

# Tilly Mill Road at North Peachtree Road

March 12, 2012

**Dunwoody**   
\* Smart people - Smart city



G R E S H A M  
S M I T H A N D  
P A R T N E R S

# Gresham, Smith and Partners

- Jay Bockisch, P.E., PTOE
- Jody Braswell, P.E.



# Presentation Agenda

- Alternatives Considered
- Recommended Improvements
- Public Comments
- Other Considerations
- Traffic Simulation
- Next Steps

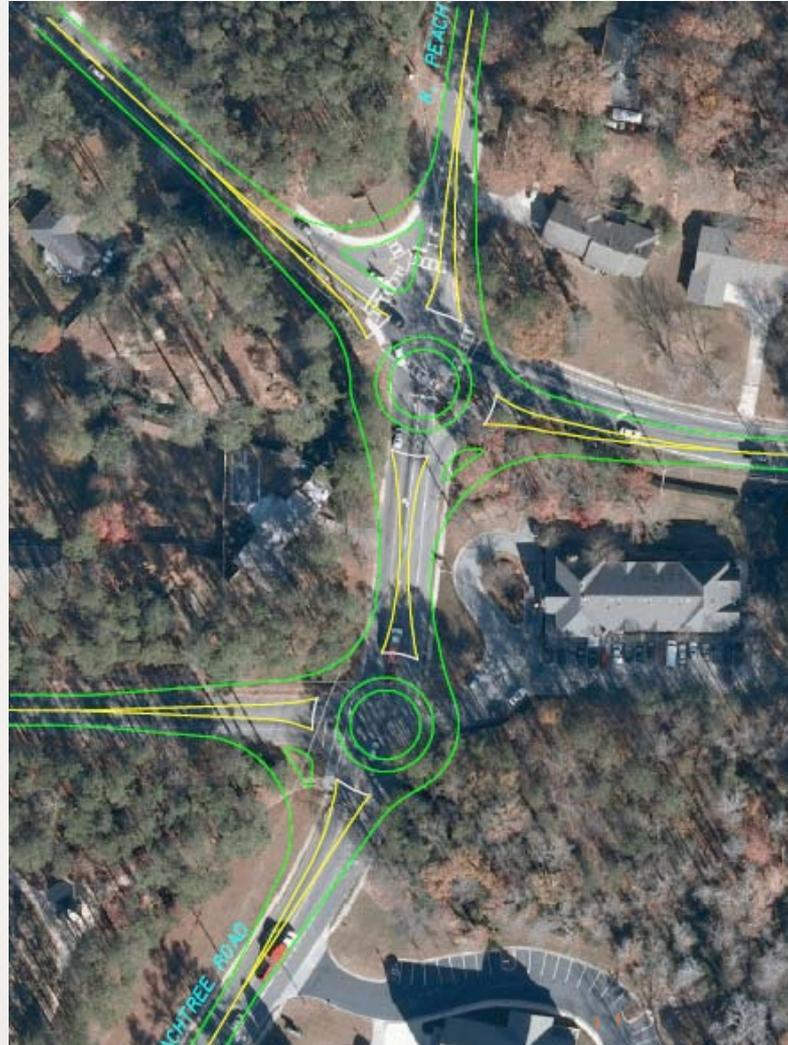
# Alternatives Considered

- Three Roundabout Alternatives
  - Multiple roundabouts
  - Combined roundabout – 5 legs
  - Roundabout at Tilly Mill only
- One Traditional Intersection Alternative
  - Turn lane improvements
  - Peeler considerations

