526 LOWCOUNTRY CORRIDOR

October 2021 Stakeholder Meeting Joy Riley, PE, PMP, DBIA SCDOT

U.S. Department of Transportation Federal Highway Administration







526 Project Background

Planning & Environmental Linkages Study





I-526 LCC EAST Study Area

Virginia Avenue to US 17

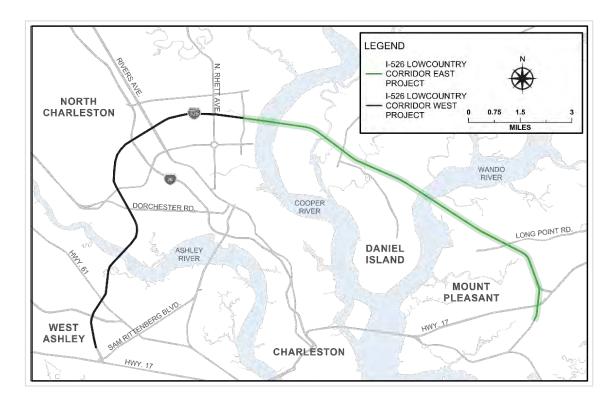








major bridges over navigational channels –Don Holt Bridge & Wando River Bridges









What is a PEL?

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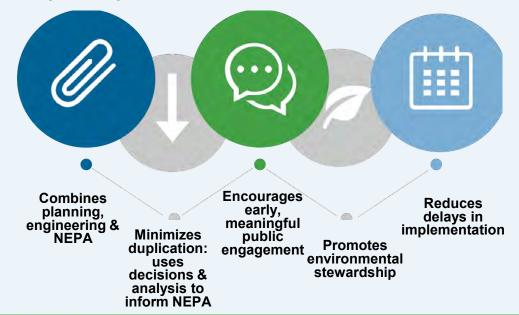
Tool for creating efficiency in transportation development

Considers environment, community & economy

3

Collaborative & integrated approach to decision-making

What are the Benefits of including a PEL Study in the project development process?



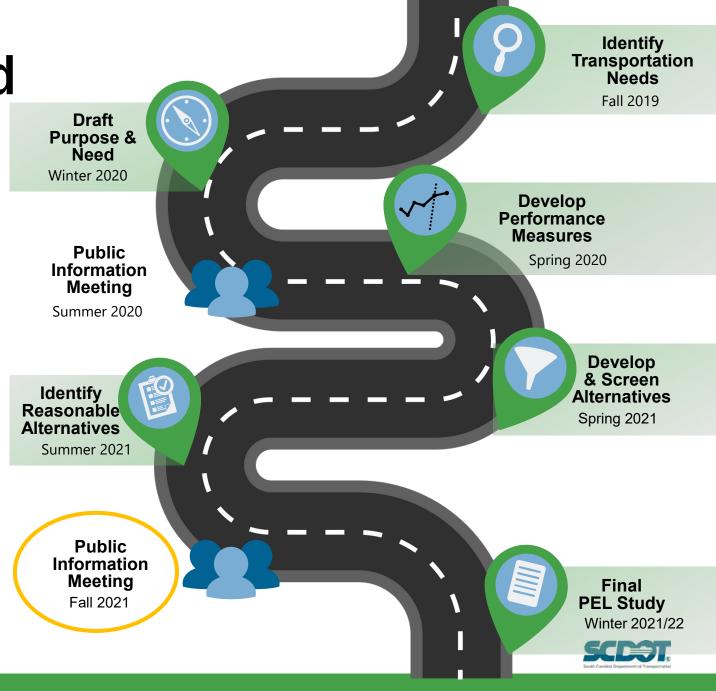






PEL Study Completed Milestones

- PEL Initiation (FHWA Concurrence) March 23, 2020
- MetroQuest Survey May 14 - August 15, 2020
- Public Information Meeting (Online) July 15 - August 15, 2020
- Purpose & Need (FHWA Concurrence) February 18, 2021
- Concepts Development & Preliminary Screening April/May 2021







Preview of Public Meeting Materials





Draft Purpose & Need

Project Purpose

The purpose for transportation improvements along this corridor is to improve travel time reliability & reduce congestion along I-526 from Virginia Avenue in North Charleston to US 17 in Mount Pleasant.

Project Goals

- Compatibility: Align with local land use plans & projects
- Demand: Accommodate increased numbers of vehicles
- Seismic: Design any new roads or bridges with new earthquake standards
- Connectivity: Improve connections with local ports, railway facilities, and transit

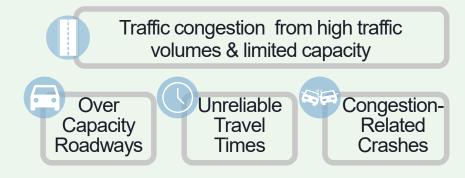
Safety: Reduce traffic-related crashes

- Multimodal: Enhance movement through the corridor including other modes such as carpool, transit, walk, or bike
- Technology: Accommodate future transportation technologies for vehicles, system monitoring, driver information, and traffic operations

Identified Needs

Mobility

This is a busy corridor supporting a large number of people, goods, and services. The key issues are:



Roadway Deficiencies

The current roads, bridges and interchange ramps are not designed to handle the current or future traffic demands. The key issues are:



As of October 2021

What did we hear & how did we use YOUR input?

