

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: December 17, 2013  
Date of Addendum: December 12, 2013

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
033	90-5825-641	BRIDGE REHABILITATION	WAPELLO	BRM-5825(641)--8N-90	17DEC033.A02

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

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Add the following to the PROPOSAL SPECIAL PROVISIONS TEXT and the PROPOSAL SPECIAL PROVISIONS LIST:

DS-12028    October 16, 2012

DEVELOPMENTAL SPECIFICATIONS FOR FLOATING SILT CURTAIN

Make the following change to the PLANS:

Add attached STANDARD ROAD PLAN EC-202.

Add the attached Army Corps of Engineers Permit Number CEMVR-OD-P-2013-306-1. The reference to Section 404 nationwide Permit 14, Permit NO. 2013-306 on Drawing Sheet 1 is replaced by Permit NO. 2013-306-1.



**DEVELOPMENTAL SPECIFICATIONS  
FOR  
FLOATING SILT CURTAIN**

**Effective Date  
October 16, 2012**

**THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**12028.01 DESCRIPTION.**

Floating Silt Curtains are temporary control measures used for containing suspended sediment in an area of open water. Open water is described as any perennial water course or water body with 6 inch (150 mm) or greater depth. Floating Silt Curtains consist of fabric fastened to a flotation carrier and weighted along the bottom edge. Two types of Floating Silt Curtains may be utilized:

**A. Floating Silt Curtain (Containment).**

Floating Silt Curtain (Containment) is intended to capture all sediment entering the water during construction activities and the sediment is to be completely removed with the floating silt curtain upon completion of the work.

**B. Floating Silt Curtain (Hanging).**

Floating Silt Curtain (Hanging) is intended to create a static water area isolated from the water course or water body. Sediment entering the static water area is isolated and settles out of suspension within the area of the floating silt curtain.

**12028.02 MATERIALS.**

- A.** Floating Silt Curtains shall meet the following minimum requirements and manufacturer recommendations:

**Table DS-12028.02-1: Floating Silt Curtain Requirements**

<b>Property</b>	<b>Value</b>
Curtain Fabric Material Type	Impermeable vinyl-coated nylon
Mass Per Square Yard (m <sup>2</sup> )	22 oz. (0.75 kg)
Grab Tensile Strength ASTM D 4632 *	500 lbs. (2.2 kN)
Flotation	8 inch (200 mm) diameter marine quality expanded polystyrene
Net Buoyancy, Per Foot (m)	20 lbs. (300 N)
Top Load Carrying Components	Fabric plus 5/16 inch (8 mm) galvanized steel cable 9800 lbs. (40 kN) minimum break strength
Ballast, Lbs. Per Foot (Kg/m), Minimum	1.1 lbs./foot (1.6 kg/m) enclosed 5/16 inch (8 mm) galvanized chain
Connection Between Sections	Aluminum collar reinforced quick disconnects

\* Minimum average roll value.

- B. Design connecting devices to prevent silt from permeating through the connection and at specified strength to prevent ripping out.

**12028.03 CONSTRUCTION.**

**A. General.**

1. Construct Floating Silt Curtain as shown in the contract documents and to the expected water depth plus wave height.
2. On U.S. Coast Guard regulated waters or other navigable waterways, furnish buoys to mark the ends and special areas for visibility. Place buoys as required for navigational purposes.
3. Floating Silt Curtain shall be installed adjacent to planned work area prior to soil disturbance. The curtain shall be installed along the complete work area which is planned to be disturbed and to points 20 feet (6 m) beyond the limits of the area of disturbance and tied into the existing soil bank.
4. Floating Silt Curtain (Containment) installations will require both a containment floating silt curtain and a hanging floating silt curtain. Install the two floating silt curtains as shown in the contract documents with the containment silt curtain closest to shore and the hanging silt curtain 10 feet (6 m) outside the containment silt curtain.
5. Do not discharge water pumped from the work site into an area of unrestrained open water.
6. Control surface drainage prior to entry into the water by installation of appropriate erosion control measures on land.

