



Kay Ivey
Governor

ALABAMA DEPARTMENT OF TRANSPORTATION

Bureau of Research and Development
1409 Coliseum Boulevard, Montgomery, Alabama 36130-3050
Phone: (334) 353-6940 FAX: (334) 353-6950
Internet: <http://www.dot.state.al.us>



John R. Cooper
Transportation Director

March 14, 2025

Dr. Steven Taylor
Senior Vice President for Research and Economic Development
Auburn University
202 Samford Hall
Auburn University, AL 36849

Subject: Transportation Pooled Fund Project TPF-5(465)/ALDOT Research Project
931-934P,
"Consortium for Asphalt Pavement Research and Implementation (CAPRI)"
Letter of Direction – Revised/Updated (No. 6)

Dear Dr. Taylor:

This is your "Letter of Direction" to continue work on the above referenced pooled fund research project. This authorization to continue work is based upon the proposal that was approved by the Alabama Department of Transportation (ALDOT) under Supplemental Agreement No. #18-01317.1 with the National Center for Asphalt Technology. The supplemental agreement was approved by the Governor on November 16, 2020.

The researcher, also referred to as the "Principal Investigator (PI)", should adhere to the proposal and approved budget as his/her guide for conduct to execute the expected project deliverables. This office, with the recommendation of the Technical Advisory Committee (TAC), must approve any deviation(s) to the work plan/scope of work. Any deviation(s) from the proposal/work plan/scope of work must be requested in writing to the ALDOT, Bureau of Research and Development (ATTN.: Ms. Kidada C. Dixon, P.E., State Research and Development Engineer). The TAC, comprised of representatives from FHWA and participating states, was created to monitor the researcher's progress and to provide technical guidance when required or requested. The PI should occasionally meet with the TAC to update them on project progress and accomplishments. The TAC for this pooled fund study is as follows:

Ms. Kidada Dixon (dixonk@dot.state.al.us; (334) 353-6940) - Alabama DOT (*Lead State*)
Mr. Michael Stanford (Michael.stanford@state.co.us; (303) 398-6576) – Colorado DOT
Mr. David Mensching (David.mensching@dot.gov; (202) 493-3232) - FHWA
Ms. Kristy Harris (kristy.harris@dot.gov; (334) 274-6361) – FHWA, ALDOT Liaison
Mr. Howard Moseley (howard.moseley@dot.state.fl.us; (352) 955-2905) – Florida DOT
Mr. Peter Wu (peter.wu@dot.ga.gov; (404) 608-4810) – Georgia DOT
Mr. Mung Fa Chung (mungfa.chung@hawaii.gov; (808) 832-3405) – Hawaii DOT
Mr. Mike Copeland (mike.copeland@itd.idaho.gov; (208) 334-8000) – Idaho DOT
Mr. Matt Beeson (mbeeson@indot.in.gov; (317) 522-9662) – Indiana DOT

Mr. Robert Semones (Robert.semones@ky.gov; (502) 564-3160) – Kentucky
Transportation Cabinet
Mr. Casey Nash (casey.b.nash@maine.gov; (207) 592-7372 – Maine DOT
Mr. Hao Yin (hao.m.yin@dot.state.ma.us; (814) 360-6988) – Massachusetts DOT
Mr. Kevin Kennedy (kennedyK@michigan.gov; (517) 749-9067) – Michigan DOT
Mr. Griffin Sullivan (wsullivan@mdot.ms.gov; (601) 359-1798) – Mississippi DOT
Mr. Jacob Graessle (jacob.graessle@modot.mo.gov; (573) 526-0371) – Missouri DOT
Mr. Robert Rea (Robert.rea@nebraska.gov; (402) 479-3163) – Nebraska DOT
Mr. Hao Yin (Hao.Uin@dot.nm.gov; (505) 412-9553) – New Mexico DOT
Mr. Thomas Kane (thomas.kane@dot.ny.gov; (518) 457-4445) – New York State DOT
Mr. Andrew Wargo (adwargo@ncdot.gov; (919) 329-4017) – North Carolina DOT
Mr. Tyler Wollmuth (twollmuth@nd.gov; (701) 328-2500) – North Dakota DOT
Mr. Eric Biehl (eric.biehl@dot.ohio.gov; (614) 275-1380) – Ohio DOT
Mr. David Vivanco (dvivanco@odot.org; (405) 522-4986) – Oklahoma DOT
Mr. Tim Ramirez (tramirez@pa.gov; (717) 787-4250) – Pennsylvania DOT
Mr. Miguel Estrella Colon (mEstrella@dtop.pr.gov; (787) 721-8787) – Puerto Rico
Highway Transportation Authority
Mr. Cliff Selkinghaus (selkinghcb@scdot.org; (803) 737-6700) – South Carolina DOT
Mr. Merrill Zwanka (zwankaME@scdot.org; (803) 737-6681) – South Carolina DOT
Ms. Heather Hall (Heather.Purd.Hall@tn.gov; (615) 350-4100) – Tennessee DOT
Mr. Travis Patton (travis.patton@txdot.gov; (512) 416-4727) – Texas DOT
Mr. Jomo McClean (jomo.mcclean@vi.gov; (678) 457-0292) – Virgin Islands
Mr. Robert Crandol (Robert.crandol@vdot.virginia.gov; (804) 786-0870) – Virginia DOT
Mr. Christopher Lundgreen (lundgrc@wsdot.wa.gov; (564) 669-1906) – Washington
DOT
Mr. Daniel Kopacz (Daniel.kopacz@dot.wi.gov; (608) 266-3581) – Wisconsin DOT

