

**GPTQ/GAPA/GDOT Asphalt Committee**  
**August 23, 2007**  
**Meeting minutes**

**Meeting held at Macon Area Engineers Auditorium at 10am, August 23, 2007.**  
**Attendees listed in Appendix A.**

- **Review of Quality Control Testing of Asphaltic Concrete**

Results of Plant inspections carried out over the beginning of the year were discussed. (See Appendix B). The main areas of concern include duplicate random number sheets and master and interlock lime checks. The DOT noted that they would be emphasizing these areas in their winter training and encouraged the Contractors to discuss with their QCTs also.

The DOT proposed a new draft form for technicians to sign before they would be certified. (See appendix B)The Georgia APA will review and report back on their recommendations for the draft letter.

- **Review of Presentations for GPTQ Conference**

GPTQ will be held December 5-7, 2007 in Athens, Georgia. The draft GPTQ program was handed out (see Appendix B). The main asphalt sessions are Thursday 2:30pm-3:30pm (History and Future of Asphalt) and Thursday 3:45pm to 4:45pm (Crumb Rubber and Micro-milling). A third session was discussed that would cover 'Real time QC at the Plant and on the Road'. Roger and Georgene will take this back to the GPTQ program committee to see if the Friday 9:35 am-10:30am session is still open.

- **Discussion of Topics for Annual Quality Asphalt Pavement Conference**

Last year the World of Asphalt was held in Atlanta, therefore the Annual conference was combined with the WOA. Roger Dill suggested that we may want to consider a Regional conference like the one scheduled in Texas on HMA energy and recycling. NAPA (Roger Sandburg and Dave Newcombe) have said they would participate. Logistically we would not be able to have the session until the Fall, and the concern was raised with conflicting with SEAPUG which is held each year around November. The following ideas for a theme were considered: Energy and Recycling, Warm Mix Asphalt.

- **Discussion on Results of items previously addressed.**

An update was provided by Wayne Marshall and Sheila Hines on the micro-milling and the crumb rubber projects. The pavers are catching the milling machines so they could use more time, but the smoothness readings are in the 500s. David Crim from GDOT Maintenance noted that they are very interested in the micro-milling process and see a benefit for the State. Wayne noted that they were interested in trying the crumb rubber in intersections and David also expressed interest in trying this. Spring Street at US 129 was mentioned as a possible location.

Another item previously discussed was on the need for milling to be included in some resurfacing projects. David Crim noted that normally Maintenance just set up resurfacing but that he would have a discussion of milling included in the Maintenance PACES training coming up shortly.

Sheila Hines provided an update on the Trackless Tack project. Blacklidge is looking for at least 5 projects to demonstrate the process and product. The Contractors are encouraged to contact them if they are interested. As part of this discussion using emulsion for tack instead of AC was also brought up again by David Moellering. Ronald Collins briefed the group on the history of Georgia's restriction on emulsions and the status of the NCHRP project on tack that is scheduled to be complete early next year. As noted last meeting, the DOT will disseminate copies of the report after it is completed and published.

The Equipment Task Force reported that 2 extendable screeds had been approved and they were looking at more equipment. A discussion on the need to continue to evaluate this type of equipment piece by piece was held. The Equipment Task Force was asked to meet again and see if they could identify generic criteria that could be used for approval of extendable screeds.

- **Discussion of the industry's involvement in co-sponsoring (with GDOT) the future Georgia's asphalt research projects to be conducted by Georgia's colleges and universities.**

Georgene Geary reviewed the proposal to use Georgia universities for asphalt research, which would benefit GDOT, industry, and Georgia as a whole. Currently the direction is to establish over time an ability to do asphalt liquid testing and research at Georgia Southern University (GSU) in Statesboro and asphalt mixture testing and research at Southern Polytechnic State University in Marietta. While allowing GDOT to spend research dollars in state, it will also allow Georgia students to experience real asphalt testing and research, skills they can use in the industry after they graduate. One of the biggest challenges facing the schools is the cost of the testing equipment. The industry was asked that if they had any working equipment that they were not using to consider donating it to one of the Universities. David Moellering reported that the Georgia APA executive Board had discussed the proposal and they were interested. They are scheduling a meeting with GSU in the near future.

