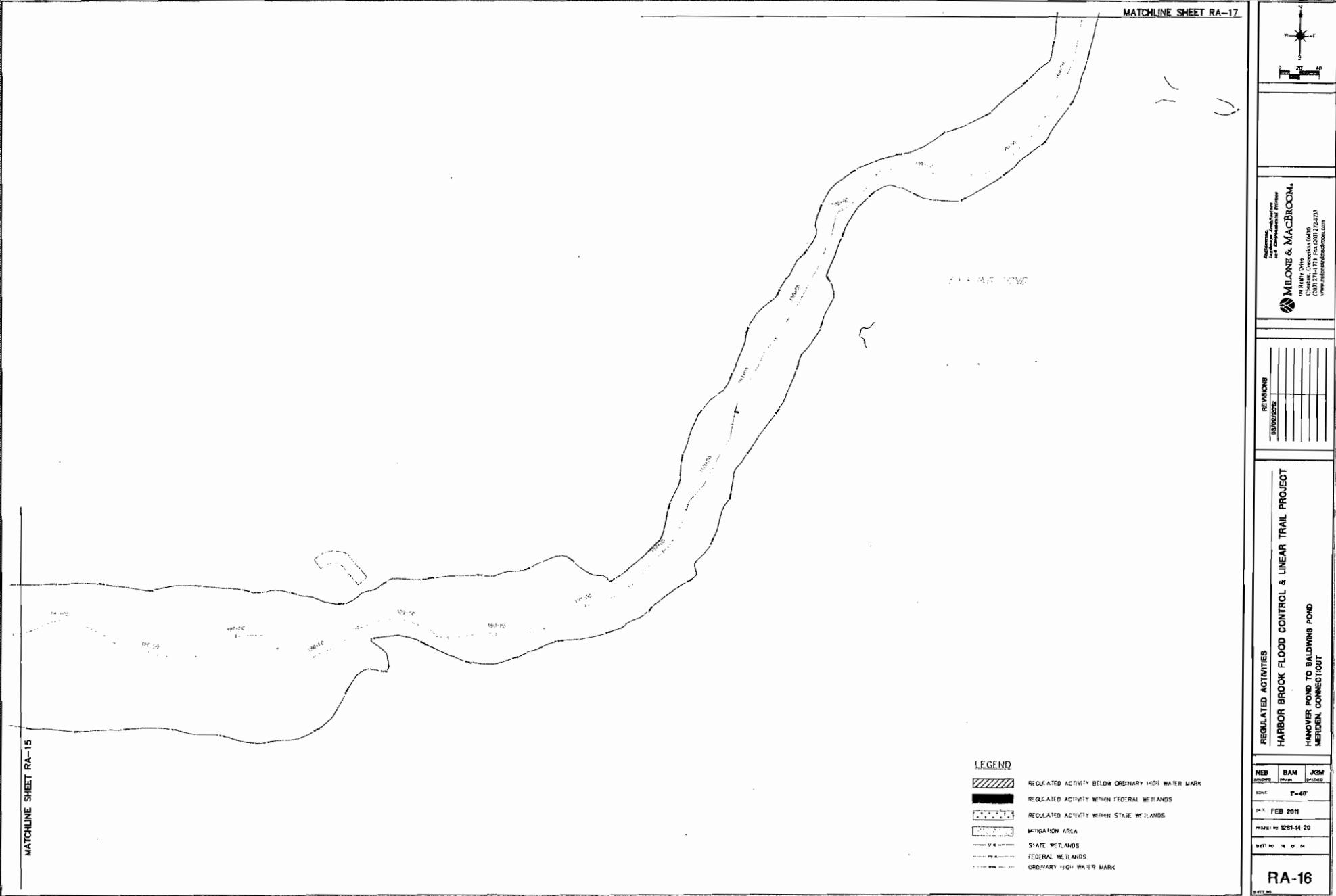
Proposed Condition	Regulated Activity ID	Activity	Activities Below Ordinary High Water Mark						Activities Above Ordinary High Water Mark						Mitigation Area (ft)	
			Permanent Area O.H.W.M. (ft)	Permanent Fill Volume (ft³)	Temporary Area O.H.W.M. (ft)	Temporary Fill Volume (ft³)	Linear feet of work on banks	Permanent Area Fed. W.L. (ft)	Permanent Fill Volume Fed. W.L. (ft³)	Temporary Area Fed. W.L. (ft)	Temporary Fill Volume Fed. W.L. (ft³)	Permanent Area State W.L. (ft)	Permanent Fill Volume State W.L. (ft³)	Temporary Area State W.L. (ft)	Temporary Fill Volume State W.L. (ft³)	
171-02 176-50 RA-70	Reopen Little Millbrook in Brookside Park															
171-05 176-75 RA-71	Right bank dredging downstream of Bird Street		450				57									
178-01 RA-72	Reopen Broad Street Bridge		1,250			100										
178-10 179-58 RA-73	Reinforce soil or fill bank upstream of Broad Street Bridge 10 ft high		325			85										
179-10 180-15 RA-74	Reopen river bank upstream of Broad Street and Baldwin Pond		900	523		93										
			Total Sheet RA-15 ac / cy	4,502	1,444	5	0	159	0	0	0	0	0	0	0	0
				0.11	53	+	0									0.150
																0.21

REGULATED ACTIVITIES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN POND
MERIDEN, CONNECTICUT

NEB BAW JCM
REVISIONS DRAWINGS CHECKED BY
SCALE 1=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SECTION NO. II-14
RA-15

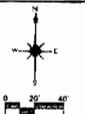
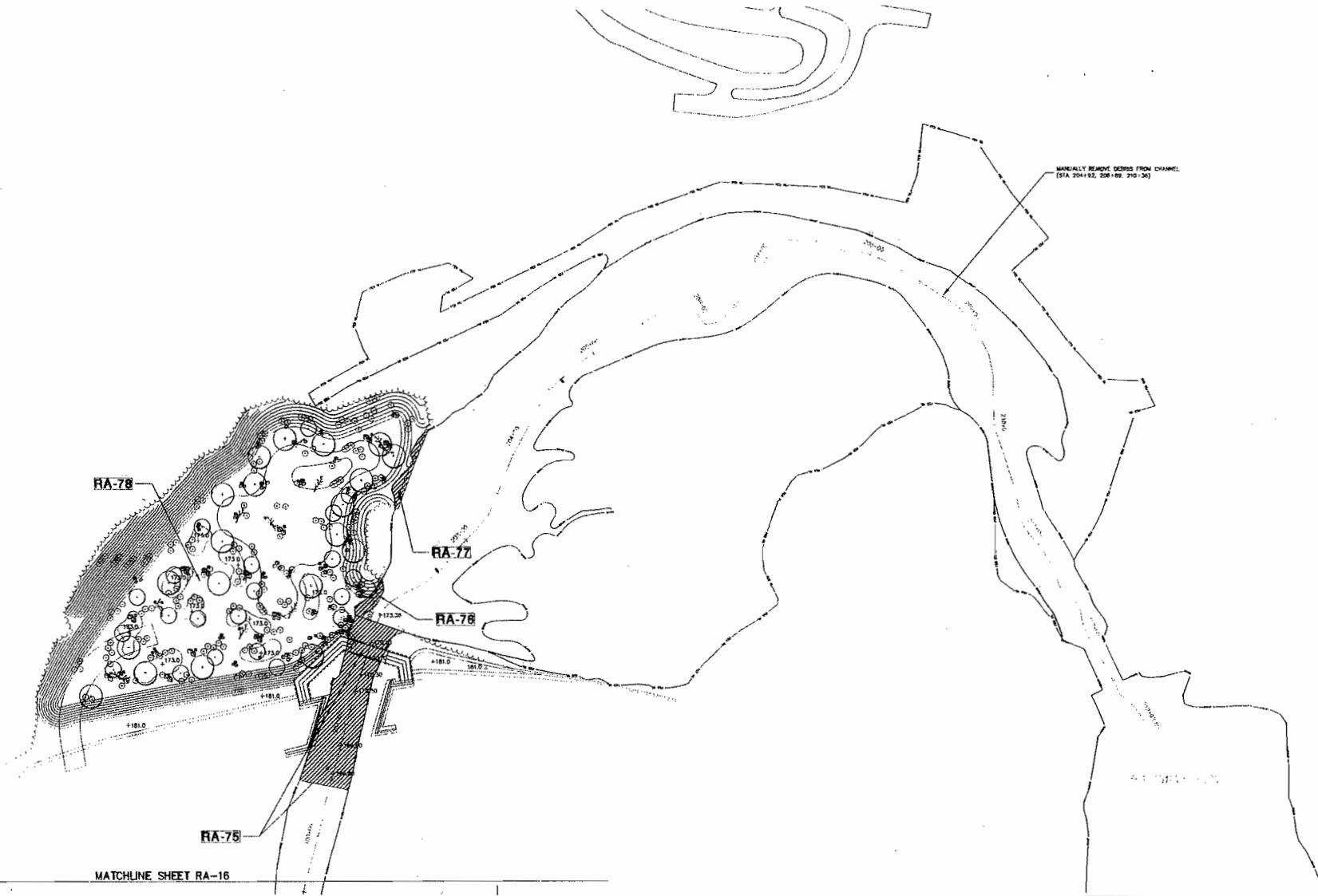
Engineering, Architecture
and Environmental Services
to Rain, Dune
Civic Contractors, Inc.
(203) 271-1111 Fax (203) 259-7777
www.miloneandmacbroom.com

MATCHLINE SHEET RA-17



LEGEND

The legend consists of six horizontal rows. Each row contains a small icon followed by a descriptive label. The icons are: 1) A diagonal hatching pattern labeled 'REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK'. 2) A solid black rectangle labeled 'REGULATED ACTIVITY WITHIN FEDERAL WETLANDS'. 3) A rectangle with a dotted pattern labeled 'REGULATED ACTIVITY WITHIN STATE WETLANDS'. 4) A rectangle with a small circle in each square labeled 'MIGRATION AREA'. 5) A rectangle with a small circle in the top-left square labeled 'STATE WETLANDS'. 6) A rectangle with a small circle in the bottom-left square labeled 'FEDERAL WETLANDS'. 7) A rectangle with a diagonal line from top-left to bottom-right labeled 'ORDINARY HIGH WATER MARK'.



MILONE & MACBROOM,
49 Reality Drive

200

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

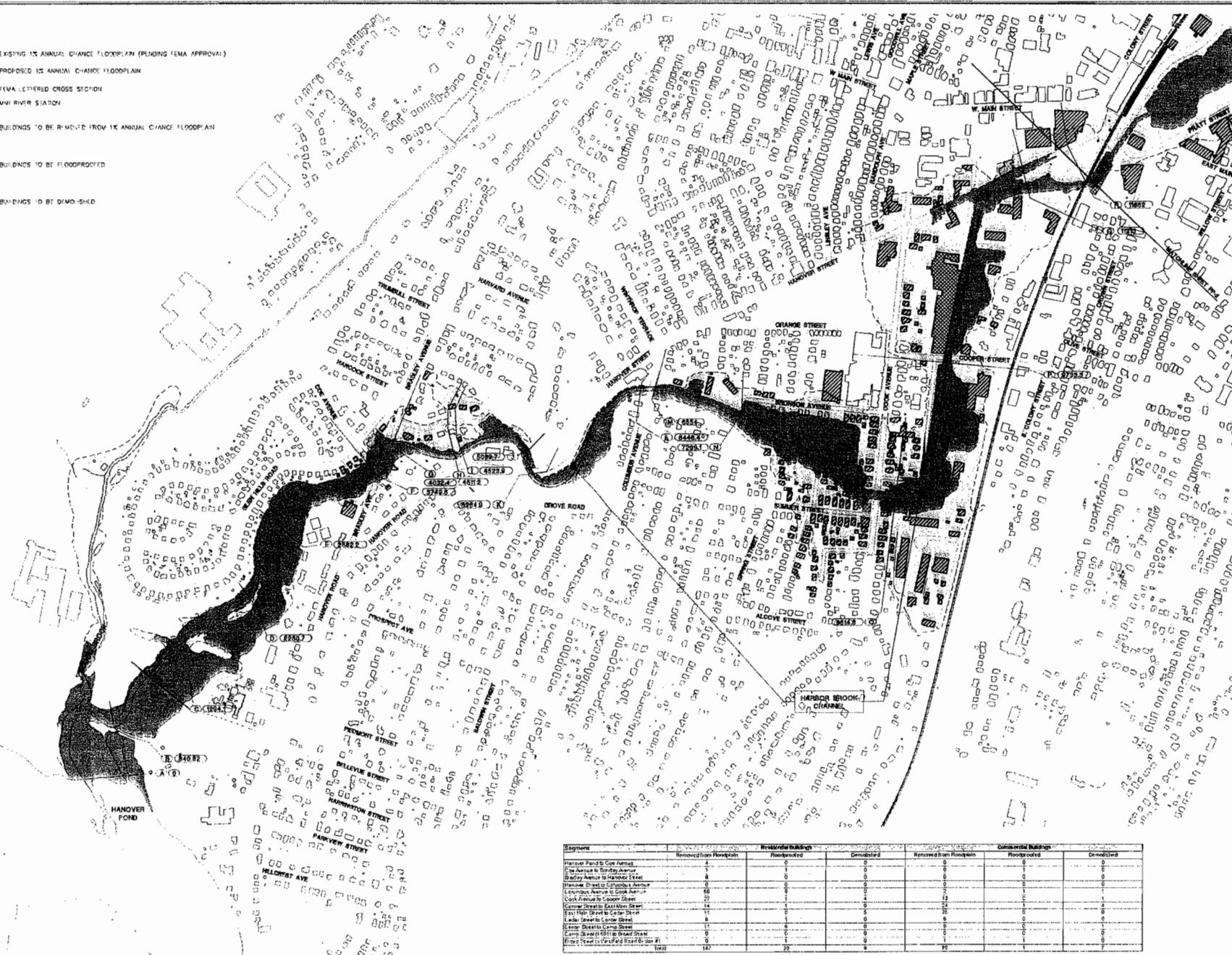
HARBOR BROOK FLOOD CONTR

BAM JCM
DRAFTED
T=40°
FEB 2011
no 1281-14-20
19 07 54

RA-17

LEGEND

- EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
- PROPOSED 1% ANNUAL CHANCE FLOODPLAIN
- FEMA LETTERED CROSS SECTION
- MINI RIVER STATION
- BUILDINGS TO BE REMOVED FROM 1% ANNUAL CHANCE FLOODPLAIN
- BUILDINGS TO BE FLOODPROOFED
- BUILDINGS TO BE DEMOLISHED



Segments	Residential Buildings		Commercial Buildings			
	Removed from Floodplain	Floodproofed	Demolished	Removed from Floodplain	Floodproofed	Demolished
Hanover Pond to Cole Avenue	4	0	0	0	0	0
Cole Avenue to Bridge Avenue	0	0	0	0	0	0
Bridge Avenue to Main Street	8	0	0	0	0	0
Main Street to Columbia Avenue	0	0	0	0	0	0
Columbia Avenue to Cook Avenue	68	0	0	0	0	0
Cook Avenue to Elm Street	1	0	0	0	0	0
Elm Street to East Main Street	14	1	5	0	0	0
East Main Street to Cedar Street	11	0	0	0	0	0
Cedar Street to Camp Street	11	0	0	0	0	0
Camp Street to Hillside Broad Street	0	0	0	0	0	0
Hillside Broad Street to Verdi Road	142	28	75	1	0	0

1% ANNUAL CHANCE FLOODPLAIN MAPPING

HARBOR POND TO BALDWIN POND
MIDDLEBURY, CONNECTICUT

REVISIONS

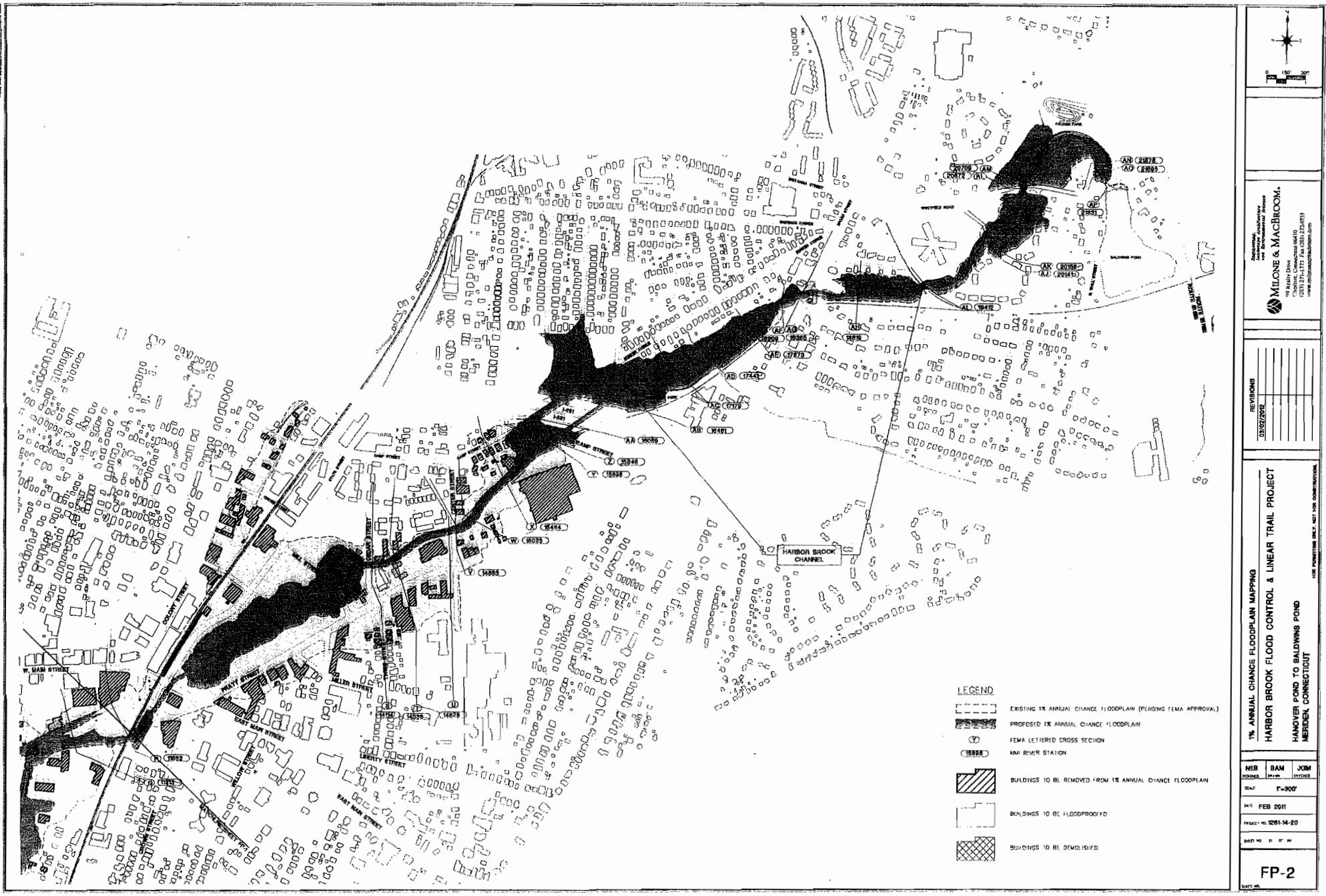
03/20/2012

Information contained herein is the sole property of BLMC

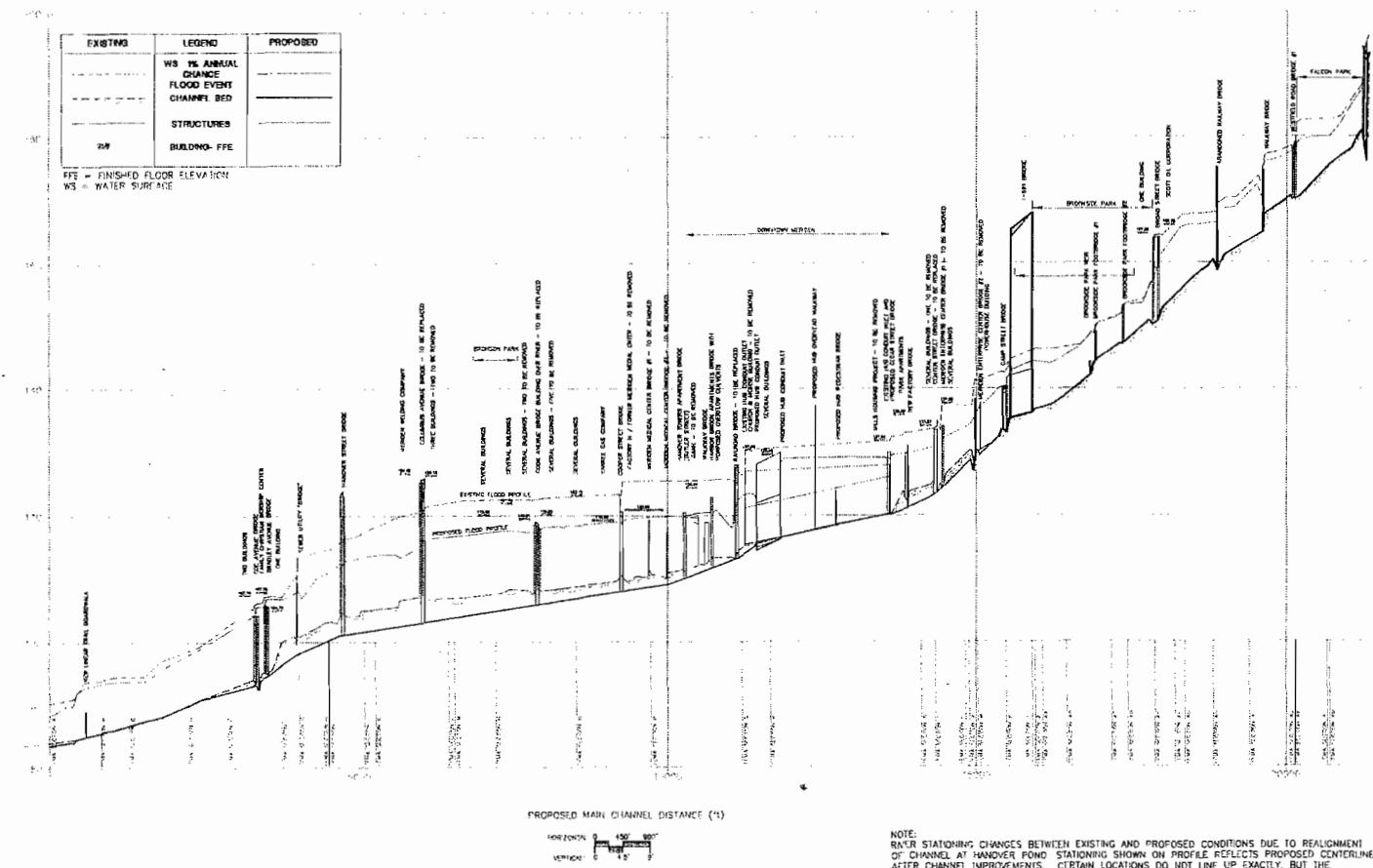
Milone & MacBroom, Inc.
Milwaukee, Wisconsin 53210
(414) 271-1711 Fax: (414) 271-2010
www.bltmco.com

FP-1

Sheet No.



EXISTING AND PROPOSED ELEVATION (1' NOV 29)

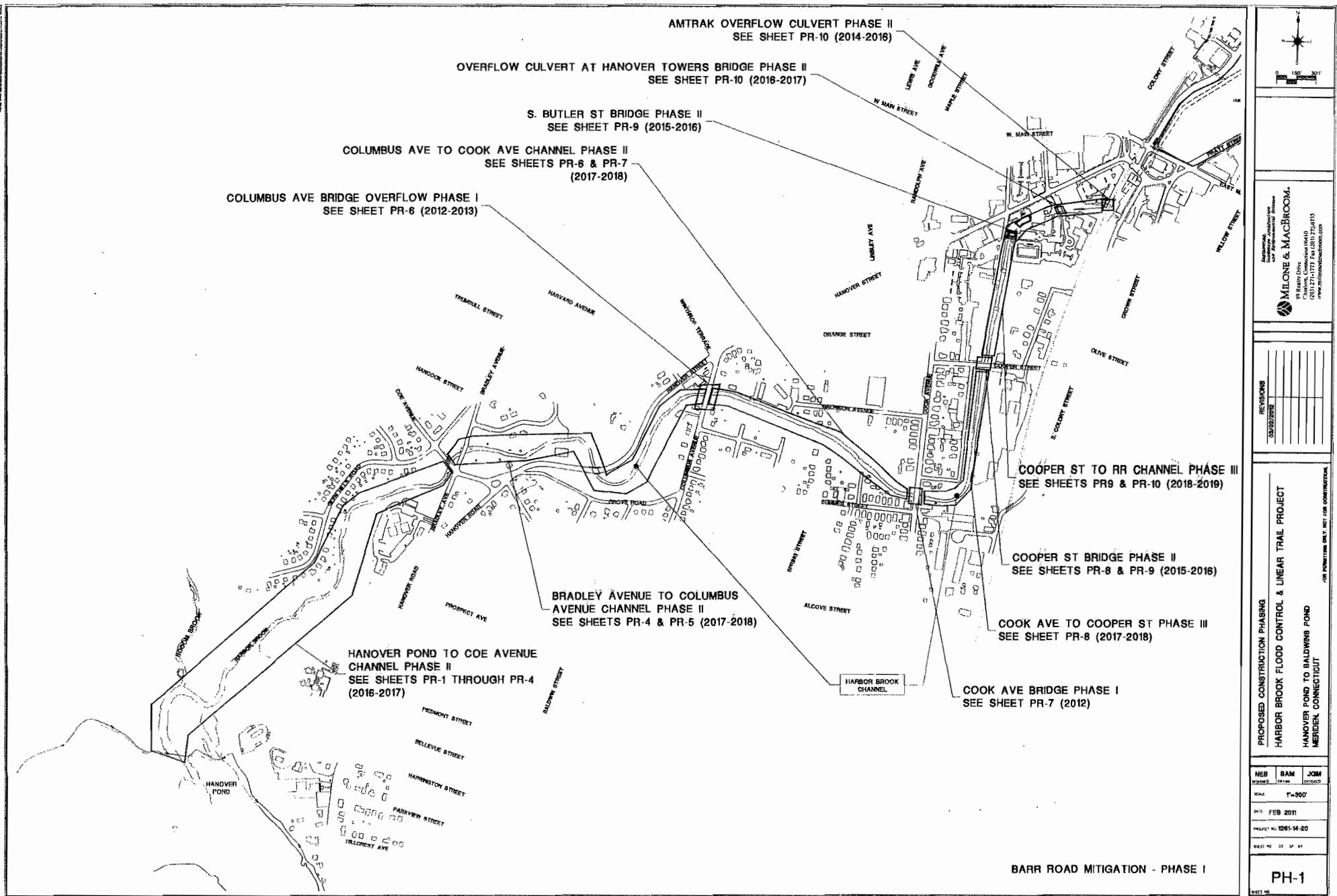


PROFILE - HARBOR BROOK CHANNEL
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN POND
MIDDLEBURY, CONNECTICUT

PROF-1

JSC JSC JOM
HOR: T-40°
VERT: T-0°
DATE: FEB 2011
PROJECT ID: 1281-H-20
DRAFT NO: 22 OF 22
DRAFT NO: 22 OF 22

MILONE & MACBRIDE,
Engineering, Architecture,
and Environmental Services
10 Main Street
Middlebury, Connecticut 06462
(203) 721-1771 Fax (203) 722-2403
www.miloneandmacbride.com



MILONE & MACBROOM
Engineering Consulting Services
Project Manager: Michael J. Kado
Client: City of New Haven
www.miloneandmacbroom.com

REVISIONS	CHANGES

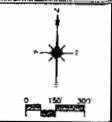
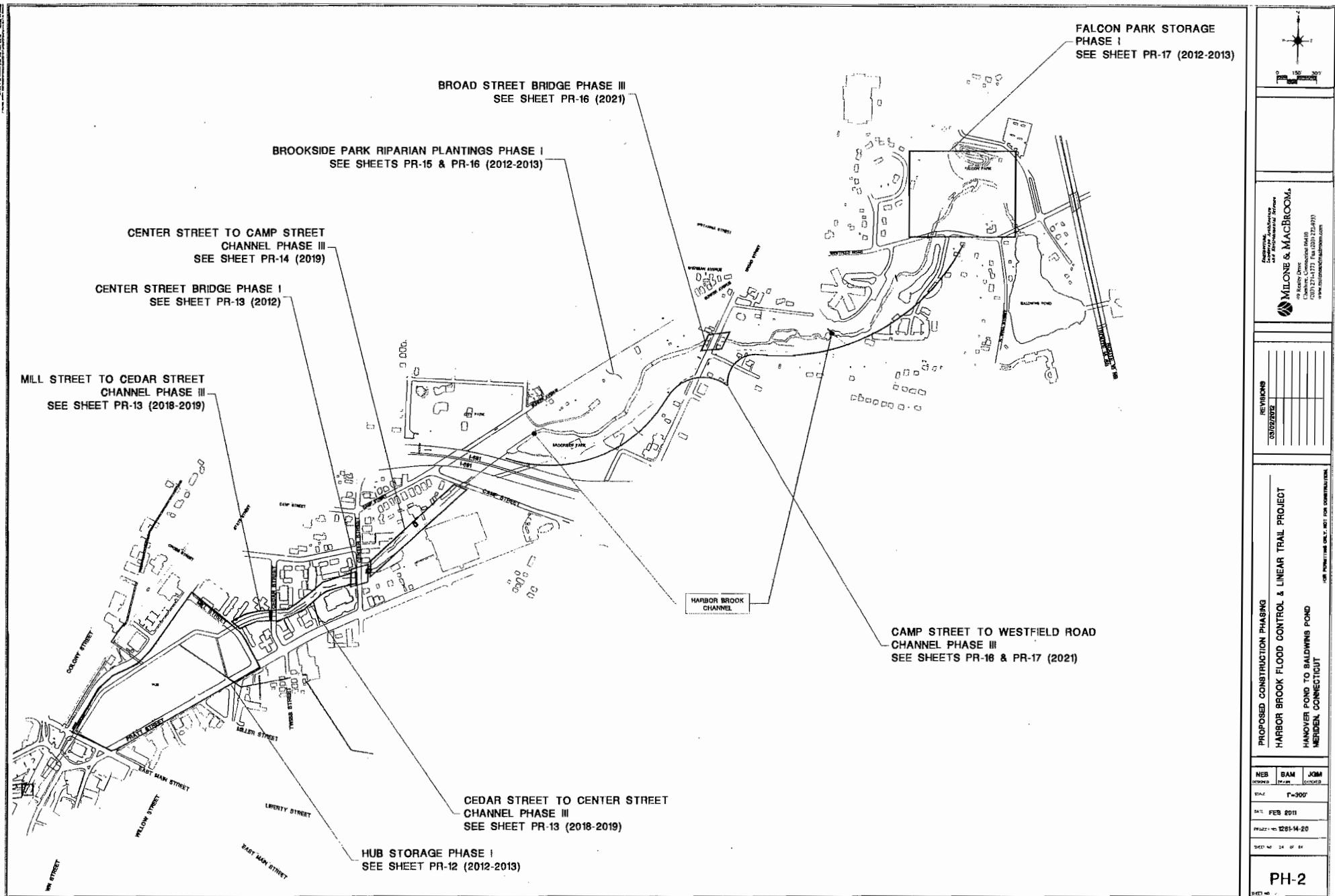
PROPOSED CONSTRUCTION PHASING
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
ON PROPERTY ONLY, NOT FOR CONSTRUCTION.