LOWCOUNTRY What We Heard: Public Information Meeting #1 **CORRIDOR**

21%

Concerned

with Noise

Impacts

13%

Concerned with

Neighborhood Impacts

84 Meeting Live: **Comments** July 15 -83 Online Comments August 15, 2020 1 Emailed Comment

Top 5 Comments & Concerns:

10%

Wanted Alternative Truck/ Freight Routes

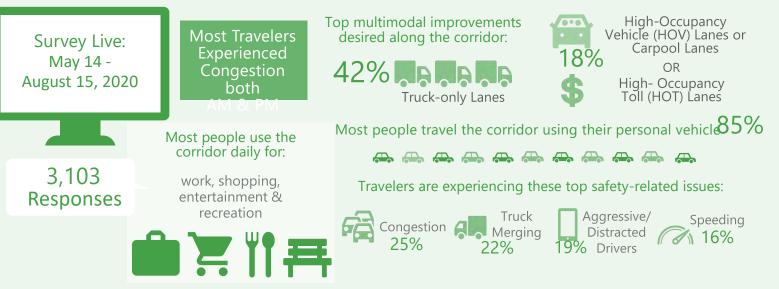
Support Widening

5%



Wanted Trucks in the Right Lane/ Truck-Only lanes

What We Heard: Public Survey



How was YOUR Input Used?



To validate the purpose & need for transportation improvements in the corridor.

To refine project goals.



To develop alternatives concepts.



More refined designs are needed to conduct a proper noise study; the current designs are high-level concepts.

This is determined during the next phase in the environmental analysis associated with the National Environmental Policy Act (NEPA). Then, multiple types of noise reduction strategies can be explored.

More information on the SCDOT noise policy can be found hon the SCDOT environmental toolkit webpage

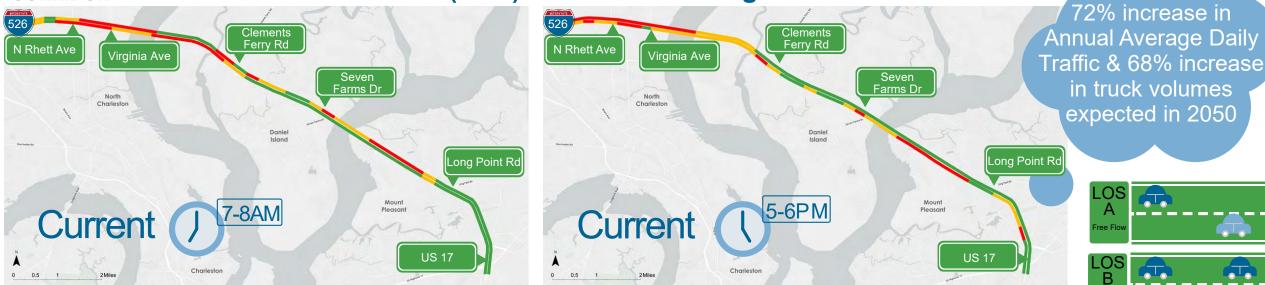
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How much is traffic expected to grow by 2050?

2017 Level of Service (LOS) Conditions during Rush Hour

LOWCOUNTRY

CORRIDOR



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2050 LOS Projections with No Improvements during Rush Hour



low & why do we measure Travel Time Reliability? LOWCOUNTRY Time it takes to get **CORRIDOR**

How long it would take to get there if you could go the speed limit

somewhere



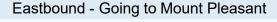
Why use this measure? If roads have a lot of traffic, even a slight disturbance can cause: Excessive Delays, have a Greater Impact, and Take longer to Recover than in a non-congested area.

What would this tell me?

The Travel Time Index represents the additional time required to drive a certain

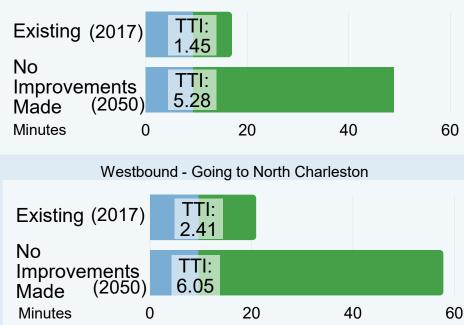
route during rush hour (as opposed to when there is no traffic)

How long would it take to go from Virginia Avenue to US 17 in Mount Pleasant in 2050 when there is no traffic (blue) vs rush hour (green)



Travel Time

Index (TTI)





Middle of the Night

These graphs explain the Travel Time Index. Blue represents how long it would take to drive the corridor if there were no traffic, like in the middle of the night (2050). Green represents the additional time it would take to travel the corridor during rush hour. The green bars are substantially longer under the no improvement scenario - meaning it would take that much longer to drive the corridor during rush hour in 2050 if no improvements are made.

