

**Meeting Minutes**

**ACEC/NC TRANSPORTATION COMMITTEE**  
**MEETING**

***Monday, August 27, 2018 at 3:00 PM***  
***Arena Club West, PNC Arena***  
***Raleigh, North Carolina***

**Attendees:**

- See Attached Sign-In Sheet from August 27, 2018 Meeting

**Welcome and Opening Remarks:**

- Jason Peterson opened the meeting
- A “Thank You” was sent out to the meeting sponsors – HDR, Moffatt & Nichol, and ms consultants

**Speaker – Greg Burns, PE, Division Engineer Topic – Project Delivery-Division Perspective**

- Notice to Proceed
  - Planning Document and Utility Coordination in Task 1 (cost plus)
  - Task 2 includes design, right of way and let plans (lump sum)
  - Survey tasks typically done with in-house forces or Location LSC firms
  - Majority of projects are turn-key
  - Bridge projects are scoped under one task
  - NTP was averaging 242 days after scoping. The current average is 60-90 days. The goal is 30 days.
  - Review times of estimates are improved because of implementation of standard scopes of work and more experience in preparing in-house estimates.
- Planning
  - The Division is pre-screening all projects as CE’s which allows for more flexibility in project development
  - Lidar is utilized for preparation of functional design
  - Challenge to get cultural resources surveys in a timely manner
  - Goals for document completion: CE – 12 months, EA/FONSI – 24 months, and EIS – 36 months
  - The Division is committed to early communication with FHWA and resource agencies
  - Do not over document projects. Division 6 is in the business of delivering projects not planning documents.
  - The planning process includes early utility coordination
  - The Division still uses the Public Involvement group in Raleigh
- Utility Design and Coordination
  - Utility Coordination begins at planning and goes through conflict resolution
  - Utility Design and UbO plans are typically included in task 2. The Division requires persistent efforts through the life of the project until all conflicts are resolved.

- Coordination typically begins at 30% hydro design
- Right of Way
  - Early coordination with utility owners helps set the PUE's
  - Phased approach for right of way acquisition included advanced acquisition for total takes and relocations. For state funded projects this is possible prior to the completion of the document and after the public meeting
  - Getting appraisals done in a timely manner has been a challenge.
- Design
  - Turnkey with three submittals: 25%, 75% and 100%
  - Design is done simultaneously with the document preparation
  - Division looking for flexibility and innovation
- Let
  - Firm provides the quantities
  - Firm prepares the contract documents based on template provided by the Division
  - Division lets are the 1<sup>st</sup> and 3<sup>rd</sup> Wednesdays of each month
  - Division let projects are limited to \$5 M.
- LSA/GEC
  - Firms are used as extension of Division staff and PM's
  - Firms are performing manhour estimates, design reviews, drainage studies, signal designs, and other traffic functions.
  - The Division wants the firm to take ownership of their projects. Firms should recommend a solution when asking questions.
  - Each project has an opportunity for schedule acceleration.

### **Subcommittee Reports – Reports Attached**

#### **Procurement – Mark Acuff**

- This subcommittee to meet on an as-needed basis
- No update currently

#### **Design/Build – Scott Boyles**

- Last meeting occurred on August 7th .....see meeting minutes attached for detailed discussions of topics
- Major topics discussed at August 7th meeting included:
  - NCDOT / NCTA Items
    - Exclusions for SPOT Work (Jim Dunlop presented)
    - Fuel Price Adjustment (Lamar Sylvester presented)
    - Summary Sheets (Teresa presented)
    - ATC Submittals (Teresa presented)
    - NCTA Updates (Rodger presented)
  - Upcoming Design-Build Projects (See latest list attached to these minutes)
  - Carolinas AGC Items
    - Legislative Update (Berry Jenkins presented)

- Revisit allowing price proposal to be submitted on day of opening and not with technical proposal. (Berry Jenkins and AGC presented)
- ACEC Items
  - Construction Manager General Contractor (CMGC) Update (Lamar Sylvester & Berry Jenkins presented)
  - Track Changes to RFP and Final Update on R-2828 (Roger presented)
  - Track changes to RFP draft and final submittals
  - RFP language regarding culvert replacements
- Open Discussion / Ongoing Items (Committee)
  - Stipend Task Force Update from May 1 meeting (Scott Boyles presented)
  - Extra Credit beyond Warranties Update from May 1 meeting (Scott Boyles presented)
- Other Topics
  - Industry Resource Discussion (Berry Jenkins)
  - Design Build Format for Request for Payment to resident engineer (Michael Taylor)
  - CPM Schedules (Lamar Sylvester)
  - Do Better Questionnaire (Chuck Gallant)

### **Project Delivery – Tom Goodwin**

- Last meeting occurred on August 2<sup>nd</sup> ....see meeting minutes attached for detailed discussions of topics
- Major topics discussed at August 2<sup>nd</sup> meeting included:
  - Legislative Agenda/Chief Engineer's Comments – Tim Little and Ron Hancock
    - Mark Gibbs – New Div. 13 Division Engineer
    - Build NC Infrastructure Bond
    - Secretary's Vision
    - Year-to-date they have spent \$400M on P&E
    - The cash balance keeps reducing
    - Spending more money through Maintenance
    - The \$147 Million Infrastructure Grant was recently awarded
    - Looking at advertising for Express Design Build On-Call Services
    - Construction Management General Contractor (CMGC)
  - "Master Plan: Update & Regional LSC/GESC's - Robert Stroup
    - Western Divisions On-Call
    - Eastern Divisions On-Call
    - PDEA / Roadway On-Call
    - Current contracts may be extended
    - Contracts for the Western Divisions are directly with the Divisions
  - Technical Services Update – Chris Werner
    - BUILD Transportation Grants (Former TIGER Grant)
    - New business model being worked on
    - GESC type Agreement to assist the Project Management, NEPA/SEPA, and Roadway Design Units
    - Policies and procedures review
    - Central meeting with Divisions

- Working to shrink the Project Development process
- Developing Scoping Reports
- GIS available information to use
- Looking for 2 PMU team leads
- Consultant Evaluation Process – Brenda Moore
  - Process
  - Timeline
  - Goals
- Open Roads Software – Bryan Edwards
  - Migration to Open Roads
  - Projectwise document management system
  - Blue Beam markup/review tool
  - Possible NCDOT and PEF training
- Project Delivery Through Construction – Brandon Jones
  - Keeping PEF’s engaged during construction
- Division Training – Update – Jon Nance
  - Terry Canales will replace Jon Nance and Donna Keener with the training
  - Webinars
- Division Comments and Open Discussion
  - SPOT office invites to future meetings
  - STIP update - scoring
- Industry Comments (PEF’s thoughts reflected)
  - Assignment of new projects on Western On-Call
  - “Shelf-Ready” projects and design

**Construction & Materials – Jeff Thatcher**

- Last meeting occurred on July 18<sup>th</sup> ..see meeting minutes attached for detailed discussions of topics
- Major topics discussed at July 18<sup>th</sup> meeting included:
  - Subcommittee Business
    - Review and approval of previous minutes
    - New subcommittee ACEC committee members
  - Training
  - Discussion Items
    - Nuclear Gauges
    - Specifications for New Digital Thermometer
    - New Trainee Program
    - Invoice Cover Sheet
    - Adjustments to Vehicle Mileage Rates
    - Safety Training
    - Billable Hourly Rates
    - CEI Guidelines
    - Upcoming Projects