HANOVER POND TO BALDWIN POND
MERIDEN CONNECTICUT

NEB	BAM	JOM
SPRING 2011	SPRING 2011	DECEMBER
SCALE	F=300'	
DATE	FEB 2011	
PROJECT NO.	1261-14-20	
HEET NO.	23	OF 24
Sheet No.		

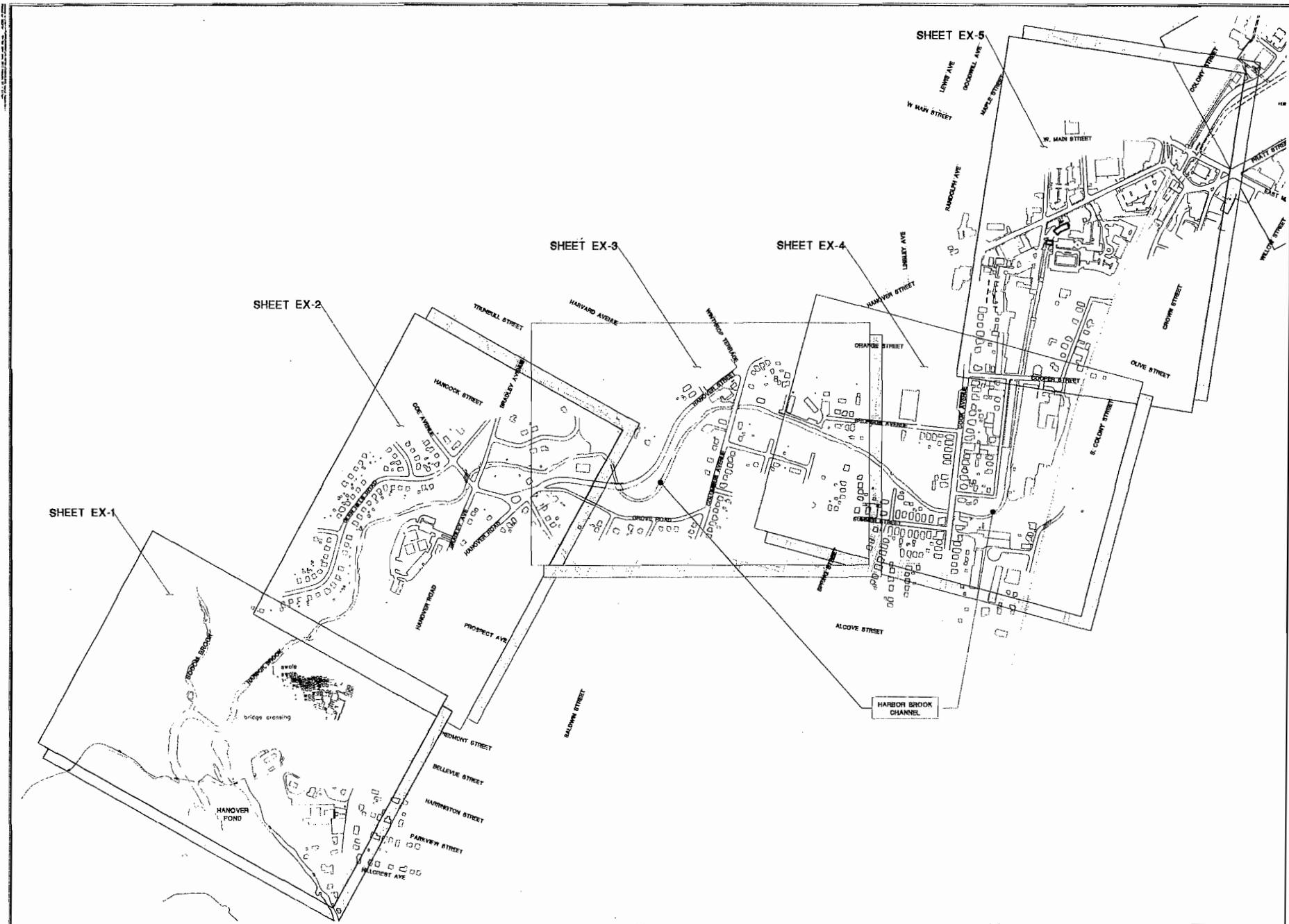
PH-1

BARR ROAD MITIGATION - PHASE I



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Engineering, Architecture
and Environmental Services
40 Main Drive
Chester, Connecticut 06411
(203) 271-4771 Fax (203) 272-3701
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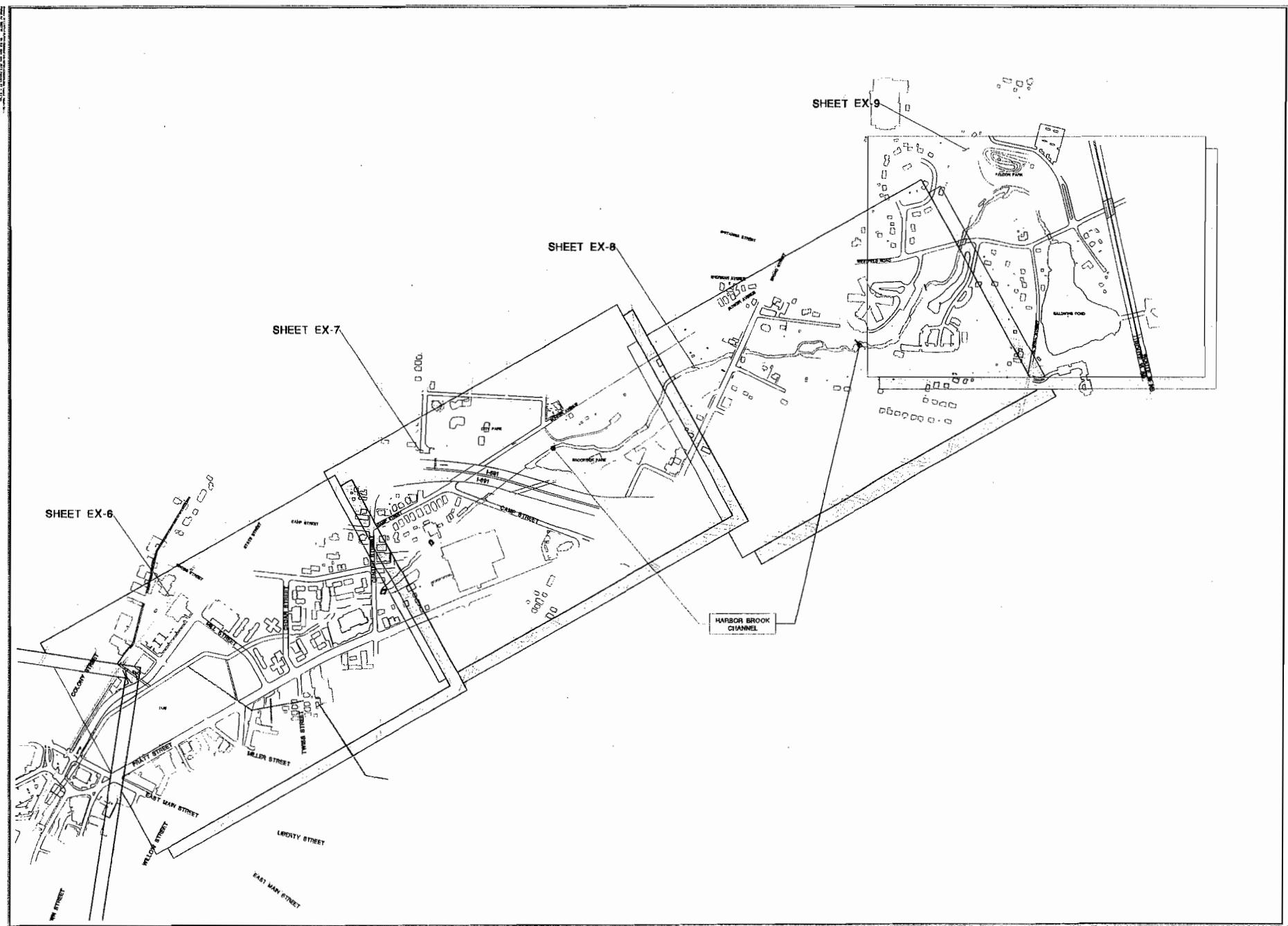
PRINTED ON
201102260953



INDEX - EXISTING CONDITIONS	HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT		
HANOVER POND TO BALDWIN POND			
NETBEE CONNECTICUT			
NEB	SAM	JOM	DRIVE
SCHEM	DRIVE	DRIVE	DRIVE
DATE	T=300'		
DATE	FEB 2011		
PROJECT NO. 1261-H-20			
DEPT NO. 24 OF 24			
IN-EX-1			

NORTH
0 150' 300'
EAST

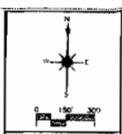
MILONE & MACBRADY,
Professional Construction
and Environmental Services
10 Bailey Street
Cheshire, Connecticut 06410
(203) 214-1171 Fax (203) 572-3703
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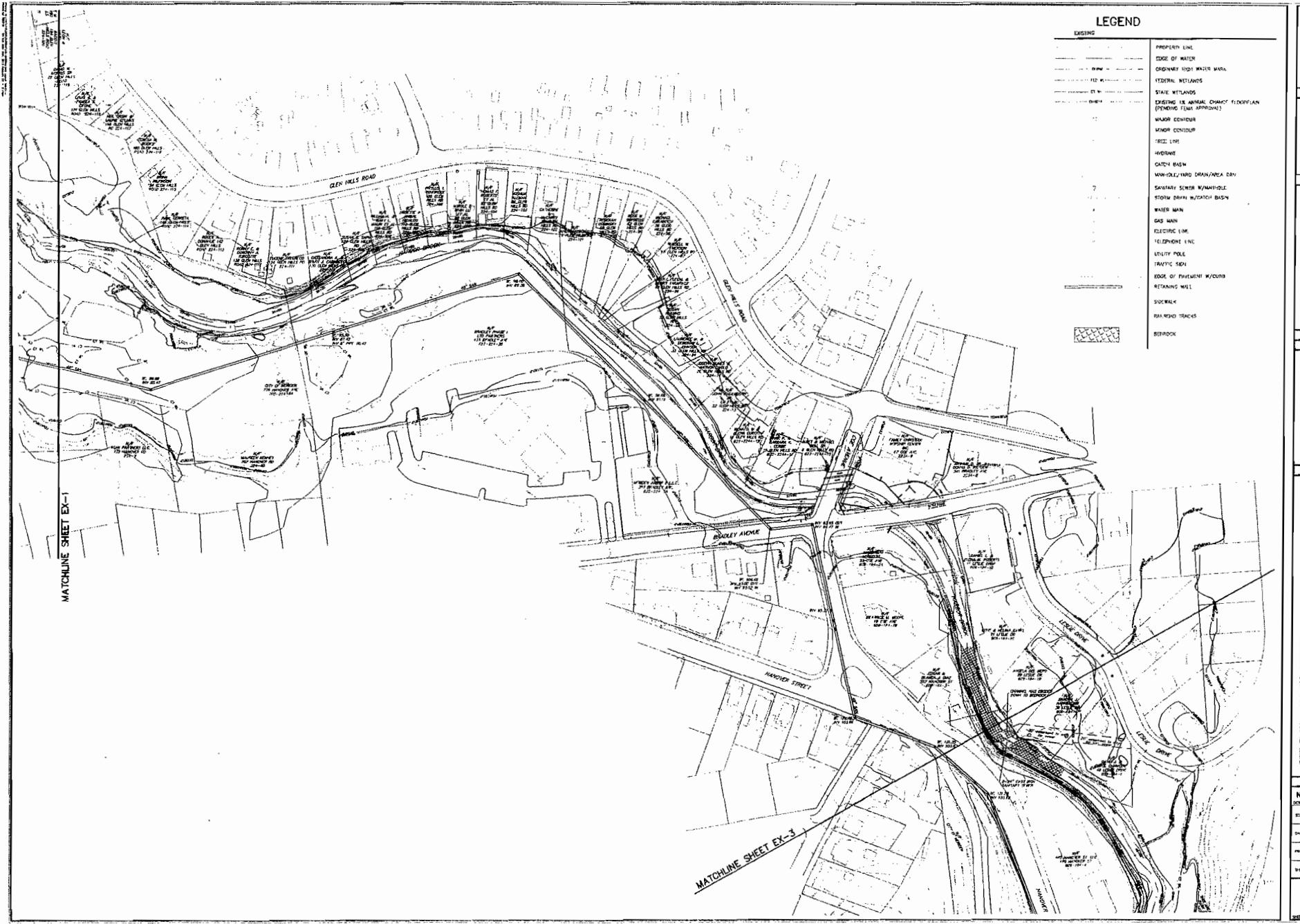
INDEX - EXISTING CONDITIONS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN POND
NEW ENGLAND, CONNECTICUT
NON-CONTRACTUAL

NEB	BAM	JCM
SCALES	SPANN	DISCLOSURE
DATE	FEB 2011	
PROJECT NO	1281-14-20	
DATA NO	23	ST. M.

IN-EX-2



HATCHLINE SHEET EX-1



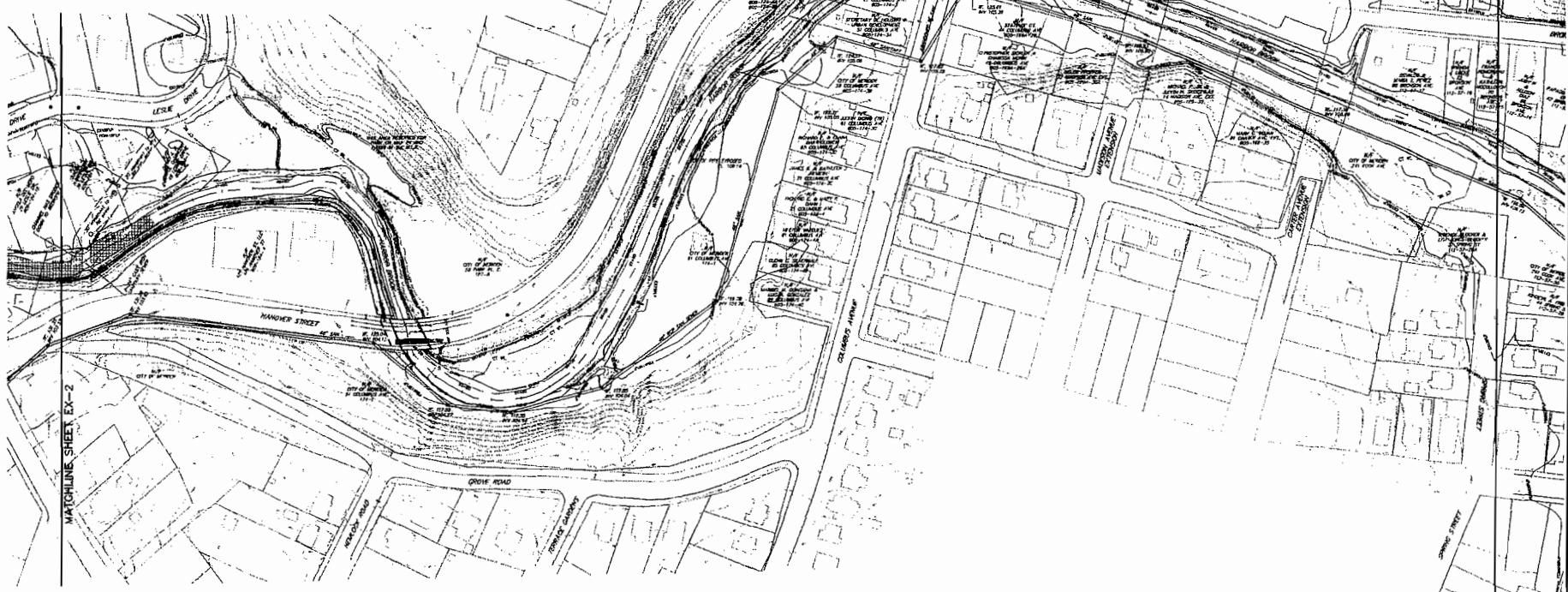
MILONE & MACHROOD,
Engineering, Architecture
and Environmental Services

16 Main Street
Chester, Connecticut 06411
(860) 521-1411 Fax (860) 524-3710
www.miloneandmachrood.com

NOTING ONLY, NOT FOR CONSTRUCTION

LEGEND

EXISTING	
PROPERTY LINE	
EDGE OF WATER	
ORDINARY HIGH WATER MARK	
FEDERAL RELAISSE	
STATE WILARDS	
EXISTING OR ANNUAL CHANGE TO COOP PLAN (PDRNG FEM A APPROVED)	
MAJOR CONTOUR	
MINOR CONTOUR	
FREE LINE	
HIGHPOINT	
CATCH BASIN	
MAN-CRAFTED DRAINS/PIPE	
SANITARY SEWER / manhole	
STORM DRAIN w/CATCH BASIN	
WATER MAIN	
GAS MAIN	
ELECTRIC LINE	
TELEPHONE LINE	
UTILITY POLE	
TRAFFIC SIGN	
EDGE OF PAVEMENT / CURB	
RETAINING WALL	
STENNA	
ANNUAL SERIES	
HYDROLOGY	



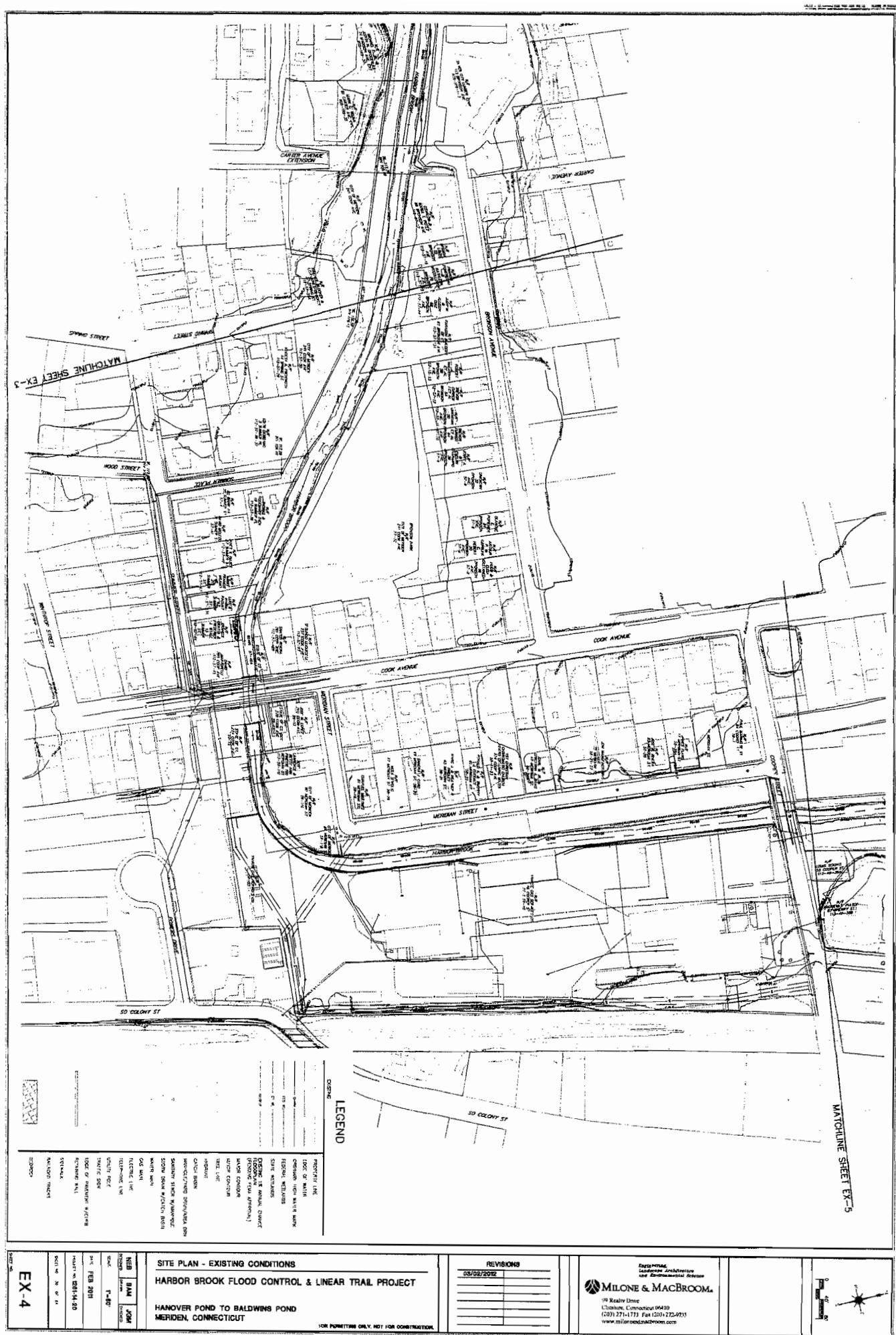
SITE PLAN - EXISTING CONDITIONS
HANOVER POND TO BALDWIN POND
HANOVER BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
MERIDEN, CONNECTICUT

NEB BAM JOM
OWNER: DATE: FEB 2011
SHEET NO. 201-A-20
PROJECT NO. 1251-A-20
SHEET NO. 20 21 22

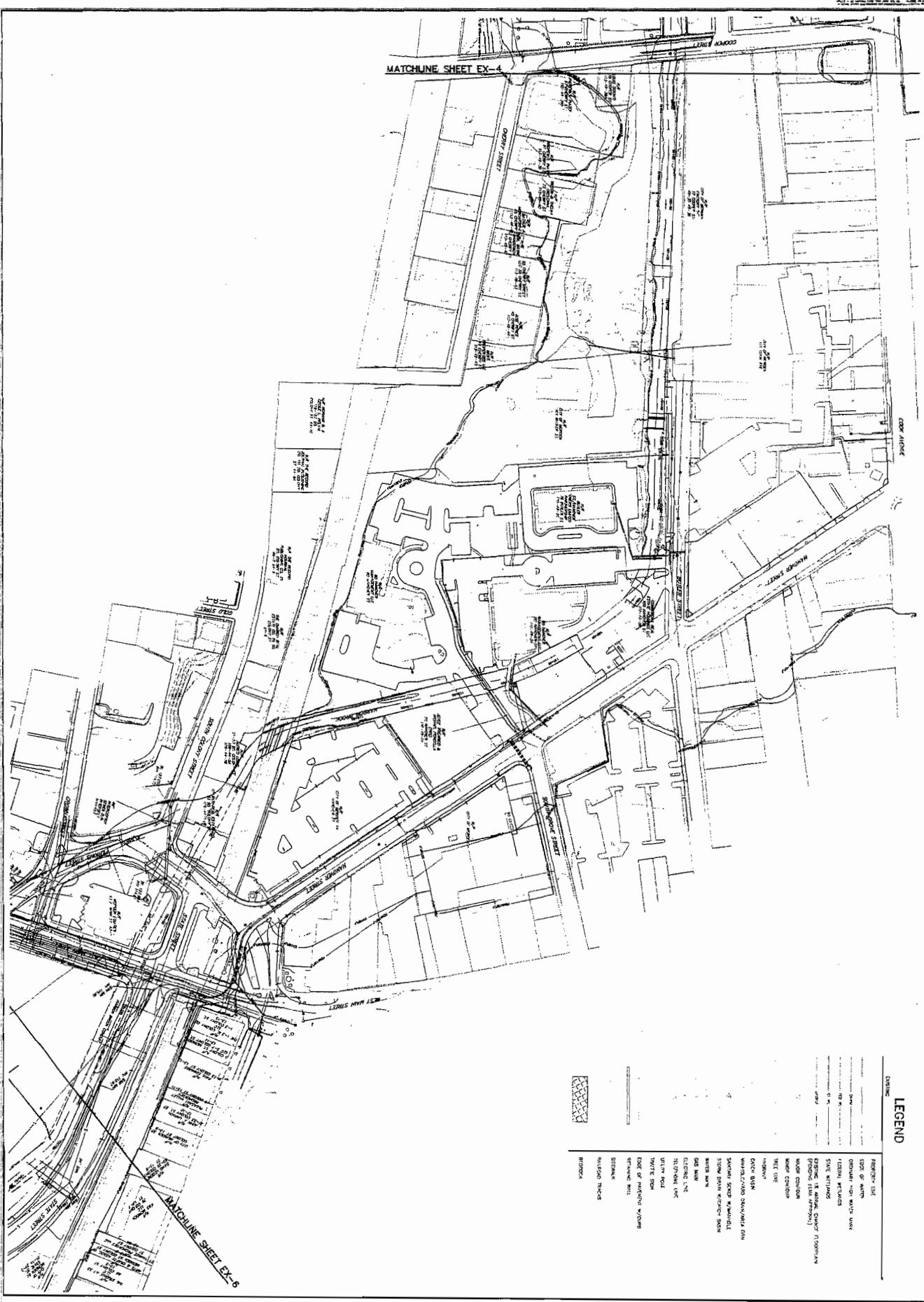
EX-3

SHEET NO.