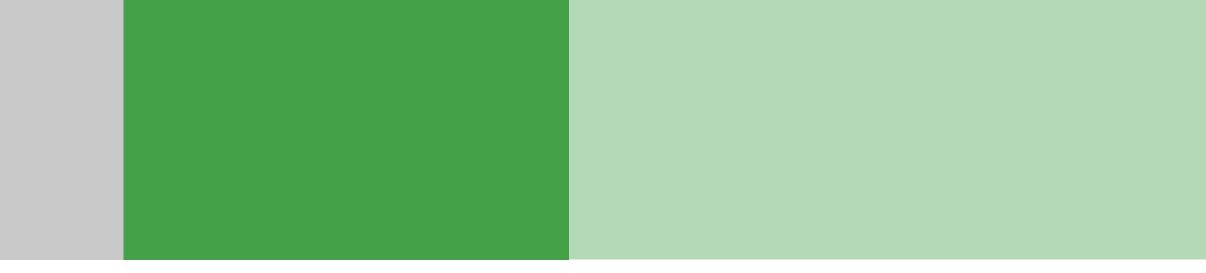
Rush Hour

What does this mean?

If no improvements were made, travel times are expected to increase by 193% traveling Eastbound and 104% traveling Westbound in 2050.

What else could be done to reduce these times?

Learn more about Transportation Systems & Management Solutions in the next stations.









What types of concepts did we look at?

The "No Build" Alternative

What would happen if no improvements were made?

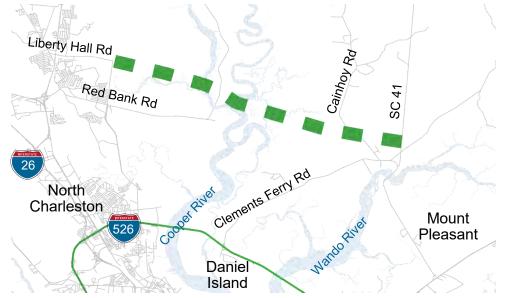
Increased travel times and congestion. Additionally, as congestion increases, congestion-related crashes typically increase.



Parallel Routes

Why not build a new parallel road reduce traffic?

A new alternative route would only provide minimal improvements in congestion and travel speed. It also would not improve the roadway deficiencies of the existing I-526 corridor.





Transportation Systems Management & Operations (TSMO)

What other options could help extend the life of I-526 and/or prevent the need for us to build anything?

TSMO strategies are used to extend the life of a highway and avoid or delay the construction of new lanes. The existing infrastructure may not always support these options without additional construction. In this case, TSMO strategies alone would not provide the level of improvement needed. *Examples*:



Variable Speed Limit

Autonomous Vehicles

Accommodation of Connected &

Park and Ride

Shoulder Lane Use

Adding Lanes

If we widen the existing road, how many lanes would we need in each direction? 1 lane in each direction would not improve congestion or travel time enough in 2050. Adding 2 lanes in each direction would improve both congestion and the roadway deficiencies on I-526.

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Transportation Systems Management & Operations

Which transportation system management & operations options were analyzed?

Proposed to be carried forward into NEPA



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> i.e. "Bus" or "Car on Shoulder" Shoulders are used as flexible travel lanes during rush hours

Shoulder Lane Use



Traveler Information **Incident Management** Road Weather Management Work Zone Management



Not reasonable for this project

implementation of a regional plan.

High Occupancy Vehicle Lanes i.e. Carpool Lanes

High Occupancy Toll Lanes Adds a lane for vehicles with more than 1 passenger or those willing to pay **Dedicated Truck Lanes**

Why not? These managed lanes options (below) do not meet the Purpose & Need of the project without

regional implementation. HOWEVER, any project constructed would be done in a manner not to preclude the



Congestion Pricing Includes a toll that increases or decreases to control the number of vehicles



e source: WSDO1

Park and Ride Provides parking for ride sharing and bus use





Enhance Lane Markings Improves driver experience



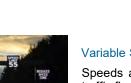
Ramp Metering Controls the number and pace of cars entering the freeway

Why not? Some simulation models showed merging issues for general traffic.



