



MEMORANDUM

The Department of Community Development

Planning

455-3900

To: Planning Commission
From: Tom Martin, AICP, City Planner
Subj: 221 Corridor Safety Improvement Study
Date: January 8, 2014

The Region 2000 Local Government Council and Central Virginia MPO, in partnership with Bedford County and the City of Lynchburg, and with assistance from the MPO's on-call transportation engineering consultant, EPR, P.C., has begun a safety improvement study for the Route 221 corridor. The study limits commence at Cloverhill Blvd and extend into the City of Lynchburg to Forest Brook Road. The purpose of the study is to identify and document opportunities for safety improvements, congestion reduction, and multimodal accommodations. Opportunities may include improved access management, geometric modifications to key intersections, traffic operations improvements, and additional multimodal accommodations (walking, bicycling, transit access), among others. The study process will include two public meetings, with the first occurring in late January and the second meeting in March. The final study deliverable will clearly identify projects and potential funding sources for project implementation. The study is anticipated to be complete by June 2014.

On January 8, Mr. Bill Weunch from EPR, P.C. will give a brief presentation to the Planning Commission and be available to answer any questions the Commission may have.

If you have questions, please contact me at (434) 455-3909.

RESOLUTION OF THE LYNCHBURG PLANNING COMMISSION

WHEREAS: The Region 2000 Local Government Council and Central Virginia Metropolitan Planning Organization in partnership with Bedford County and the City of Lynchburg seek to improve the safety of the Route 221 Corridor.

WHEREAS: The study limits would extend from Cloverhill Boulevard in Bedford County to Forest Brook Road in the City of Lynchburg.

WHEREAS: The purpose of the study would be to identify and document opportunities for safety improvements, congestion reduction and multimodal accommodations in the corridor.

WHEREAS: Opportunities may exist to improve access management, geometric modifications to key intersections, traffic operations improvements and the addition of pedestrian, bicycling and transit access.

WHEREAS: The purpose of the study is consistent with the goals and objectives of the City of Lynchburg's *Comprehensive Plan*.

NOW THEREFORE BE IT RESOLVED by the Lynchburg Planning Commission that in order to promote the public necessity, convenience, general welfare and good zoning practice the Planning Commission does hereby initiate, will consider and directs City staff to participate in the preparation of the Route 221 Safety Improvement Study for inclusion in the Transportation Element of the City of Lynchburg *Comprehensive Plan*.