### **Structures – Josh Taylor**

- Last meeting occurred on August 6<sup>th</sup> ..see meeting minutes attached for detailed discussions of topics
- Major topics discussed at August 6<sup>th</sup> meeting included:
  - Previous minutes reviewed and approved
  - Bridge Design Workshop Series – Kevin Fischer
    - Temporary Bridges Workshop
    - Bridge Inspection Manual Development
    - Bonner Bridge Design Workshop
    - NCDOT Bridge Aesthetics Workshop
    - Deck Closure Pour Workshop – Update
    - February of 2019 potential date for next Workshop
- Training Opportunities
  - Strutt and Tie Model Training - Review
  - PCI Conference Set
  - Planning for 2019 Steel Bridge Forum
- Anticipated PEF Opportunities
  - 40 Turn-Key Bridges...Program Year 5 (2022) prescreened and scoped
  - 92 additional in prescreening process for scoping
  - 19 additional to be prescreened, scoped and awarded through Federal Grant
  - Project Management Teams management of I, R, & U turn-key bridge projects
  - NCDOT needs of PEF's
  - Coordination with PEF's
- Technical Discussion
  - Inspection and Repair Manuals - Update
  - Revisions to Chapters 9, 10 and 11 of the Structure Design Manual
  - Five new policy memos
- General Discussion
  - Use of buildups on precast piles in the splash zone
  - Potential outcome of the upcoming crash testing of two-bar metal rails
- New ACEC Committee Members

### **Joint Conference – Craig Hyman**

- This Year's conference is scheduled for September 17<sup>th</sup> and 18<sup>th</sup> at the Convention Center (subsequently reschedule to December 19<sup>th</sup> and 20<sup>th</sup> due to storm)
- This Year's registration is filled but there is a wait list
- Schedule of Events will include an evening networking event on the 17<sup>th</sup> (now Dec 19<sup>th</sup>) and a full day of sessions on the 18<sup>th</sup> (Now Dec. 20<sup>th</sup>).

### **Other Business**

- Legislative Update -Jim Smith
  - Scott Stone Event.....see attached flyer
  - Bill Rabon and Kathy Harrington Event.....see attached flyer

**Next meeting is November 19, 2018 from 3:00 to 5:00 p.m. at PNC Arena West.**

The meeting adjourned at approximately 4:30 PM.

# **MEETING SIGN-IN SHEET**

# ACEC/NC TRANSPORTATION COMMITTEE MEETING

Monday August 27th, 2018 at 3:00 PM

Arena Club West PNC Arena

Raleigh, North Carolina

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# **DESIGN-BUILD**

# **NCDOT/ACEC-NC/CAGC DESIGN-BUILD JOINT COMMITTEE – Meeting Minutes** **(revised Aug. 24, 2018)**

Date: August 7, 2018 at 9:30 AM  
Location: NCDOT – Century Center, Building A,  
Structures Conference Room C, 1020 Birch Ridge Drive, Raleigh, NC 27610  
Attendees: See Meeting Attendee List

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- I. Welcome and Introductions (Teresa)  
1. Teresa began meeting with welcome and introductions.
- II. NCDOT / NCTA Items (Teresa / Rodger)
1. Exclusions for SPOT Work (Jim Dunlop presented)
    - a. Jim spoke on the possibility of not requiring firms that perform traffic analyses for SPOT to obtain an exception to participate on a Design-Build Team. Jim indicated the importance of being proactive in providing the analyses in order to meet project schedules. Analysis results are a 2 page report that would be available to all DB participants (reference attachment).
    - b. Committee members concurred the service would be considered as a “no conflict” and an exception request letter would not be necessary from the firm performing the SPOT traffic analyses. However, please review the specific work tasks that are excluded from the Design-Build Policy and Procedures use of consulting engineer requirements in the Request for Qualifications.
  2. Fuel Price Adjustment (Lamar Sylvester presented)
    - a. Presented the issue of DBB and DB contracts for fuel price adjustment should apply only to additional recycled material and that the DB process will match the current standard specifications. Implement spec for I-3819B RFP addendum and all DB projects beyond October 2018. (reference attachment).
  3. Summary Sheets (Teresa presented)
    - a. Summary Sheets are typically not required for Design-Build Projects , but some Divisions are requesting specific Summary Sheets post-Award. Be aware for future pursuits and review the Roadway Scope of Work for requirements concerning Summary Sheets.
  4. ATC Submittals (Teresa presented)
    - a. All ATCs must be addressed to Ron Davenport, but may be submitted directly to the Design-Build Unit. If the Design-Build Team would like the ATCs stamped in, they should deliver them to Carla Thompson in the Design-Build Unit.
  5. NCTA Updates (Rodger presented)
    - a. NC 540 is moving forward and in process of procurement phase.
    - b. NCTA is utilizing “track changes” for DRAFT RFP addendums and is working well.
    - c. R-2721A is scheduled for Sept 4 advertisement.
    - d. Mid Currituck Bridge (R-2576) has been moved to July 2019 let and dependent on plan of finance.
    - e. U-2509 (US 74 Managed Lanes) procured by NCTA, \$400M, maybe split into two projects, scheduled for advertisement end of 2019 but dependent on NEPA document progress.



- III. Upcoming Design-Build Projects (Anticipated DB List) (Teresa)  
a. See the attached Anticipated Design Build Project List dated August 24, 2018. (Note revisions since the August 8<sup>th</sup> meeting in red).

- IV. Carolina AGC Items (Berry)
1. Legislative Update (Berry Jenkins presented)
    - a. Build NC passed and is good for industry. Provides \$300M/year. Not for statewide funding but regional and local tier projects under the STI law. NCDOT will reduce cash balance for implementation of the Build NC funding.
    - b. Discussed the implementation of a regional on-call (Div 1-4; 5-8;9-12;13-14) for Emergency Express Design Build projects in preparation of emergency responsiveness. Advertise for a Contractor and Engineering firm team in fall 2018 and selection end of 2018.
    - c. NCDOT is continuing to assess the Legislative agenda for next year. Industry needs to “protect” the Build NC funding.
  2. Revisit allowing price proposal to be submitted on day of opening and not with technical proposal. (Berry Jenkins and AGC presented)
    - a. Industry has requested NCDOT consider separate submittals for the technical proposal and the bid package.
    - b. Concerns:
      - i. Breaching of proposal information prior to submitting bid.
      - ii. To prevent a Design-Build Team from potentially receiving an advantage during the Technical Presentation discussions, the NCDOT DB prefers the bid be submitted prior to the Technical Presentation and not at bid opening.
    - c. Advantages:
      - i. Allows additional duration for technical plan review for bidding. The additional duration is desired.
      - ii. Most vendors typically do not respond until 10 days prior to a let opening date, so the quotes are late for the technical proposal/bid submittal.
    - d. Summary:
      - i. Majority of contractors agreed with the separate submittal.
      - ii. This process is implemented by NCTA for the R-2828 NC 540 procurement.
      - iii. Decided to wait and evaluate the process of R-2828.
      - iv. Item will remain on our agenda for next meeting.
      - v. Concerns / recommendations should be forwarded to the Design-Build e-mail address.

