### Lackawanna Redevelopment Plan Summary of Traffic Study

February 9, 2023



### Agenda

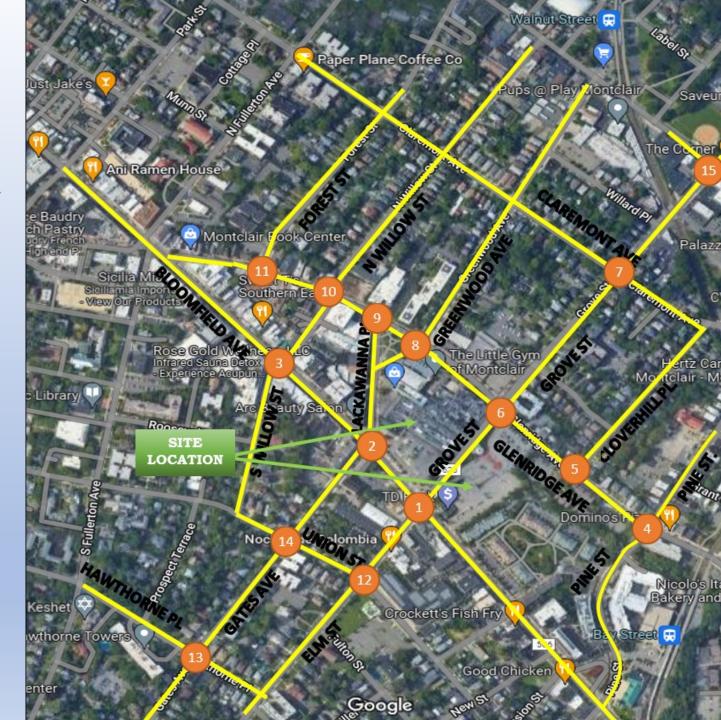
- Study Area
- Existing Conditions
  - Volumes
  - Levels of Service
- No Build Conditions
  - Background Growth Rate & Committed Developments
  - Levels of Service
- Development Plan
  - Trip Generation
- Full Build Conditions
  - Volumes
  - Levels of Service
- Mitigation
  - Recommended Improvements
  - Levels of Service
  - Concept Plans



### Study Area

- Bloomfield Ave (CR 506)
   & Grove St (CR 623)/ Elm St (CR 668)
- 2. Bloomfield Ave (CR 506) & Lackawanna Pl/Gates Ave
- 3. Bloomfield Ave (CR 506) & Willow St
- 4. Glenridge Ave & Pine St
- 5. Glenridge Ave & Cloverhill Pl
- 6. Grove St (CR 623) & Glenridge Ave
- 7. Grove St (CR 623) & Claremont Ave
- 8. Glenridge Ave & Greenwood Ave
- 9. Glenridge Ave & Lackawanna Pl
- 10. Glenridge Ave & Willow St
- 11. Glenridge Ave & Forest St
- 12. Union Ave/Washington St & Elm St
- 13. Gates Ave & Hawthorne Pl
- 14. Gates Ave & Union St
- 15. Grove St & Walnut St





### **Existing Volumes**

#### **Traffic Counts Conducted**

Thursday, January 5<sup>th</sup>, 2023 from 7:00 AM to 9:00 AM Thursday, January 5<sup>th</sup>, 2023 from 2:00 PM to 6:00 PM Saturday, January 7<sup>th</sup>, 2023 from 10:00 AM to 2:00 PM

#### Resulting System Wide Peak Hours

Weekday Morning Peak Hour: 7:45 AM-8:45 AM

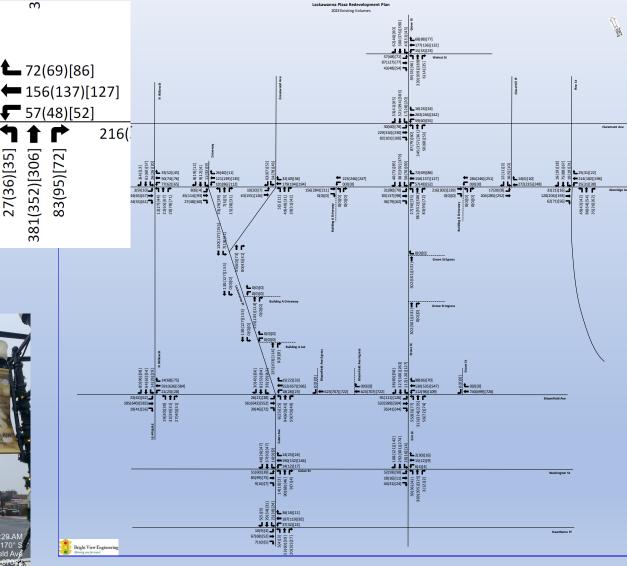
Weekday Evening Peak Hour: 5:00 PM-6:00 PM

Saturday Mid-day Peak Hour: 1:00 PM-2:00 PM





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### Capacity Analysis / Levels of Service

Highway Capacity Manual, 6<sup>th</sup> Ed. Signalized / Unsignalized LOS/Delay Criteria

Level of Service	Average Control Delay (sec/veh)					
Level of Service	Signalized Intersection	Unsignalized Intersection				
А	< 10	< 10				
В	> 10 - 20	> 10 - 15				
С	> 20 - 35	> 15 – 25				
D	> 35 – 55	> 25 – 35				
E	> 55 – 80	> 35 – 50				
F	> 80	> 50				