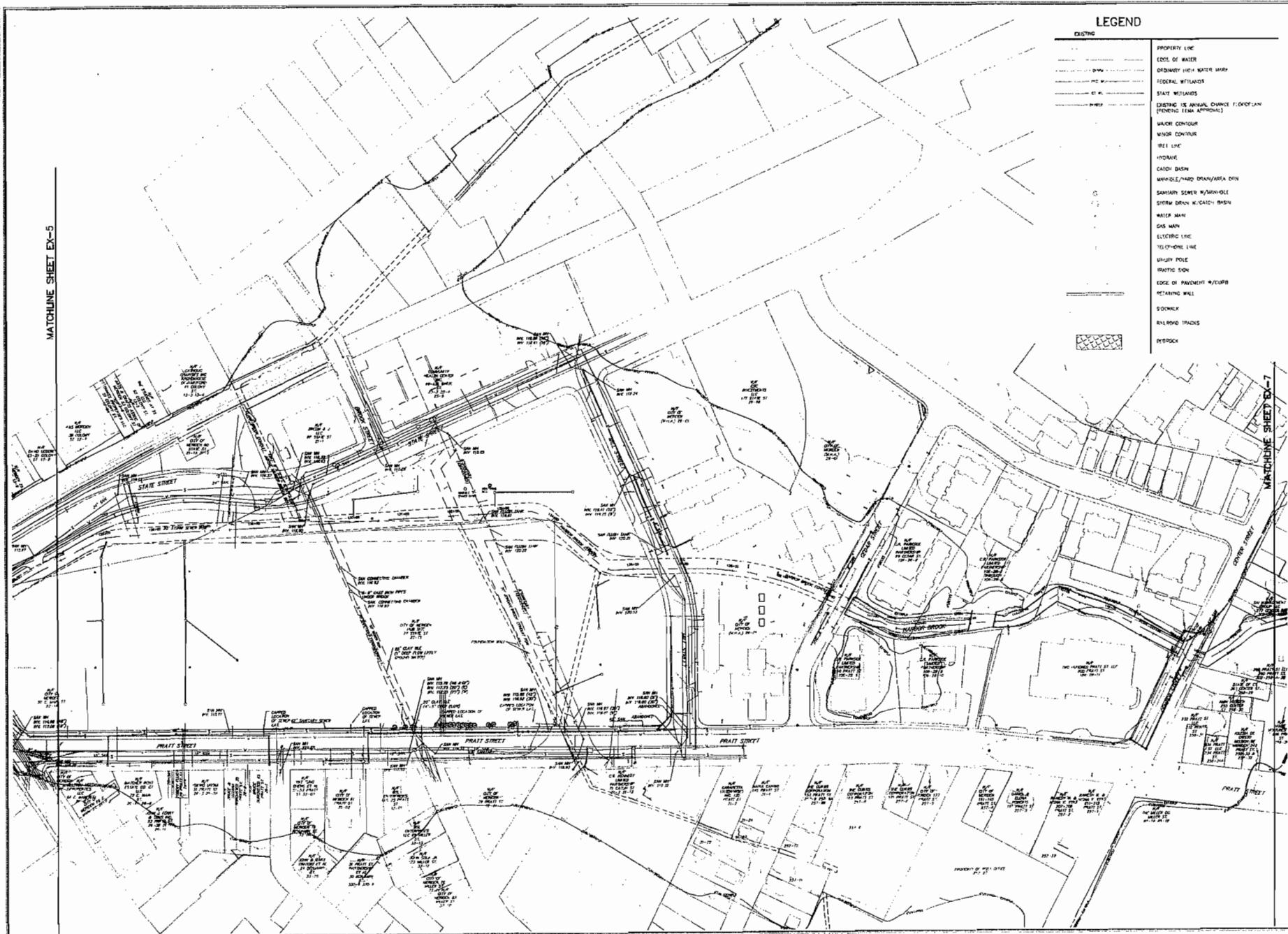




EX-4



MATCHLINE SHEET EX-5

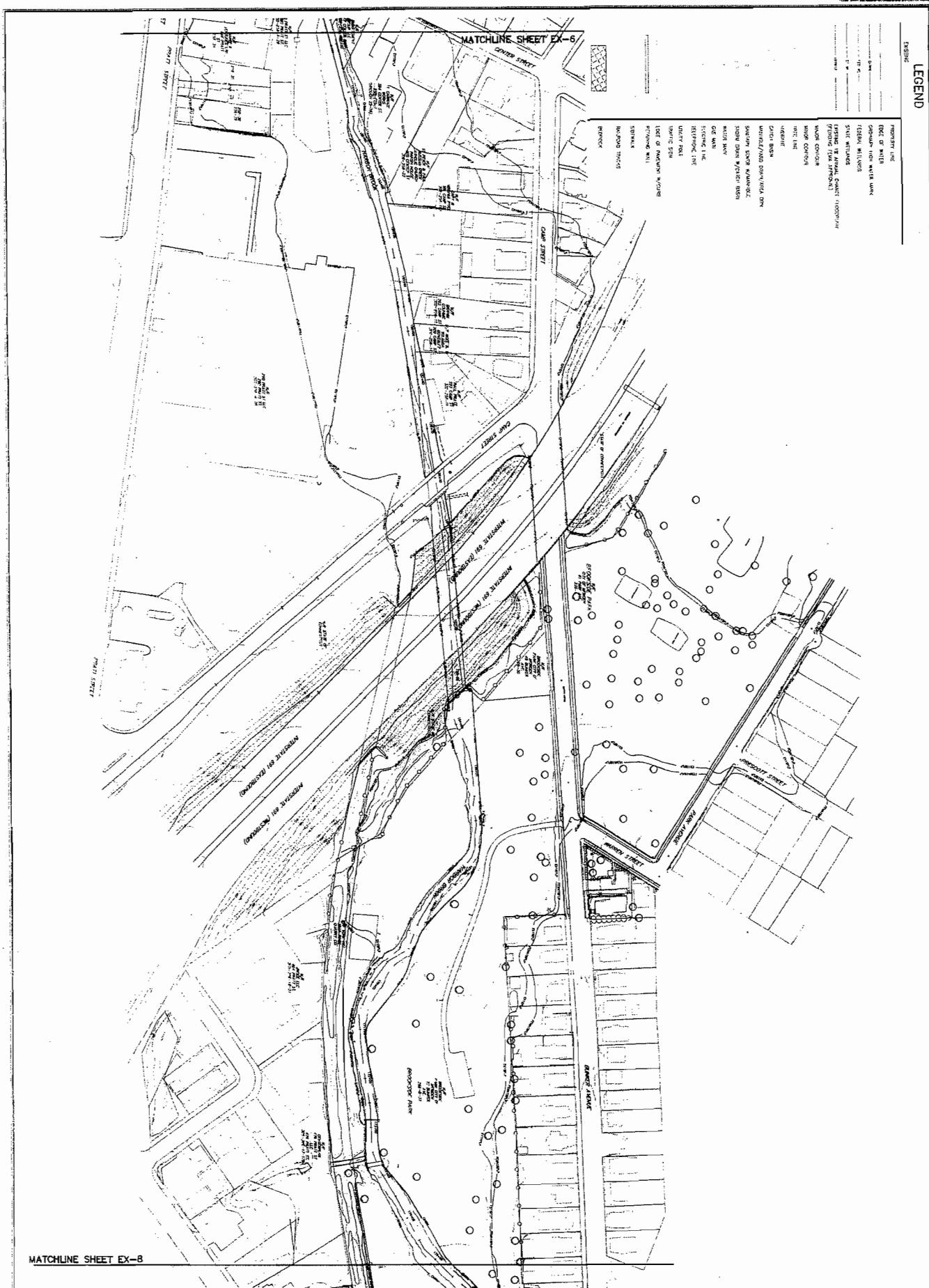


EX-6

NEB BAM JOM
Scales:
Scale: 1"=60'
Date: FEB 2011
Project No: 1261-14-20
Sheet No: 22 of 24

SITE PLAN - EXISTING CONDITIONS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER RIVER TO BALDWIN POND
MERRIDEN, CONNECTICUT
FOR BIDDING ONLY, NOT FOR CONSTRUCTION.





EX-7

14' 0" FT 1/4" = 100'

NEB	BAN	JOM
SOLO	1/40	

FEB 2011

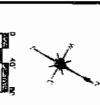
PLAT NO 1251-14-20

SITE PLAN - EXISTING CONDITIONS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY, NOT FOR CONSTRUCTION.

REVISIONS
03/02/2012

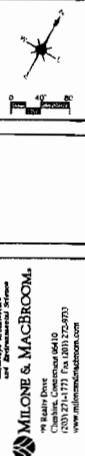
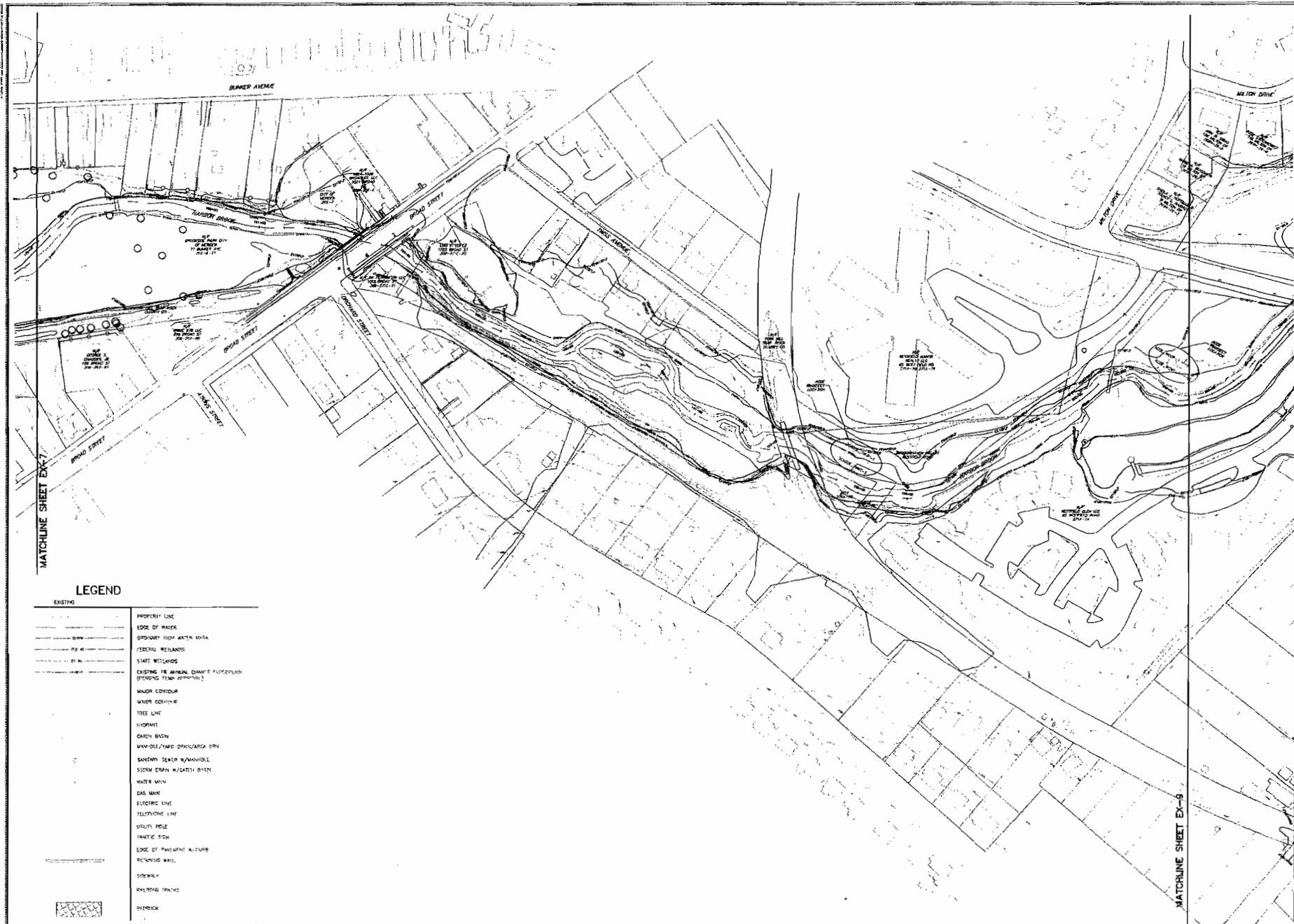
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99 Keeler Drive
Cheshire, Connecticut 06410
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~~MATCHLINE SHEET EX-7~~

LEGEND

PROPERTY LINE
 EDGE OF WATER
 GROWTH HIGH WATER MARK
 SPECIAL REACTIONS
 STATE WETLANDS
 EXISTING PER ANNUAL CHARTS (FEDERAL FEMA APPROVED)
 MAJOR CHANNEL
 WATER COURSES
 TREE LINE
 HORIZON
 CATCH BATH
 MAN-MADE AND SPONTANEOUS
 SAVANNA, SEAGRASS, KUHNHOLZ,
 STREAM, CRAN, OR CATCH BATH
 WATER MARK
 GAS MAIN
 ELECTRIC LINE
 TELEPHONE LINE
 EARTH POLE
 MARINE FISH
 EDGE OF PAVED AREA / CURB
 RETAINING WALL
 STREAM
 ROADBED TRACTS
 IMPRICK



MILONE & MACBROOM

 Engineers, Architects
 and Environmental Scientists
 170 Bellin Drive
 Cheshire, Connecticut 06410
 (203) 271-4177 Fax (203) 271-9703
www.miloneandmacbroom.com

REVISIONS

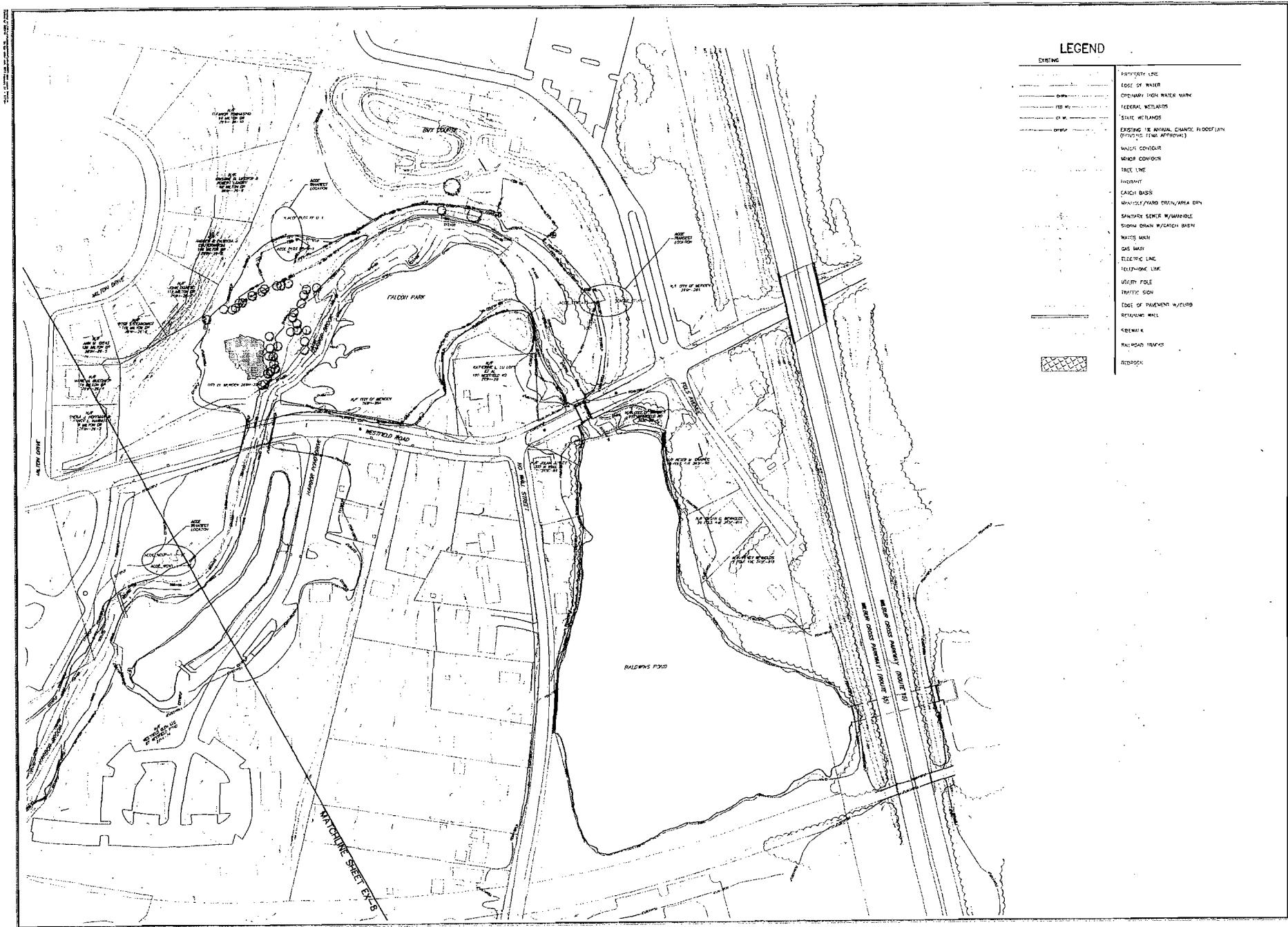
SITE PLAN - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER FORD TO BALDWIN FORD
MERIDEN, CONNECTICUT

NEB	BAN	JGM
DATED	RECEIVED	SEARCHED
SERIALIZED	FEB-50	
SFILED	FEB 20 1950	
FD-352 (Rev. 1-25-48)		
FEB 21 1950 1281-14-20		
REC'D NO. 34 OF 84		

EX-8



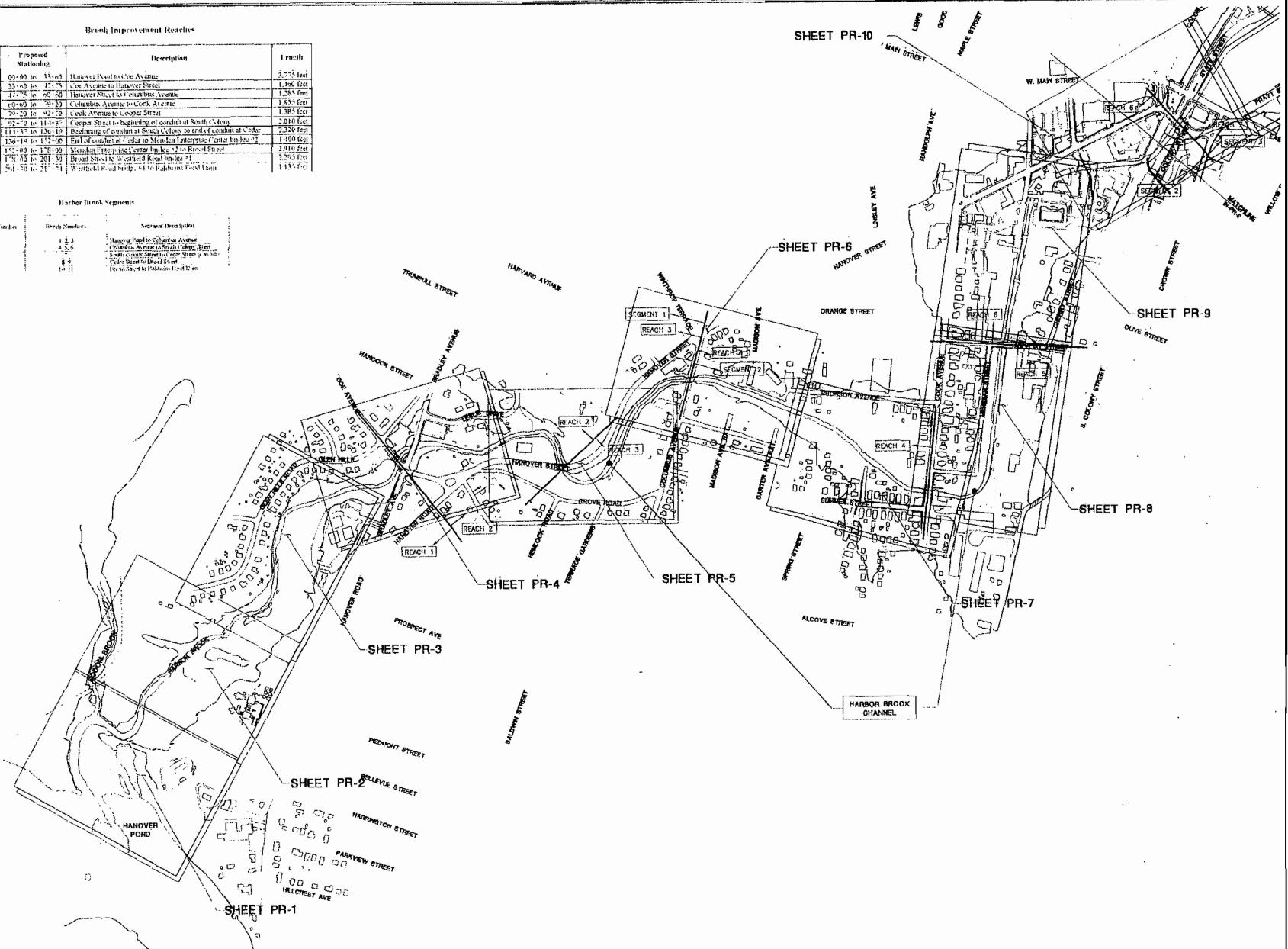
NOTE: THIS DRAWING IS FOR INFORMATION ONLY AND NOT FOR CONSTRUCTION.

Broad Improvement Reaches

Reach	Proposed Stationing	Description	Length
1	09-00 to 33-00	New Avenue to Ace Avenue	3,777 feet
2	33-00 to 35-00	New Avenue to Broad Street	1,464 feet
3	35-75 to 40-00	Hanover Street to Charles Avenue	1,383 feet
4	40-00 to 49-50	Charles Avenue to Cooper Avenue	1,835 feet
5	49-20 to 52-78	Cooper Avenue to Cooper Street	1,393 feet
6	92-70 to 111-53	Cooper Street to beginning of conduit at South Calem	2,010 feet
7	111-53 to 120-00	Beginning of conduit at South Calem to end of conduit at Cedar Street	2,320 feet
8	120-10 to 132-00	End of conduit at Cedar Street to Hanover Street Center bridge #1	2,320 feet
9	132-00 to 136-00	Hanover Street Center bridge #1 to Broad Street	2,910 feet
10	136-00 to 161-00	Broad Street to Noddle Road bridge #1	3,705 feet
11	161-00 to 174-00	W. Noddle Road bridge #1 to Baldwin's Pond Union	1,175 feet

Harbor Brook Segments

Segment Number	Reach Numbers	Segment Description
1	1-3	Hanover Park to Charles Avenue
2	4-5	Charles Avenue to Cooper Avenue
3	5-6	Cooper Avenue to Cooper Street, while
4	6-11	Cooper Street to Broad Street
5		From Broad to Baldwin's Pond Union



INDEX - PROPOSED CONDITIONS AND SAE CONTROLS

HANOVER POND TO BALDWINS POND

MERIDEN, CONNECTICUT

NEB	RAM	JOM
DRAFT	Printed	Edited
SEAL		T-300'
SITE		FEB 2011
PLATE NO.		1261-14-20
PRINT NO.		04
DATE		02/02/2011

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Milone & MacBroom

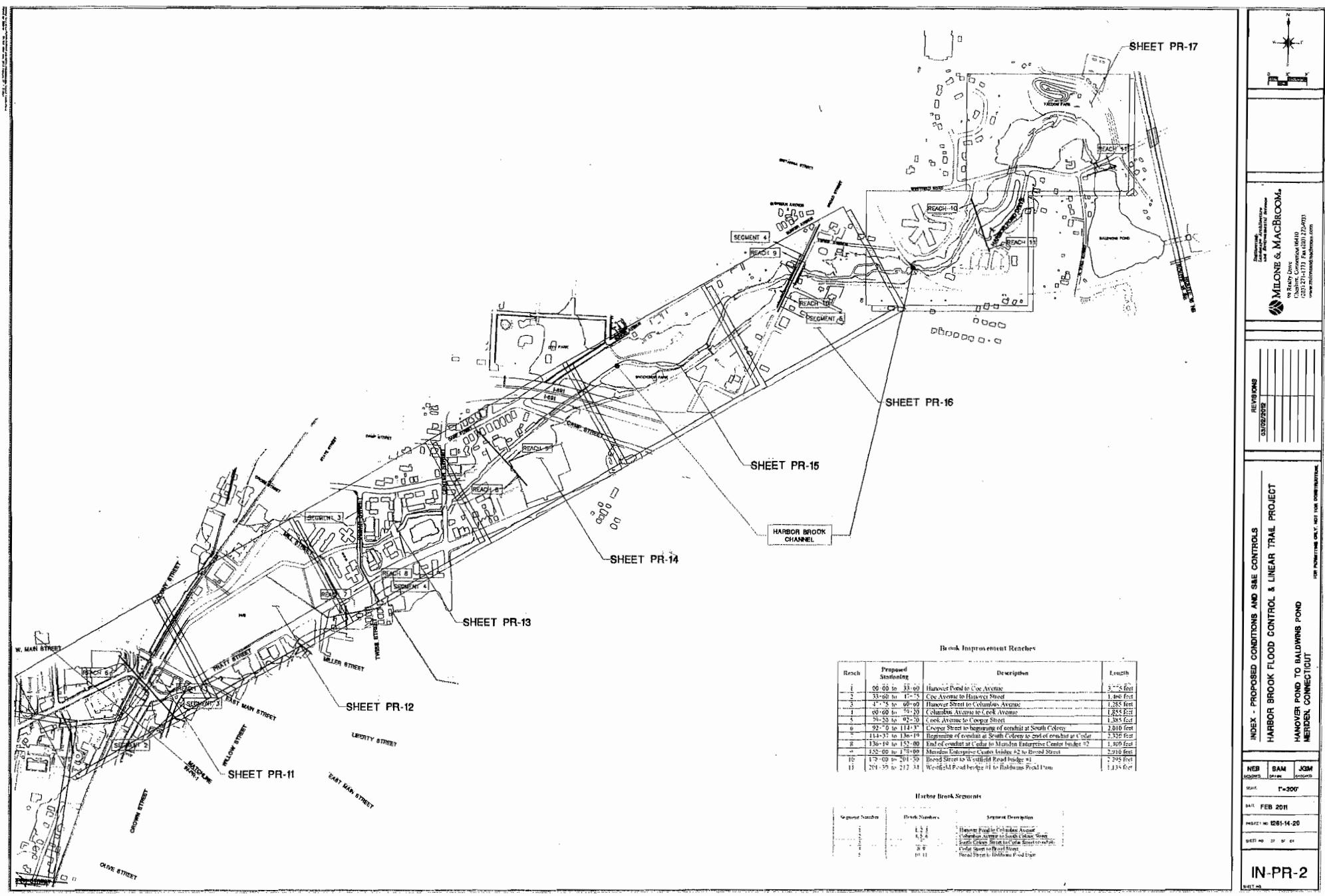
Engineering
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and Construction
Services

