

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: March 19, 2013
Date of Addendum: March 6, 2013

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
003	10-6282-602	BRIDGE REPLACEMENT - PPCB	BUCHANAN	BRS-6282(602)--60-10	19MAR003.A02

Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

Add the following to the contract documents:

MUSSEL relocation

The Iowa DNR has records of the State-Threatened Creek Heelsplitter in the project area. Therefore prior to construction, the DNR is requiring that mussels within the footprint of the project be relocated. The Buchanan County Engineer has hired a qualified individual to relocate the mussels within the indicated area. The timeframe for the relocation is dependent on water temperatures and can only take place when the water is above 40 degrees F. The relocation is anticipated to take two weeks and begin in Mid May depending on water temperatures and water flow conditions. The removal cannot take place during a high flow period. The contractor may occupy dry areas on the project site prior to the mussel relocation. The contractor cannot occupy or cross any wetted areas of the stream until the relocation has been conducted. The contractor cannot conduct work within the wetted areas of the stream until the mussel relocation has occurred. The contractor cannot occupy wetted areas of the stream outside those indicated for mussel relocation unless they conduct their own mussel relocation efforts in areas outside those indicated. If additional mussel relocation is conducted the efforts shall be in accordance with DNR approved procedures including all reporting to the DNR and US Army Corps of Engineers.

Boat Ramp Closure Notice:

Signage needs to be placed to indicate the boat ramp is not available for use during the construction period. The cost of this signage shall be considered part of the overall project cost for traffic control. Sign placement and design shall be approved by the Engineer prior to closure of the boat ramp. The signage shall indicate the anticipated time the ramp will re-open for use.

Site 01 Work

No calendar days will be charged for work accomplished in site 01 until the mussel relocation is completed.

Attached Sovereign lands and Flood Plain Permit

Add the following to the plan set:

Attached plan sheet A.3



STATE OF IOWA

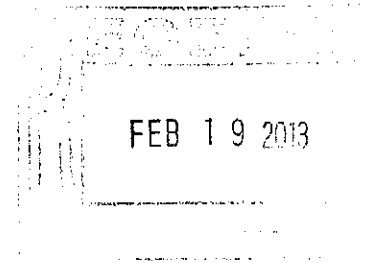
TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

February 14, 2013

IIW, P.C.
Attn: Bradley Mootz
4155 Pennsylvania Ave
Dubuque, IA 52002

RE: Environmental Review for Natural Resources
Water Street (W35) Bridge Replacement
Wapsipinicon River (at Quasqueton)
Buchanan County
Section 34, Township 88N, Range 8W



Dear Mr. Mootz:

Thank you for submitting the joint application packet for Department review. The Department has conducted an environmental review of the application materials concerning the proposed project and determined that no land or water under the jurisdiction of the State of Iowa is involved in the project area; therefore, a sovereign lands construction permit pursuant to Chapter 461A of the Iowa Code will not be required for this project. However, before proceeding with the project, you must obtain any other permits from the DNR or state and federal agencies that may be required for this work.

The Department has records of the State-Threatened Creek Heelsplitter (*Lasmigona compressa*) in the project area. Therefore, prior to construction, the Department recommends that mussels within the footprint of the project be relocated. As provided under Chapter 481B of the Code of Iowa, the Department of Natural Resources authorizes the Buchanan County Engineers Office (the County) to relocate any mussels associated with this project and hereby grants permission to proceed subject to stipulations stated herein.

The results of the mussel relocation of the bridge replacement project area should be submitted to the Department prior to construction. The relocation should be conducted by a qualified malacologist or qualified biologist knowledgeable in mussel identification a maximum of 90 days prior to construction unless otherwise approved. The contractor should consult with the Department two weeks prior to the mussel relocation to coordinate avoidance, minimization, and mitigation measures. Work should not begin in advance of contact with the Fisheries Biologist in charge of the area. You may contact Dan Kirby (Fisheries Biologist) at (563) 927-3276.

A report should be provided to the Iowa DNR (Daryl Howell and Kelly Poole) and the Corps within 30 days following the relocation effort indicating the number of State-listed individuals that were relocated, their original locations, where they were relocated to, their sizes, ages, sex, and condition. Habitat conditions at the relocation area must also be clearly documented. Information regarding the relocation of the non-listed species will also be included.

The project was also reviewed by the Department with regard to impacts to recreational use of the public boat ramp and park adjacent to the bridge replacement. The boat ramp located beneath the bridge should be appropriately signed for closure with anticipated construction schedule to inform anglers and paddlers. All efforts should be made to have the boat ramp upstream of the dam and the park "in-and-around" the dam remain open to public use during bridge construction if there are not specific public safety concerns.

