## PUBLIC NOTICE

US Army Corps of Engineers R New England District 696 Virginia Road Concord, MA 01742-2751 Comment Period Begins: December 17, 2013 Comment Period Ends: January 17, 2014

File Number: NAE-2013-2380 In Reply Refer To: Lindsay Flieger

**Phone:** (978) 318-8656

E-mail: Lindsay.Flieger@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 Bristol- Department of Public Works

**ACTIVITY** To widen and stabilize Coppermine Brook in order to improve flooding conditions. A detailed description and plans of the activity are attached.

#### WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in Coppermine Brook in the area to the northeast of the Mix Street and Farmington Avenue (Route 6) intersection in Bristol, Connecticut. The proposed location on the USGS Bristol quadrangle sheet is at Lat/Long coordinates 41.414069 N and -72.545153 W.

#### **AUTHORITY**

Perm	its are required pursuant to:
	Section 10 of the Rivers and Harbors Act of 1899
<u>X</u>	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

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also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

#### **SECTION 106 COORDINATION**

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

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

#### 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 States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved **Coastal Zone Management Programs**. Where applicable the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

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

- ( ) 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 Lindsay Flieger at (978) 318-8656, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

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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.

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 <a href="mailto:bettina.m.chaisson@usace.army.mil">bettina.m.chaisson@usace.army.mil</a>. 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:	

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#### PROPOSED WORK AND PURPOSE

This work includes widening a segment of Coppermine Brook in Bristol, Connecticut in order to reduce flooding impacts to surrounding commercial and residential properties. Work also includes the discharge of fill material into the brook and stabilization of the adjacent streambank.

The City of Bristol is seeking to widen both sides Coppermine Brook, from the area immediately upstream of Farmington Avenue to the area just north of the Staples property line (as shown on plan sheet EX-1). The expansion of the brook will increase flow capacity and thereby reduce water surface elevations during lower storm events; approximately 0.3-0.5 feet during the 2-year storm event and 0.2-0.4 feet during the 10-year storm event. During the 100-year storm event, the decrease will be approximately 0.1 feet.

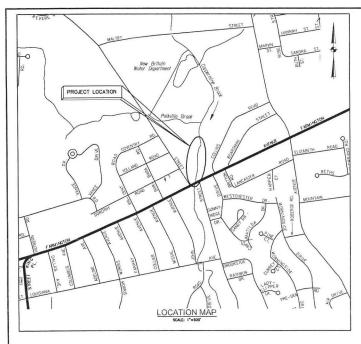
Two to three rows of gabions will be installed along the widened channel limits to stabilize the side slopes and maximize the channel width; cofferdams will be used to dewater sections of the brook during the gabion installation. Due to elevation changes along the watercourse, the rows of gabions will vary depending on site conditions. Approximately 70 cubic yards of material will be excavated from 0.111 acres of the brook, and approximately 90 cubic yards of material will be excavated from 0.039 acres of wetland. Any suitable soil that is removed will be stored for on-site reuse.

After the gabions are installed, natural bottom material will be placed from the end of the gabion levelling pad to the existing channel bed. Previous excavated material will be used and supplemented with additional material where necessary. Approximately 40 cubic yards of material will be placed within the existing watercourse and approximately 40 cubic yards of material will be placed within the existing wetland limit.

The work is described on the enclosed plans entitled "Construction Plans for Coppermine brook Flood Control Improvements in the City of Bristol," on ten sheets, and dated "04/08/13."

#### **MITIGATION**

As shown on plan sheet "LL-1", a row of shrubs will be installed along the gabion walls to compensate for lost shading over Coppermine Brook. In addition, plantings are proposed at the northern limits of the project to replace the functions and values lost by the proposed channel improvements. The wetland system north of the Staples property line will be avoided entirely and previously excavated stones sized between 8"-12" will be placed on the streambed to mimic natural streambed material and therefore minimize impacts to stream wildlife.



