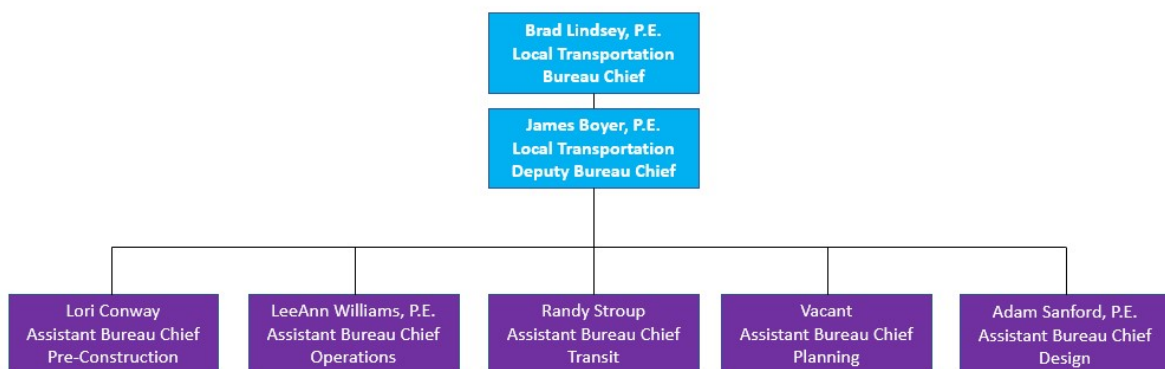


ACEA Annual Conference

Bradley B. Lindsey, P.E.
Bureau Chief
Local Transportation Bureau

Perdido Beach Resort
Orange Beach, AL
May 11, 2021

LOCAL TRANSPORTATION BUREAU SECTIONS



LOCAL TRANSPORTATION BUREAU

- James Boyer
 - Funding Programs
- Adam Sanford
 - Design Concepts
- Barrett Dees
 - Federal Aid Balances

ACEA Annual Conference

James Boyer, P.E.
Deputy Bureau Chief
Local Transportation Bureau

Funding Programs

Perdido Beach Resort
Orange Beach, AL
May 11, 2021

FUNDING PROGRAMS

- Local Roads Safety Initiative (LRSI)
- ATRIP-II
- Rebuild Alabama Annual Grant
- Local Transportation Funding Guide

LOCAL ROADS SAFETY INITIATIVE

- Alabama did not qualify for the HRRR Special Rule in FY 2022 (which is a good thing)
- In the absence of HRRR, ALDOT has elected to fund a replacement program
 - \$4 Million
- Rural and Urban non-State maintained public roadways
- Application, Guidelines, FAQs are on the ALDOT Website in the HSIP Program (Search LRSI)
- Submit Electronically – LRSIapp@dot.state.al.us
- Application Deadline - **June 30th, 2021**

ATRIP-II

- **Transportation projects of local interest on the state maintained highway system which may include work on local roads and bridges essential to such projects (\$30 Million in FY 2021)**

FY 2021 Program

23 Counties Applied (74 total)

11 Counties Awarded Projects

\$ 10,300,000 in ATRIP-II Funding

Awarded Project Scopes

4 – Intersection Improvements

5 – Adding Turn Lanes

2 - Lighting Installation / Upgrades

RAA ANNUAL GRANT

- **Projects may be submitted for improvements to any classified road or bridge open to public traffic (\$10 Million in FY 2021)**