The project is a transportation pooled fund project and is funded with State Planning and Research (SP&R) funds. It has been assigned ALDOT Research Project 931-934P in our research series, and TPF-5(465) on the Transportation Pooled Fund (TPF) website (<https://www.pooledfund.org/>). **The performance period of this project will begin on March 1, 2021, and will end on December 31, 2027.** (Note: The project was originally scheduled to end on December 31, 2025. The NCAT Director requested a 2-year no cost time extension to complete special state-specific and additional projects. The extension was approved by Ms. Tricia Sergeson, FHWA Transportation Pooled Fund Manager on August 13, 2024. Information about these special projects is provided below.)

As of March 12, 2025, the amount of funds received from the participating states and FHWA total \$2,940,712.00. These funds are from the committed pledges (total \$2,723,500.00) made by the participating states and FHWA on the Transportation Pooled Fund (TPF) Website. These commitments were made to this project under TPF project number TPF-5(465) and are detailed in the attached document that was extracted from the TPF website. Updates on additional funds received by participating states and FHWA will be documented and updated in a report that will be provided to the PI assigned to this project. The funding report, detailing the funds received and processed by ALDOT as of March 12, 2025, is attached to this letter. Please note very carefully that no work should ever be performed for any partner under this project if their available funding balance is not enough to cover their costs. The Bureau of Research and Development will at any time, at your request, work with you in determining available funding. Your failure to adhere to this requirement could result in disapproval of invoices.

In addition to the original proposed work to be performed, there are 3 special projects to be carried out under this pooled fund study with federal funds allocated from pooled fund study TPF-5(478), "Demonstration to Advance New Pavement Technologies Pooled Fund". FHWA will participate and allocate \$250,000.00 of contract authority to support implementation for each of the following states: Alabama, Hawaii, North Dakota and Wisconsin. The funding report detailing the transfer of funds received and processed by ALDOT as of March 12, 2025 is attached. These funds will be for reimbursement at actual cost and the unspent portion will be returned to FHWA. Separate invoices must be submitted for work performed for record keeping purposes.

To ensure compliance with the Department and federal guidelines please adhere to the following requirements:

1. **Quarterly Progress Reports:** These reports summarize the work activities completed during the quarter and outlines the work activities planned for the upcoming quarter. Quarterly progress reports are to be submitted to the Department's Bureau of Research and Development via email to Ms. Kidada Dixon (dixonk@dot.state.al.us) and Mr. Andre' Jenkins (jenkinsa@dot.state.al.us) by the 30th of December, March, June and September until the work is completed and regardless of when the project began.
2. **Draft Final Report:** A draft final report is required to be submitted to Department's Bureau of Research and Development via email to Ms. Kidada Dixon (dixonk@dot.state.al.us) and Mr. Andre' Jenkins (jenkinsa@dot.state.al.us) at least 30 days before the completion of the project and must include implementation recommendations.

For pooled fund projects (led by ALDOT only), reports can be made available on the Transportation Pooled Fund Program's website (<https://www.pooledfund.org/>) to ensure and uphold the terms of the Transportation Pooled Fund Program. The terms for product distribution, and report and summary distribution are outlined in the TPF Procedures Manual which can be found on the TPF website or on the following link: <https://pooledfund.org//StaticDocuments/Reports/TPF%20Financial%20Procedures%20Manual%20March%202023%20-%20New.pdf>.

All publications by NCAT which are derived from the study will contain the following statement applicable in the credit sheet:

"The contents of this report reflect the views of the author(s) who is (are) responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of Alabama Department of Transportation or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation. Comments contained in this paper related to specific testing equipment and materials are not considered an endorsement of any commercial product(s) and/or service(s); no such endorsement is intended or implied."

3. **Final Report:** A final report will be requested by the Department's Bureau of Research and Development after the Draft Final Report is thoroughly reviewed by the TAC and any concerns identified are properly addressed. Distribution of all research project reports and request for publication or documentation is handled through the Department's Bureau of Research and Development.

Note: The publication statement above applies to the Final Report distribution.

4. Other Project Requests: All requests should be formally submitted by the PI directly to the Department's Bureau of Research and Development via email to Ms. Kidada Dixon (dixonk@dot.state.al.us) and Mr. Andre' Jenkins (jenkinsa@dot.state.al.us). All requests must be submitted in a timely manner to allow sufficient time for review, approval and processing. Requests made less than 30 days before the completion date of the project may be denied.
5. Federal Reporting: A research project template is required for each approved project in ALDOT's Research Work Program. The template is to be completed by the PI. The template is located on the ALDOT website under the 'Research Program' tab or can be accessed at <https://www.dot.state.al.us/programs/ResearchProgram.html>. Note: There are 2 parts to the research template that must be completed and submitted in a timely manner. Part I is due when the proposal is received by ALDOT for approval consideration (ALDOT will send a confirmation email for the proposal), and Part II is due by October 15th for the R&D's End of the Year Work Report. Instructions for completing both parts are provided on the website listed above.
6. Invoicing Requirements: Invoicing for all on-going ALDOT research projects is required to have at least one charge/invoice for a maximum cycle length of 5-months during the specified performance period of the project. ALDOT is not responsible for delayed invoice payments if the project is not invoiced at least once during a maximum cycle length of 5-months. This requirement is necessary for continuous project funding on participating projects. Please note very carefully that no work should ever be performed for any partner on this project if their available funding balance is not enough to cover their costs. The Department's Bureau of Research and Development will at any time, at your request, work with you in determining available funding. Your failure to adhere to this requirement could result in disapproval of invoices.