- **Discuss the proposed changes of GSP-21**

Sheila Hines and Al Casteel covered the proposed changes in GSP-21 (See Appendix B). Most of the changes were minor. All were in favor of making the changes without the need to send through the GPTQ process.

-Meeting was adjourned at 12:05 pm.

**Upcoming conferences/Training opportunities:**

<p>QCT Level 2 Forest Park October 15-16 2007</p> <p>QCT Level 2 Macon Area Office November 12-13 2007</p>	<p>SEAPUG 2007 Crowne Plaza Riverwalk San Antonio, Texas November 12-15, 2007</p>	<p>GPTQ 2007 Workshop Athens, GA December 5-7, 2007</p>
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# GPTQ - GAPA - GDOT

## SIGN-IN SHEET

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## APPLICATION FOR GDOT MATERIALS TECHNICIAN CERTIFICATION

Materials testing will be performed by trained and qualified technicians/inspectors. A trained and qualified technician/inspector is defined as a person that holds a current valid certification through the respective Materials Certification Program. Technicians/inspectors and other Department personnel conducting acceptance tests not covered by a Materials Certification Program will perform testing in accordance with general guidance from the appropriate responsible District or Central Office Program Manager. This is to affirm that

\_\_\_\_\_ (Technician's Name), hereinafter "Technician," desires to be certified by the GDOT as a(an) \_\_\_\_\_ (Name of Certification desired).

By making this Application, Technician acknowledges and agrees that Certification carries inherent rights and responsibilities. The rights include being exclusively sanctioned, along with others so certified by GDOT, to perform sampling, testing, and reporting of test results for quality acceptance, and/or quality control and/or quality assurance programs. The responsibilities include performing and reporting tests with the accuracy and precision expected of the Technician in accordance with the required test procedures. By signing this Application, Technician agrees to strive to maintain compliance with all rules, regulations, specifications, industry standards, procedures, and policies, applicable to any work performed under the Certification. A violation of the above may result in a suspension or revocation of the rights and responsibilities conferred on the Technician. Revocation or suspension of one Certification may be considered a revocation or suspension of all Certifications held by the Technician. Further, any suspension or revocation of Technician's Certification in any other jurisdiction may result in the taking the same or other action, against Technician's Certification in Georgia.

By signing below, Technician also affirms that he/she is aware that both State and Federal laws may govern construction projects in Georgia, including Title 18, United States Code, Section 1020, that states, in pertinent part, that anyone making falsifications on Federal-aid projects,

**"Shall be fined not more than \$10,000 or imprisoned not more than five years, or both."**

I, \_\_\_\_\_ (Print Name), affirm that I have read and fully understand the foregoing "APPLICATION FOR GDOT MATERIALS TECHNICIAN CERTIFICATION," and I agree to be bound by these terms.

\_\_\_\_\_  
Technician's Signature

\_\_\_\_\_  
Date

## GSP 21

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### A. General Description

This procedure governs the sampling procedures for contractor acceptance testing of hot mix asphaltic concrete.

**The sampling testing, and inspection duties described herein are to be performed by a Georgia Department of Transportation Certified Contractor QCT.**

