



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

# PUBLIC NOTICE

696 Virginia Road  
Concord, MA 01742-2751

**Date: December 21, 2007**  
**Comment Period Ends: January 21, 2008**  
**File Number: NAE-2006-2242**  
**In Reply Refer To: John Sargent**  
**Or by e-mail: John.C.Sargent@usace.army.mil**

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

## APPLICANT

City of North Adams Airport Commission  
Attn: Alfred Dougherty  
10 Main Street  
North Adams, Massachusetts 01247

## ACTIVITY

Construction of a runway safety area, culvert replacements, and reconstruction of runway and taxiways. A detailed description and plans of the applicant's activity are attached.

## WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in Paull Brook and Tributaries and associated wetlands in the Hoosic River drainage at Harriman and West Airport, State Road, North Adams and Williamstown, Massachusetts. The proposed location on the USGS North Adams quadrangle sheet is at UTM coordinates 4728538 N and 649507 E.

## AUTHORITY

Permits are required pursuant to:

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

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

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

#### 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)

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 John Sargent at (978) 318-8026, (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.

**CENAE-R**  
**FILE NO. NAE-2006-2242**

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

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

**THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.**



**Karen K. Adams**  
**Chief, Permits and Enforcement Branch**  
**Regulatory Division**

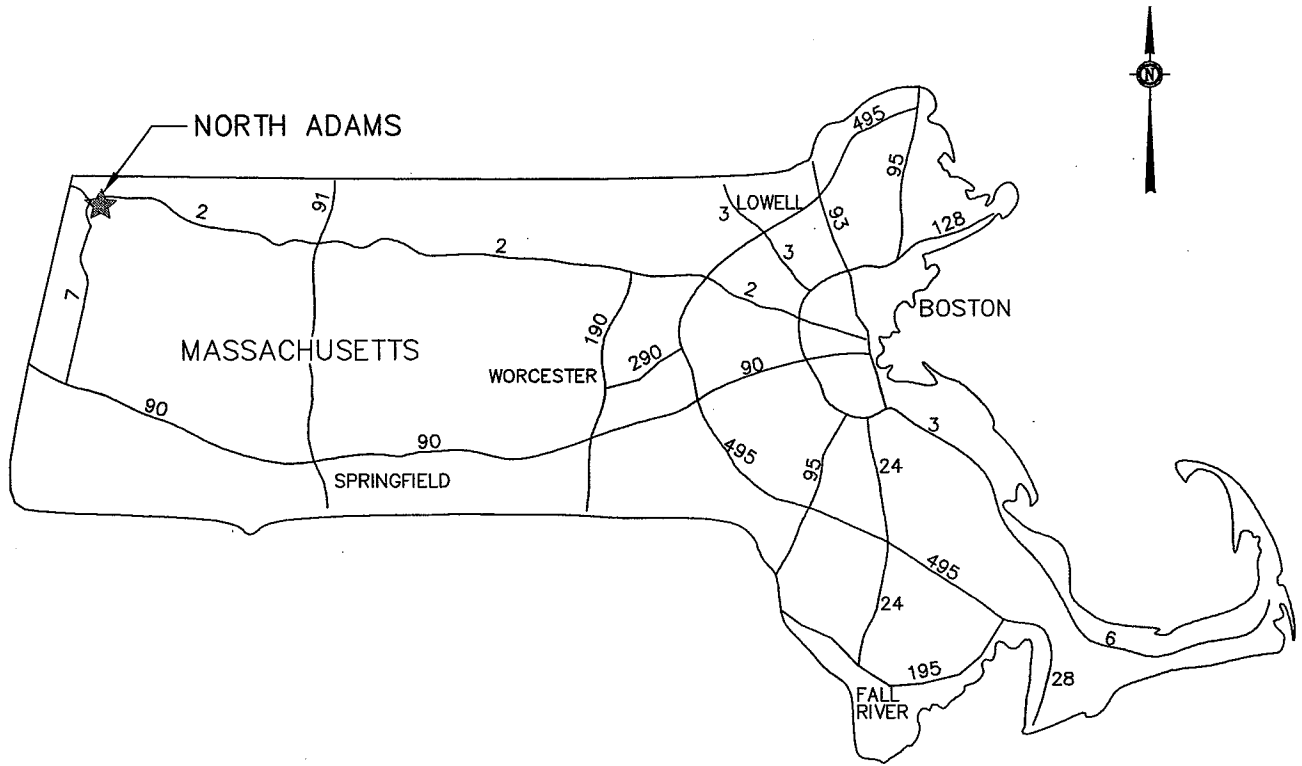
If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at [bettina.m.chaisson@usace.army.mil](mailto:bettina.m.chaisson@usace.army.mil). You may also check here ( ) and return this portion of the Public Notice to: Bettina Chaisson,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

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

**PROPOSED WORK AND PURPOSE**

The work includes the discharge of fill material to address safety concerns at the Harriman and West airport in North Adams and Williamstown, Massachusetts. The work is needed to conform with Federal Aviation Administration standards. Work in jurisdictional waters include the relocation and reconstruction of the existing 4,300 foot by 100-foot Runway (Runway 11-29) by 100 feet to the west; replacement of the existing 430 linear feet of 6-foot diameter culvert with a 7-foot by 6-foot box culvert beneath Runway 11; replacing existing 500 linear feet of twin 5-foot diameter culverts with a 7-foot by 6-foot box culvert in Paull Brook beneath the runway; and creation of a 3.3 acre replacement wetland and stream channel. Approximately 1.51 acres of wetlands would be impacted during construction.

The work is described on the enclosed plans entitled "RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS, HARRIMAN AND WEST AIRPORT, STATE ROAD (ROUTE 2), CITY OF NORTH ADAMS, MASSACHUSETTS," on 18 sheets, and dated "October 2007."



**LOCATION MAP**

SCALE: 1"=30 MILES

RECEIVED  
DEC 10 2007  
REGULATORY DIVISION

GRAPHICAL SCALE



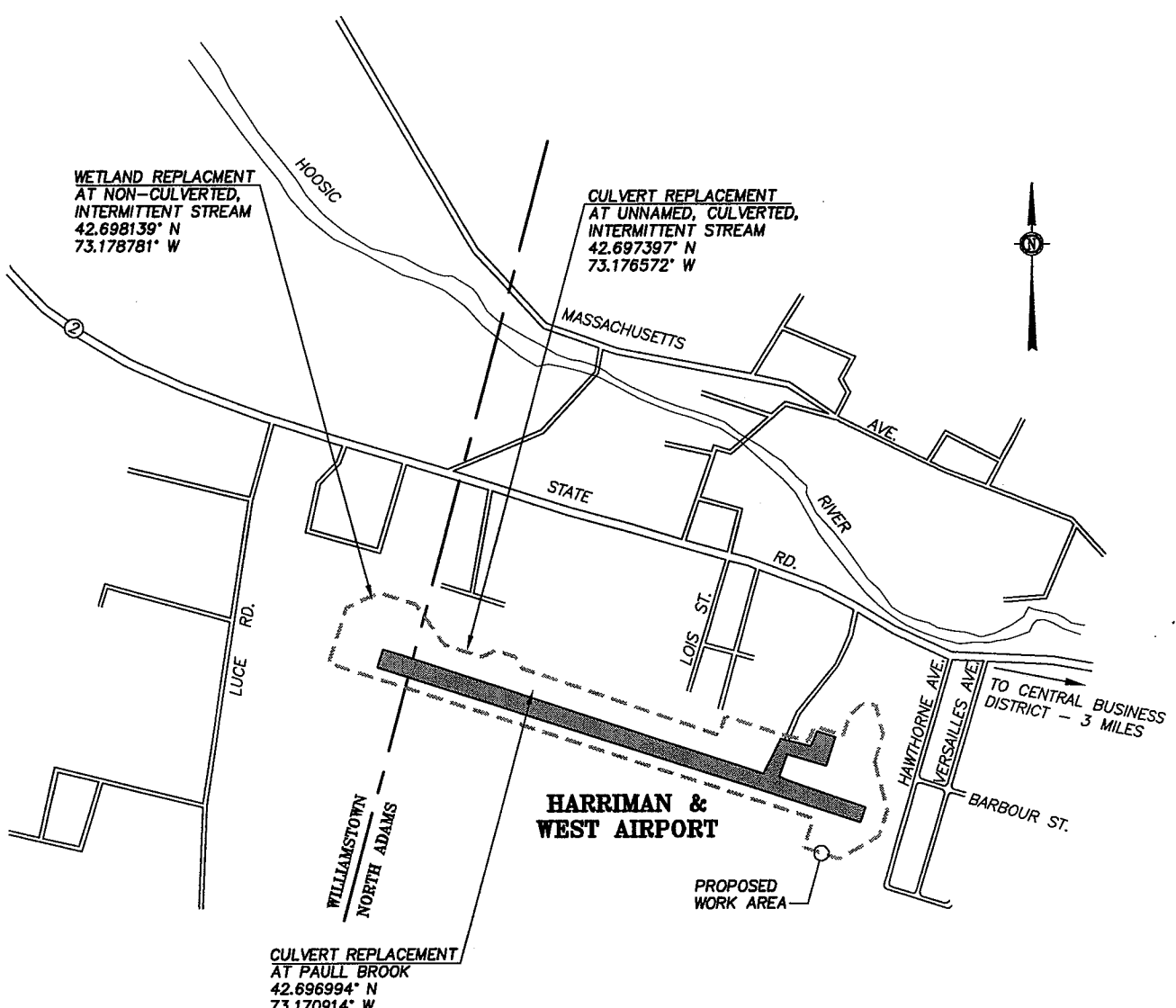
SCALE: 1" = 30 MILES

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Gale Associates, Inc  
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**DEC** BAYSTATE ENVIRONMENTAL CONSULTANTS INC.  
Civil Engineers Environmental Scientists  
255 North Main Street East Longmeadow, MA 01028

<b>AIRPORT LOCATION MAP</b>			
<small>CITY OF NORTH ADAMS STATE ROAD (ROUTE 2) CITY OF NORTH ADAMS, MASSACHUSETTS</small>		<b>PERMITTING PLAN SET</b> <small>SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II PURSUANT TO 35 USC 1224</small>	
PROJ. NO:	DRAWN	REVIEWED	CADD FILE
775750	EWS	BLS	775750-G12.DWG

DATE:	JUNE 2006
SCALE:	AS SHOWN
REVISION:	2: OCTOBER 2007
<b>FIG. 1</b>	



**HARRIMAN AND WEST AIRPORT  
CITY OF NORTH ADAMS, TOWN OF  
WILLIAMSTOWN, MASSACHUSETTS**

SCALE: N.T.S.

