PUBLIC NOTICE

US Army Corps of Engineers ® New England District 696 Virginia Road Concord, MA 01742-2751 Comment Period Begins: April 15, 2014 Comment Period Ends: May 15, 2014 File Number: NAE-2014-00525 In Reply Refer To: Dan Vasconcelos Phone: (978) 318-8653 E-mail: daniel.b.vasconcelos@usace.army.mil

The District Engineer has received a permit application to conduct work in waters of the United States from the Massachusetts Department of Transportation – Highway Division (MassDOT), 10 Park Plaza, Boston, Massachusetts 02116. This work is proposed at the bridge (No. W-37-009) conveying Hopper Road over the Green River in Williamstown, Massachusetts.

The site coordinates are: Latitude 42.677784°, Longitude -73.211147°.

Although this project may have only minimal impacts and may be eligible for authorization under the current Massachusetts General Permit, the work is not expected to begin until after the General Permit expires on January 20, 2015. The applicant is seeking an individual permit to allow for a full five years in which to complete the work.

The work involves the temporary discharge of 1,645 square feet of fill material into the Green River associated with the replacement of the bridge (No. W-37-009) conveying Hopper Road over the Green River in Williamstown, Massachusetts. The purpose of the work is to replace the existing, structurally deficient, functionally obsolete bridge with a new bridge. The proposed work would replace the existing two-span structure with a single span structure. The new abutments would be constructed behind the existing abutments. The existing north abutment would be removed entirely. The existing south abutment would be cut down to the 10-year flood elevation and retained for use as scour protection for the new south abutment, and to create a corridor for wildlife passage. The area between the old and new abutments will consist of rip-rap topped with compost and seed. The existing center pier would be cut down to the substrate. While the low chord of the new bridge will be slightly lower than the existing bridge, it will be over two feet above the 100-year flood level. Section 404 impacts are limited to the installation of a temporary sandbag cofferdam to allow demolition of the existing center pier to occur under dry conditions. No other work is proposed within the river and flow will be maintained throughout construction.

NOTE – A temporary bridge would be installed 300 feet downstream at a historic crossing location to act as a detour during construction, with the temporary abutments located behind the existing abutments, and the low chord above the 100-year flood level. The temporary bridge would consist of a span with no impacts to waters of the U.S. and will be removed following the completion of construction.

The work is shown on the attached plans entitled "WILLIAMSTOWN, HOPPER ROAD" on 8 sheets, and dated "February 17, 2014" (except sheet 1, which is dated "February 19, 2014").

In developing plans for replacing the Hopper Road bridge, MassDOT considered ways to avoid and minimize impacts to waters of the United States, including wetlands. Steps to avoid and minimize impacts to wetlands

CENAE-R FILE NO. NAE-2014-00525

and waterways include installing compost filter tubes to control sediment, conducting demolition work within a sandbag cofferdam to reduce turbidity, and installation of debris nets or similar containment methods to prevent debris from entering the river. No compensatory mitigation is proposed because there are no permanent impacts proposed.

AUTHORITY

Permits are required pursuant to:

Section 10 of the Rivers and Harbors Act of 1899

 \underline{X} 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.

NATIONAL HISTORIC PRESERVATION ACT

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.

CENAE-R FILE NO. NAE-2014-00525

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 Dan Vasconcelos at (978) 318-8653, (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.