FY 2021 Program

217 Total Applications

1st Round

21 Awarded Projects

\$ 4,936,698.89 in RAA Funding

FY 2021 Program

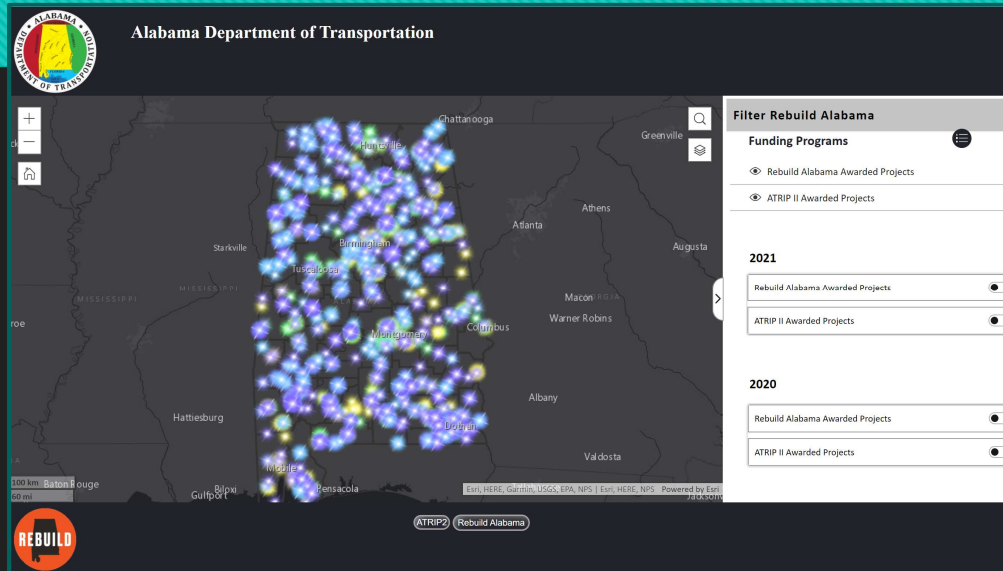
50 Counties Applied

1st Round

10 Counties Awarded Projects

\$ 2,293,827.61 in RAA Funding

REBUILD ALABAMA PROGRAMS WEBPAGE



LOCAL TRANSPORTATION FUNDING GUIDE



AUBURN UNIVERSITY

SAMUEL GINN
COLLEGE OF ENGINEERING

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Alabama Transportation Funding Guide

In this document you will find information regarding state and federal programs that provide transportation project funding of interest to local governments and other entities. This information is intended to serve as a guide for preliminary funding searches. For more detail, we encourage you to contact the Alabama Department of Transportation (DOT) local transportation bureau listed for each program.

[Download Full Guide](#)

ALABAMA TRANSPORTATION REHABILITATION AND IMPROVEMENT PROGRAM - II	
ATRIP-II is an ALDOT administered transportation infrastructure grant program for projects of local interest created in the Rebuild Alabama Act of 2019.	
ELIGIBILITY:	
Any local public agency, county or municipality, is eligible to submit an application. A sponsoring local government agency may not submit more than one project application per fiscal year. Project applications may be submitted for improvements to any state-maintained highway system, which may include local roads and bridges essential to such projects. Projects should be for public use and benefit the traveling public at large.	
APPLICATION DEADLINE: August 30, 2021	
Applications shall be submitted to:	ATRIP-II Project Application ATTN: James Boyer, P.E. 1409 Coliseum Blvd Montgomery, AL 36110
Applications may be submitted jointly for projects of interest to more than one local government, and this shall be deemed as the eligible project for each sponsoring agency.	
TYPE OF APPROVAL REQUIRED:	
Applications will be accepted and reviewed by ALDOT for compliance with program requirements and guidelines prior to final identification by the ATRIP-II Committee for project funding. ATRIP-II funded projects will be bid and let to contract by ALDOT in accordance with applicable state laws. Eligibility and constructability of all proposed project activities and work phases will be evaluated by ALDOT prior to final consideration by the ATRIP-II Committee for funding.	
PROGRAM'S ANNUAL FUNDING LEVEL: \$30M	
The maximum funding to be provided to an individual project in FY 2020 shall be \$2M. Local or other funding sources to supplement ATRIP-II funds is not required, but projects containing a commitment to provide supplemental funding may be given favorable consideration by the ATRIP-II Committee.	
ALLOWABLE WORK PHASES:	
Right-of-way acquisition may be an eligible phase of work and will be reviewed on a case by case basis and shall be included in the application. Utility easements on the property of another entity shall be included in the application. Utility relocation is not an eligible phase of work for ATRIP-II funding. Preliminary engineering shall be administered by ALDOT as an eligible phase of work for funding.	
MORE INFORMATION:	
https://www.dot.state.al.us/atr2/pdf/2020ATRIP-IIProceduralGuidelines.pdf	

<http://eng.auburn.edu/atap/funding-guide.html>

LOCAL TRANSPORTATION FUNDING GUIDE

Your help is needed!