**PROJECT DATUM:**

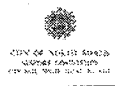
**COORDINATE SYSTEM:**  
MASS. STATE PLANE  
ENGLISH UNITS

**GEODETIC DATUM:**  
NAD27

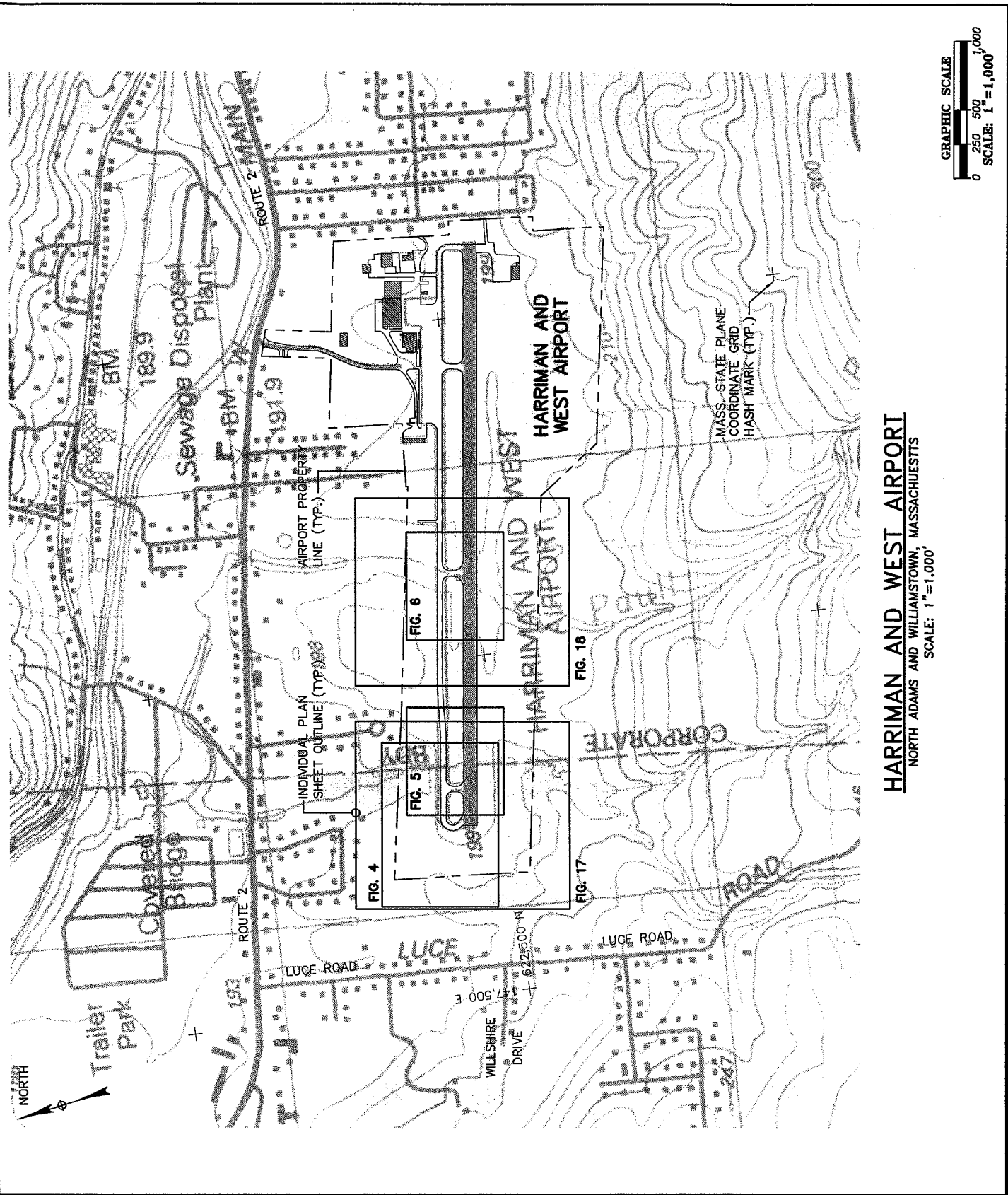
**VERTICAL DATUM:**  
NGVD 1929

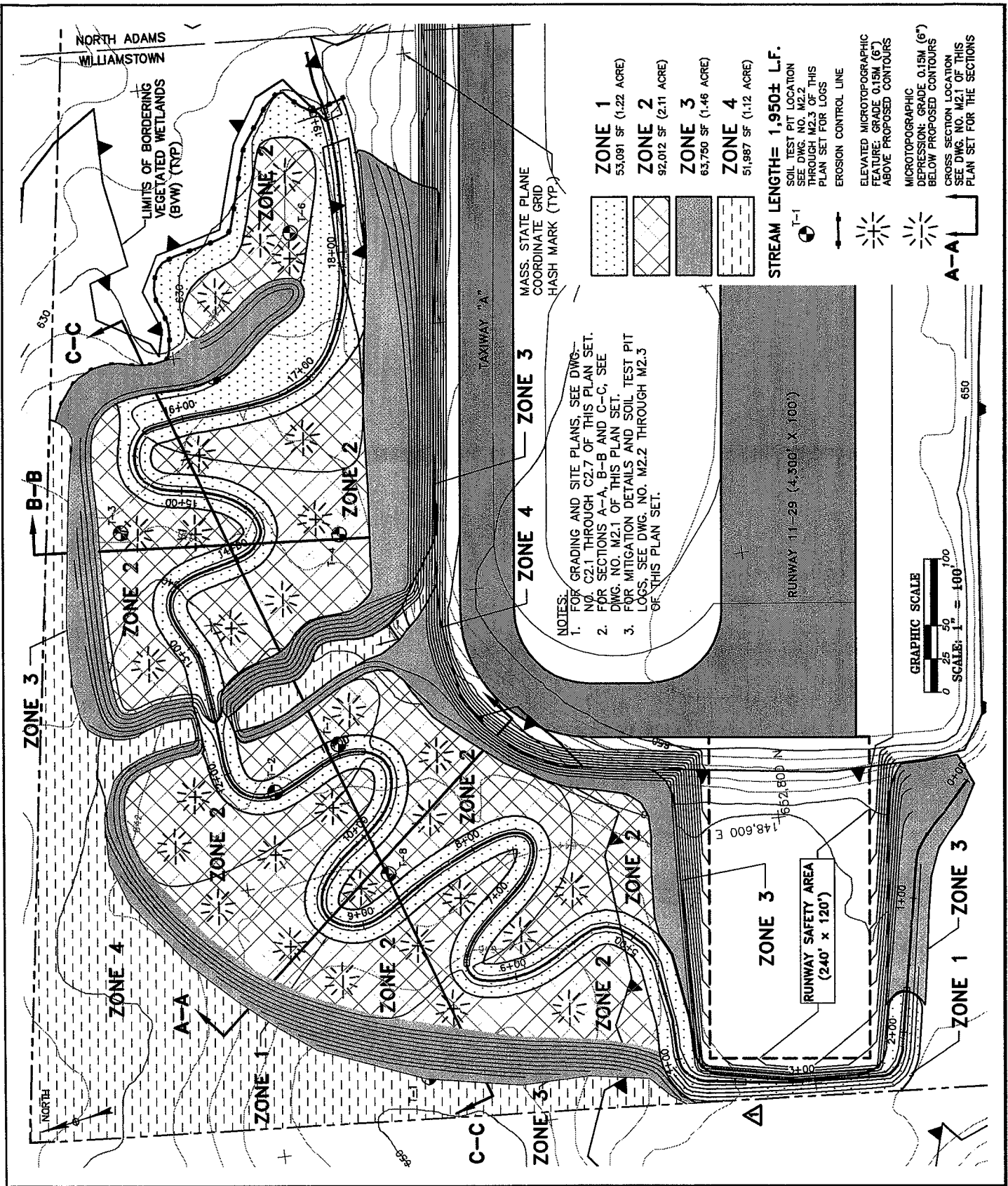
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<b>SITE VICINITY MAP</b>			
 CITY OF NORTH ADAMS COMMONWEALTH OF MASSACHUSETTS 170 MAIN STREET, NORTH ADAMS, MA 01028		<b>PERMITTING PLAN SET</b> <b>SECTION 404 PROGRAMMATIC</b> <b>GENERAL PERMIT, CATEGORY II</b> <small>PERMIT NO 25 DEC 1244</small>	
RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS AIP NO. 3-25-0036-17 HARRIMAN AND WEST AIRPORT STATE ROAD (ROUTE 2) CITY OF NORTH ADAMS, MASSACHUSETTS			
PROJ. NO:	DRAWN	REVIEWED	CADD FILE
775750	EWS	BLS	775750-G12.DWG

DATE:	JUNE 2006
SCALE:	AS SHOWN
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<b>FIG. 2</b>	