**B. Floating Silt Curtain (Containment).**

1. Anchors shall include a chain that has a minimum weight of 3.3 pounds (1.5 kg) per yard and anchor weights as needed to hold the curtain down.
2. Inspect the containment floating silt curtain after heavy winds or major rain storms (1 inch (25 mm)) to check for damage and depth of silt on the bottom of the silt curtain. If 2 inches (50 mm) or more of silt is present on top of the silt curtain, remove the silt curtain and silt as described below and reinstall floating silt curtain.
3. Upon completion of the work or when clean-out of containment silt curtain is required, remove containment silt curtain and contained silt by pulling the top of curtain towards land until it reaches the trench line. Remove entrenched fabric and pull both ends up and out of the water. Dispose of collected silt offsite at an upland, non-wetland location or as approved by the Engineer. Following removal of containment curtain, the hanging curtain shall remain in place for a minimum of 48 hours after which it can be removed, provided all work in the area being protected is completed.

**C. Floating Silt Curtain (Hanging).**

1. Anchors shall be a minimum of 40 pounds (18 kg) and located at a maximum spacing of 100 feet (30 m) along curtain.
2. Hanging silt curtain shall remain in place for a minimum of 48 hours after completion of work activity to allow suspended sediment to settle out after which time the silt curtain can be removed. Remove curtain in a manner that will prevent re-suspension of silt into the water.

**12028.04 METHOD OF MEASUREMENT.**

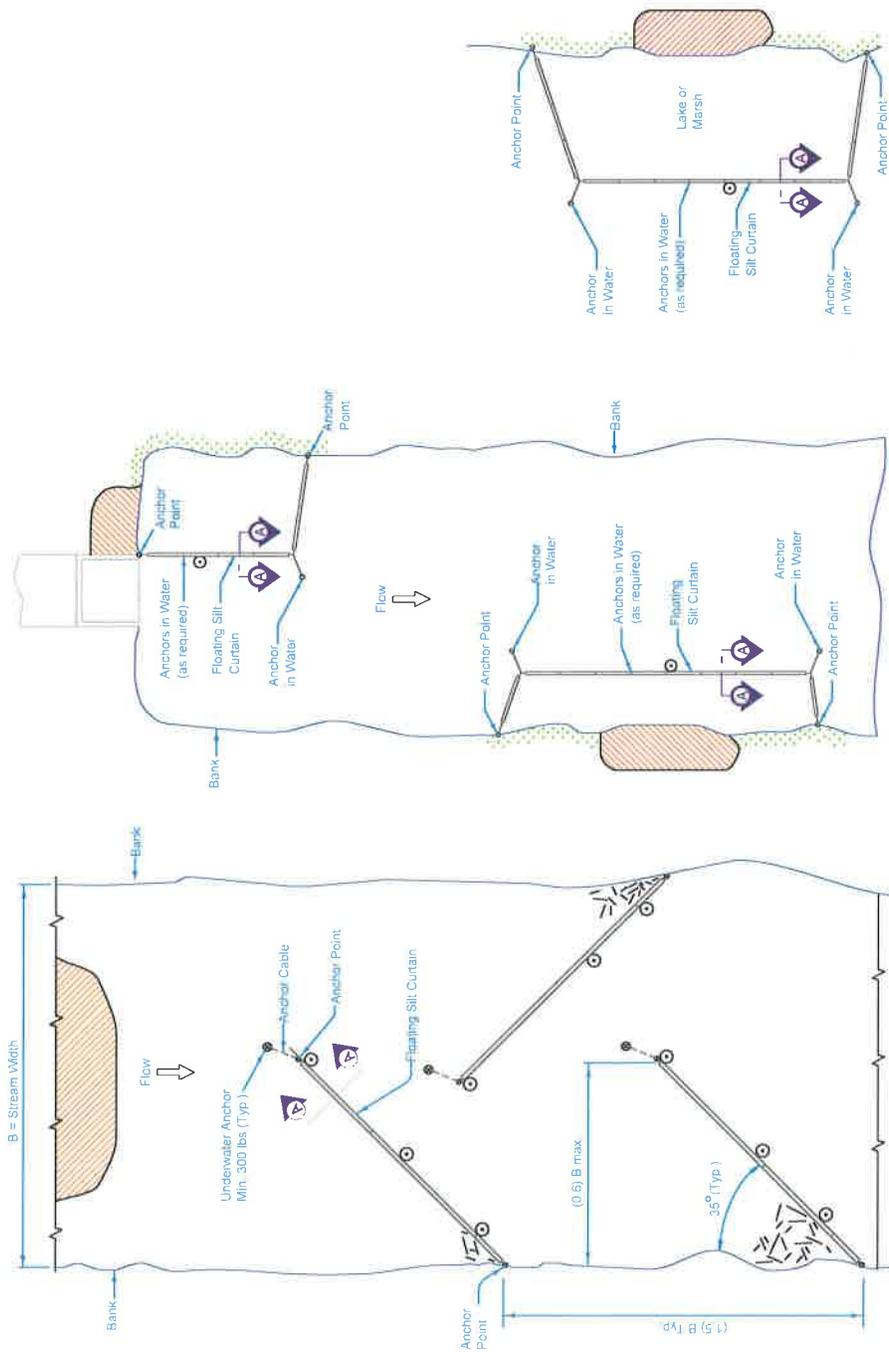
- A. Floating Silt Curtain, of the type specified, will be measured by length in feet (meters) furnished and installed.
- B. Clean-out of Floating Silt Curtain (Containment) will be measured by length in feet (meters) removed, cleaned, and reinstalled (if necessary) each time cleaning is required.