#### 1. Sampling

- a. Randomly select samples from within Sublots of 500 tons (500 Mg) per mix type. Use the same procedure in situations where more than one mix is produced or mix is produced for different projects within the same working day.
- b. An Acceptance Lot consists of the amount of each type of asphaltic concrete mixture produced and placed in one construction day or at least 500 tons (500 Mg). If less than 500 tons (500 Mg) is produced per mixture type, it may be incorporated into the next day's production for Lot determination. In this case, use the same mix-sampling schedule as if the mix had been produced all in one operation.
- c. Sublots may be increased to 750 tons (750 Mg) if approved by both the District Testing Management Operations Supervisor and the Area Bituminous Technical Services Engineer. To be considered for use of expanded sublots, the contractor must have produced at least 2000 tons (2000 Mg) per day for three consecutive working days. Approval for increased subplot sizes may be rescinded upon agreement by both the District Testing Management Operations Supervisor and the Area Bituminous Technical Services Engineer any time the contractor fails to produce at least 2000 tons (2000 Mg) for any of the three days within a consecutive three day work period.
- d. Sample the mix from the truck or roadway and quarter it according to [GSP 15](#). The appropriate sample size required is prescribed in [GDT 83](#) or [GDT 125](#). When roadway cores are to be obtained or required for mix acceptance samples, take these cores according to [GDT 73](#). **The coring operation will be supervised by a GDOT representative.**
- e. If the size of the sample obtained is too small, the opposite quarter should be checked for size. If the opposite quarter is also too small, the next available truck should be sampled, with care taken to obtain a sample that meets the minimum size required. It should be documented in the plant diary as to why the random load was not sampled. During the quartering process of Hot Mix samples, the opposite quarters from the acceptance test specimen shall be labeled by the QCT and retained for Department comparison testing. In addition, label the remaining material removed from the total sample and retain it for possible Referee testing by the Department. A copy of the completed TM 140 or TM159.5 shall be placed with the sample.

#### References:

[GSP 15](#) (Sampling Procedures For Asphalt Concrete Mixtures)

[GDT 73](#) (Method of Random Selection And Acceptance Testing of Asphaltic Concrete).

DOT 163 (Asphaltic Concrete Plant Sampling Report).

Sampling Report and Random Number Selection Examples.

[Subsection 400.3.06](#)

**Note:** All asphaltic concrete hot mix samples of SMA/PEM/OGFC obtained by QCT's for Comparison and Referee testing shall be placed in a hot melt box (hot or cooled), or samples may be placed in a cloth or plastic bag after material has cooled. These sampling methods will help to eliminate the loss of liquid Asphalt Cement. (Do not use metal cans or place hot asphaltic concrete in cloth or plastic bags when sampling SMA/PEM/OGFC mixes.)

**Note:** It will be the responsibility of the QCT Manager or QCT Technician to inform the Testing Management Operations Supervisor and Technical Service Engineer 24 hours prior to starting production if plant operations have been discontinued for more than seven calendar days.

## 2. Mixture Temperature

- a. Take the mix temperature when extractions are obtained and also at other times as necessary to maintain uniform and specification temperatures. If problems exist, take one per load until problem has been corrected. Take the temperature on OGFC and PEM mixes at a frequency of at least one per hour.
- b. The QCT shall take the temperature of the mixture and record the results on the load ticket each time a sample is taken. The respective load tickets shall also be signed by the QCT for each load from which a sample or temperature check is taken.
- c. Perform asphalt thermometer calibration at least once per week or at increased intervals as necessary to assure accuracy. Document calibrations in the plant diary.

Temperature Tolerance =  $\pm 20$  °F ( $\pm 11$  °C) of the Job Mix Formula (JMF).

Reference: [Subsection 400.2.01.A](#)

## 3. Stripping Tests

Stripping tests will only be required on Open Graded Friction Course (OGFC) and Porous European Mix (PEM) for every sample obtained.