- V. ACEC Items (Scott)
1. Construction Manager General Contractor (CMGC) Update (Lamar Sylvester & Berry Jenkins presented)
    - a. Designated up to 5 Pilot projects < \$100M.
    - b. Currently, no projects have been selected.
    - c. NCDOT and AGC are currently researching other states implementing CMGC.
    - d. NCDOT and AGC have formed a task force for implementing CMGC.
  2. Track Changes to RFP and Final Update on R-2828 (Roger presented)
    - a. Track changes were implemented for R-2828 and feedback from NCTA and Contractors it is working well.
    - b. NCTA will implement track changes for R-2721 B & A.

- VI. Open Discussion / Ongoing Items (Committee)
1. Stipend Task Force Update from May 1 meeting (Scott Boyles presented)
    - a. Dave Pupkiwicz provided material to Daniel this past year. Scott will follow up with Daniel and present to the committee for decision.
  2. Extra Credit beyond Warranties Update from May 1 meeting (Scott Boyles presented)
    - a. This item was addressed at the May 2018 meeting. No further action needed.

- VII. Other topics:
1. Industry Resource Discussion (Berry). Construction industry is in an “image” campaign to promote careers in construction.
  2. Design Build Format for Request for Payment to resident engineer. Mike Taylor polled the committee asking if a NCDOT form exists for contractors to use for payments. Lamar will address this topic and report back to the committee.
  3. CPM Schedules. Lamar inquired to contractors if NCDOT could capture more cost information and needs contractor feedback for further discussions.
  4. Do Better Questionnaire. Chuck Gallant suggested adding for the next meeting agenda item list a questionnaire for NCDOT staff to answer and provide feedback:

Question no. 1: I wish the Design-Build Team would \_\_\_\_\_.

Question no. 2: I wish the Design-Build Team would NOT \_\_\_\_\_.

- VIII. Next Meeting (Scott)
1. 2018-2019 Meeting Schedule:
    - November 6, 2018
    - February 5, 2019
    - May 7, 2019

IX. Meeting Adjourned 1135am.



SPOT ID:	H172307	TIP No.:		County:	Wake	Division:	5
Route No.:	SR 1664 (Duraleigh Rd)		Cross Street/Limits:	SR 3009 (Edwards Mill Rd)			

Base Year: 2016 (53,000 trips/day)  
 Future Year: 2026 (58,400 trips/day)  
 Area Type: Urban  
 Terrain: Rolling

**AAADT Source**  
 A - NCDOT AAADT Map at Intersection  
 B - NCDOT AAADT Map - Adjacent Segment  
 C - Based on Traffic Count Proportions  
 D - Based on Traffic Forecast Proportions  
 E - Based on Engineering Judgment  
 F - Other - See Notes

**Turning Percentage Source**  
 I - Turning Movement Count  
 II - Traffic Forecast  
 III - Travel Demand Model  
 IV - Engineering Judgment  
 V - Other - See Notes

**SR 3009 (Edwards Mill Rd)**

Node ID: 1  
 2016 AADT: 22,000  
 Source: A  
 PM Peak Dir: OUTBOUND  
 No. of Lanes: 4  
 Facility Type: Arterial  
 Classification: Arterial

Growth Source: NCSTM  
 Annual Growth %: 0.9%  
 Change in Turn %: No  
 2026 AADT: 24,100

K =	0.1
D (AM) =	0.55
D (PM) =	0.45

Specific Improvement Type

Daily Savings Conv. Factor	1.3
Demand Constraint Conv. Factor	2.1

V/C Ratio	Over/Under Capacity
1 0.69	Under
2 0.73	Under
3 0.88	Over
4 1.04	Over
% of Links Over Capacity: 50%	



Node ID: 4  
 2016 AADT: 33,000  
 Source: A  
 PM Peak Dir: OUTBOUND  
 No. of Lanes: 4  
 Facility Type: Arterial  
 Classification: Arterial

Growth Source: NCSTM  
 Annual Growth %: 0.8%  
 Change in Turn %: No  
 2026 AADT: 35,700

2016 AM Peak Travel Time Saving	122
2016 PM Peak Travel Time Saving	34
Daily Savings Conv. Factor	2.6
2016 Daily Travel Time Savings	409.4
2026 AM Peak Travel Time Saving	331
2026 PM Peak Travel Time Saving	141
2026 Daily Travel Time Savings	1237.2
Days per Year	260
Travel Time Savings Duration	10 Years

**10-year Travel Time Savings**  
**2,141,000 hours**  
**Travel Time Savings Per Vehicle**  
 2016: 28 sec/veh, 2026: 76 sec/veh

Node ID: 2  
 2016 AADT: 23,000  
 Source: B  
 PM Peak Dir: INBOUND  
 No. of Lanes: 4  
 Facility Type: Arterial  
 Classification: Arterial

Growth Source: NCSTM  
 Annual Growth %: 0.1%  
 Change in Turn %: No  
 2026 AADT: 23,200

**2016 AM Peak O-D Matrix**

	1	2	3	4	Total
1		234	950	26	1210
2	99		207	418	724
3	704	125		291	1120
4	111	1094	875		2080
Total	914	1453	2032	735	5134

**2016 PM Peak O-D Matrix**

	1	2	3	4	Total
1		244	660	86	990
2	237		160	948	1345
3	880	74		725	1679
4	107	498	286		891
Total	1224	816	1106	1759	4905

Node ID: 3  
 2016 AADT: 28,000  
 Source: B  
 PM Peak Dir: INBOUND  
 No. of Lanes: 4  
 Facility Type: Arterial  
 Classification: Arterial

Growth Source: NCSTM  
 Annual Growth %: 1.9%  
 Change in Turn %: No  
 2026 AADT: 33,800

