

OBJECTIVE



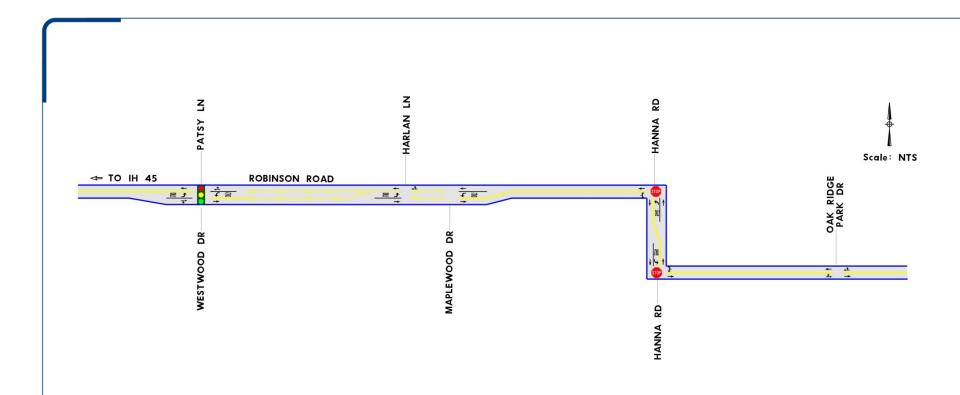
- Background
- Existing Traffic Operations
- Analysis Results
 - Travel Times
 - Total Delay
 - L Pros & Cons
- VISSIM Simulation / Model Display





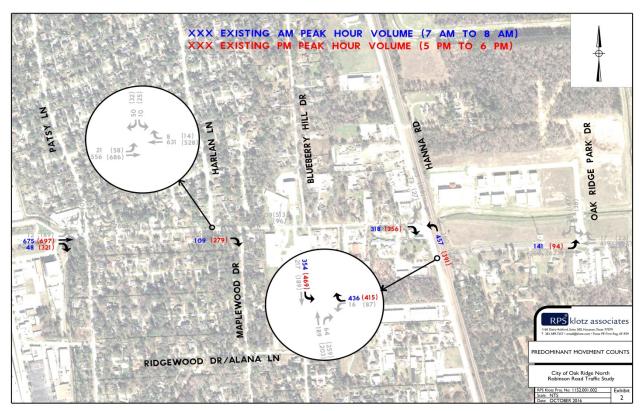
EXISTING CONDITION





EXISTING TRAFFIC VOLUMES





TRAVEL TIME SEGMENTS



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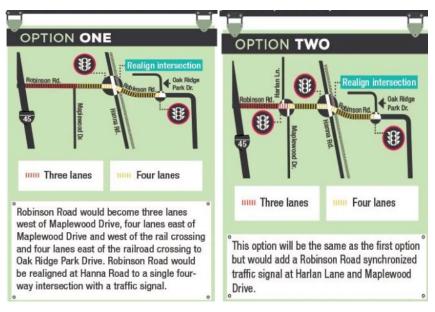
TRAFFIC MODEL – EXISTING CONDITIONS (PM)