Reference: [GDT 56](#) (Test Method For Heat Stable Anti-Strip Additive)

## 4. Extractions

- a. Determine the liquid asphalt content either by the extraction or ignition method. Sieve the remaining aggregate to determine gradation.
- b. Properly label the extracted aggregate, ensure that it is stored in an approved container and secured in a **protected and enclosed environment**. If samples meet a 1.00 pay factor and are not procured by the Department within three working days, they may be discarded. **If there is less than a 1.00 pay factor, the sample must be saved for 7 working days before being discarded.**
- c. Perform these procedures at the prescribed frequency in accordance with [GDT 83](#) or [GDT 125](#), [GDT 38](#) and [Subsection 400.3.06](#) of the Contract. Complete acceptance test results on the same day samples are obtained and entered on the extraction worksheet and the DOT Form 159-5. Enter results for projects not requiring compactions into the Plant Computer and up-load daily to the DOT data collection system. Enter results for projects that require compaction tests into the plant computer and up-load the day the compaction test results are received. If compaction test results are not received within 2 days, notify the Testing Management Operations Supervisor. In the event the DOT data collection system is unavailable or error messages are given, FAX a printout of the results to the Testing Management Operations Supervisor within one working day.

Notes: Any test out of [Section 828](#) must be reported to TMOS and Bituminous TSE immediately and documented.

References: [GDT 38](#) (Method of Test for Mechanical Analysis of Extracted Aggregate)  
[GDT 83](#) (Method of Test for Extraction of Bitumen from Paving Mixtures using the Vacuum Extractor)  
[GDT 125](#) (Method of Test for Determining AC Content by Ignition)  
[Subsection 400.3.06.A.3.b.3](#)  
OMR-TM-140 (Extraction Analysis Worksheet)  
DOT 159-5 (Asphaltic Concrete Lot Report)  
Extraction Worksheet Example  
Extraction Analysis Sieve Sizes for Each Mix  
Asphalt Extraction Handout

## 5. Lot Tonnage

Enter all information requested on the Daily production status Sheet on a daily basis. Give the completed sheet to the TMOS no later than two working days after the end of the respective month.

Reference: Daily Production Status Sheet.

## 6. Haul Vehicle Inspection

Inspect haul vehicles prior to loading for proper tarps, strapping, insulation, and hole for taking temperature. Inspect vehicle beds for evidence of diesel fuel, or un-approved releasing agent, loose, foreign material and asphalt build-up. When any of these items are found to be in noncompliance with the specifications, make corrections before haul vehicle is allowed to transport material.

References: [Subsection 400.2.01.A](#).

## 7. Lime Checks

- a. Make lime checks daily according to lime check procedures posted at each plant for type of system. Record the calculations and test results of these in the Plant Diary. Place the percent lime on DOT 159-5.
  - Tolerance:** Daily plus or minus 10% of JMF requirement.
  - Semi-weekly (Volumetric System)-** plus or minus 10% of weighed volume of lime compared to target weight of lime.
  - Semi-weekly (Weigh Pod System)-** plus or minus 2% of weights.
- b. Check weight systems by utilizing test weights at least twice per week (7 days) or at increased intervals as needed to maintain accurate calibration. Record the results of these checks and the calculations in the plant diary.
- c. Check volumetric systems by weight and record in diary at least twice per week.

- d. Check lime interlock systems according to the posted procedure or once per month to insure plant operations will interrupt mixture production if hydrated lime introduction fails. Record the actual time it takes for systems to interrupt mixture production in the plant diary.

References: [Subsection 400.3.02.6.c](#)

## 8. Rap Requirements

- a. Take an Abson Recovery Sample on all asphaltic concrete mixtures that contain **25% or more RAP**. Take a sample at the beginning of construction for each affected mix. Thereafter, use a sampling frequency of one sample per week for verification testing by DSR for viscosity of recovered AC.
- b. Samples may be taken at the same time extraction samples are taken from trucks. Take samples with a clean scoop, trowel, or spoon and deposit into a 0.5 gallon (2 L) tin can. Seal the can. Properly identify the samples and submit them along with the accompanying completed report to the appropriate DOT Lab.