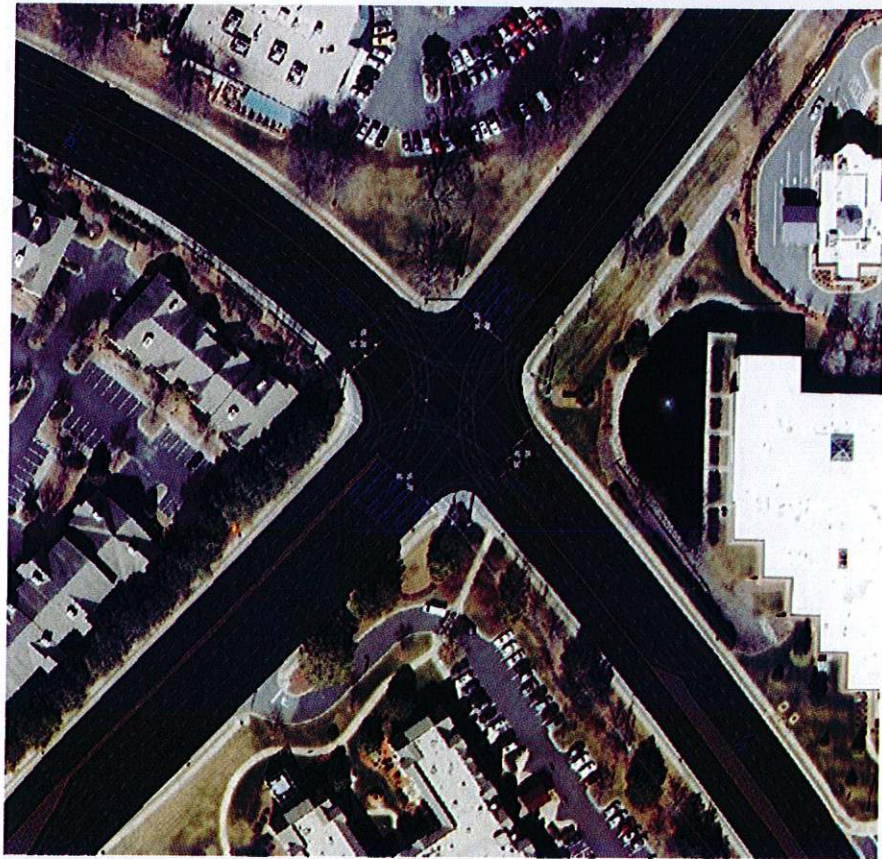
**2026 AM Peak O-D Matrix**

	1	2	3	4	Total
1		257	1040	28	1325
2	100		209	422	731
3	850	151		352	1353
4	120	1183	946		2249
Total	1070	1591	2195	802	5658

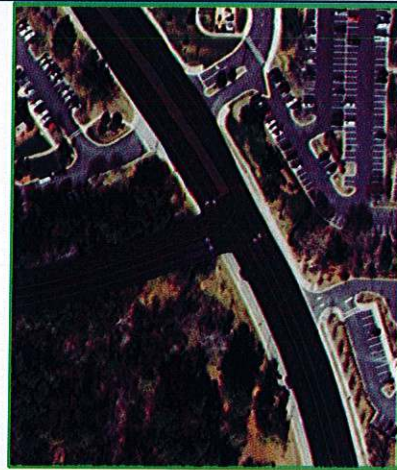
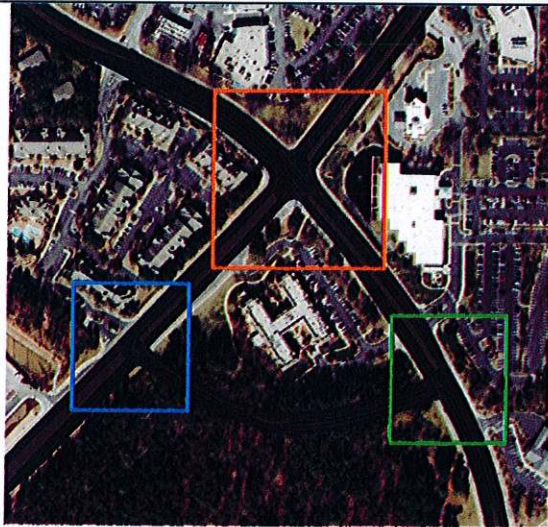
**2026 PM Peak O-D Matrix**

	1	2	3	4	Total
1		267	723	94	1084
2	239		162	956	1357
3	1063	90		876	2029
4	116	538	310		964
Total	1418	895	1195	1926	5434

	2016 No-Build										2026 No-Build											
	AM Peak										AM Peak											
Vehicle Hours Traveled (VHT)	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average
Queued Trips	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	15.1	20.2	16.3	14.9	14.6	21.5	15.0	13.8	20.4	16.7
Total VHT	246.7	235.3	259.1	237.5	229.0	244.4	233.6	248.5	243.3	238.7	241.6	463.4	481.3	499.6	469.7	466.1	458.4	484.7	484.4	443.7	491.3	474.3
	PM Peak										PM Peak											
Vehicle Hours Traveled (VHT)	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average
Queued Trips	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total VHT	153.3	156.9	167.4	152.7	153.6	153.1	153.4	151.2	149.9	164.1	155.5	271.3	301.5	277.4	279.5	258.5	277.5	282.5	279.6	282.8	273.9	278.4
	2016 Build										2026 Build											
	AM Peak										AM Peak											
Vehicle Hours Traveled (VHT)	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average
Queued Trips	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total VHT	119.3	119.4	119.1	119.5	119.4	119.1	119.6	119.8	119.7	119.6	119.5	143.4	143.4	142.6	143.7	144.0	143.5	143.5	144.9	143.3	143.2	143.5
	PM Peak										PM Peak											
Vehicle Hours Traveled (VHT)	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average	RS = 5	RS = 10	RS = 15	RS = 20	RS = 25	RS = 30	RS = 35	RS = 40	RS = 45	RS = 50	Average
Queued Trips	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total VHT	122.9	123.1	119.9	121.2	123.7	122.7	124.5	120.2	120.3	118.9	121.7	137.6	138.1	136.1	136.4	138.2	138.4	139.0	137.3	137.5	139.8	137.8



Existing Configuration



Proposed Build Design

**PRICE ADJUSTMENTS FOR ASPHALT BINDER**

(9-1-11) (Rev. 8-23-18)

DB6 R25

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the 2018 *Standard Specifications for Roads and Structures*.

The base price index for asphalt binder for plant mix is \$ **PRICE TO BE INCLUDED IN THE FINAL RFP** per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on .



**NCDOT / ACEC-NC / CAGC DESIGN-BUILD JOINT COMMITTEE**  
**Anticipated Design-Build Projects**  
**August 24, 2018**

- **R-2721A** - Southern Wake Freeway from NC 55 (south) to east of Holly Springs Road - **NCTA**  
**NOTE:** U-5746 will not be included with R-2721 (US 401 from NC 540 to SR 1010 (Ten Ten Road) - **NCTA**
  - Anticipated September 2018 Advertisement
  - Approximately 4.6 miles
  - Preliminary Construction Estimate - \$130 million
  
- **I-5986A** - I-95 from I-95 Business (Exit 56) to SR 1811 (Bud Hawkins Road - Exit 70) - Widen to eight lanes  
**I-5877** - I-95 at SR 1811 (Bud Hawkins Road - Exit 70) and SR 1001 (Long Branch Road - Exit 71) - Improve interchanges - May be included
  - Anticipated October 2018 Advertisement
  - Approximately 14 miles
  - Preliminary Construction Estimate - \$318 million
  
- **Division 6 Express Design-Build**
  - Anticipated October 2018 Advertisement
  - Two Contracts
  - Three bridges in one contract / Four bridges in one contract
  
- **Division 13 Express Design-Build**
  - Anticipated December 2018 / January 2019 Advertisement
  - Two Contracts
  - Three bridges in each contract
  
- **U-5518** - US 70 (Glenwood Avenue) from west of SR 3067 (T.W. Alexander Drive) to I-540
  - Anticipated January 2019 Advertisement
  - Approximately 2.0 miles
  - Preliminary Construction Estimate - \$73 million

- **R-2576 - Mid-Currituck Toll Bridge - NCTA**
  - Based on recent schedule change, anticipated **January 2019 Advertisement** - Schedule dependent on Plan of Finance and TIFIA Loan
  - Approximately 9.9 miles
  - Procurement Type to be Determined - Design-Build / Design-Build Finance / P3
  - Preliminary Construction Estimate - \$383 million
  