If you have any questions concerning this (updated) Letter of Direction, please contact me at (334) 353-6940 or via email at dixonk@dot.state.al.us.

Sincerely,



Kidada C. Dixon, P.E.

State Research and Development Engineer & ALDOT Research Advisory Committee Chair

KCD/

Attachments:

Contribution Spreadsheets as of March 12, 2025

TPF Website - Participating Partner(s) (Extracted) Commitment Summary - March 14, 2025

- c: Dr. Randy West, P.E. - National Center for Asphalt Technology (NCAT)
Ms. Anita Robinson - NCAT
Technical Advisory Committee (via TPF website)
Ms. Kristy Harris – FHWA, ALDOT Liaison (via email)
Ms. Shontrill Lowe – FHWA, Community Planner (via email)
Ms. Kadian Hollenquest – FHWA, Financial Manager (via email)
Mr. Andre' Jenkins, Sr. - ALDOT Funding Contact

Mr. Jimmy Carroll - ALDOT, Bureau of Office Engineer
Ms. Teresa Smith - ALDOT, Bureau of Office Engineer
File

TPF-5(465)/ALDOT Research Project 931-934P
"Consortium for Asphalt Pavement Research and Implementation (CAPRI)"

ALDOT Processed Funding Report

State	Contributions						Total
	FY2021	FY2022	FY2023	FY2024	FY2025		
Alabama DOT	\$ 50,000.00	\$ 52,000.00	-	-	-	\$	\$ 102,000.00
Colorado DOT	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$	\$ 50,000.00
FHWA	-	\$ 12,000.00	-	\$ 45,382.00	-	\$	\$ 57,382.00
Florida DOT	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	-	\$	\$ 40,000.00
Georgia DOT	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00	-	\$	\$ 50,000.00
Hawaii	-	\$ -	\$ 10,000.00	\$ 10,000.00	-	\$	\$ 20,000.00
Idaho DOT	\$ 50,000.00	-	-	-	-	\$	\$ 50,000.00
Indiana DOT	-	-	-	-	-	\$	-
Kentucky Transportation Cabinet	\$ 20,000.00	\$ 20,000.00	-	\$ 230,000.00	\$ 10,000.00	\$	\$ 280,000.00
Maine DOT	-	-	-	-	\$ 20,000.00	\$	\$ 20,000.00
Massachusetts DOT	-	-	-	-	-	\$	-
Michigan DOT	-	-	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$	\$ 30,000.00
Mississippi DOT	\$ 300,000.00	\$ 50,000.00	-	\$ 233,000.00	\$ 14,000.00	\$	\$ 597,000.00
Missouri DOT	\$ 14,000.00	\$ 14,000.00	\$ 14,000.00	\$ 14,000.00	\$ 14,000.00	\$	\$ 70,000.00
Nebraska DOT	-	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	-	\$	\$ 30,000.00
Nevada DOT	-	-	-	\$ 20,000.00	-	\$	\$ 20,000.00
New Mexico DOT	-	-	\$ 160,000.00	\$ 10,000.00	-	\$	\$ 170,000.00
New York State DOT	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$	\$ 50,000.00
North Carolina DOT	\$ 14,000.00	\$ 14,000.00	-	\$ 14,000.00	-	\$	\$ 42,000.00
North Dakota DOT	-	\$ 10,000.00	\$ 310,000.00	\$ 10,000.00	\$ 10,000.00	\$	\$ 340,000.00
Ohio DOT	\$ 10,000.00	\$ 10,000.00	\$ 14,000.00	\$ 14,000.00	-	\$	\$ 48,000.00
Oklahoma DOT	-	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00	-	\$	\$ 40,000.00
Pennsylvania DOT	\$ 18,000.00	\$ 18,000.00	\$ 18,000.00	-	-	\$	\$ 54,000.00
Puerto Rico Highway Authority	-	\$ 160,000.00	-	\$ 130,830.00	-	\$	\$ 290,830.00
South Carolina DOT	\$ 20,000.00	\$ 107,500.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$	\$ 187,500.00

TPF-5(465)/ALDOT Research Project 931-934P
"Consortium for Asphalt Pavement Research and Implementation (CAPRI)"

ALDOT Processed Funding Report

State	Contributions					
	FY2021	FY2022	FY2023	FY2024	FY2025	Total
Tennessee DOT	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	-	\$ 20,000.00	\$ 50,000.00
Texas DOT	-	-	\$ 30,000.00	\$ 10,000.00	-	\$ 40,000.00
Virgin Islands	-	-	-	\$ 100,000.00	-	\$ 100,000.00
Virginia DOT	-	-	\$ 28,000.00	\$ 14,000.00	-	\$ 42,000.00
Washington DOT	-	-	-	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00
Wisconsin DOT	\$ 10,000.00	\$ 20,000.00	-	\$ 20,000.00	-	\$ 50,000.00
Grand Total*	\$ 556,000.00	\$ 557,500.00	\$ 684,000.00	\$ 995,212.00	\$ 148,000.00	\$ 2,940,712.00

Notes: *The Grand Total noted above reflects the amount of funds received for the study as of 3/12/2025.
This table does not reflect any expenses charged for work performed.

