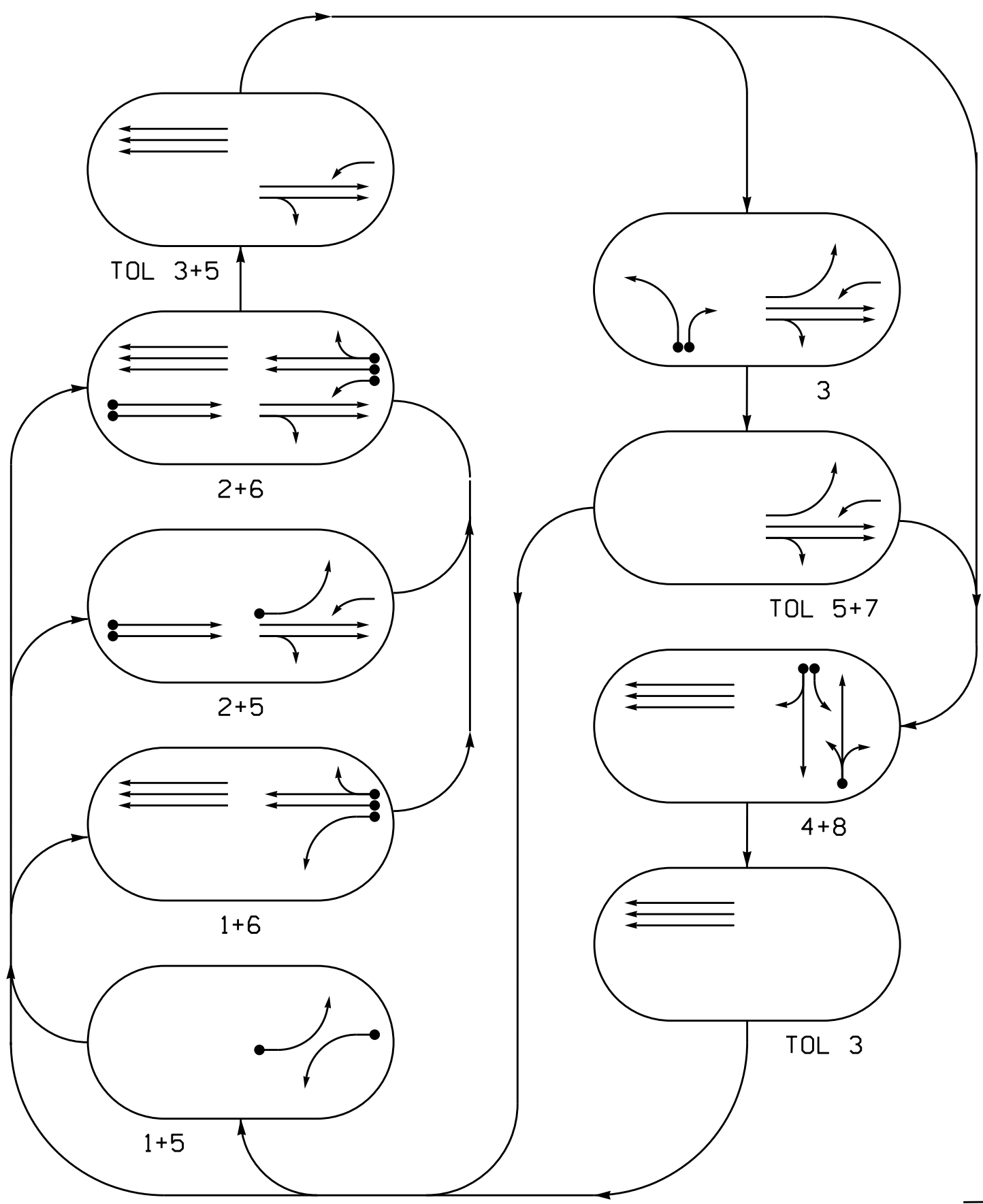


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Kalenick

PHASING DIAGRAM



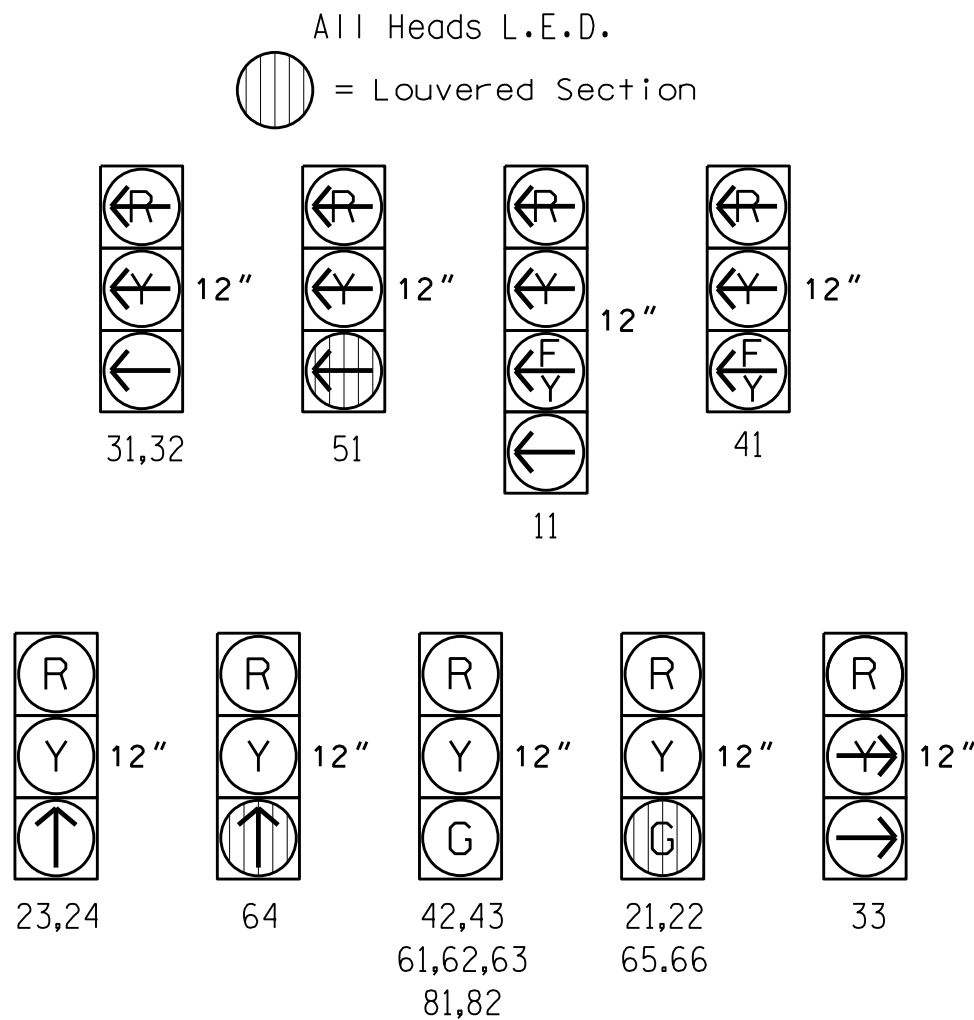
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE									
	1 + 5	1 + 6	2 + 5	2 + 6	3	4 + 8	TOL 3	TOL 5	TOL 7	FLASH
11	←	←	←	←	←	←	←	←	←	←
21,22	R	R	G	G	R	R	G	G	R	
23,24	R	R	↑	↑	R	R	R	R	R	
31,32	←	←	←	←	←	←	←	←	←	
33	R	R	R	R	→	R	R	R	R	
41	←	←	←	←	←	←	←	←	←	
42,43	R	R	R	R	G	R	R	R	R	
51	←	←	←	←	←	←	←	←	←	
61,62,63	R	G	R	G	R	R	R	R	R	
64	R	↑	R	↑	R	↑	R	↑	R	
65,66	R	G	R	G	R	G	R	G	R	
81,82	R	R	R	R	R	G	R	R	R	

SIGNAL FACE I.D.



MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	INITIAL	CALL	NEW CARD
1A	6X40	0	2-4-2	X	1	15.0	-	X	-	X	-
2A	6X6	70	*	*	2	-	-	X	-	X	-
2B	6X6	70	*	*	2	-	-	X	-	X	-
3A	6X40	0	*	*	3	-	-	X	-	X	-
3B	6X40	0	*	*	3	15.0	-	X	-	X	-
4A	6X40	0	2-4-2	X	4	3.0	-	X	-	X	-
4B	6X40	0	2-4-2	X	4	10.0	-	X	-	X	-
4C	6X15	0	2	X	4	15.0	-	X	-	X	-
5A	6X40	0	2-4-2	X	5	-	-	X	-	X	-
6A	6X6	70	3	X	6	-	-	X	-	X	-
6B	6X6	70	3	X	6	-	-	X	-	X	-
8A	6X40	0	2-4-2	X	8	10.0	-	X	-	X	-

* Video Detection Zone

6 Phase Fully Actuated D13-02 Asheville

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer. Reposition existing signal heads numbered 64 and 65 and Sign "B."
- Relocate Sign "A" to new span.
- Set all detector units to presence mode.
- Phase 3 and phase 8 shall not operate simultaneously.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- See Transportation Management Plans for stop bar locations.

LEGEND

PROPOSED	EXISTING
Traffic Signal Head	Modified Signal Head
Sign	Signal Pole with Guy
Pedestrian Signal Head	Signal Pole with Sidewalk Guy
Inductive Loop Detector	Controller & Cabinet
Junction Box	2-in Underground Conduit
Right of Way	Directional Arrow
Guardrail	Non-Intrusive Detection Zone
Construction Zone	Construction Zone Drums
No Right Turn Sign (R3-1)	No Left Turn Sign (R3-2)
"YIELD" Sign (R1-2)	

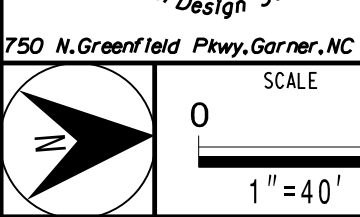
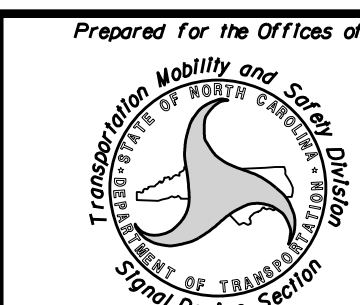
FEATURE	PHASE								TOL 3	TOL 5	TOL 7
	1	2	3	4	5	6	8				
Walk *	-	-	-	-	-	-	-				
Ped Clear *	-	-	-	-	-	-	-				
Min Green *	7	10	7	7	7	10	7	7	7	7	
Passage *	2.0	3.0	2.0	2.0	2.0	3.0	2.0				
Max 1 *	20	45	30	30	25	45	30				
Yellow Change	3.1	4.2	3.1	3.2	3.0	4.2	3.2	4.0	4.0	3.0	
Red Clear	2.3	1.7	2.8	3.3	3.3	1.7	3.3	1.7	1.7	3.2	
Added Initial *	-	-	-	-	-	-	-				
Maximum Initial *	-	-	-	-	-	-	-				
Time Before Reduction *	-	-	-	-	-	-	-				
Time To Reduce *	-	-	-	-	-	-	-				
Minimum Gap	-	-	-	-	-	-	-				
Advance Walk	-	-	-	-	-	-	-				
Non Lock Detector	X	-	X	X	X	-	X				
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL	-				
Dual Entry	-	-	-	X	-	-	X				

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

New Installation Temporary Design 2 (TMP Phase II Step 1)

AECOM

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Suite 200 Raleigh, NC 27607
Phone: 919-461-1100



NC 191 (Brevard Road)
at
I-26 EB / I-240 WB Ramps &
Fairfax Avenue / Shelburne Road
Division 13 Buncombe County Asheville

PLAN DATE: May 2026 REVIEWED BY: C. Kalencik
PREPARED BY: M. Tindal REVIEWED BY:
REVISIONS
INIT. DATE
SIGNATURE DATE
SIG. INVENTORY NO. 13-133772

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
SEAL 040715
ENGINEER
COURTNEY L. KALENICK
8/7/2026
SIGNATURE DATE
SIG. INVENTORY NO. 13-133772