- **I-5870 – I-440 / US 1 from west of Ridge Road to east of US 70 (Glenwood Avenue) - Construct new I-440 / US 1 / Ridge Road interchange to connect with Crabtree Valley Avenue - Realign I-440 / US 1 / US 70 (Glenwood Avenue) interchange - Realign and widen Crabtree Valley Avenue between SR 3009 (Edwards Mill Road) and Ridge Road**
  - Anticipated early 2019 Advertisement – Potential schedule change to delay
  - Preliminary Construction Estimate - \$150 million
  
- **U-5026 - I-95 at SR 1770 (Sunset Avenue)**  
**U-5996 - SR 1603 (Old Carriage Road) from Green Hills Road to SR 1770 (Eastern Avenue) - Add center turn lane and widen US 64 bridge over SR 1603**  
**R-5720 - SR 1770 (Eastern Avenue) from SR 1003 (Red Oak Road) to SR 1603 (Old Carriage Road) - Widen to multi-lanes - Division**
  - Anticipated March 2019 Advertisement
  - Preliminary Construction Estimate - \$87 million
  
- **I-3306A - I-40 from I-85 in Orange County to Durham County Line**
  - Pending funding availability, anticipated April 2019 Advertisement
  - May only include the AA Section (from I-85 to NC 86)
  
- **U-5876 - US 70 (Arendell Street) from Fourth Street to SR 1175 (Radio Island Road) - Widen to multi-lanes - Division**
  - Anticipated June 2019 Advertisement
  - Preliminary Construction Estimate - \$140 million
  
- **R-5829A & B - US 70 from US 70 Bypass to east of SR 2314 (Pondfield Road) - Upgrade to freeway standards - Division**
  - Potential June 2019 Advertisement - Division asked to accelerate
  - Preliminary Construction Estimate - \$92 million

- ~~A-0010AA - I-26 (US 19 / US 23) from SR 1781 (Broadway Street Exit 25) in Asheville to US 25~~
  - ~~Anticipated July 2019 Advertisement~~
  - ~~Preliminary Construction Estimate - \$90 million~~
  
- **I-2513B** - New Route from north of SR 3548 (Haywood Road) to existing US 19 / US 23 / US 70
  - U-5868** - SR 1477 (Riverside Drive) from NC 251 / SR 1781 to I-40 SR 1231 (Hill Street)
    - Anticipated December 2019 Advertisement
    - May combine with I-2513A - Pending evaluation of “A” section (currently unfunded)
    - Approximately 2.6 miles
    - Preliminary Construction Estimate - \$244 million
  
- **I-2513C** - I-240 / I-40 / I-26 Interchange
  - Anticipated December 2019 Advertisement - Potential to accelerate (**April or July 2019**)
  - May combine with I-2513A - Pending evaluation of “A” section (currently unfunded)
  - Preliminary Construction Estimate - \$203 million
  
- **U-2509** - US 74 (Independence Boulevard) from Charlotte Outer Loop to Idlewild Road - **NCTA**
  - Anticipated December 2019 Advertisement
  - Preliminary Construction Estimate - \$412 Million

Please initial your name if all correct. Provide updates as needed. If name not included, please add your information.

	NAME	COMPANY	Email Address
<b>NCDOT / NCTA</b>			
✓	Teresa Bruton	NCDOT – Design Build	<a href="mailto:tbruton@ncdot.gov">tbruton@ncdot.gov</a>
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✓	Lamar Sylvester	NCDOT – Construction	<a href="mailto:lsylvester@ncdot.gov">lsylvester@ncdot.gov</a>
✓	Karen Capps	NCDOT – Design Build	<a href="mailto:kbcapps@ncdot.gov">kbcapps@ncdot.gov</a>
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✓	David Carr	APAC Thompson Arthur	<a href="mailto:dcarr@apac.com">dcarr@apac.com</a>
	Larry Brickey	APAC Thompson Arthur	<a href="mailto:cobrickey@apac.com">cobrickey@apac.com</a>
✓	Bill Copeland	KCI	<a href="mailto:Bill.copeland@kci.com">Bill.copeland@kci.com</a>

Carolina AGC

	Carolina AGC		

# **PROJECT DELIVERY**

ACEC/NCDOT Transportation Delivery Subcommittee  
August 2, 2018 Meeting Minutes  
Chief Engineer's Conference Room, Raleigh, NC

Attendees:

Scott Cole (Co-Chair)	NCDOT Division 10
Tim Little	NCDOT Chief Engineer
Ron Hancock	NCDOT Deputy Chief Engineer
Chris Werner	NCDOT Technical Services
Bill Kincannon	NCDOT Technical Services
Robert Stroup	NCDOT PSMU
Tom Payne	NCDOT PSMU
Branda Moore	NCDOT Roadway Design Unit
Bryan Edwards	NCDOT CADD Services
Matt Clarke	NCDOT Division 4
James Green	NCDOT Division 4
Brandon Jones	NCDOT Division 8
Brett Abernathy	NCDOT Division 9
James Byrd (Co-Chair, Outgoing)	HNTB
Tom Goodwin (Co-Chair, Incoming)	Gannett Fleming
Jason Peterson (ACEC Trans Committee)	S&ME
Tim Hayes	ATCS
David Keiser	CDM Smith
Tim Reid	Moffat & Nichol
Jon Nance	Mott McDonald
Lisa Samples	MS Consultants
Doug Taylor	Stewart Engineering
Greg Purvis	Wetherill Engineering

Phone:

Bill Goodwin	NCDOT Structures Management Unit
Russell Broadwell	NCDOT Division 4
Richard Hancock	NCDOT Division 5
Steve Kendall	NCDOT Division 6
Jennifer Evans	NCDOT Division 7
Allison Kluttz	NCDOT Division 8
Jackie McSwain	NCDOT Division 12
Mark Gibbs	NCDOT Division 13

**I. Welcome and Introductions**

- Scott Cole welcomed the group to the Chief Engineer's Conference Room for the Quarterly Transportation Delivery Subcommittee Meeting.
- Everyone introduced themselves.
- James Byrd announced his term was ending and this will be his last meeting as Co-Chair. Introduced Tom Goodwin as the incoming Co-Chair.
- New members joining the Subcommittee from the private engineering side are David Keiser, Phillip Rogers, and Mike Lindgren.
- Current members whose terms are ending include James Byrd, David Wilver, Steve Whitley, Lisa Samples, Jon Nance, and Rodney Money.



## II. Review of the 05/03/2018 Transportation Delivery Subcommittee Meeting Minutes

- No comments were provided / recorded.

