

Scott Mackiewicz

From: Stanley, Robert [DOT]
Sent: Thursday, February 09, 2012 9:48 AM
To: Bierwagen, Dean [DOT]; Skogerboe, Dave [DOT]
Cc: Frame, Kyle [DOT]; Serio, Melissa [DOT]; Tymkowicz, Shane [DOT]; Bishop, Darwin [DOT]; Nicholson, Kent [DOT]; Ohman, Daniel [DOT]; Schappaugh, Ronald [DOT]; Megivern, Stephen [DOT]; Trainum, Matthew [DOT]; Marler, Scott [DOT]
Subject: Completion Of S3 And S4 Work, Sioux Co, IA 12, Bridge Over Six Mile Creek, Design 213, BRFN-012-3(6)--38-84

Soils Design has completed both the S3 work and the S4 work for the above-noted bridge-replacement project. The S4 is being turned in to Dean Bierwagen, and the S3 is being turned in to Dave Skogerboe, for their respective uses. The LINKS included below will allow others to access both the S3 and the S4 information as needed.

The S4 is thought to be self-explanatory, with no significant geotechnical problems. However, if anyone has any questions, if anything additional is needed, etc, please let me know.

The **S3 SUMMARY** below, prepared by Ron Schappaugh, outlines all S3 items, and is also thought to be self-explanatory. Again, if there are any questions, if anything additional is needed, etc, please let me know.

Matthew, please clear both the S3 and S4 date for this project. Thank you to all.

LINK TO S4 ITEMS: <W:\Projects\8401201005\Soils\S4Submittal>

**Sioux County
IA 12 Over Six Mile Creek
S3 Summary (Feb. 2012)
BRFN-012-3(6)--38-84**

Project Extent

STA. 412+30.11 to +417.32, Pave, Bridge Approach, and Bridge Replacement

Index of Sheets and Documents

C.x ---- Soils Tabs and Bob's Signature Box

Soils Design requests that when the correct C-sheet number for our C-sheet has been determined, that the Design squad notify Soils Design so we can update the Soils C-sheet with the number and Bob's signature, and then create a final PDF.

When finalized, the PDF of the C Sheet will be located at:

<W:\Projects\8401201005\Soils\S3Submittal>

Cross sections file (XS_ML024.sol) is located at:

<W:\Projects\8401201005\Soils>

Sliver Fill Note

(A note has been placed on C.?) Special attention should be given to Section 2107.03.C, Standard Specification Series of 2009, on this project. (Soils Design requests that this note be added as a Bid Tab note to Class 10 excavation.)

Topsoil

The Topsoil Replacement Policy applies. An arbitrary twelve (12) inches of Topsoil or topsoil-like material has been drawn on all cross sections in the natural areas and on existing embankment slopes. Soils Design recommends that this 12 inches of surface material (topsoil, fill, etc.) be stripped from the entire construction area, stockpiled, and used for subsequent retopsoiling purposes.

Cross-Sections

All standard soils items and designs are included on the cross-sections.

Borrow

The D5 letter states, “A contractor furnished borrow will be used.” Soils Design assumes this is still the case. Please notify us if this has changed.

Subgrade Treatment

For any new pavement beyond the new bridge approach section, which we understand will be only north of the bridge, Soils Design recommends a 12-inch thick “common layer” of Modified Subbase be used in conjunction with Pavement Design, to be shown on the paving typical (no treatment tab).

Shrinkage Tab (with Boulder estimate)

Topsoil -- 40%

Remaining Project Cut -- 30%

Boulder Estimate -- 10 CY

Longitudinal Subdrain Tab

Two Longitudinal Subdrains and associated outlets are needed for the new pavement, which we understand will be only north of the bridge .

Other Items

The S4 submittal for the bridge is being submitted to OBS at this time.