



Coordinated Transportation Investment Plan

2010 and 2030 Traffic Forecasts
June 28, 2005

June 28, 2005





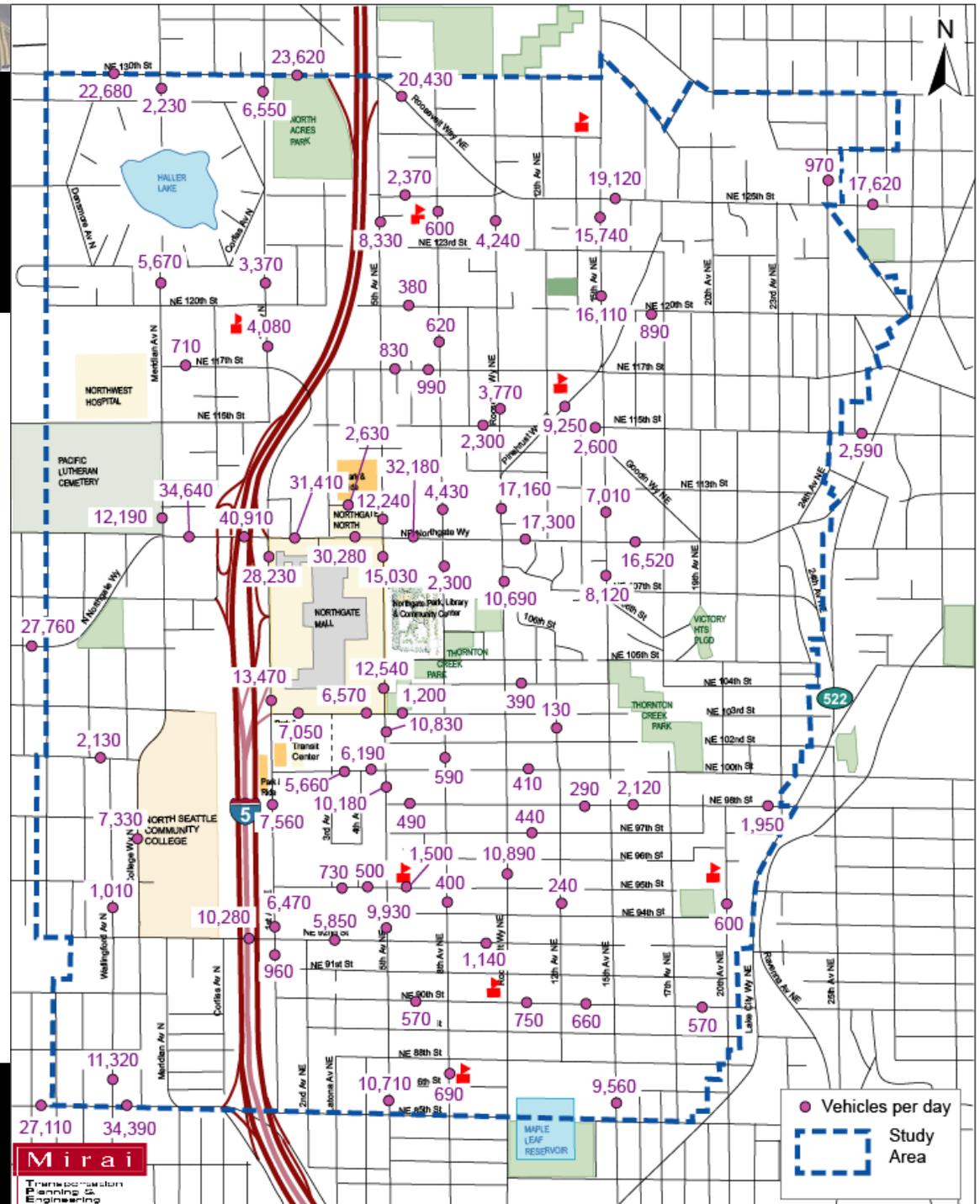
Agenda

- Introduction
 - Status of CTIP
 - Purpose of the meeting
- Existing traffic conditions
- Assumptions
 - Land use assumptions
 - Baseline network assumptions
- 2010 and 2030 traffic forecasts
 - Volumes
 - Intersection levels of service
 - Corridor levels of service