References: [Section 402](#)

## 9. A.C. Samples

- a. Take liquid asphalt samples and submit them to the Central or Branch Lab for testing.
- b. Obtain samples from the AC storage tank sample valve after allowing approximately two (2) quarts to run off. Obtain samples in two **(2) 1-pint (one .5 liter), tin** cans. If liquid overruns can, discard and obtain another sample.
- c. Frequency
  - **Start-up Samples** = When plant has been down for more than seven (7) calendar days, obtain results prior to plant operation beginning.
  - **Quality Assurance AC Samples Interstate projects** = Two (2) per week.
  - **Quality Assurance AC Samples Non-Interstate projects** = One (1) per week.

References: [GSP 10 \(Sampling Procedure for Bituminous Material\)](#)  
[DOT 170 \(Sample Card for all Materials\)](#)  
[Sample of completed DOT 170](#)

**Note: Obtain Quality Assurance AC samples with a GDOT Testing Management Technician present.**

Notes: **All contractors will be required to submit start-up samples to the Central or Branch Lab 24 hours prior to starting production. When production is scheduled to begin on a weekend, state holiday or the day after a state holiday, submit samples 3 to 4 days prior to start of production. Production will not be allowed to start until test results are complete and meet the specification requirements for liquid asphalt.**

**The start-up sampling requirement can be waived by the State Bituminous Construction Engineer in extenuating circumstances on all grades of liquid asphalt cement except PG 76-22, if mix is produced for private work during this time and can be verified with the bill of lading that the material is fresh and of the grade intended for a state project.**

**If a failing AC sample is obtained, ensure that a representative of the Department is present when the follow-up sample is obtained.**

## 10. Other Sampling Requirements

- a. Provide all sample containers, extractants, forms, diaries and other supplies. These items are subject to the approval of the Engineer.
- b. The following are materials that the Contractor's QCT will be required to sample and submit to the appropriate DOT laboratory, as directed:
  - 1) Sampling mix for LWT testing.
  - 2) Sampling mix for field verification of mix design.
  - 3) Sampling of miscellaneous materials used in the mix.

## 11. Interstate Projects Only

- a. Sampling and fabrication of HMA specimens for field verification of mix designs:
  - 1) Fabricate one set (two specimens) of samples from the same portion of mix as taken for asphalt content and gradation.
  - 2) Prepare the specimens using the gyratory compactor at the N Design Level Specified for the mixtures. Compact the mixtures at the Job Mix Formula temperature. Provide one set of specimens for each mix type per Lot within the first two days of production and one set every week, thereafter. In addition, prepare one set during the first Lot after a change in the Job Mix Formula.
- b. Conduct testing for AASHTO T-209 to determine the maximum specific gravity of the mixture by testing one sample for each specimen taken for gyratory compactor described above. Determine the mix density and percent air voids of each gyratory compactor specimen described above by using the average result of the two AASHTO T-209 samples for each set of specimen compacted.
- c. Submit an additional 12 gallons of mix to the Branch Laboratory for APA, T-209 and GDT-66 testing along with the set of gyrated samples.
- d. When mix problems constitute a Job Mix Formula adjustment, obtain approval for the changes from the Technical Services Engineer. Upon approval, fabricate one set (two specimens) for gyration at N design and two samples of mix for ASSHTO T-209, and submit an additional 12 gallons of mix to the Branch Laboratory for other required testing with the set of gyrated samples. Submit these samples to the Branch Laboratory.

Note: Supply a gyratory compactor, including a calibration kit, electronic balance with a weighing capacity of 12,000 grams, asphalt ignition oven and all T-209 test equipment in the field laboratory as specified in [Section 152](#) of the contract on all Interstate projects mainline paving only.

12. Non-Interstate Projects Only (No Gyratory Compactor Required)

- a. Sampling and fabrication of HMA specimens for field verification of mix designs:
- 1) Sampling and fabrication of HMA specimens for field verification will only be required when a new Mix design is submitted or a Job Mix Formula change is requested.
  - 2) For the first day of production or after a JMF change, submit material to the lab for verification of mix design.
  - 3) Submit Fifteen (15) 1-gallon (4 liter) cans of mix to the branch laboratory for fabrication of one set (two specimens) for gyration at N design, six specimens for LWT, one complete set of pills for GDT-66 and two samples for AASHTO T-209.

