

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: September 18, 2012  
Date of Addendum: August 23, 2012

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
004	20-0352-300-A	BRIDGE REPLACEMENT - STEEL GIRDER	CLARKE	BRFIMX-035-2(296)37--14-20 BRFIMX-035-2(300)39--14-20	18SEP004.A01

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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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Attached is a SCHEDULE OF PRICES for the following item:

Line No. 0901 2599-9999005 PLANNED RETAP

Bid this item as instructed and submit the bid for this item with the Bid Proposal.

Make the following change to the Proposal Special Provisions List and the Proposal Special Provisions Text.:

Add the attached Special Provision:

SP-090226 September 18, 2012

SPECIAL PROVISIONS FOR LRFD PILE DESIGN AND PLANNED RETAPS

The following is ESTIMATE REFERENCE INFORMATION for Item Code 2599-9999005:

SEE DESIGN SHEET 2 OF 15 FOR RETAP LOCATIONS AND SPECIAL PROVISION "LRFD PILE DESIGN AND PLANNED RETAPS" FOR ADDITIONAL INFORMATION.

Make the following change to plan sheet number 3:

Attach 'Pile Re-Tap Plan'.

Make the following change to plan sheet number 4:

The Pile lengths on the "Longitudinal Section Along Southbound Approach Roadway" are revised as follows:

S. Abut - No Change  
Pier No. 1 - 75' HP10x57 Steel Pile  
Pier No. 2 - 75' HP10x57 Steel Pile  
N. Abut - 85' HP10X57 Steel Pile

Note: The pile length quantity in the estimated quantities is correct.

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Proposal ID No.: 20-0352-300-A  
 Primary Work Type: BRIDGE REPLACEMENT - STEEL GIRDER  
 Primary County: CLARKE

Bid Order No.: 004  
 Letting Date: September 18, 2012  
 10:00 A.M.

ITEMS LISTED ON THIS PAGE ARE ADDED BY ADDENDUM 18SEP004.A01

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
Section 0006 (CONTINUED)						
DESIGN NO. 0211; A 260'-0 X 40'-0 ROLLED STEEL BEAM BRIDGE						
BRFIMX-035-2(300)39--14-20						
0901	2599-9999005 PLANNED RETAP	EACH 10.000				.
Total Bid			.			.



**SPECIAL PROVISIONS  
FOR  
LRFD PILE DESIGN AND PLANNED PILE RETAPS**

**Clarke County  
BRFIMX-035-2(300)39--14-20**

**Effective Date  
September 18, 2012**

**THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**090226.01 DESCRIPTION.**

This project uses the Load and Resistance Factor Design (LRFD) methodology for piling design. Planned pile retaps may be specified to investigate and verify set-up factors.

**090226.02 MATERIALS.**

For piling apply the requirements of Article 2501 of the Standard Specifications.

**090226.03 CONSTRUCTION REQUIREMENTS.**

**A. Pile Design Bearing Notes.**

The plan piling construction control values are required nominal axial bearing resistance based on the calibrated LRFD methodology. A WEAP analysis and bearing graph will be prepared by the Office of Construction that gives the relationship between blow count and nominal axial bearing resistance.

For bidding purposes, particularly the sizing of the pile driving hammer the previous design methodology (service load with a factor of safety) bearing values are given below. These values shall not be used for construction control and are only given for comparative purposes.

**South and North Abutment**

The design bearing for the South and North abutment piles is 47.5 tons.

**Pier #1 and Pier #2**

Pier piles are designed to accommodate the absence of scourable soils above the 100 year scour elevation shown in these plans. Piles shall be driven to 52.6 tons based on theoretical driving resistance. This includes 1.6 tons of resistance in the scourable layers, and 51.0 tons of resistance for dead and live load bearing capacity.

## **B. Planned Retaps.**

### **1. General.**

- (a) Piling that shall have planned retaps are designated in the plans.
- (b) The Contractor shall perform the specified pile retaps at the time period specified in the plans, 1 day, 3 days, or 7 days.
- (c) Piling specified for planned retaps will be logged by the Engineer.
- (d) Driving shall be stopped for piling specified for planned retaps when the pile reaches the required nominal axial bearing resistance at the End Of Drive (EOD). At the last planned retap for a respective pile the pile shall be driven to full penetration or refusal.
- (e) If the pile specified for a planned retap does not achieve the required nominal axial bearing resistance at the EOD a different pile in the same substructure unit will be selected by the Engineer for a planned retap(s). Battered piling shall not be selected for a planned retap.
- (f) If the pile specified for a planned retap reaches refusal during initial drive or reaches refusal during a planned retap subsequent retaps will not be performed. A different pile in the same substructure unit may be selected by the Engineer for a planned retap or the planned retap will be deleted from the contract.