Lutavaaatiava			Weekday Evening Peak	
Intersection	Movement	Peak Hour	Hour	Peak Hour
	EBL	C/24.3	B/16.2	B/15.6
	EBTR	D/44.0	C/25.5	C/22.6
	WBL	C/20.2	C/22.3	B/18.9
	WBTR	C/34.4	D/38.9	C/33.3
Bloomfield Ave & Grove St/Elm St	NBL	C/23.2	C/21.6	C/25.2
	NBTR	D/48.5	D/44.0	D/48.0
	SBL	C/31.5	C/24.6	C/27.7
	SBTR	D/46.1	D/41.1	E/56.8
	Overall	D/39.4	C/33.6	C/34.2
	EBTR	A/9.7	B/12.4	A/6.9
	WBL	A/3.4	A/3.4	A/3.6
	WBTR	A/9.7	A/5.1	A/5.0
Bloomfield Ave & Lackawanna Pl/ Gates Ave	NBLTR	D/36.9	C/34.7	C/29.9
	SBL	D/39.1	D/38.1	D/36.8
	SBTR	C/34.9	C/26.8	C/31.9
	Overall	B/15.1	B/12.7	B/10.9



		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBL	B/15.1	A/7.9	B/17.2
	EBTR	B/16.7	A/9.7	C/20.6
	WBLT	C/27.4	A/0.9	A/7.2
Bloomfield Ave & Willow St	WBTR	C/27.9	A/1.1	A/7.8
biodifficia Ave & Willow St	NBL	C/32.5	D/45.3	C/28.6
	NBTR	C/26.7	D/37.2	C/23.2
	SBLTR	D/39.9	D/53.4	D/35.2
	Overall	C/24.3	B/12.5	B/17
	EBLTR	A/0.5	A/0.6	A/0.5
	WBLTR	A/8.6	A/8.4	A/8.5
Glanridge Ave & Dine St	NBL	C/24.8	C/24.7	C/24.6
Glenridge Ave & Pine St	NBTR	C/26.9	C/25.7	C/26.7
	SBLTR	C/25.9	C/26.5	C/26.2
	Overall	B/12.6	B/11.2	B/11.9
	EB	A/0.6	A/0.5	A/0.2
Glenridge Ave & Cloverhill Pl	WB	A/0.0	A/0.0	A/0.0
	SB	B/13.0	B/10.7	B/12.0
	EBL	C/22.3	C/24.6	C/24.0
	EBTR	C/23.6	C/26.5	C/24.7
Grove St & Glenridge Ave	WBLTR	B/16.4	B/15.8	B/19.8
Grove St & Glerifluge Ave	NBLTR	B/15.7	B/15.4	B/14.1
	SBLTR	A/2.2	A/2.7	A/2.7
	Overall	B/12.1	B/13.1	B/12.6



		Weekday Morning	Weekday Evening	Saturday Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBL	C/32.0	C/32.3	C/33.1
	EBTR	C/30.6	D/36.0	C/30.4
	WBL	D/37.2	D/43.7	D/36.0
Grove St & Claremont Ave	WBTR	C/28.3	C/27.2	C/27.0
	NBLTR	A/2.7	A/2.4	A/1.9
	SBLTR	B/13.6	B/14.3	B/14.6
	Overall	B/17.6	B/19.5	B/17.7
	EB	A/1.1	A/0.9	A/0.4
Glenridge Ave & Greenwood Ave	WB	A/0.0	A/0.0	A/0.0
Gleffflage Ave & Greeffwood Ave	NB	B/11.3	B/12.1	B/11.3
	SB	B/12.7	C/15.4	B/12.3
	EB	A/0.8	A/0.3	A/0.2
Glenridge Ave & Lackawanna Pl/Driveway	WB	A/3.1	A/2.5	A/3.4
Glefffluge Ave & Lackawaffla Fij Diffeway	NB	B/13.8	B/12.7	B/13.5
	SB	B/13.3	B/14.1	B/12.6
	EB	A/7.6	A/8.6	A/8.9
Glenridge Ave & Willow St	WB	A/8.5	A/9.3	A/9.6
diefffluge Ave & willow 5t	NB	A/7.8	A/9.0	A/9.5
	SB	A/8.2	A/8.8	A/8.9
Glenridge Ave & Forest St	EB	A/1.7	A/1.6	A/1.4
Glefffluge Ave & Folest St	SB	A/9.2	A/9.8	B/10.4



		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBLTR	C/25.7	C/25.4	C/25.1
	WBLTR	C/23.2	C/23.8	C/23.4
Elm St & Union St/Washington St	NBLTR	B/10.4	B/10.7	B/10.2
	SBLTR	B/11.8	B/10.9	B/11.2
	Overall	B/13	B/12.9	B/12.5
	EB	B/11.7	B/11.5	B/10.6
Gates Ave & Hawthorne Pl	WB	B/14.8	B/12.7	B/11.1
Gales Ave & nawlhome Pi	NB	A/0.5	A/0.3	A/0.3
	SB	A/3.0	A/3.3	A/2.8
	EB	A/9.4	A/9.3	A/8.7
Gates Ave & Union St	WB	B/10.3	A/9.1	A/9.1
Gales Ave & Union St	NB	A/9.3	A/8.7	A/8.3
	SB	A/8.8	A/9.0	A/8.4
	EBLTR	B/16.3	B/17.2	B/16.5
	WBLTR	B/17.9	B/17.6	B/17.0
Grove St & Walnut St	NBLTR	B/11.9	B/12.5	B/13.0
	SBLTR	B/12.7	B/12.7	B/13.5
	Overall	B/14.1	B/14.3	B/14.4