TPF-5(465)/ALDOT Research Project 931-934P
"Consortium for Asphalt Pavement Research and Implementation (CAPRI)"

ALDOT Processed Special Projects Funding Report*

State	Special Project Name	Contribution	
		FY 2024	Total
Alabama DOT	Balanced Mixture Design Pilot and Field Sections	\$ 250,000.00	\$ 250,000.00
Hawaii DOT	Development of Balanced Mix Design	\$ 250,000.00	\$ 250,000.00
North Dakota DOT	Balanced Mixture Design Specification Development and Implementation	\$ 250,000.00	\$ 250,000.00
Wisconsin DOT	Balanced Mixture Design Pilot and Field Sections	\$ 250,000.00	\$ 250,000.00
Grand Total¹		\$ 1,000,000.00	\$ 1,000,000.00

Notes:

* FHWA federal participation funds were allocated from pooled fund study TPF-5(478), "Demonstration to Advance New Pavement Technologies Pooled Fund", for special projects to be conducted for the above listed states. These special projects will be carried out under pooled fund study TPF-5(465).

¹ The Grand Total noted above reflects the amount of funds received for the study as of 3/12/2025. This table does not reflect any expenses charged for work performed.

Separate invoices must be submitted for work performed to receive reimbursement at actual cost. Any unspent funds will be returned to FHWA at the end of the special project.

Consortium for Asphalt Pavement Research and Implementation (CAPRI)

General Information

Study Number: TPF-5(465)
Lead Organization: Alabama Department of Transportation
Solicitation Number: 1533
Partners: AL, CO, FHWA, FL, GADOT, HI, ID, IN, KY, MA, ME, MI, MO, MS, NC, ND, NE, NM, NV, NY, OH, OK, PADOT, PR, SC, TN, TX, VA, VIDPW, WA, WI
Status: Cleared by FHWA
Est. Completion Date:
Contract/Other Number:
Last Updated: Sep 11, 2024
Contract End Date: Dec 31, 2027

Financial Summary

Contract Amount:
Total Commitments Received: \$2,723,500.00
100% SP&R Approval:

Contact Information

Lead Study Contact(s): Kidada Dixon
dixonk@dot.state.al.us
Phone: 334.353.6940
FHWA Technical Liaison(s): David Mensching
david.mensching@dot.gov
Phone: 2024933232

Commitments by Organizations

Organization	Year	Commitments	Technical Contact Name	Funding Contact Name	Contact Number	Email Address
Alabama Department of Transportation	2021	\$10,000.00	Kidada Dixon	Kidada Dixon	334.353.6940	dixonk@dot.state.al.us
Alabama Department of Transportation	2022	\$23,000.00	Kidada Dixon	Kidada Dixon	334.353.6940	dixonk@dot.state.al.us
Alabama Department of Transportation	2023	\$23,000.00	Kidada Dixon	Kidada Dixon	334.353.6940	dixonk@dot.state.al.us
Alabama Department of Transportation	2024	\$23,000.00	Kidada Dixon	Kidada Dixon	334.353.6940	dixonk@dot.state.al.us
Alabama Department of Transportation	2025	\$23,000.00	Kidada Dixon	Kidada Dixon	334.353.6940	dixonk@dot.state.al.us
Colorado Department of Transportation	2021	\$10,000.00	Vincent Battista	Thien Tran	(303) 757-9522	thien.tran@state.co.us
Colorado Department of Transportation	2022	\$10,000.00	Vincent Battista	Thien Tran	(303) 757-9522	thien.tran@state.co.us
Colorado Department of Transportation	2023	\$10,000.00	Vincent Battista	Thien Tran	(303) 757-9522	thien.tran@state.co.us
Colorado Department of Transportation	2024	\$10,000.00	Vincent Battista	Thien Tran	(303) 757-9522	thien.tran@state.co.us