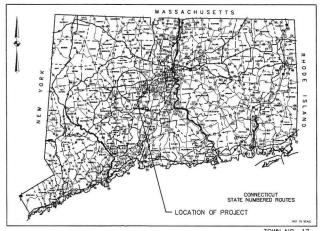
## CONSTRUCTION PLANS FOR

### COPPERMINE BROOK FLOOD CONTROL IMPROVEMENTS

IN THE CITY OF

BRISTOL, CONNECTICUT

DESIGN CROSS SECTIONS HORIZ. 1"=10' VER. 1"=10'
OTHER SCALES AS NOTED



TOWN NO. 17

2004 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 816, INCLUDING ALL SUPPLEMENTS THERETO.

ALL HORIZONTAL GEOMETRY ON THIS PROJECT BASED ON NAD 83.

ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD 88.

PERMIT REVIEW
NOT FOR CONSTRUCTION

ENVIRONMENTAL PERMIT SUBMISSION OCTOBER 11, 2013

		LIST	OF	DRAWINGS	
HEET NO.	TITLE				
T-1	TITLE SHEET				
EX-1	IMPROVEMENT LOCATION SURVEY				
DET-1	MISCELLANEOUS DETAILS				
DET-2	MISCELLANEOUS DETAILS				
SP-1	CONSTRUCTION PLAN				
SP-2	WATER HANDLING PLAN				
LL-1	LANDSCAPE PLAN				
XS-1	CROSS SECTIONS				
XS-2	CROSS SECTIONS				
XS-3	CROSS SECTIONS				



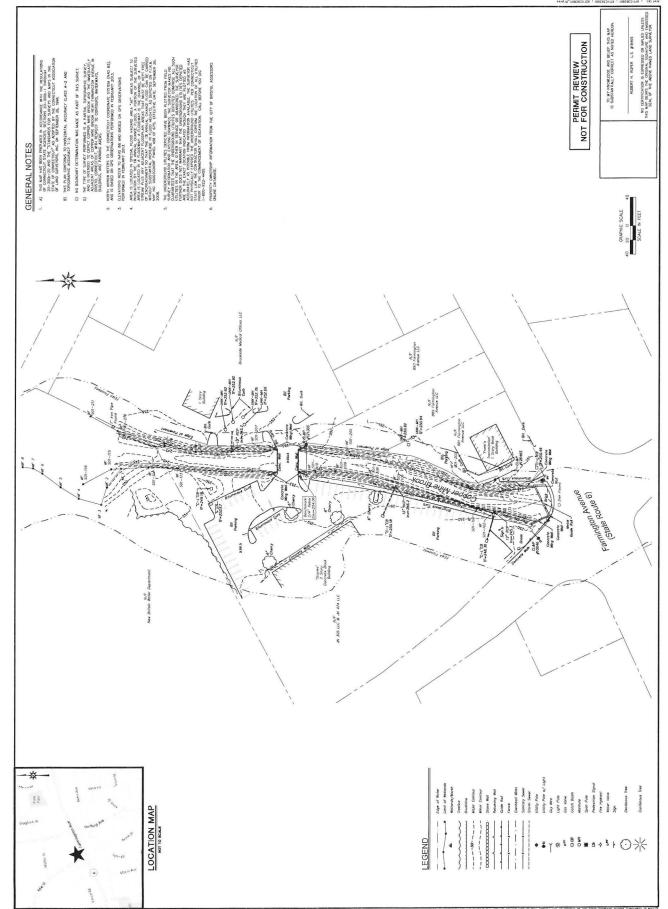
355 RESEARCH PARKWAY MERIDEN, CONNECTICUT 06450 (203) 630-1406 (203) 630-2615 Fax

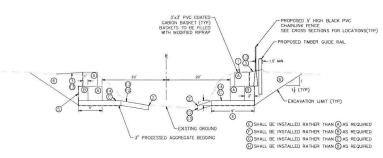
PER DEREK A. KOHL, P.E. DIRECTOR OF ENGINEERING CT PROFESSIONAL ENGINEER NO. 21417

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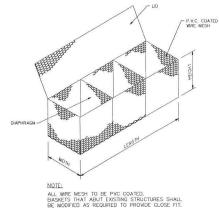
07, 2013 6 11pm DCide G. LOBS11/11C3839/DWZ/1T341/CJBJB01.8aut: TTL SHEET