### 2026 No Build Conditions

- 2.00% background growth rate (per current NJDOT annual background growth rates for Urban Minor Arterial in Essex County) over <u>3 years</u> yields the base "No Build" volumes
- Additional traffic from the following known developments were then added to obtain the 2026 No Build traffic volumes ->

- <u>10 Elm Street Mixed-Use Development (Montclair)</u> 20 dwelling units and 1,100-sf of office space.
- <u>161 167 Glenridge Avenue Mixed-Use Development (Montclair)</u> 17 dwelling units and 1,200-sf of retail space.
- <u>172 Glenridge Avenue Mixed-Use Development (Montclair)</u> 17 dwelling units and 1,885-sf of retail space.
- 369-371 Bloomfield Avenue Residential Development (Montclair) –
   11 dwelling units.
- <u>103 Grove Street Self-Storage Facility (Montclair)</u> 73,640-sf self-storage space with 665 storage units.
- <u>37 Orange Road Mixed-Use Development (Montclair)</u> 40 dwelling units and 2,235-sf retail space.
- 59 Church Street Mixed-Use Development (Montclair) 74 dwelling units and 3,936-sf retail space.
- <u>6 Gates Avenue Mixed-Use Development (Montclair)</u> 13,769-sf of office space and 4,854-sf of retail space.
- 610-612, 616 & 622 Bloomfield Avenue, 18 Ward Street, & 7 Farrand Street Mixed-Use Development (Bloomfield) –

  15 single-family townhouses and a 6-8 story building with 210
  - 15 single-family townhouses and a 6-8 story building with 210 apartment units and 7,283-sf of retail space.
- <u>656-662 Bloomfield Avenue Mixed-Use Development (Bloomfield)</u> 21 dwelling units and 1,423-sf of commercial space.



		Weekday Morning	Weekday Evening	Saturday Mid-Day
Intersection	Movement	Peak Hour		
	EBL	C/28.0	C/20.8	C/21.6
	EBTR	D/54.3	C/28.2	C/26.1
	WBL	C/21.6	C/24.2	C/21.1
	WBTR	D/36.4	D/41.8	D/37.2
Bloomfield Ave & Grove St/Elm St	NBL	C/25.4	C/23.6	C/24.9
	NBTR	E/56.7	D/52.9	D/48.6
	SBL	D/41.0	C/30.2	C/28.3
	SBTR	D/53.7	D/45.8	E/58.2
	Overall	D/45.8	D/37.9	D/36.9
	EBTR	B/11	B/12.1	A/7.2
	WBL	A/3.6	A/3.3	A/3.6
	WBTR	A/9.8	A/5.1	A/4.9
Bloomfield Ave & Lackawanna Pl/Gates Ave	NBLTR	D/39.1	D/36.3	C/30.3
	SBL	D/40.2	D/38.7	D/37.2
	SBTR	D/36	C/28	C/32.8
	Overall	B/15.8	B/12.9	B/11.0



		Weekday Morning	Weekday Evening	Saturday Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBL	B/15.5	A/8.8	B/17.4
	EBTR	B/17.2	B/11.1	C/21.4
	WBLT	C/28.2	A/1.2	A/7.8
Bloomfield Ave & Willow St	WBTR	C/28.8	A/1.4	A/8.5
Biodiffield Ave & Willow St	NBL	C/32.8	D/43.9	C/28.9
	NBTR	C/26.9	D/35.7	C/23.4
	SBLTR	D/41.0	D/52.5	D/36.1
	Overall	C/25.1	B/13.2	B/17.7
	EBLTR	A/0.5	A/0.7	A/0.6
	WBLTR	A/8.8	A/8.6	A/8.7
Glenridge Ave & Pine St	NBL	C/25.0	C/24.9	C/24.8
Giermage / We & rine st	NBTR	C/27.2	C/25.9	C/26.9
	SBLTR	C/26.0	C/26.7	C/26.5
	Overall	B/12.7	B/11.2	B/12
	EB	A/0.7	A/0.5	A/0.3
Glenridge Ave & Cloverhill Pl	WB	A/0.0	A/0.0	A/0.0
	SB	B/13.6	B/11.1	B/12.4
	EBL	C/22.7	C/26.0	C/24.8
	EBTR	C/23.9	C/27.1	C/25.1
Grove St & Glenridge Ave	WBLTR	B/17.6	B/17.5	C/20.7
Grove St & dierinage Ave	NBLTR	B/16.8	B/16.9	B/15.0
	SBLTR	A/3.0	A/4.2	A/3.6
	Overall	B/12.9	B/14.4	B/13.4



		Weekday Morning	Weekday Evening	Saturday Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBL	C/33.5	C/34.2	D/35.1
	EBTR	C/32.3	D/40.5	C/32.2
	WBL	D/40.3	D/51.9	D/39.1
Grove St & Claremont Ave	WBTR	C/29.2	C/28.0	C/27.7
	NBLTR	A/3.8	A/3.5	A/2.5
	SBLTR	B/14.6	B/15.3	B/15.5
	Overall	B/18.7	C/21.5	B/18.7
	EB	A/1.1	A/0.9	A/0.4
Glenridge Ave & Greenwood Ave	WB	A/0.0	A/0.0	A/0.0
Gleffflage Ave & Greeffwood Ave	NB	B/11.7	B/12.7	B/11.7
	SB	B/13.5	C/17.3	B/12.9
	EB	A/0.8	A/0.3	A/0.2
Glenridge Ave & Lackawanna Pl/Driveway	WB	A/3.1	A/2.4	A/3.3
Glefffluge Ave & Lackawaffla Pi/Diffeway	NB	C/15.0	B/13.5	B/14.6
	SB	B/14.2	C/15.4	B/13.5
	EB	A/7.8	A/9.0	A/9.3
Glenridge Ave & Willow St	WB	A/8.7	A/9.9	B/10.2
diefffluge Ave & willow 5t	NB	A/7.9	A/9.5	B/10.1
	SB	A/8.4	A/9.1	A/9.2
Glenridge Ave & Forest St	EB	A/1.8	A/1.6	A/1.4
Glefffluge Ave & Forest St	SB	A/9.3	B/10.0	B/10.6