Facility Site
(203) 271-1773 Fax (203) 272-3773

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REVISIONS	02/02/2011
INDEX	02/02/2011

FOR PRACTICE ONLY, NOT FOR CONSTRUCTION



Bench Improvement Reached

Resch	Proposed Streetname	Description	Length
1	66 - 69 to 33 - 69	Hawthorne Park to Cox Avenue	3.752
	33 - 69 to 60 - 69	Cox Avenue to Cooper Street	1.480
2	71 - 74 to 75 - 79	Cooper Street to Columbia Avenue	1.000
3	69 - 69 to 75 - 79	Columbia Avenue to Cox Avenue	1.855
4	76 - 20 to 92 - 20	Cox Avenue to Cooper Street	1.385
5	92 - 20 to 114 - 20	Cooper Street to beginning of culvert at South Colony	2.010
6	92 - 20 to 114 - 20	Cooper Street to beginning of culvert at South Colony	2.010
7	130 - 20 to 130 - 60	Beginning of culvert at South Colony to 200' of culvert at Canal	2.320
8	130 - 20 to 130 - 60	Beginning of culvert at Canal to Ridge Road	1.000
9	152 - 00 to 171 - 00	Ridge Road to beginning of culvert at Canal	1.800
10	171 - 00 to 201 - 20	Beginning of culvert at Canal to Ridge Road	2.295
11	201 - 20 to 217 - 20	Broad Street to Ridge Road bridge	2.295
12	214 - 35 to 217 - 20	Wesfield culvert bridge to Ridge Road	1.135

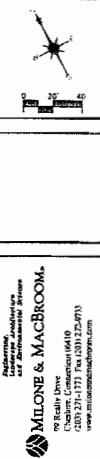
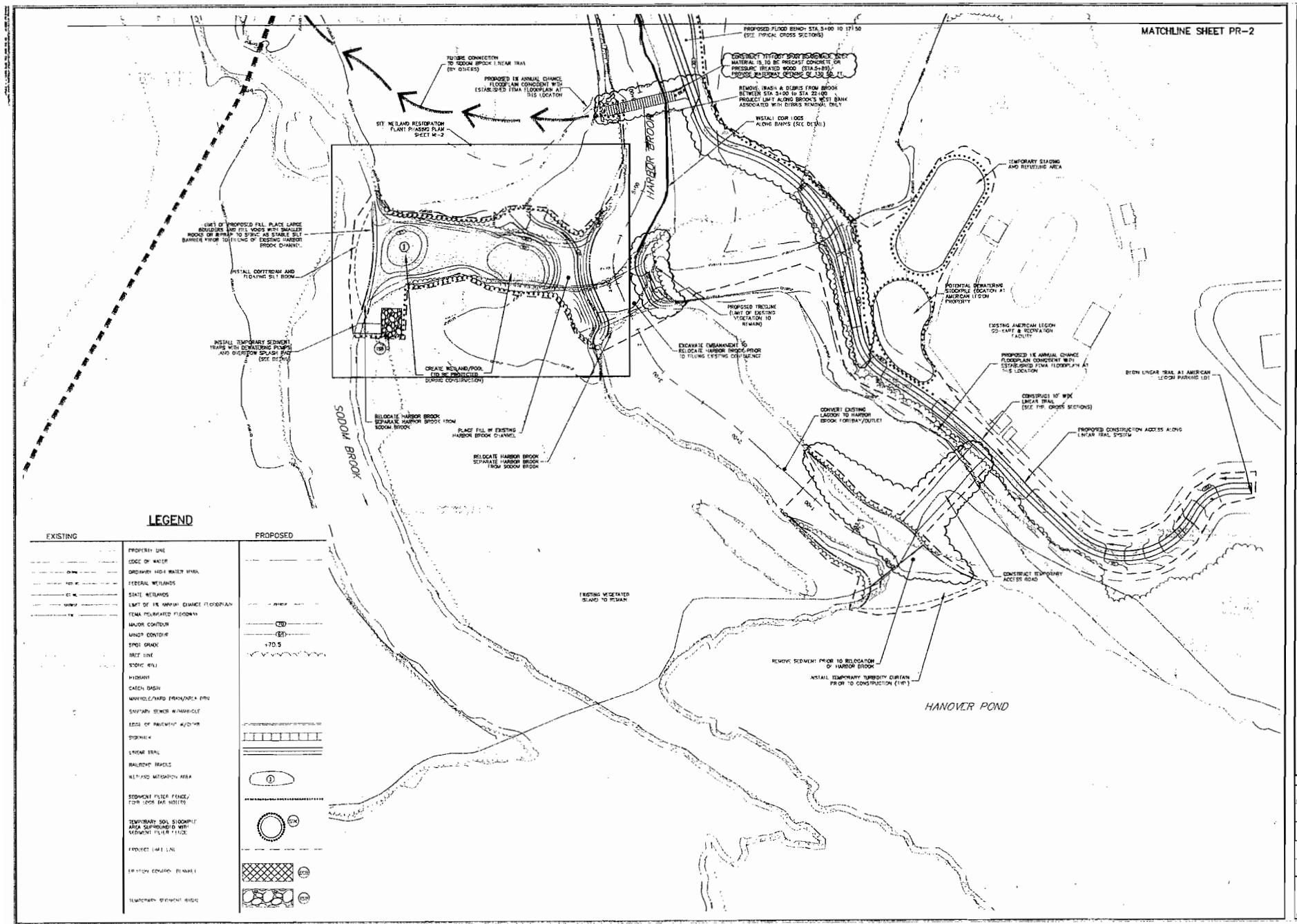
Harbor Brook Segment

Segment Number	Beth Number	Segment Description
1	1, 2, 3	Hanover Street In Columbia Avenue
2	4, 5, 6	Columbia Avenue In South Colfax Street
3	7, 8, 9	South Colfax Street In Colfax Street Extension
4	10, 11	Colfax Street To Broad Street
5		Broad Street To Holliston Park Light

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN POND
MERIDEN, CONNECTICUT

NEB	SAM	JGM
SEARCHED	SERIALIZED	INDEXED
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FEB 300		
DATE FEB 2011		
PROJ# NO 1281-14-20		
SEARCHED BY 37 OF 64		

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**ROBBINS,
LAWRENCE AND
ASSOCIATES, ATTORNEYS
AT LAW**

MILLO
reality
Cheshire,
(0803) 271-
www.millo

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03/02/2012				

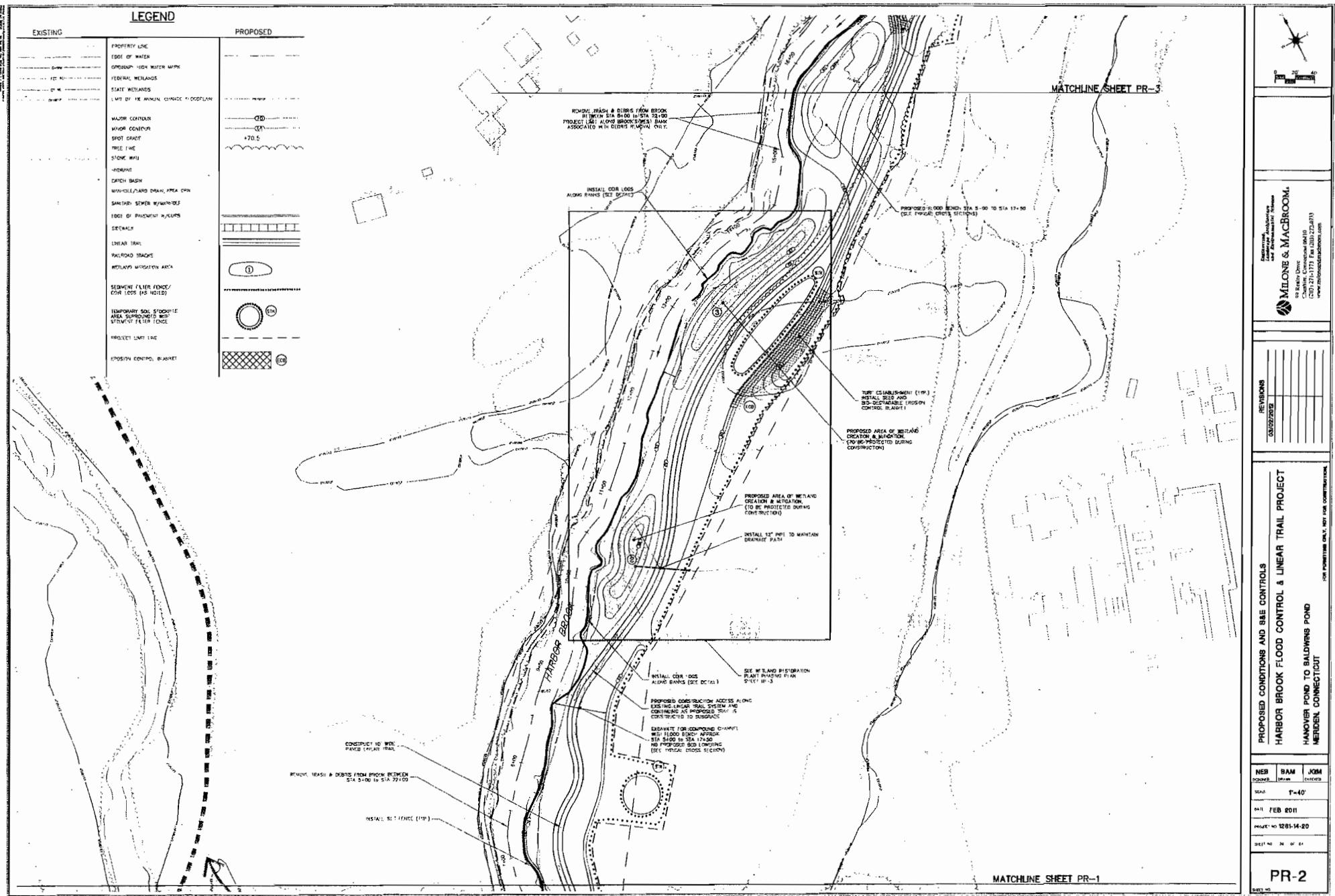
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

PROPOSED CONDITIONS AND SITE CONTROLS

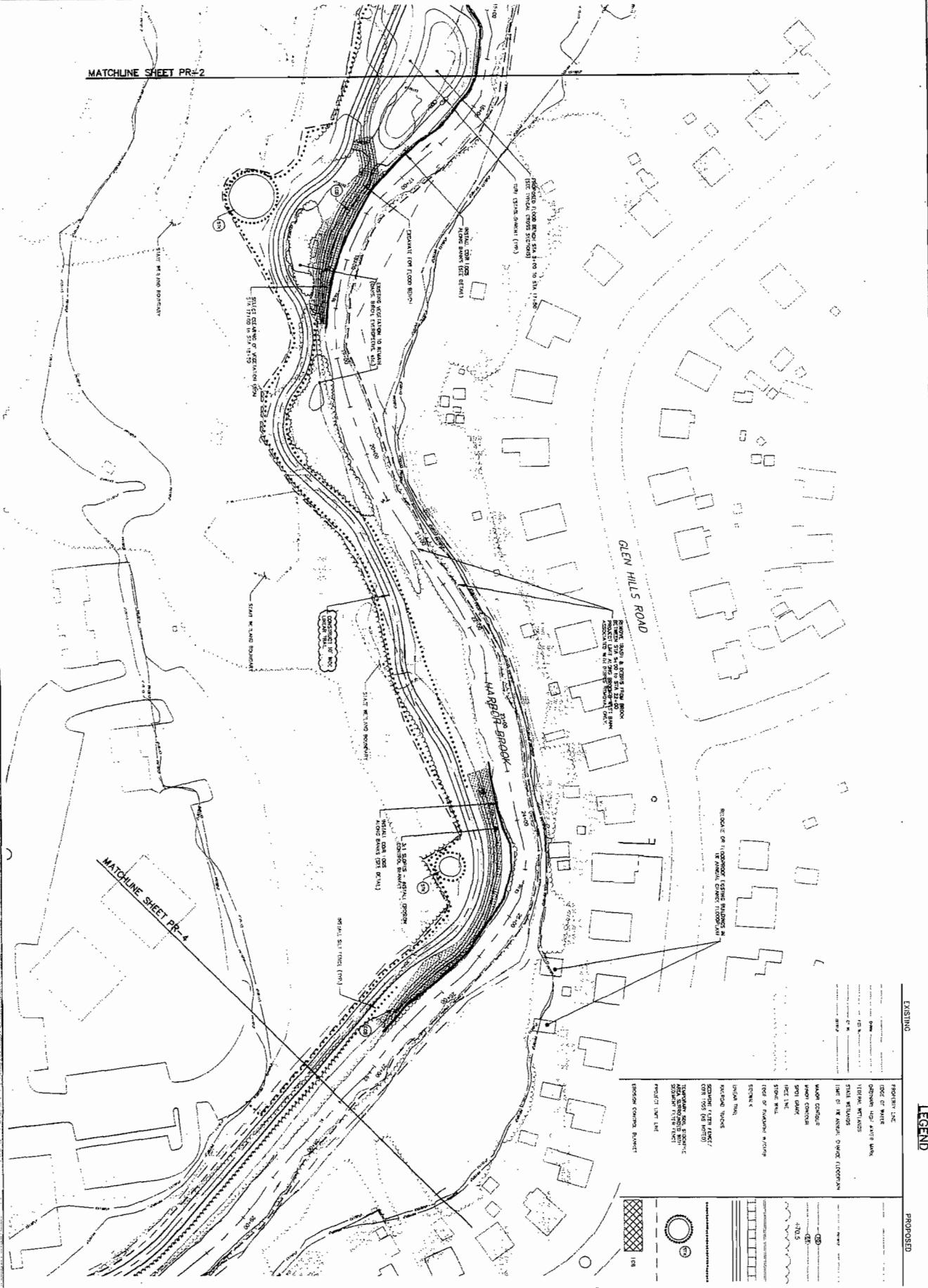
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PLANNING USE ONLY, NOT FOR CONSTRUCTION

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PROJ NO 1261-14-20		
SHEET NO 38 OF 48		
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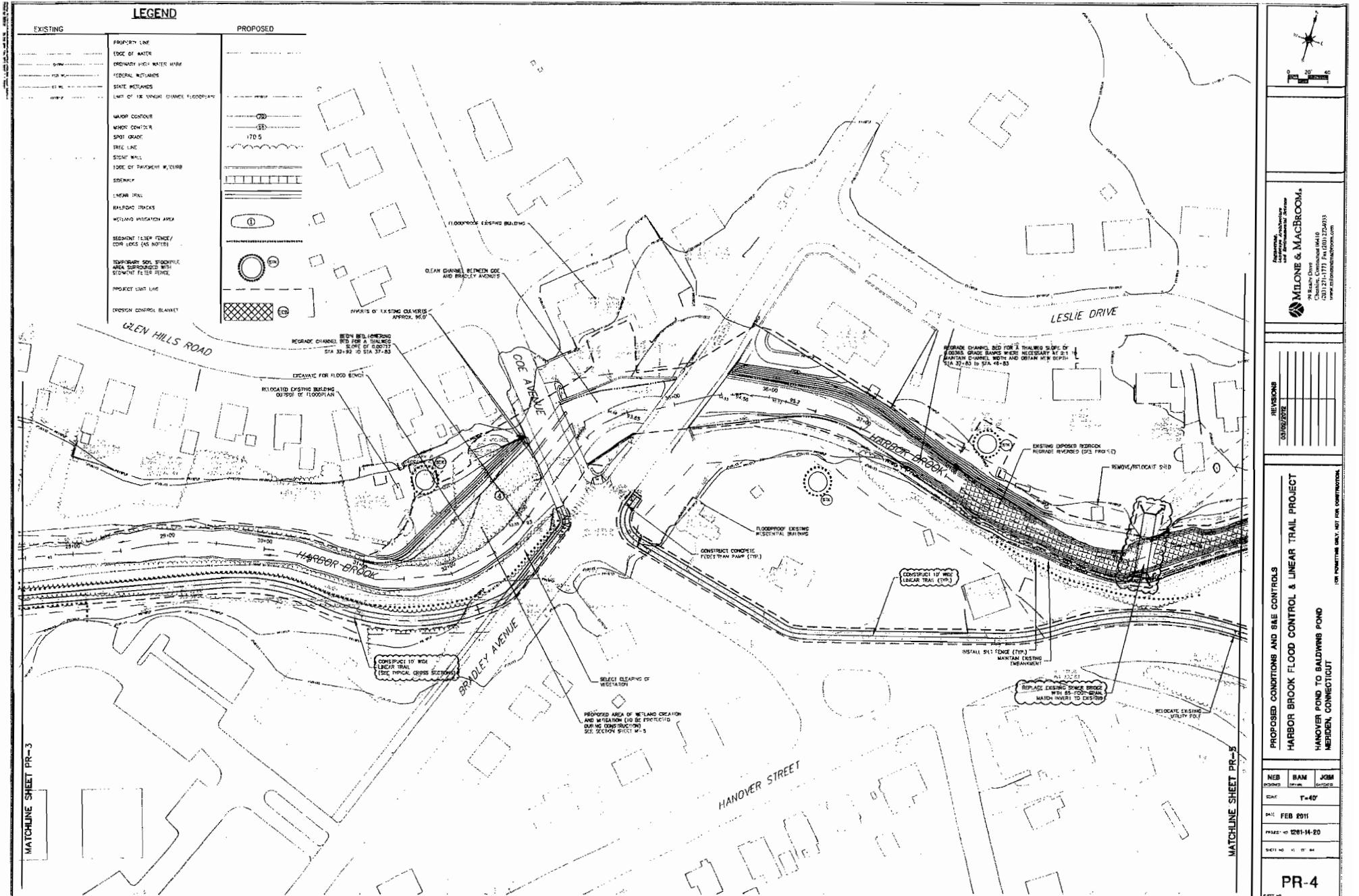


MATCHLINE SHEET PR-2

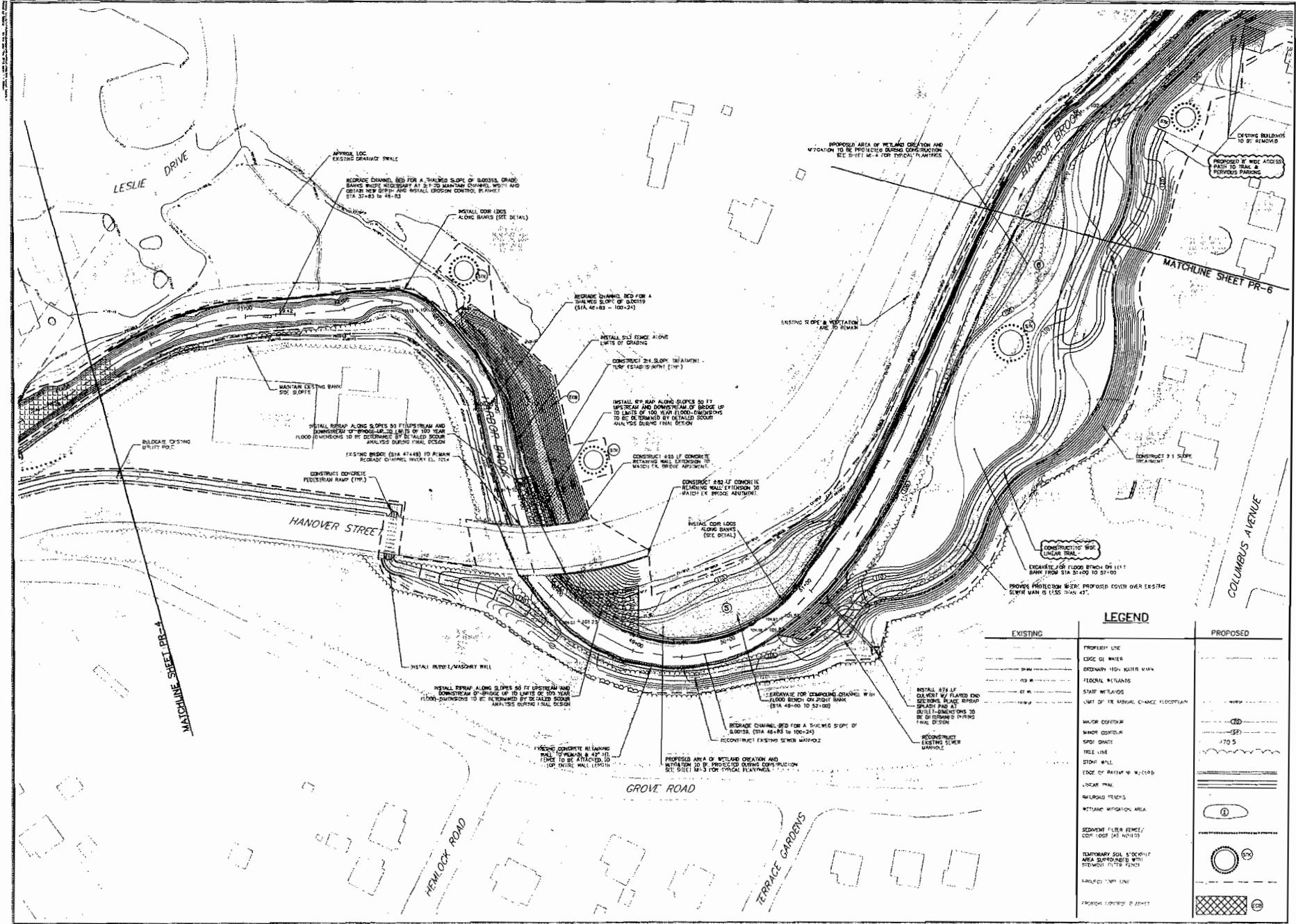


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PROPOSED CONDITIONS AND S&E CONTROLS				REVISIONS	Damascus Ingenierie Architekten und Umwelttechnik Services	 MILONE & MACBROOM [®]		
NEB	BAM	ADM	CODES	03/02/2012	94 Realty Drive Cheshire, Connecticut 06411 (203) 271-1773 Fax (203) 272-9793 www.miloneandmacbroom.com			
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HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT								
HANOVER POND TO BALDWINS POND MERIDEN, CONNECTICUT								
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PERMIT NO. 2011-14-20								
EXPIRE NO. 09/14								
PR-3								



MACHINE SHEET PR-3



MILONE & MACBROOM.
Engineering,
Landscaping,
and Environmental Services
90 Main Street

REVISIONS

PROPOSED CONDITIONS AND SITE CONTROLS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

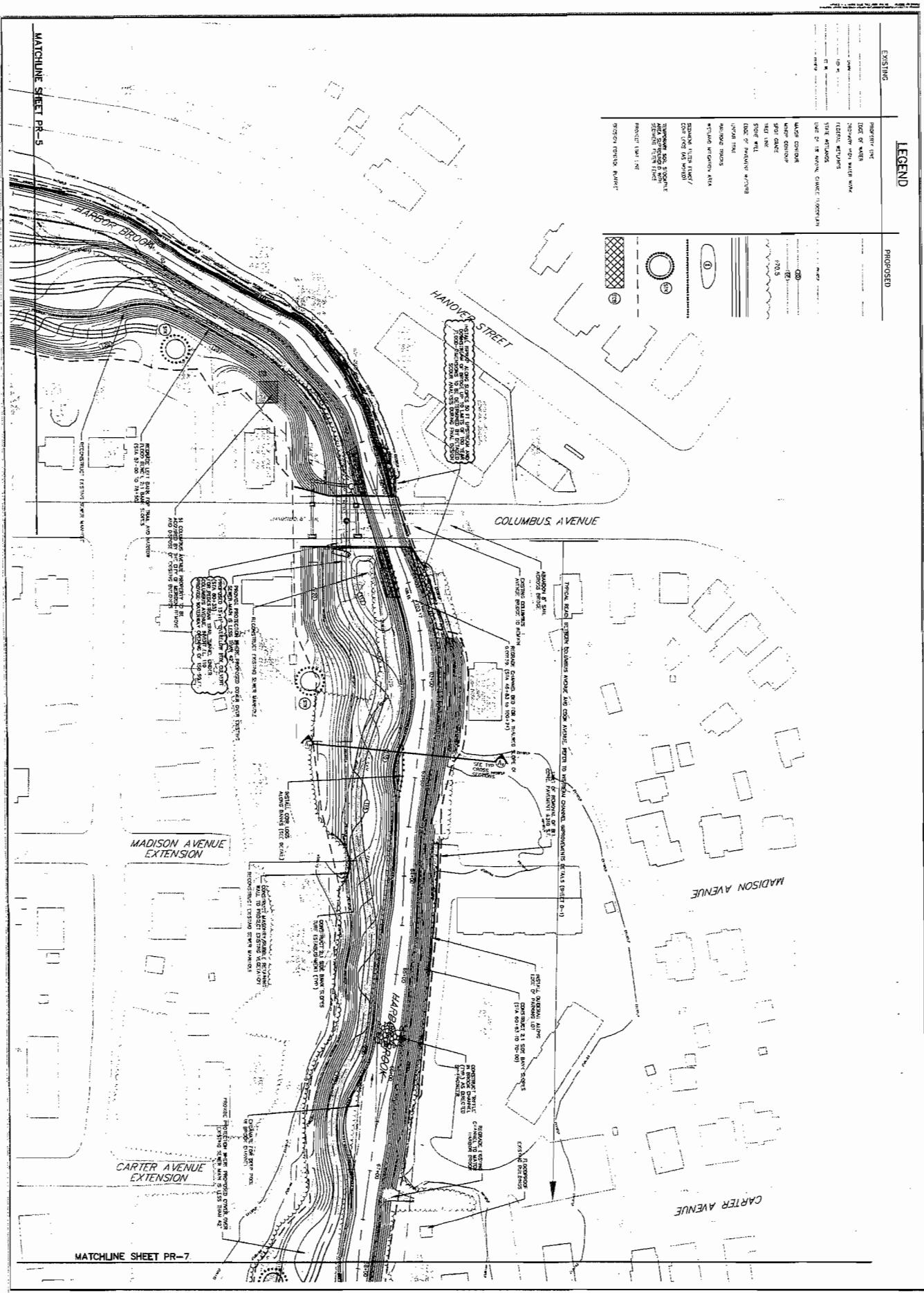
HANOVER POND TO BALDWIN POND

MERIDEN, CONNECTICUT

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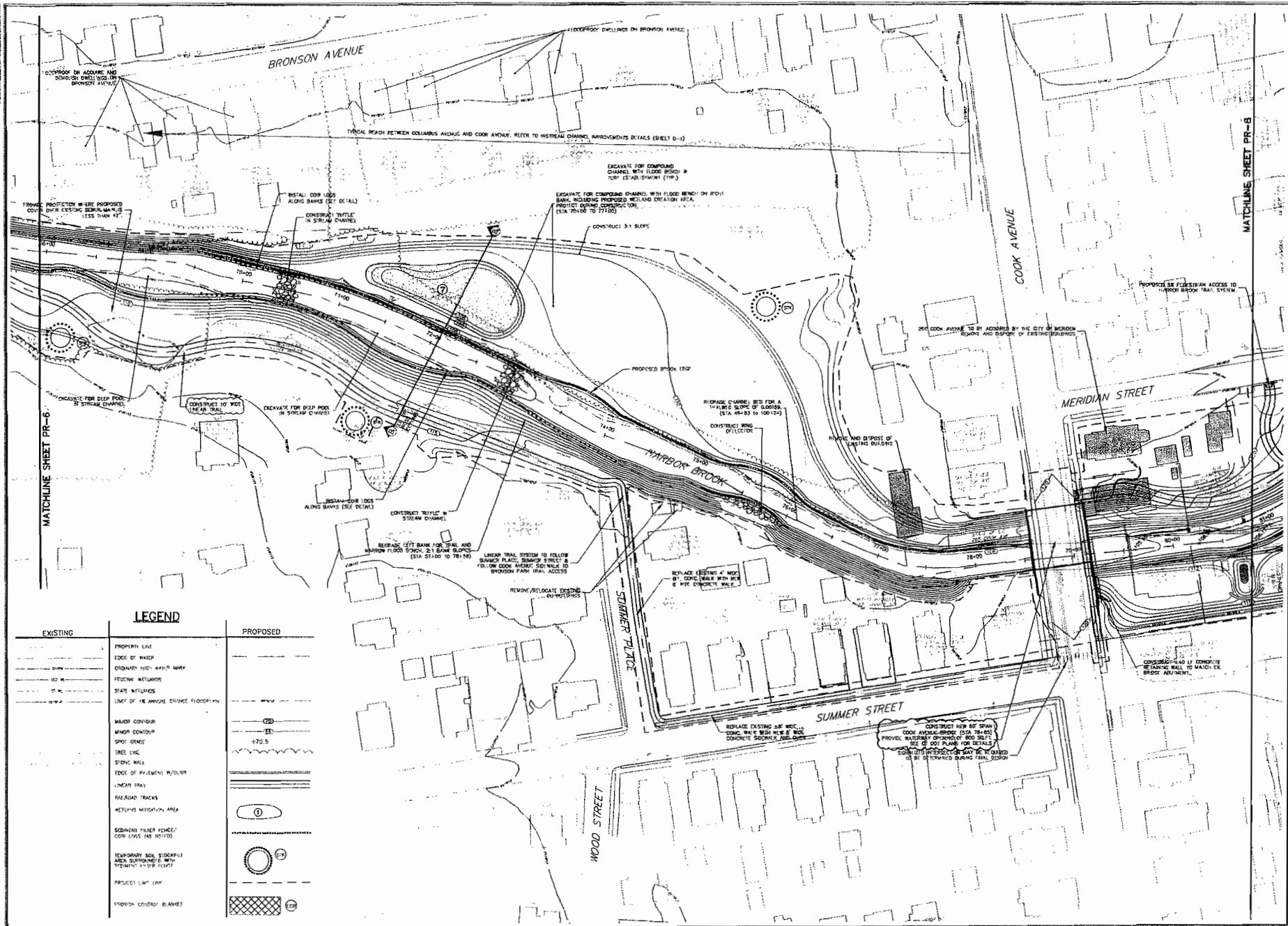
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SHEET NO 12 OF 24		
PR-5		
SHEET NO		