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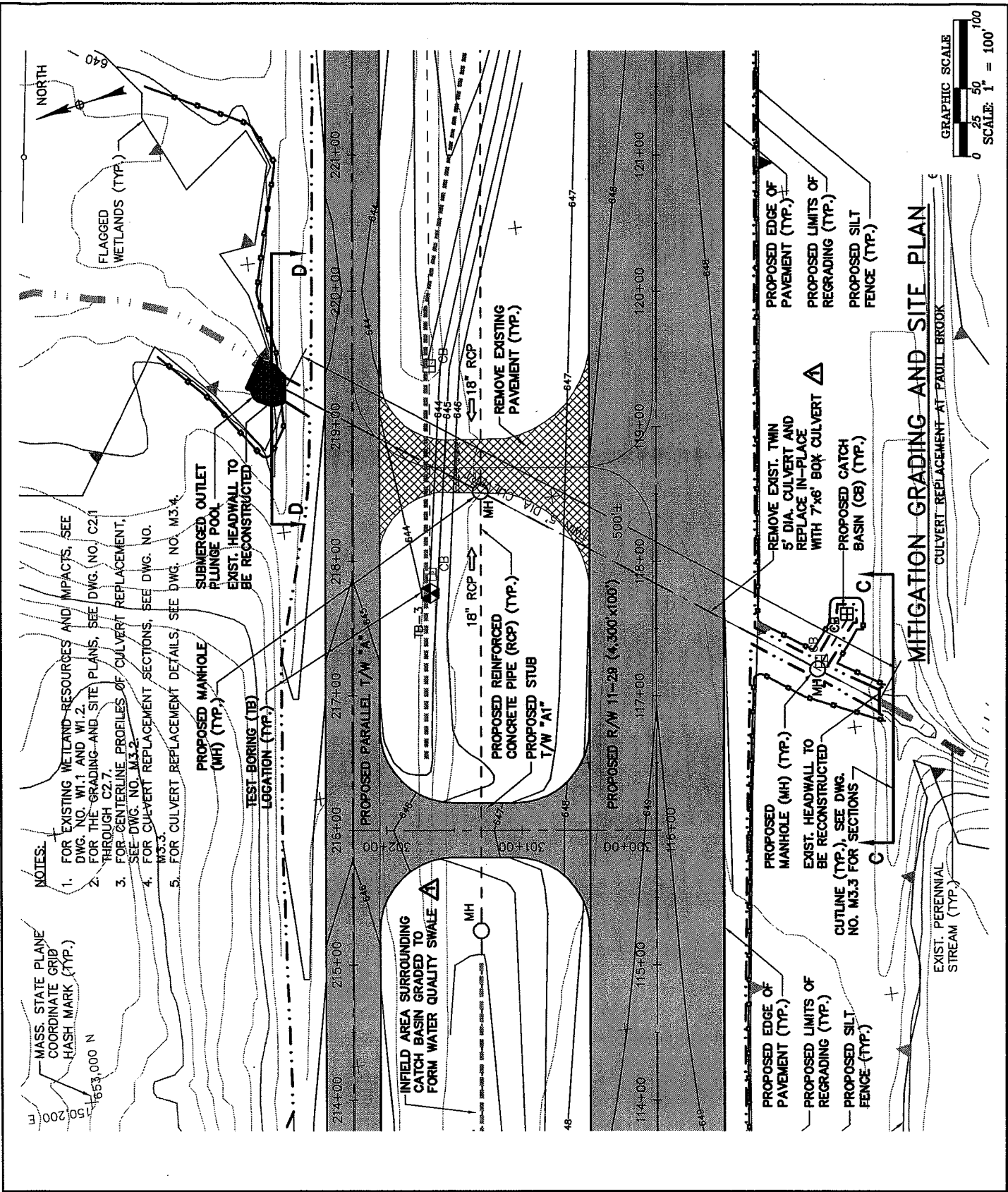
**BAYSTATE ENVIRONMENTAL CONSULTANTS INC.**  
Civil Engineers Environmental Scientists  
228 Park Side Street East Longmeadow, MA 01028

<b>MITIGATION GRADING AND SITE PLAN – WETLAND REPLACEMENT AT NON-CULVERTED, INTERMITTENT STREAM</b>			
RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS AIP NO. 3-25-0036-17 HARRIMAN AND WEST AIRPORT STATE ROAD (ROUTE 2) CITY OF NORTH ADAMS, MASSACHUSETTS		PERMITTING PLAN SET <b>SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II</b> PURSUANT TO 33 USC 1344	
PROJ. NO:	DRAWN	REVIEWED	CADD FILE
775750	BEC	BLS	775750-M11.DWG

DATE:	JUNE 2006
SCALE:	1"=100'
REVISION:	2: OCTOBER 2007
<b>FIG. 4</b>	








- NOTES:**
1. FOR EXISTING WETLAND-RESOURCES AND IMPACTS, SEE DWG. NO. W1.1 AND W1.2.
  2. FOR THE GRADING AND SITE PLANS, SEE DWG. NO. C2.1 THROUGH C2.7.
  3. FOR CENTERLINE PROFILES OF CULVERT REPLACEMENT, SEE DWG. NO. M3.2.
  4. FOR CULVERT REPLACEMENT SECTIONS, SEE DWG. NO. M3.3.
  5. FOR CULVERT REPLACEMENT DETAILS, SEE DWG. NO. M3.4.

MASS. STATE PLANE  
COORDINATE GRID  
HASH MARK (TYP.)  
1653,000 N  
150,200 E

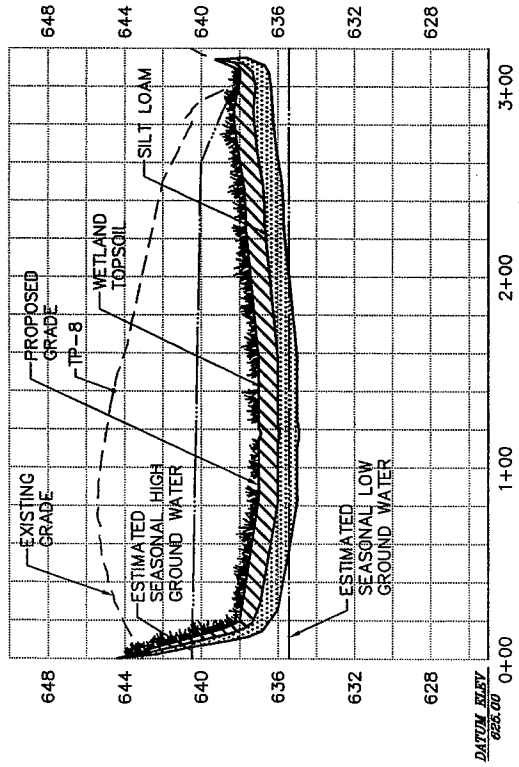
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<b>MITIGATION GRADING AND SITE PLAN – CULVERT REPLACEMENT AT PAULL BROOK</b>			
 RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS AIP NO. 3-25-0036-17 HARRIMAN AND WEST AIRPORT STATE ROAD (ROUTE 2) CITY OF NORTH ADAMS, MASSACHUSETTS		<b>PERMITTING PLAN SET</b> <b>SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II</b> <small>PURSUANT TO 35 USC 1504</small>	
PROJ. NO:	DRAWN	REVIEWED	CADD FILE
775750	EWS	BLS	775750-M12.DWG

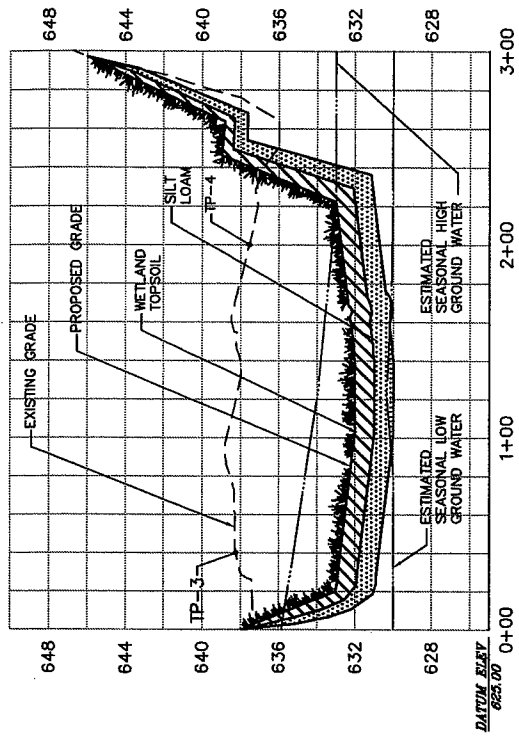
DATE:	JUNE 2006
SCALE:	AS SHOWN
REVISION:	2: OCTOBER 2007
<b>FIG. 6</b>	

L:\775750-A\DWG Supplemental Work\Drawings\7756 Plans\Plan-Set-404\1\12075404-MIT-FIG. 6-A.dwg, 12/07/2007 11:31:18 PM, cws



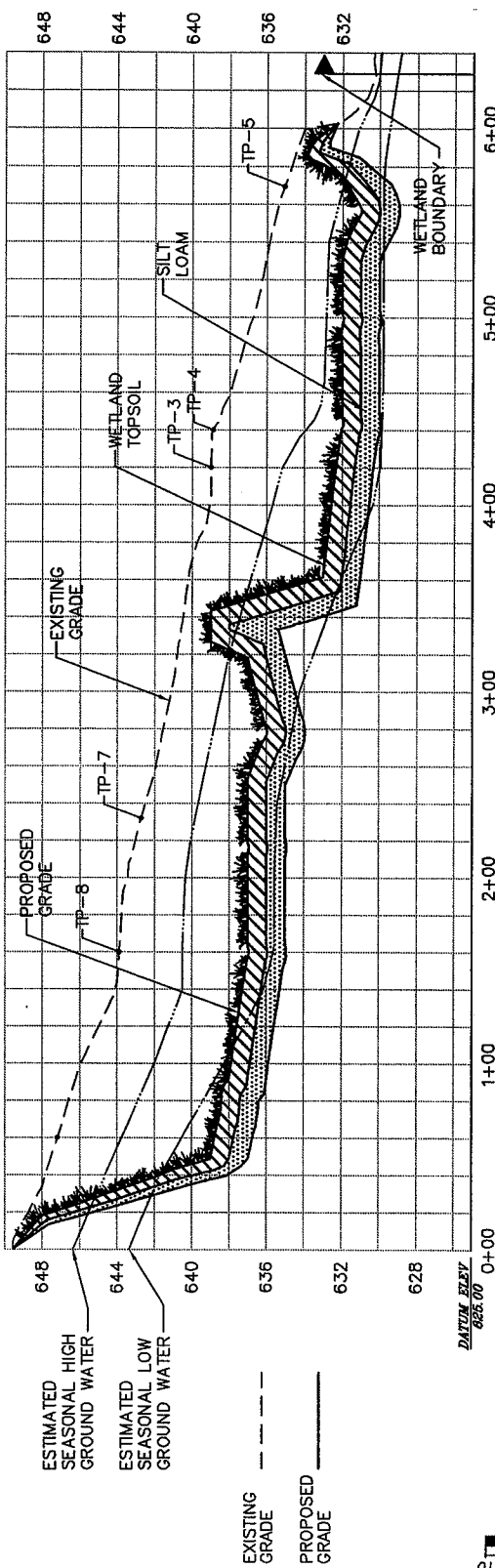
**MITIGATION AREA SECTION A-A**

SEE DWG. NO. C2.5 FOR THE LOCATION OF THIS SECTION



**MITIGATION AREA SECTION B-B**

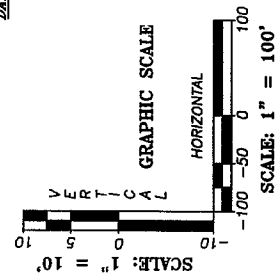
SEE DWG. NO. C2.5 FOR THE LOCATION OF THIS SECTION



**MITIGATION AREA SECTION C-C**

SEE DWG. NO. C2.5 FOR THE LOCATION OF THIS SECTION

- NOTES:
1. FOR GRADING AND SITE PLANS, SEE DWG. NO. C2.1 THROUGH C2.7 OF THIS PLAN SET.
  2. FOR THE LOCATION OF EACH SECTION SHOWN ABOVE, SEE DWG. NO M1.1 OF THIS PLAN SET.
  3. FOR MITIGATION DETAILS AND SOILS TEST PIT LOGS, SEE DWG. M2.2 THROUGH M2.3 OF THIS PLAN SET.



