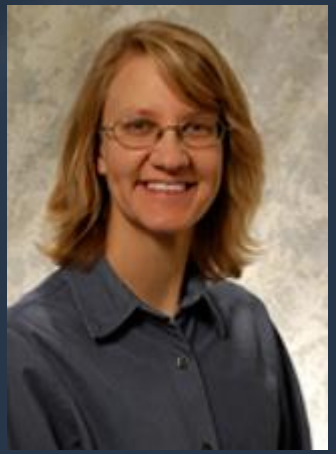
Office of Planning Feasibility Reports

SCDOT

South Carolina Department of Transportation

Office of Planning

Feasibility Report Manager



Betsy McCall, P.E

Contact Information

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The What, When, Where, How, Why

Of Feasibility Reports

What is the Purpose of the Report?

- Main Goals of Report:
  - Purpose and Need
  - Project Goals
  - Scope
  - Cost
  - Schedule

Why Develop Feasibility Reports?

- Advanced Project Planning Report
- LAC Audit
- Risk Management is good Project Management, regardless of the project size
- Aids the Department from cradle to grave

Who is Benefiting from the Report?

- COGs and MPOs
- SCDOT
- Municipalities and Counties
- Public

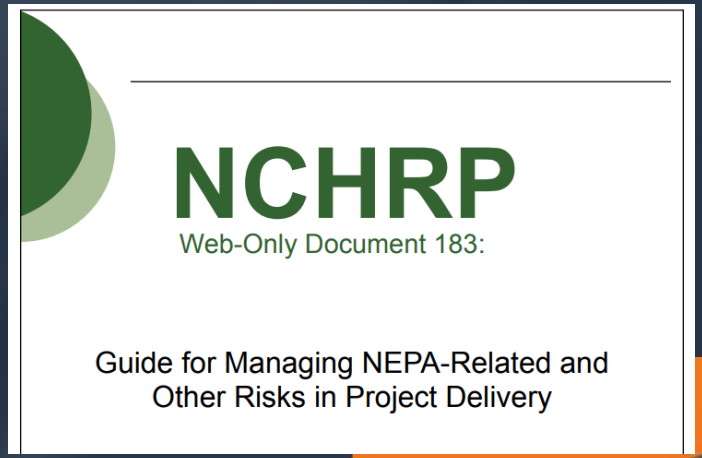
When will the Report Process Begin?

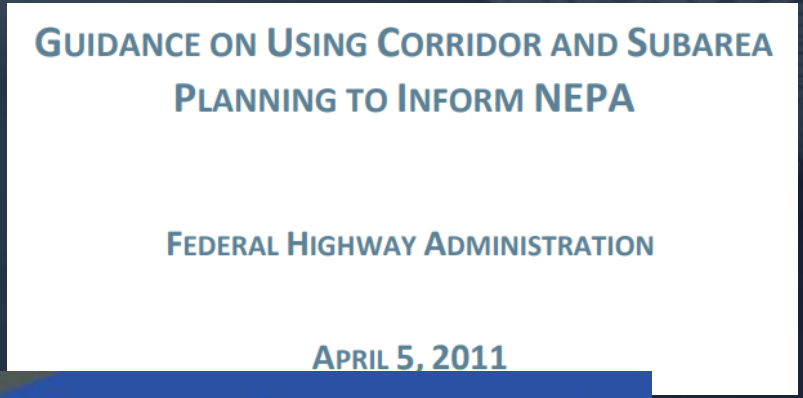
- Rural Interstate Projects – Winter 2019
- COG/MPO Initiated Projects – FY2020
- Bridge Replacements – TBD

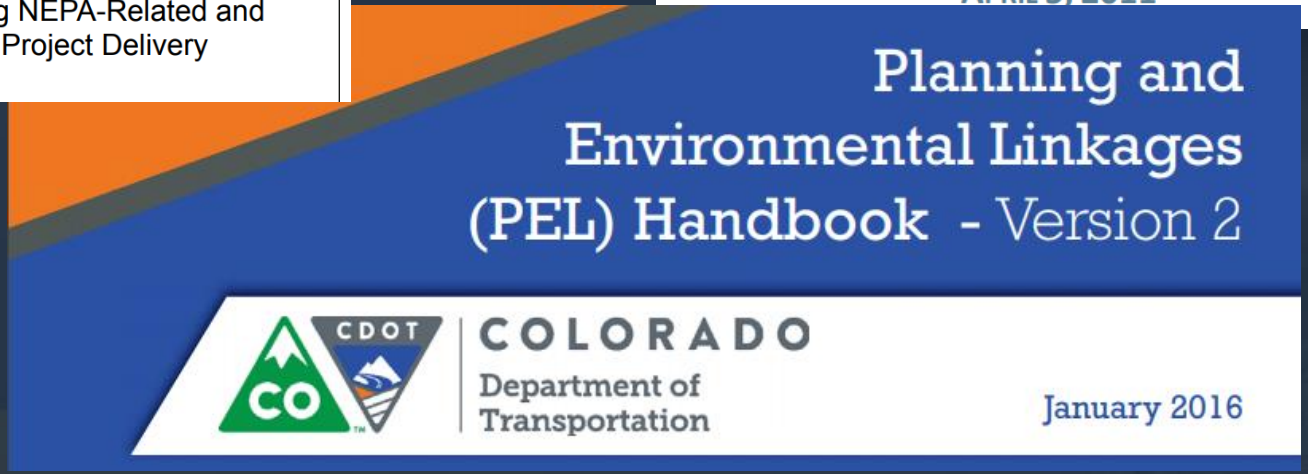
Who will Compile the Report?