**Note: For all plant produced mix design verifications obtain the mix from the same load as the acceptance sample. Record the sample tests results, mix ID number and JMF requirements on the back of the sample card. Samples must be within tolerance established in Section 828**

**13. Plant Inspection Duties**

Perform the inspection duties listed below at the designated frequency, document on the OMR-TM-143 form, and submit to the respective TMOS.

- a) Visually observe cold feed bins and mechanical condition of each.
- b) Visually inspect stockpiles for proper construction, segregation, and contamination.
- c) Visually observe dryer, dust collection system, and bag house.
- d) Visually observe asphalt storage system (unloading of tanker).
- e) Visually inspect mixer on batch type plants and discharge gate on all type plants.
- f) Visually inspect mix for segregation.
- g) Visually inspect haul vehicles for proper covers, beds, and approved releasing agents.
- h) Visually inspect lime systems.
- i) Check A.C. and aggregate scales for accuracy and enter results in plant diary.

**Reference: OMR-TM-143 (Asphalt Plant Check List)**

## 14. Plant Diary

- a. The plant diary is a legal document. Ensure that it remains at each plant and is properly filled out, daily. All entries are to be neat and legible.
- b. Use preprinted Plant Diaries and include, as a minimum, the following information, to be entered on a daily basis.

Entries shall include, but are not limited to:

- 1) Project number or numbers
- 2) Date and weather conditions
- 3) Contractor's Representative (specify Q.C.)
- 4) Type of mix
- 5) Tons
- 6) Lot number
- 7) Mix I.D. number (from JMF)
- 8) CPW checks (Furnished by DOT personnel)
- 9) AC sample, Releasing Agent and Lime Samples including any samples taken for Lab testing
- 10) Thermometer calibration
- 11) Daily and Semi-weekly lime check calculations
- 12) Any instructions given or received
- 13) Any DOT visitors
- 14) Any activities pertaining to State work.
- 15) Signature and title

## 15. Computer

**In the event the Contractor's computer system is inoperable, operations may be allowed to continue for a maximum of three working days by providing hand written test reports to the TMOS on a daily basis.**

- a. Enter all DOT 159-5 test data into the Plant Computer and upload daily to the DOT computer system as described in [Section 4.c](#), above. Each plant must keep a copy of all acceptance tests in a file separated by Contract ID numbers and sub files for each Project listed per contract. Test data is to be backed up on electronic media, which shall remain at each plant site secured from dust or other environmental hazards. Keep a separate disk or CD for each project and ensure it becomes part of the project record. Place a copy of all completed 159-5's, work sheets, random number reports, and compaction results furnished by GDOT, in field lab project files daily for future reference. Ensure that all files are accessible to GDOT representatives at all times

- b. At each plant provide an internet service provider connection and an e-mail address for exchanging electronic correspondence with GDOT.
- c. In accordance with [SOP 27](#), provide an individual PC or laptop computer at each plant. Ensure that this computer remains at the plant at all times.
- d. Ensure that each plant has a computer and accessories meeting the following requirements and as specified in [Section 152](#) of the contract,
  - 1) Minimum Requirements/Preferred:



















For optimal performance, these are the recommended system requirements for installing and running the Field Data Collection System applications:
















    - Computer: IBM PC or compatible
    - Software: Windows 98 - Preferred: Windows 2000 or Windows® XP
    - Processor: Intel Pentium III or better (above 500HZ) - Preferred: 2.5GZ.
    - RAM: 256MB - Preferred: 512MB or better
    - Hard Disk 10 GB or better with 500 MB of free space
    - Pointing Device: Mouse or other Windows-compatible pointing device
    - Floppy Disk Drive: 3.5-inch 1.44 MB Floppy disk drive
    - Multimedia: CD-ROM drive
    - Display: Super VGA (1024x768 pixels)
    - Printer: Windows-compatible laser or ink jet printer
    - Internet: Dial up OK for uploads but slow for download installation – Preferred: DSL or Cable
    - Browser: IE5 or better – Preferred: IE6