This letter is a record of review for protected species, rare natural communities, state lands and waters in the project area, including review by personnel representing state parks, preserves, recreation areas, fisheries and wildlife but does not include any comment from the Environmental Services Division of this Department. This letter does not constitute a permit. Other permits may be required from the Department or other state or federal agencies before work begins on this project.

As you are the authorized agent for this project, the Department requests that you provide copies of this letter to the Buchanan County Engineer and the City of Quasqueton.

If you have questions about this letter or require further information, please contact Kelly Poole at (515) 281-8967.

Sincerely,



Chuck Gipp
Director

FILE COPY: Kelly Poole

Tracking Number: 8109

CC: Kelly Poole, Iowa DNR (email)
Chris Schwake, Iowa DNR (email)
Daryl Howell, Iowa DNR (email)
Dan Kirby, Iowa DNR (email)



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

February 12, 2013

Buchanan County
C/o Bradley J. Mootz
IIW, P.C.
4155 Pennsylvania Avenue
Dubuque, IA 52002

RE: Proposed Replacement of an Existing Steel Girder Bridge with a 426 foot Precast Prestressed Concrete Beam Bridge on Water Street (W35) (BR 9660) (Wapsipinicon River)
The SW1/4 of the NE1/4 of Section 34, T88N, R08W; Buchanan County, Iowa within the corporate limits of the City of Quasqueton

Dear Mr. Mootz:

Your application for a Flood Plain Development Permit for the above referenced project has been approved. Enclosed is Flood Plain Development Permit Number FP 2012-283 and an approved copy of the engineering plans. The permit was issued subject to various conditions, which you should review carefully. Please pay particular attention to condition 7, which addresses the disposal of spoil material. If you don't agree with any of the conditions, you have 30 days from the date of mailing of the permit to appeal. If you wish to appeal, it is suggested that you contact our Legal Services Section within 15 days to determine the correct procedure and format. Also, you should be aware of the fact that any person can appeal the issuance of this permit within the same 30-day period.

Also enclosed is a DNR Form 37, Notification of Completion of Construction. The Form 37 must be completed and returned within 30 days of the completion of construction.

The project also requires a local flood plain development permit from the City of Quasqueton. If you have not yet done so, please contact the City's Flood Plain Manager (Cody Kimball at (319) 934-3340) for assistance on applying for the local flood plain permit. We have reviewed the project and would not object if the City grants a permit.

Please note that the project requires a Sovereign Lands Construction Permit (Construction Permit) from the Department. It is my understanding that the Construction Permit has been completed and will be mailed to you in the same packet as this flood plain response. The Construction Permit contains conditions and instructions that the applicant is required to follow. You should be aware that construction may not begin until all necessary permits are obtained.

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The permittee is responsible for complying with all other local, state and federal statutes, ordinances, rules and permit requirements applicable to the construction, operation and maintenance of the approved works. The project may require a Section 404 Permit from the U.S. Corps of Engineers.

Thank you for your patience and cooperation. If you have any questions, please contact Asia Azam of our office at 515-281-8869.

Sincerely,



for
Kelly M. Stone, P.E.
Environmental Engineer Senior
Water Resources Section

Enclosures

Copies: -IDNR FO #1

-Ward Lenz; Rock Island District, U.S. Army Corps of Engineers;
P.O. Box 2004; Rock Island, IL 61204-2004

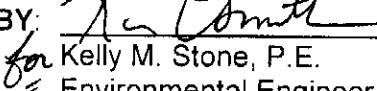
-Cody Kimball; City Clerk; 113 N. Water Street; Quasqueton, IA 52326-0015

-Brian Keierleber; Buchanan County Engineer; 1511 First Street East;
Independence, IA 50644

IOWA DEPARTMENT OF NATURAL RESOURCES
FLOOD PLAIN DEVELOPMENT PERMIT

PERMIT NUMBER: FP 2012-283

PERMIT ISSUED TO: Buchanan County
1511 First Street East
Independence, IA 50644

PERMIT ISSUED BY:  DATE: Feb 13, 2013
for Kelly M. Stone, P.E.
Environmental Engineer Senior, Water Resources Section

PROJECT LOCATION: SW1/4 of the NE1/4 of Section 34, T88N, R08W; Buchanan County,
Iowa within the corporate limits of the City of Quasquetin

PERMITTED ACTIVITY: In accordance with the approved engineering plans and subject to the following permit conditions, permittee is authorized to construct and maintain a 426 feet precast prestressed concrete beam bridge with associated channel revetment on the flood plain of the Wapsipinicon River at the above-described location.

