

**Bennett, Kyle [DOT]**

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**From:** Stanley, Robert [DOT]  
**Sent:** Tuesday, November 29, 2011 12:40 PM  
**To:** Flattery, Paul [DOT]; Brown, Timothy [DOT]  
**Cc:** Bennett, Kyle [DOT]; Trainum, Matthew [DOT]; Megivern, Stephen [DOT]; Nicholson, Kent [DOT]; Ohman, Daniel [DOT]; Serio, Melissa [DOT]; Nelson, James S [DOT]; Bierwagen, Dean [DOT]; Tymkowicz, Shane [DOT]; Bishop, Darwin [DOT]; Babcock, Tony [DOT]  
**Subject:** Completion of S3 Work, Sac Co, IA 196/Co Rd N-14, From Just North of Existing US 20 North to Reloc US 20, STP-196-1(13)--2C-81

Soils Design has completed our S3 work for the above-referenced Sac Co IA 196 grading project, and we are turning our S3 package in to the Rural 3 Section for their incorporation into the Methods Review Plans, and ultimately into the final plans. The link below will allow others to access the S3 submittal for their information, use, etc as needed. Kyle Bennett prepared the **S3 SUMMARY** below, and it is thought to be self-explanatory. However, there are a few items to discuss herein, as follows.

- As instructed, Soils Design has prepared this S3 submittal with three borrows that could be used for this grading project. See Sheets R.1 and R.3 and R.5 in the link below for Borrow "A", Borrow "U", and Borrow "V", and please read the note on the left side of both Sheets R.3 and R.5. Borrow "U" and Borrow "V" are current borrows that were used and/or (as we understand it) are still being used for the US 20 mainline work by current contractor(s). Soils Design proposes that we include only these 2 existing borrows in the final plans, and leave Borrow "A" undisturbed and out of the final plans. We envision Borrow "V" being the "primary borrow" for this (13) grading project, with Borrow "U" being the "secondary borrow" for the project, and Borrow "A" not being used. Together, Borrow "U" and Borrow "V" are currently designed for 369,000 CY, which is more than sufficient for the currently-estimated borrow need of 282,000 CY. It is hoped that during the Methods Review period, everyone can agree to use only Borrows "U" and "V", and that Borrow "A" can be removed from the final plans before Contracts Turn-In. Soils Design requests input, recommendation, etc from all as soon as possible. If District and others concur with this proposal, Borrow "A" will not be needed, and ROW acquisition of this parcel can be terminated, if it has not already been acquired.
- Soils Design still needs to coordinate with the Rural 3 Section on the final borrow need in order to complete the Quantity Boxes and other portions on the R sheets.
- Note that once the Soils Design "C" sheet numbers have been determined, the sheets will need to be finalized, and the first "C" sheet will need to be signed.
- We ask that District verify their desire to use DS-09050 for the Moisture Control that Soils Design has recommended.

If there are any questions on anything, if any additional items are needed from Soils Design, etc, please let us know. Matthew, please clear our S3 date for this grading project. Thank you to everyone.

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**SAC COUNTY  
IA 196/CO. RD N-14, FROM JUST NORTH OF EXISTING  
US 20 NORTH TO RELOCATED US 20  
STP-196-1(13)—2C-81  
S3 SUMMARY, NOVEMBER 2011**

**Project Extent**

IA 196 1088+40 – 1212+47.81

IA 196 and Ramp connections at relocated US 20.

**Index of Sheets, Tabs, and Documents**

C.? - C.?	Soils Tabs and Signature Box
Q.1	Soils Legend Sheet
Q.2-Q.6	IA 196 Plan and Profile Sheets
Q.7-Q.9	Ramp Plan and Profile Sheets
R.1-R.6	Borrow Plan and Profile Sheets
Z.1-Z.9	Borrow Cross-Section Sheets
610011	Summary of Structure Settlements

PDF's are located at: <W:\Projects\8119601007\Soils\S3Submittal>

**Borrow**

There are 3 borrows for this project. Borrow "A" is located approximately 1 mile north of the proposed IA 196/US 20 interchange near Sta. 1250. Borrow "U" is located along US 20 near Sta.1030, and Borrow "V" is located along US 20 near Sta. 1095. Select material is available from all three borrows for subgrade treatment, but the bulk of this material is located within Borrow "U" and Borrow "V".

**Subgrade Treatment**

Treatment will be 2.0 feet thick Standard Width with Select Material. Select material is available from Borrow "A", Borrow "U", and/or Borrow "V".

**Moisture Control**

Soils Design recommends 100% Moisture Control, and we request input from District 3 on whether they want to use DS-09050.

**Shrinkage**

25% shrink for everything except topsoil  
40% shrink for all topsoil  
Boulders: 150 CY

**Longitudinal Subdrains**

Tabs for the Longitudinal Subdrains are provided.

**Cross-Sections**

Soil layer lines and normal Soils Design items are complete.

**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 12 inches of surface material (topsoil, fill, etc.) be stripped from the entire construction area, stockpiled, and used for subsequent retopsoiling purposes.

**Plowing and Shaping (See Q Sheets and Tab 107-31)**

Sta. 1172+00 to 1197+75	ML 196
Sta. 1198+25 to 1207+00	ML 196

**Summary of Structure Settlement**

Copy provided to OBS via this e-mail

**Other Items**

The S4 submittals for the Bridge and RCB's have already been turned in to OBS.