**12028.05 BASIS OF PAYMENT.**

- A. Payment for Floating Silt Curtain (Hanging) will be the contract unit price for the length in feet (meters) of hanging silt curtain furnished and installed. Payment is full compensation for labor, equipment, and materials necessary to construct, maintain, and remove hanging silt curtain. Upon satisfactory installation of hanging silt curtain, the Engineer may authorize partial payment not exceeding 80% of the quantity placed. Remaining quantity will be paid after Floating Silt Curtain is removed.
- B. Payment for Floating Silt Curtain (Containment) will be the contract unit price for the length in feet (meters) of containment silt curtain furnished and installed. Payment is full compensation for labor, equipment, and materials necessary to construct and maintain containment silt curtain.
- C. Payment for Clean-out of Floating Silt Curtain (Containment) will be the contract unit price for the length in feet (meters) of the Containment Silt Curtain removed each time cleaning is required. Payment is full compensation for labor and equipment necessary to remove and clean containment silt curtain, remove and dispose of collected silt, and reinstall containment silt curtain (if necessary). Clean-out of Floating Silt Curtain (Containment) will be paid to remove the containment silt curtain at the completion of the project.

**DESIGNER INFO**

Keep silt curtain as close to work area as possible.  
 Depth of curtain is the dimension of the curtain fabric extending below the flotation, i.e. hanging in the water.  
 Install according to Hanging Installation unless specified otherwise.