# COPPERMINE BROOK BRISTOL, CONTRECTICUT COPPERMINE BROOK



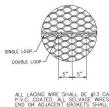


TYPICAL SECTION - 6' HIGH GABION WALL



-PROPOSED 5' HIGH BLACK PVC CHAINLINK FENCE SEE CROSS SECTIONS FOR LOCATIONS(TYP)

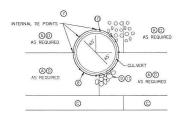
INTERIOR GABION TIE DETAIL



GABION BASKETS

GABION LACING DETAILS

TYPICAL GABION DETAILS



CULVERT THROUGH GABION WALL

CODE	SIZE					
F SIZE	LENGTH	WIDTH	HEIGHT			
А	12'	3'	3'			
В	12'	2'	3,			
C	12*	3*	1'			
0	12"	3'	1.5'			
Ε	9*	3'	3'			
F	9'	3'	3'			
G	9'	2'	Ť.			
н	9'	2'	1.5			

- SEE TABLE 1 FOR GABION BASKET SIZE CODES.
- ② CHANNEL EXCAVATION LIMITS.
- 3 4" TOPSOIL WITH LOW MAINTENANCE SEED MIX.
- TYPICAL DISTANCE, SEE PLANS FOR VARIATIONS.
- (5) FILTER FABRIC MIRAFI 140, PROPEX 4545 OR APPROVED EQUAL.
- 6 PERMOUS STRUCTURE BACKFILL.
- 3 8 INTERNAL TIES, EVENLY SPACED AROUND THE O.D. OF THE CULVERT.
- PRE-CUT GABION FABRIC SUCH THAT A GAP OF NO MORE THAN 1 EXISTS BETWEEN THE OUTSIDE SURFACE OF THE CULVERT AND THE EDGE OF THE GABION FABRIC.
- PLACE STONE IN CABION BASKETS (PRIOR TO PLACEMENT OF CULVERT) IN A CRADLE SHAPE CONFORMING TO THE OUTSIDE SHAPE OF THE CULVERT, PREPARE THE BOTTOM LEVEL (CUTTION BASKET, INSTALLING TIE WRESS AND PLACING STONE) AND LAY PIPE IN STONE CRADLE CONSTRUCT THE SECOND LEVEL, OF GABOING STRIPE CULVERT HAS BEEN MSTALLED, PLACE INTERIOR THE WRITES WHILE MAND PLACING STONE ARROAD CULVERT.
- @ EXTEND CULVERT 2" OUTSIDE GABION WALLS.
- MATERIALS AND CONSTRUCTION METHODS FOR STONE FILL FOR GABIONS SHALL BE IN STRICT CONFORMANCE WITH THE SPECIFICATIONS. MINNAM STONE SZE SHALL BE 4" WITH NO STONE LARGER THAN 8". STONES PLACED ACAINST THE BASKET FABRIC SHALL BE DONE BY HAND WITH THE FLAT FACE ACAINST THE STONES PLACED WITH THE PLATE FACE ACAINST THE THE STONES PLACED WITH THE PLATE FACE ACAINST THE FACE THAN STONES PLACED ACAINST THE STANES THAN WITH THE FLAT FACE ACAINST THE FAC
- 12" CHANNEL BOTTOM MATERIAL SEE "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL" SPECIFICATION FOR DETAILS.
   GRADE VARIES, SEE CROSS SECTIONS.
- EXISTING STREAMBED STONE SIZED 8" TO 12" RANDOMLY PLACED ON TOP OF GABION LEVELING PAD.

ABO DENOTES CODE OF SIZE, SEE TABLE 1.