		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBLTR	C/26.6	C/26.6	C/25.7
	WBLTR	C/23.3	C/23.9	C/23.5
Elm St & Union St/Washington St	NBLTR	B/10.8	B/11.3	B/10.6
	SBLTR	B/12.7	B/11.6	B/11.8
	Overall	B/13.9	B/13.8	B/13.2
	EB	B/12.3	B/11.9	B/10.9
Gates Ave & Hawthorne Pl	WB	C/16.3	B/13.4	B/11.5
Gates Ave & nawthorne Fi	NB	A/0.5	A/0.4	A/0.4
	SB	A/3.0	A/3.1	A/2.8
	EB	A/10.0	A/10.0	A/9.0
Gates Ave & Union St	WB	B/11.2	A/9.8	A/9.6
Gates Ave & Union St	NB	A/9.8	A/9.1	A/8.6
	SB	A/9.4	A/9.6	A/8.8
	EBLTR	B/16.7	B/17.6	B/16.8
	WBLTR	B/18.3	B/18.0	B/17.4
Grove St & Walnut St	NBLTR	B/12.6	B/13.5	B/13.9
	SBLTR	B/13.9	B/13.7	B/14.6
	Overall	B/14.8	B/15	B/15.1



### Assumed Development

#### **West Site**

39,671 SF – Grocery Space (LUC 821)

35,440 SF – Retail Space (LUC 821)

98,427 SF - Office Space (LUC 710)

86 Dwelling Units – Multi-family Residential (LUC 220)

#### **East Site**

12,078 SF - Retail Space (LUC 822)

284 Dwelling Units – Multi-family Residential (LUC 220)





### Total Site Generated Trips

#### **Total Trips Generated**

a)	a)	LUC	T1:4	AM Peak Hour			PM Peak Hour			SA	Γ Peak F	Iour
it	LUC	Unit	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	<b>TOTAL</b>	
S	710	98,427 SF	145	20	165	28	136	164	28	24	52	
St	220	86 DU	9	24	33	31	21	52	18	17	35	
Ve	821	75.111 SF	164	101	265	334	361	695	355	341	696	
>		Total	318	145	463	393	518	911	401	382	783	

ite	LUC Unit		AN	I Peak H	our	PM	I Peak H	our	SA	Γ Peak H	our
Sit	LUC	Unit	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL
_ •	220	284 DU	31	77	108	104	69	173	58	58	116
ast	822	12,078 SF	20	13	33	45	44	99	40	39	79
Ĕ	1	Total	51	90	141	149	113	272	98	97	195

Source: ITE Trip Generation Manual, 11th Edition



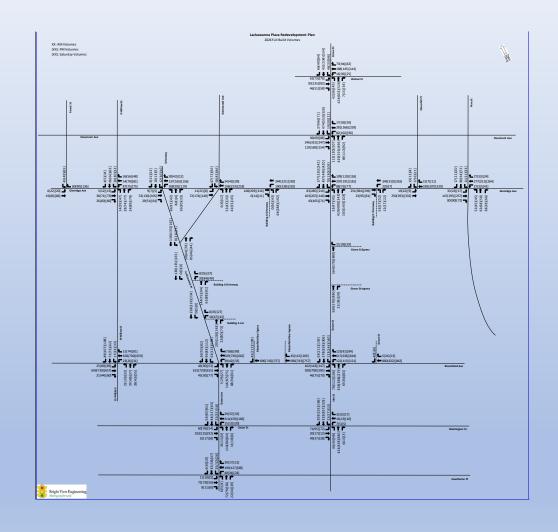
### Full Build Volumes

Full Build Volumes =

No Build Volumes

+

**Proposed Site Generated Trips** 





		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	<b>Peak Hour</b>	<b>Peak Hour</b>	Peak Hour
	EBL	C/28.5	C/25.6	C/25.8
	EBTR	D/54.0	C/34.8	C/29.7
	WBL	C/22.0	C/26.0	C/22.5
	WBTR	D/38.2	D/44.3	D/39.7
Bloomfield Ave & Grove St/Elm St	NBL	C/30.7	C/29.2	C/28.2
	NBTR	E/61.1	E/58.8	D/48.6
	SBL	D/46.4	D/36.8	C/28.1
	SBTR	E/58.5	D/49.6	E/59.1
	Overall	D/48.1	D/42.4	D/38.9
	EBTR	B/11.2	B/12.8	A/7.4
	WBL	A/3.7	A/4	A/4.1
	WBTR	A/9.8	A/6.4	A/6.2
Bloomfield Ave & Lackawanna Pl/Gates Ave	NBLTR	D/41.4	D/40.7	D/35.1
	SBL	D/43.9	D/52.7	D/43.3
	SBTR	D/36.5	C/33.7	D/35.7
	Overall	B/16.7	B/16.5	B/13.7