PR-5



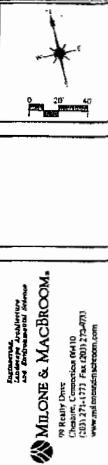
 PR-6 <small>Sheet No. _____</small>	<p>PROPOSED CONDITIONS AND S&E CONTROLS</p> <p>HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT</p> <p>HANOVER POND TO BALDWINS POND MERIDEN, CONNECTICUT</p> <p><small>FOR PERMITTING ONLY, NOT FOR CONSTRUCTIONAL</small></p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">03/02/2012</td> <td style="width: 10%;"></td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table>	03/02/2012																																																												 Environmental Leadership Architecture and Environmental Services
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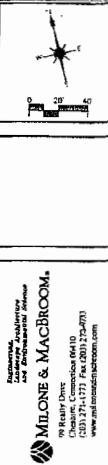
PROPOSED CONDITIONS AND SITE CONTROLS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER BOND TO BALDWIN POND
MERRIMACK CONNECTICUT



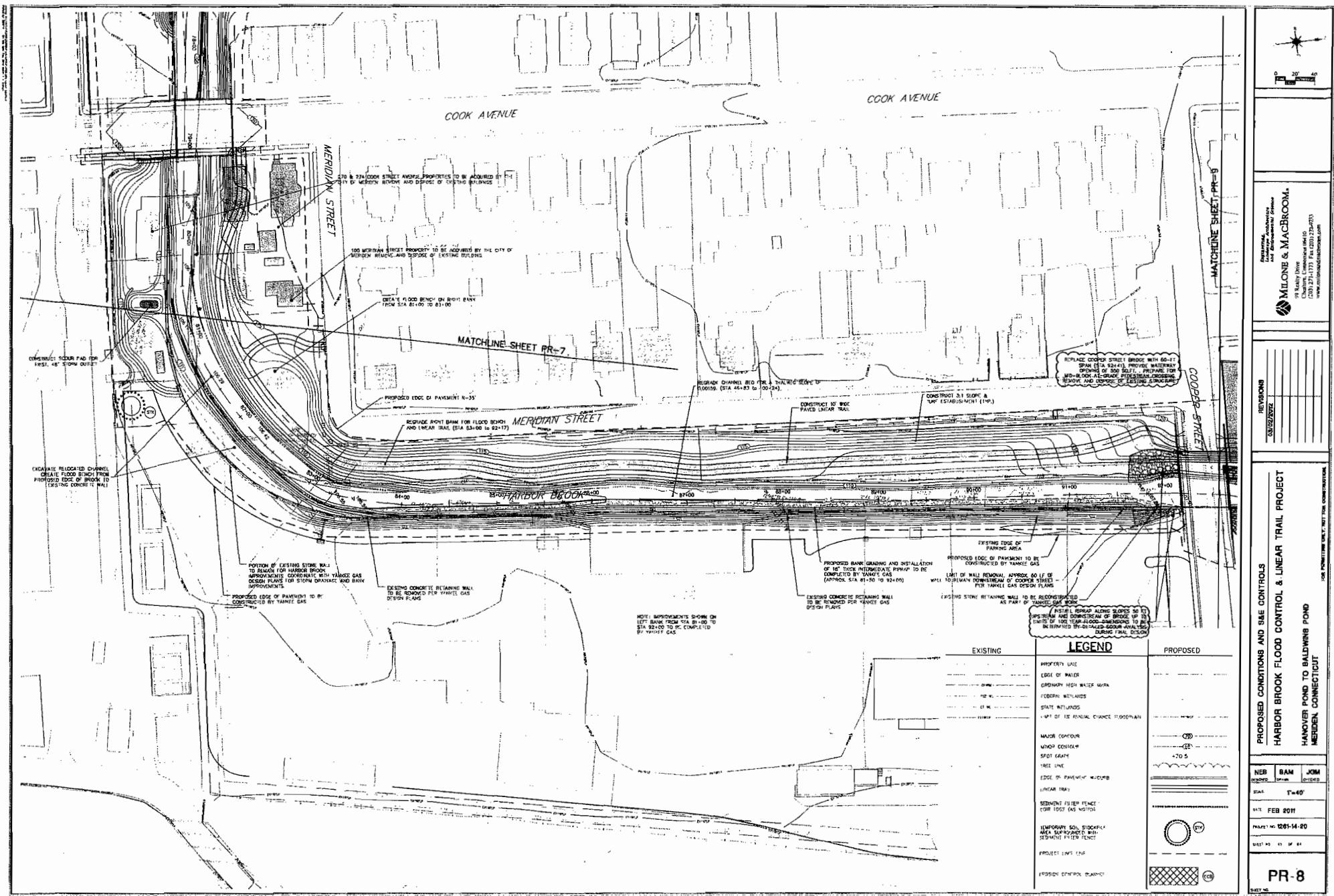
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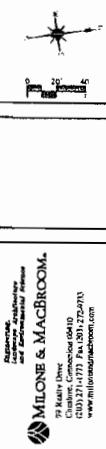
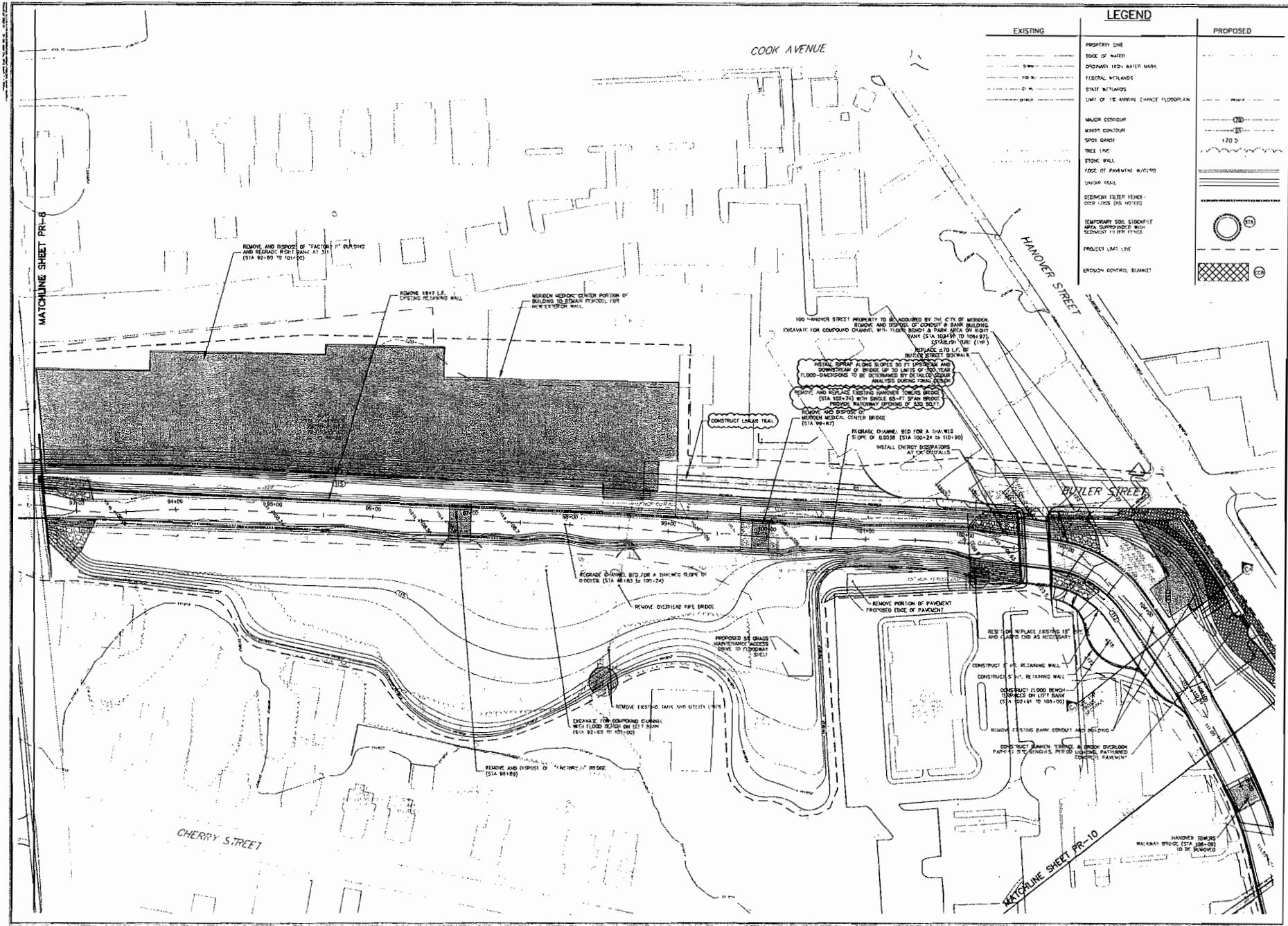


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MATCHLINE SHEET PR-8



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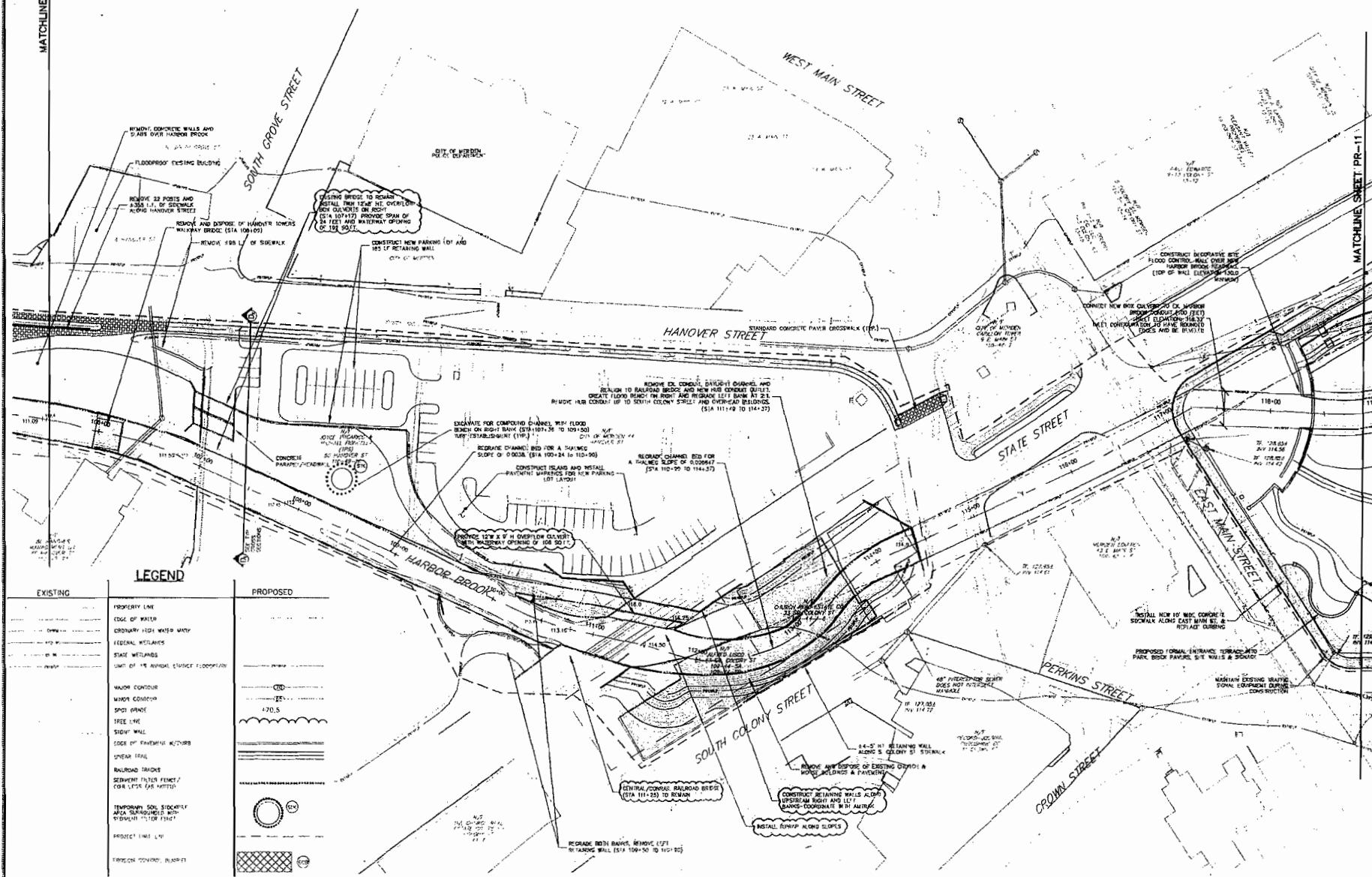
PROPOSED CONDITIONS AND SAE CONTROLS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

NEB	BAM	JGM
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DATE FEB 2011		
PROJECT NO 1261-14-20		
MELT NO 16 OF 24		

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HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

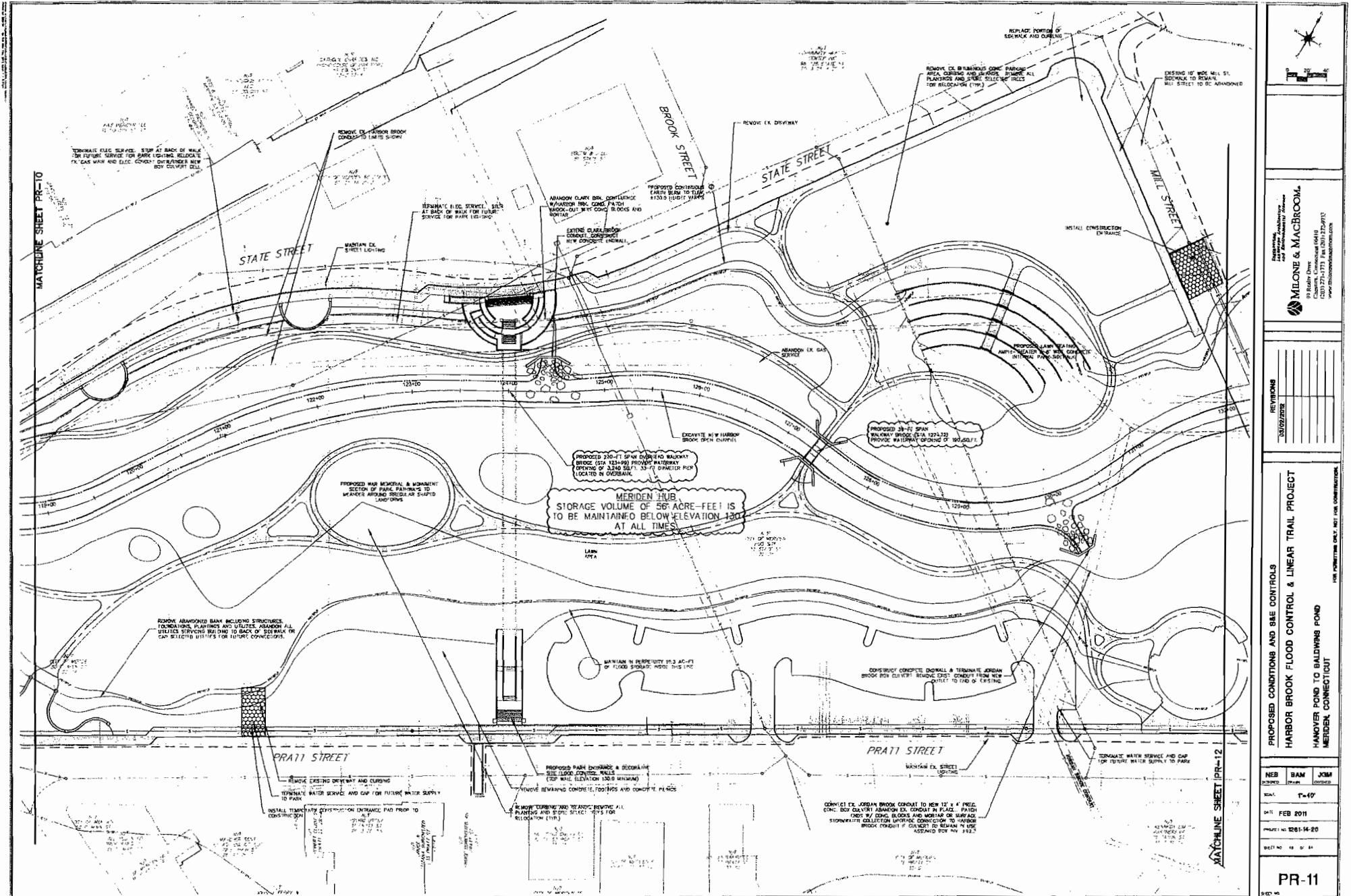
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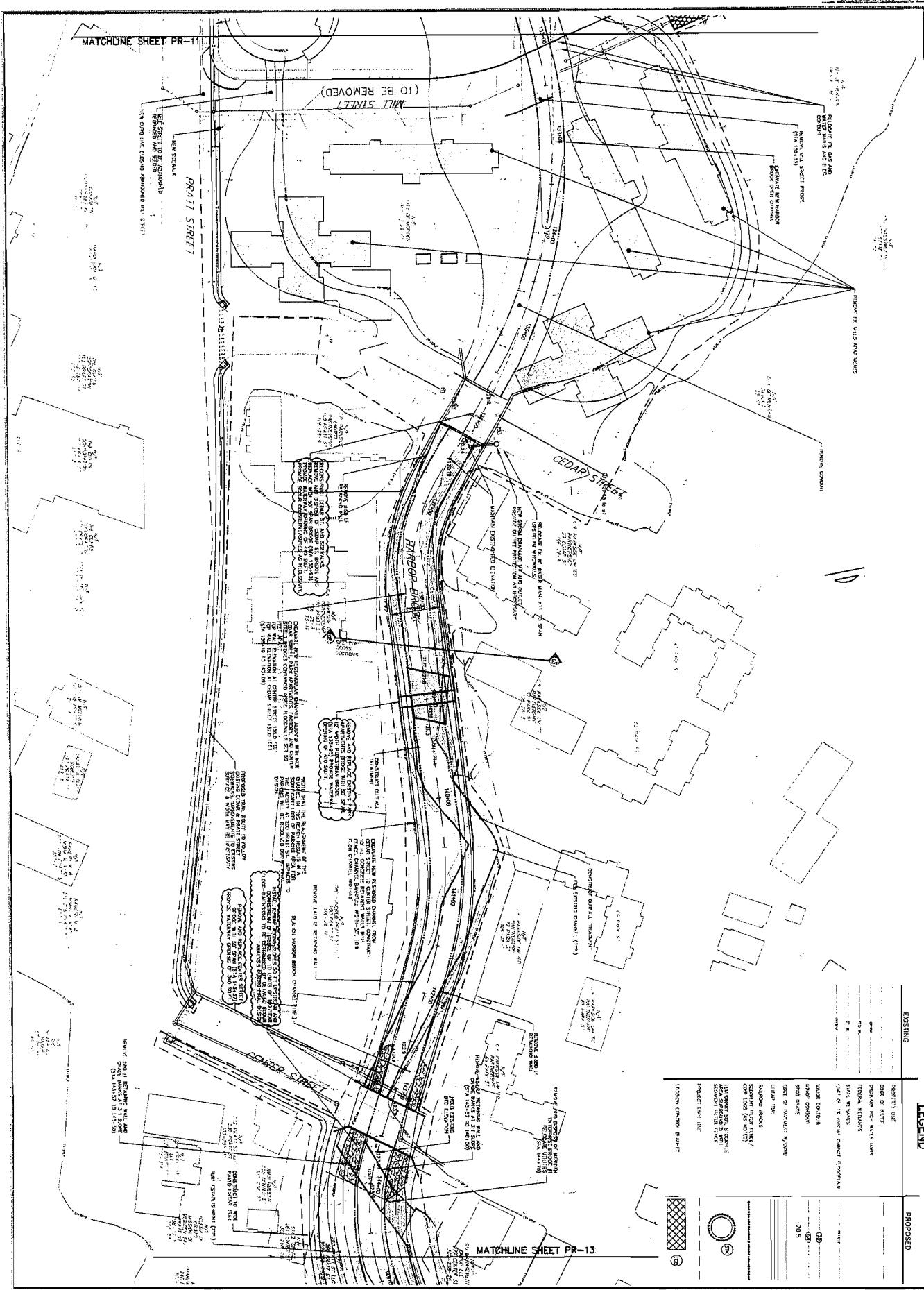
HANOVER POND TO BALDWIN POND

NEW HAMPSHIRE, CONNECTICUT

FOR POSITION ONLY. NOT FOR CONSTRUCTION

NEB	BAM	JGM
SEARCHED	INDEXED	SERIALIZED
DATE T-40'		
FEB 2011		
PROJ/ACT NO 1261-14-20		
SHEET NO 47 OF 44		
PR-10		
PAGE NO.		



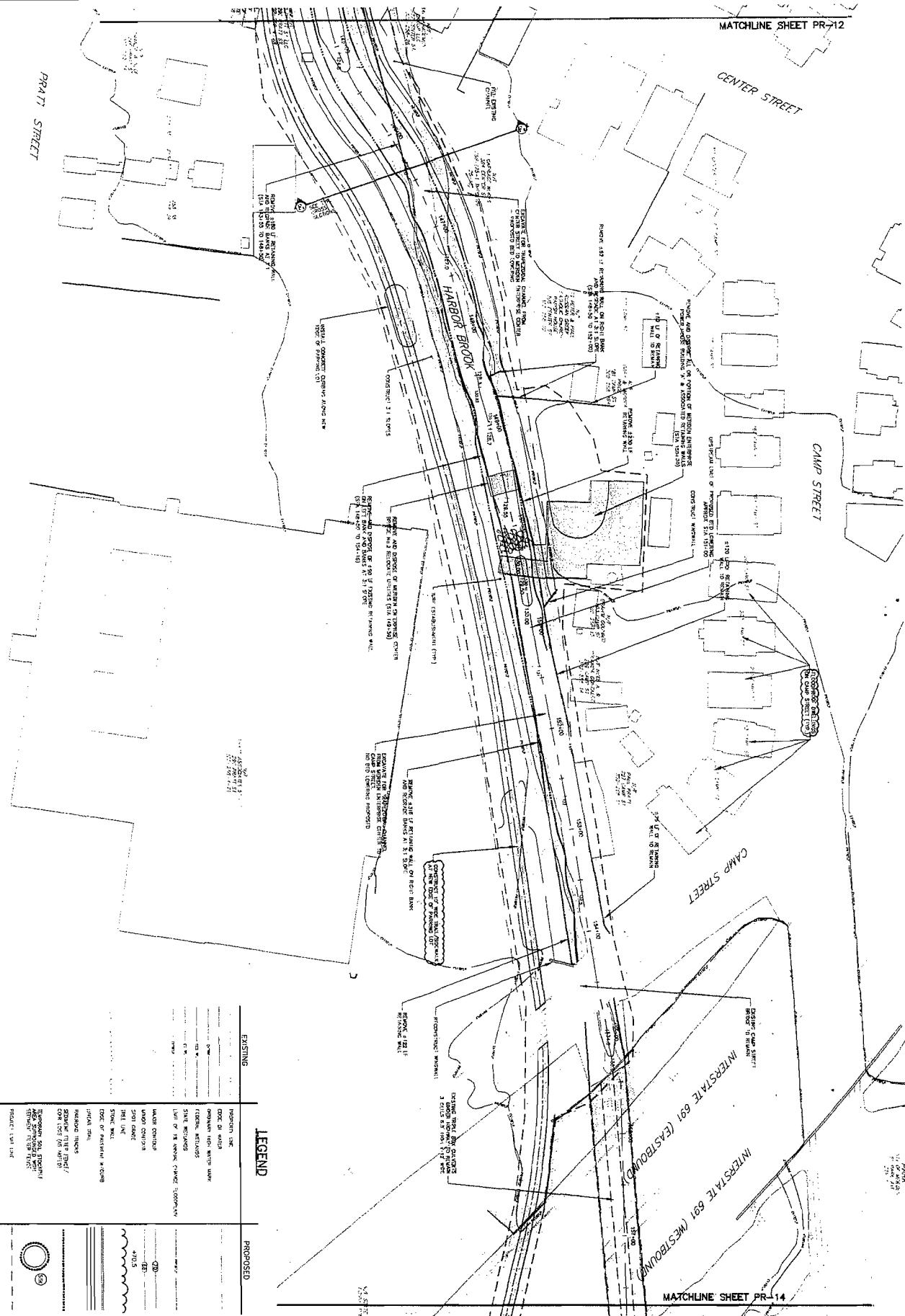


PROPOSED CONDITIONS AND S&E CONTROLS			REVISIONS	Milone & MacBroom, Engineers, Architects and Environmental Services	
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT			03/08/2012	 MILONE & MACBROOM , Engineers, Architects and Environmental Services 99 Ruddy Drive, Cheshire, Connecticut 06410 (203) 271-1771 Fax (203) 272-0733 www.miloneandmacbroom.com	
NEB	BAM	JHM			
03/08/2012	FEB 2011	1/40			
Project No. 12511440	Sheet No. 12	Page No. 14 of 14			