Adopted: _____

Certified: _____

Secretary, Lynchburg Planning Commission

Project Introduction

Route 221 Corridor Safety Study

January 8th, 2014

***Bill Wuensch, P.E., PTOE
EPR***

Presentation Agenda

Agenda

Project Overview

Public input

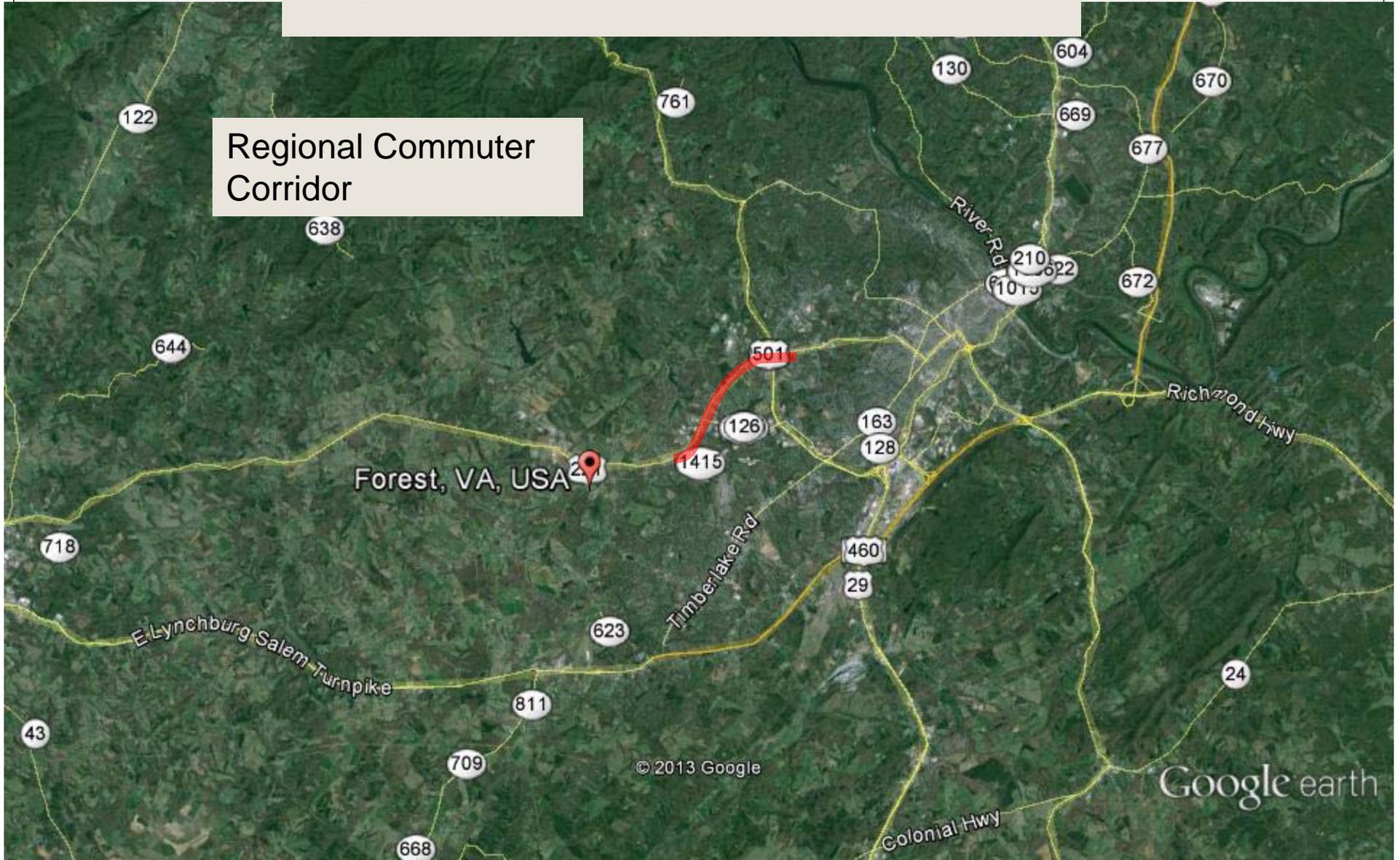
Final study product

Project Schedule

QUESTIONS AND ANSWERS

Route 221

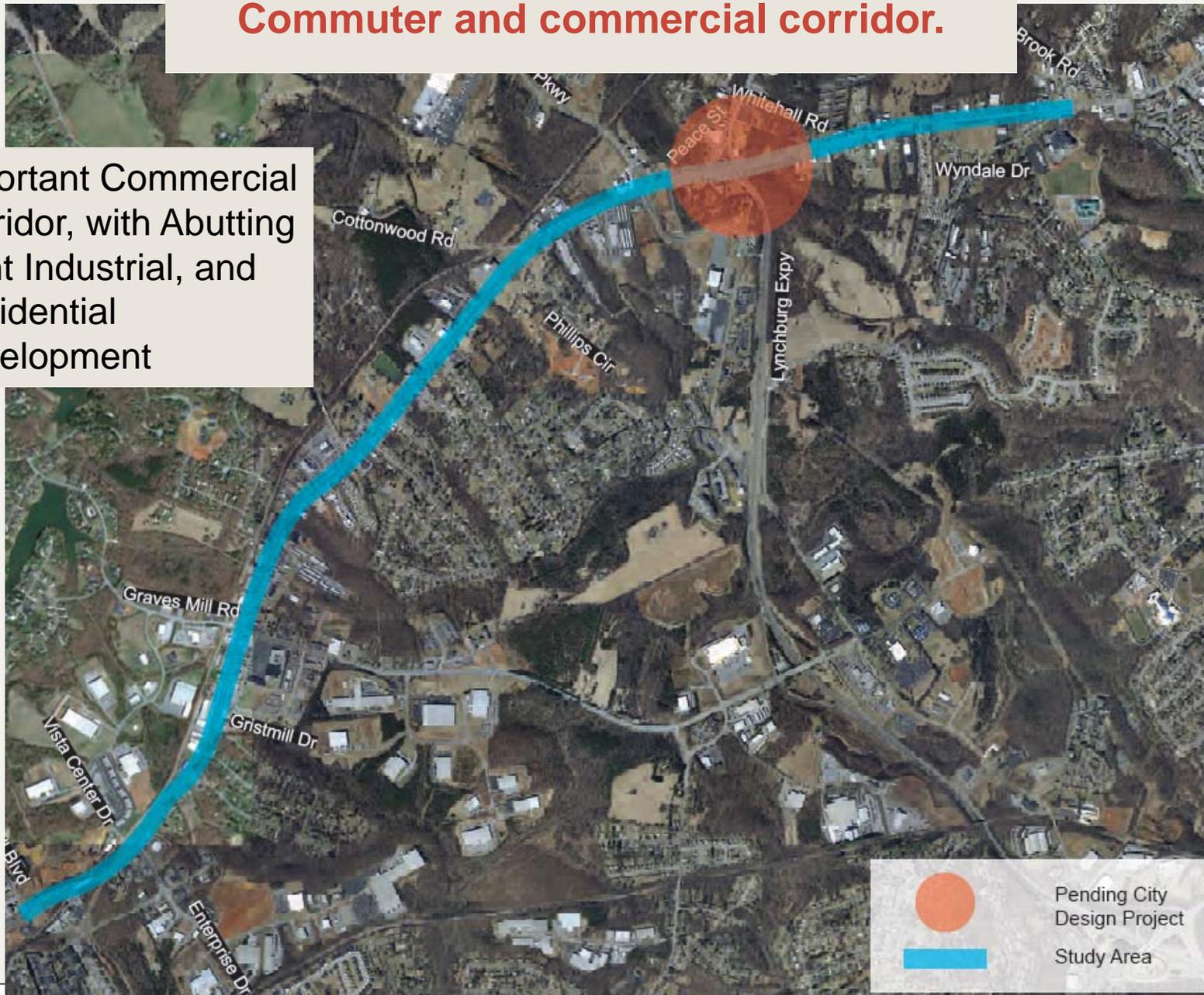
Commuter and commercial corridor.