Truck Platooning

Uses technology to allow multiple trucks to travel in a very tight formation

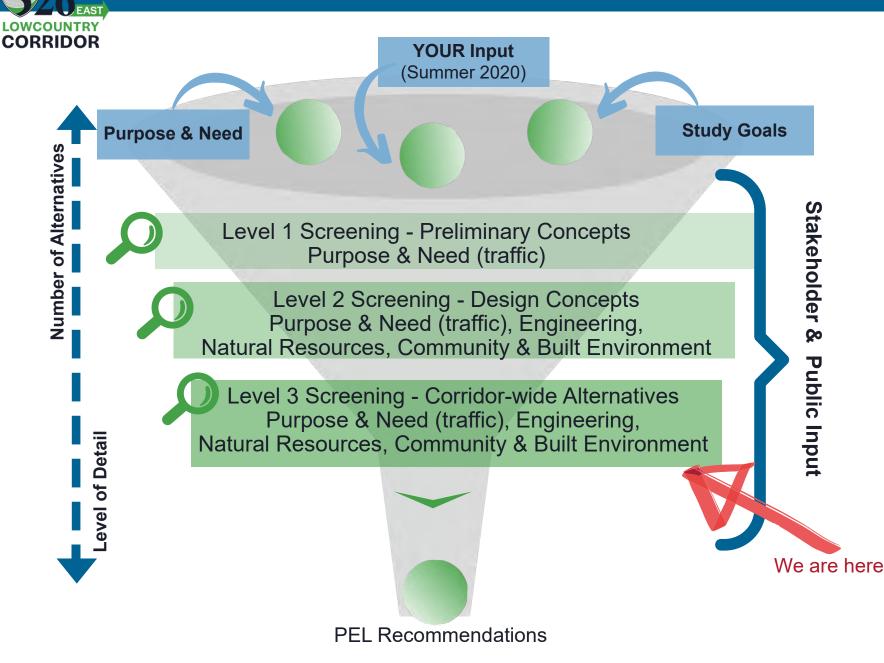


Variable Speed Limit Speeds adjusted to optimize traffic flow



Accommodate Connected & Autonomous Vehicles Uses technology to improve safety and operations

Alternatives Concepts Screening Process



How were the alternative concepts evaluated?

The project team evaluated the alternatives through a three-step screening process to identify the reasonable alternatives that are presented today.

Each level of screening included a more detailed analysis of the alternatives. As the process progressed, poorly performing alternatives were removed from further review.

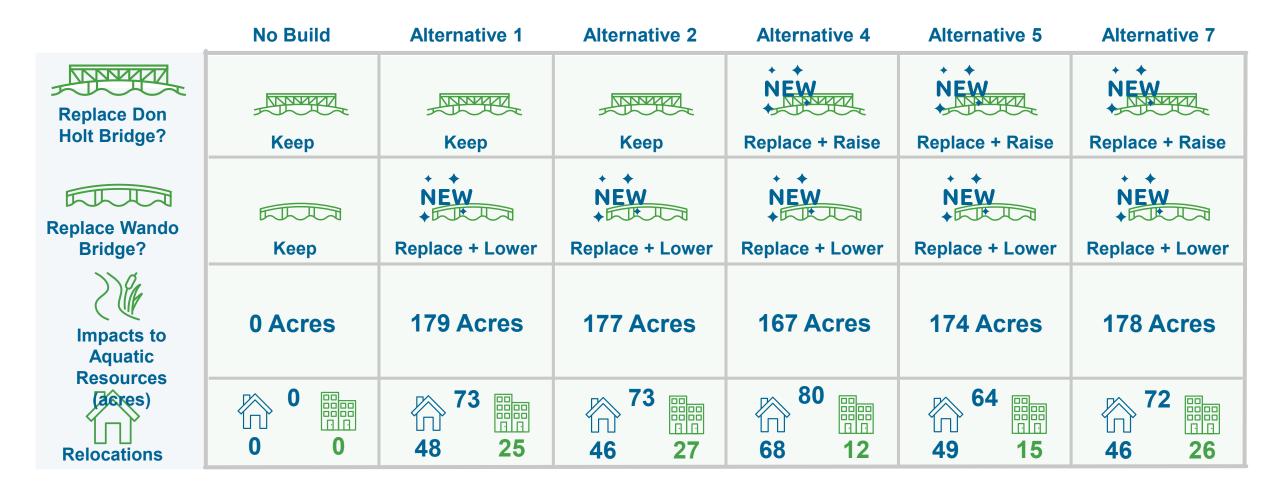
The resulting alternatives are proposed to be carried forward into the NEPA process.

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Reasonable Alternatives Matrix

CORRIDOR How do each of the reasonable alternatives compare based on the identified criteria?

EAST



Reasonable Alternatives Matrix - Continued

CORRIDOR How do each of the reasonable alternatives compare based on the identified criteria?

	No Build	Alternative 1	Alternative 2	Alternative 4	Alternative 5	Alternative 7
Impacts to Parks & Recreational Facilities?	0	3 Ralph M. Hendricks Park, Governors Park, Kearns Trail	3 Ralph M. Hendricks Park, Governors Park, Kearns Trail	2 Ralph M. Hendricks Park, Governors Park	3 Ralph M. Hendricks Park, Governors Park, Kearns Trail	3 Ralph M. Hendricks Park, Governors Park, Kearns Trail
Impacts to Threatened & Endangered Species?	No	No	No	Νο	No	No



All reasonable alternatives, except the No Build, include a 14 ft. shared-use path along the river crossings to provide access for bicycles and pedestrians. The shared-use path along these river crossings would connect with planned and existing facilities and support regional multi-modal goals.