PR-12

MATCHLINE SHEET PR-12

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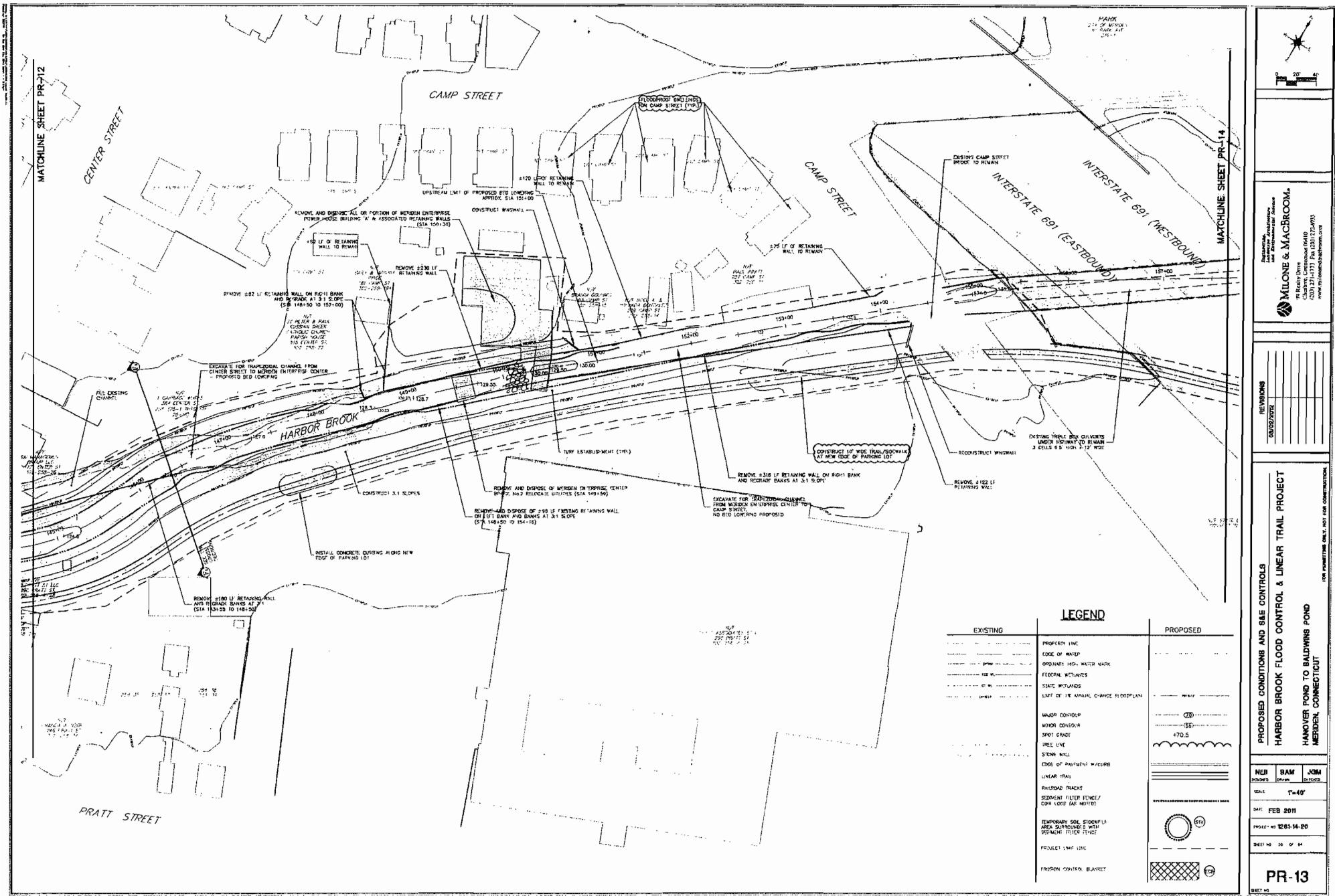
PROPOSED CONDITIONS AND S&E CONTROLS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

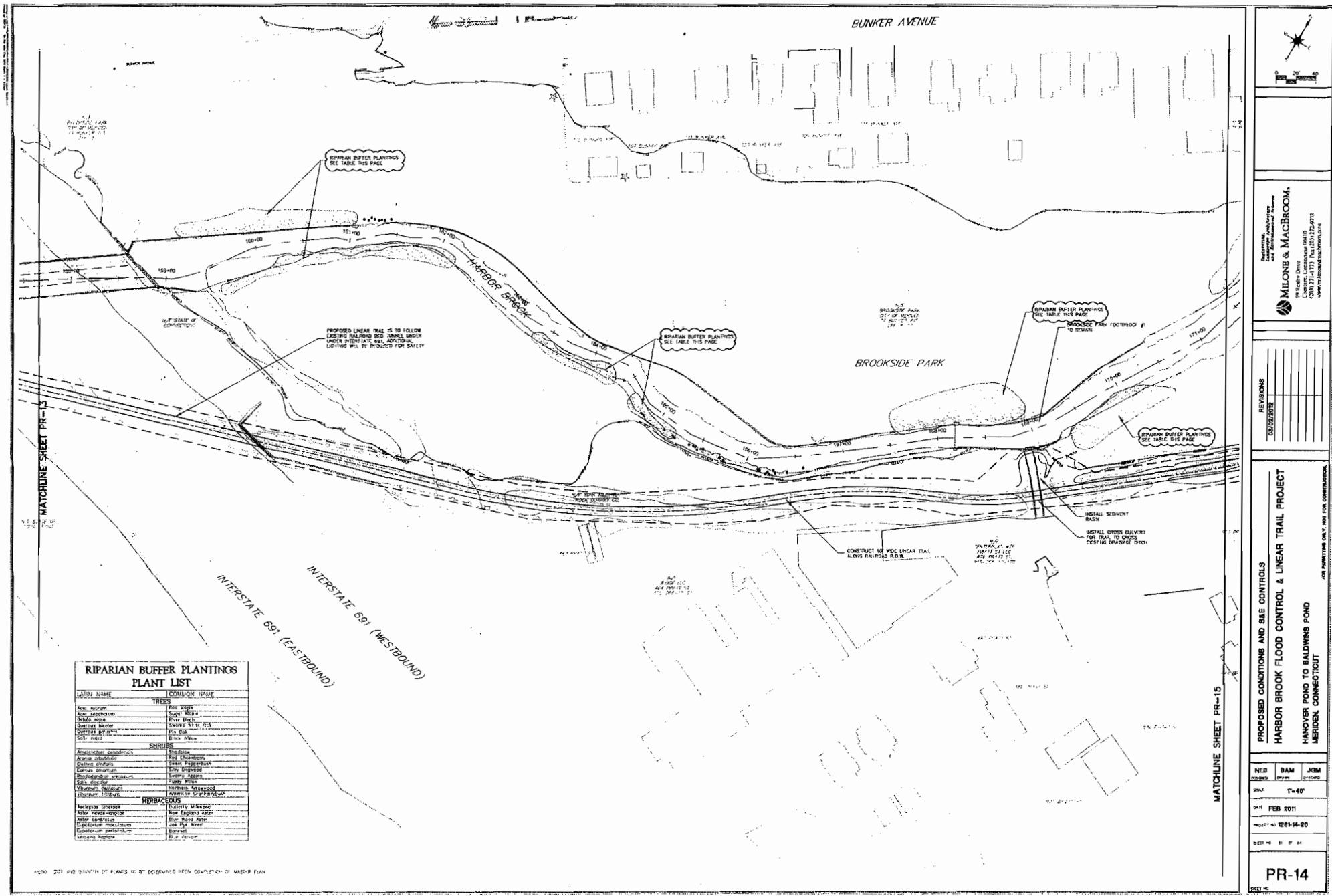
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REVISION

03/02/2018

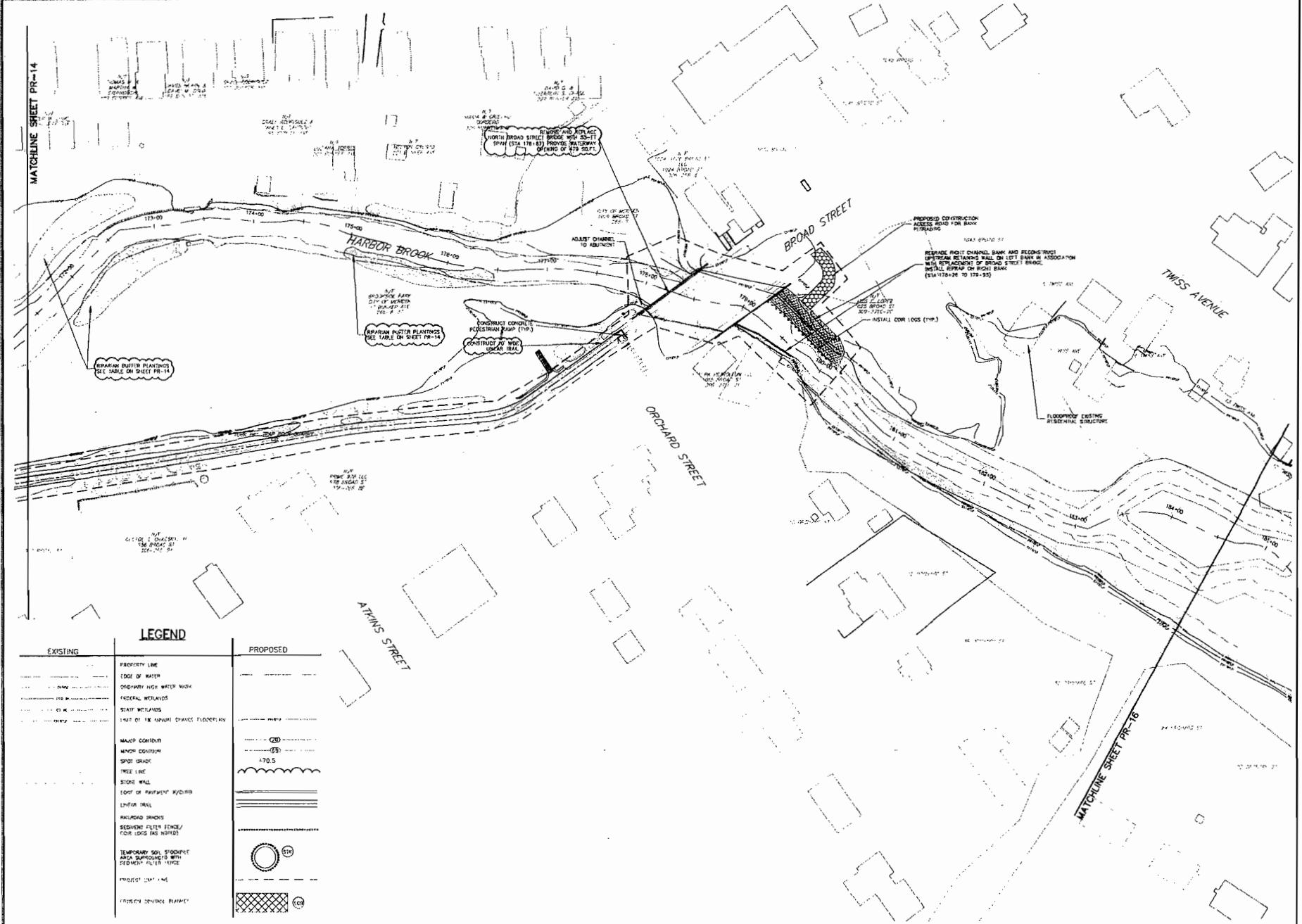






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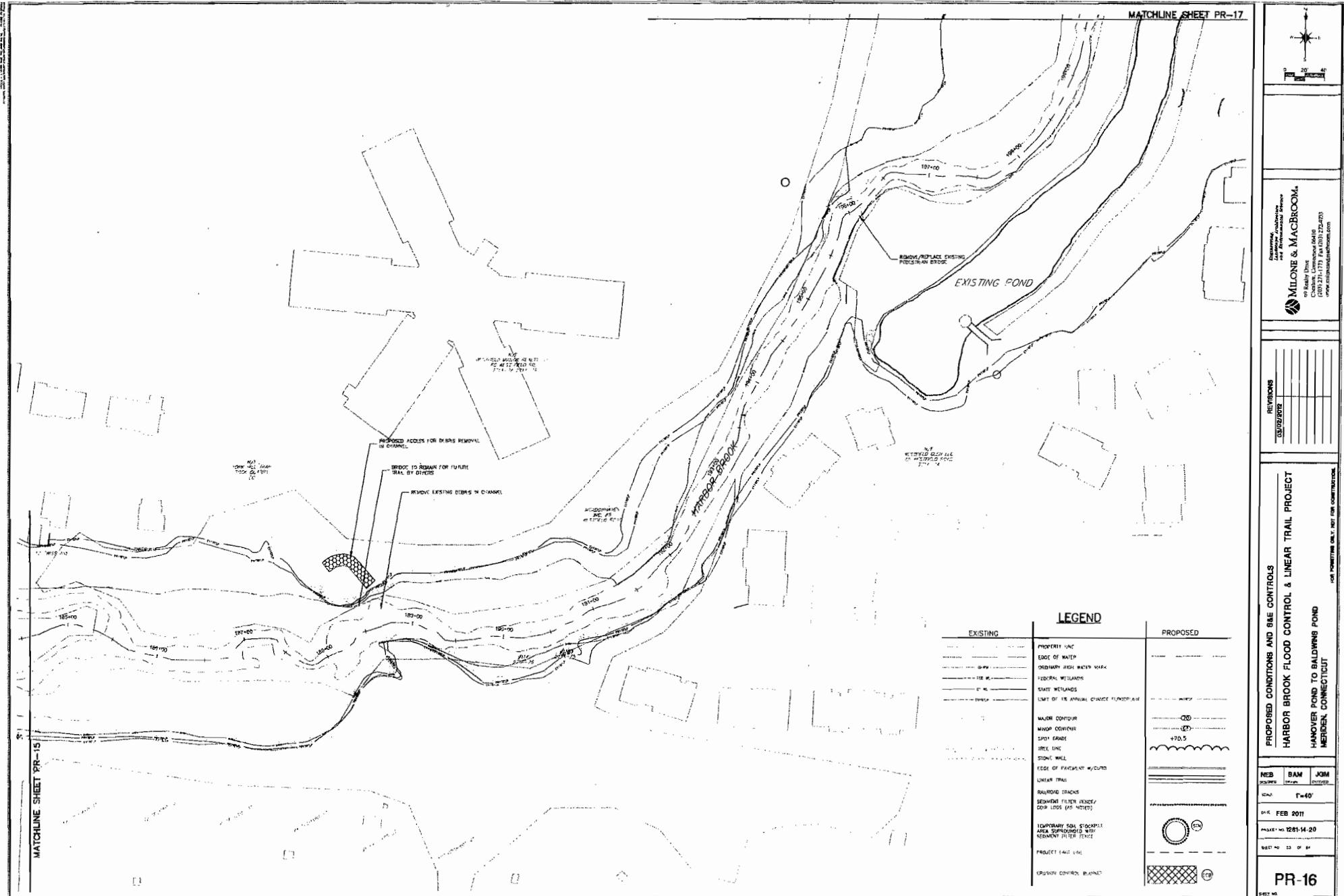
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PROPOSED CONDITIONS AND SITE CONTROL		
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT		
HANOVER POND TO BALDWYN'S POND		
MERIDEN, CONNECTICUT		
NEB	BAM	JGM
CONTRACTOR	GENERAL CONTRACTOR	ENGINEER
TOTAL T-40'		
DATE: FEB 2011		
PROJECT NO: 126114-20		
SITE NO	NS	EW

PR-15

MATCHLINE SHEET PR-17



FLOOD SHELF PLANT LIST							
SHADE TREES	REV	OTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				Acer rubrum	Red Maple	35'-40' CAL	BABY, FULL & DENSE
				Acer saccharinum	Silver Maple	35'-40' CAL	BABY, FULL & DENSE
				Betula nigra	River Birch	35'-40' CAL	BABY, FULL & DENSE
				Betula populifolia	Downy Birch	35'-40' CAL	BABY, FULL & DENSE
				Betula populifolia	Fox Oak	35'-40' CAL	BABY, FULL & DENSE
TREE SAPLINGS	REV	OTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				Acer rubrum	Red Maple	5'-6' HT	CONTAINER
				Betula nigra	River Birch	5'-6' HT	CONTAINER
				Fraxinus americana	Eastern Cottonwood	5'-6' HT	CONTAINER
				Fraxinus nigra	Swamp White Oak	5'-6' HT	CONTAINER
				Garrya elliptica	Garry Oak	5'-6' HT	CONTAINER
				Salix nigra	Black Willow	5'-6' HT	CONTAINER
SHRUBS	REV	OTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				Ailanthus altissima	Tree of Heaven	30'-35'	FULL & DENSE
				Amelanchier alnifolia	Saskatoon	10'-15'	FULL & DENSE
				Cercis canadensis	Sacred Reed	10'-15'	FULL & DENSE
				Coronilla varia	Gray Peafood	10'-15'	FULL & DENSE
				Crataegus monogyna	Winterberry	10'-30'	FULL & DENSE
				Fraxinus americana	White Ash	10'-30'	FULL & DENSE
				Fraxinus nigra	Black Ash	10'-30'	FULL & DENSE
				Salix discolor	Pussy Willow	10'-30'	FULL & DENSE
				Spiraea tomentella	Steppebush	10'-15'	FULL & DENSE
				Vaccinium corymbosum	Highbush Blueberry	10'-15'	FULL & DENSE
				Vaccinium corymbosum	Armenian Blueberry	10'-15'	FULL & DENSE
HERBACEOUS PLUGS	REV	OTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
				Anemone nemorosa	Wood Anemone	PLUG	
				Convallaria majalis	False Solomon's Seal	PLUG	
				Corylus avellana	Common Hazel	PLUG	
				Fragaria virginiana	Fuji Strawberry	PLUG	
				Hyacinthoides non-scripta	Blue Flag Iris	PLUG	
				Iris versicolor	Variegated Iris	PLUG	
				Juncus effusus	Soft Rush	PLUG	
				Lathyrus palustris	Marsh Vetch	PLUG	
				Monotropa uniflora	Ghost Plant	PLUG	
				Polygonatum multiflorum	Pickoverweed	PLUG	
				Scirpus lacustris	Buck Penny	PLUG	
				Solidago canadensis	Goldenrod	PLUG	
				Solidago canadensis	Great Goldenrod	PLUG	
				Solidago speciosa	Whorled Goldenrod	PLUG	

FLOOD SHELF EMBANKMENT SEED MIX

NEW ENGLAND AND CONSERVATION STATUS: MIX
 SEDGWICK Spruce Big Bluestem (*Andropogon gerardii*), Switchgrass (*Panicum virgatum*), Little Bluestem (*Schizachyrium scoparium*), Common Blue Stems (*Bothriochloa bladhii*), Common Reed Grass (*Glyceria maxima*), Common Reed (*Phragmites australis*), Common Bulrush (*Schoenoplectus acutus*), Common Smartweed (*Polygonum pensylvanicum*), Common Milkweed (*Asclepias syriaca*), Showy Tick-Trefoil (*Deshamia paniculata*), Enchanter's Nightshade (*Monotropa uniflora*), Hairy Vetch (*Lathyrus hirsutus*), Hairy Bittercress (*Cardamine hirsuta*), Hairy Vervain (*Verbena urticifolia*), Hairy Wood-land Senna (*Senna villosa*).

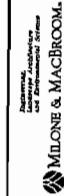
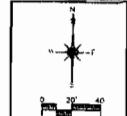
**RECOMMENDED APPLICATION
(1743 SQUARE FEET / LB)**

FLOOD SHELF SEED MIX

RECOMMENDED APPLICATION RATE
(3570 SQUARE FEET/ :3)

PLANTING NOTES

1. EROSION CONTROLS SHALL BE INSTALLED, REPAIRED AND MAINTAINED DURING THE CONSTRUCTION PERIOD OF THE WETLAND RESTORATION OR UNTIL THE SITE IS FULLY STABILIZED BY VEGETATION (STAB MAX). EROSION CONTROLS SHALL THEN BE REMOVED FROM THE SITE.
 2. A METANOIC SODIUM SHALT BE ON SITE TO MONITOR PLANTS AND GRAVITY OF THE WETLAND RESTORATION AREA TO ENSURE COMPLIANCE WITH THE APPROVED PLANS.
 3. GROWING SEEDS REPORTED ON THE PLAN ARE BLOWN THOROUGHLY, ACTUAL SURFACE GRADES ACROSS WETLAND SITES SHALL REFLECT HOLLOW AND BLOWN DEPOSITIONS OF NATURAL WETLANDS.
 4. 12 INCHES OF SUPER DENSED TOPSOIL (WEIGHT CONTAIN MAXIMUM 1% ORGANIC CARBON BY WEIGHT) SHALL BE INSTALLED OVER THE BLOWN SURF GRADE.
 5. THE SURFACE AND GROUNDWATER LEVELS SHALL BE MONITORED PRIOR TO PLANTING PLANTS AS A MEASURE OF ACTUAL WATER LEVELS, THE COMPENSATING PLANTINGS MAY NEED TO BE ADJUSTED IN THE FIELD.
 6. ALL WETLAND PLANTINGS ARE TO BE PLANTED ONLY AFTER STABILIZATION OF COMPENSATING DRAINAGE AREAS.
 7. WETLAND PLANTINGS SHALL BE LIMITED TO THE PERIODS OF APRIL 15 - JULY 15 OR AUGUST 15, ANNUAL QUALITY PLANTS FROM A NURSERY SHALL BE USED.
 8. ALL WOODY PLANT MATERIAL SHALL BE PROVIDED IN CONTAINERS THAT ARE APPROPRIATELY SIZED FOR THE SPECIFIED PLANT. HYDROSEED PLANT MATERIAL SHALL BE PLUGS AND CONDUITIZED. WETLAND PLANTS SHALL HAVE BEEN GROWN IN A LOCAL PRODUCTION NURSERY.
 9. SEEDPLANTING AND PLANTING SHALL BE CONCENTRATED IN STRIPS OR IN DETERMINED HERBACEOUS PLANTINGS TO BE PLANTED TWO FEET ON CENTER. SHRUB PLANTINGS TO BE 3'X 3' (DETERMINED BY SPECIES).
 10. ALL FUTURE AND ROOT STOCK SHALL BE PLANTED ONE TO TWO INCHES BELOW THE GROUND SOIL, SPACED AS SPECIFIED. PLANTS WITH GROWTH STIMS SHALL BE PLANTED SUCH THAT THE GROWING STEM EXTENDS ABOVE THE SURF GRADE. WEIGHTS OF TUBERS AND ROOT STOCK WILL FORCE STAINS AND/OR EIGHT PLANT WAYS MAY BE REQUIRED. DROPPING A FLOWERING SNAKE IS A VIOLATION OF THIS SECTION.
 11. THE SOILS IN THE INLET/RETENTION AREA SITES SHALL BE REBLED WITH EVERGREEN WETLAND AND UPLAND SEED KITS AS NOTED IN PLANT LIST. ALSO PLANT A SEED MIX SPECIFIED BY EACH WETLAND NURSERY OR THE AUTHORITY. NO BAGS (412-756-1752 OR APPROXIMATE EQUIVALENT).
 12. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROFIT DEFLECTION ON REMOVAL AND REPLACEMENT OF ANY PLANT FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REIMBURSEMENT SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
 13. MAINTENANCE SHALL BE REQUIRED IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL ACCEPTANCE BY THE WETLAND TECHNICIAN. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, LIGHTNING & FROZEN GROWTH OF THE PLANTS.



REVIEWERS

PROPOSED CONDITIONS AND SITE CONTROLS

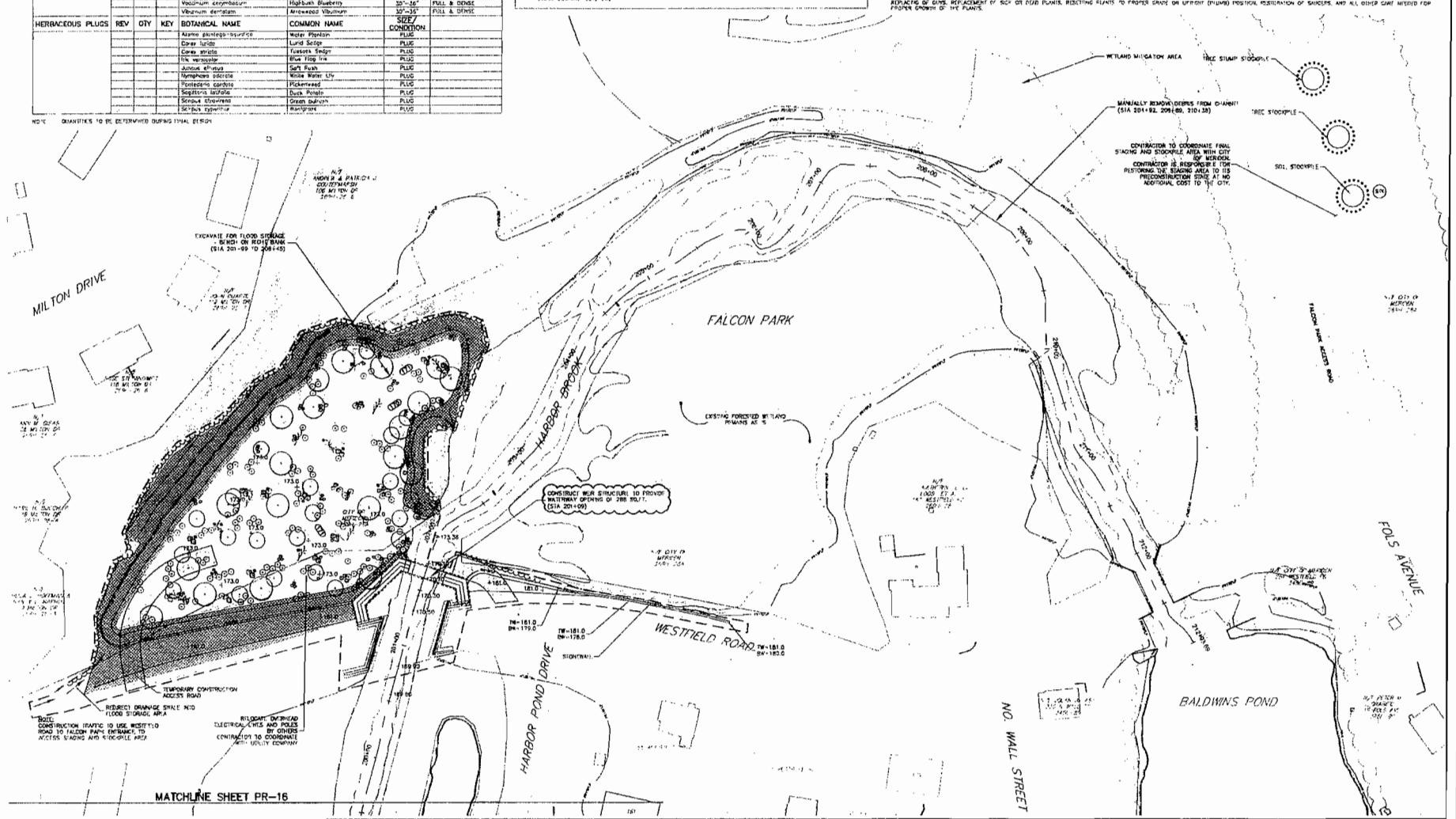
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWIN'S POND

MEDFORD, MASSACHUSETTS

FOR INFORMATION ONLY NO FOR COMMERCIAL USE

NEB	BAM	JGM
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PROJECT NO. 1261-14-20		
SHEET NO. 34 OF 41		
PR-17		
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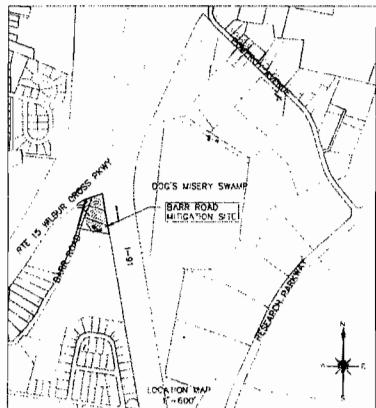


PLANT LIST						
SHADE TREES	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE COMMENTS
				Acer rubrum	Red Maple	3'-5' x CAL B&R, FULL & DENSE
				Acer saccharinum	Silver Maple	3'-5' x CAL B&R, FULL & DENSE
				Ginkgo biloba	Swing White Ginkgo	3'-5' x CAL B&R, FULL & DENSE
				Tilia americana	White Basswood	3'-5' x CAL B&R, FULL & DENSE
TREE SAPLINGS	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE COMMENTS
				Acer rubrum	Red Maple	5'-6' x HT. CONTAINER
				Acer saccharinum	Silver Maple	5'-6' x HT. CONTAINER
				Prunus pensylvanica	Wild White Dogwood	5'-6' x HT. CONTAINER
				Ostrya virginiana	Hornbeam	5'-6' x HT. CONTAINER
				Salix nigra	Buck Willow	5'-6' x HT. CONTAINER
SHRUBS	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE COMMENTS
				Crataegus	Spiraea	30'-35' F&R, DENSE
				Cotoneaster horizontalis	Horizontal Cotoneaster	30'-35' F&R, DENSE
				Crataegus speciosa	Silky Dogwood	30'-35' F&R, DENSE
				Hamamelis virginiana	Winterberry	30'-35' F&R, DENSE
				Rubus phoenicolasius	Scarlet Rose	30'-35' F&R, DENSE
				Amelanchier alnifolia	Juneberry	30'-35' F&R, DENSE
				Sambucus canadensis	Common Elderberry	30'-35' F&R, DENSE
				Spirea loerentzii	Steppebush	30'-35' F&R, DENSE
				Vaccinium corymbosum	Highbush Cranberry	30'-35' F&R, DENSE
				Vaccinium deertorum	Arrowwood Viburnum	30'-35' F&R, DENSE
HERBACEOUS PLUGS	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE CONDITION
				Antennaria erythrocephala	Wooly Fleabane	PLUG
				Coreopsis tinctoria	Painted Tickseed	PLUG
				Cortaderia stellata	Plains Grass	PLUG
				Iris versicolor	Blue Flag Iris	PLUG
				Juncus effusus	Sedge Rush	PLUG
				Liatris spicata	Purple Blazing Star	PLUG
				Septzia latifolia	Duck Potato	PLUG
				Spiraea argentea	Green bushy Spiraea	PLUG
				Scirpus americanus	Ferngrass	PLUG

WELL AND MITIGATION PLANT NOTES

LEGEND

EXISTING		PROPOSED
—	PROPERTY LINE	—
—	LINE OF WATER	—
—	ORDINARY HIGH WATER MARK	—
—	FEDERAL WETLANDS	—
—	STATE WETLANDS	—
—	LINES OF 100-YEAR FLOODPLAIN	—
—	FLAT ELEVATED 1.000' AWY	—
—	MAJOR CONTOUR	—
—	MINOR CONTOUR	—
—	SPOT CRATE	—
—	TREE LINE	—
—	SEPARATE PLIER FENCES/ COPPER TIES (AS NOTED)	—
—	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH WOODEN PLIERS FENCE	—
—	—	+70.5
—	—	(70)
—	—	(65)
—	—	(60)
—	—	(55)



UPLAND SEED MIX

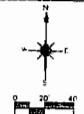
NEW ENGLAND AND CONSTITUTION STATE WILDFIRE RISK
SEZD Wet Soils: Big Bayberry (*Axerophyton gracile*), Seaside Grass (*Panicum vaginatum*)
Litter Layer: Common Mullein (*Sesbania aculeata*), Canada Wild Rye (*Elymus canadensis*),
False Sedge (*Carex vulpinoidea*), Purple Fraxinella (*Fragaria Virginiana*),
Fringed Gentian (*Gentianopsis crinita*), Hairy Bittercress (*Cardamine hirsutissima*),
Common Milkweed (*Asclepias syriaca*), Showy Tick Trefoil (*Desmodium paniculatum*),
New England Aster (*Aster novae-angliae*), Red Top Trefoil (*Desmodium ciliolatum*),
Hairy Vetch (*Hedysarum occidentale*).

