

## MINUTES

### SCDOT – PCI Joint Committee Meeting

SCDOT Headquarters Building, Room 331  
May 2, 2019 – 1:30 PM

Terry Koon welcomed attendees and began the meeting at 1:30 PM. He thanked the RPGs that were present for coming to the meeting.

Attendees introduced themselves and a sign-in sheet was circulated.  
The following were present:

#### SCDOT

Terry Koon	Structural Design Support, Co-Chair
Hongfen Li	Structural Design Support
Stephen McCrae	Structural Design Support
Ani Carrigan	Structural Design Support
Mabel Cuellar	Geotech Support
Aly Hussein	Office of Materials and Research
Josh Quattlebaum	Construction
Lalith Galegedera	RPG-1
Beverly Hollowell	RPG-1
Minlin Wu	RPG-1
Jim Privette	RPG-2
Tong Li	RPG-3
Glenn Patterson	RPG-4

#### G/C PCI

Peter Finsen	Georgia/Carolinas PCI
Reid Castrodale	Castrodale Engineering Consultants, Co-Chair
Gary Shrieves	Coastal Precast Systems
Richard Potts	Standard Concrete Products
J. R. Parimuha	Florence Concrete Products
Mark Perkins	Florence Concrete Products

#### Academia

Fabio Matta	Univ. of SC
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#### FHWA

### Minutes of Last Meeting

Two revisions were noted on the minutes of the November 29, 2018, meeting.

For Item 17-3, the second sentence was revised to read: Jeff White indicated that NCDOT has surveyed all form manufacturers and had established the standard clip size and spacing to be conservative as 10 ga. @ 12 in. o.c.

For Item 17-4, the last sentence was revised to read: Exterior girders are typically painted if they are placed in a bridge over traffic.

The minutes were approved as revised. Minutes and agendas, along with supporting information, are posted on the G/C PCI website.

## **Old Business**

### **01-6 SCDOT Bridge Design Manual**

Terry Koon reported that progress was being made on engaging a consultant to revise the Bridge Design Manual, although the work will not begin until well into the next fiscal year. Hongfen will be sending out memos with revisions to the existing manual as needed. G/C PCI should send any proposed revisions to the manual to Terry. The Department is also planning to update the standard girder sheets.

### **09-1 Accelerated Bridge Construction Projects**

Terry Koon reported that they are still waiting for the final report on the Hanging Rock Creek Bridge. It was noted that the Carolina Crossroads project is encouraging ABC technologies, but they will have to be appropriate for seismic locations. ABC may be included in the new Bridge Design Manual.

### **12-1 Tentative Letting List**

It was noted that only projects from RGP-4 had additional information about the bridges. Others will be encouraged to include the additional information.

### **12-2 Shop Drawings**

#### **Electronic Shop Drawings**

There has been no further progress on this topic since the last meeting. RPGs are allowing electronic submittals, but the process is not yet standardized. Electronic submittals are faster, so they will continue to pursue development of standard procedures.

Glenn Patterson from the Upstate RPG indicated that they are using ProjectWise and it is going well. They hope to implement automatic notification of submittals.

### **16-2 UA Bars in BTs**

Terry Koon indicated that he likes the WSDOT detail that uses strands. Reid Castrodale prepared some calculations on using strands to provide the positive moment reinforcement in continuity diaphragms. He agreed to forward these to Hongfen Li and to also forward information collected on WSDOT details.

Details of the bearing plate and stud arrangement were discussed since the studs on the bearing plate conflict with UA bars in current detail.

### **17-1 Debonded Strands**

#### **Debonding in Bottom Row**

Dr. Brandon Ross at Clemson is conducting research on debonding, but his research is not yet completed. Terry Koon is waiting to see the results of this research.

Richard Potts suggested that other states be asked if they disallow debonding in the bottom row. He is not aware of any others that disallow debonding of the bottom row.

#### **Full Length Debonding**

JR Parimuha showed an example from NCDOT standards where full-length debonding is allowed.

### **17-2 Prestress Design Seminar**

The date is set for the SCDOT Prestress Design Seminar – Oct. 1, 2019. It will be followed by a similar seminar for GDOT on Oct. 3, 2019. A venue has yet to be selected. Alan Matienzo will be the SCDOT contact for logistics of the seminar.

Terry Koon asked that the agenda be sent to him and Hongfen Li so it can be approved. He also would like to see a plant tour associated with the seminar as had been done for NCDOT.

### **17-3 Standard SIP Form Clip Insert Details**

Terry Koon reported no progress on this item. Jeff White had sent Terry information on the NCDOT specifications. Terry indicated that he would try to move this issue forward after checking with the Construction and Materials offices. They would then develop a special provision.

### **17-4 Rubbing Prestressed Concrete Girders**

Aly Hussein indicated that exterior girders are typically painted. Richard Potts described the GDOT methods that were successful in filling bug holes. The SCDOT Standard Specifications needed to be reviewed to see if it requires revision for this approach.

### **17-5 Low Volume Roads Bridge Criteria**

While this item had been dropped from the agenda, Terry Koon indicated that the criteria have been expanded to allow for longer span bridges which could be used to eliminate bents. The criteria are awaiting final approvals.

## **New Business**

### **Precast Pavements**

There was some discussion of precast pavements. It was acknowledged that we needed to talk to a different group to promote the concept. The main contact would be Jay Thompson in Pavement Design within OMR. Aly agreed to send his contact info.

## **Informational Items**

### **SCDOT Preconstruction Updates**

Terry Koon reported on a project that was coming to replace the Arcadia Lakes spillway bridge from the 2015 floods. It uses short cored slab units that are chorded on the curve. It will be let using expedited procedures.

### **PCI Convention and National Bridge Conference**

The next PCI Convention and The Precast Show will be in Louisville, KY, from Feb. 28 to March 2, 2019. However, the National Bridge Conference will be held with the PCI Committee Days to be held in Rosemont, IL on Sept. 25-28, 2019. Since technical papers on bridges will be presented at the National Bridge Conference, G/C PCI is offering to support four SCDOT representatives to attend this meeting.

### **Research**

No report. Terry Koon indicated that he was making a point of inviting researchers to these joint committee meetings.

### **Next Meetings**

The next joint meeting is scheduled for Monday, September 30, 2019, at 1:30 p.m., the day before the Prestressed Concrete Bridge Design Seminar.

The next G/C PCEF Committee meeting is scheduled for Thursday, February 6, 2020, in Atlanta, GA.

The meeting was adjourned at 3:50 P.M.

### **Action Items**

- Reid Castrodale agreed to forward to SCDOT some examples for details and calculations for using strands for the continuity detail.
- Aly Hussein agreed to send contact info for OMR Pavement Design lead to G/C PCI.
- Terry Koon agreed to work toward standard SIP steel form clip size and spacing.