		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBL	B/15.6	A/8.8	B/17.4
	EBTR	B/17.4	B/11.2	C/21.6
	WBLT	C/28.4	A/1.2	A/7.9
Bloomfield Ave & Willow St	WBTR	C/29.1	A/1.5	A/8.6
biodiffield Ave & Willow St	NBL	C/32.8	D/43.9	C/28.9
	NBTR	C/26.9	D/35.7	C/23.4
	SBLTR	D/41.0	D/52.5	D/36.1
	Overall	C/25.2	B/13.1	B/17.7
	EBLTR	A/0.6	A/1.0	A/0.7
	WBLTR	A/9.2	A/9.0	A/9.1
Clansidae Ave & Dine Ct	NBL	C/25.0	C/24.9	C/24.8
Glenridge Ave & Pine St	NBTR	C/27.2	C/25.9	C/26.9
	SBLTR	C/26.0	C/26.7	C/26.5
	Overall	B/12.3	B/10.5	B/11.4
	EB	A/0.6	A/0.4	A/0.2
Glenridge Ave & Cloverhill Pl	WB	A/0.0	A/0.0	A/0.0
	SB	B/14.6	B/11.9	B/13.5
	EBL	C/28.6	F/218.9	E/69.1
	EBTR	C/24.3	C/30.6	C/26.5
Grave St & Glanridge Ave	WBLTR	C/28.5	E/62.0	D/36.0
Grove St & Glenridge Ave	NBLTR	B/18.5	B/19.6	B/15.7
	SBLTR	A/8.1	D/47.2	B/14.3
	Overall	B/17.7	E/61.2	C/25.6



		Weekday Morning	Weekday Evening	Saturday Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBL	C/33.5	C/34.2	D/35.1
	EBTR	C/34.1	D/50.3	D/35.9
	WBL	D/46.1	F/108.0	D/50.8
Grove St & Claremont Ave	WBTR	C/29.2	C/28.0	C/27.7
	NBLTR	A/10.0	D/40.7	B/10.1
	SBLTR	B/16.9	B/18.5	B/17.8
	Overall	C/21.4	D/37.9	C/22.1
	EB	A/1.1	A/0.9	A/0.4
Glenridge Ave & Greenwood Ave	WB	A/0.0	A/0.0	A/0.0
diefiliage Ave & dieefiwood Ave	NB	B/11.7	B/12.7	B/11.7
	SB	B/13.5	C/17.3	B/12.9
Clansidge Ave & Leekeyyenne DI/Driveyyey	EB	A/0.8	A/0.3	A/0.2
	WB	A/3.1	A/2.4	A/3.3
Glenridge Ave & Lackawanna Pl/Driveway	NB	C/15.0	B/13.5	B/14.6
	SB	B/14.2	C/15.4	B/13.5
	EB	A/7.8	A/9.0	A/9.3
Glenridge Ave & Willow St	WB	A/8.7	A/9.9	B/10.2
	NB	A/7.9	A/9.5	B/10.1
	SB	A/8.4	A/9.1	A/9.2
Glenridge Ave & Forest St	EB	A/1.8	A/1.6	A/1.4
Glefffage Ave & Forest St	SB	A/9.3	B/10.0	B/10.6



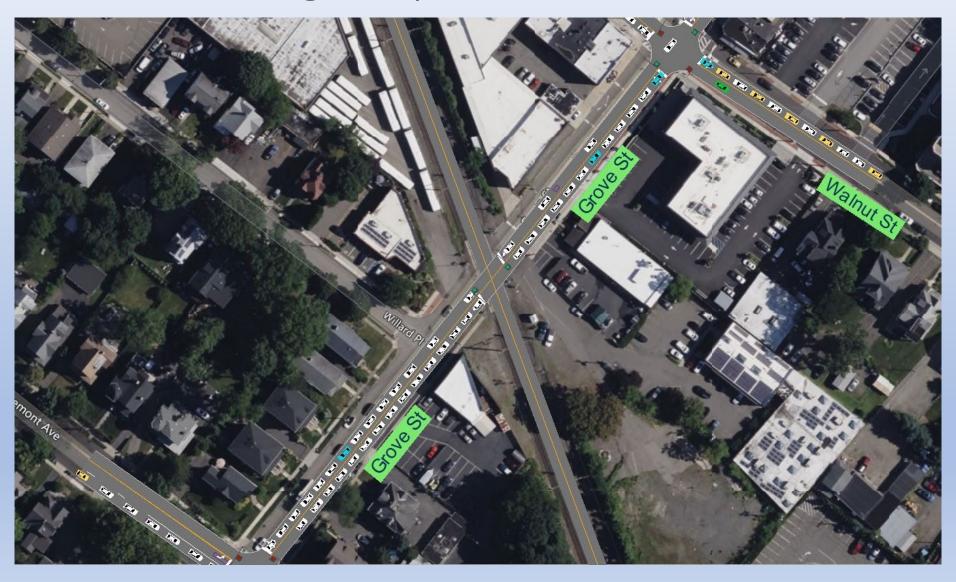
		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBLTR	C/26.7	C/26.9	C/26.0
	WBLTR	C/23.3	C/23.9	C/23.5
Elm St & Union St/Washington St	NBLTR	B/11.1	B/11.7	B/11.0
	SBLTR	B/13.1	B/12.4	B/12.4
	Overall	B/14.1	B/14.3	B/13.6
	EB	B/12.5	B/12.4	B/11.2
Gates Ave & Hawthorne Pl	WB	C/16.8	B/14.0	B/11.8
Gates Ave & nawthorne Pi	NB	A/0.4	A/0.3	A/0.3
	SB	A/2.9	A/2.5	A/2.3
Gates Ave & Union St	EB	B/10.3	B/10.8	A/9.5
	WB	B/11.7	B/10.4	B/10.1
Gales Ave & Official St	NB	B/10.1	A/9.6	A/8.9
	SB	A/9.6	B/10.3	A/9.3
	EBLTR	B/16.7	B/17.6	B/16.8
Grove St & Walnut St	WBLTR	B/18.3	B/18.0	B/17.3
	NBLTR	B/13.6	B/17.5	B/17.2
	SBLTR	B/17.0	B/16.4	B/18.4
	Overall	B/16.1	B/17.2	B/17.6