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**MITIGATION SECTIONS - WETLAND REPLACEMENT AT NON-CULTURVED, INTERMITTENT STREAM**



RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS  
AIP NO. 3-25-0038-17  
HARRIMAN AND WEST AIRPORT  
STATE ROAD (ROUTE 2)  
CITY OF NORTH ADAMS, MASSACHUSETTS

**PERMITTING PLAN SET**  
SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II  
PURSUANT TO 33 USC 1344

PROJ. NO: 775750	DRAWN BEC	REVIEWED BLS	CADD FILE 775750-M21.DWG
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DATE:	JUNE 2006
SCALE:	AS SHOWN
REVISION:	2: COTOBER 2007

**FIG. 7**

Depth	Horizon	Soiler	Texture	Machine	Characteristics
0-2"	A	10 YR 2/2	SL		
2-4"	Bw	2.5 YR 5/4	SL		
4-8"	Bw2	2.5 YR 6/3	SL	427	2.5 YR 6/2
8-18"	Bw	2.5 YR 7/3	SL	427	2.5 YR 7/2
18-23"	C	2.5 YR 6/4	SC	444	2.5 YR 6/1
23-40"	C2	2.5 YR 6/3	SC	444	2.5 YR 6/1 (note @ 30"
40-4"	C3	2.5 YR 6/4	SC		estimated @ 40"

Depth	Horizon	Soiler	Texture	Machine	Characteristics
0-2"	A	10 YR 2/2	vSL		
2-5"	Bw	10 YR 4/3	vSL		
5-15"	Bw	10 YR 6/3	vSL	426	5 YR 4/4
15-23"	C	10 YR 6/2.5	vSL	426	7.5 YR 6/4
23-43"	C2	10 YR 6/2.5	vSL		note @ 30"
43-108"	C3	2.5 YR 6/3	vSL	111	2.5 YR 6/2 (estimated @ 50"

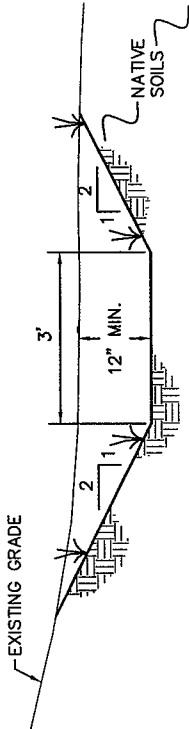
Depth	Horizon	Soiler	Texture	Machine	Characteristics
0-3"	A	2.5 YR 3/3	SL		
3-4"	Bw	2.5 YR 4/2	SL		
4-15"	Bw	2.5 YR 6/3	SL		
15-20"	C	2.5 YR 4/4	sL	445	4p 7.5 YR 6/4
20-32"	C2	2.5 YR 4/4	sL		
32-104"	C3	2.5 YR 9/1	SC		note @ 80" estimated @ 104"

Depth	Horizon	Soiler	Texture	Machine	Characteristics
0-4"	A	2.5 YR 3/3	SL		
4-11"	Bw	2.5 YR 4/2	SL		
11-15"	C	2.5 YR 6/3	sL		
15-23"	C2	2.5 YR 4/4	s		
23-28"	C3	2.5 YR 6/2	sL		
28-37"	C4	2.5 YR 4/4	sL		note @ 40"
37-67"	C5	5 YR 6/2	vSL		
67-91"	C6	5 YR 9/1	SC	2.5 YR 4/4 (4p)	estimated @ 104"

### SOIL TEST PIT LOGS

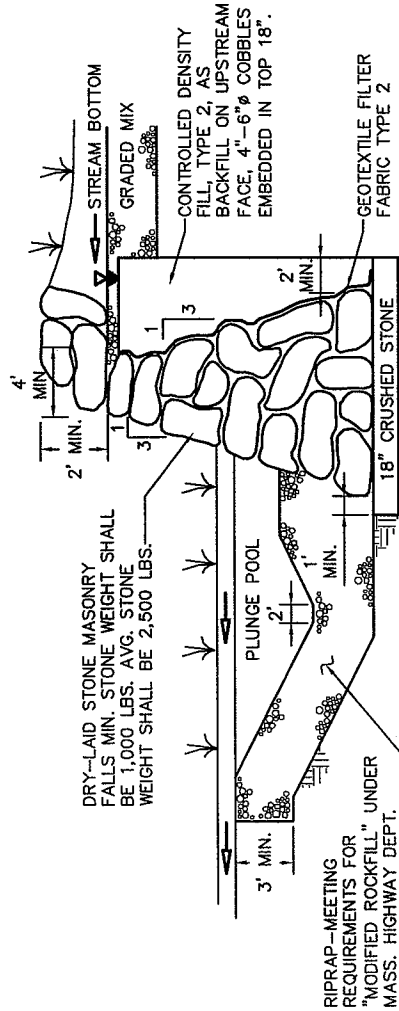
TP-1 THROUGH TP-4  
N.T.S.

NOTE:  
FOR THE LOCATIONS  
OF TEST PITS (TP),  
SEE DWG. NO. M1.1  
OF THIS PLAN SET.



### TYPICAL SECTION STREAM CHANNEL

STA 0+00 TO 3+00  
N.T.S.



### TYPICAL SECTION THROUGH WATER CASCADE FEATURE AND PLUNGE POOL

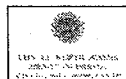
N.T.S.



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290 North Main Street East Longmeadow, MA 01103

### MITIGATION DETAILS (SHEET 1 OF 2)



RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS  
AIP NO. 3-25-0036-17  
HARRIMAN AND WEST AIRPORT  
STATE ROAD (ROUTE 2)  
CITY OF NORTH ADAMS, MASSACHUSETTS

PERMITTING PLAN SET  
SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II  
PURSUANT TO 33 USC 1344

PROJ. NO:	DRAWN	REVIEWED	CADD FILE
775750	BEC	BLS	775750-M22.DWG

DATE:	JUNE 2006
SCALE:	NOT TO SCALE
REVISION:	2: OCTOBER 2007

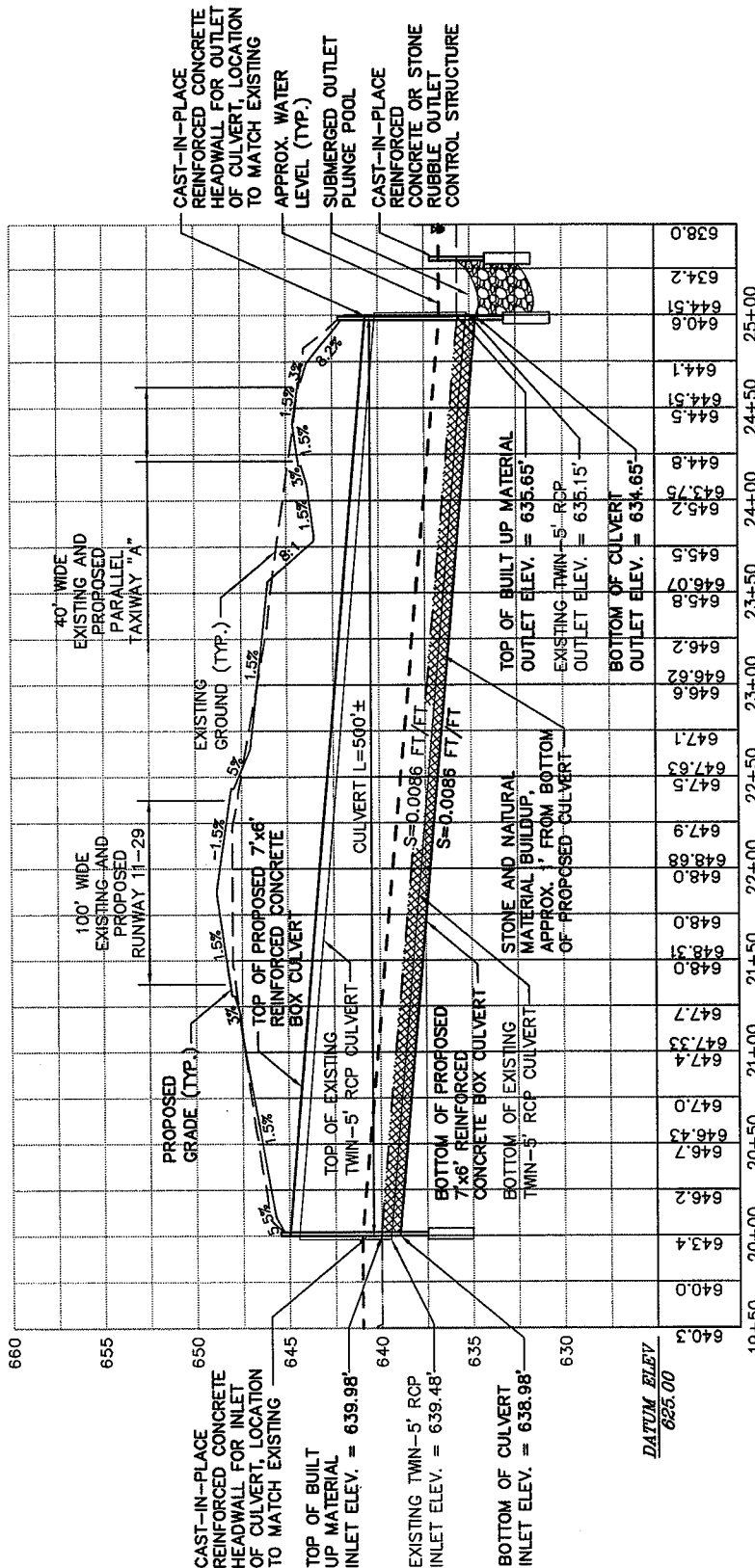
# FIG. 8



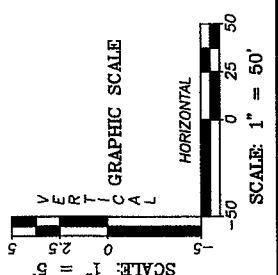


**NOTES:**

1. FOR LOCATION OF PROFILE, SEE DWG. NO. M1.3.
2. FOR SECTIONS AT THE INLET AND OUTLET OF THE CULVERT, SEE DWG. NO. M3.3.
3. FOR CULVERT DETAILS, SEE DWG. NO. M3.4.