## III. Legislative Update / Chief Engineer's Comments – Tim Little and Ron Hancock

- Announced Mark Gibbs as the new Division Engineer in Division 13.
- Build NC Infrastructure Bond
  - i. Expressed appreciation to the PEF community for assistance in getting support for the Build NC infrastructure bond recently approved by the General Assembly.
  - ii. NCDOT is developing a list of bond projects.
  - iii. \$3 Billion over 10 years
- Secretary's Vision – They are looking at long term revenue reform to find additional investment opportunities
- Year-to-date they have spent \$400M on P&E. This is twice what has been in recent years.
- The cash balance keeps reducing. Currently around \$1.2B. Should be under \$1B by the first of the year which is their goal.
- Spending more money through Maintenance.
- The \$147 Million Infrastructure Grant was recently awarded. It includes:
  - i. I-95 - I-5986A will be Design-Build and will be advertised this fall and awarded next spring.
  - ii. R-5777C - US 70 Havelock - James City (I-42 future)
  - iii. High Speed Fiber
  - iv. Asset Management
  - v. John Rouse – Program Manager
- Looking at advertising for Express Design Build On-Call Services
  - i. Will be selected by Regions. Divisions 1 – 4, Divisions 5-8, Divisions 9-12, and Divisions 13-14.
  - ii. Will be advertised this fall.
  - iii. Used for emergency services or to accelerate as needed.
  - iv. Contract will be capped at \$10M
  - v. Contracts will include surveying and drilling.
- Construction Management General Contractor (CMGC)
  - i. Proposed 5 projects
  - ii. Capped at \$100M each
  - iii. Working with AGC to develop procedure and pilot, will be ready by the end of the year
  - iv. No projects have been identified yet.
  - v. Firm selection process will be through current procedures.

## IV. "Master Plan" Update, Regional LSC/GESC's – Robert Stroup

- The Western Divisions On-Call Contracts (136) should all be executed by mid-August
- The Eastern Divisions On-Call is anticipated to be advertised in February 2019
- The PDEA / Roadway On-Call is anticipated to be advertised in February 2020
- Some current contracts may be extended to cover the gap between the end of the existing contract and the beginning of the new contracts.
- Contracts for the Western Divisions are directly with the Divisions. This will allow the Divisions to better manage their projects.

**V. Technical Services Update – Chris Werner**

- BUILD Transportation Grants (Former TIGER Grant) – pushing hard for more assignments
- Working with Units to establish a new business model. Not there yet.
- Looking to advertise for firms to assist through a GESC type Agreement to assist the Project Management, NEPA/SEPA, and Roadway Design Units.
- Currently reviewing all policies and procedures.
- Chris and staff are going out to meet with all Divisions.
- Working to shrink the Project Development process. Looking to increase preliminary scoping and long range planning to better define projects to submit for STIP scoring.
- Developing Scoping Reports, similar to express design feasibility studies to help identify document type and appropriate funding source.
- Continuing to work towards GIS available information to use.
- Looking for 2 PMU team leads.

**VI. Consultant Evaluation Process – Update – Brenda Moore**

- Currently working on the process
- Technical Services will be the owner of the documents
- Looking for input from other States
- Policy should be out by mid-August and complete by December
- All forms will be electronic and can combine with invoicing, submittals, etc.
- Desire is to have a form that is standard and consistent for all units
- Intent is to have the evaluation completed within 30 days of the completion of the contract with results quickly available.
- Overall goal is to provide meaningful feedback that will assist firms.

**VII. Open Roads Software – Bryan Edwards**

- NCDOT is looking at migrating to Open Roads Designer from Bentley. Open Roads is a 3D based design and modeling software as compared to the current 2D software packages.
  - i. They will pilot Open Roads on several projects.
  - ii. Some pieces of the current software will not work with Open Roads and they are working on solutions. (Example – Drainage Summary Sheet)
  - iii. Anticipate migrating to Open Roads around March of 2019. How they will migrate (legacy vs. new projects only) is not known at this time.
  - iv. Internal training will be provided similar to previous training.
  - v. External training – PEF's will need to get general training from Bentley on their own. Training for NCDOT specific applications will be provided by NCDOT through ACEC.
  - vi. Derrick Gray with Bentley will be making an executive level presentation to NCDOT on August 30<sup>th</sup>.
- NCDOT is looking at ProjectWise as a document management system. ProjectWise is cloud based system hosted by Bentley.
- NCDOT will be testing ProjectWise on 3 pilot projects in August or September.
- NCDOT is also looking at Blue Beam as a markup / review tool. Currently used by Matt Lawford with the Hydraulics Unit. Looking to have in place in 30-45 days. Requires minimal training. Video training files are available.
- NCDOT will meet and discuss the possibilities of joint NCDOT / PEF training opportunities.

**VIII. Project Delivery through Construction – Brandon Jones**

- Brandon expressed an interest in looking at avenues to allow the Divisions to keep design firms under contract to assist with construction revisions on a cost-plus basis.
- Several methods were discussed.
- NCDOT will meet and discuss internally and develop a best practice policy.

**IX. Division Training – Update – Jon Nance**

- Terry Canales will replace Jon Nance and Donna Keener with the training.
- Three recent webinars
  - i. Traffic Noise Policy – Changes since original training
  - ii. Air Quality Analysis – Pop up training that came about due to a recent court ruling with new requirements.
  - iii. Mapping, Surveying and Photogrammetry - Update to original training which included new mapping products.
- All webinars are recorded and approved for PDH's.

**X. Division Comments and Open Discussion**

- Suggested that the SPOT Office be invited to future meetings.
- Potential future topic of discussion – STIP update
  - i. Statewide scoring has been released.
  - ii. Regional scoring released by the end of September
  - iii. Division scoring to be released by November.

**XI. Industry Comments and Open Discussion**

- Question as to how new projects will be assigned under new Western Division On-Call. Divisions can begin PE after scoring is released. Do not have to wait for the STIP to be approved.
- NCDOT will be looking to move forward with the design of projects even if the let date is years away. Have them designed and shelf ready if needed. The term shelf ready is not well defined and needs to be considered further.

**XII. Next Meeting**

- Tentatively Thursday, November 8, 2018 at 1:30pm in the Chief Engineer's Conference Room.

# **CONSTRUCTION & MATERIALS**

# **ACEC / NCDOT JOINT SUBCOMMITTEE ON CONSTRUCTION & MATERIALS**

## **July 18, 2018 Meeting Minutes**

The meeting was held on July 18, 2018 at NCDOT Materials and Tests Unit Conference Room, located at 1801 Blue Ridge Road, Raleigh, North Carolina at 1:30 p.m. In attendance were:

<b><u>NAME:</u></b>	<b><u>REPRESENTING:</u></b>	<b><u>EMAIL ADDRESS:</u></b>
Robert Belisle	Terracon	rlbelisle@terracon.com
Eddie Bishop	HNTB	ebishop@hntb.com
Kevin Bowen	NCDOT – Division 3	kgbowen@ncdot.gov
Davis Diggs	Kleinfelder	ddiggs@kleinfelder.com
Terry Farr	NCDOT – PSMU	tfarr@ncdot.gov
Adam Gosselin	RS & H	Adam.gosselin@rsandh.com
Michelle Long	NCDOT - Chief Engineer's Office	mglong@ncdot.gov
Tom Payne	NCDOT – PSMU	tpayne@ncdot.gov
Allen Pope	S & ME	apope@smeinc.com
Jim Sawyer	NCDOT- Materials and Tests Unit	jsawyer@ncdot.gov
Robert Stroup	NCDOT – PSMU	rstroup@ncdot.gov
Lamar Sylvester	NCDOT – Construction Unit	lsylvester@ncdot.gov
Jeff Thatcher	RK & K	jthatcher@rkk.com
Robert Walker	DRMP	rwalker@drmp.com
Todd Whittington	NCDOT- Materials and Tests Unit	twhittington@ncdot.gov
Sherell Williams	NCDOT – Construction Unit	sherellwilliams@ncdot.gov

### **SUBCOMMITTEE BUSINESS**

#### **Review of Minutes of April 18, 2018 Meeting – Group**

The committee reviewed and approved the minutes as submitted.