3.14.2025

Organization	Year	Commitments	Technical Contact Name	Funding Contact Name	Contact Number	Email Address
Colorado Department of Transportation	2025	\$10,000.00	Vincent Battista	Thien Tran	(303) 757-9522	thien.tran@state.co.us
Federal Highway Administration	2022	\$6,000.00	David Mensching	David Mensching	2024933232	david.mensching@dot.gov
Florida Department of Transportation	2021	\$10,000.00	Howard Moseley	Jennifer Clark	850-414-4614	jennifer.clark@dot.state.fl.us
Florida Department of Transportation	2022	\$10,000.00	Howard Moseley	Jennifer Clark	850-414-4614	jennifer.clark@dot.state.fl.us
Florida Department of Transportation	2023	\$10,000.00	Howard Moseley	Jennifer Clark	850-414-4614	jennifer.clark@dot.state.fl.us
Florida Department of Transportation	2024	\$10,000.00	Howard Moseley	Jennifer Clark	850-414-4614	jennifer.clark@dot.state.fl.us
Florida Department of Transportation	2025	\$10,000.00	Howard Moseley	Jennifer Clark	850-414-4614	jennifer.clark@dot.state.fl.us
Georgia Department of Transportation	2021	\$10,000.00	Peter Wu	Brennan Roney	404-347-0595	broney@dot.ga.gov
Georgia Department of Transportation	2022	\$10,000.00	Peter Wu	Brennan Roney	404-347-0595	broney@dot.ga.gov
Georgia Department of Transportation	2023	\$10,000.00	Peter Wu	Brennan Roney	404-347-0595	broney@dot.ga.gov
Georgia Department of Transportation	2024	\$10,000.00	Peter Wu	Brennan Roney	404-347-0595	broney@dot.ga.gov
Georgia Department of Transportation	2025	\$10,000.00	Peter Wu	Brennan Roney	404-347-0595	broney@dot.ga.gov
Hawaii Department of Transportation	2022	\$10,000.00	Mung Fa Chung	Christine Yamasaki	(808)587-2226	christine.yamasaki@hawaii.gov
Hawaii Department of Transportation	2023	\$10,000.00	Mung Fa Chung	Christine Yamasaki	(808)587-2226	christine.yamasaki@hawaii.gov
Hawaii Department of Transportation	2024	\$10,000.00	Mung Fa Chung	Christine Yamasaki	(808)587-2226	christine.yamasaki@hawaii.gov
Hawaii Department of Transportation	2025	\$10,000.00	Mung Fa Chung	Christine Yamasaki	(808)587-2226	christine.yamasaki@hawaii.gov
Idaho Department of Transportation	2021	\$50,000.00	Mike Copeland	Amanda Laib	208-334-8181	amanda.laib@itd.idaho.gov
Indiana Department of Transportation	2022	\$10,000.00	Matt Beeson	Tommy Nantung	765-463-1521 ext 248	tnantung@indot.in.gov
Indiana Department of Transportation	2023	\$10,000.00	Matt Beeson	Tommy Nantung	765-463-1521 ext 248	tnantung@indot.in.gov
Kentucky Transportation Cabinet	2021	\$10,000.00	Robert Semones	Jarrold Stanley	(502) 782-4090	jarrod.stanley@ky.gov
Kentucky Transportation Cabinet	2022	\$10,000.00	Robert Semones	Jarrold Stanley	(502) 782-4090	jarrod.stanley@ky.gov
Kentucky Transportation Cabinet	2023	\$10,000.00	Robert Semones	Jarrold Stanley	(502) 782-4090	jarrod.stanley@ky.gov
Kentucky Transportation Cabinet	2024	\$230,000.00	Robert Semones	Jarrold Stanley	(502) 782-4090	jarrod.stanley@ky.gov
Kentucky Transportation Cabinet	2025	\$10,000.00	Robert Semones	Jarrold Stanley	(502) 782-4090	jarrod.stanley@ky.gov
Maine Department of Transportation	2024	\$10,000.00	Casey Nash	Jeffrey Pulver		Jeffrey.Pulver@maine.gov
Maine Department of Transportation	2025	\$10,000.00	Casey Nash	Jeffrey Pulver		Jeffrey.Pulver@maine.gov
Massachusetts Department of Transportation	2025	\$50,000.00	Hao Yin	Hao Yin	814-360-6988	hao.m.yin@dot.state.ma.us