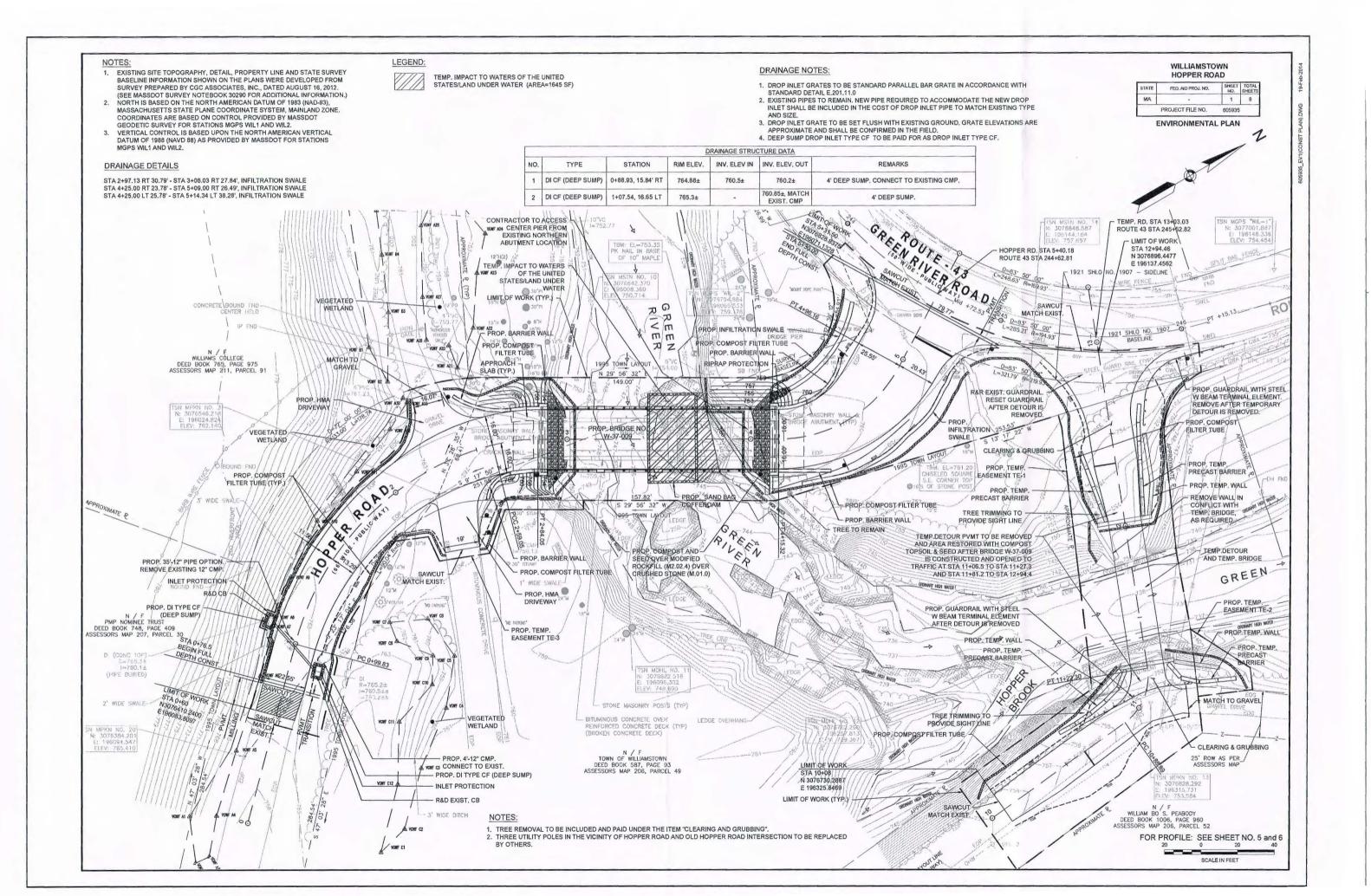
The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in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