BASIS FOR ISSUANCE: The decision to issue this permit was based on a staff review of the project with respect to relevant approval criteria contained in Chapter 72 of the Department's administrative rules (Agency 567, Iowa Administrative Code) and applicable provisions of Iowa Code Sections 455B.262, .264, .275 and .277. Results of the staff review are summarized in the attached Project Summary Report dated August 22, 2012, and this report is a part of this permit.

PERMIT CONDITIONS:

1. **Disclaimer.** No legal or financial responsibility arising from the construction, operation or maintenance of the approved works shall attach to the state of Iowa or the Department due to issuance of this permit.
2. **Maintenance.** The permittee and any successor in real estate on which the permitted activity is located shall be responsible for proper maintenance.
3. **Other Permits, Licenses and Regulations.** The permittee shall be responsible for complying with all other local, state and federal statutes, ordinances, rules and permit requirements applicable to the construction, operation and maintenance of the approved works.
4. **Revocation.** This permit may be revoked by the Department if construction is not begun within 5 years of the date of issue.
5. **Change in Plans.** This permit only authorizes construction in accordance with the approved engineering plans. No changes shall be made without prior authorization from the Department.

6. **Lands, Easements and Rights-of-Way**. The permittee shall be responsible for obtaining all lands, easements or rights-of-way necessary for the construction and maintenance of the approved works.
7. **Spoil Disposition Requirements**. Excess spoil material resulting from the project shall be removed from the flood plain. In addition, spoil material should not be placed in an area that is, or could be, classified as a regulated wetland.

CERTIFICATION OF MAILING

I hereby certify that I have this 15 day of February, 2013 mailed Flood Plain Development Permit No. FP 2012-283 to the permittee.

By Charles B.

**SUMMARY OF ENGINEERING DATA
(BRIDGE PROJECTS)
(BR 9660--FP 2012-283)**

Applicant: Buchanan County
 Location: The SW1/4 of the NE1/4 of Section 34, T88N, R08W; Buchanan County, IA
 Stream: Wapsipinicon River
 Drainage Area: ~1141 mi² (from plans) and 1145 sq. miles (Arc GIS)