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Existing Traffic Conditions

- 2004/2005 daily traffic volumes



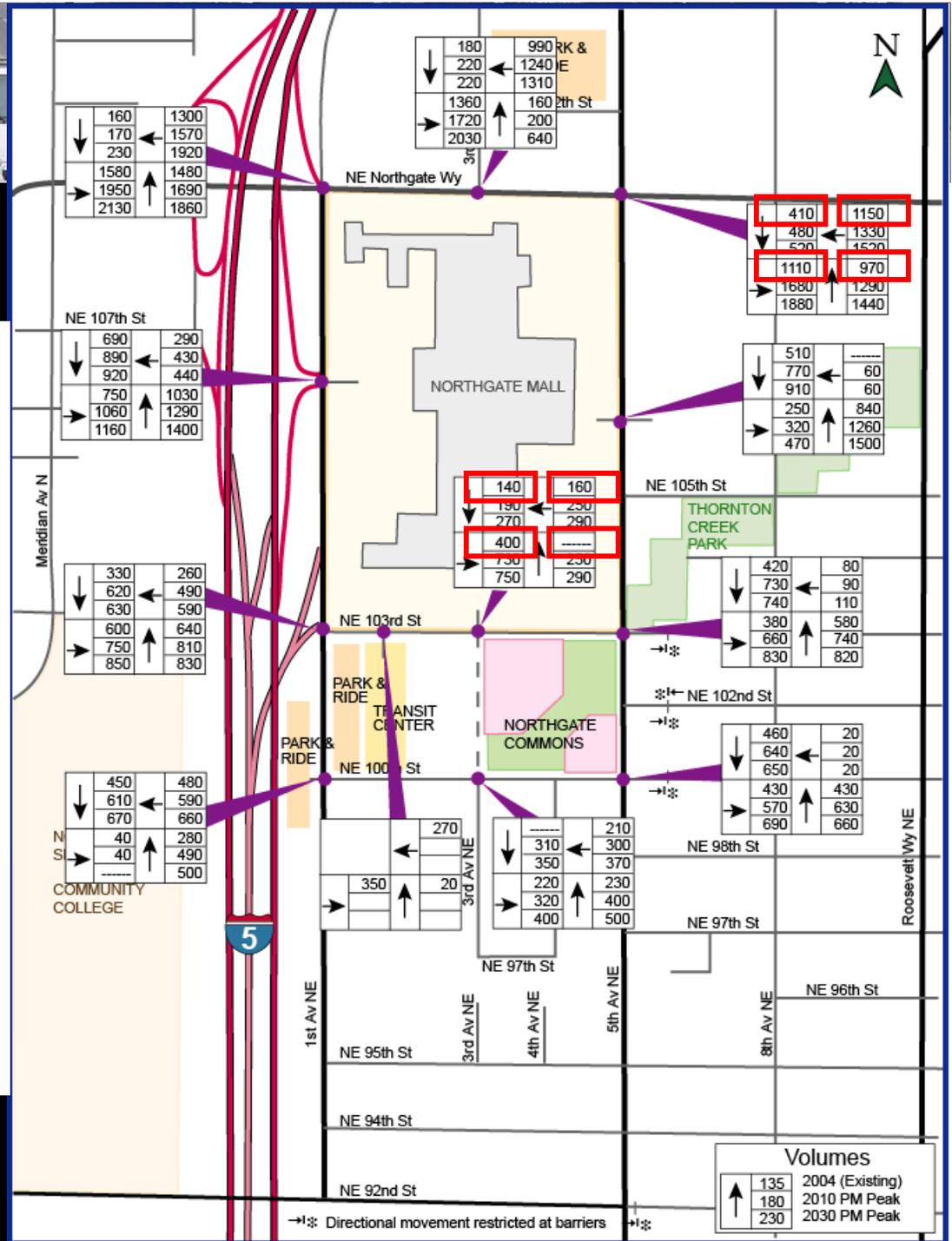
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Mirai

Transportation
Planning &
Engineering

Existing Traffic Conditions

- 2004 PM peak hour intersection volumes
 - Approach volumes
 - Top figure in each box