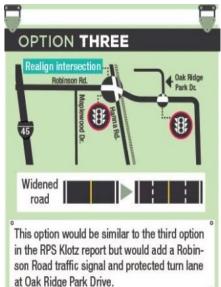


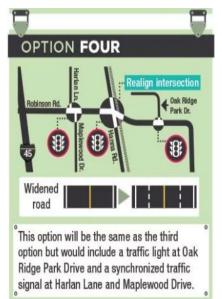


SUB-COMMITTEE OPTIONS



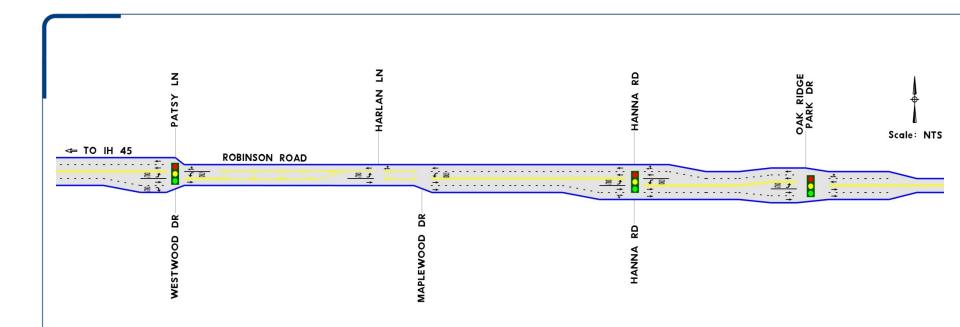






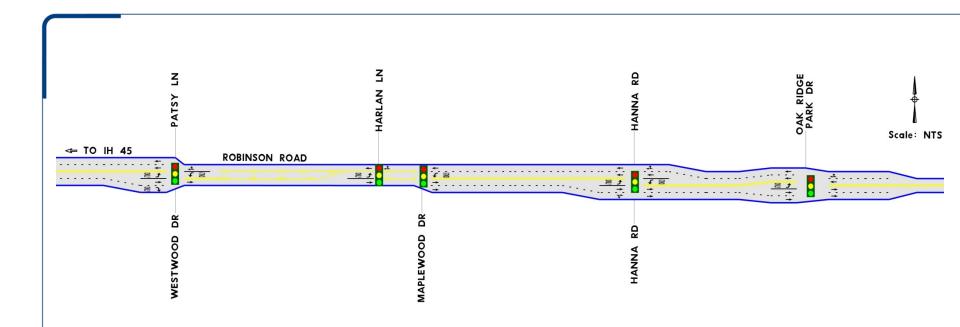
OPTION 1 - CONCEPTUAL LAYOUT





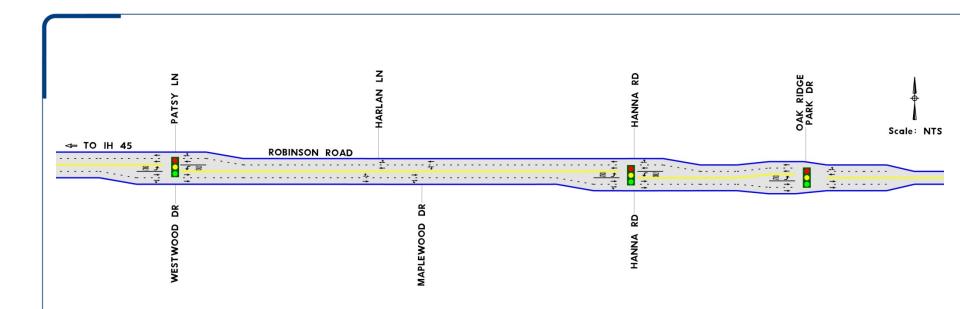
OPTION 2 - CONCEPTUAL LAYOUT





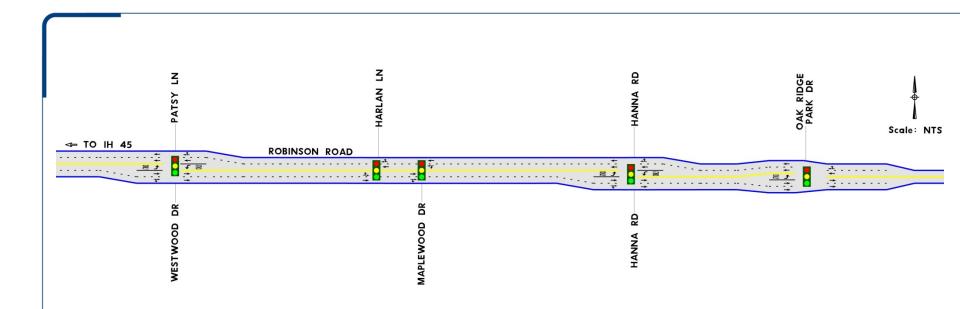
OPTION 3 - CONCEPTUAL LAYOUT





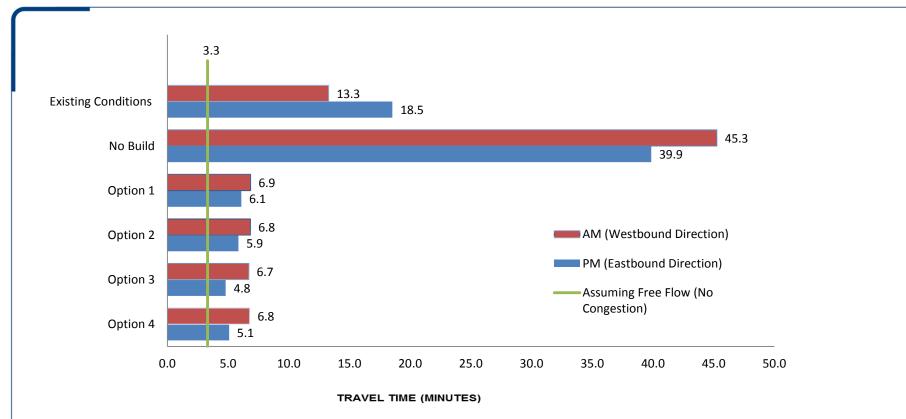
OPTION 4 – CONCEPTUAL LAYOUT





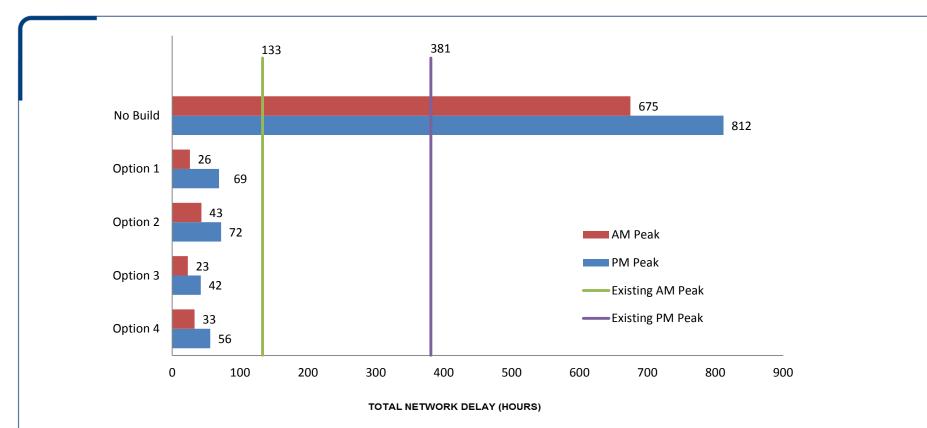
ANALYSIS RESULTS – TRAVEL TIME





ANALYSIS RESULTS -TOTAL DELAY (YEAR 2025)





PROS & CONS OF EACH OPTION



No Build (Do Nothing)

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Cons
Substantial delay and travel time increase
Increased level of cut-through on neighborhood streets
Potential Grid-Lock

Option 1

Pros	Cons		
Two-Way Left-Turn Lane	More potential cut-through traffic		
Less expensive	No lane continuity, lane drops		
Shorter construction timeline	Less capacity		

Option 2