RECOMMENDED APPLICATION RATES

WETLAND SEED MIX

COMMON REED MANAGEMENT AND REMOVAL

1. THE SMALL PATCHES SHALL BE REMOVED BY EXCAVATION.
 2. CONTRACTOR SHALL BE REQUIRED TO EXCAVATE TO A DEPTH OF TWO FEET BELOW THE SOIL SURFACE OR AS DIRECTED BY THE SUPERVISIVE WETLAND SCIENTIST, AND APPROXIMATELY THREE FEET BEYOND THE OUTER PLANT STAKES.
 3. ALL EXCAVATED MATERIAL FROM THE COMMON REED REMOVAL AREAS SHALL BE STOCKPILED AND TRANSPORTED TO MEADOW LAMBSKIN. PLEASE NOTE THAT THIS MATERIAL SHALL NOT BE MIXED OR REUSED ON SITE.



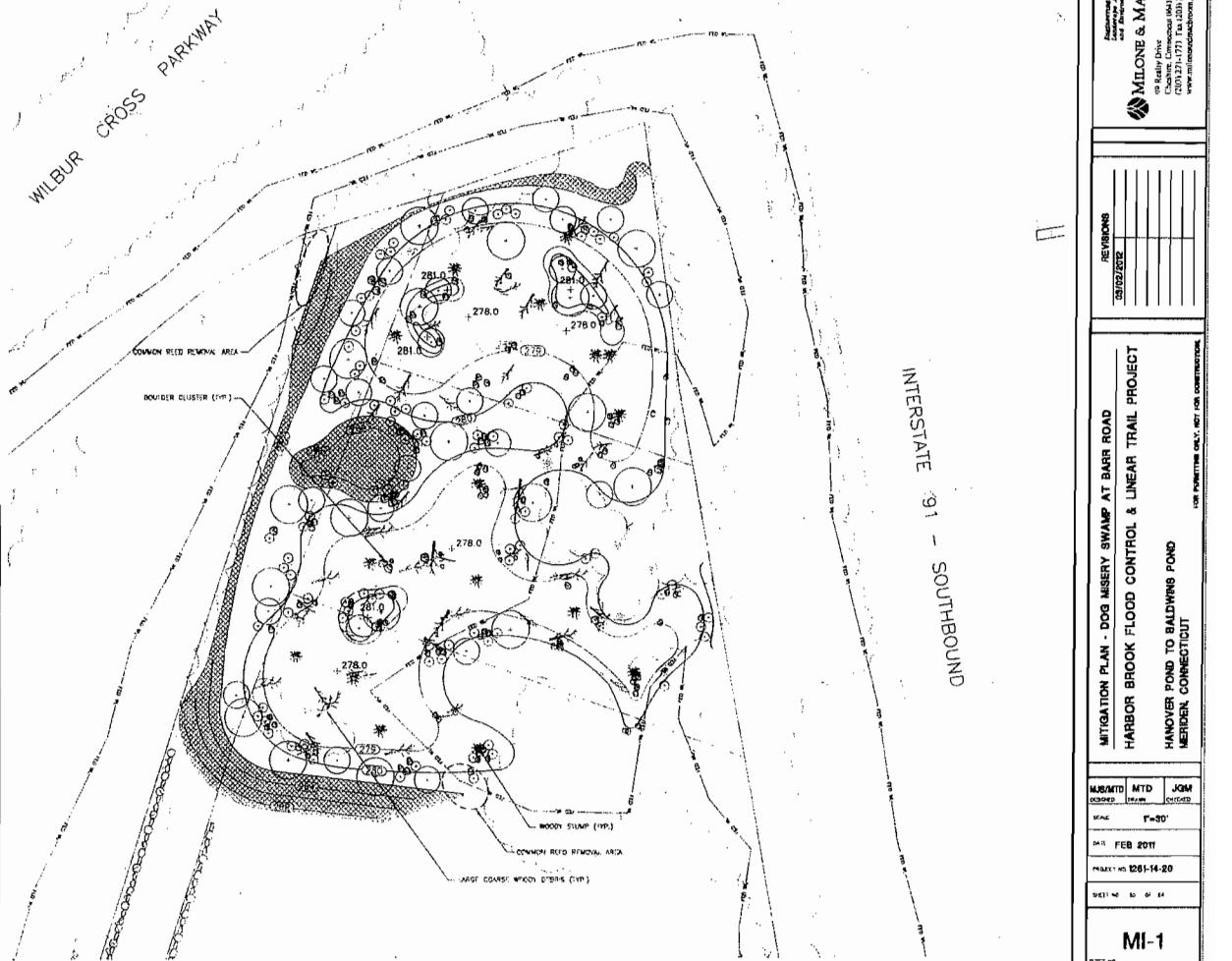
**MILONE & MACBROOM,
Landscape Architects
and Environmental Scientists**

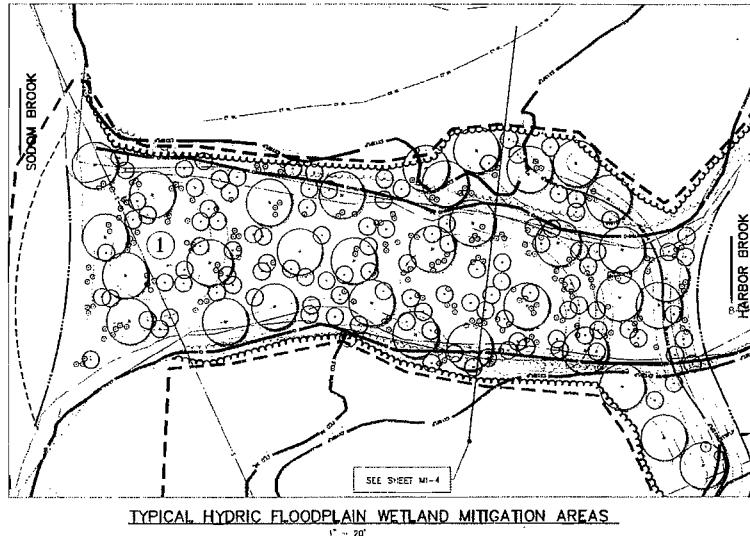
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MURKIN BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

MTD
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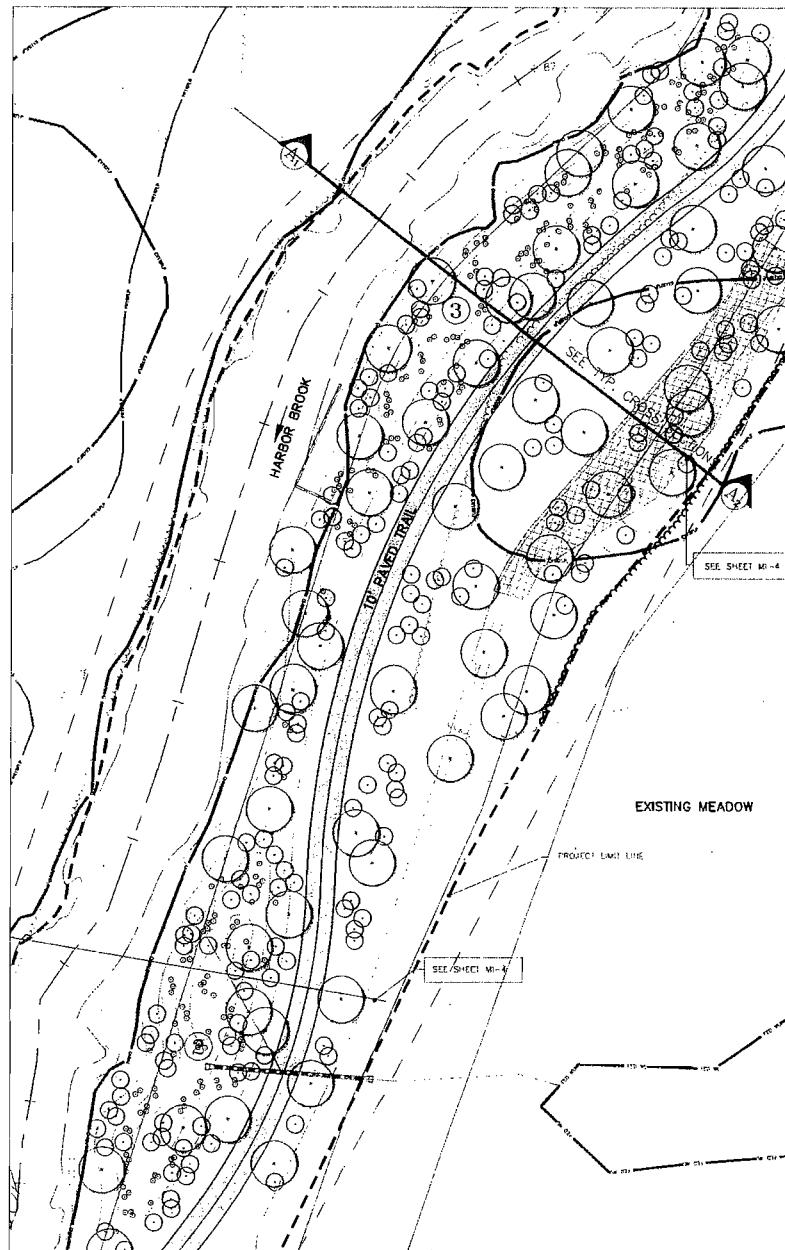


TYPICAL HYDRIC FLOODPLAIN WETLAND MITIGATION AREAS

17 ~ 20

WETLAND RESTORATION PLANTING NOTES

1. PLANT GUARANTEES TO BE EXCHANGED DURING DESIGN PHASES OF PROJECT AND IN ACCORDANCE WITH REGULATORY MITIGATION COMPLIANCE PROCEDURES.
 2. EROSION CONTROLS SHALL BE INSTALLED, MAINTAINED AND MONITORED THROUGHOUT THE CONSTRUCTION PERIOD OF THE MITIGATION OR UNTIL THE SITE IS FULLY STABILIZED BY VEGETATION (SOLD MY THIRDS CONTROLS SHALL BE REMOVED FROM THE SITE AS SOON AS POSSIBLE).
 3. A WELAND SCIENTIST SHALL BE ON SITE TO MONITOR PLANTING AND CARE OF THE MITIGATION RESTORATION AREA TO ENSURE COMPLIANCE WITH THE APPROVED PLANS.
 4. GRADING LANDS IDENTIFIED IN THE PLAN ARE DOWN SMOOTHLY, ACTUAL SURFACE GRADES ACROSS MITLAND FLOOR SHALL REFLECT HOMOPHY AND HOLLOW HOMOPHY OF NATURAL MEADOWS.
 5. 8 INCHES OF SOIL EROSION TURF (MUST CONTAIN MINIMUM 10% ORGANIC CARBON) BY WEIGHT SHALL BE POSITIONED OVER THE ROUGH SIDE GRADE.
 6. ALL MITLAND PLANTINGS SHALL BE PLANTED ONCE AFTER STABILIZATION OF CONTRIBUTING CHANNEL AREAS.
 7. MITLAND PLANTINGS SHALL BE LIMITED TO THE PERIOD OF APRIL 15 - JUNE 15, OR LATE SEPTEMBER TO MID-NOVEMBER. ONLY QUARRY NAME PLANTS FROM A HUNTER'S SHELF BE USED.
 8. ALL WOOD FLOOR MATERIAL SHALL BE PROVIDED IN CUBES THAT ARE APPROXIMATELY SIZE FOR THE SPECIFIED MITLAND REHABILITATION PLANT MATERIAL SIZE; BE PLUGS AND CONTAINERIZED PLANT MATERIALS SHALL BE GIVEN IN BAGS OF ONE QUARTER CUBIC YARD.
 9. WOOD PLANTING CLUSTERS SHALL BE WADDED TO A 1 QUOTER CUBE WITH A DIRT COCKLE, NO-GATO'S, OR PESTO BIRD WATCH.
 10. SUPPLEMENTAL MITLAND PLANTINGS SHALL BE CONCENTRATED IN CROPPLES, TO BE DETERMINED.
 11. HERBACEOUS PLANTINGS TO BE PLANTED ON CENTER, SPACING PLANTINGS TO BE 30' G.C. (REFERENCED UPON SPECIES).
 12. ALL TUBERS AND ROOT STOCK SHALL BE PLANTED TO TWO INCHES DEEP FOR THE DEEP GROWTH PLANT & SPACED AS SPECIFIED. PLANTS WITH CROSSING STEM SHALL BE PLANTED SO THAT THE CROSSING STEM EXTENDS ABOVE THE SITE SURFACE HEIGHTS OF MITLAND IN ROOT STOCK WITH ONE STEM AND/OR DORN FORTNIGHT MAY BE RECORDED & ESTABLISHED & PLANTED.
 13. NO SOIL IN THE RESTORATION MITLAND SHALL BE REFERRED WHEN DESIGNING MITLAND AND MITLAND SOIL MIXES AS NOTED IN PLANT LIST. ALL PLADS & SEEDS MUST BE SPECIFIED BY NEW ENGLAND MITLAND PLANTS INC. 200 N. 5TH ST. AMHERST, MA 01002 (413) 256-1252 OR APPROXIMATE EQUIVALENT.
 14. MITLAND PLANTING AREAS WILL BE INSPECTED ANNUALLY FOR THE FIRST FIVE YEARS FOLLOWING PLANTING TO IDENTIFY INVASIVE SPECIES AND A REPORT DETAILED TO RELATIVE SUCCESS OF THE MITIGATION PLAN IN TERMS OF BOTH THE HEALTH AND SURVIVAL OF MITLAND PLANTINGS SHALL BE PREPARED.
 15. ALL PLANT MATERIALS SHALL CARRY A ONE YEAR GUARANTEE FROM THE DATE OF ACCEPTANCE TO SECURE PRIMINARY TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNSATISFACTORABLE CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL AT THE SAME RATE AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
 16. MITLAND PLANTINGS SHALL BE IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE MULCHING, WEEDING, LIGHTING, WATERING, AND PLANTING OF NEW PLANTS. REPLACEMENT PLANTS TO PROTECT FROM SOIL LOSS DUE TO WINDS (MITLAND POSITION REQUIREMENT OF DRAINS AND ALL OTHER SITE NEEDS).



TYPICAL ALLUVIAL FLOODPLAIN WETLAND MITIGATION AREAS

15-30

WETLAND RESTORATION PLANTING PLAN		REVISIONS	
		7/26/2011	
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT			
HANOVER POND TO BALDWIN'S POND			
MERIDEN, CONNECTICUT			
THIS FORMATING PLAN IS NOT FOR CONSTRUCTION.			
M/J Dated	SAM Date	MJS MJS Excluded	
2011	1-20'		
DATE	FEB 2011		
PROJECT NO. 1261-14-20			
DESIGN NO.	14	EDITION	5A
MI-2			
S-1475 NO.			

MITIGATION AREAS 1, 2, 3, 4, 5, 9

HYDRIC FLOODPLAIN WETLAND AREAS							
SHADE TREES	REV	CITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				<i>Acer negundo</i>	Silver Maple	1.5"-4' CAL	BAB, FULL & DENSE
				<i>Acer saccharinum</i>	Sugar Maple	1.5"-4' CAL	BAB, FULL & DENSE
				<i>Betula nigra</i>	River Birch	3.5"-4' CAL	BBD, FULL & DENSE
				<i>Fraxinus americana</i>	Green Ash	3.5"-4' CAL	BAB, FULL & DENSE
				<i>Fraxinus baderae</i>	Swamp White Oak	3.5"-4' CAL	BAB, FULL & DENSE
				<i>Grewia occidentalis</i>	Guadalupe Oak	3.5"-4' CAL	BAB, FULL & DENSE
				<i>Populus nigra</i>	Black Willow	1.5"-4' CAL	BAB, FULL & DENSE
SHRUBS	REV	CITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				<i>Ardisia crenata</i>	Sweet Pepperbush	3 CAL	FULL & DENSE
				<i>Baccharis halimifolia</i>	Baccharis	3 CAL	FULL & DENSE
				<i>Cephaelis occidentalis</i>	Butterfly Bush	3 CAL	FULL & DENSE
				<i>Citharexylum spinosum</i>	Sweet Pepperbush	3 CAL	FULL & DENSE
				<i>Cornus amomum</i>	Silky Dogwood	3 CAL	FULL & DENSE
				<i>Cornus foemina</i>	Common Serviceberry	3 CAL	FULL & DENSE
				<i>Sassafras albidum</i>	Shrub Sassafras	3 CAL	FULL & DENSE
				<i>Sassafras elegans</i>	Sassafras	3 CAL	FULL & DENSE
				<i>Sassafras tzumu</i>	Sassafras	3 CAL	FULL & DENSE
				<i>Sophora secundiflora</i>	Southern Red Buckeye	3 CAL	FULL & DENSE
				<i>Vaccinium corymbosum</i>	Highbush Blueberry	3 CAL	FULL & DENSE
				<i>Vaccinium dentatum</i>	Northern Arrowleaf	3 CAL	FULL & DENSE
				<i>Vaccinium pensylvanicum</i>	Lowbush Blueberry	3 CAL	FULL & DENSE
HERBACEOUS PLUGS	REV	CITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE/CONDITION	COMMENTS
				<i>Aconitum americanum</i>	American Monkshood	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Coreopsis auriculata</i>	Whirling Snaps	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Coreopsis verticillata</i>	Whorled Snaps	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Coreopsis tripteris</i>	Swamp Snaps	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Coreopsis venosa</i>	Breasted Snaps	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Juncus effusus</i>	Soft Rush	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Lathyrus palustris</i>	Marsh Vetch	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Schoenoplectus tabernaemontani</i>	Salt Stem Bulrush	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Sesuvium portulacastrum</i>	Sea Square Rush	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Thlaspi perfoliatum</i>	Mustard	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Thlaspi rotundifolium</i>	Mustard	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Thlaspi rotundifolium</i>	Mustard	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Septebraria mucronata</i>	Duck Potomac	PLUG	USE STAPLES TO HOLD IN PLUGS
				<i>Scirpus cyperinus</i>	Mudgrass	PLUG	USE STAPLES TO HOLD IN PLUGS

NOTE: PLANT QUANTITIES WILL BE DETERMINED DURING PLANT DESIGN

MITIGATION AREAS 6, 7, 8

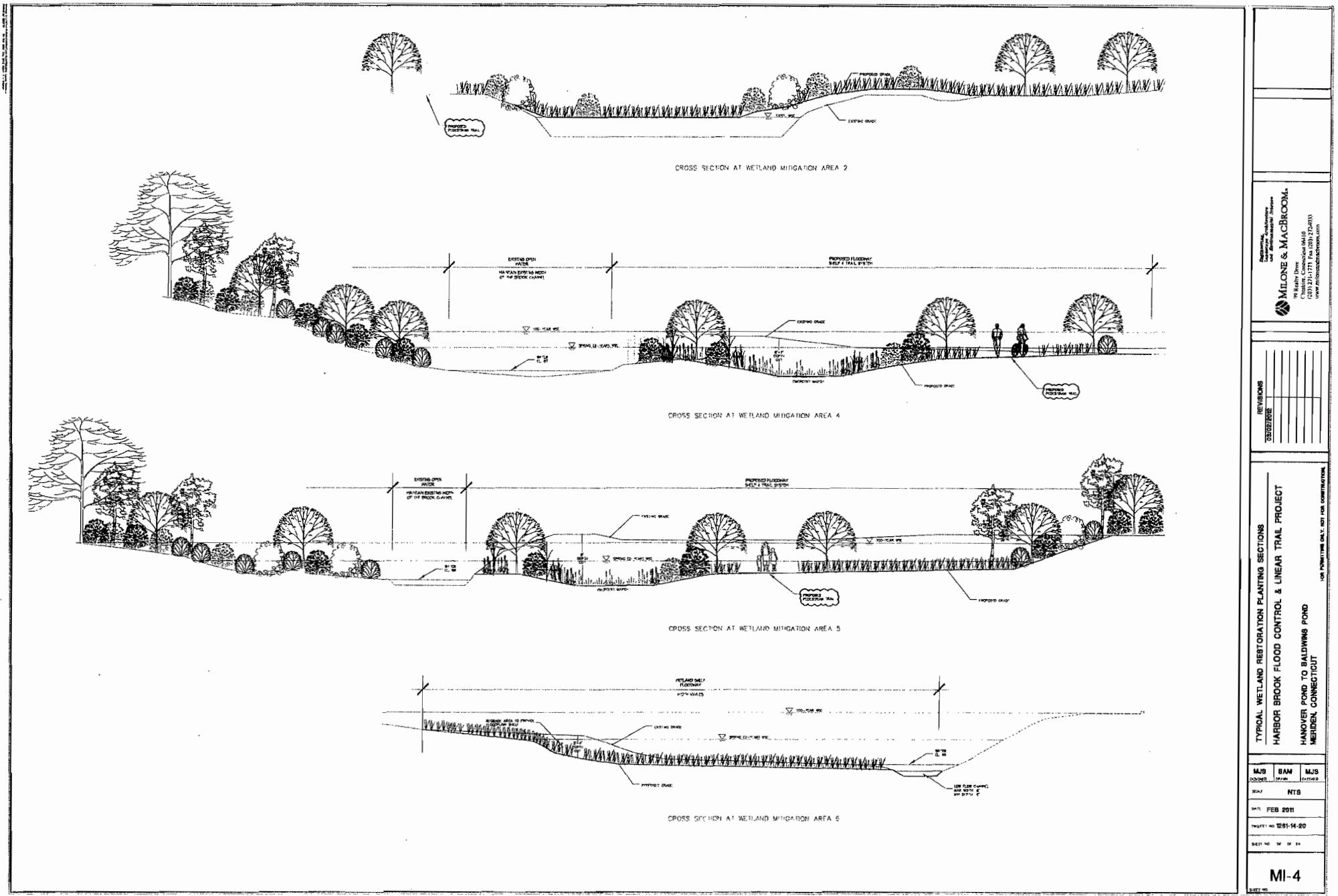
ALLUVIAL FLOODPLAIN WETLAND AREAS							
SHADE TREES	REV	GTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				Acer nigrum	Bird Maple	3.5"-4" CAL	BARE, FULL & DENSE
				Acer saccharinum	Silver Maple	3.5"-4" CAL	BARE, FULL & DENSE
				Pistacia lentiscus	American Sycamore	3.5"-4" CAL	BARE, FULL & DENSE
				Prunus pensylvanica	Eastern Cat-tail	3.5"-4" CAL	BARE, FULL & DENSE
				Ostrya virginiana	Swamp White Oak	3.5"-4" CAL	BARE, FULL & DENSE
				Drimys wintera	Pin Oak	3.5"-4" CAL	BARE, FULL & DENSE
				Sapium sebiferum	Buck Willow	3.5"-4" CAL	BARE, FULL & DENSE
TREE SAPLINGS	REV	GTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				Acer negundo	Maple	5"-6" HT	CONTAINER
				Acer nigrum	Bird Maple	5"-6" HT	CONTAINER
				Acer saccharinum	Silver Maple	5"-6" HT	CONTAINER
				Betula populifolia	Gray Birch	5"-6" HT	CONTAINER
				Betula alleghaniensis	White Birch	5"-6" HT	CONTAINER
				Platanus occidentalis	American Sycamore	5"-6" HT	CONTAINER
				Populus tremuloides	Eastern Cat-tail	5"-6" HT	CONTAINER
				Quercus rubra	Swamp White Oak	5"-6" HT	CONTAINER
				Prunus pensylvanica	Pin Oak	5"-6" HT	CONTAINER
				Sapium sebiferum	Buck Willow	5"-6" HT	CONTAINER
SHRUBS	REV	GTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				Ailanthus altissima	Sapindaceae	3 CAL	FULL & DENSE
				Amelanchier alnifolia	Shadberry	3 CAL	FULL & DENSE
				Clethra alnifolia	Sweet Pepper-leaf	3 CAL	FULL & DENSE
				Carpinus caroliniana	Savoy Dropwood	3 CAL	FULL & DENSE
				Comus virginicus	Garry Dogwood	3 CAL	FULL & DENSE
				Corylus americana	Common Hazel	3 CAL	FULL & DENSE
				Salix eriocephala	Snow Bell Willow	3 CAL	FULL & DENSE
				Salix exigua	Sand Bar Willow	3 CAL	FULL & DENSE
				Spiraea lucida	Meadowweet	3 CAL	FULL & DENSE
				Vaccinium corymbosum	Northern Arrow-wood	3 CAL	FULL & DENSE
				Vaccinium dentatum	Mountain Cranberry	3 CAL	FULL & DENSE
				Vaccinium vitis-idaea	Whortleberry	3 CAL	FULL & DENSE
				Vaccinium vitis-idaea	Huckleberry	3 CAL	FULL & DENSE
HERBACEOUS PLUGS	REV	GTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
				Montia fontana	Orichet Fern	PLUG	USE STAPLES TO HOLD IN PLUGS