# Multiple Roundabouts

- Closely spaced intersections
- Single lane due to spacing

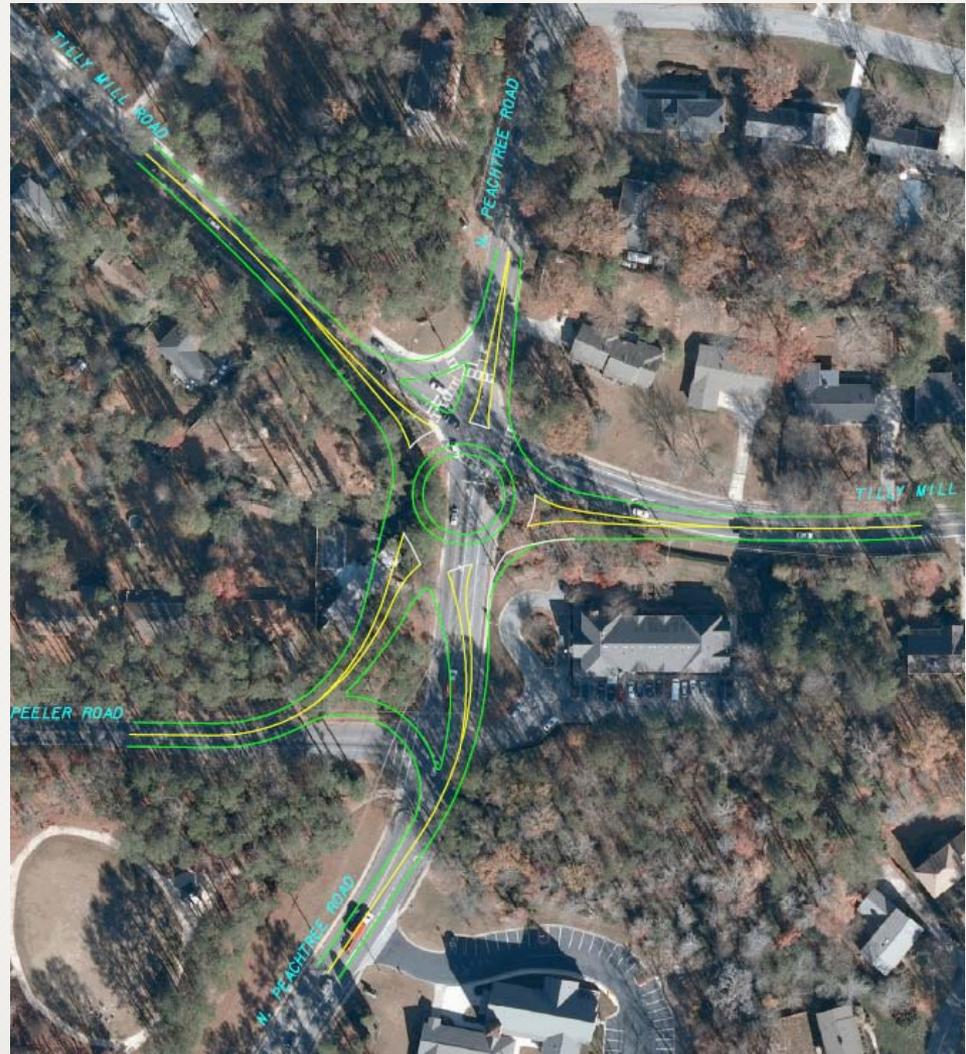
Criteria	
Design Year LOS	F/C
Cost	\$1,200,000
Displacements	0
Required ROW/Easements	0.5 acres
Operational Issues	Queue spillback between intersections



# Combined Roundabout

- 1 combined intersection
- 5 legs
- Multi-lane roundabout

Criteria	
Design Year LOS	D
Cost	\$3,700,000
Displacements	4
Required ROW/Easements	1.5 acres
Operational Issues	Driver expectancy - requires multi lanes



# Roundabout at Tilly Mill Only

- Roundabout at Tilly Mill
- Multi-lane roundabout
- Peeler stop sign controlled

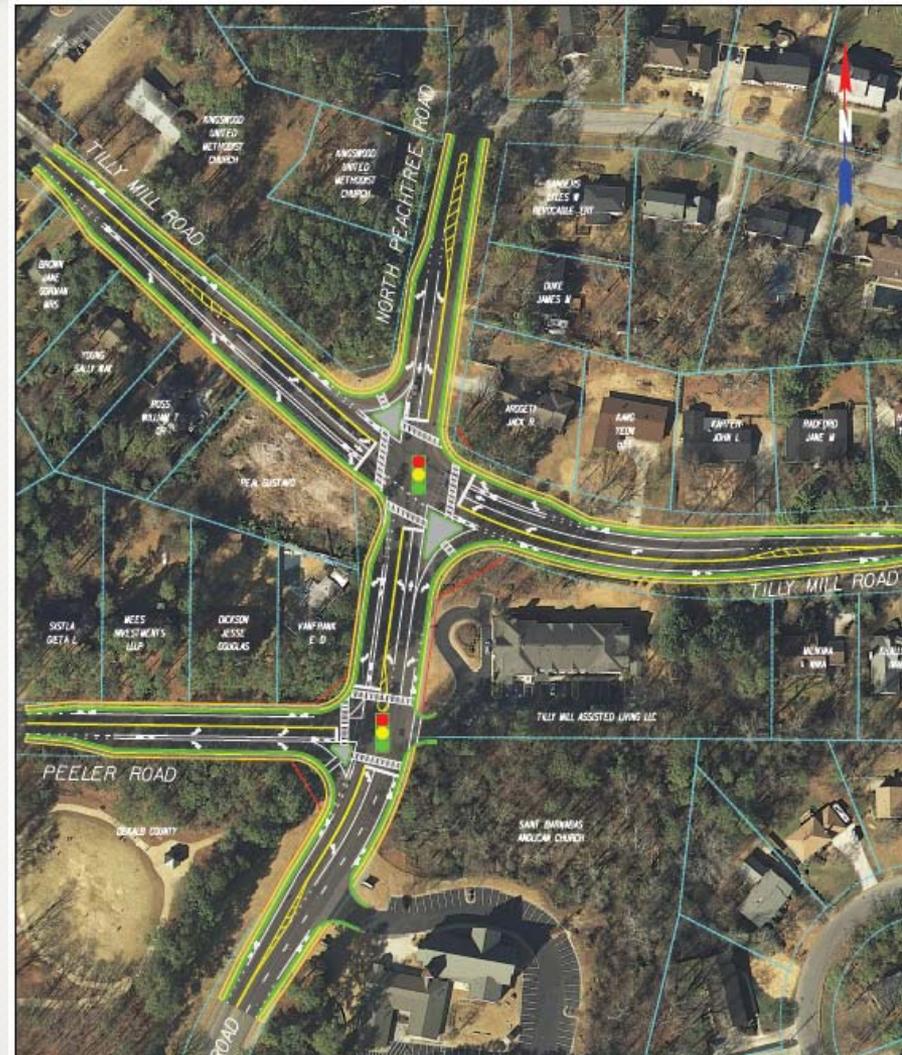
Criteria	
Design Year LOS	D/F
Cost	\$2,300,000
Displacements	1
Required ROW/Easements	1.0 acres
Operational Issues	Driver expectancy - requires multi lanes