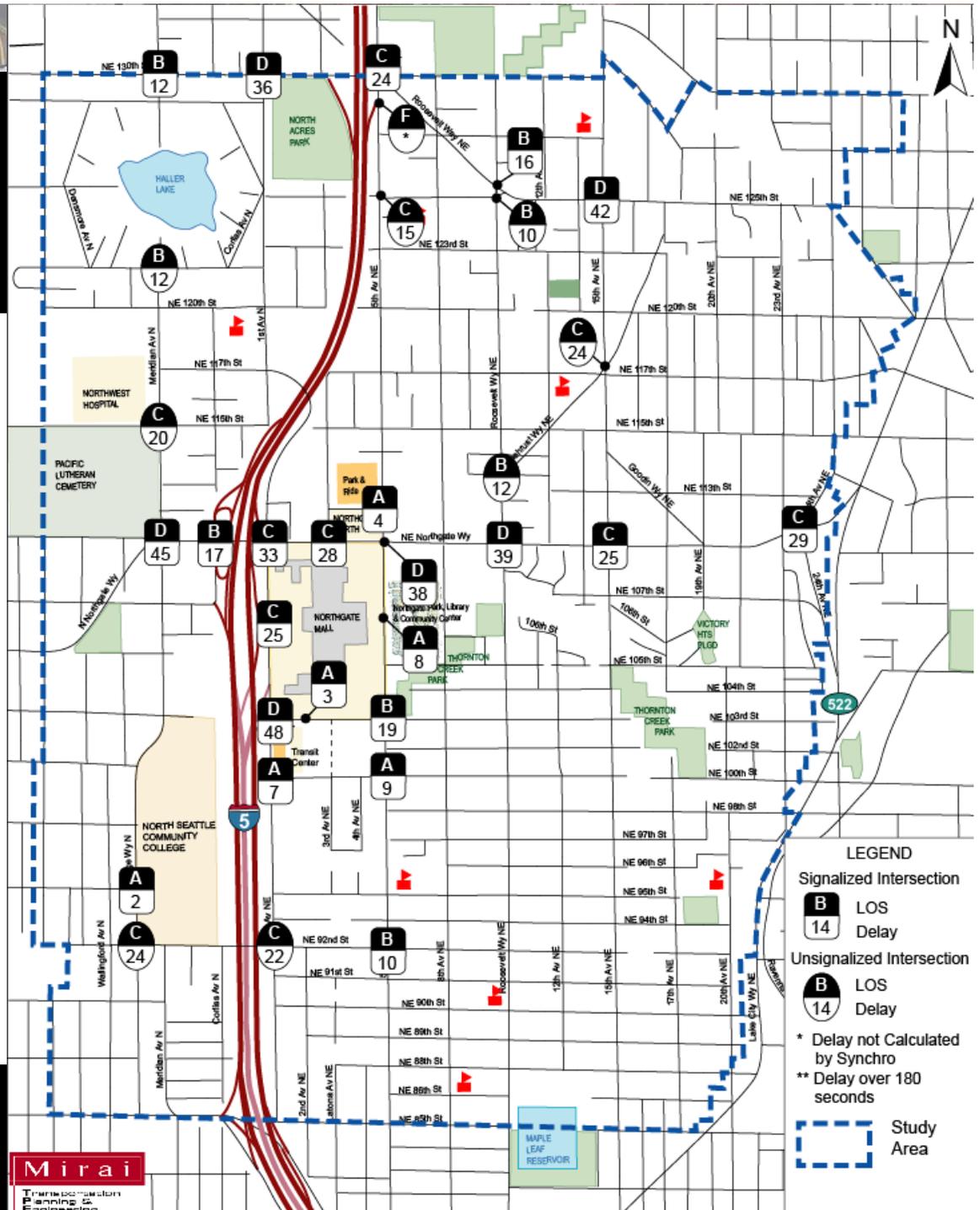


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Existing Traffic Conditions

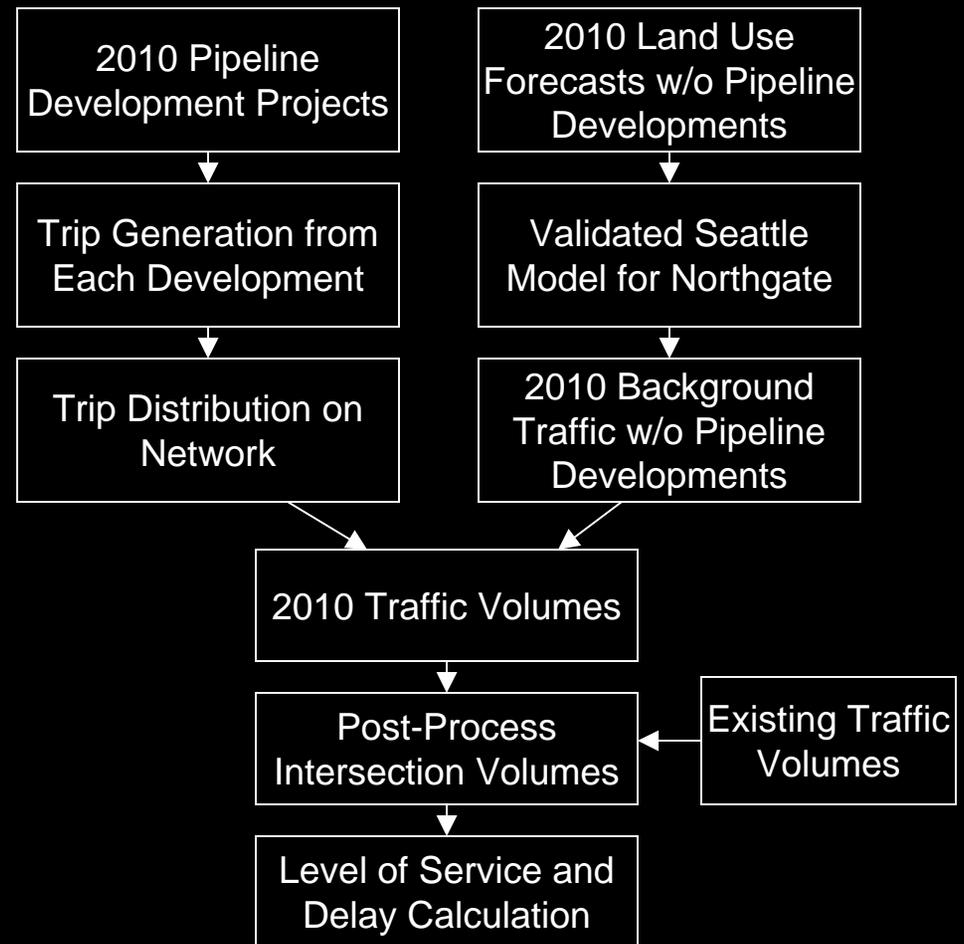
- Existing PM peak hour intersection levels of service and delay
 - Synchro 6
 - Signalized intersection
 - Better than LOS D
 - Unsignalized intersection
 - One LOS F intersection