Cost is not a determining factor at this stage. However, variables influencing costs include whether or not a bridge would be replaced, the right-of-way needed, having to move any utilities, and any costs associated with mitigating impacts to the environment or communities.



Don Holt Bridge Features

How tall should the Don Holt Bridge be?



Existing Don Holt Bridge

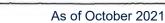
29.8' North Rhett 136.9' Virginia (Potential)

Potential Don Holt Bridges

186 ft

How do we determine the proposed bridge height?

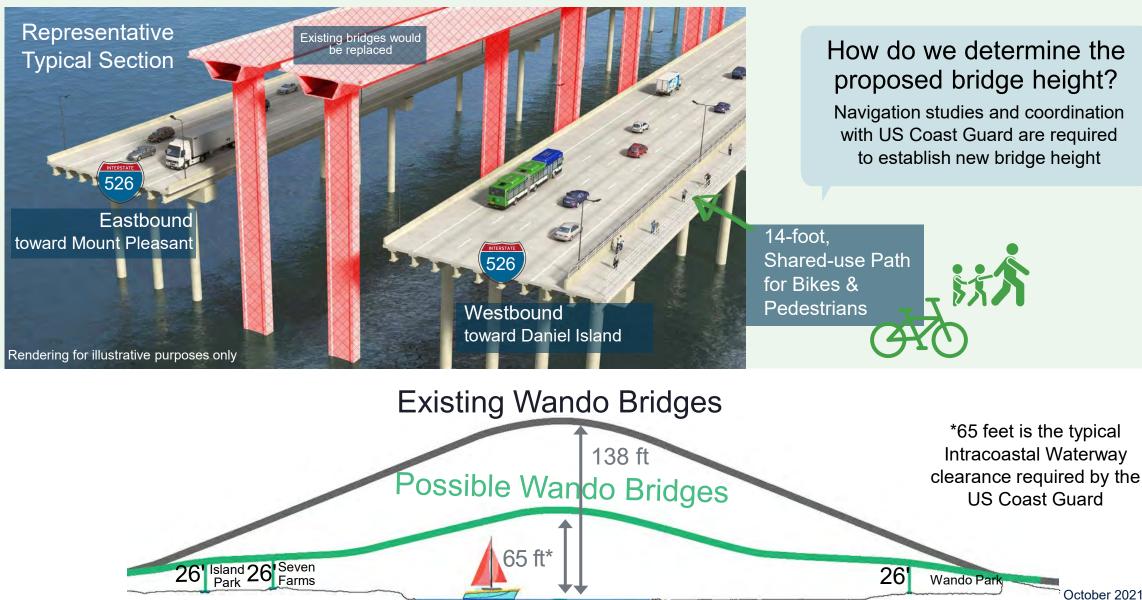
Navigation studies and coordination with US Coast Guard are required to establish new bridge height





Wando Bridge Features

How tall should the Wando Bridges be?



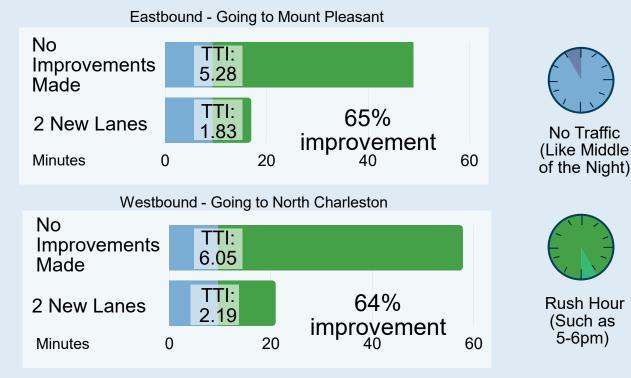


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How do the reasonable alternatives improve the Travel Time Reliability?

All reasonable alternatives have the same lane configurations and therefore would provide similar improvements

Comparing the No-Build vs. Build in 2050



These graphs help explain the Travel Time Index. The blue shows how long it would take to drive the corridor if there were no traffic in 2050 (AKA how long it takes to drive it going the speed limit) and the green shows the additional time it takes to travel the corridor during rush hour. Note, the green bars are substantially longer if no improvements are made - meaning it would take that much longer to drive the corridor.