		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EB	A/0.0	A/0.0	A/0.0
Bloomfield Ave & Bloomfield Ave Site Egress Driveway	WB	A/0.0	A/0.0	A/0.0
	SB	B/11.3	B/12.6	B/12.6
	EB	A/0.0	A/0.0	A/0.0
Bloomfield Ave & Building E Driveway	WB	A/0.0	A/0.0	A/0.0
	SB	B/11.7	B/11.7	B/11.7
	WB	B/12.7	B/13.1	B/11.9
Grove St & Grove St Site Egress Driveway	NB	A/0.0	A/0.0	A/0.0
	SB	A/0.0	A/0.0	A/0.0
	EB	A/0.0	A/0.0	A/0.0
Glenridge Ave & Building D Driveway	WB	A/0.0	A/0.2	A/0.2
	NB	B/14.3	C/17.0	B/14.7
	EB	A/0.0	A/0.0	A/0.0
Glenridge Ave & Building B Driveway	WB	A/3.5	A/4.5	A/4.2
	NB	A/9.6	D/33.6	C/18.2
	WB	B/10.7	B/10.7	B/10.5
Lackawanna Pl & Building A Driveway	NB	A/0.0	A/0.0	A/0.0
	SB	A/0.0	A/0.0	A/0.0
	WB	B/11.2	B/11.1	B/11.2
Lackawanna Pl & Building A Parking Lot	NB	A/0.0	A/0.0	A/0.0
	SB	A/0.0	A/0.0	A/0.0



### Queuing / Operational Review



### Recommended Improvements

#### Bloomfield Ave & Grove St/Elm St

- Eliminate 2 parking spaces and restripe
   Elm Street Approach
- Timing Modifications

#### **Grove St & Glenridge Ave**

- Replace Traffic Signal and add lead leftturn phase for Glenridge Ave
- Add dedicated left-turn lanes to SB, WB,
   & NB approaches

#### Bloomfield Ave & Willow St

Timing Modifications (Modify Offset)

#### **Grove St & Claremont Ave**

- Replace Traffic Signal
- Remove parking on Grove Street and replace with dedicated left-turn lanes on SB & NB approaches

#### Grove St & Walnut St

- Replace Traffic Signal
- Add dedicated left-turn lanes to SB & NB approaches



## Capacity Analysis / Levels of Service 2026 Full Build Conditions with Mitigation

		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	<b>Peak Hour</b>	<b>Peak Hour</b>	<b>Peak Hour</b>
	EBL	B/19.2	C/29.4	C/27.0
	EBTR	C/25.0	C/32.0	C/32.9
	WBL	C/25.1	C/32.0	C/22.7
	WBTR	D/41.7	D/41.1	D/38.2
Bloomfield Ave & Grove St/Elm St	NBL	C/25.4	C/29.5	C/32.3
	NBTR	D/52.7	D/46.5	D/44.4
	SBL	C/34.8	D/37.0	C/32.3
	SBTR	D/49.2	D/39.7	D/52.2
	Overall	D/38.3	D/37.8	D/38.1