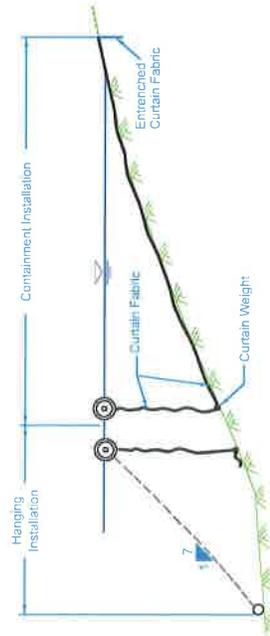
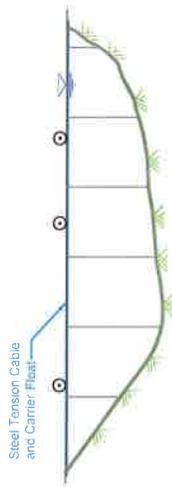
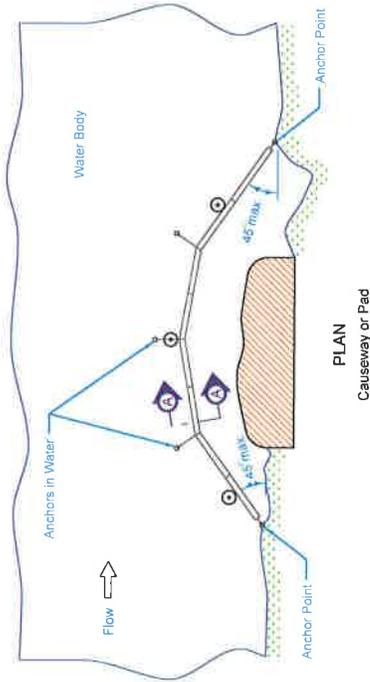
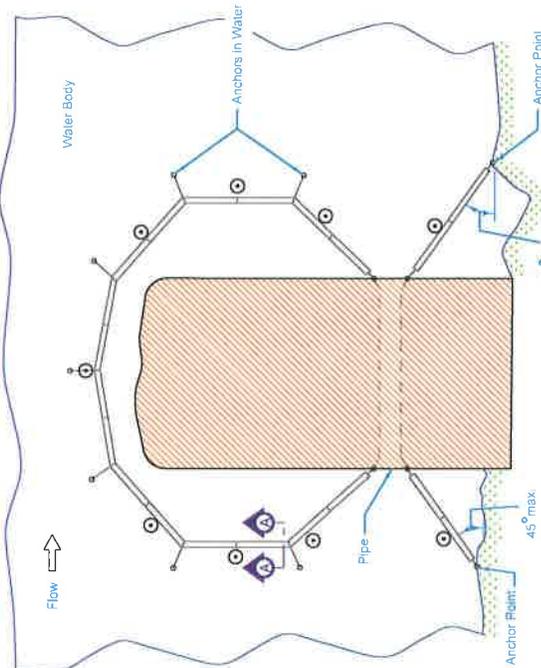
**LEGEND**

	Carrier Float
	Buoy
	Undisturbed Vegetation
	Disturbed Soil

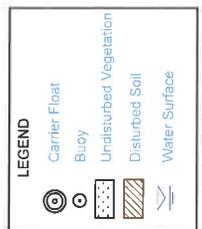
- Possible Tabulation:  
 100-10
- Possible Contract Items:  
 Clean-out of Floating Silt Curtain (Containment)  
 Floating Silt Curtain (Containment)  
 Floating Silt Curtain (Hanging)  
 Maintenance of Floating Silt Curtain

REVISION	5	12-02-13
<b>INTERIM</b>		
<b>STANDARD ROAD PLAN</b>		
SHEET 1 OF 2		
REVISIONS: Addendum 1001 typical sections between anchors on page 7. Added Possible Contained Item. Removed dimensions of electrical poles and cable male 1.		
 APPROVED BY REGIONAL MANAGER, FEDERAL CONTRACTS		
<b>FLOATING SILT CURTAIN</b>		

① When Containment Installation is specified, it will be in combination with a Hanging Installation that is paid for separately.



① Containment Installation



<b>INTERIM</b>	REVISION	5	12-02-13
	<b>STANDARD ROAD PLAN</b>		
<b>EC-202</b>		SHEET 2 of 2	
<small>REVISIONS: Reviewer 100% typical spacing between anchors on bridge. Check possible contact form. Approved signature of professional engineer and update date: 12-02-13</small>			
<small>ADMINISTRATIVE FOR INTERIM AND INTERIM TECHNIQUES</small>			
<b>FLOATING SILT CURTAIN</b>			



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, ROCK ISLAND DISTRICT  
PO BOX 2004 CLOCK TOWER BUILDING  
ROCK ISLAND, ILLINOIS 61204-2004

REPLY TO  
ATTENTION OF

December 12, 2013

Operations Division

SUBJECT: CEMVR-OD-P-2013-306-1

Mr. Dan Sturm, P.E.  
Ottumwa City Engineer  
105 East Third Street  
Ottumwa, Iowa 52501

Dear Mr. Sturm:

Our office reviewed all information provided to us concerning the proposed bridge deck replacement and pier modification project with associated temporary crossing in the Des Moines River, Section 25, Township 72 North, Range 14 West, Wapello County, Iowa.