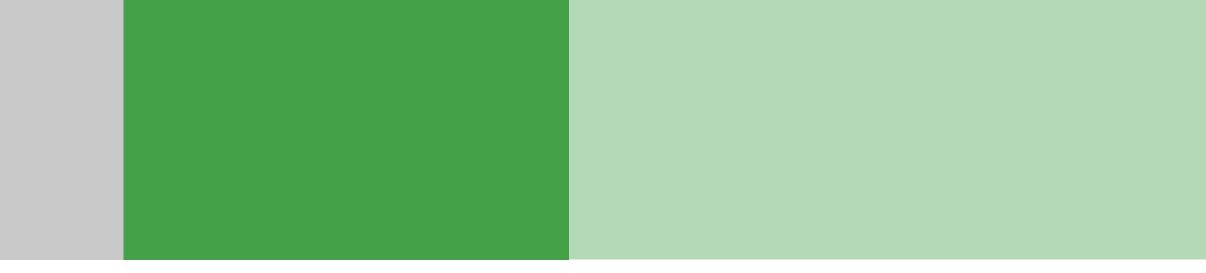
What does this mean?

The Travel Time Index indicates it would take less time to drive from North Charleston to Mount Pleasant (and the reverse) if any of the reasonable alternatives were constructed



Estimated Drive Times During Rush Hour in 2050











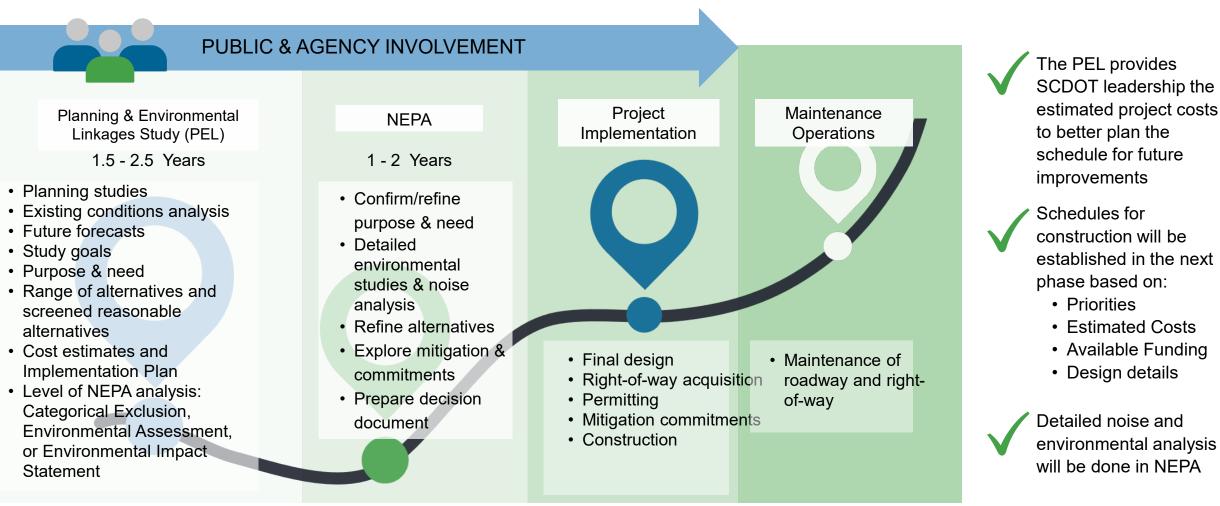


PEL Study Next Steps and Milestones



Next Steps







National Environmental Policy Act (NEPA) requires federal agencies to assess the environmental effects of their proposed actions prior to making decisions. This is the next step after the PEL study.



As of October 2021



How can I participate?

How to Participate



526LowcountryCorridor.com/eastvpim2021 Live, October 11, 2021

The Public Information Meeting webpage contains all the materials you would see at an in-person meeting.

A mailed public information meeting packet may be requested by calling 843.258.1135 or emailing info@526LowcountryCorridor.com.



In-person Public Meetings

Official Comment Period

October 11 - December 1, 2021

Tuesday, October 26, 2021 5-7 PM R. L. Jones Center 391 Egypt Road, Mount Pleasant, SC

Wednesday, October 27, 2021 5-7 PM Felix C. Davis Community Center 4800 Park Circle, North Charleston, SC CARTA Routes 13 & 104

Spanish translation services available at all meetings.

How to Comment

Meaningful input is our number one priority. Below are the ways to make your voice heard in the official project records.

Project Website

526LowcountryCorridor.com Fill out a comment form on the project website.



Project Hotline

843.258.1135 (Call Us)

Press "2" to leave a verbal comment. Comments will be limited to 2 minutes.

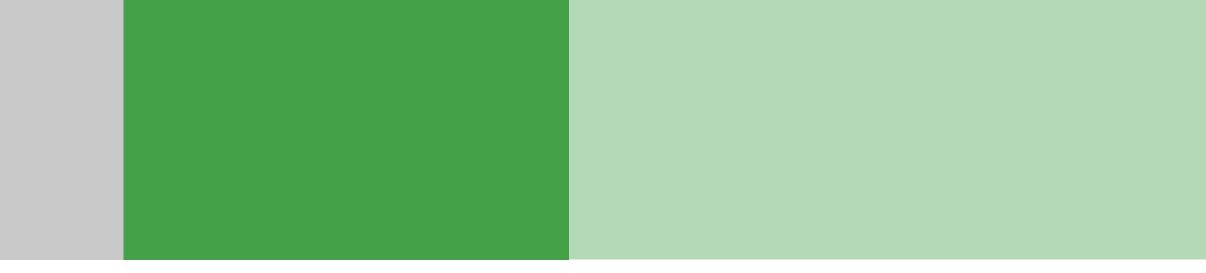


Project Email

info@526LowcountryCorridor.com



Joy Riley, PE, PMP, CPM, DBIA SC Department of Transportation Post Office Box 191 955 Park Street. Room 401 Columbia, SC 29202-0191