## 16. Control Of Asphaltic Concrete Mixtures

- a. Designate a Level II QCT Manager to be responsible for the daily quality control operations within his organization and held accountable for the action of all assigned QCTs as specified in contract. The Quality Control Manager will be responsible of ensuring that Quality Control Technicians do not simultaneously perform QCT and Plant Operator Duties.
- b. The designated Level II - QCT manager will be responsible to control the Asphaltic Concrete mixtures produced for GADOT Projects. The mixture control tolerances from an approved Job Mix Formula are written in [Section 828](#) and mixture acceptance tolerances are as written in [Section 400](#) of the governing GDOT Specifications for the respective Project.

**References:** [GSP 21](#) (Sampling Procedures for Contractors)  
[GDTs](#) (Sampling and Testing Manual or Study Guide)  
[Section 828](#) (Hot Mix Asphaltic Concrete Mixtures)  
[Section 400](#) (Hot Mix Asphaltic Concrete Construction)

	Mahler 600	Masters 200	K/L 120	Q- 80	R-80	F/G – 60
<b>Session A</b> Thursday 1:15 – 2:15	<b>VE SOLUTIONS</b>   Greg	<b>STRUCK BY ALLIANCE</b>   Joe/Greg	<b>NEPA UPDATES</b>   JH/ Gus	<b>UPCOMING BRIDGE PROJECTS AND POLICY CHANGES</b>   JH	<b>WHATS NEW IN GEORGIA RESEARCH</b>   Georgene	<b>WALK THIS WAY</b>   Gus
<b>Session B</b> Thursday 2:30 – 3:30	<b>CONTEXT SENSITIVE DESIGN SOLUTIONS</b>   Rick	<b>STRATEGIC HIGHWAY SAFETY PLAN</b>   Lillian	<b>NEPA 101</b>   JH	<b>BRIDGE DESIGN AND CONSTRUCTION PROBLEMS</b>   Gus	<b>HISTORY AND FUTURE OF ASPHALT</b>   Roger/Georgene	<b>NEW DBE GOALS</b>   Lillian
<b>Session C</b> Thursday 3:45 – 4:45		<b>MOBILITY RULE UPDATE</b>   Joe/Gus	<b>EROSION AND SEDIMENTATION CONTROL</b>   JH	<b>ACCELERATED BRIDGE CONSTRUCTION USING PREFABRICATION</b>   JL/ Gus	<b>CRUMB RUBBER &amp; MICROMILLING</b>   Roger/Georgene	<b>CONTRACT ADMINISTRATION ELECTRONIC PROPOSALS</b>   Greg

	Mahler 600	Masters 200	K/L 120	Q- 80	R-80	F/G- 60
<b>Session D</b> Friday 8:30 – 9:25	<b>NEW UTILITY RULES AND REGULATIONS</b>   Joe	<b>FREIGHT/TRUCK LANES</b>   Gus	<b>NEPA SECTION 404</b>   JH	<b>PRECAST TOPIC</b>    JL	<b>CONSTRUCTION PRACTICES</b>   Joe	<b>DESIGNING NEW PCC PAVEMENT FOR ECONOMY &amp; LONGEVITY</b>   JL
<b>Session E</b> Friday 9:35 – 10:30	<b>PDP CHANGES</b>    Greg	<b>URBAN PARTNERSHIP/ MANAGED LANES</b>   Gus	<b>CREATIVE MITIGATION</b>    JH	<b>JACKING CONCRETE PIPES UNDER ROADWAY APPLICATIONS</b>   JL		<b>DESIGN &amp; LONGEVITY OF OLD PCC PAVEMENT</b>    J L