



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

October 22, 2015

SUBJECT: FAP Route 698 (IL 89)
Project ACF-0698(037)
Section (1)BR
Bureau and Putnam Counties
Contract No. 66A69
Item No. 20, November 6, 2015 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised sheets 203-205 and 238 of the Plans
2. Revised pages 1, 327 and 330 of the Roadway Geotechnical Report
3. Added pages 333-335 to the Roadway Geotechnical Report

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

John D. Baranzelli, P.E.
Acting Engineer of Design and Environment

A handwritten signature in cursive script, reading "Ted B. Walschleger P.E." with a small "P.E." to the right.

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: Paul A. Loete, Region 2, District 3; Catherine Batey; Tim Kell; D. Carl Puzey; Estimates

JW/kf

REVISED AUGUST 24, 2015 LIST OF REVISIONS:

PAGE 1: UPDATED COVER SHEET WITH NEW DATE AND LIST OF REVISIONS.

PAGE 214: ADDED TABLE 6B TO ATTACHMENT A OF APPENDIX O.

PAGE 268: ADDED TABLE 6B TO ATTACHMENT A OF APPENDIX P.

PAGE 315-319: ADDED REVISED SPECIAL PROVISION FOR WICK DRAINS.

PAGE 330-332: ADDED REVISED SPECIAL PROVISION FOR SURCHARGE.

REVISED OCTOBER 13, 2015 LIST OF REVISIONS:

PAGE 1: UPDATED COVER SHEET WITH NEW DATE AND LIST OF REVISIONS.

PAGE 333-335: ADDED REVISED SPECIAL PROVISION FOR SURCHARGE.

ROADWAY GEOTECHNICAL REPORT

ILLINOIS 89 OVER THE ILLINOIS RIVER

FAP 698 (IL 89)

Section (1) BR

P-93-013-11

D-93-063-14

C-93-027-11

Contract 66A69

Bureau and Putnam Counties



**Illinois Department
of Transportation**

Region 2, District 3

Prepared by:

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District 3 Geotechnical Engineer

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May 8, 2015

SURCHARGE
Revised 5-7-15

THIS SPECIFICATION HAS BEEN UPDATED. THE VERSION DATED 10-13-2015 IS THE FINAL VERSION.

Description. This work shall consist of placing a surcharge on top of the proposed embankment prior to abutment and pavement construction according to the details and dimensions shown on the plans, this specification, and as directed by the Engineer. A summary of the surcharge is presented in the following table.

Location (length)	Treatment Width	Surcharge Pressure ⁽¹⁾	Estimated Surcharge Duration After Construction, t_{90} (days)
Sta. 148+00 to Back of Proposed North Bridge Abutment	Entire top width of the Stage 1b fill.	800 psf	(Need to fill in t_{90} times. Depends on wick drain spacing)
Back of Proposed South Bridge Abutment to Sta. 168+50	Entire top width of the Stage 1b fill.	1050 psf	(Need to fill in t_{90} times. Depends on wick drain spacing)
Sta. 168+50 to Sta. 170+00	Entire top width of the Stage 1b fill.	Decrease uniformly from 1050 psf at Sta. 168+50 to 350 psf at Sta. 170+00	(Need to fill in t_{90} times. Depends on wick drain spacing)
Note 1: Surcharge shall be placed prior to construction of subgrade, subbase, and pavement.			

The estimated primary settlement is shown in the following table.

Location of Analyses and Assumptions	Sta. 148+50, 10 ft. LT (inches)	Sta. 167+50, 12 ft. LT (inches)
Stage 1a: Fill to match height of existing embankment	13.6	3.8
Stage 1b: Additional fill over Stage 1a fill with assumed temporary MSE wall at 20 ft. RT.	5.6	5.9
Stage 1b (surcharge): surcharge.	1.5	2.4
Total for Stage 1a, 1b, and 1b (surcharge):	20.7	12.1

THE SPECIAL PROVISION FOR SURCHARGE (REVISED 6-10-2015) WAS ADDED TO THIS REPORT ON 8-24-2015.