- COG/MPO Initiated Projects with Guideshare Money– SCDOT
- Interstates and Bridge Replacements – SCDOT
- Sales Tax Projects – County

How will the Report Process Proceed?







How Long will the Process Take?

- 6-18 months, Dependent on Project Size
- Consultants May Do Pieces, Dependent on Resources

What will the Report Accomplish?

- Identifies the Project Team
- Serves as an Agreement between the Department and Project Sponsor
- Defines the Project

Feasibility Report Accomplishments

Identifies the Project Development Team (PDT)

- Program Manager
- Design Lead
- District
- Environmental
- Right-of-Way
- Traffic Engineering Design and Safety
- Utility Coordinator
- Feasibility Report Manager
- Maintenance
- Construction
- Transit, Multimodal, and Freight Planners
- Regional Planner
- Stakeholders – City, County, etc.
- Project Sponsor
- Pavement Design
- FHWA

Feasibility Report Accomplishments

- **Serves as an agreement between the Department and Project Sponsor**
  - Acts as a living document
  - Documents project goals and scope
  - Documents decisions and discussions
  - Documents project timeline

Feasibility Report Accomplishments

- **Defines the project**
  - Project Scope
  - Project Goals and Objectives
  - Purpose and Need
  - Potential Envr., Cultural, and Social Impacts
  - Estimated Cost & Schedule
  - Benefit Cost Analysis
  - Risk Analysis