Your project is covered under Nationwide Permit No. 14, as published in the enclosed pages of February 21, 2012 Federal Register notice (77 FR 10184), provided you meet the permit conditions for the nationwide permits which are also included in the Federal Register and the special conditions listed below. The Iowa Department of Natural Resources (IADNR) has issued Section 401 Water Quality Certification with conditions for the current nationwide permit program. The decision regarding this action is based on information found in the administrative record, which documents the District's decision-making process, the basis for the decision, and the final decision.

The Iowa Department of Transportation is responsible for the NEPA process for this project which includes compliance with the Endangered Species Act and the National Historic Preservation Act.

Special Conditions:

1. You are encouraged to conduct your construction activities during a period of low flow. You are required to implement appropriate measures to insure that sediments are not introduced into waters of the United States during construction of this project.
2. All temporary fills and structures shall be removed to an upland non-wetland site.
3. Bank and shoreline protection shall consist of suitable clean materials, free from debris, trash, and other deleterious materials. If broken concrete is used as riprap, all reinforcing rods must be cut flush with the surface of the concrete, and individual pieces of concrete shall not exceed 3 feet in any dimension. Asphalt, car bodies, and broken concrete containing asphalt are specifically excluded from this authorization.
4. You are responsible for insuring that whoever performs, supervises, or oversees any portion of the physical work associated with the construction of the project has a copy of, is familiar with, and complies with all the terms and conditions of this permit.

5. Nationwide Permit General Condition No. 12 of the attached Federal Register states “Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.”

6. Finally, the permittee will perform any corrective measures deemed necessary by the District Engineer.

This verification is valid until March 18, 2017, unless the nationwide permit is modified, reissued or revoked. It is your responsibility to remain informed of changes to the nationwide permit program. We will issue a public notice announcing any changes if and when they occur. Furthermore, if you commence or are under contract to commence this activity before the date the nationwide permit is modified or revoked, you will have twelve months from that date to complete your activity under the present terms and conditions of this nationwide permit.

This authorization does not eliminate the requirement that you must still acquire other applicable federal, state and local permits. If you have not already coordinated your project with the IADNR, please contact Mr. Kelly Stone in writing or telephone 515/281-8693 to determine if a floodplain development permit is required for your project. You should also contact Ms. Kelly Poole, of the IADNR Sovereign Lands Division in writing or telephone 515/281-8967 to determine if a sovereign lands construction permit is required or if this project may adversely impact Iowa threatened or endangered species or their habitat.

Our office has completed a Preliminary Jurisdictional Determination for your project area. A copy of our Preliminary Jurisdictional Determination is enclosed. A Preliminary Jurisdictional Determination is not appealable, and it is applicable only to the permit program administered by the Corps of Engineers. **Please review, sign, date, and return the form to our office.**

You are required to complete and return the enclosed “Completed Work Certification” upon completion of your project in accordance with General Condition No. 30 of the nationwide permits.

The Rock Island District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete the attached postcard and return it or go to our Customer Service Survey found on our web site at <http://per2.nwp.usace.army.mil/survey.html>. (Be sure to select “Rock Island District” under the area entitled: Which Corps office did you deal with?)

Should you have any questions, please contact our Regulatory Branch by letter, or telephone me at 309/794-5674.

Sincerely,

Original Signed By

Gene W. Walsh  
Project Manager  
Enforcement Section

When the structure(s) or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
Transferee

\_\_\_\_\_  
Date

Enclosures

Copies Furnished: (w/o enclosures)

Ms. Christine Schwake (3)  
Iowa Department of Natural Resources  
Water Resources Section  
Wallace State Office Building  
502 East 9<sup>th</sup> Street  
Des Moines, Iowa 50319-0034

Mr. Larry J. Spellerberg, P.E.  
Calhoun-Burns and Associates, Inc.  
1500 30<sup>th</sup> Street  
West Des Moines, Iowa 50266

**COMPLETED WORK CERTIFICATION**

Permit Number: CEMVR-OD-P-2013-306-1  
Name of Permittee: Ottumwa, Iowa  
Project Purpose: bridge deck and pier repairs in the Des Moines River  
County/State: Wapello County, Iowa  
Date of Issuance: December 12, 2013

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Engineer District,  
Rock Island  
ATTN: Regulatory Branch  
Clock Tower Building  
Post Office Box 2004  
Rock Island, Illinois 61204-2004

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above reference permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

EW