# 04-24-2015 LETTING ITEM 072

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# PROPOSED HIGHWAY PLANS

FAP 34 (IL ROUTE 97) SECTION (2) I-3 SCOUR COUNTERMEASURES MENARD COUNTY

C-96-005-15

SCOUR MITIGATION AT SN 065-0002, IL 97 OVER SANGAMON RIVER, N40.1238, W89.9844



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: K. FIELDS PROJECT MANAGER

CONTRACT NO. 72H34



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SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL
20300100	CHANNEL EXCAVATION	CU YD	2124
28,00207	STONE RIPRAP. CLASS A4	TON	1100
28100209	STONE RIPRAP, CLASS A5	TON	2211
28200200	FILTER FABRIC	SQ YD	1502
67100100	MOBILIZATION	L SUM	1
X7.010216	TRAFFIC CONTROL & PROTECTION (SPECIAL)	L SUM	1

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#### GENERAL NOTES

This section shall be constructed in accordance with the plans; the Standard Specifications for Road and Bridge Construction, Adopted January 1, 2012; the Supplemental Specifications and Recurring Special Provisions indicated on the checksheet; and the Special Provisions included in the proposal.

The work included in this project consists of scour mitigation, channel excavation and all other work necessary to complete this section.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to the construction or ordering of material. Such variations shall not be cause for additional compensation or a change in the scope of work. The Contractor will be paid for the quantity actually furnished at the unit price bld for the work.

The Contractor shall be responsible for protecting utility property from construction operation as outlined in Article 107.31 of the Standard Specifications. The J.U.L.I.E. number is 800-892-0123. A minimum of 96 hours advance notice is requested.

#### G.N. - 281

The riprop gradation shall be in accordance with the gradation specified in the plans, or, with approval of the Engineer, a riprap gradation meeting a D50 greater than or equal to 0.8 feet for A4 & 1.1 feet for A5. D50 is defined as the mean rock size as described in the FHWA Hydraulic Engineering Circulars (HEC 11, HEC 14, AND HEC 15).

If gravel is used for the bedding material under riprap, the gravel shall be crushed as allowed under Article 1005.01.

The cost of bedding material will not be paid for separately but should be included in the cost of riprap.

Any disturbances to ditches, slopes or other areas within the work area shall be regraded and reseeded at the Contractor's expense at the completion of the contract.

#### INDEX OF SHEETS

Cover Sheet

Summary of Quantities, Highway Standards, General Notes & Index of Sheets 2

3-5 Scour Mitigation Plan Sheets

#### LIST OF HIGHWAY STANDARDS

000001-05	Standard Symbols, Abbreviations and Path
001006	Decimal of an Inch and of a Foot
701301-04	Lane Closure, 2L, 2W, Short Time Opera
701901-03	Traffic Control Devices

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6
EXAMINED <u>AVSUST 22<sup>Nd</sup> 20</u> <u>Alm CW lyangun</u> ENGINEER OF OPERA
EXAMINED August 6 2014 Ron uchanben ENGINEER OF PROJECT IMPLEMENTA
EXAMINED August 6 20 14

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FILE NAME *	USER NAME 2	DESIGNED -	REVISED		SUMMARY OF QUANTITIES, HIGHWAY STANDARDS,	F.A.P. SECTION	COUNTY TOTAL SHEET
		CHECKED -	REVISED	STATE OF ILLINOIS		34 (2) 1-3	MENARD 5 2
PLOT SCALE *		DRAWN ~	REVISED	DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & INDEX OF SHEETS	h	CONTRACT NO 72H34
	PLOT DATE +	CHECKED -	REVISED		SHEET NO. 2 OF 5	ILLINOIS FED. A	ID PROJECT

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## FAP 34 (IL 97) OVER SANGAMON RIVER MENARD COUNTY STRUCTURE NO. 065-0002



	FILE NAME =	USER NAME =	DESIGNED -	REVISED			F.A.P. RTF.	SECTION	COUNTY S	TOTAL	SHEET NO.
			CHECKED -	REVISED	STATE OF ILLINOIS	SN 065-0002 PLAN & ELEVATION	34	(2) I-3	MENARD		
		PLOT SCALE =	DRAWN -	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT		2H34
PLOT DATE = CHECKED -		CHECKED -	REVISED		SHEET NO. 3 OF 5 SHEETS		ILLINOIS FED.	AID PROJECT			





#### SECTION E-E AT SE WINGWALL

Note: Excavate eroded area down to firm soil and to a slope that will provide a stable base for riprap. Excavated material may include concrete, brick, block and other loose materials as may be encountered. Set top of riprap to match into existing grade as directed by the Engineer. Depth/thickness of riprap varies with ground conditions.

## TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CHANNEL EXCAVATION	CU YD	2124
STONE RIPRAP, CLASS A4	TON	1100
STONE RIPRAP, CLASS A5	TON	2211
FILTER FABRIC	SQ YD	1502

FILE NAME =	USER NAME =	DESIGNED -	REVISED			F.A.P.	SECTION	COUNTY TOTAL SHEET
		CHECKED -	REVISED	STATE OF ILLINOIS	RIPRAP DETAILS	34	(2) I-3	MENARD
	PLOT SCALE =	DRAWN -	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 72H34
	PLOT DATE =	CHECKED -	REVISED		SHEET NO. 5 OF 5 SHEETS		ILLINOIS FED. A	NID PROJECT

Notes:

- (1) The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- (2) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening.
- (3) Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Channel Excavation.
- Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Filling of scour holes may be required.
- (5) At the abutment face, the filter fabric shall not be lower than the top of footing.
- (6) Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer. Cost to be included as Channel Excavation.
- O Channel Excavation shall include the cost of removing and disposing of existing riprap, concrete, brick, block, rubble, or other material as encountered.
- (8) Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
- (9) Vertical clearance from groundline to bottom of superstructure varies between 10 and 12 feet for Bents 2-6. Actual conditions may vary.
- O Estimated quantities. Actual quantities to be determined in the field.
- (1) Under no circumstances are the bridge pier footings to be uncovered. If pier footings are encountered during excavation, riprap thickness will be as required above footing as required to match into the existing streambed profile and as directed by the Engineer.
- ② Set top of Stone Riprap such that it approximately matches the existing grade around Bents 2-6. Filling of scour holes may be required.

# <u>RIPRAP DETAILS</u>

FAP 34 (IL 97) OVER SANGAMON RIVER

MENARD COUNTY STRUCTURE NO. 065-0002