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2010 Traffic Forecast

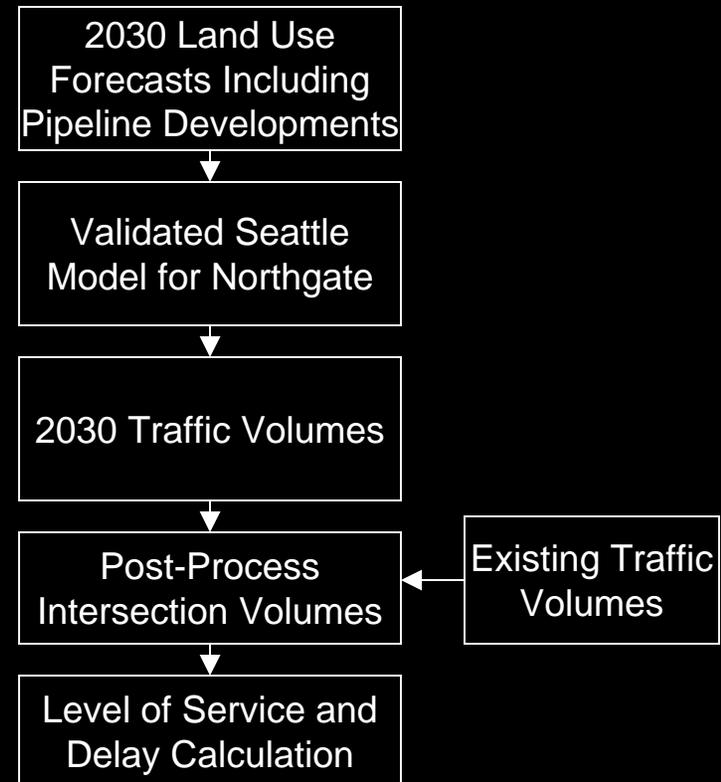
- Seattle Model to obtain background traffic
- Spreadsheet model for pipeline developments
- Combined volumes used for LOS calculation



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2030 Traffic Forecast

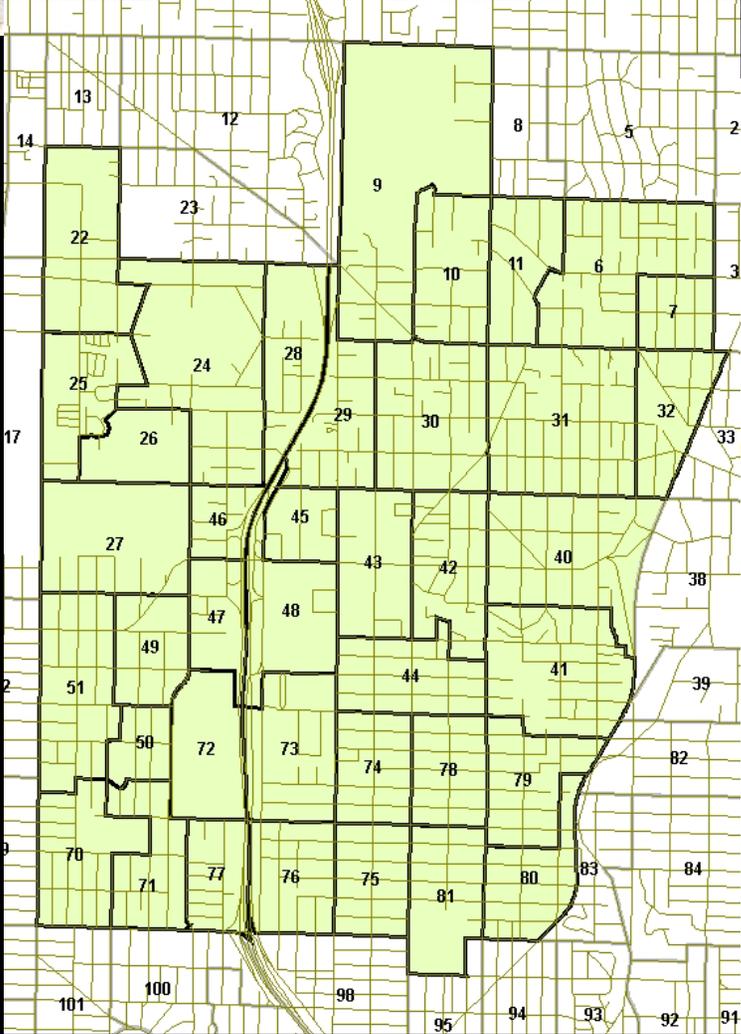
- Seattle Model to obtain 2030 volumes
- Post-processed volumes from Model
- Levels of service/delay calculated





2010 and 2030 Land Use Forecasts

Year	Household	% Increase (2000)	Employment	% Increase (2000)	Full-Time Equivalent Student	% Increase (2000)
2000	13,617	-	16,992	-	4,035	-
2010	15,164	11.4%	19,810	16.6%	4,405	9.2%
2030	19,746	45.0%	27,163	59.9%	5,152	27.7%



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Pipeline Developments



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Pipeline Developments

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Pipeline Projects	Analysis Horizon Year	Use	Area (SF)	Units
Northgate Community Center and Library	2010	Community Center	20,000	
		Library	10,000	
Northgate Mall Expansion	2010	Retail	100,000	
Northgate Commons	2010	Residential (rental)		250 units
		Residential (condo)		110 units
		Residential (senior)		129 units
		Retail	20,000	
		Restaurant (sit-down)	15,000	
		Restaurant (eateries)	15,000	
		Theater		3,260 seats
		KC Metro Park and Ride		400 stalls
King County Northgate TOD	2010	Residential		120 units
		Restaurants	25,000	
		Retail shops	40,000	
	2020	Hotel	46,000	170 rooms
		Restaurants	15,000	
		Retail shops	30,000	
		Residential	75,000	80 units
	2030	Retail	16,000	
		Residential	327,000	340 units
		Health club	24,000	
2010	Daycare	16,000		
	Northgate TC Park and Ride Removal		-296 Stalls	
Wallace Development	CURRENT	Retail	-19,801	
		Retail	-15,620	
		Retail	-15,188	
	2010	Retail New	100,000	
		Residential New		350 units
Mullally Development	CURRENT	Residential		200 units
	2010	Residential Removal		-40 units
		Residential Addition		100 units
	2030	Commercial New	9,000	
		Residential Addition		700 units
Potter Development	CURRENT	Residential		144 units
	2010	Residential Addition		200 units
Northgate Medical Pavilion	2010	Medical office	67,937	