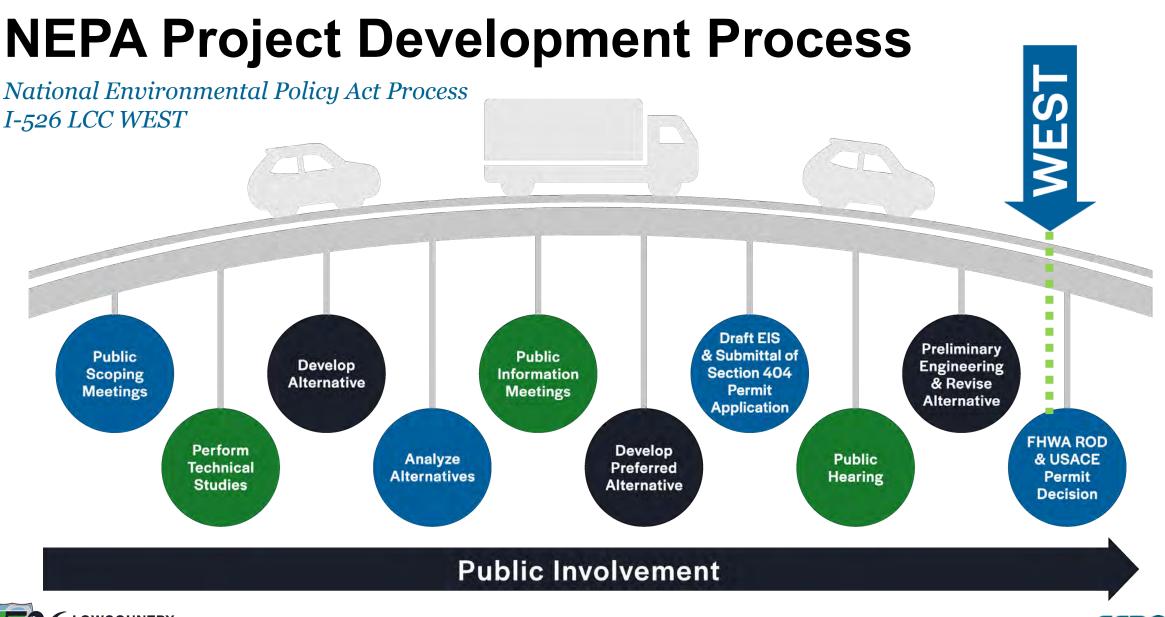




WEST Updates

An Environmental Impact Statement









What is missing from this story?



The dismantling of Black communities for highways is not just a thing of the past.

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In a planned highway widening project a few miles north of Charleston, 94 percent of displaced residents live in communities mostly consisting of Black and Brown people.



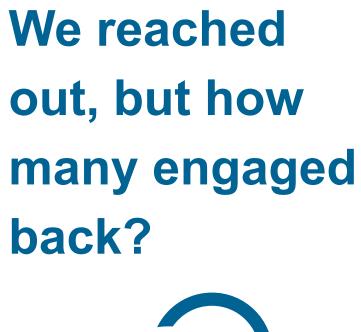
Black people are about to be swept aside for a South Carolina freeway — again South Carolina destroyed Black homes to build I-26 and I-526 without much engagement. The state vowed to engage residents for a new project, but it still ... & washingtonpost.com