- If you have a program that has transportation funding available to local agencies and want to advertise for it.... Contact us!
- If you are a local agency and are aware of a funding program that should be included on the funding guide webpage... Contact us!

James F. Boyer, P.E.

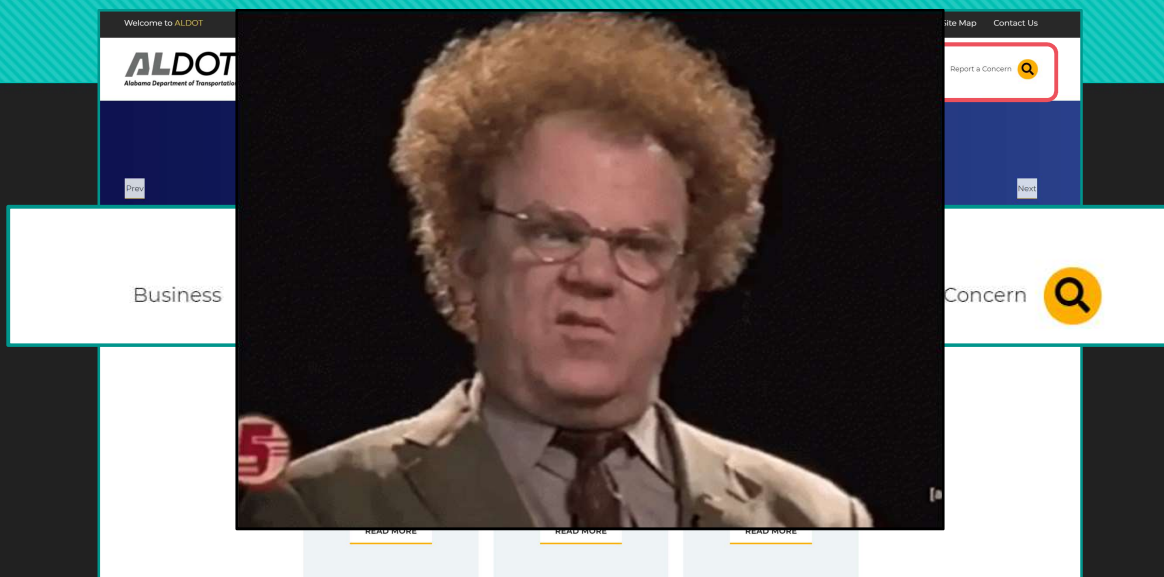
Deputy Bureau Chief
Local Transportation Bureau
Alabama Dept of Transportation
O: (334) 242-6619
BoyerJ@dot.state.al.us

Veronica Ramirez, E.I.

Transportation Engineer
Alabama Transportation Assistance Program
202 Ramsay Hall, Auburn AL 36849
O: (334) 844-5762 | C: (850) 345-8582
ramirez@auburn.edu | eng.auburn.edu/atap/

<http://eng.auburn.edu/atap/funding-guide.html>

ALDOT NEW WEBSITE



ACEA Annual Conference

Adam Sanford, P.E.
Assistant Bureau Chief, Design
Local Transportation Bureau

General Design Concepts

Perdido Beach Resort
Orange Beach, AL
May 11, 2021

Concepts Covered

- Lane and Shoulder Widths
- Horizontal Curvature and Superelevation
- Clear Zone
- Bicycle/Pedestrian Facilities
- Intersection Improvements (Turn Lanes)

Lane and Shoulder Widths

- Applies to Pavement Preservation and 3R Projects
- Chart made from ALDOT B/C analysis to help designers
- For 2 lane rural highways (see notes for others)
- Much higher ADT for 12 ft lanes and doesn't consider trucks

Lane and Shoulder Widths

Guideline 3: The designer should determine the appropriate lane and shoulder widths from the table below:

Design Year ADT ^a	Lane Width ^{cde}	Shoulder Width ^{cde}
Under 400 ^b	9 ft	2 ft
400 - 2,000 ^b	10 ft	2 ft
2,001 - 7,500 ^b	11 ft	3 ft
Over 7,500 ^b	12 ft	3 ft

Table 3-1: Recommended Lane and Shoulder Widths

Horizontal Curvature & Superelevation

- Only applies to 3R Projects (not eligible for Pavement Pres.)
- Perform B/C analysis to see if superelevation correction needed)

○ Safety Benefit

Leveling Cost

- Still have acceptable substitutes



I know
some of our
roads look
like this...