# Traditional Turn Lanes

- Left and right turn lanes at each approach
- Turn lanes sized to accommodate queues

Criteria	
Design Year LOS	D/B
Cost	\$1,600,000
Displacements	0
Required ROW/Easements	0.8 acres
Operational Issues	Need to consider traffic control options at Peeler



# Alternatives Considered

Criteria	Separate Roundabouts	Combined Roundabout	Roundabout at Tilly Mill	Traditional Turn Lanes
Design Year LOS	4 <sup>th</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup>
Cost	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>
Displacements	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	1 <sup>st</sup>
Required ROW/Easements	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>
Operational Issues	4 <sup>th</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup>



Recommended Alternative



# Public Comments from PIOH

- 35 Provided Comments
- 19 Support / Conditionally Support
- 9 Uncommitted
- 7 Oppose

## Comments/Concerns:

- “Outside” traffic (college, other Cities)
- Coordinated signals
- Adequate turn lane lengths



41 Perimeter Center East, Suite 250  
Dunwoody, Georgia 30046  
P (678) 382-6700 F (678) 382-6701  
dunwoodyga.gov

### CITY OF DUNWOODY DEPARTMENT OF PUBLIC WORKS

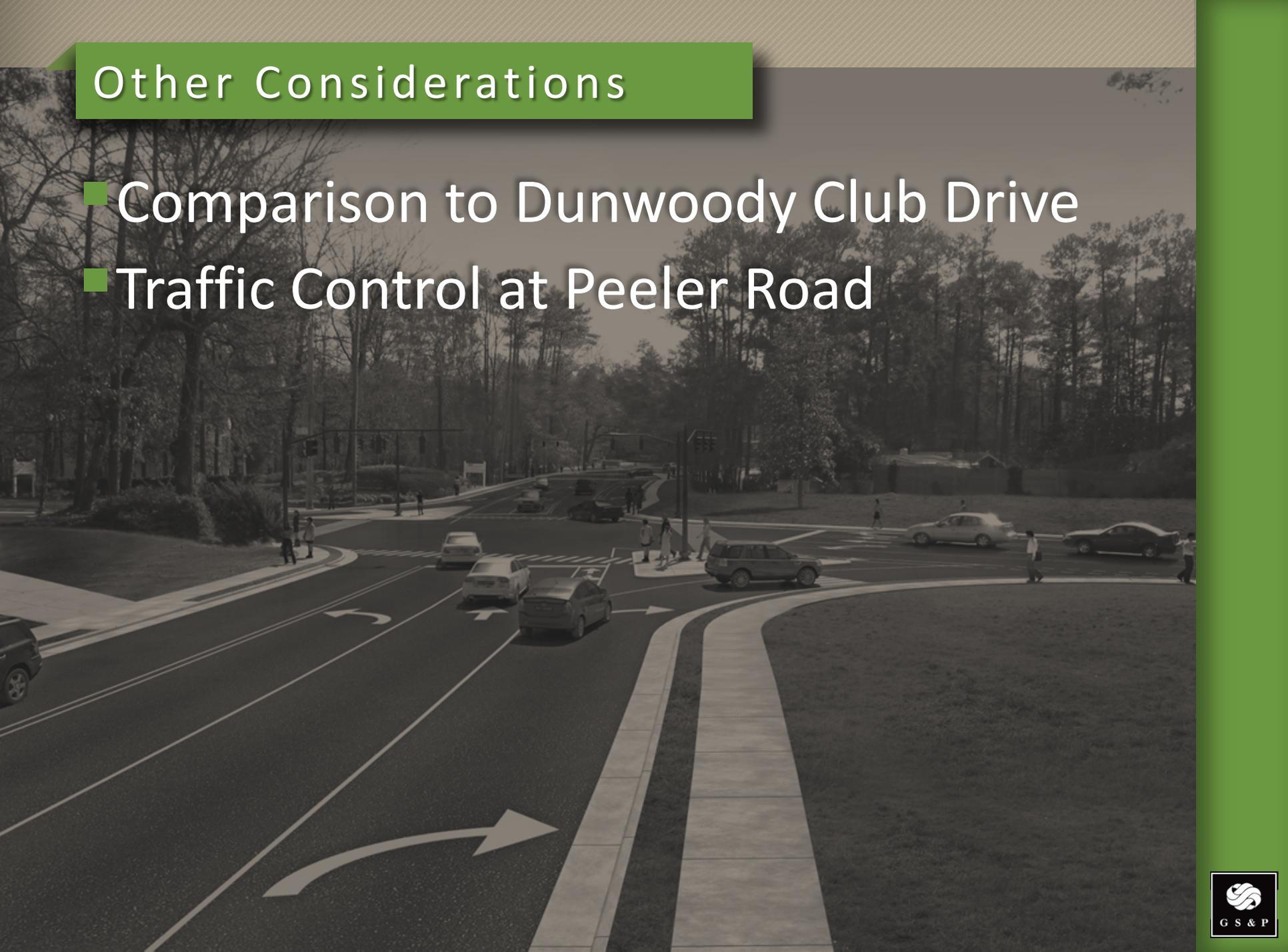
#### Intersection of North Peachtree Road and Tilly Mill Road Safety and Operational Improvements