Street Network Assumptions

- 2010
 - New 3rd Ave NE
 - New signal at NE 103rd St/ 3rd Ave NE intersection
- 2030
 - Reduced lanes on 1st Ave NE between NE 103rd St and NE 100 St

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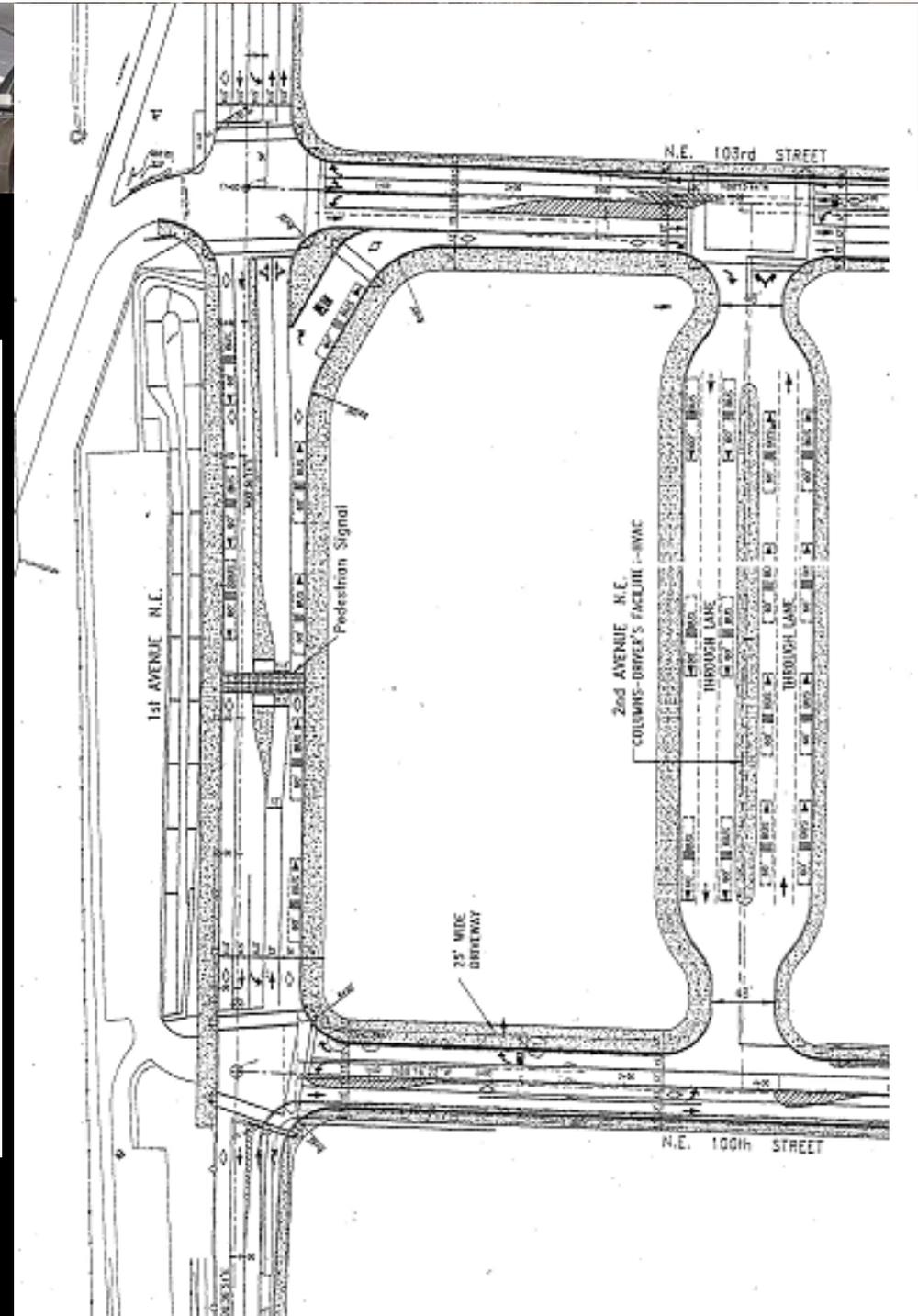