Superelevation Correction B/C Analysis Example

ROADWAY DATA

Section Length (mi) 4.000
 ADT (veh/day) 12,000
 Terrain Rolling
 Pavement Type Flexible

ALIGNMENT DATA

Enter average curve data
 Enter specific curve data
 *Use this if improving superelevation

EXISTING CROSS SECTION

Lane Width (ft) 11.00
 Shoulder Width (ft) 3.00
 Shoulder Type Unimproved
 Roadside Slope 1:1.25
 Centerline Rumble Strip No
 Shoulder Rumble Strip No

LEGEND:
 Input
 Optional
 Input
 Calculated

RESULTS

Calculated Data Required Data Used

ANNUAL COST

ANNUAL COST (PER MILE) 100,000
 PRESENT VALUE 100,000

NEW NORMAL CROWN

Width { }
 Required STL

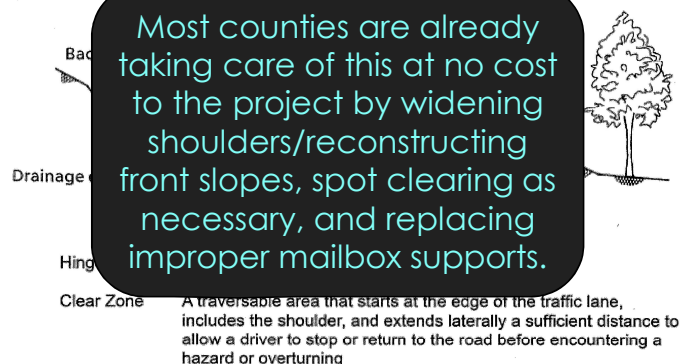
SPECIFIC CURVE DATA

Curve	Length (ft)	Existing e (%)	Consider for Improvement	Improved e (%)			
1	10	5.0%	Yes	7.6%			
2	8%	5.0%	Yes	7.6%			
3	45 mph	5.0%	Yes	7.6%			
4	5.0%	Yes	7.6%				
5	5.0%	Yes	7.6%				
6	5.0%	Yes	7.6%				
7	5.0%	Yes	7.6%				
8	5.0%	Yes	7.6%				
9	5.0%	Yes	7.6%				
10	0.100 mi	0.000 mi	765.00 ft	No	5.0%	Yes	7.6%

This example had 12,000 ADT, 11' lanes, 15 fatal and injury related crashes, and 10 horizontal curves that did not meet the design speed. Based on the required leveling needed, the B/C ratio was 0.884, meaning the improvements are not cost beneficial. If it is justified, it will probably be obvious.

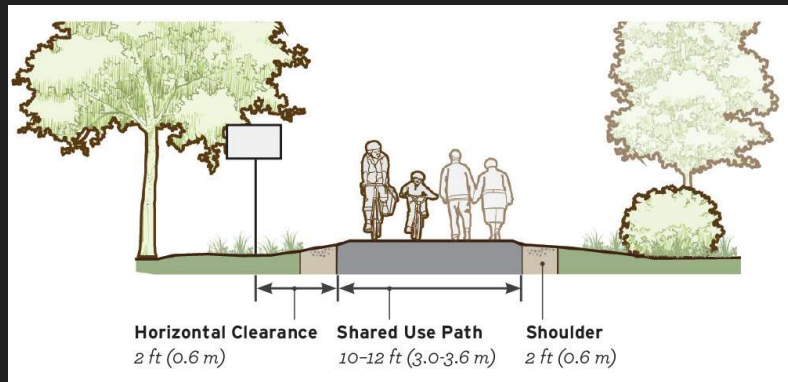
Clear Zone

- Area next to traveled way that is no steeper than 3:1 and free of trees and other non-breakaway items
- 7' Clear Zone desirable for low speed roadways (45 MPH or less)
- B/C analysis for slope flattening
- Substitutes: Slope flattening in site-specific locations, removing items greater than 4" diameter, or provide guardrail protection when steeper slopes are **proposed**