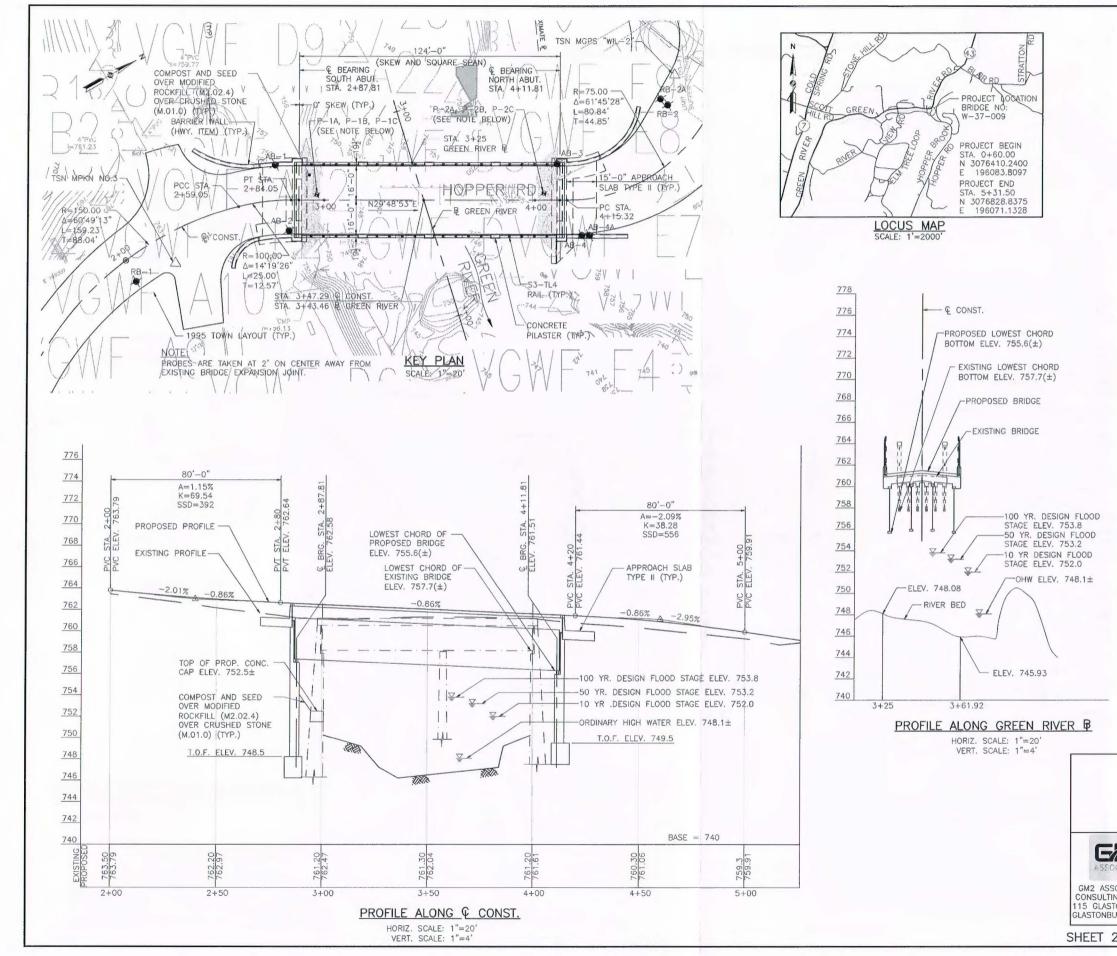
THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

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

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at <u>bettina.m.chaisson@usace.army.mil</u>. 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:	
PHONE:	





WILLIAMSTOWN HOPPER ROAD	605935_EV2(BRIDGE-COVER),DWG 17-Feb-2014
GENERAL NOTES FOR GENERAL NOTES, SEE SHEET 3 HYDRAULIC NOTES FOR HYDRAULIC NOTES, SEE SHEET 3	
 MONTH DD, YYYY ISSUED FOR CONSTRUCTION	the second second
PROPOSED BRIDGE WILLIAMSTOWN	

GENERAL NOTES

DESIGN:

IN ACCORDANCE WITH THE 2012 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATION WITH CURRENT INTERIM SPECIFICATIONS THROUGH 2013 FOR HI -93 LOADING

MASS DOT BENCH MARK:

TSN MGPS "WIL-2": N3076794.884 E196065.533 ELEV. 759.178 TSN MPKN NO. 3: N3076546.216 E196024.824 ELEV. 762.140 ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAV) OF 1988.

DATE:

TO BE PLACED ON THE INSIDE FACE OF THE NORTHWEST AND SOUTHEAST WINGWALLS. A SHEET SHOWING THE SIZE AND CHARACTER OF NUMERALS WILL BE FURNISHED. THE DATE USED SHALL BE THE LATEST YEAR OF CONTRACT COMPLETION AS OF THE DATE THE FIRST WINGWALL IS CONSTRUCTED. ALL WINGWALLS SHALL FEATURE THE SAME DATE.