Network Assumptions

- Metro TOD related changes
 - 1st Ave N
 - NE 103rd Street

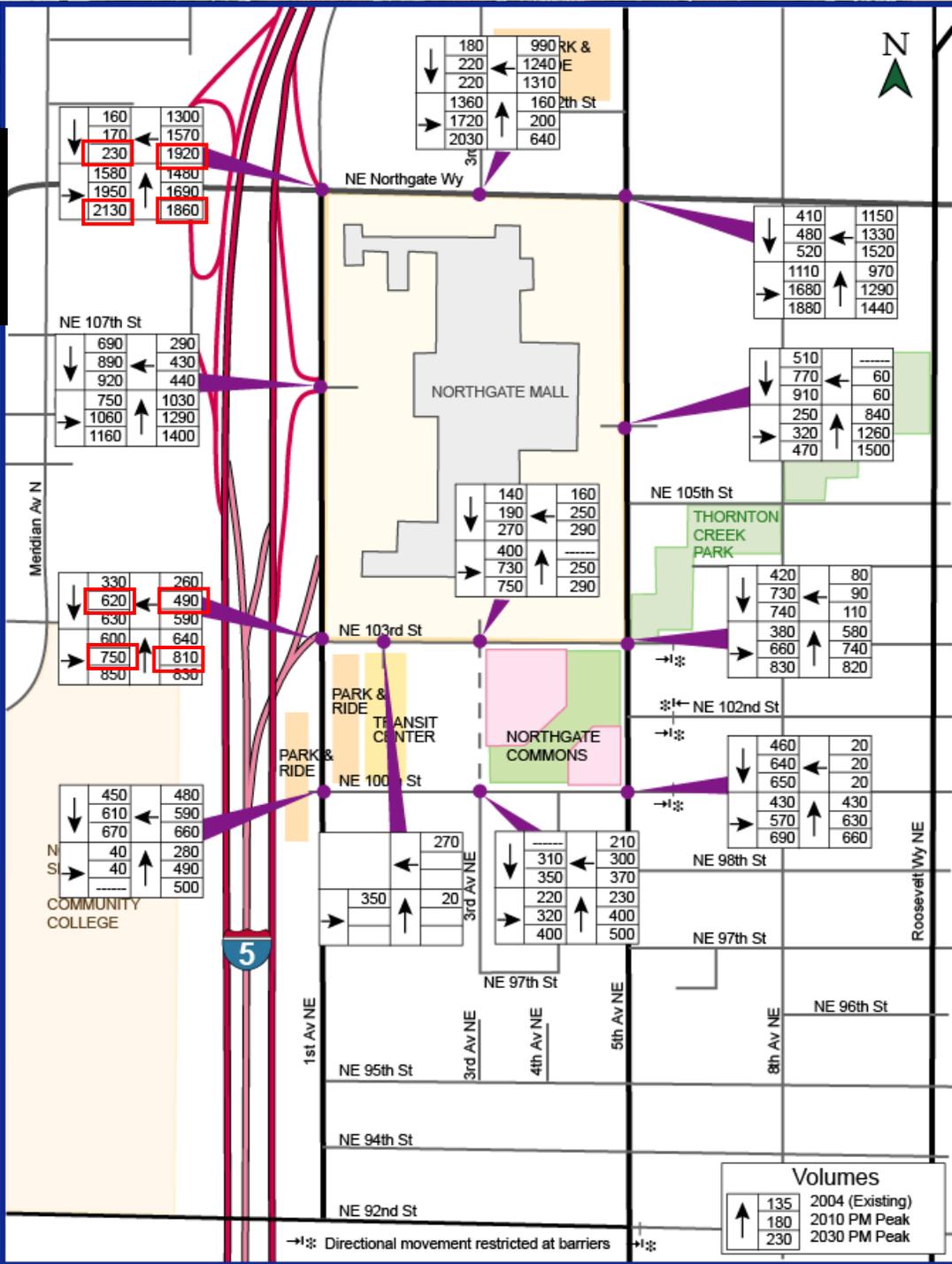
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2010 Volumes