PERMIT REVIEW NOT FOR CONSTRUCTION Companies

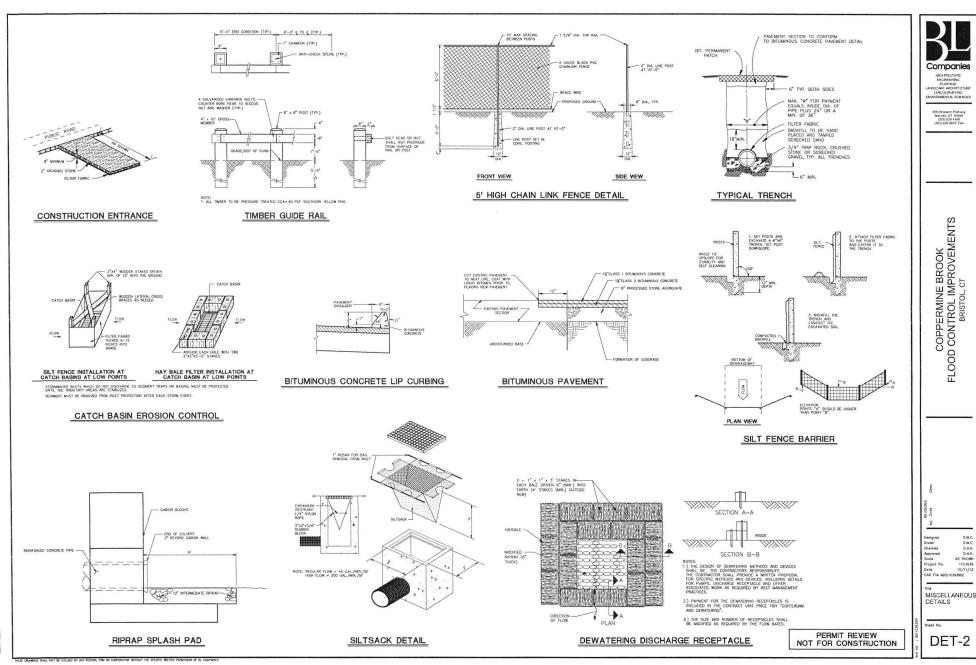
355 Research Parkway Merican, CT 08450 (203) 630-1406 (203) 630-2615 Fax

COPPERMINE BROOK
CONTROL IMPROVEMENTS
BRISTOL, CT FLOOD

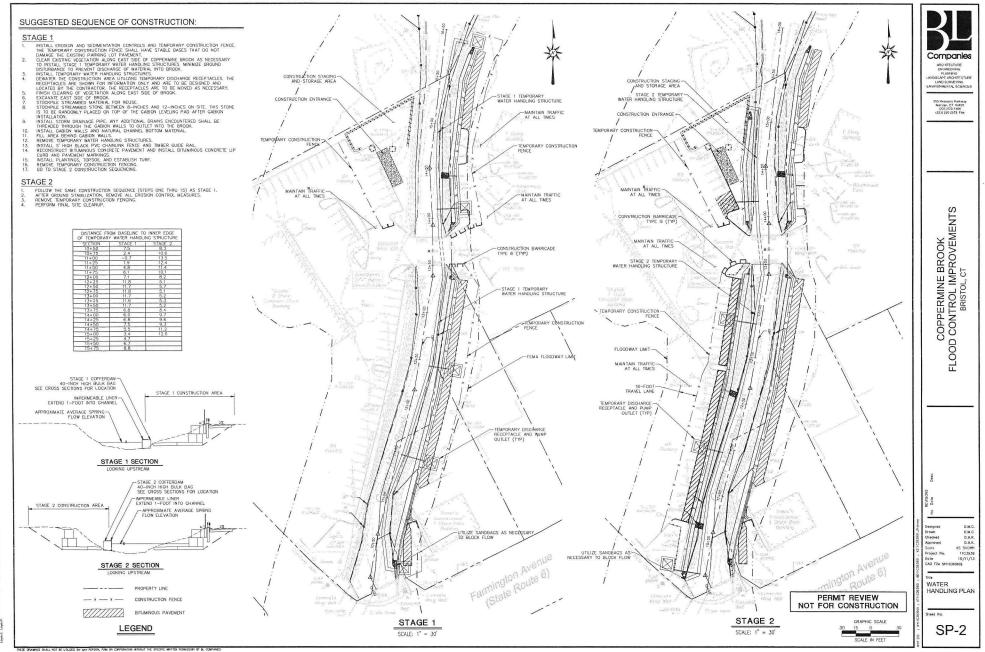
GABION DETAILS

Sheet No.