**CENTERLINE PROFILE: PAULL BROOK**  
 TWIN-5' REINFORCED CONCRETE PIPE (EXISTING)  
 7'x6' REINFORCED CONCRETE BOX CULVERT (PROPOSED)



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**STREAM PROFILE - PAULL BROOK**

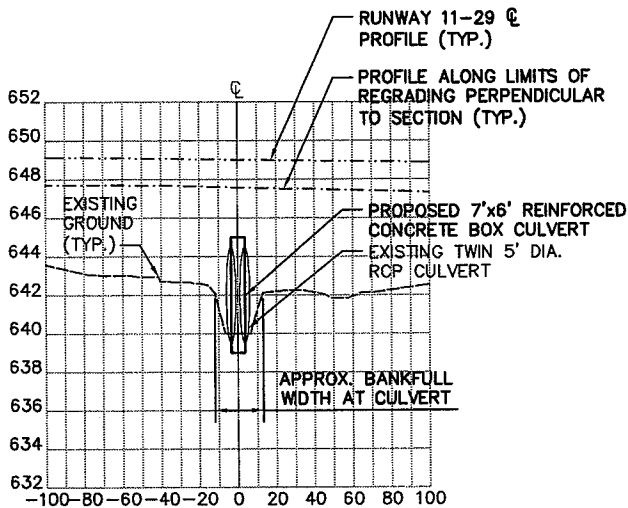
RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS  
 AIP NO. 3-25-0038-17  
 HARRIMAN AND WEST AIRPORT  
 STATE ROAD (ROUTE 2)  
 CITY OF NORTH ADAMS, MASSACHUSETTS

PERMITTING PLAN SET  
 SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II  
 PURSUANT TO 33 USC 1344

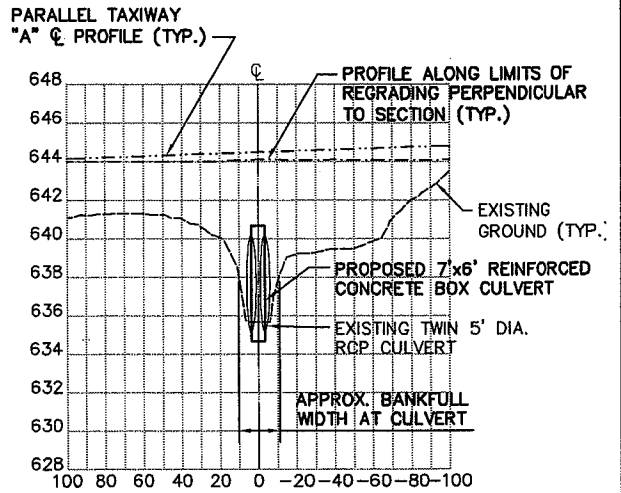
PROJ. NO:	DRAWN	REVIEWED	CADD FILE
775750	EWS	BLS	775750-M31.DWG

DATE:	JUNE 2006
SCALE:	AS SHOWN
REVISION:	2: OCTOBER 2007

**FIG. 11**



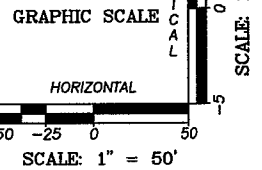
SECTION C-C: UPSTREAM END



SECTION D-D: DOWNSTREAM END

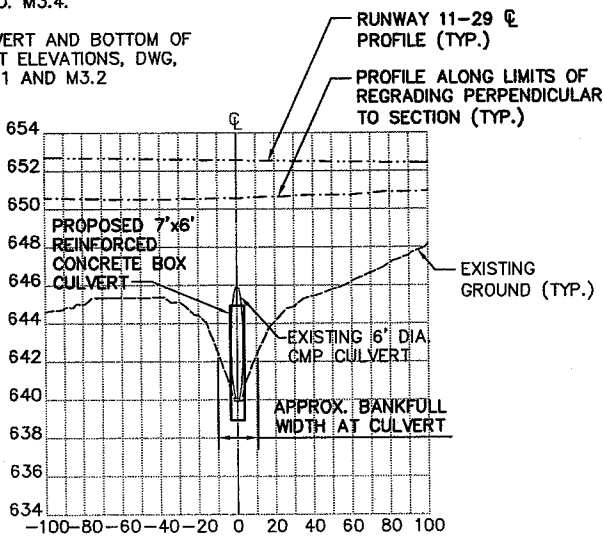
**CULVERT CROSS SECTIONS: PAULL BROOK**

TWIN-5' REINFORCED CONCRETE PIPE (EXISTING)  
7'X6' REINFORCED CONCRETE BOX CULVERT (PROPOSED)

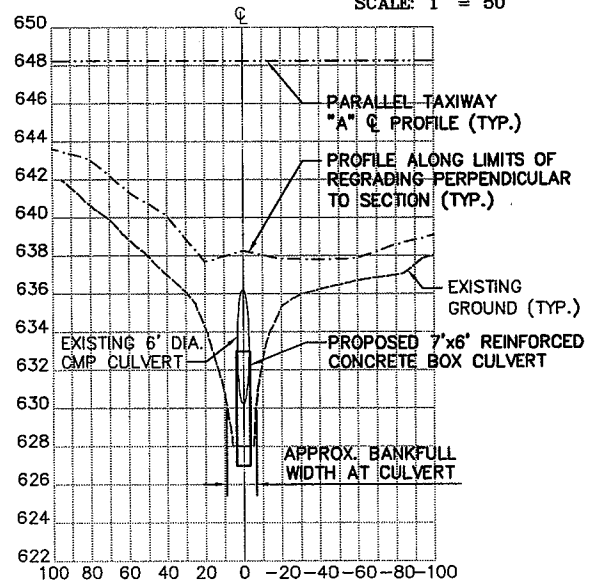


**NOTES:**

1. FOR LOCATION OF SECTIONS, SEE DWG. NO. M1.2 AND M1.3.
2. FOR PROFILES OF CULVERTS, SEE DWG. NO. M3.1 AND M3.2.
3. FOR CULVERT DETAILS, SEE DWG. NO. M3.4.
4. FOR INVERT AND BOTTOM OF CULVERT ELEVATIONS, DWG. NO. M3.1 AND M3.2



SECTION A-A: UPSTREAM END



SECTION B-B: DOWNSTREAM END

**CULVERT CROSS SECTIONS: UNNAMED BROOK**

6' CORRUGATED METAL PIPE (EXISTING)  
7'X6' REINFORCED CONCRETE BOX CULVERT (PROPOSED)



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Civil Engineers Environmental Scientists  
288 North Main Street East Longmeadow, MA 01022

**MITIGATION SECTIONS - UNNAMED, CULVERTED, INTERMITTENT STREAM AND PAULL BROOK**

RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS  
AIP NO. 3-25-0038-17  
HARRIMAN AND WEST AIRPORT  
STATE ROAD (ROUTE 2)  
CITY OF NORTH ADAMS, MASSACHUSETTS

PERMITTING PLAN SET



PROJ. NO: 775750	DRAWN EWS	REVIEWED BLS	CADD FILE 775750-M31.DWG
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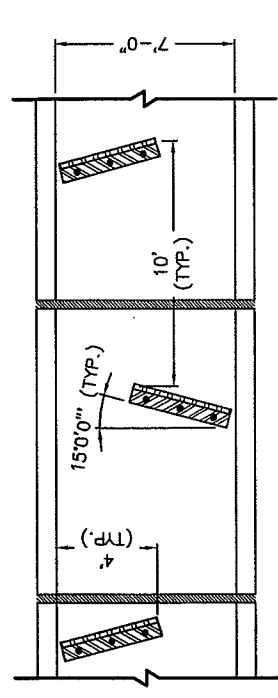
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**FIG. 12**

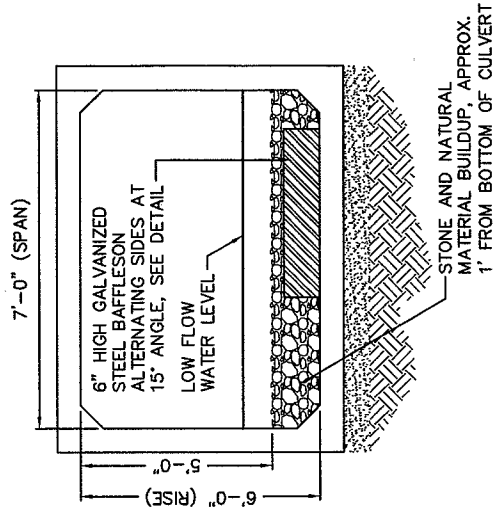


**NOTES:**

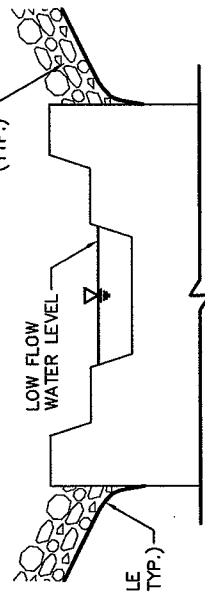
1. ALL CULVERTS SHALL BE PREFABRICATED REINFORCED CONCRETE AND HAVE A COMPRESSIVE STRENGTH OF 5,000 PSI.
2. ALL REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF THE MANUFACTURER.
3. ALL CULVERT PIECES SHALL BE JOINED WITH A RUBBER GASKET.
4. ALL JOINTS, CRACKS, AND HOLES SHALL BE MORTARED WITH NON-SHRINK MORTAR.
5. CULVERTS AND PLUNGE POOLS SHALL BE CONSTRUCTED AND/OR INSTALLED USING "IN-THE-DRY" METHODS. SEE SPECIFICATION SECTION D-701 AND M-004.
6. SIZE, LOCATION, AND SPACING OF STEEL BAFFLES SHALL BE AS SHOWN.
7. STEEL GRATES SHALL BE INSTALLED AT THE INLET OF BOTH CULVERTS TO PREVENT THE PASSAGE OF BEAVERS. THE GRATES SHALL BE DESIGNED TO ENCOURAGE THE PASSAGE OF FISH AND OTHER STREAM WILDLIFE. SEE SPECIFICATION SECTION M-004.