MASSDOT SURVEY NOTEBOOKS:

EXISTING SITE TOPOGRAPHY, DETAIL, PROPERTY LINE AND STATE SURVEY BASELINE INFORMATION SHOWN ON THE PLANS WERE DEVELOPED FROM SURVEY PREPARED BY CGC ASSOCIATES, INC. FOUNDATIONS:

FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE APPROVAL OF THE ENGINEER

UNSUITABLE MATERIAL:

ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATION OF THE STRUCTURE, AS DIRECTED BY THE ENGINEER.

SEISMIC GROUND SHAKING HAZARD:

DESIGN SPECTRA: As = 0.070 $S_{DC} = 0.158$ $S_{D1} = 0.069$

SITE CLASS = CSEISMIC DESIGN CATEGORY = A

ANCHOR BOLTS:

ALL BRIDGE BEARING ANCHOR BOLTS SHALL BE SET BY TEMPLATE BEFORE THE CONCRETE IS PLACED, EXCEPT AT THE ABUTMENTS, WHERE CORING AND GROUTING MAY BE USED AT THE CONTRACTOR'S OPTION, PROVIDED THAT THE METHOD OF INSTALLATION WILL NOT CUT REINFORCING STEEL.

CONCRETE:

ABUTMENT FOOTINGS AND STEMS BELOW BRIDGE SEATS, WINGWALL FOOTINGS AND STEMS BELOW BARRIERS, APPROACH SLABS, AND CAP ON TOP OF EXISTING SOUTH ABUTMENT SHALL BE 4000 PSI, 1½", 565 CEMENT CONCRETE. BRIDGE CURBS, BE 4000 PSI, 1/2, 565 CEMENT CUNCRETE BRIDGE CURCES, BRIDGE PILASTERS, AND BARRIERS ON TOP OF WINGWALLS SHALL BE 5000 PSI, 4,", 685 HP CEMENT CONCRETE. THE CONCRETE DECK AND END DIAPHRAGMS SHALL BE 4000 PSI, 4,", 585 HP CONCRETE CEMENT. ABUTMENT BACKWALLS, KEEPER BLOCKS, CURTAIN WALLS AND CEMENT CONCRETE BLOCKS DETWEEN FOOTING AND STEMS SHALL BE 4000 PSI, %, 610 CEMENT CONCRETE. IF THE BOTTOM OF FOOTING IS PARTIALLY ON ROCK, AND PARTIALLY ON SOIL, SOIL SHALL BE REMOVED AND REPLACED WITH 2500 PSI, 12, 425 CEMENT CONCRETE SUBFOOTING SUBFOOTING.

REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60. ALL REINFORCEMENT IN DECK, SAFETY CURBS, BRIDGE SEATS, BACKWALLS AND TOP OF WINGWALLS SHALL BE EPOXY COATED. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

M	DIFICATION CONDITION	#4 BARS	#5 BARS	
1.	NONE	21"	26"	
2.	12" OF CONCRETE BELOW BAR	29"	36"	
3.	COATED BARS, COVER < 3d, OR	31"	39"	
	CLEAR SPACING < 6d			
4.	COATED BARS, ALL OTHER CASES	25"	31"	
5.	CONDITION 2. AND 3.	35"	44"	
6.	CONDITION 2. AND 4.	34"	43"	

IF THE ABOVE BARS ARE SPACED 6" OR MORE ON CENTER, THE LAP LENGTH SHALL BE 80% OF THE LAP LENGTH GIVEN ABOVE. ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS. ALL BOLTS SHALL BE AASHTO M164 TYPE 3, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS. TRAFFIC:

THE BRIDGE WILL BE CLOSED TO TRAFFIC DURING CONSTRUCTION. EXISTING PLANS:

PLANS FOR THE EXISTING BRIDGE ARE AVAILABLE THROUGH THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION DISTRICT 1 OFFICE IN LENOX.