Organization	Year	Commitments	Technical Contact Name	Funding Contact Name	Contact Number	Email Address
Michigan Department of Transportation	2023	\$10,000.00	Michelle Miller	Andre' Clover	517-749-9001	clovera@michigan.gov
Michigan Department of Transportation	2024	\$10,000.00	Michelle Miller	Andre' Clover	517-749-9001	clovera@michigan.gov
Michigan Department of Transportation	2025	\$10,000.00	Michelle Miller	Andre' Clover	517-749-9001	clovera@michigan.gov
Mississippi Department of Transportation	2021	\$350,000.00	Griffin Sullivan	Robert Vance		RVance@mdot.ms.gov
Missouri Department of Transportation	2021	\$14,000.00	Jacob Graessle	Jennifer Harper	573-526-3636	Jennifer.Harper@modot.mo.gov
Missouri Department of Transportation	2022	\$14,000.00	Jacob Graessle	Jennifer Harper	573-526-3636	Jennifer.Harper@modot.mo.gov
Missouri Department of Transportation	2023	\$14,000.00	Jacob Graessle	Jennifer Harper	573-526-3636	Jennifer.Harper@modot.mo.gov
Missouri Department of Transportation	2024	\$14,000.00	Jacob Graessle	Jennifer Harper	573-526-3636	Jennifer.Harper@modot.mo.gov
Missouri Department of Transportation	2025	\$14,000.00	Jacob Graessle	Jennifer Harper	573-526-3636	Jennifer.Harper@modot.mo.gov
Nebraska Department of Transportation	2022	\$10,000.00	Robert Rea	Mark Fischer	(402) 479-3163	Mark.fischer@nebraska.gov
Nebraska Department of Transportation	2023	\$10,000.00	Robert Rea	Mark Fischer	(402) 479-3163	Mark.fischer@nebraska.gov
Nebraska Department of Transportation	2024	\$10,000.00	Robert Rea	Mark Fischer	(402) 479-3163	Mark.fischer@nebraska.gov
Nebraska Department of Transportation	2025	\$10,000.00	Robert Rea	Mark Fischer	(402) 479-3163	Mark.fischer@nebraska.gov
Nevada Department of Transportation	2024	\$20,000.00	Charlie Pan	Lucy Koury	(775) 888-7223	lkoury@dot.nv.gov
New Mexico Department of Transportation	2023	\$160,000.00	Can Chen	Angelo Armijo	(505)372-8757	Angelo.Armijo@dot.nm.gov
New Mexico Department of Transportation	2024	\$10,000.00	Can Chen	Angelo Armijo	(505)372-8757	Angelo.Armijo@dot.nm.gov
New York State Department of Transportation	2021	\$10,000.00	Thomas Kane	Gail Carpenter	518-457-8083	Gail.Carpenter@dot.ny.gov
New York State Department of Transportation	2022	\$10,000.00	Thomas Kane	Gail Carpenter	518-457-8083	Gail.Carpenter@dot.ny.gov
New York State Department of Transportation	2023	\$10,000.00	Thomas Kane	Gail Carpenter	518-457-8083	Gail.Carpenter@dot.ny.gov
New York State Department of Transportation	2024	\$10,000.00	Thomas Kane	Gail Carpenter	518-457-8083	Gail.Carpenter@dot.ny.gov
New York State Department of Transportation	2025	\$10,000.00	Thomas Kane	Gail Carpenter	518-457-8083	Gail.Carpenter@dot.ny.gov
North Carolina Department of Transportation	2021	\$14,000.00	Andrew Wargo	Curtis Bradley	919-707-6661	cbradley8@ncdot.gov
North Carolina Department of Transportation	2022	\$14,000.00	Andrew Wargo	Curtis Bradley	919-707-6661	cbradley8@ncdot.gov
North Carolina Department of Transportation	2023	\$14,000.00	Andrew Wargo	Curtis Bradley	919-707-6661	cbradley8@ncdot.gov
North Carolina Department of Transportation	2024	\$14,000.00	Andrew Wargo	Curtis Bradley	919-707-6661	cbradley8@ncdot.gov
North Carolina Department of Transportation	2025	\$14,000.00	Andrew Wargo	Curtis Bradley	919-707-6661	cbradley8@ncdot.gov
North Dakota Department of Transportation	2022	\$10,000.00	Tyler Wollmuth	TJ Murphy	701-328-6910	tjmurphy@nd.gov

Organization	Year	Commitments	Technical Contact Name	Funding Contact Name	Contact Number	Email Address
North Dakota Department of Transportation	2023	\$310,000.00	Tyler Wollmuth	TJ Murphy	701-328-6910	tjmurphy@nd.gov
North Dakota Department of Transportation	2024	\$10,000.00	Tyler Wollmuth	TJ Murphy	701-328-6910	tjmurphy@nd.gov
North Dakota Department of Transportation	2025	\$10,000.00	Tyler Wollmuth	TJ Murphy	701-328-6910	tjmurphy@nd.gov
Ohio Department of Transportation	2021	\$10,000.00	Eric Biehl	Jill Martindale	6146448173	jacquelin.martindale@dot.ohio.gov
Ohio Department of Transportation	2022	\$10,000.00	Eric Biehl	Jill Martindale	6146448173	jacquelin.martindale@dot.ohio.gov
Ohio Department of Transportation	2023	\$14,000.00	Eric Biehl	Jill Martindale	6146448173	jacquelin.martindale@dot.ohio.gov
Ohio Department of Transportation	2024	\$14,000.00	Eric Biehl	Jill Martindale	6146448173	jacquelin.martindale@dot.ohio.gov
Ohio Department of Transportation	2025	\$14,000.00	Eric Biehl	Jill Martindale	6146448173	jacquelin.martindale@dot.ohio.gov
Oklahoma Transportation	2022	\$10,000.00	David Vivanco	Beckie Lyons		blyons@odot.org
Oklahoma Transportation	2023	\$10,000.00	David Vivanco	Beckie Lyons		blyons@odot.org
Oklahoma Transportation	2024	\$20,000.00	David Vivanco	Beckie Lyons		blyons@odot.org
Oklahoma Transportation	2025	\$10,000.00	David Vivanco	Beckie Lyons		blyons@odot.org
Pennsylvania Department of Transportation	2021	\$18,000.00	Tim Ramirez	Evan Zeiders	717-787-8460	evzeiders@pa.gov
Pennsylvania Department of Transportation	2022	\$18,000.00	Tim Ramirez	Evan Zeiders	717-787-8460	evzeiders@pa.gov
Pennsylvania Department of Transportation	2023	\$18,000.00	Tim Ramirez	Evan Zeiders	717-787-8460	evzeiders@pa.gov
Puerto Rico Highway and Transportation Authority	2022	\$100,000.00	Miguel Estrella Colón	Miguel Estrella Colón		mEstrella@dttop.pr.gov
Puerto Rico Highway and Transportation Authority	2023	\$60,000.00	Miguel Estrella Colón	Miguel Estrella Colón		mEstrella@dttop.pr.gov
South Carolina Department of Transportation	2021	\$20,000.00	Merrill Zwanka	Terry Swygert	803-737-6691	SwygertTL@scdot.org
South Carolina Department of Transportation	2022	\$107,500.00	Merrill Zwanka	Terry Swygert	803-737-6691	SwygertTL@scdot.org
South Carolina Department of Transportation	2023	\$20,000.00	Merrill Zwanka	Terry Swygert	803-737-6691	SwygertTL@scdot.org
South Carolina Department of Transportation	2024	\$20,000.00	Merrill Zwanka	Terry Swygert	803-737-6691	SwygertTL@scdot.org
South Carolina Department of Transportation	2025	\$20,000.00	Merrill Zwanka	Terry Swygert	803-737-6691	SwygertTL@scdot.org
Tennessee Department of Transportation	2021	\$10,000.00	Heather Hall	Stacy Carter		stacy.carter@tn.gov
Tennessee Department of Transportation	2022	\$10,000.00	Heather Hall	Stacy Carter		stacy.carter@tn.gov
Tennessee Department of Transportation	2023	\$10,000.00	Heather Hall	Stacy Carter		stacy.carter@tn.gov
Tennessee Department of Transportation	2024	\$10,000.00	Heather Hall	Stacy Carter		stacy.carter@tn.gov
Tennessee Department of Transportation	2025	\$10,000.00	Heather Hall	Stacy Carter		stacy.carter@tn.gov
Texas Department of Transportation	2021	\$10,000.00	Travis Patton	Ned Mattila	512-416-4727	ned.mattila@txdot.gov
Texas Department of Transportation	2022	\$10,000.00	Travis Patton	Ned Mattila	512-416-4727	ned.mattila@txdot.gov