# Capacity Analysis / Levels of Service 2026 Full Build Conditions with Mitigation

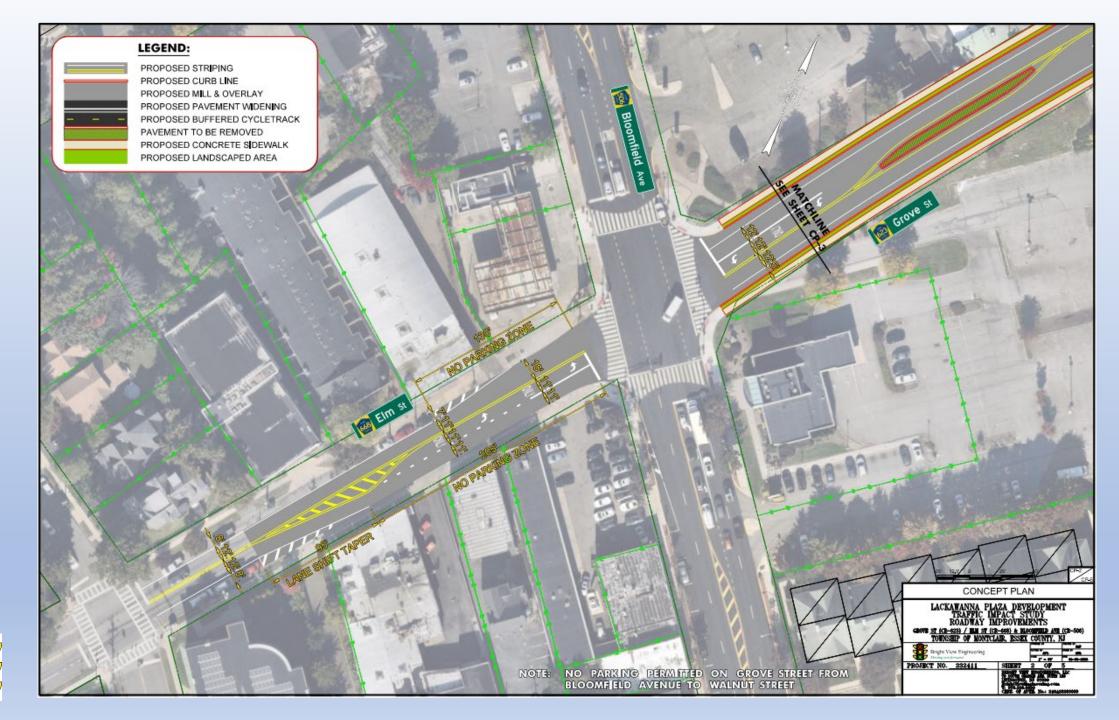
		Weekday	Weekday	Saturday
		Morning	Evening	Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	Peak Hour
	EBL	B/14.3	A/8.8	B/17.4
	EBTR	B/17.4	B/11.3	C/21.5
	WBLT	B/14.1	A/1.2	A/7.9
Bloomfield Ave & Willow St	WBTR	B/14.4	A/1.5	A/8.6
Biodifficial Ave & Willow 3t	NBL	C/32.8	D/43.9	C/28.9
	NBTR	C/26.9	D/35.7	C/23.4
	SBLTR	D/41.0	D/52.5	D/36.1
	Overall	B/19.1	B/13.1	B/17.7
	EBL	C/20.5	D/41.8	D/49.1
	EBTR	B/18.3	C/25.4	C/24.1
	WBL	B/18.3	C/25.4	C/24.1
	WBTR	B/18.3	D/49.0	D/46.6
Grove St & Glenridge Ave	NBL	C/34.4	C/28.6	B/12.2
	NBTR	C/27.8	C/25.5	B/17.0
	SBL	B/19.9	C/24.9	A/5.6
	SBTR	C/20.8	B/17.6	A/7.2
	Overall	C/22.8	C/29.6	C/23



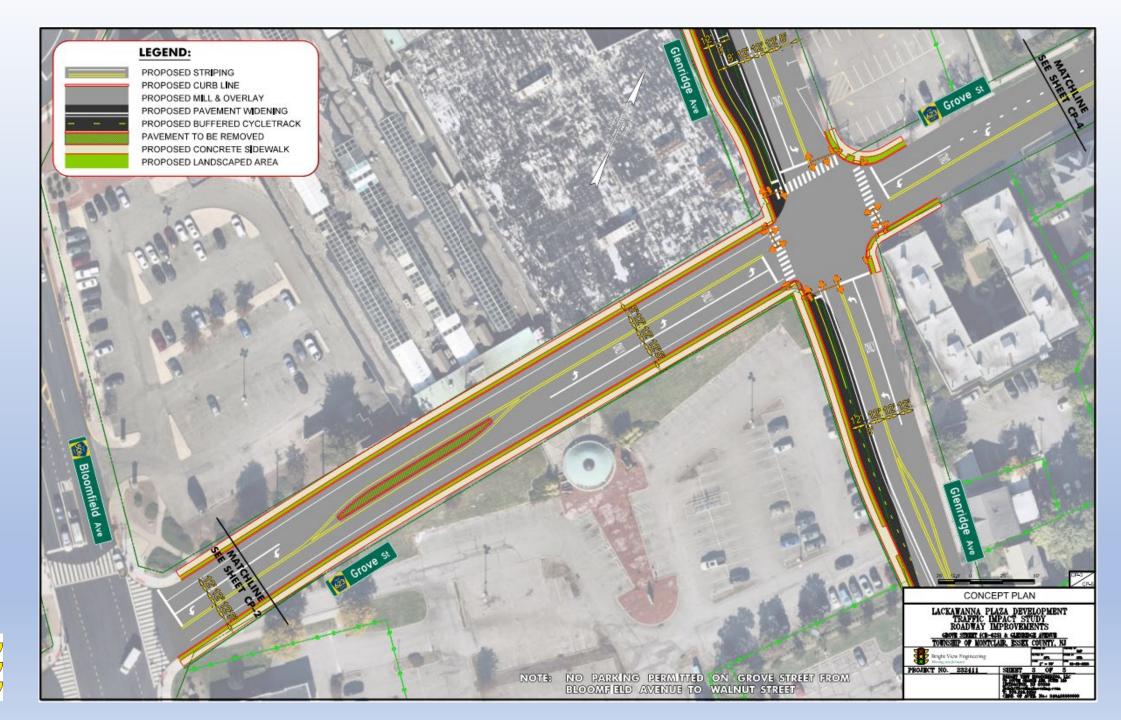
## Capacity Analysis / Levels of Service 2026 Full Build Conditions with Mitigation

		Weekday Morning	Weekday Evening	Saturday Mid-Day
Intersection	Movement	Peak Hour	Peak Hour	
	EBL	C/33.5	C/28.8	D/35.1
	EBTR	C/34.1	C/34.3	D/35.9
	WBL	D/46.1	D/54.1	D/50.8
	WBTR	C/29.2	C/23.4	C/27.7
Grove St & Claremont Ave	NBL	A/8.6	B/17.2	A/9.4
	NBTR	A/2.5	A/7.1	A/2.9
	SBL	A/9.7	B/13.3	A/9.8
	SBTR	B/16.7	C/21.8	B/17.5
	Overall	B/19.2	C/21.7	B/20.0
	EBLTR	B/16.4	B/17.6	B/16.8
	WBLTR	B/17.9	B/18.0	B/17.4
Grove St & Walnut St	NBL	B/18.2	B/19.6	C/20.9
	NBTR	B/12.6	B/17.0	B/15.3
	SBL	B/15.5	C/20.6	B/19.2
	SBTR	B/14.6	B/16.1	B/16.5
	Overall	B/15.0	B/17.1	B/16.5