ESTIMATED QUANTITIES (NOT GUARANTEED)

DEMOLITION OF BRIDGE NO. W-37-009	1 LS
REINFORCED CONCRETE EXCAVATION	1 CY
BRIDGE EXCAVATION	815 CY
ROCK EXCAVATION	30 CY
GRAVEL BORROW FOR BRIDGE STRUCTURE AND PIPES	315 CY
SUPERPAVE BRIDGE SURFACE COURSE-12.5 (SSC-B-12.5)	39 TON
SUPERPAVE BRIDGE PROTECTIVE COURSE-12.5 (SPC-B-12.5)	39 TON
GEOTEXTILE FABRIC FOR SEPARATION	97 SY
COMPOSTED MULCH FOR RIPRAP	
2500 PSI, 11/2 IN, 425 CEMENT CONCRETE	15 CY
4000 PSI, 3/6 IN, 660 CEMENT CONCRETE	1 CY
CEMENTITIOUS MORTAR FOR PATCHING	50 SF
STEEL REINFORCEMENT FOR STRUCTURE-EPOXY COATED	100 LB
DRILLING AND GROUTING DOWELS	530 LF
MODIFIED ROCK FILL	185 TON
CONTROL OF WATER - BRIDGE NO. W-37-009	1 LS
BRIDGE STRUCTURE BRIDGE NO. W-37-009	1 LS

HYDRAULIC NOTES: DRALILIC DAT

HIDRAULIC DATA		
DRAINAGE AREA:	=	31.7 MI ²
DESIGN DISCHARGE:	=	2360 FT3/S
DESIGN FREQUENCY:	=	10 YEARS
DESIGN FLOOD STAGE:	=	752.0 FT NAVE
DESIGN VELOCITY:	=	10.8 FT/S