**RECOMMENDED APPLICATION RATE:
(1000 SQUARE FEET, 1 LB.)**

NEW BORN, INFECTED CONTROL TREATMENT MIX FOR DEFENSIVE PARASITES AND HORSE SECTS.
SEED MIX Species: Schizanthus (Schizanthus virginicus), Knapweed Wild Rose (Dipsacus virginicus), Creeping Red
Fucus (Fucus vesiculosus), Yer Sedge (Carex vulpinoidea), Creeping Bellflower (Camassia esculenta), Soft Rush
(Juncus effusus), New England Aster (Aster novae-angliae), Grass-leaved Goldenrod (Solidago gigantea),
Grass-leaved Goldenrod (Solidago gigantea), Green Banksia (Schoenus americanus), Blackfoot (Erythronium
gramineum), Green Banksia (Schoenus americanus), Blackfoot (Erythronium glaucomorphum), One-flowered Valerian (Valeriana
uniflora) Upland Bellflower (Platycodon grandiflorus), Big Bluebell (Mertensia paniculata), Prairie Star (Thlaspi
virginicum)

46-2 PLANT DIMENSIONS SHALL BE DETERMINED DURING FINAL DESIGN

MI-3		
 MILONE & MACBROOM, <small>Engineering, Architecture, Construction, Land Surveying, Environmental, Geotechnical, and Project Management Services</small>		
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT HANOVER POND TO SALTWATER POND MERIDEN, CONNECTICUT		
MJS BAM MJS <small>2009 2010 2011</small> DATE: FEB 2011 PROJECT #: 1281-16-20 EDITION NO. 37 OF 64		
REVISIONS <hr/> <hr/> <hr/> <hr/> <hr/>		
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HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

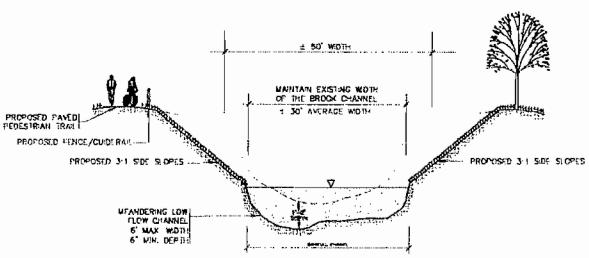
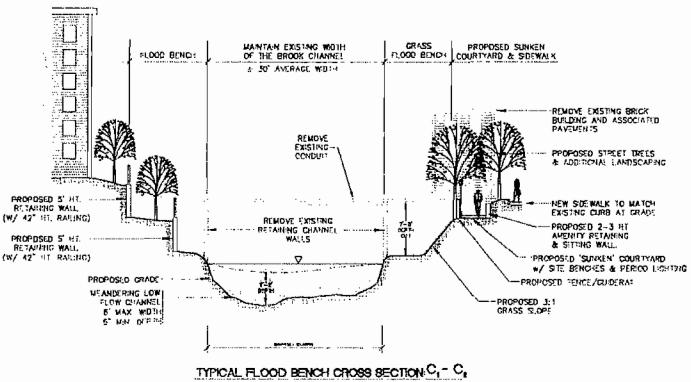
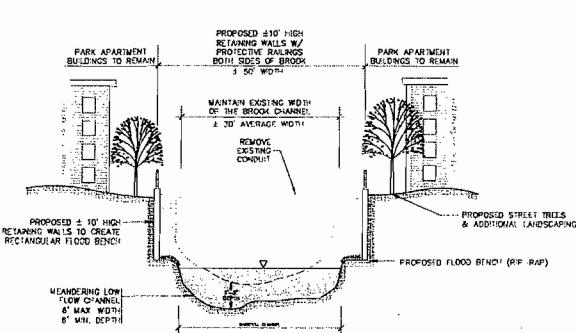
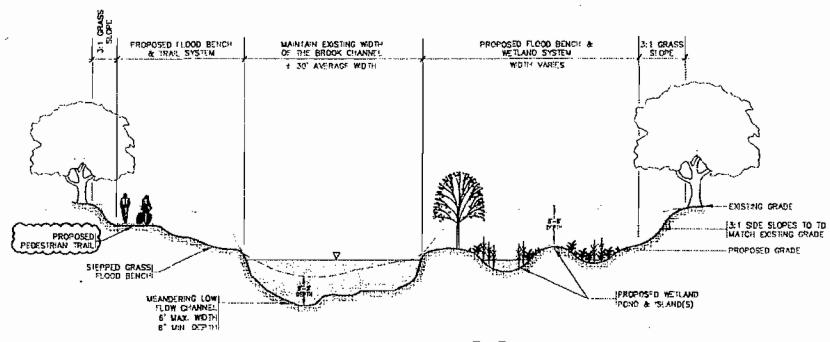
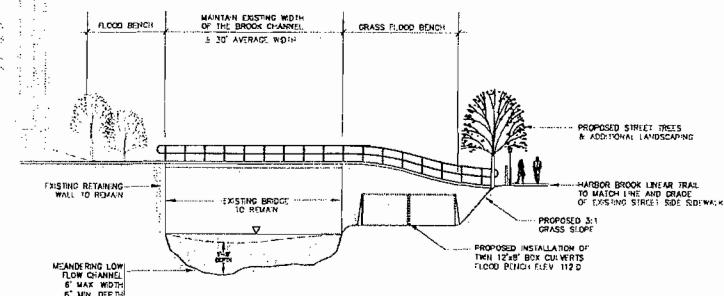
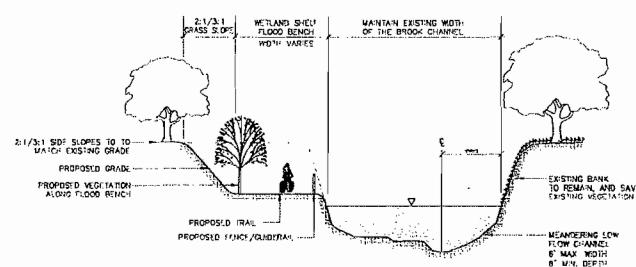
HARBOR BRIDGE FLOOD COURSE & LINEAR THAL PROJECT

TYPICAL WETLAND REINTEGRATION PLANTING SECTIONS

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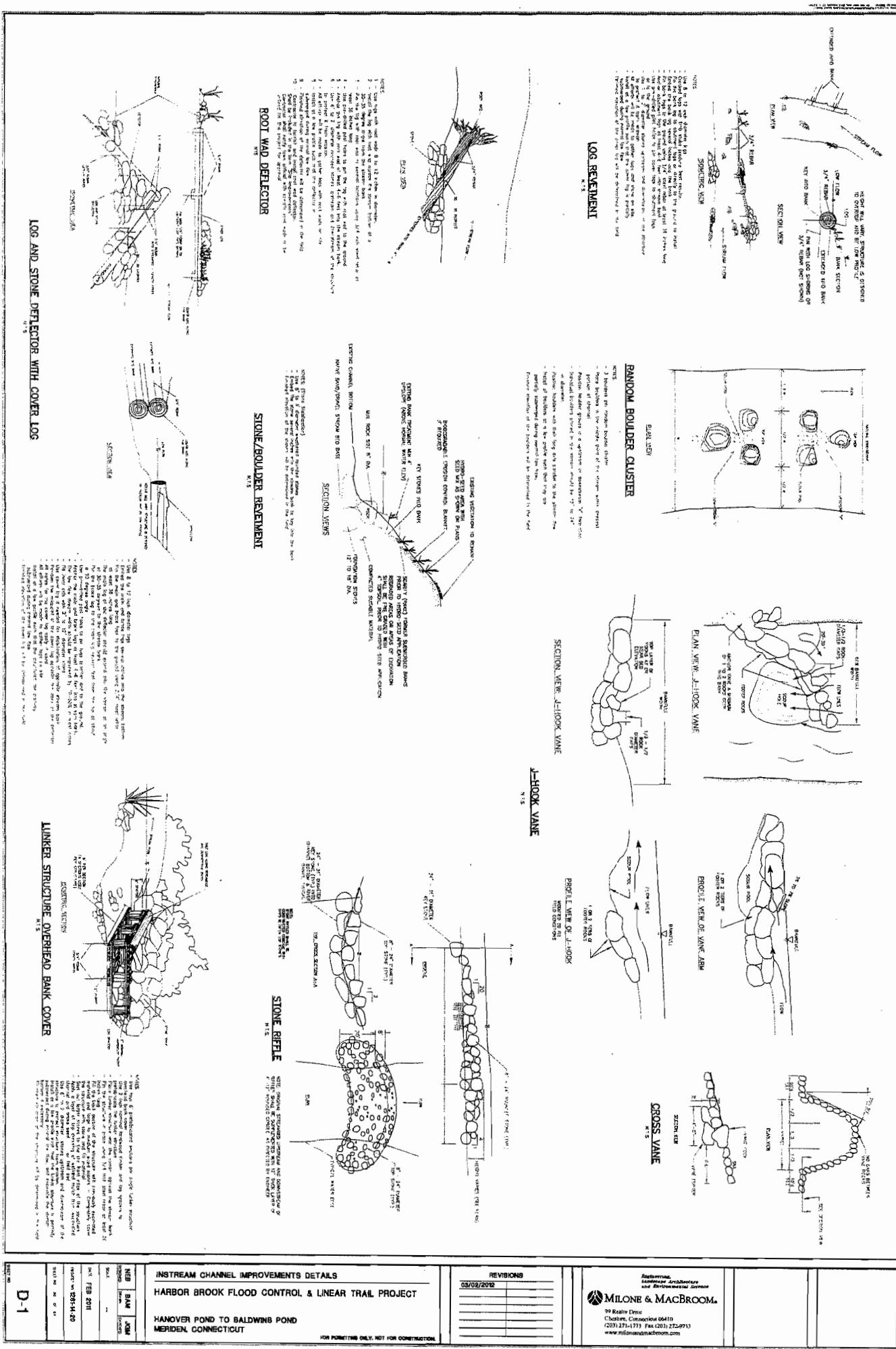
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DATE FEB 2011		
INVEST NO 1281-14-20		
SERIAL NO 04 DE 04		
MATERIAL		
MI-4		
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TYPICAL CROSS SECTIONS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWIN POND
MERIDEN, CONNECTICUT

FOR PUBLICATION ONLY, NOT FOR CONSTRUCTION

NEB	BAM	JOM
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SCALE	NTS	
DATE	FEB 2011	
PROJECT NO.	20814-20	
Sheet No.	48	of 84
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	INSTREAM CHANNEL IMPROVEMENTS DETAILS				REVISIONS			
	HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT				03/02/2012			
NEB BAM DODGE SCHWARTZ	BAM DODGE	SCHWARTZ						
Spur 1 FEB 2011								
WORK NO. 20514-20								
SELLING NO. 0000								
D-1								
FOR PERMITTING ONLY, NOT FOR CONSTRUCTION.						 MILONE & MACBROOM_® 99 River Drive Chester, Connecticut 06419 (203) 272-1711 Fax (203) 272-9913 www.miloneandmacbroom.com		

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL: THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY CONSTRUCTION ACTIVITIES WHICH MAY REQUIRE MEASURES TO PREVENT WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION PHASE.

In general, all construction activities shall proceed in such a manner so as not to pollute any streams, watercourses, waterways, and other surface waters or any material shall be handled as possible to prevent any pollution or sedimentation. Proper construction methods and measures shall prevent permanent and temporary pollution from entering any stream, watercourse, waterway, and other surface waters, and waterways, and to prevent, if possible, erosion on site.

LAND GRADING

GENERAL:
1. THE INHIBITION OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR CONSTRUCTION OF TERRAIN PLANNED CHANGES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

1. THE OUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (1:1).
2. DUE TO THE DRAINED CONDITIONS, THE FILL SLOPES MUST NOT BE STEEPER THAN ONE HORIZONTAL TO ONE VERTICAL (1:1).
3. THE OUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
4. PROVISION SHOULD BE MADE TO CONDUCE SURFACE WATER SAFELY TO STREAMS AND OTHER SURFACE BODYWATER DRAINAGE CUT FACES AND TELL SLOPES.
5. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PREVIOUSLY LIVED IN EXCAVATOR ADJUSTING PRIORITY WITHOUT PROTECTIVE SHAW DRAINS AND FILTERS.
6. NO TELL SLOPES OR FILL SLOPES OR FILTERS SHALL BE PLACED ON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT INLAWA, WATERCOURSES, OR WATERWAYS.
7. PRIOR TO ANY CONSTRUCTION, STAKE OUT FOR CONSTRUCTION OF PERMANENT FEATURES AND THE ALLOWANCE TO WORK AREA IN CASE OF REOPEN MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:
1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ACCORD TO THE TYPE, SIZE, AND COLOR OF THE SOIL CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.

2. UNTIL ATTAINING FINAL SURFACE, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.

3. REMOVE ALL SURFACE DEBRIS, FRIE, FABRIC, ROOTS AND CONSTRUCTION DEBRIS, AND LARGEST MATERIAL, ACCORDING TO STP. TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.

2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.

3. TOPSOIL SHOULD BE RELATIVELY FREE OF SULFUR, MATERIAL, AND MUST NOT CONTAIN ANY SUBSTANCES WHICH CAN DAMAGE THE SOIL, PLANTS, TREES, FOLIAGE, OR CONSTRUCTION DEBRIS. IT SHOULD NOT BE FREE OF ROOTS OR RHIZOMES SUCH AS THINNLE, IRISHMUS, AND QUACKGRASS.

4. AN APPROPRIATE AMOUNT OF SOIL PERCENT (5%) IS REQUIRED TO ENSURE ADEQUATE SURFACE COVERAGE.

5. SOLUBLE SALT CONTENT OF OVER .500 PARTS PER MILLION (PPM) IS LESS DESIRABLE. AVOID TOTAL SALINITY TOTALS GREATER THAN 400 PPM. IF THIS IS UNAVOIDABLE, ADD 10% TO 20% MORE TOPSOIL THAN 80% TO 100% AND TRY TO INCREASE UP TO AN ACCEPTABLE LEVEL.

APPLICATION:

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORM TO A DEPTH OF AT LEAST FOUR INCHES (4"), OR TO THE DEPTH SHOWN ON THE LANDSCAPE PLANS.

TEMPORARY VEGETATIVE COVER

GENERAL:

1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE STREAMS WHERE FINAL DRAINAGE HAS BEEN DIVERTED, OR ON AREAS WHERE THE EXPOSED SOIL IS SUBJECT TO EXPOSURE IN LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOGGED, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. STREAMS SHOULD ACTIVELY REASONABLY UNIFORM LOOSE SEEDED WORK ON COMMON SLOPES UP TO 10%.

ESTABLISHMENT:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION, ANNUAL RATES AND SOWING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.

3. USE COV. GRASS AND LIGUM SETS WITH NO MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT HYDRAULIC).
4. COVER GRASS AND LIGUM SETS WITH NO MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT HYDRAULIC).

5. MULCH MAINTAINLY AFTER SEEDING, IF REQUIRED, ACCORDING TO VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION (4%).
6. USE PROPER INGREDIENTS ON ALL LEGUME SPECIES, USE FOUR (4) TONS HORSE PASTURE WHEN HYDRAULIC.

7. USE SOIL WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND "W" TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LINE AS INDICATED.
8. ON SOILS WHICH GROWSS PREDOMINANTLY, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7.5 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.

9. USE SOILS WHICH GROWSS PREDOMINANTLY, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7.5 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS AND TESTS D-20-20-20 FERTILIZING PER ACRE (10 LBS. PER 1,000 SQ. FT.).

10. USE SOILS WHICH GROWSS PREDOMINANTLY TO GET A QUICK VEGETATIVE COVER TO PREVENT FROSTING.

11. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LINE AS INDICATED.

12. ON SOILS WHICH GROWSS PREDOMINANTLY, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7.5 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.

13. USE SOILS WHICH GROWSS PREDOMINANTLY, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7.5 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS AND TESTS D-20-20-20 FERTILIZING PER ACRE (10 LBS. PER 1,000 SQ. FT.).

14. USE SOILS WHICH GROWSS PREDOMINANTLY, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7.5 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.

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TEMPORARY VEGETATIVE COVER

GENERAL:

1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE STREAMS WHERE FINAL DRAINAGE HAS BEEN DIVERTED, OR ON AREAS WHERE THE EXPOSED SOIL IS SUBJECT TO EXPOSURE IN LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOGGED, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. STREAMS SHOULD ACTIVELY REASONABLY UNIFORM LOOSE SEEDED WORK ON COMMON SLOPES UP TO 10%.

4. SEED SHALL BE UNIFORMLY APPLIED TO THE SLOPES ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.

5. USE COV. GRASS AND LIGUM SETS WITH NO MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT HYDRAULIC).

6. COVER GRASS AND LIGUM SETS WITH NO MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT HYDRAULIC).

7. MULCH MAINTAINLY AFTER SEEDING, IF REQUIRED, ACCORDING TO VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION (4%).

8. USE PROPER INGREDIENTS ON ALL LEGUME SPECIES, USE FOUR (4) TONS HORSE PASTURE WHEN HYDRAULIC.

9. USE SOIL WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND "W" TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LINE AS INDICATED.

10. ON SOILS WHICH GROWSS PREDOMINANTLY, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7.5 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.

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ALL FISHERY AND IN-STREAM HABITAT IMPROVEMENTS SHALL BE REVIEWED AND APPROVED BY CT DEEP-FISHERY BIOLOGISTS PRIOR TO CONSTRUCTION.

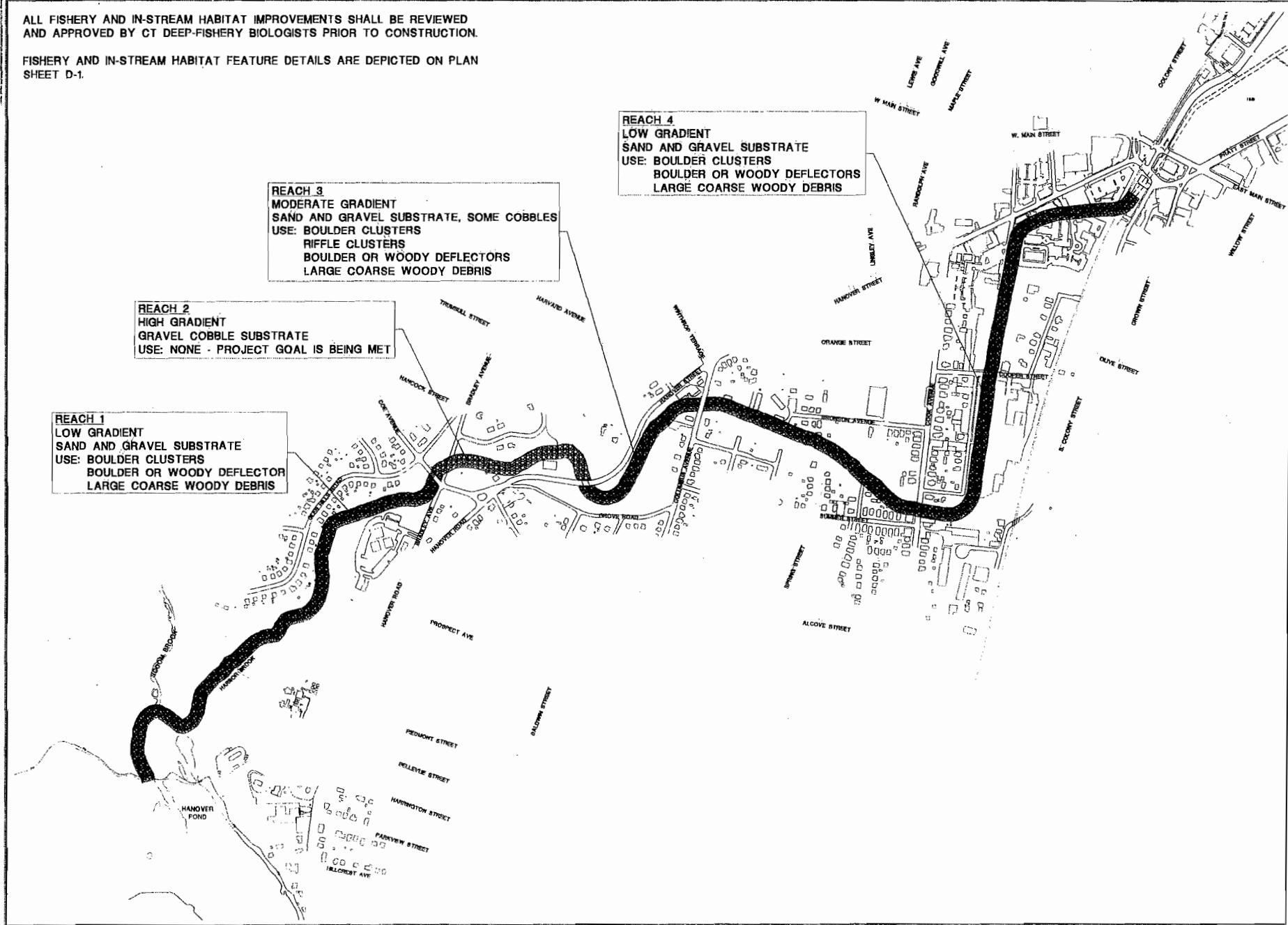
FISHERY AND IN-STREAM HABITAT FEATURE DETAILS ARE DEPICTED ON PLAN SHEET D-1.

REACH 3
MODERATE GRADIENT
SAND AND GRAVEL SUBSTRATE, SOME COBBLES
USE: BOULDER CLUSTERS
RIFLE CLUSTERS
BOULDER OR WOODY DEFLECTORS
LARGE COARSE WOODY DEBRIS

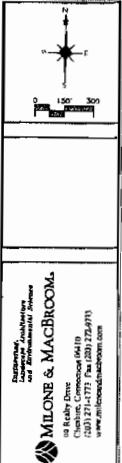
REACH 2
HIGH GRADIENT
GRAVEL COBBLE SUBSTRATE
USE: NONE - PROJECT GOAL IS BEING MET

REACH 1
LOW GRADIENT
SAND AND GRAVEL SUBSTRATE
USE: BOULDER CLUSTERS
BOULDER OR WOODY DEFLECTOR
LARGE COARSE WOODY DEBRIS

REACH 4
LOW GRADIENT
SAND AND GRAVEL SUBSTRATE
USE: BOULDER CLUSTERS
BOULDER OR WOODY DEFLECTORS
LARGE COARSE WOODY DEBRIS

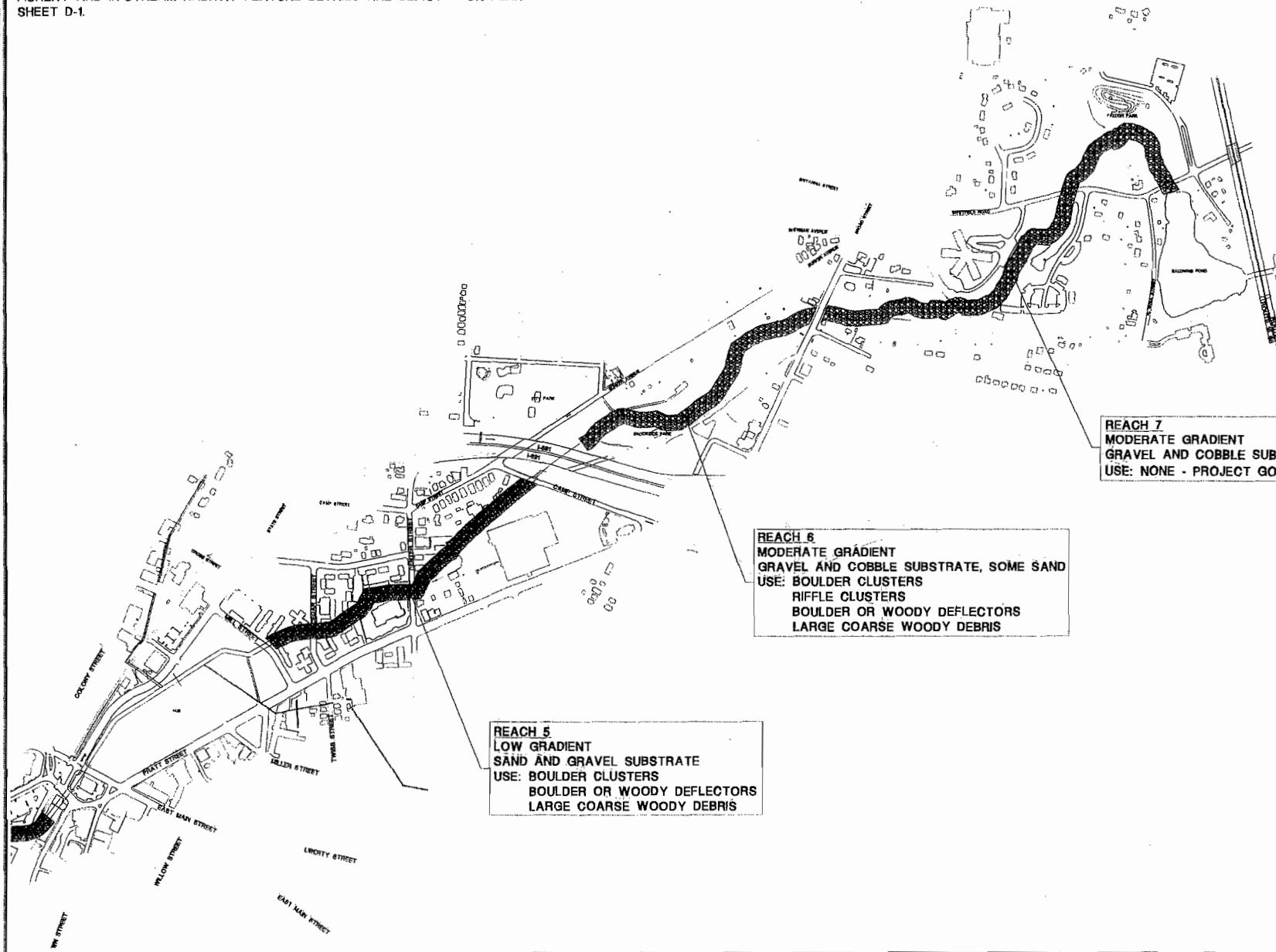


REVISIONS	REVISIONS
SUPERSEDES	SUPERSEDES
FISHERY AND IN-STREAM FEATURE RESTORATION PLAN	
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT	
HANOVER FOND TO BALDWIN POND	
MERIDEN, CONNECTICUT	
NEB ISSUED BY	BAM ISSUED BY
YEAR	JGM ISSUED BY
T=300'	
DATE	FEB 2011
PROJECT NO 1281-14-20	
SHEET NO 11 OF 14	
H-1	



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FISHERY AND IN-STREAM HABITAT FEATURE DETAILS ARE DEPICTED ON PLAN
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FISHERY AND IN-STREAM FEATURE RESTORATION PLAN		
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HANOVER POND TO BALDWIN POND		
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NEB DRAFTED	BAM DRAWN	JGM CHECKED
SIGN:	T=300'	
SAT:	FEB 2011	
PROJECT NO. 1081-14-20		
DET NO:	43	OF 44
H-2		
DET NO:		