**BAFFLE PLACEMENT DETAIL**

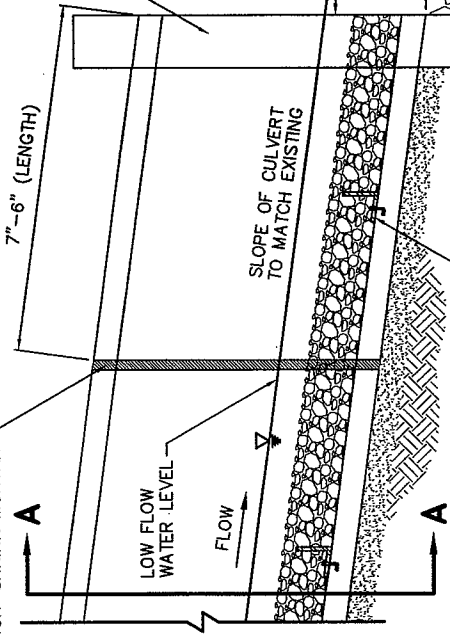


**SECTION A-A**



**SECTION B-B  
CONTROL STRUCTURE**

CAST-IN-PLACE CONCRETE HEADWALL  
CONCRETE OR STONE CONTROL STRUCTURE, TO BE SIZED AND CONFIGURED DURING DESIGN TO ACCOMMODATE LOW FLOW CONDITIONS. SEE "CONTROL STRUCTURE" DETAIL ABOVE



**ELEVATION VIEW**

**REINFORCED CONCRETE BOX CULVERT**

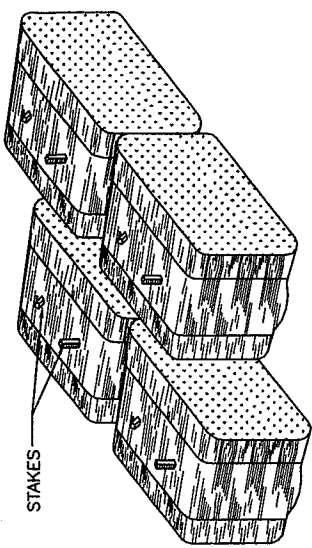
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MITIGATION DETAILS - UNNAMED, CULVERTED, INTERMITTENT STREAM AND PAULL BROOK			
RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS AIP NO. 3-25-0036-17 HARRIMAN AND WEST AIRPORT STATE ROAD (ROUTE 2) CITY OF NORTH ADAMS, MASSACHUSETTS		PERMITTING PLAN SET SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II PERMIT NO. 22 LRD 1244	
PROJ. NO:	DRAWN	REVIEWED	CADD FILE
775750	EWS	BLS	775750-M34.DWG

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<b>FIG. 13</b>	



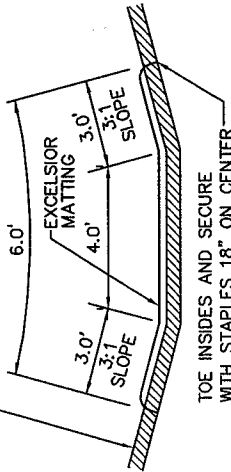
**HAY BALE NOTES:**

1. BALES SHALL BE PLACED IN TWO ROWS, STAGGERED WITH 6" OVERLAP AT THE END.
2. FOR MORE NOTES PERTAINING TO THIS DETAIL, SEE NOTES FOR "TYPICAL SINGLE ROW HAYBALE CHECK DAM DETAIL" TO THE LEFT.

**TYPICAL DOUBLE ROW HAYBALE CHECK DAM DETAIL**

N.T.S.

4" SANDY LOAM WITH AN ORGANIC MATTER OF 10-20% AND NO MORE THAN 20% CLAY

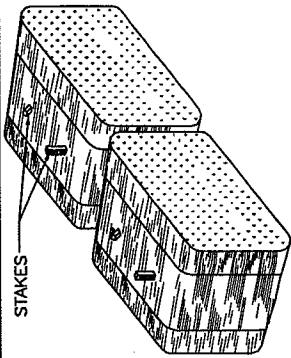


**EXCELSIOR MATTING NOTES:**

1. PRIOR TO PLACING EXCELSIOR MATTING, PREPARE THE SOIL BY RAKING AREA FREE OF CLODS AND LARGE STONES.
2. SEED, MULCH AND FERTILIZER SHALL BE DISTRIBUTED AS SPECIFIED OVER THE PREPARED SOIL PRIOR TO PLACING THE EXCELSIOR MATTING.
3. ALL SEAMS SHALL BE OVERLAPPED A MINIMUM OF 6" AND SECURED WITH STAPLES 18" ON CENTER.
4. TO SECURE MAT TO GROUND, STAPLE RANDOMLY AT 24" INTERVALS THROUGHOUT.
5. LONGITUDINAL SLOPES SHALL BE AS CLOSE TO 0% AS POSSIBLE AND NOT EXCEED 4%.
6. SWALE CHANNEL SHALL BE SIZED TO CONVEY THE 10 YEAR STORM

**GRASS SWALE AND EXCELSIOR MATTING SECTION DETAIL**

N.T.S.

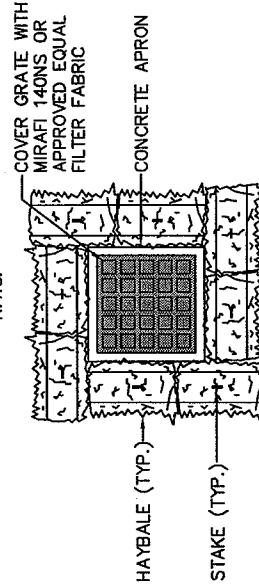


**HAY BALE NOTES:**

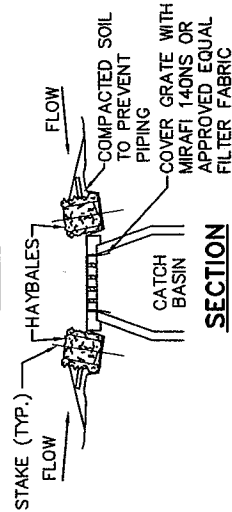
1. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH DRAINAGE SEDIMENT.
5. BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.

**TYPICAL SINGLE ROW HAYBALE CHECK DAM DETAIL**

N.T.S.



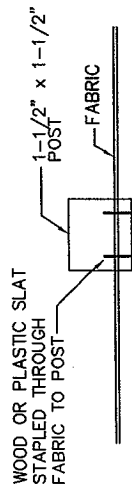
**PLAN**



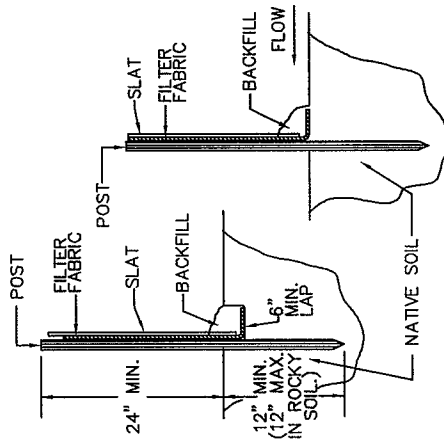
**SECTION**

**HAY BALE CHECK DAM AT CATCH BASIN**

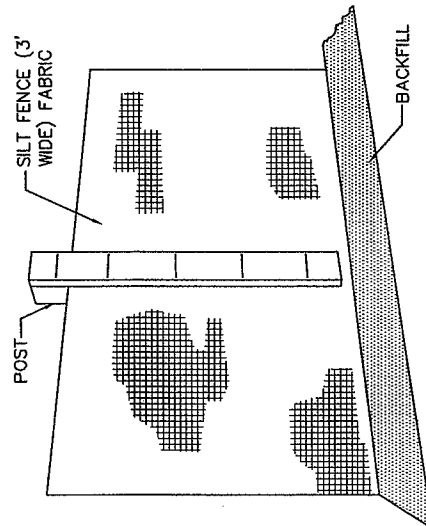
N.T.S.



**DETAIL OF POST ATTACHMENT (PRE-ASSEMBLED PRIOR TO INSTALLATION)**



**TOE-IN METHODS**



**PERSPECTIVE OF FENCE**

**TYPICAL SILT FENCE DETAIL**

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**EROSION CONTROL DETAILS (SHEET 1 OF 2)**

RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS  
AIP NO. 3-25-0036-17  
HARRIMAN AND WEST AIRPORT  
STATE ROAD (ROUTE 2)  
CITY OF NORTH ADAMS, MASSACHUSETTS

PERMITTING PLAN SET  
SECTION 404 PROGRAMMATIC GENERAL PERMIT, CATEGORY II  
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**FIG. 14**



**PHASE I:**

**CONSTRUCT RUNWAY 11 END SAFETY AREA, WHICH INCLUDES THE FOLLOWING TASKS:**

- INSTALL SILT FENCE AND EROSION AND SEDIMENTATION CONTROL MEASURES (BMP'S). PROTECT NON-CULVERTED, INTERMITTENT STREAM FROM DISTURBANCE
- INSPECT AND MAINTAIN ALL BMP'S THROUGHOUT THE DURATION OF THE PROJECT
- ALL BMP'S WILL BE LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE VEGETATION ESTABLISHED
- CONSTRUCT NON-CULVERTED INTERMITTENT STREAM WETLAND MITIGATION AREA
- STRIP AND STOCKPILE TOPSOIL FROM UPLAND AREAS
- EXCAVATE EXISTING MATERIAL AND CONSTRUCT EMBANKMENT TO FORM NEW STREAM BED AND WATERFALL
- RESPREAD TOPSOIL TO FINISH GRADE, INCLUDING IN RELOCATED STREAM CHANNEL
- PLANT PROPOSED SPECIES
- REDIRECT EXISTING NON-CULVERTED INTERMITTENT STREAM TO NEWLY CONSTRUCTED WETLAND MITIGATION AREA
- HAUL FILL MATERIAL TO SITE AND STOCKPILE IN DESIGNATED AREA
- CONSTRUCT EMBANKMENT FOR SAFETY AREA
- PLACE, GRADE AND COMPACT FILL MATERIAL REQUIRED TO CONSTRUCT SAFETY AREA
- RESPREAD AND GRADE TOPSOIL TO FINISH GRADE
- SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS
- REMOVE BMP'S UNDER THE DIRECTION OF THE ENGINEER ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED

**PHASE II:**

**RECONSTRUCT AND SPLIT A PORTION OF RUNWAY 11-20 ON THE RUNWAY 11 END AND RECONSTRUCT TAXIWAY TO RUNWAY 11 END, WHICH INCLUDES THE FOLLOWING TASKS:**

- INSTALL SILT FENCE AND EROSION AND SEDIMENTATION CONTROL MEASURES (BMP'S) PROTECT CULVERTED, INTERMITTENT STREAM AND PAULL BROOK FROM DISTURBANCE
- INSPECT AND MAINTAIN ALL BMP'S THROUGHOUT THE DURATION OF THE PROJECT
- ALL BMP'S WILL BE LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE VEGETATION ESTABLISHED
- REMOVE EXISTING PAVEMENT
- STRIP EXISTING TOPSOIL IN PROPOSED AREAS AND STOCKPILE IN DESIGNATED AREA
- INSTALL NEW BOX CULVERTS IN UNNAMED, CULVERTED, INTERMITTENT STREAM AND PAULL BROOK
- REMOVE WING WALLS ON ONE SIDE OF EXISTING CULVERTS
- REMOVE ONE OF THE TWIN CULVERTS IN PAULL BROOK
- INSTALL NEW BOX CULVERTS DIRECTLY ADJACENT TO EXISTING CULVERTS INCLUDING WING WALLS AND INLET AND OUTLET PROTECTION
- REMOVE REMAINING WING WALLS AND CULVERTS
- RESTORE SURROUNDING AREA
- HAUL BASE AND GRAVEL MATERIALS TO SITE AND STOCKPILE IN DESIGNATED AREA
- EXCAVATE EXISTING MATERIALS TO SUBGRADE FOR PAVED AND TURF AREAS
- STOCKPILE IN DESIGNATED AREA
- ANY SURPLUS OR UNSUITABLE MATERIALS WILL BE LEGALLY DISPOSED OF OFF AIRPORT PROPERTY
- INSTALL UNDERDRAINS AND DRAINAGE IMPROVEMENTS INCLUDING THE TWO (2) CULVERTS THAT RUN UNDERNEATH THE AIRPORT USING IN-THE-DRY METHODOLOGY, SEE SPECIFICATION SECTION P-156
- INSTALL HAYBALE CHECK DAMS AND/OR FILTER FABRIC ON NEW DRAINAGE IMPROVEMENTS TO PROTECT FROM SEDIMENT AND EROSION
- PLACE GRADE AND COMPACT BASE AND GRAVEL MATERIALS IN PROPOSED PAVED AND TURF AREAS
- INSTALL ELECTRICAL COMPONENTS
- CABLES, DUCT BANKS, RUNWAY AND TAXIWAY LIGHTS, AND GUIDANCE SIGNS
- RESPREAD TOPSOIL TO FINISH GRADE
- SEED, FERTILIZE, AND MULCH DISTURBED AREAS
- REMOVE BMP'S UNDER THE DIRECTION OF THE ENGINEER ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED

**PHASE III:**

**RECONSTRUCT AND SPLIT A PORTION OF RUNWAY 11-20 ON THE RUNWAY 20 END AND RECONSTRUCT TAXIWAY TO RUNWAY 20 END, WHICH INCLUDES THE FOLLOWING TASKS:**

- INSTALL SILT FENCE AND EROSION AND SEDIMENTATION CONTROL MEASURES (BMP'S)
- INSPECT AND MAINTAIN ALL BMP'S THROUGHOUT THE DURATION OF THE PROJECT
- ALL BMP'S WILL BE LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE VEGETATION ESTABLISHED
- REMOVE EXISTING PAVEMENT
- STRIP EXISTING TOPSOIL IN PROPOSED AREAS AND STOCKPILE IN DESIGNATED AREA
- HAUL BASE AND GRAVEL MATERIALS TO SITE AND STOCKPILE IN DESIGNATED AREA
- EXCAVATE EXISTING MATERIALS TO SUBGRADE FOR PAVED AND TURF AREAS
- STOCKPILE IN DESIGNATED AREA
- ANY SURPLUS OR UNSUITABLE MATERIALS WILL BE LEGALLY DISPOSED OF OFF AIRPORT PROPERTY
- INSTALL UNDERDRAINS AND DRAINAGE IMPROVEMENTS
- INSTALL HAYBALE CHECK DAMS AND/OR FILTER FABRIC ON NEW DRAINAGE IMPROVEMENTS TO PROTECT FROM SEDIMENT AND EROSION
- PLACE, GRADE, AND COMPACT BASE AND GRAVEL MATERIALS IN PROPOSED PAVED AND TURF AREAS
- INSTALL ELECTRICAL COMPONENTS
- CABLES, DUCT BANKS, RUNWAY AND TAXIWAY LIGHTS, AND GUIDANCE SIGNS
- RESPREAD TOPSOIL TO FINISH GRADE
- PLACE PAVEMENT ON RUNWAY AND TAXIWAY
- SEED, FERTILIZE, AND MULCH DISTURBED AREAS
- REMOVE BMP'S UNDER THE DIRECTION OF THE ENGINEER ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED

**PHASE IV:**

**RECONSTRUCT REMAINING PORTION OF TAXIWAY THAT WAS NOT RECONSTRUCTED IN PHASE II AND III, WHICH INCLUDES THE FOLLOWING TASKS:**

- INSTALL SILT FENCE AND EROSION AND SEDIMENTATION CONTROL MEASURES (BMP'S)
- INSPECT AND MAINTAIN ALL BMP'S THROUGHOUT THE DURATION OF THE PROJECT
- ALL BMP'S WILL BE LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE VEGETATION ESTABLISHED
- REMOVE EXISTING PAVEMENT
- STRIP EXISTING TOPSOIL IN PROPOSED AREAS AND STOCKPILE IN DESIGNATED AREA
- HAUL BASE AND GRAVEL MATERIALS TO SITE AND STOCKPILE IN DESIGNATED AREA
- EXCAVATE EXISTING MATERIALS TO SUBGRADE FOR PAVED AND TURF AREAS
- STOCKPILE IN DESIGNATED AREA
- ANY SURPLUS OR UNSUITABLE MATERIALS WILL BE LEGALLY DISPOSED OF OFF AIRPORT PROPERTY
- INSTALL UNDERDRAINS AND DRAINAGE IMPROVEMENTS
- INSTALL HAYBALE CHECK DAMS AND/OR FILTER FABRIC ON NEW DRAINAGE IMPROVEMENTS TO PROTECT FROM SEDIMENT AND EROSION
- PLACE, GRADE, AND COMPACT BASE AND GRAVEL MATERIALS IN PROPOSED PAVED AND TURF AREAS
- INSTALL ELECTRICAL COMPONENTS
- CABLES, DUCT BANKS, TAXIWAY LIGHTS, AND GUIDANCE SIGNS
- RESPREAD TOPSOIL TO FINISH GRADE
- PLACE PAVEMENT ON TAXIWAY
- SEED, FERTILIZE, AND MULCH DISTURBED AREAS
- REMOVE BMP'S UNDER THE DIRECTION OF THE ENGINEER ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED

**PHASE V:**

**RECONSTRUCT APRONS AND TAXIWAY AND CONSTRUCT SNOW REMOVAL EQUIPMENT (SRE) BUILDING, WHICH INCLUDES THE FOLLOWING TASKS:**

- INSTALL EROSION CONTROL MEASURES (BMP'S)
- INSPECT AND MAINTAIN ALL BMP'S THROUGHOUT THE DURATION OF THE PROJECT
- ALL BMP'S WILL BE LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN PAVED AND TURF HAS BEEN ESTABLISHED
- REMOVE EXISTING PAVEMENT
- STRIP EXISTING TOPSOIL IN PROPOSED AREAS AND STOCKPILE IN DESIGNATED AREA
- HAUL BASE AND GRAVEL MATERIALS TO SITE AND STOCKPILE IN DESIGNATED AREA
- EXCAVATE EXISTING MATERIALS TO SUBGRADE FOR PAVED AND TURF AREAS
- STOCKPILE IN DESIGNATED AREA
- ANY SURPLUS OR UNSUITABLE MATERIALS WILL BE LEGALLY DISPOSED OF OFF AIRPORT PROPERTY
- INSTALL UNDERDRAINS AND DRAINAGE IMPROVEMENTS
- INSTALL HAYBALE CHECK DAMS AND/OR FILTER FABRIC ON NEW DRAINAGE IMPROVEMENTS TO PROTECT FROM SEDIMENT AND EROSION
- CONSTRUCT SRE BUILDING
- PLACE, GRADE AND COMPACT BASE AND GRAVEL MATERIALS IN PROPOSED PAVED AND TURF AREAS
- INSTALL ELECTRICAL COMPONENTS
- CABLES AND DUCT BANKS
- RESPREAD TOPSOIL TO FINISH GRADE
- PLACE PAVEMENT ON APRONS AND TAXIWAY
- SEED, FERTILIZE, AND MULCH DISTURBED AREAS
- REMOVE BMP'S UNDER THE DIRECTION OF THE ENGINEER ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED

**PHASING NOTES:**

- SEE DRAWING NO. S1.1 AND S1.2 FOR THE PHASING PLAN AND THE PHASES MENTIONED ON THIS SHEET.
- SEE SPECIFICATION SECTION M-204 AND P-156 FOR ADDITIONAL INFORMATION PERTAINING TO SEDIMENT AND EROSION CONTROL MEASURES (BMP'S)
- SEE DRAWING NO. C2.1 THROUGH C2.7 FOR THE GRADING AND SITE PLANS FOR THE PHASES LISTED ON DWG. NO. S1.1 AND S1.2 AND THIS SHEET.
- SEE DRAWING NO. C7.1 AND C7.2 FOR THE TYPICAL SECTIONS FOR THE RUNWAY, TAXIWAY AND RUNWAY SAFETY AREAS.
- SEE DRAWING NO. C8.1 THROUGH C8.3 FOR THE DRAINAGE DETAILS AND M1.1 THROUGH M3.4 FOR THE MITIGATION DETAILS.
- SEE SPECIFICATION SECTION P-156 FOR ADDITIONAL INFORMATION PERTAINING TO SEDIMENTATION AND EROSION CONTROL.