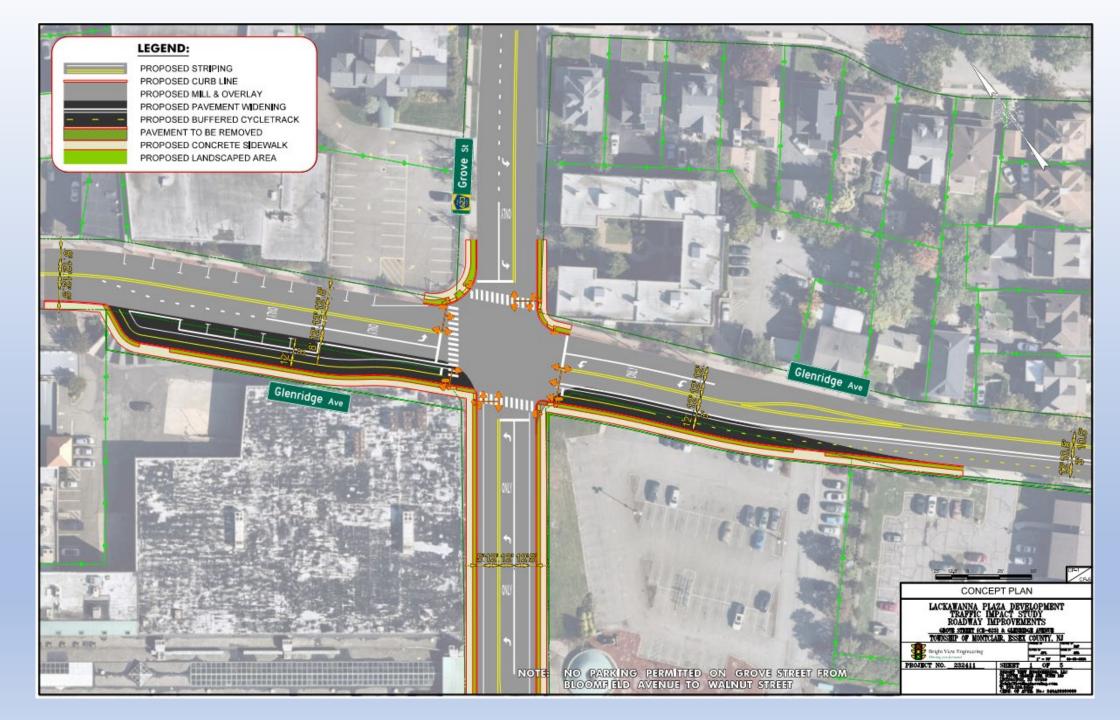








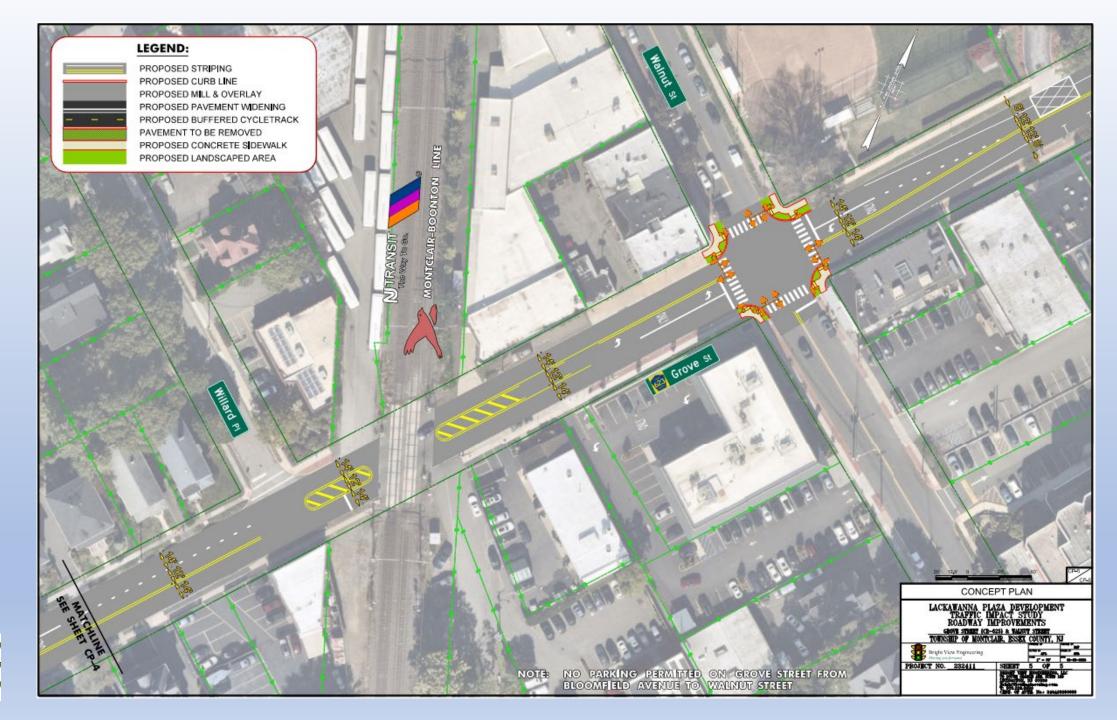














### Questions / Comments

#### Please direct written comments to:

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