Organization	Year	Commitments	Technical Contact Name	Funding Contact Name	Contact Number	Email Address
Texas Department of Transportation	2023	\$10,000.00	Travis Patton	Ned Mattila	512-416-4727	ned.mattila@txdot.gov
Texas Department of Transportation	2024	\$10,000.00	Travis Patton	Ned Mattila	512-416-4727	ned.mattila@txdot.gov
Texas Department of Transportation	2025	\$10,000.00	Travis Patton	Ned Mattila	512-416-4727	ned.mattila@txdot.gov
U.S. Virgin Islands Department of Public Works	2024	\$100,000.00	Jomo McClean	Jomo McClean	340-776-4844	jomo.mcclean@dpw.vi.gov
U.S. Virgin Islands Department of Public Works	2025	\$50,000.00	Jomo McClean	Jomo McClean	340-776-4844	jomo.mcclean@dpw.vi.gov
Virginia Department of Transportation	2023	\$14,000.00	Angela Beyke	Bill Kelsh	434-293-1934	Bill.Kelsh@VDOT.Virginia.gov
Virginia Department of Transportation	2024	\$14,000.00	Angela Beyke	Bill Kelsh	434-293-1934	Bill.Kelsh@VDOT.Virginia.gov
Virginia Department of Transportation	2025	\$14,000.00	Angela Beyke	Bill Kelsh	434-293-1934	Bill.Kelsh@VDOT.Virginia.gov
Washington State Department of Transportation	2024	\$10,000.00	Christopher Lundgreen	Mustafa Mohamedali	360-704-6307	Mustafa.Mohamedali@wsdot.wa.gov
Washington State Department of Transportation	2025	\$10,000.00	Christopher Lundgreen	Mustafa Mohamedali	360-704-6307	Mustafa.Mohamedali@wsdot.wa.gov
Wisconsin Department of Transportation	2021	\$10,000.00	Daniel Kopacz	Evelyn Bromberg	608-267-7360	evelyn.bromberg@dot.wi.gov
Wisconsin Department of Transportation	2022	\$10,000.00	Daniel Kopacz	Evelyn Bromberg	608-267-7360	evelyn.bromberg@dot.wi.gov
Wisconsin Department of Transportation	2023	\$10,000.00	Daniel Kopacz	Evelyn Bromberg	608-267-7360	evelyn.bromberg@dot.wi.gov
Wisconsin Department of Transportation	2024	\$20,000.00	Daniel Kopacz	Evelyn Bromberg	608-267-7360	evelyn.bromberg@dot.wi.gov

Study Description

Study Description

As owners and operators of the nation's surface transportation infrastructure, state departments of transportation (DOTs) are striving to design and build longer lasting and more cost-effective asphalt pavements that meet a higher level of sustainability, safety and user satisfaction for the public. To achieve this goal, state DOTs continue to adopt innovative technologies and optimized practices for designing, constructing, and preserving asphalt pavements. The adopted innovative technologies and practices are often developed from the collaborative research efforts supported by the state DOTs, Federal Highway Administration (FHWA), and industry. To continue fostering the development of new technologies and practices, this pooled fund study will identify and address national priority research and implementation needs for asphalt pavements that state DOTs face today and in the future. CAPRI will operate as a voluntary consortium of flexible pavement stakeholders that is open to all state, local, and federal highway agencies, industry associations, individual companies, academic institutions and research organizations. The Alabama DOT will serve as the lead state and the National Center for Asphalt Technology (NCAT) at Auburn University will handle administrative duties for the project. Each participating entity may appoint one voting representative to CAPRI.

Objectives

The goals of CAPRI are to: • Provide technical guidance on current and evolving specifications for asphalt materials. • Develop asphalt pavement research needs. • Conduct small-scale studies to address knowledge gaps or explore new topics. • Foster the implementation of practical research findings to help improve the performance, sustainability, value, and safety of asphalt pavements. As a consortium of all asphalt pavement stakeholders, CAPRI will be a key resource to the AASHTO Committee on Materials and Pavements, state DOTs, FHWA, and industry.