### **2. Pile Acceptance.**

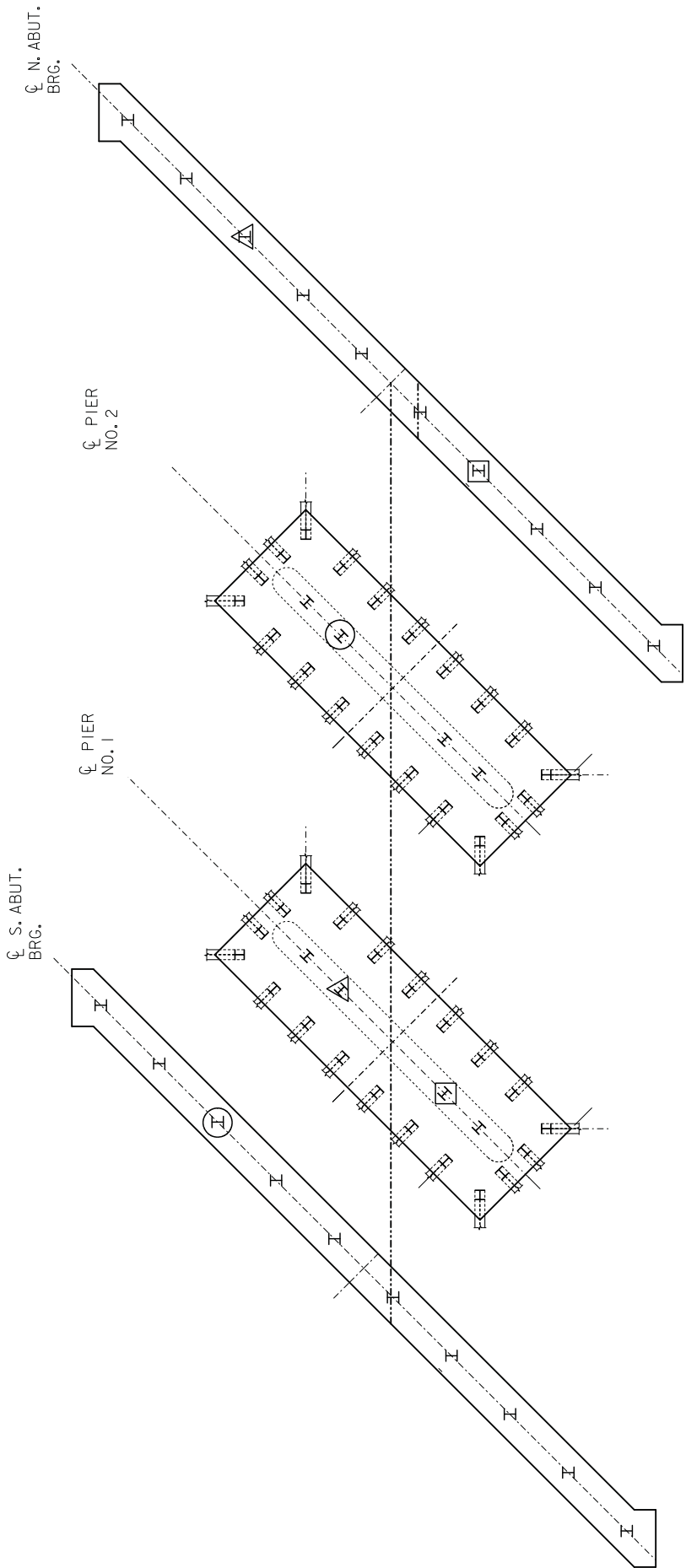
- a) Piling with planned retaps that achieve the required nominal axial bearing resistance at the EOD will be considered acceptable regardless of the results of the planned retaps.
- b) Piling that are not scheduled for planned retaps and do not reach the required nominal axial bearing resistance at the EOD shall have an elective retap or pile extension in accordance with Article 2501 of the Standard Specifications. No payment will be made for elective retaps.

#### **090226.04 METHOD OF MEASUREMENT.**

The Engineer will measure the number of planned retaps performed for each specified time period.

#### **090226.05 BASIS OF PAYMENT.**

Payment for Planned Retaps will be at the contract unit price for each Planned Retap. Payment is full compensation for specified work, including time necessary to wait to perform the Planned Retap.



PILE RE-TAP PLAN

- = 1 DAY RE-TAP ONLY
- = 1, 3, & 7 DAY RE-TAPS
- △ = 7 DAY RE-TAP ONLY