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**CONSTRUCTION PHASING NOTES**

RUNWAY AND TAXIWAY RECONSTRUCTION WITH SAFETY AREA AND OTHER AIRPORT IMPROVEMENTS  
AIP NO. 3-25-0036-17  
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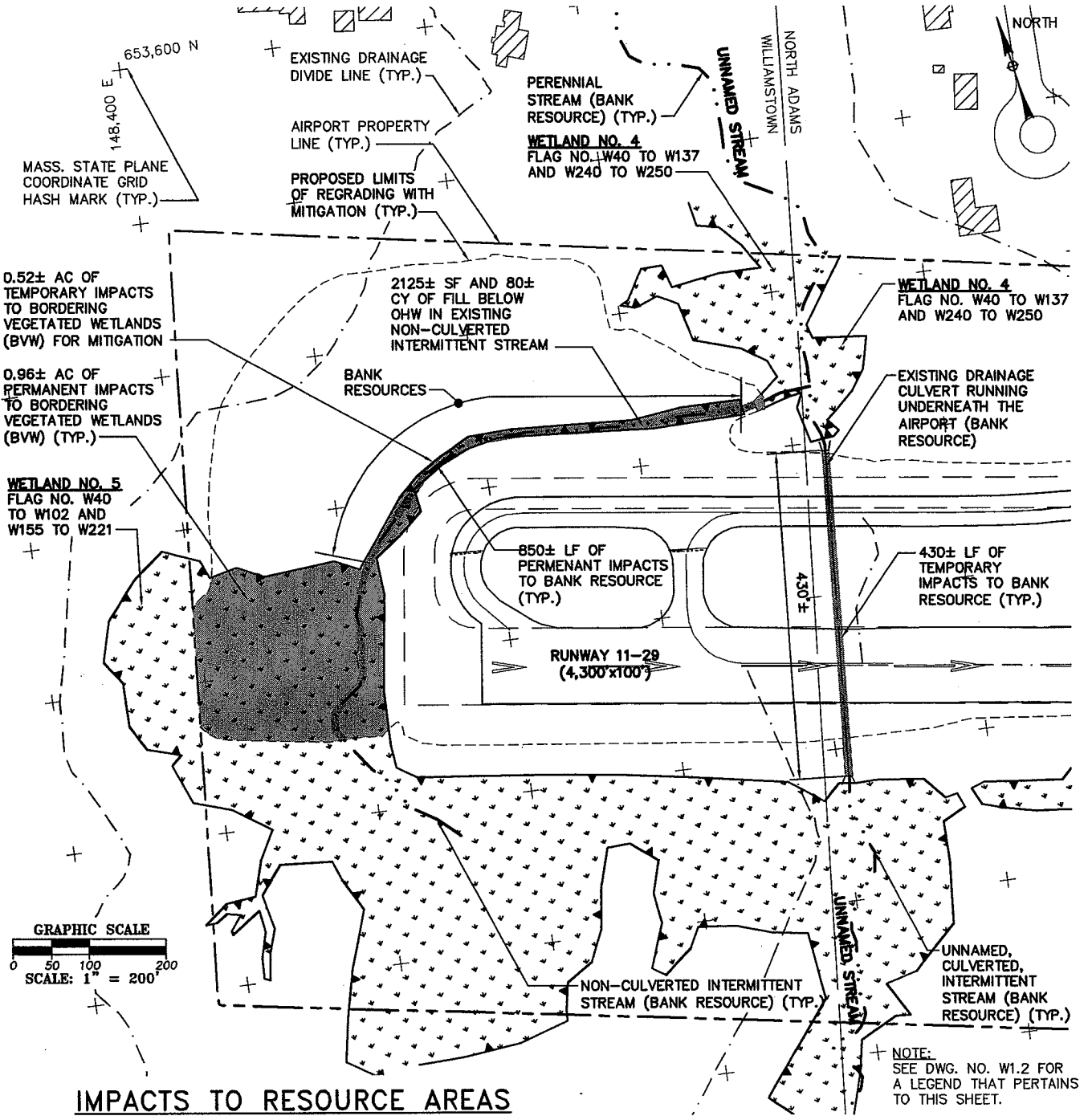
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**FIG. 16**



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**IMPACTS TO RESOURCE AREAS**

RESOURCE AREA	PROJECT IMPACTS		TEMPORARY IMPACTS FROM MITIGATION	RESOURCE AREA REPLACEMENT
	PERMANENT	TEMPORARY		
BORDERING VEG. WETLANDS (BVW)	0.96± AC	0.03± AC	0.52± AC	3.30± AC
BANK	850± LF	1,430± LF	0± LF	1,950± LF

**EXISTING WETLAND RESOURCES AND IMPACTS PLAN - NON-CULVERTED, INTERMITTENT STREAM AND UNNAMED, CULVERTED, INTERMITTENT STREAM**

SCALE: 1"=200'

NOTE: SEE DWG. NO. W1.2 FOR A LEGEND THAT PERTAINS TO THIS SHEET.

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EXISTING WETLAND RESOURCES AND IMPACTS - NON-CULVERTED, INTERMITTENT STREAM AND UNNAMED, CULVERTED, INTERMITTENT STREAM

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 HARRIMAN AND WEST AIRPORT  
 STATE ROAD (ROUTE 2)  
 CITY OF NORTH ADAMS, MASSACHUSETTS

PERMITTING PLAN SET  
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 PURSUANT TO 33 USC 1344

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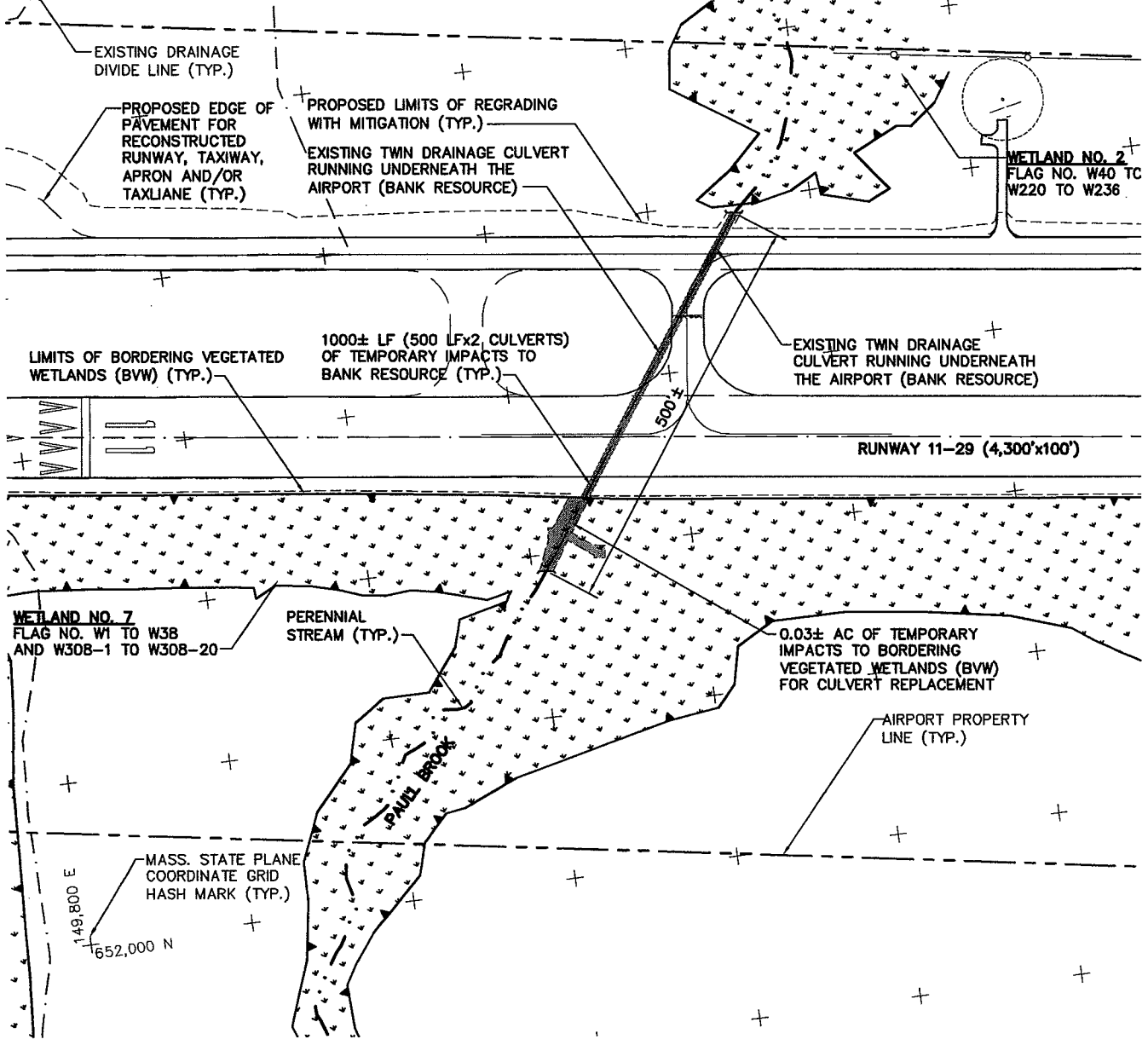
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**FIG. 17**



### LEGEND

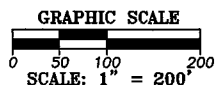
- PROPOSED EDGE OF PAVEMENT
- - - PROPOSED LIMITS OF REGRADING
- · · · · · INTERMITTENT STREAM (BANK RESOURCE)
- · · · · · PERENNIAL STREAM (BANK RESOURCE)
- - - EXISTING DRAINAGE CULVERT
- - - AIRPORT PROPERTY LINE
- ▬▬▬ IMPACTS BANK RESOURCES
- ▨ BORDERING VEGETATED WETLANDS (BVW)
- ▩ IMPACTS TO BORDERING VEGETATED WETLANDS (BVW)
- - - EXISTING DRAINAGE DIVIDE LINE



**NOTE:**  
SEE DWG. NO. W1.1 FOR A TABLE TITLED, "IMPACTS TO RESOURCE AREAS" THAT PERTAINS TO THIS SHEET.

## EXISTING WETLAND RESOURCES AND IMPACTS PLAN - PAULL BROOK

SCALE: 1"=200'



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<b>EXISTING WETLAND RESOURCES AND IMPACTS - PAULL BROOK</b>			
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<b>FIG. 18</b>	

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