SURCHARGE
Revised 6-10-2015

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Location (length)	Treatment Width	Surcharge Pressure⁽¹⁾	Minimum Surcharge Duration⁽²⁾ (days)
Sta. 148+00 to Back of Proposed North Bridge Abutment	Entire top width of the Stage 1b fill.	800 psf	107
Back of Proposed South Bridge Abutment to Sta. 168+50	Entire top width of the Stage 1b fill.	1050 psf	154
Sta. 168+50 to Sta. 170+00	Entire top width of the Stage 1b fill.	Decrease uniformly from 1050 psf at Sta. 168+50 to 350 psf at Sta. 170+00	154

Note 1: Surcharge shall be placed prior to construction of subgrade, subbase, and pavement.

Note 2: Surcharge duration is based on wick drains with a 7.5 foot triangular spacing pattern. The duration will be adjusted by the Engineer in the event that a different wick drain configuration is used.

The estimated primary settlement is shown in the following table.

Location of Analyses and Assumptions	Sta. 148+50, 10 ft. LT (inches)	Sta. 167+50, 12 ft. LT (inches)
Stage 1a: Fill to match height of existing embankment	13.6	3.8
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SURCHARGE

Revised 10-13-2015

**THE SPECIAL PROVISION FOR SURCHARGE (REVISED 10-13-2015)
WAS ADDED TO THIS REPORT ON 10-13-2015.**

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Total for Stage 1a, 1b, and 1b (surcharge):	20.7	12.1

Submittals. A detailed surcharge plan shall be submitted to the Engineer for review and approval no later than 30 days prior to surcharge construction and shall include each of the following items:

- (1) The material to be used for the surcharge.
- (2) The unit weight of the material to be used for the surcharge. If a material requiring densification during placement is selected, compaction criteria needed to achieve the unit weight shall be included.
- (3) Drawings showing the placement of the surcharge material include plan, profile, and typical section views.
- (4) Method of placing the surcharge material.
- (5) Method of quality control to ensure the required surcharge pressure is achieved, if necessary.
- (6) Removal and disposal plan for the surcharge material.

Materials. Materials shall be any material approved by the Engineer that uniformly applies the required surcharge pressure over the surcharge area shown on the plans.

Design Criteria. The surcharge configuration shall meet the minimum specified surcharge pressure over the specified locations and shall be stable during the surcharge period as well as during the placement and removal operations.

Construction. The surcharge material shall be placed as shown on the Contractor's surcharge plan. The rate of placement of the surcharge material shall be time-phased based on the settlement plate, slope inclinometer, and piezometer readings to maintain slope stability and a minimum factor of safety. If any signs of slope instability are observed during placement of the surcharge, they shall be immediately reported to the Engineer and all surcharge placement shall be halted. Surcharge placement may be resumed upon the approval of the Engineer. The Contractor shall remove previously placed surcharge material to the limits directed by the Engineer, when necessary to achieve stability of the embankment.

The surcharge shall at no time exceed the specified pressure without prior approval of the Engineer. The Contractor shall not stockpile material or place excess load on top of the embankment.

The surcharge shall remain in place until the Minimum Surcharge Duration has elapsed and the estimated remaining settlement is a maximum of 0.4 inch.

No portion of the surcharge shall be removed until permission is given by the Engineer. The surcharge material shall be removed and disposed of as shown on the Contractor's surcharge plan. Piling for the bridge abutments and the pavement subgrade shall not be constructed until after the surcharge is removed.

Method of Measurement. This work will be measured for payment and the area computed in square yards (square meters) of surface area covered by the surcharge. Surcharge placed outside the designated limits as shown on the plans or as directed by the Engineer will not be measured for payment.

Basis of Payment. This work will be paid for at the contract unit price per square yard (square meter) for SURCHARGE.