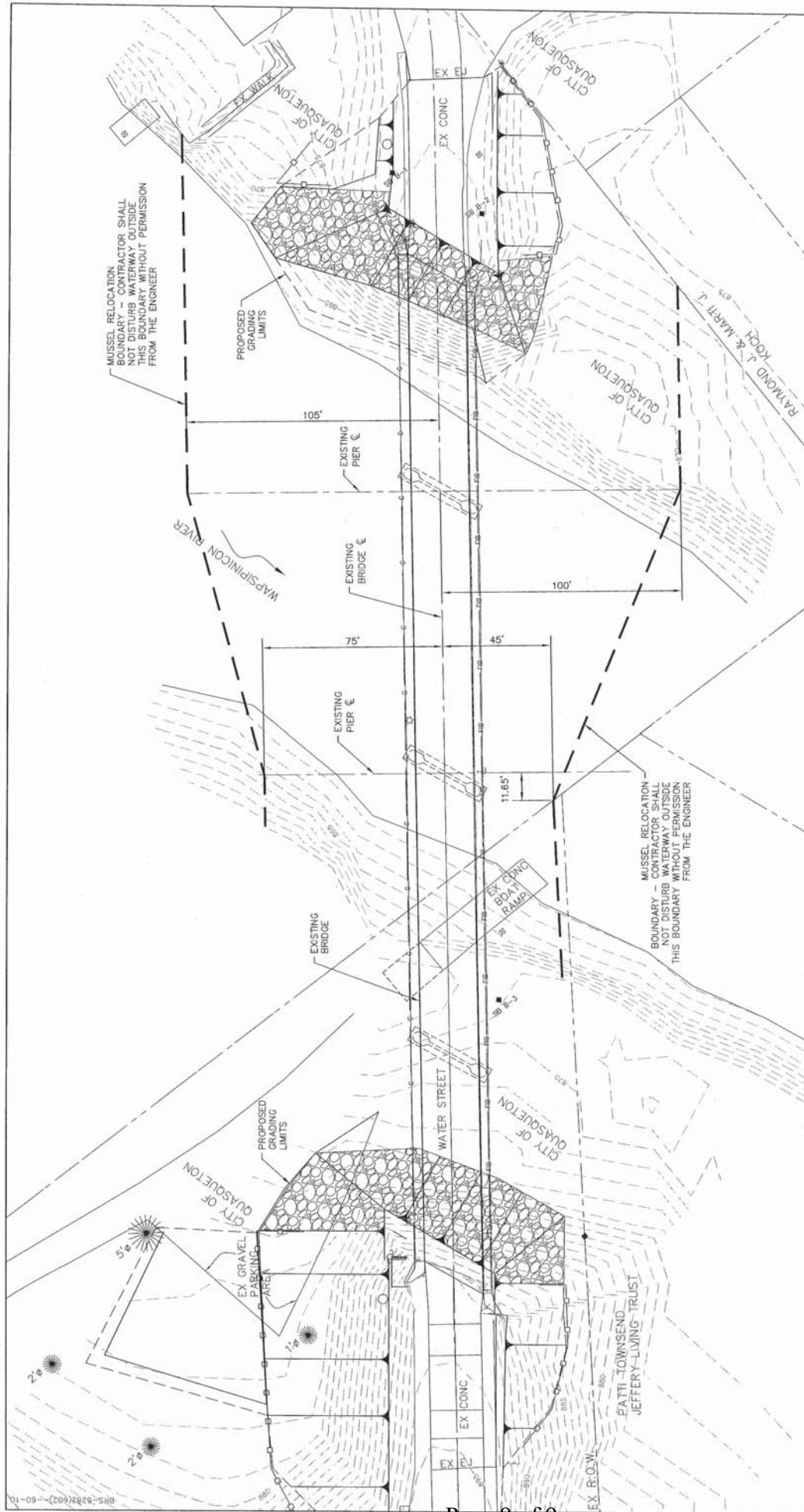
Typical Width of Stream	~148 ft. (measured water surface in aerial photograph)	
Stream Slope	2.904 ft./mi. 0.00055 ft./ft. (from USGS Open File Report & Survey Data)	
Main Channel Slope	3.00 sq. miles (WRIR 00-4233)	
Existing Bridge Length	417 ft.	
Proposed Bridge Length	426 ft.	
Proposed Bridge Angle	30.00	degrees
Proposed Pier Skew Angle	0.00	degrees

Elevation Data: (ft., NAVD '88)

Channel Bottom	860.0 (plans and the hydraulic model)
Average Flood Plain	881.46 ft.
Record High Water	880.64 (measured in May 1999)
Record Peak Discharge	31,100 cfs (May 18, 1999)
Low Superstructure	884.31 ft. (at mid span, from plans)
Low Point in Approach Grade	880 (from plans)
Flood Elevation US edge of bridge	880.05 ft. (from model for freeboard calc.)

Flood Frequency Data	<u>50 yr.</u>	<u>100 yr.</u>
Discharge (cfs)	29,894	34,000
Natural Flood Elevation (ft., HEC-RAS) @ 5.0	880.44	882.26
Waterway Opening (sq. ft.)	4678	4976
Average Bridge Velocity (ft./sec.)	6.38	6.76
Estimated Backwater (ft.)	0.2	0.2
Freeboard (ft.)	4.26	NA

The discharges were calculated using the three variable regional equations using USGS WRIR 00-4233. The bridge was reviewed with the HECRAS Model provided by the applicant, along with some modifications made by DNR staff, see project report for details.



ADDENDUM #1

Design For
426'x32' 30" SKEW LA PPCB BRIDGE
WATER ST OVER WAPSINICON RIVER
 96'-0" End Spans 117'-0" Center Spans
MUSSEL RELOCATION AREA

Station: 20+00.00 Date: _____
 BUCHANAN COUNTY

THE IOWA DNR IS REQUIRING A MUSSEL RELOCATION PRIOR TO CONSTRUCTION. THIS MUSSEL RELOCATION WILL OCCUR WHEN THE CONTRACTOR HAS COMPLETED ALL WORK ABOVE. NO WORK CAN BE CONDUCTED IN THE WATER UNTIL THE MUSSELS ARE RELOCATED.

DESIGNED BY: _____	PROJECT NUMBER: _____	STATE: IOWA	FED. ROAD DIST. NO.: _____	SHEET NO.: _____	TOTAL SHEETS: _____
TRACED BY: _____	BUCHANAN COUNTY				
CHECKED BY: _____	563.556.2464 • 800.558.4461				
	iiw				
	WWW.IIWR.COM				