BASIC FLOOD DATA

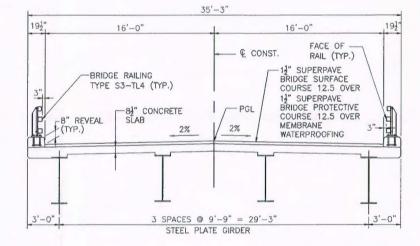
100 YEAR FLOOD DISCHARGE: = 4950 FT³/S 100 YEAR FLOOD STAGE: = 753.8 FT NAVD

FLOOD OF RECORD

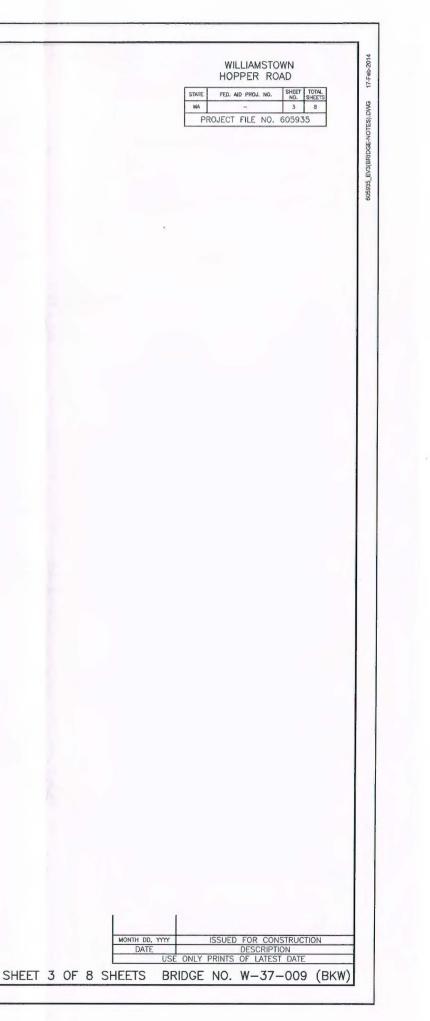
DISCHARGE:	= UNKNO	NN	
STAGE:	= UNKNO	NN	
DATE:	= SEPTEN	BFR 1	ľ

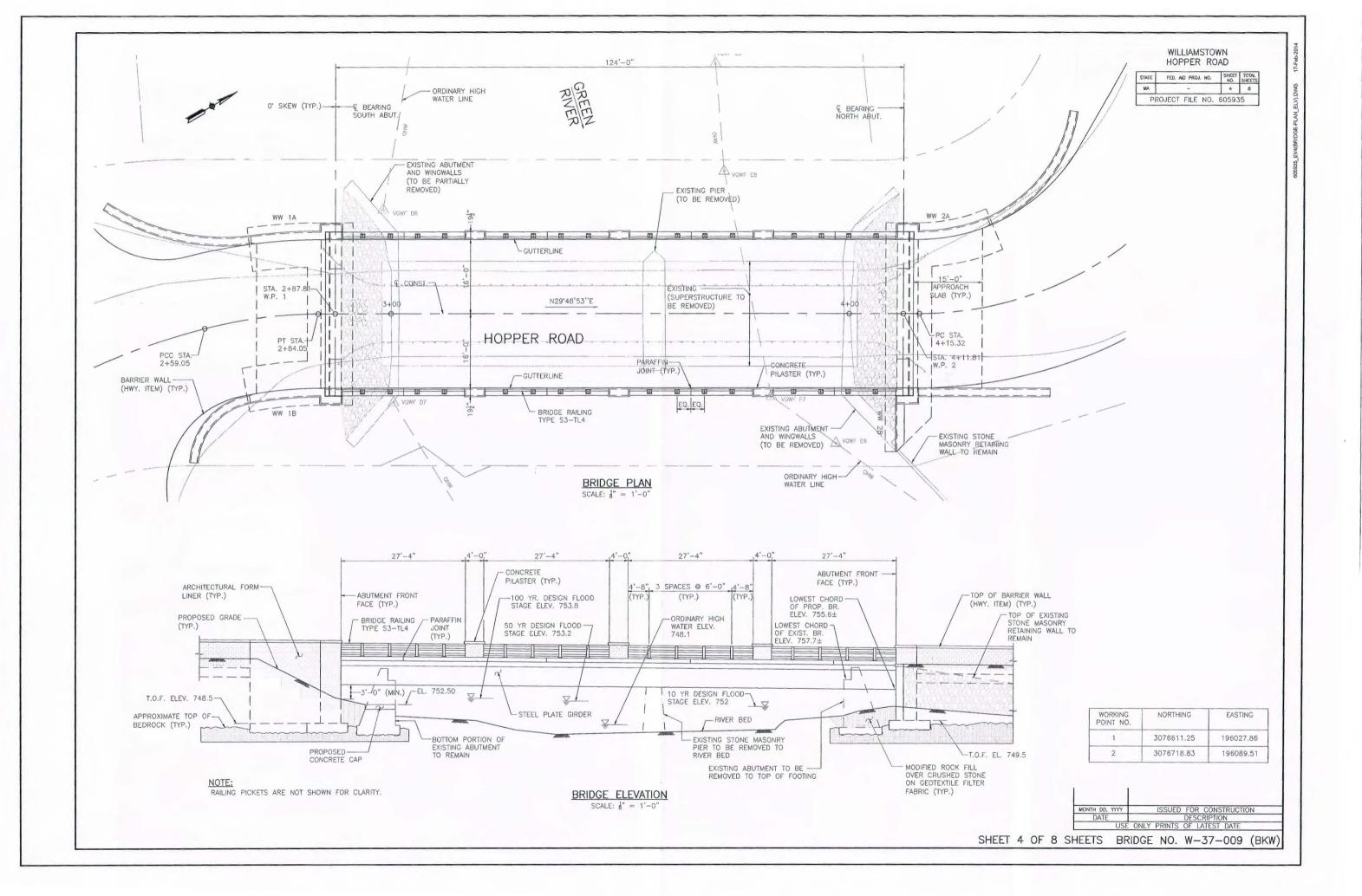
= SEPTEMBER 1938

FOOT NOTES HISTORY OF ICE: NON DOCUMENTED IN NBIS DATABASE EVIDENCE OF SCOUR OR EROSION: THE DOWNSTREAM END OF THE EXISTING PIER FOOTING / LEVELING PAD IS PARTIALLY EXPOSED.