Scope of Work

Activities related to the above goals will be developed through semi-annual meetings rotated among participating organizations. CAPRI meetings will serve as a forum to facilitate knowledge sharing among participants. Outcomes of CAPRI meetings will include technical guidance articles on high profile issues, and research need statements (RNSs) organized into a new National Asphalt Research Roadmap (NARR) that will be made public through a website managed and maintained by NCAT. Recognizing the existence of specialized topics within asphalt pavement engineering and the range of expertise that CAPRI participants will bring to the forum, CAPRI meetings will be organized into topics led by committees that focus on asphalt binders, asphalt mixtures, pavement design, construction, maintenance/rehabilitation, pavement-vehicle interaction, and other committees as the need arises in the future. More details about the CAPRI operation are provided in the full announcement. The activities and deliverables of CAPRI are as follows: • Organize semi-annual meetings that include presentations on research of national significance, discussions on implementation and technology transfer, and activities organized by the committees. • Identify issues with current asphalt-related standards and share potential solutions to help move standards forward to ultimately improve pavement performance. • Identify short-term and long-term research needs and strategically prioritize the needs so the most urgent and impactful opportunities are addressed first. • Develop research need

statements (RNSs) and identify the appropriate source(s) of funding for each project. Organized RNS into the National Asphalt Research Roadmap and publish it on the website. • Select and prioritize small-scale, exploratory, kick-off studies that can be funded directly by CAPRI to address gaps in the path to implementation, gather additional information to assess the magnitude of perceived problems, and/or explore new technologies. • Assist in the deployment of research findings by selecting and prioritizing activities such as conducting workshops, refining and shepherding of standards, demonstration project assistance, which can be funded through CAPRI or from other sources. • Publish progress reports that document the results of the entire project

Comments

The proposed project funding is \$300,000 per year (30 states x minimum \$10,000 per state) with a total of 1,500,000 for five years. The participation levels for state DOTs are as follows: • \$10,000 per year to support the pooled fund and one voting representative to attend semi-annual meetings. Agencies may have additional non-voting persons participate in the semi-annual meetings at an additional \$4,000 per person per year. • Agencies may contribute additional funds, beyond the base contribution, for other specific research, training, and implementation activities that meet their needs. These activities may be funded and overseen by individual states or a group of states that have the same needs.

Documents

Title	File/Link	Type	Private
Quarterly Report October - December 2024	CAPRI TPF-5(465) QPR Oct-Dec 2024.pdf	Progress Report	Public
Quarterly Report July - September 2024	CAPRI TPF-5(465) QPR Jul-Sep 2024.pdf	Progress Report	Public
Approval of No-Cost Time Extension Request	931-934P TPF-5(465).pdf	Progress Report	Public
Quarterly Report April - June 2024	CAPRI TPF-5(465) QPR Apr-Jun 2024.pdf	Progress Report	Public
Quarterly Report January - March 2024	CAPRI TPF-5(465) QPR Jan-Mar 2024.pdf	Progress Report	Public
TPF-5(465) ALDOT 931-934P LOD	TPF-5(465)_ALDOT 931-934P LOD_rev 03.14.2020.pdf	Other	Public
Quarterly Report October - December 2023	CAPRI TPF-5(465) QPR Oct-Dec 2023.pdf	Progress Report	Public
Quarterly Report July - September 2023	CAPRI TPF-5(465) QPR Jul-Sep 2023.pdf	Progress Report	Public
Quarterly Report April - June 2023	CAPRI TPF-5(465) QPR Apr-Jun 2023.pdf	Progress Report	Public
Quarterly Report October - December 2022	CAPRI TPF-5(465) QPR Oct-Dec 2022.pdf	Progress Report	Public
Quarterly Report Jan - March 2023	CAPRI TPF-5(465) QPR Jan-Mar 2023.pdf	Progress Report	Public
Quarterly Report July - September 2022	CAPRI TPF-5(465) QPR Jul-Sep 2022.pdf	Progress Report	Public
Quarterly Report April - June 2022	CAPRI TPF-5(465) QPR Apr-Jun 2022.pdf	Progress Report	Public
Quarterly Report January - March 2022	CAPRI TPF-5(465) QPR Jan-Mar 2022.pdf	Progress Report	Public
Quarterly Report October - December 2021	CAPRI TPF-5(465) QPR Oct-Dec 2021.pdf	Progress Report	Public
Quarterly Report July - September 2021	CAPRI TPF-5(465) QPR Jul-Sep 2021.pdf	Progress Report	Public
Quarterly Report April - June 2021	CAPRI TPF-5(465) QPR Apr-Jun 2021.pdf	Progress Report	Public
Quarterly Report January - March 2021	CAPRI TPF-5(465) QPR Jan-Mar 2021.pdf	Progress Report	Public
Acceptance Memo for TPF-5(465) 931-934P "CAPRI"	Acceptance Memo for TPF-5(465) 931-934P "CAPRI".pdf	Memorandum	Public

Solicitation Documents

Title	File/Link	Type	Private
Approved Waiver Memo	Approval of SPR Waiver Pooled Fund Solicitation#1533.signedpdf.pdf	Memorandum	Public
FHWA Approval Letter	FHWA Approval Letter_CAPRI.pdf	Other	Public