12:21 PM · Sep 19, 2021 · Twitter Web App

3,420 Retweets 545 Quote Tweets 3,833 Likes

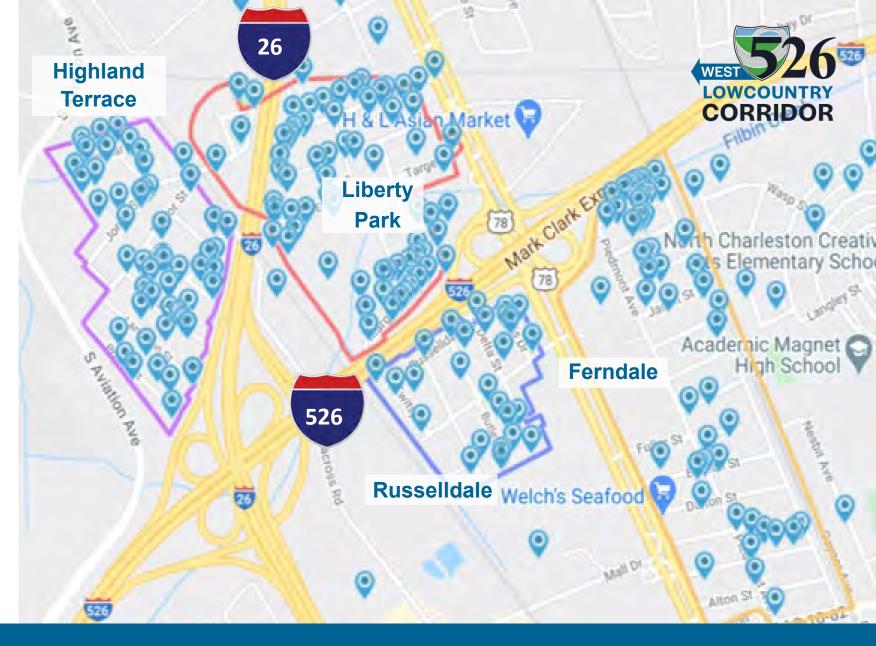








By the end of the public hearing in Winter 2021, each of these addresses had "touched" us back!



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IN THE COMMUNITY, FOR THE COMMUNITY

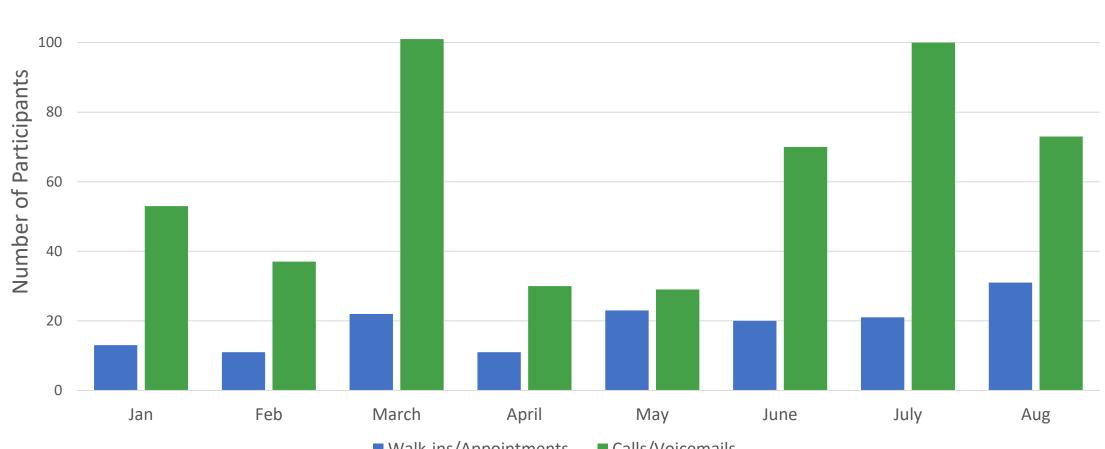


YOUR COMMUNITY OFFICE

152 VISITS THIS YEAR! 431 SINCE OPENING NOVEMBER 2019



2021 Community Office Engagement



■ Walk-ins/Appointments ■ Calls/Voicemails



120



COMMUNITY RESOURCE INFORMATION SESSIONS



- Monthly, August -December 2021
- 2 Sessions per Topic (Lunchtime & Evening)
- In-person & Online
- Topics handpicked



Monday, September 27, 2021 Let's Put Your Financial House in Order!

Learn how to manage your finances, save for unexpected expenses, and plan to buy a home.

Monday, October 25, 2021 White Coat Fright

Are you afraid to visit a doctor? Don't be! Learn more about white coat fright and how to prioritize your healthcare.

Monday, November 8, 2021

What's the Difference in Trusts Versus Wills?

Learn the difference between a trust and a will and how you can begin planning for your family after your death.

Monday, December 6, 2021

What is PTSD (Personal Traumatic Stress Disorder)?

Learn more about PTSD and how to handle stress during difficult times.





2021 Community Advisory Council Activities

The project team has worked with the CAC to:

- Formed subcommittees to further develop mitigation commitments
- Shared project information with neighbors
- Advise the project team on adjusting and finalizing mitigation components

- Develop and improve tools to engage with residents
- Serve as a voice for the EJ neighborhoods
- Begin preparing for the Project
 Oversight Committee

Stay tuned - the Project Oversight Committee is coming soon.





Proposed Community Mitigation Schedule



COMMUNITY HISTORY PRESERVATION PROGRAM

Get involved and help document the rich historic and cultural aspects of your

community!

Interviews with past and current residents Historic photographs of communities Information documenting cultural and historic elements

=



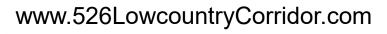






Contact Information







www.facebook.com/526Corridor



@526Corridor



info@526LowcountryCorridor.com



Community Office: 5627 Rivers Avenue | North Charleston, SC 29406



843.258.1135 (call or text)



Joy Riley, PE, PMP, DBIA SCDOT Project Manager