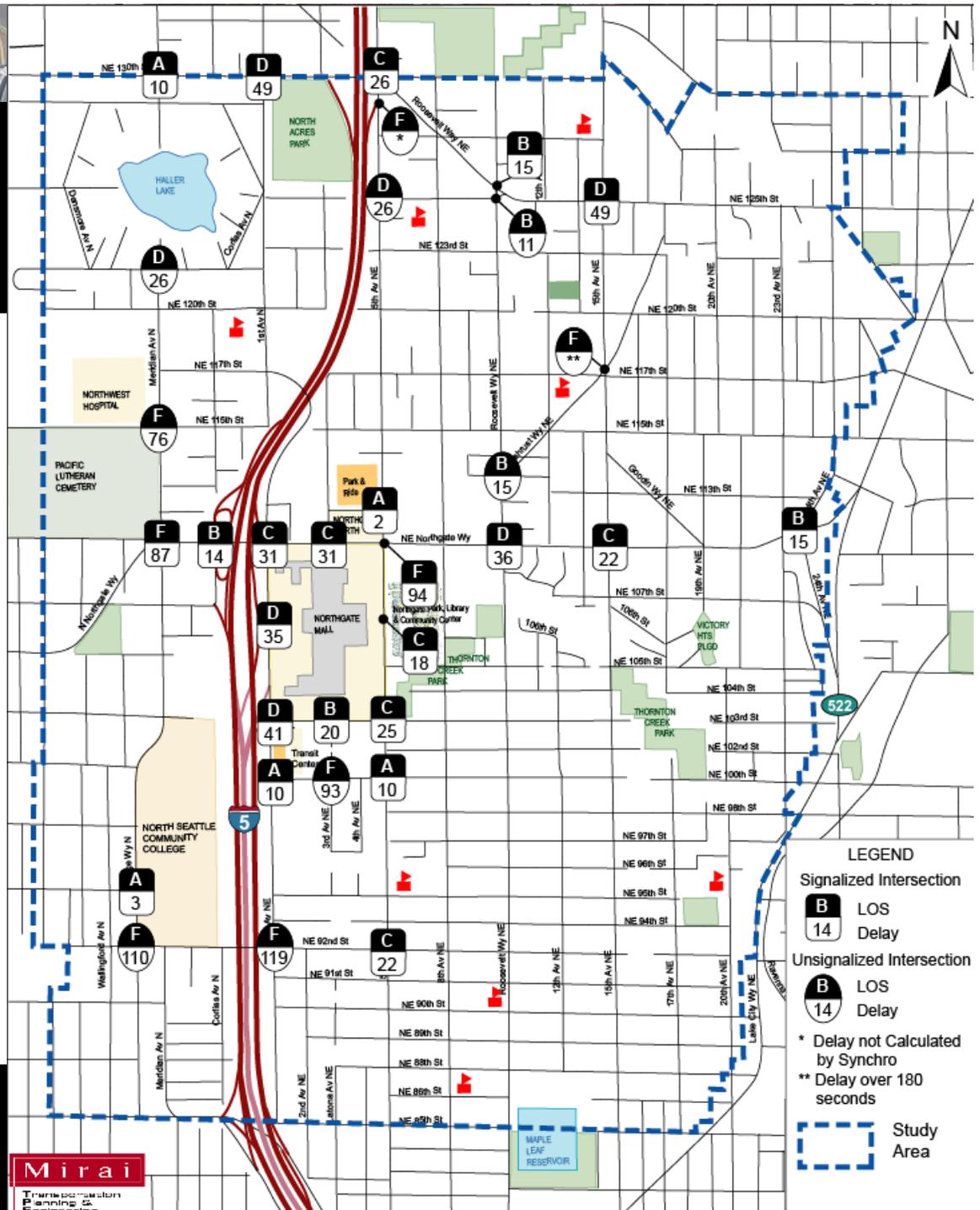
- 2010 approach volumes in the middle of each box
- 2030 approach volumes in the bottom of each box



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2010 Intersection Level of Service

- Two signalized intersections – LOS F
 - Meridian Ave & Northgate Way
 - 5th Ave NE & Northgate Way
- Six unsignalized intersections – LOS F