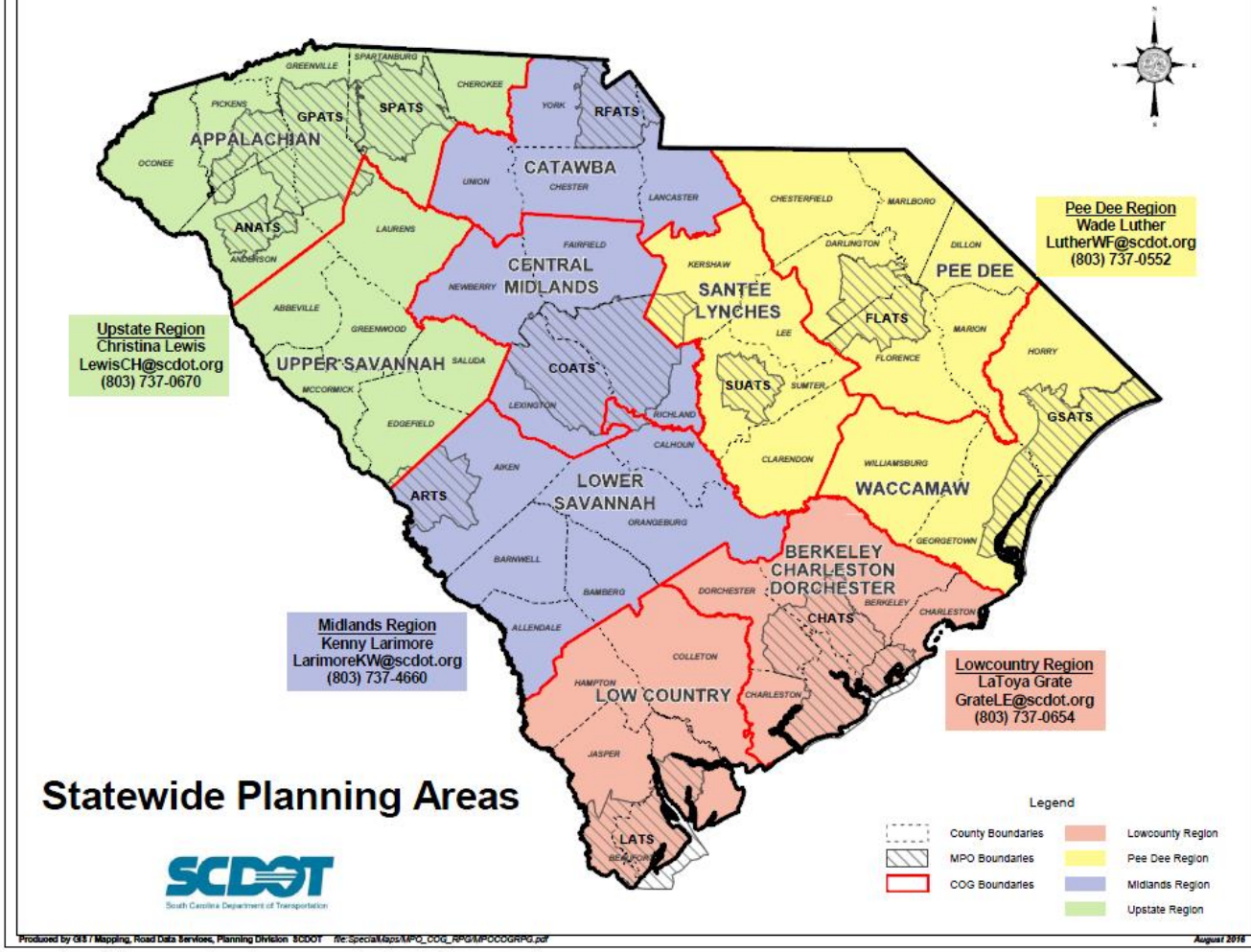
COG/MPO Input Required

- Defines the project
  - **Project Scope**
  - **Project Goals and Objectives**
  - **Purpose and Need**
  - Potential Envr., Cultural, and Social Impacts
  - Estimated Cost & Schedule
  - Benefit Cost Analysis
  - Risk Analysis

Feasibility Report Process

Feasibility Report Process

- COG/MPO Requests a Feasibility Report (FR) for a LRTP Project
- COG/MPO Provides Project Information to the Regional Planner
  - Roadway Number/Name and County
  - Preliminary Purpose and Need
  - Corridor Information
  - Existing LOS and Future Year LOS
  - Free Flow Speed and Travel Time
  - AM & PM Peak Period Delay
  - Project Goals
  - Project History/Background/Commitments
  - LRS and MM Project Limits
  - Enhancements

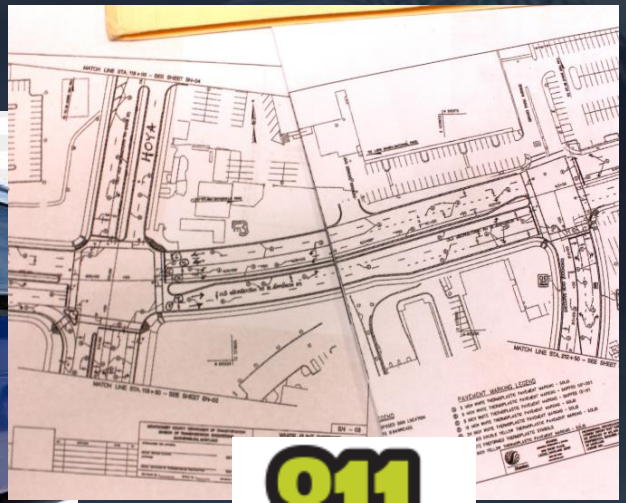

Statewide Planning Areas
Upstate Region
Christina Lewis
LewisCH@scdot.org
(803) 737-0670
Midlands Region
Kenny Larimore
LarimoreKW@scdot.org
(803) 737-4660
Pee Dee Region
Wade Luther
LutherWF@scdot.org
(803) 737-0552
Lowcountry Region
LaToya Grate
GrateLE@scdot.org
(803) 737-0654
APPALACHIAN
GPATS
SPATS
ANATS
CATAWBA
RFATS
CENTRAL MIDLANDS
UPPER SAVANNAH
COATS
SANTEE LYNCHES
PEE DEE
FLATS
SUATS
GSATS
LOWER SAVANNAH
ARTS
WACCAMAW
BERKELEY CHARLESTON DORCHESTER
CHATS
LOW COUNTRY
LATS
Legend
County Boundaries
MPO Boundaries
COG Boundaries
Lowcounty Region
Pee Dee Region
Midlands Region
Upstate Region
SCDOT
South Carolina Department of Transportation
Produced by GIS / Mapping, Road Data Services, Planning Division SCDOT file:Special\Maps\MPO_COG_RPG\MPOCOGRPG.pdf
August 2016

Feasibility Report Process

- SCDOT Confirms Project Details
- Regional Planner Directs COG/MPO to Add the Project to their TIP
- COG/MPO Sends the Transmittal to the Regional Planner
- STIP Addition for Planning Phase Only