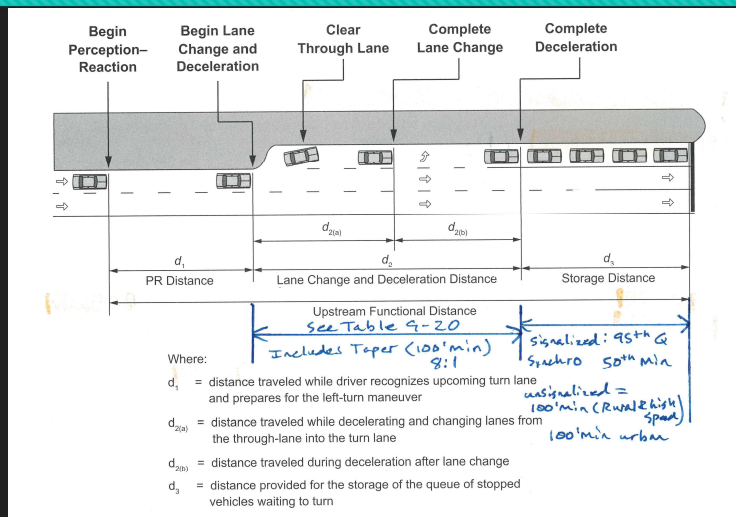
Bicycle/Pedestrian Facilities

- Upgrade existing pedestrian crossings to be ADA compliant with ramps, detectable warning surfaces, and crosswalk markings
- New **Pedestrian Facilities** should be **5 ft** wide, **shared use paths** **10 ft** wide, and **bike lanes** a minimum of **4 ft** wide
- Evaluate project limits to see if new facilities are needed



Adding/Extending Turn Lanes

- Ensure turn lane widths meet lane widths for appropriate design criteria
- Provide minimum 8:1 taper lengths
- Strive to provide full deceleration lengths shown in Table 9-20 2018 Green Book with 100 ft of storage at unsignalized intersections
- Provide enough storage to satisfy the 95th queue for signalized intersections



Quick Update

The Local Transportation Bureau's internal review of the new LPA Design Policies are nearing completion, so we will be reaching out to county and city engineers for comments in the near future.

ACEA Annual Conference

Barrett Dees, P.E.
Assistant Design Engineer
Local Transportation Bureau

Federal Aid Balance Sheets

Perdido Beach Resort
Orange Beach, AL
May 11, 2021



ALABAMA DEPARTMENT OF TRANSPORTATION
Local Transportation Bureau
1409 Coliseum Blvd., Montgomery, Alabama 36110-2060
Phone: (334) 242-8207 FAX: (334) 353-6530
Internet: <http://www.dot.state.al.us>



Kay Ivey
Governor

John R. Cooper
Transportation Director

April 30, 2021

Mr. County Engineer, P. E.
County Engineer

Mr. County Engineer:

Your Federal-Aid Balance: See Attached Balance Sheet

Outstanding Invoices:

Project Number: Dollar Amount Due

Final Settlement Vouchers (Not Yet Invoiced):

Project Number: Dollar Amount Due

County will need to bring their federal-aid balance down to \$0.00 to be eligible to receive their FY2022 Federal-Aid Exchange Funds in the amount of \$400,000.00. Please contact me for different options on how to accomplish this.

The amount(s) on Final Settlement Voucher/Outstanding Invoices can be paid for using county funds or can be deducted from your 2022 FAEF. Please let me know how you would like to proceed.

If you have any questions, please contact me at (334) 242-6818 or deesr@dot.state.al.us.

Sincerely,

Barrett Dees, P. E.
State Local Transportation Asst. Design Engineer

For Bradley B. Lindsey, P.E.
State Local Transportation Engineer