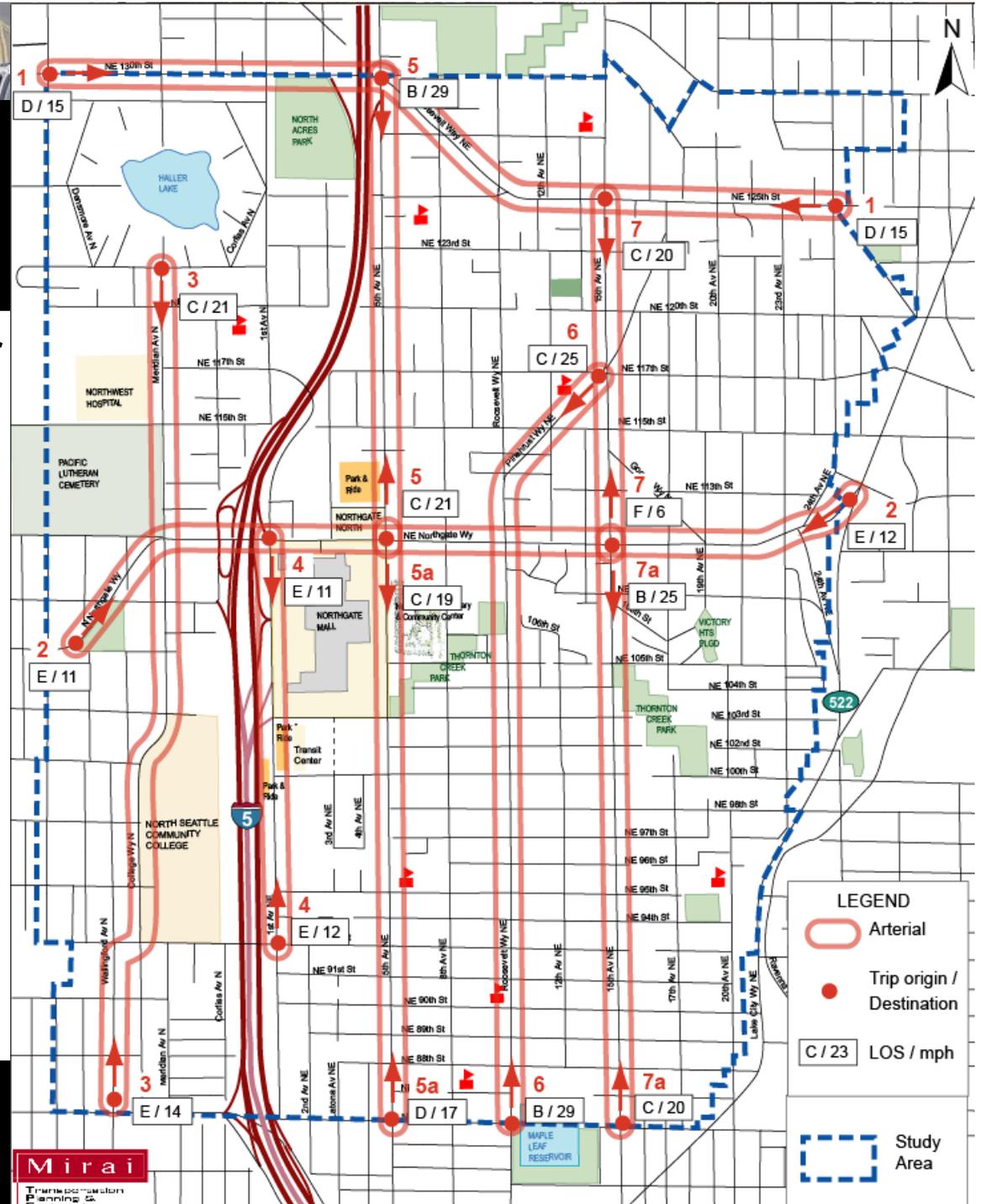


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2010 Corridor Level of Service

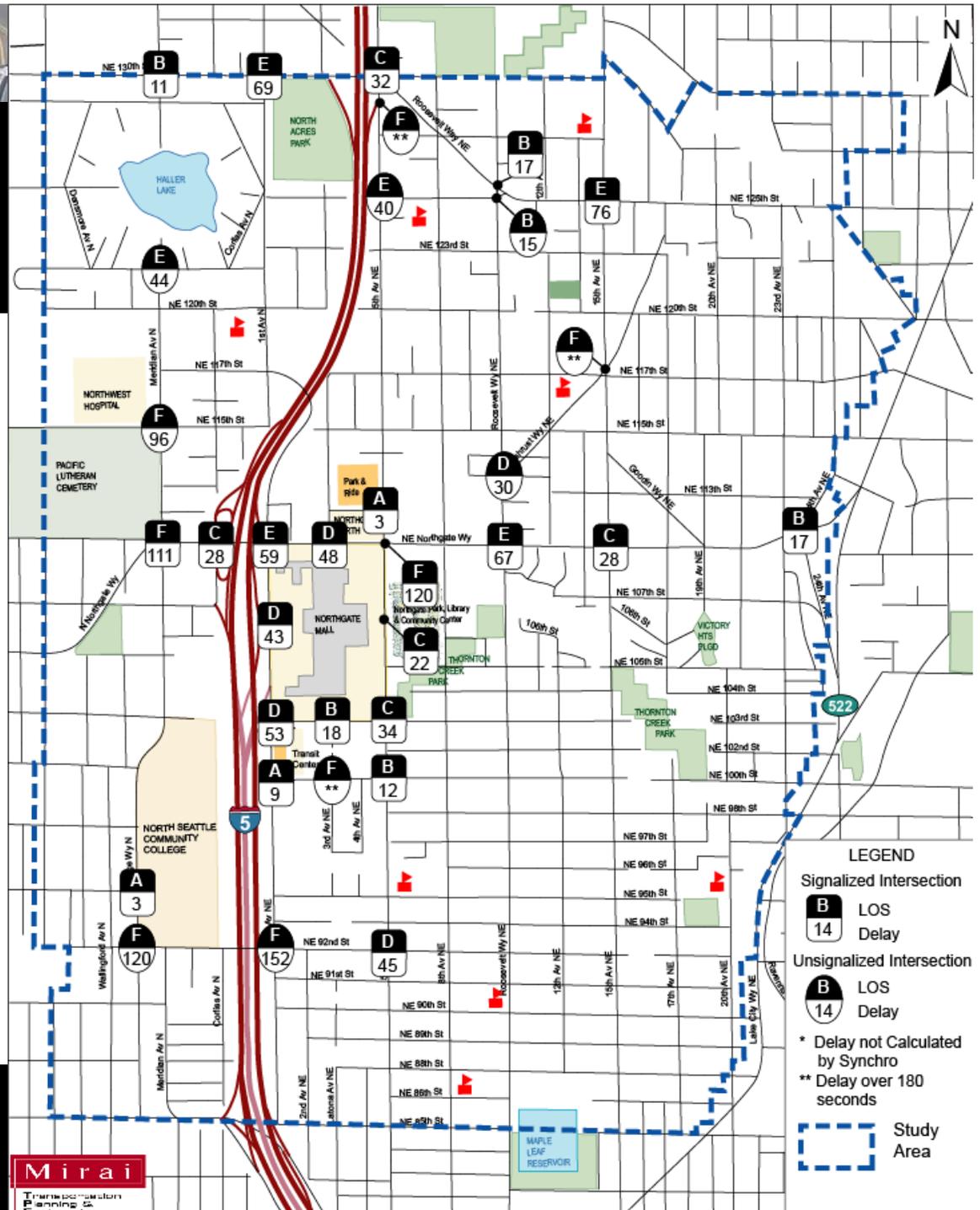
- One LOS F corridor
 - NB 15th Ave N, N of Northgate Way
- Five LOS E corridors
 - WB and EB Northgate Way
 - NB Wallingford Ave / College Way / Meridian Ave
 - NB and SB 1st Ave N

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2030 Intersection Level of Service

- Two signalized intersection – LOS F
 - Meridian Ave & Northgate Way
 - 5th Ave NE & Northgate Way
- Six unsignalized intersections – LOS F



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