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Pros	Cons
Similar to Option 1	Similar to Option 1
	Additional signals cause further delay to Robinson Road traffic
	Increased delay on Harlan & Maplewood

Option 3

Pros	Cons		
Less overall delay and travel times	Design constraints/challenges		
Phased Construction	More expensive		
Reduced cut-through traffic. More capacity	No dedicated turn lane between major intersections		

Option 4

Pros	Cons
Similar to Option 3	Similar to Option 3
	Additional signals cause further delay to Robinson Road traffic
	Increased delay on Harlan & Maplewood

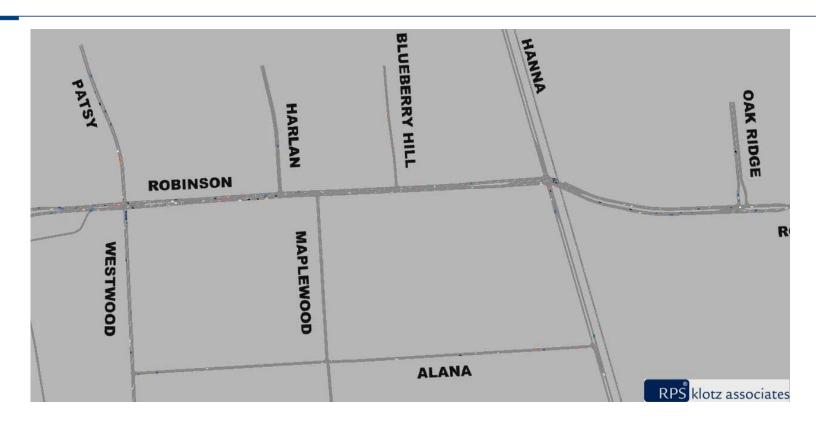
BENEFIT COST ANALYSIS



Evaluation Factor	Option 1	Option 2	Option 3	Option 4
Annual Economic Savings (\$)	\$7,697,760	\$7,587,160	\$7,863,660	\$7,730,940
Preliminary Planning-Level Cost Estimate	\$4,700,000	\$5,000,000	\$5,200,000	\$5,500,000
B/C Ratio	14.0	12.9	12.9	12.0

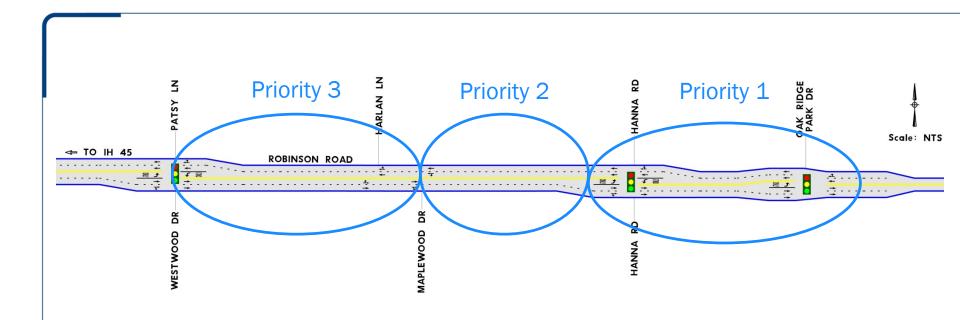
TRAFFIC MODEL - OPTION 3 (PM)





PHASED CONSTRUCTION OF OPTION 3





QUESTIONS/COMMENTS