#### **New Subcommittee ACEC Committee Members**

Mr. Jeff Thatcher announced Eddie Bishop, PE, of HNTB, and Davis Diggs, PE, of Kleinfelder, as the new subcommittee members filling the vacancies left by Robert Walker and Kevin Lugo. Mr. Thatcher will serve as the Industry Co-chairman and Mr. Allen Pope will serve as the Industry Lead.

Ms. Sherell Williams announced Kevin Bowen, PE, Division Construction Engineer for Division Three (3) as a new member, filling the NCDOT vacancy left by the retirement of Keith Raulston.

## **TRAINING**

### **Materials and Tests Training Updates**

Mr. Jim Sawyer advised that the Materials and Tests Unit (M & T) has seen a high rate of failures on the ACI portion of the concrete test for the Written Test Only examinations (with no review before the test.) Firms are encouraged to advise their technicians to review information before taking the test. Mr. Sawyer announced that M & T is developing an On the Job Training requirement that has to be complete prior to attending a concrete school. The OJT requirement is proposed to begin in early 2019. M & T will implement a new class scheduling and registration software that will replace the current "Reg Online" software. The new software is proposed to be launched in 2019. M & T is considering creating "Mobile Classes" for small groups of people. The Mobile Class will target people who missed registration and will be based on the statistics from the Reg Online waiting list locations. Therefore, firms are encouraged to register for the wait list, if classes are full.

### **Discussion Items**

#### **Nuclear Gauges**

Mr. Sawyer gave an update of the NCDOT Nuclear Gauge Loan Program. He advised the Department has 4-5 gauges on loan (at no cost to the firm). It was agreed that NCDOT will rent gauges from firms that own gauges and pay a monthly rental rate. The monthly rental has not been established to date. The Industry was asked to provide information to NCDOT in three weeks (August 10<sup>th</sup>) to assist the Department in establishing a monthly rate.

#### **Specifications for New Digital Thermometer**

Mr. Todd Whittington advised that the specifications for the digital truck thermometer are provided in the 2018 QMS Manual. He also provided a handout with the information of the digital truck thermometer the NCDOT Materials & Tests Unit is purchasing. Digital truck thermometers are currently not required; however, M & T proposes to make them required in 2019. M & T has provided truck digital truck thermometers to each Resident Engineer's office.

#### **New Trainee Program**

Ms. Sherell Williams advised that several trainee registration requests had been received and she is currently working on the approval letters. If the firm has trainees that began the training program before May 15, 2018, the firm is requested to provide documentation of classes completed and certifications obtained. The State Construction Engineer's office will review the billable hourly rate and completion date of the training program on a case by case basis.

Ms. Williams reminded the Industry the registration requests should be sent to the State Construction Engineer. The Resident Engineers or Contract Administrators may be

sent a copy. Information about the Engineering Technician I Trainee Program can be found on the Construction Unit webpage using the link below.

<https://connect.ncdot.gov/projects/construction/Pages/Construction-Memorandums.aspx>

### **Invoice Cover Sheet**

Ms. Michelle Long advised she is creating a Uniform Invoice Coversheet to give Division personnel a summary of all charges against WBS numbers. She has asked for volunteers to review the invoice cover sheet for comment. Jeff Thatcher, Allen Pope, Adam Gosselin and Kevin Bowen will review the cover sheet for comment.

### **Adjustments to Vehicle Mileage Rates**

Ms. Sherell Williams advised the subcommittee of the adjustment of the reimbursable vehicle mileage rate effective July 1, 2018 as listed below:

- Two -wheel drive vehicle - \$0.16
- Four-wheel drive vehicle - \$0.18

The new rates are posted on the Maximum Allowable Non-Salary Direct Cost Sheet posted NCDOT Consultants webpage.

<https://connect.ncdot.gov/business/consultants/Pages/Guidelines-Forms.aspx>

### **Safety Training**

Ms. Michelle Long advised that NCDOT is requiring all private engineering CEI engineers and technicians complete a minimum safety training by March 1, 2019. The OSHA 10-Hour Safety training should meet the training requirement. The State Construction Engineer will send a letter to the private engineering firms.

### **Billable Hourly Rates**

Ms. Sherell Williams advised that Mr. Lamar Sylvester, State Construction Engineer, sent a memorandum, dated June 28, 2018 to the private engineering firms establishing new ranges for reimbursable billable hourly rates for PEF engineering technicians effective July 1, 2018. The increase was a combination of the both NCDOT Market Study and Compensation and Classification Study. The official 2018 Salary Calculator for the 2018 Revised Billable Hourly Ranges will be posted on the Consultants webpage and can be accessed using the link below.

<https://connect.ncdot.gov/business/consultants/Pages/Guidelines-Forms.aspx>

### **CEI Guidelines**

Mr. Jeff Thatcher requested that the Department update the NCDOT Construction Engineering and Inspection Guidelines to include the changes in subjects such as contract administration, Tools of the Trade, and contract language. Ms. Williams advised that the Department will schedule updating the guidelines and plan training.

### **Upcoming Projects**

Ms. Sherell Williams advised no new projects are added to the list of anticipated upcoming projects posted on the NCDOT Consultants website. However, the list will be

updated, removing project I-4739 /I-5111 in Wake County, which was advertised on July 15, 2018.

The updated list of all anticipated advertisements will be uploaded to the NCDOT Consultant website listed below.

<https://connect.ncdot.gov/business/consultants/Pages/Guidelines-Forms.aspx>

**Next Meeting:** Wednesday, October 17, 2018 at 1:30pm



# **STRUCTURES**

# ACEC/NCDOT BRIDGE SUBCOMMITTEE



Structures Conference Room C

August 6, 2018

10:30 am

## MINUTES OF MEETING

Meeting was called to order at 10:30 am. In attendance were:

Brian Hanks – NCDOT Structures Management Unit  
Kevin Fischer – NCDOT Structures Management Unit  
Gichuru Muchane – NCDOT Structures Management Unit  
David Stutts – NCDOT Structures Management Unit  
Tierre Peterson – NCDOT Structures Management Unit  
Josh Taylor – CDM Smith (Co-Chair)  
Seth Denney – Kimley Horn  
Ricky Keith – RK&K  
Sam Cullum – KCA  
Jennifer McRoy – Dewberry  
Sam Al-Jamal, represented by Paul Holshouser – ICE

- 1) Allowed everyone time to review the minutes from the May 7<sup>th</sup> meeting and they were accepted without modification.
- 2) Bridge Design Workshop Series
  - a) Josh reported on activity for the potential temporary bridges workshop, recapping highlights of a planning meeting held 8/3 with Dan Muller, James Bolden, Gichuru Muchane and Josh Taylor. In the 8/6 subcommittee meeting it was decided to discontinue pursuing this as a Workshop topic since the utility of this topic to practicing bridge engineers is limited with the prevalence of post-award contractor engagement of vendors for the superstructure design.
  - b) Gichuru reported that the Bridge Inspection Manual development is in progress. It was proposed that when the Manual is complete, a 2019 Workshop could be utilized to provide an overview of the document.
  - c) Sam reported on coordination with Domenic Coletti on a potential Workshop discussing design of the Bonner Bridge. Following the meeting, it was confirmed that Domenic / HDR are not going to be presenting on this topic in the upcoming September ACEC/NCDOT Joint Transportation Conference, opening the door to presenting on this topic in the October Workshop. Coordination for October delivery in progress.