##### Public Information Open House January 19, 2012

- BACKGROUND:** The purpose of this project is to provide safety and operational improvements to the intersection of Tilly Mill Road with North Peachtree Road and the intersection of Pecker Road with North Peachtree Road through the addition of turning lanes, bicycle lanes, sidewalk, and traffic signals.
- PROJECT LIMITS:** The project limits extend along Tilly Mill Road 560 ft. west from the North Peachtree Road intersection at Kingswood United Methodist Church to 600 ft. east of the intersection. The limits of the project span along North Peachtree Road 360 ft. south of the Pecker Road intersection at Saint Barnabas Anglican Church to 400 ft. north of the Tilly Mill Road intersection. The project limits along Pecker Road begin 400 ft. west of the intersection with North Peachtree Road and end at the intersection.
- PROJECT LENGTH:** The length of this project is 0.22 miles along Tilly Mill Road, 0.20 miles along North Peachtree Road, and 0.08 miles along Pecker Road.
- PROJECT SCOPE:** The project consists of improving both intersections with adding and lengthening left and right turning lanes on all approaches. Bicycle lanes (except on the North leg of North Peachtree Road) and sidewalks will also be added on both sides of each roadway. A traffic signal will be placed at the intersection of North Peachtree Road and Pecker Road in addition to the existing traffic signal at the intersection of Tilly Mill Road and North Peachtree Road.
- PROJECT SCHEDULE:** Right-of-Way: Fall 2012  
Construction: Summer 2013  
Open to Traffic: Fall 2014

# Other Considerations

- Comparison to Dunwoody Club Drive
- Traffic Control at Peeler Road



# Issue #1: Comparison to Dunwoody Club

- Distance
- Traffic Volumes
- Turn Lanes & Capacity
- Traffic Signal Operations



# Comparison to Dunwoody Club

<b>Criteria</b>	<b>Dunwoody Club Area</b>	<b>North Peachtree / Tilly Mill</b>
Distance	Lower – 165'	Greater – 320'
Traffic Volumes	Greater – 54,700 ADT	Lower – 47,300 ADT
Turn Lanes & Capacity	Lower	Greater
Traffic Signal Operations	Complex – 5 Legs	Simpler – 2 Coordinated Intersections

## Issue #2: Comparison of Traffic Control Options at Peeler Rd

Criteria	Stop Sign (Existing Condition)	Prohibited Lefts	Signalized Lefts
Traffic Diversions	Small decrease of traffic from Peeler due to delay	Significant diversions of lefts – no good alternative route	Minimal increase of traffic to Peeler
Enforcement	Self-Enforcing	Significant Enforcement Required	Self-Enforcing
Design Year Peak Hour Level of Service on Peeler	F	A	C
Safety	Less safe due to minimal gaps in mainline traffic	Very safe except for violators	Safer for Peeler – Potential for small increase in crashes along N Peachtree

# Traffic Simulation



# Presentation Agenda

- Next Steps
  - Complete Concept
  - Begin Final Design