Feasibility Report Process

- Project Development Team (PDT) Scoping Meeting Planned



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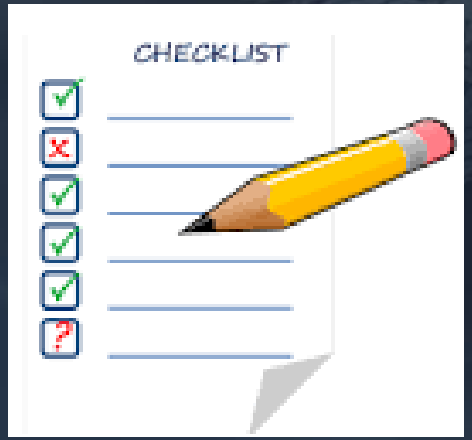
Know what's **below.**
Call before you dig.

Feasibility Report Process

- PDT Scoping Meeting
  - Project Overview
  - **Identify the Problem**
  - Define P&N and Performance Metrics
  - Define the Scope
  - Discuss Alternatives
  - Identify Risks
- Monthly Meetings



Feasibility Report Process

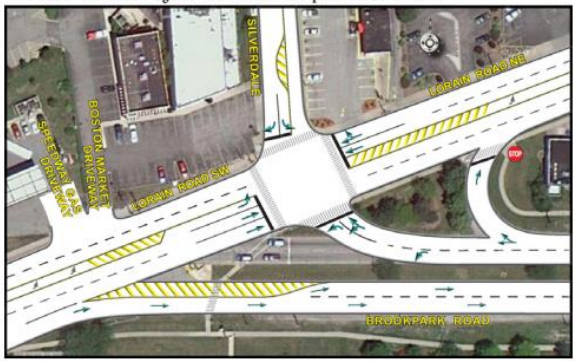
- Alternatives Generated
- Final PDT Meeting
- Cost, Schedule, and Resource Management Plan Developed for each Alternative

Construction Cost Breakdown

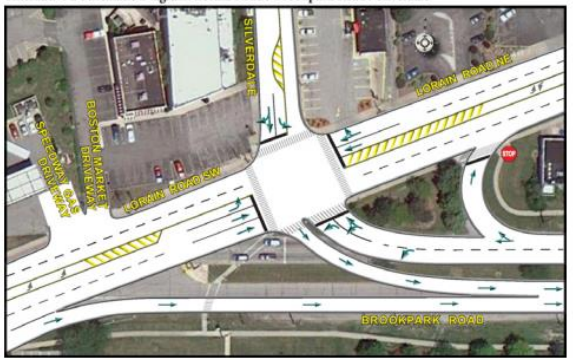
Loan Number _____ Job Address _____
Owner _____
Builder _____ Lip Amount _____

Cost Items	Description	Budget	Pre-Paid	Net
GENERAL CONDITIONS				
1	Engineering & Survey			-
2	Excavation & Grading			-
3	Plans/Blueprints			-
4	Permits			-
5	Soil Testing			-
6	Temporary Facilities			-
7	Temporary Utilities			-
8	Water Meter			-
9	School Fee			-
10				-
OFFSITE WORK				
11	Civil			-
12	Geology			-
13	Blasting			-
14	Compaction			-
15	Sewer			-
16	Backfill-Sand			-
17	Water Mains			-
18	Utilities			-
19	Electric/Phone			-
20	Paving			-
20.1	Concrete			-
20.2	Asphalt			-
21	Curb & Gutter			-
22	Driveway Apron			-
23	Side walk			-
24	Sub drains			-
25	Slope & Erosion Control			-
26	Fencing			-
27	Equipment Rental			-
28	Fire Hydrants			-
29	Street Lights			-
30	Misc. Labor			-

Alternative 1 Schematic Diagram: Lorain Road / Brookpark Road / Silverdale



Alternative 2 Schematic Diagram: Lorain Road / Brookpark Road / Silverdale



Feasibility Report Process

- Cost/Benefit Ratio Calculated for Each Alternative
- Steering Committee Concurrence
- Finalize and Sign FR

Feasibility Report Process

- Sponsor decision time
  - Reevaluate the project's LRTP ranking
  - Send Transmittal for PE, RW, Construction

  OR
  - Request Another Project to be Evaluated

Feasibility Report Uses

- COG/MPO
  - Evaluate LRTP Rankings
  - Budgeting
  - Regional Planner Discussions
- Municipalities and Counties
  - Budgeting and Planning Projects
  - Budgeting Maintenance
- SCDOT
  - Reduced STIP Revisions
  - Project Focus in Development
  - Decision Documentation
- Public
  - “Why are we doing this project?”
  - “What is the benefit?”
  - Consistency in Reporting

Betsy McCall

THANK YOU!