Route 221

Commuter and commercial corridor.

Important Commercial Corridor, with Abutting Light Industrial, and Residential Development



Route 221

- Congested
- Not multimodal
- Unorganized
- Safety??

- Typical varies on each end, but largely 5 lanes
- 9 signalized intersections
- 15 unsignalized intersections
- ~140 commercial entrances
- 27k to 17k ADT



Scope of Work

Task 1 – Data Collection (traffic data, crash statistics, mapping)

Task 2 – Existing and Future Conditions Analysis

Task 3 – Initial Public Meeting

Task 4 – Identification of Improvement Strategies and Projects

Task 5 – Second Public Meeting

Task 6 – Prepare Draft Document

Task 7 – Prepare Final Document

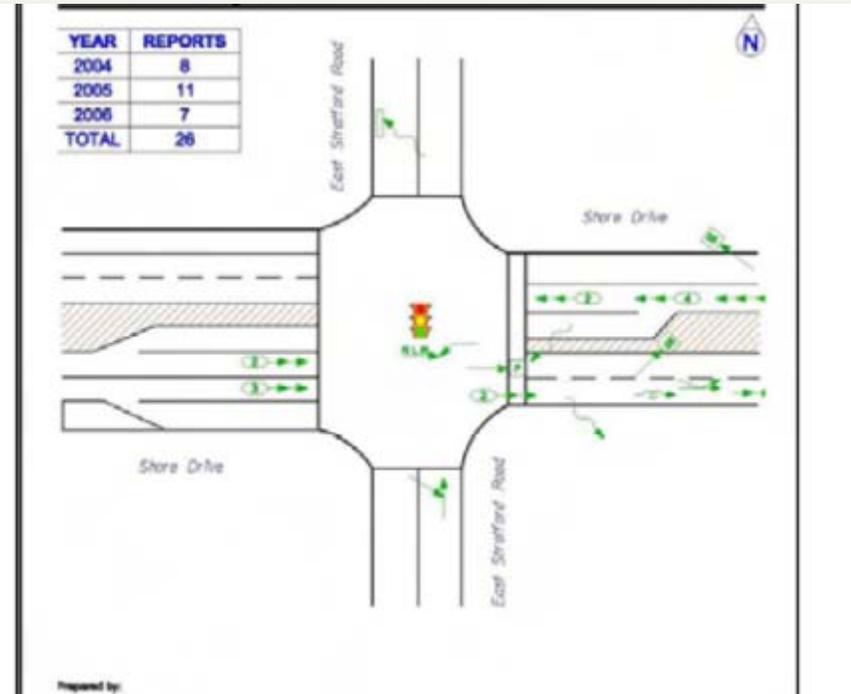
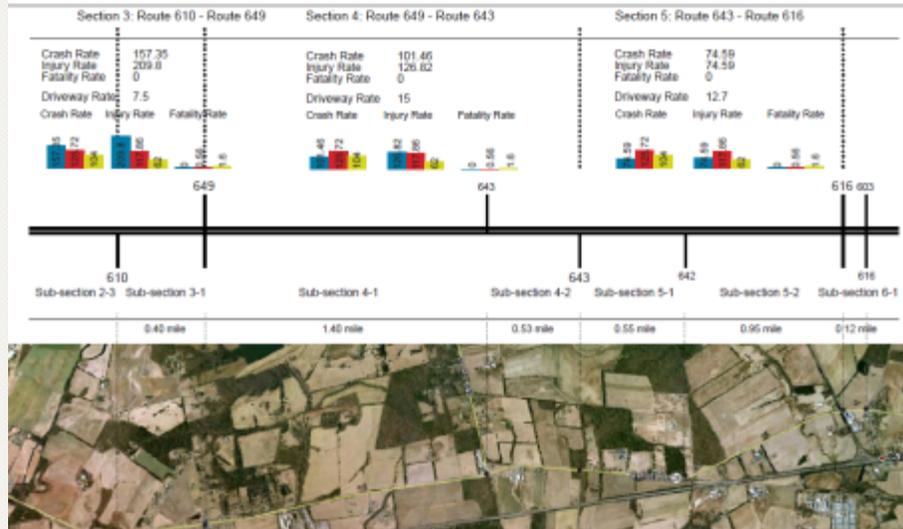
Traffic Analysis

Model existing and proposed conditions.