TYPICAL SECTION OF SUPERSTRUCTURE SCALE: $\frac{1}{4}'' = 1' - 0''$





LOW POINT ELEV = 762.64 LOW POINT STA = 2+80 PVI STA = 2+40.00 BEGIN PROJECT -STA. 0+60 Hopper Road PVI ELEV = 762.99 A.D. = 1.15% K = 69.54 - PVMT MILLING N 3076410.2400 E 196083.8097 - PVMT TRANSITION 80' VC STA. 0+76.50 BEGIN FULL DEPTH CONSTRUCTION MATCH HIGH POINT ELEV = 765.32 HIGH POINT STA = 0+95 MATCH 780 PVI STA = 1+40 00 PVI ELEV = 765 00 A.D. = -1.31% K = 68.64 8 HIGH POINT ELEV = 761.44 HIGH POINT STA = 4+20 PVI STA = 4+60.00 PVI ELEV = 761.09 90' VC PVT: 2+80 ELEV: 762.6 BREAK STA = 765.458 NC: A.D. = -2.09% K = 38.28 765.3 80' VC GRADE F LOWEST CHORD OF PROPOSED BRIDGE ELEV 755.6 (±) 770 PVC 12 A - COF DWY EXISTING -STA. 2+25 RT 4+20 LOWEST CHORD OF EXISTING -PROFILE BRIDGE ELEV 757.7 (±) PAVED DWY ~0.70% E OF DWY ----PAVED STA. 2+35 LT PROPOSED -2.01% DWY MATCH EXIST. -PROFILE ---------760 EXISTING BRIDGE STRUCTURE 77 100YR DESIGN FLOOD STAGE ELEV 753.8 50YR DESIGN FLOOD STAGE ELEV 753.2 INSTALL PROTECTIVE BARRIER -¥ DURING DEMOLITION OF V. - 10YR DESIGN FLOOD STAGE ELEV 752.0 EXISTING BRIDGE DECK V. - ORDINARY HIGH WATER ELEV 748.1± PROP, COMPOST AND SEED OVER MODIFIED ROCKFILL (M2.02.4) OVER CRUSHED STONE (M.01.0) 750 (開新) TOP OF PROP CONC. CAP ELEV 752.5± -V/ . JAU The - RIVER BED NAVD 88 BASE ELEV 762.04 65.28 64.71 62.97 761.61 61.06 63.79 761.7 3+00 1+00 2+00 4+00

CONTROL POINT DATA - HOPPER ROAD					
DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
TSN MGPS " WIL-1"	246+57.43	LT, 16.96'	754.454	3077001.8670	196146.3380
TSN MGPS "WIL-2"	5+05.65	LT, 22.72'	759.178	3076794.8840	196065.5330
TSN MPKN NO. 3	2+19.73	RT, 17.49'	762.140	3076546.2164	196024.8243
TSN MPKN NO. 4	241+54.29	RT, 157.64	761.450	3076673.5445	195745.4163
TSN MPKN NO. 5	239+75.64	RT, 177.14	762.850	3076679.8536	195559.3806
TSN MSTN NO. 6	240+33.92	RT, 22.13	765.740	3076823.3914	195641.9860
TSN MSTN NO. 7	242+27.92	RT, 26.01	762.830	3076795.0247	195834.7967
TSN MSTN NO. 10	3+05.12	LT, 32.39	750,714	3076642.3705	196008,3605
TSN MDHL NO. 11	3+32.61	RT, 55.51	748.690	3076622.5181	196098.3021
TSN MDHL NO. 12	10+46.50	LT, 64.58	739.367	3076762.2903	196257.8127
TSN MPKN NO. 13	11+05.05	RT, 4.38	753.584	3076828.2924	196315.7314
TSN MSTN NO. 14	5+09.62	RT, 72.42	757.657	3076848.5869	196144.1636
TSN MPKN NO. 20	0+30.69	LT, 10.79'	765.410	3076384.2012	196094.5470

SCALE : 1" = 20' (HORZ.) 1" = 4' (VERT.)

HYDRAULIC NOTES:

 HYDRAULIC DATA
 31.7 SQUARE MILE

 DRAINAGE AREA
 = 31.7 SQUARE MILE

 DESIGN DISCHARGE
 = 2360 CFS

 DESIGN FREQUENCY
 = 10 YEAR

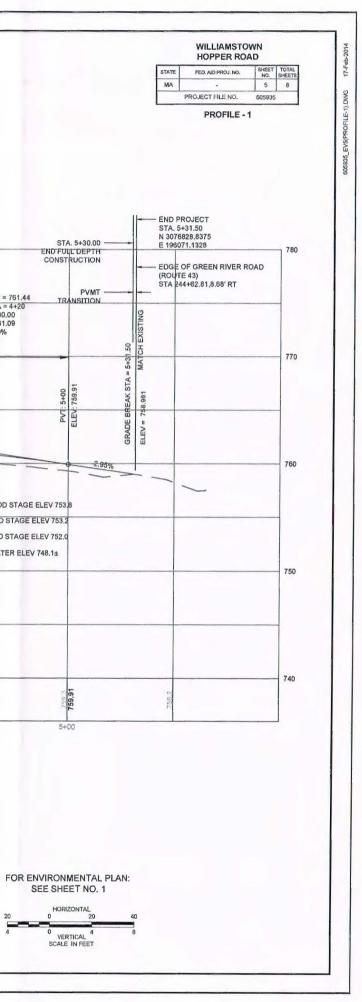
 DESIGN FREQUENCY
 = 10 YEAR

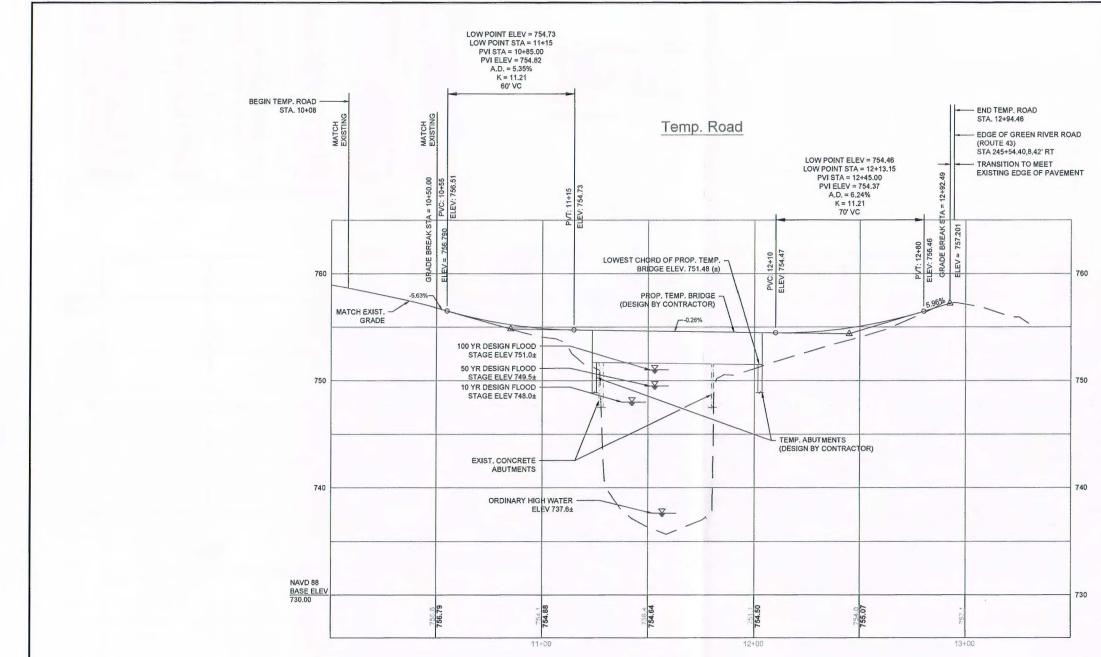
 DESIGN VELOCITY
 = 10.8 FPS

 BASE FLOOD DATA
 = 10.8 FPS

 100 YEAR FLOOD DISCHARGE
 = 4950 CFS

 100 YEAR FLOOD DATAGE
 = 753.8 FT, NAVD





	CON	TROL POINT DATA	- HOPPER ROAD		
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	WILLIAMSTOWN	2014
	STATE FED. AID PROJ. NO. SHEET TOTAL NO. EHEETS	17-Feb-2014
	MA - 6 8	
	PROJECT FILE NO. 605935 PROFILE - 2	E-2).DM
		605935_EV6(PROFILE-2),DWG
		5_EV6(
		60593
		а —
ENVIRONMENTAL PLAN:		
SEE SHEET NO. 1		
HORIZONTAL 0 20 40		
VERTICAL 4 8		
SCALE IN FEET		