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August 6, 2018

10:30 am

- d) A discussion was held on the potential for presenting a Workshop on NCDOT Bridge Aesthetics.
  - i) Presently for SMU and Division structure projects, there is no fixed policy or standardization of aesthetic options beyond the recently updated noise wall standards incorporating aesthetic alternatives.
  - ii) Aesthetic treatments are considered and incorporated on an as-requested basis, principally initiated by municipalities seeking to enhance bridges in their charge, for those bridges which involve design and construction contract administration facilitated by NCDOT. Aesthetic options commonly incorporated, with municipal cost-sharing, include anodized rail, use of concrete staining, form liners. Infrequently, medallions are incorporated.
  - iii) To further explore the topic, Seth will coordinate with Jeff Lackey in the Aesthetic Engineering Section.
- e) Josh provided an update on the potential deck closure pour Workshop topic. Josh will coordinate with Aaron Earwood to explore combining the structural considerations of closure pours within a larger framework discussing staged construction of bridges generally with case-studies to illustrate considerations.
- f) February 2019 was proposed as best month for next Workshop following October's Workshop.

### 3) Training Opportunities

- a) Gichuru reported that the Strut and Tie Model training held on June 6<sup>th</sup> and 7<sup>th</sup> was comprehensive and informative. It was also noted that a Policy Memo would be forthcoming on when to utilize strut and tie modeling.
- b) It was noted that the PCI Seminar scheduled for November 14 is largely set to go, with one last round of coordination needed to lock in the Seminar Session topics to be presented. Josh to coordinate with Peter Finsen.
- c) Seth to coordinate with Chris Garrell and/or Jeff Carlson of NSBA to initiate planning for the proposed 2019 Steel Bridge Forum.

### 4) Anticipated PEF Opportunities

David, Brian and Kevin discussed the following:

- a) 40 Bridge-Program turn-key projects have now been prescreened and scoped for Program Year 5 (2022) and have been awarded to PEFs through SMU LSCs.

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- b) 92 additional Bridge-Program turn-key projects are currently being prescreened. It is anticipated that these projects will be scoped with PEFs in the next few months. Limited re-engagement of firms previously awarded projects under the initial 40 projects noted above will occur.
  - e) An additional 19 turn-key bridge projects will be prescreened, scoped and awarded under a \$25E6 Federal Build Grant, currently in the FHWA application process. These projects will begin being awarded in advance of the anticipated December application approval. The projects will be awarded in groups by Division with an anticipated 2020 Let. These bridges will not be SD or FO, rather they could be Posted bridges that are not currently programmed for replacement.
  - d) The Project Management Teams are managing the I, R & U turn-key bridge projects. SMU continues to be involved with technical support on these projects. The majority of structures work will be included in the turn-key contracts administered by the PMT's. In some cases, SMU will decide to keep these projects in-house or award the structure's portion of the work to PEFs via SMU LSCs.
  - e) It was noted regarding PEF performance that particular attention is given to initiative, with the Department requesting firms be proactive in obtaining information they need to move their projects forward. It was noted that the NCDOT Staff Directory is not always current and PEFs were encouraged to be persistent in tracking down the Department-side contacts needed to address project needs.
  - f) PEFs were also encouraged to ensure early coordination on utility considerations with turn-key projects in an effort to minimize utility issues causing project delays.
- 5) Technical Discussion
- a) Gichuru gave an update on the Inspection Manual and Repair Manual, noting that the Inspection Manual is being addressed first and that it is essentially a total rewrite from the initial form. Some items to be addressed in the Inspection Manual will be released in Policy Memo form initially, such as direction on critical findings and priority maintenance. The Inspection Manual will have four to six chapters and will be configured to address the twenty-three FHWA inspection program metrics.
  - b) Brian gave an update on in-progress revisions to Chapters 9, 10 and 11 of the Structure Design Manual. It was noted that Chapters 9 and 10 are expected to be released in the next two months. In the Chapter 10 Figures, the tabulated splice

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lengths are being revised to fully conform to AASHTO and it was noted that Class C splice tables would be removed, retaining only Classes A and B. Chapter 11 updates have not yet been reviewed, but it was noted to expect revisions to Chapter 11 Figures to accommodate deeper bulb tee girders being incorporated into the Department's prestressed girder standards. Specifically, the Florida DOT FIB girders will be adopted. Regarding the FIBs, the Department is currently reviewing diaphragm options for shallow sections and evaluating use of thickened end slabs as per FDOT practice. It was also noted that revisions to Chapter 12 on corrosion resistance are currently underway.

- c) It was noted 5 new policy memos have been released recently and that strip seal revisions are pending.

### 6) Other Topics

- a) Kevin reported that the engineering development group is investigating concerns with use of buildups on precast piles in the splash zone. In the interim, firms are asked to check in with SMU if pile buildup is located within 5 feet of the waterline.
- b) Brian reported that a potential outcome of the upcoming crash testing of two-bar metal rails to assess MASH compliance could be downgrading of the rail from a TL-3 (55mph) to TL-2 (45 mph) status due to potential for the metal rail to separate upon impact and impale the vehicle.

### 7) New ACEC Committee Members:

- a) Jennifer McRoy
- b) Sam Al-Jamal

### 8) Next Meeting: November 5, 2018 at 10:30am.

Meeting adjourned approximately 11:50 am.

# **LEGISLATIVE**



**YOU'RE INVITED!**

**Join Hosts Sam Ravenel and Tony Withers for a Reception**

SUPPORTING

**Rep. Scott Stone, P.E.**

NORTH CAROLINA HOUSE OF REPRESENTATIVES, DISTRICT 105

**Wednesday, September 5, 2018**

**6:00pm – 7:30pm**

**Caffé Luna**

**136 E Hargett Street**

**Downtown Raleigh, NC 27601**

**Chair: \$5,200 Host: \$2,500 Friend: \$1,000 Individual: \$500  
Guest Attendance: \$50**

Food and drinks will be provided.

Please RSVP to Kristine at (704) 412-7855 or [kristine@kzrllc.com](mailto:kristine@kzrllc.com).

Please make checks payable to “Committee to Elect Scott Stone” or contribute online at:

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## ***Senators***

***Bill Rabon and Kathy Harrington***

***Tuesday, September 25, 2018***

**6:00 pm – 7:30 pm**

***18 Seaboard***

***18 Seaboard Ave, Raleigh NC 27604***

***Contributions of Equal Amount to EACH Committee are requested in the following amounts:***

Host \$1,000 EACH (\$2,000 Total)  
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***For Further Information or to RSVP Please Contact:***

RSVP: [marissa@ncstatesenate.com](mailto:marissa@ncstatesenate.com) (919) 601-9016

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