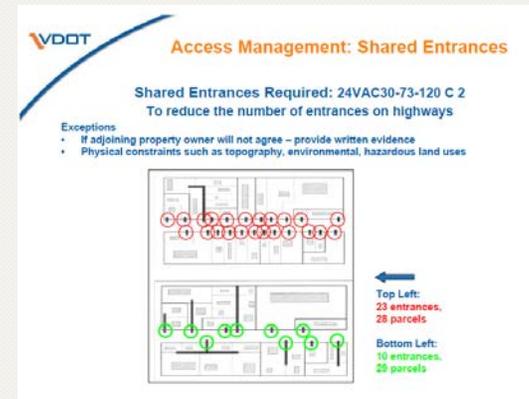


Safety Analysis

Map Crashes Along the Corridor – calculate segment and intersection crash rates to compare. Identify “hot spots”



Highway Functional Classification	Legal Speed Limit (mph)Ⓛ	Minimum Centerline to Centerline Spacing (Distance) in Feet			
		Spacing from Signalized Intersections to Other Signalized Intersections Ⓛ	Spacing from Unsignalized Intersections/Crossover to Signalized or Unsignalized Intersections/Crossovers Ⓛ	Spacing from Full Access Entrances to Other Full Access Entrances and Any Intersection on Highways Without Restrictive Medians Ⓛ	Spacing from Partial Access One or Two Way Entrances to Any Type of Entrance, Intersection or Crossover Ⓛ
Principal Arterial	≤ 30 mph	1,050	880	440	250
	35 to 45 mph	1,320	1,050	565	305
	≥ 50 mph	2,640	1,320	750	495
Minor Arterial	≤ 30 mph	880	660	355	200
	35 to 45 mph	1,050	660	470	250
	≥ 50 mph	1,320	1,050	555	425



Public Meetings

First Public Meeting

Engage the public and stakeholders.

1. Project introduction / purpose
2. Share crash and traffic information
3. Solicit public input on Issues and opportunities
 - a. Corridor/Intersection Safety
 - b. Congestion Reduction
 - c. Multimodal (walk/bike/transit)
 - d. Safer site access



Draft Recommendations

- ✓ **Identify congestion reduction strategies (intersection improvements, ITS, other TBD)**
- ✓ **Identify intersection, roadside, and road link safety improvement strategies and projects (turn lanes, signs, markings, guardrail, other)**
- ✓ **Identify desired multimodal improvement opportunities (sidewalks, trails, transit stops, bicycle accommodations)**
- ✓ **Identify an access management plan and recommendations (medians, driveway consolidation, new connections, others TBD)**

Public Meetings

Second Public Meeting

Re-engage the public and stakeholders.

1. Review input from the first meeting
2. Present “draft” recommendations
3. Receive feedback



Final Study

- ✓ **Congestion mitigation projects**
- ✓ **Safety projects**
- ✓ **Multimodal projects**
- ✓ **Access management suggestions**
- ✓ **Implementation strategies/tool box**
- ✓ **Summary of public process**

Project Schedule

Project Schedule - Route 221 Corridor Safety Study (12-31-13)

Task	Month	November				December				January				February				March				April				May				June			
	Week	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Task 1 - Data Development and Mapping		k		S/B																													
Task 2 - Existing and Future Conditions Analysis										S/L																							
Task 3 - Initial Public Meeting (1/30/14)													P																				
3.a - meeting advertisement (draft on 12/31/13 and final on 1/9/14)																																	
3.b - send announcements (Jan 15th)																																	
3.c - draft presentation material review (week of the 20th - date tbd)												TS																					
3.d - debrief meeting (feb 1)													S																				
Task 4 - Identification of Improvement Strategies and Projects																				B/LS													
Task 5 - Second Public Meeting (3/27/14)																				P													
5.a - advertisement (draft by 2/28/14 and final by 3/6/14)																																	
Task 6 - Prepare Draft Document																									S								
Task 7 - Prepare Final Plan																													S				

K= kickoff meeting, P=public meeting, S=in person project meeting (team), TS - telephone project meeting, L - Lynchburg PC or BOS, B - Bedford PC or BOS

Safety Improvement Study: Route 221 Corridor

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