DET-1



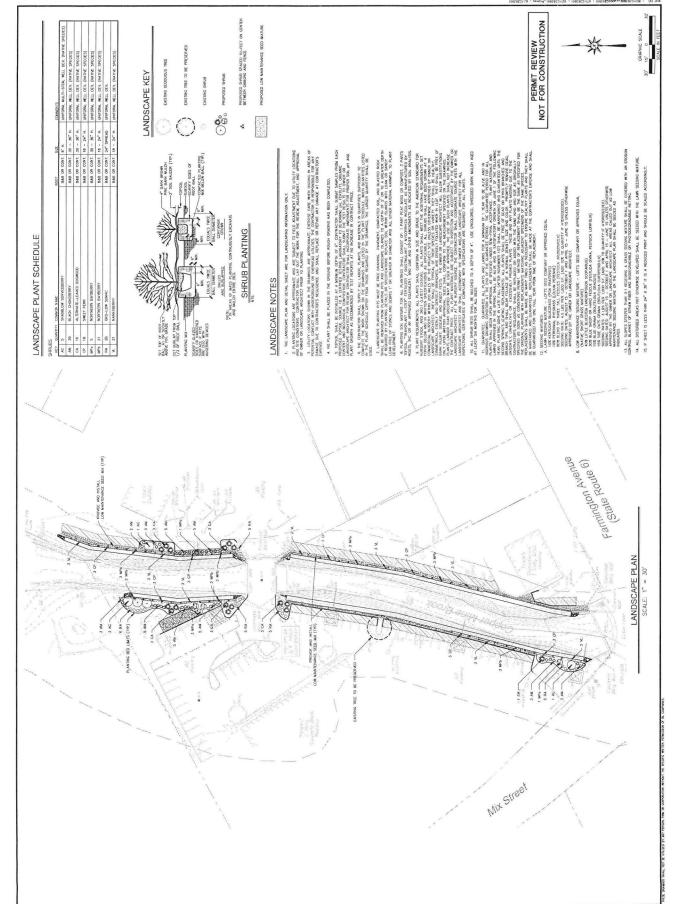
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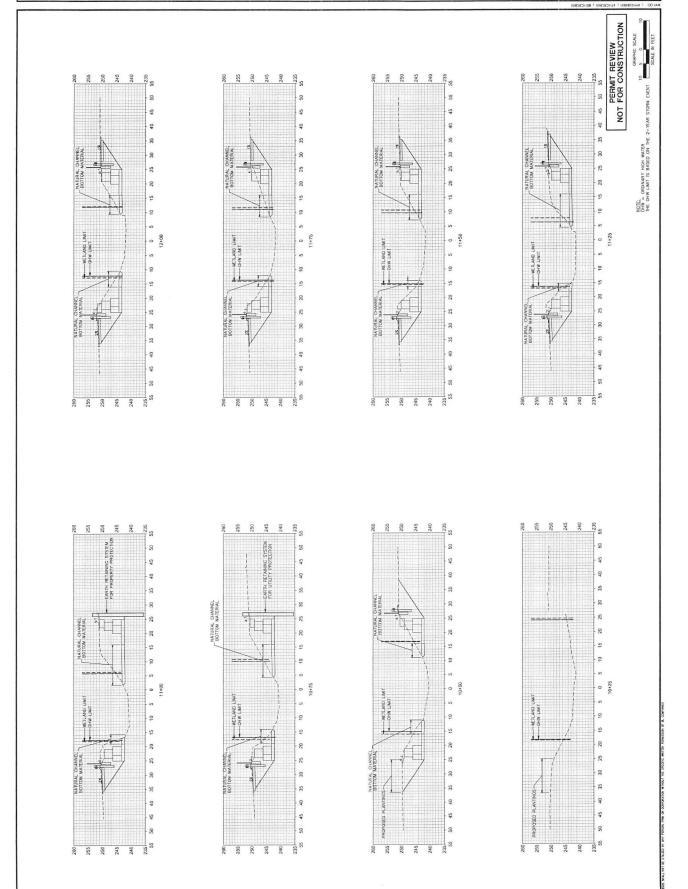
# COPPERMINE BRISTOL, CT REPLACE TO CONTROL IMPROVEMENTS REPLACE T











XS-1



### EFOOD CONTROL IMPROVEMENTS COPPERMINE BROOK

