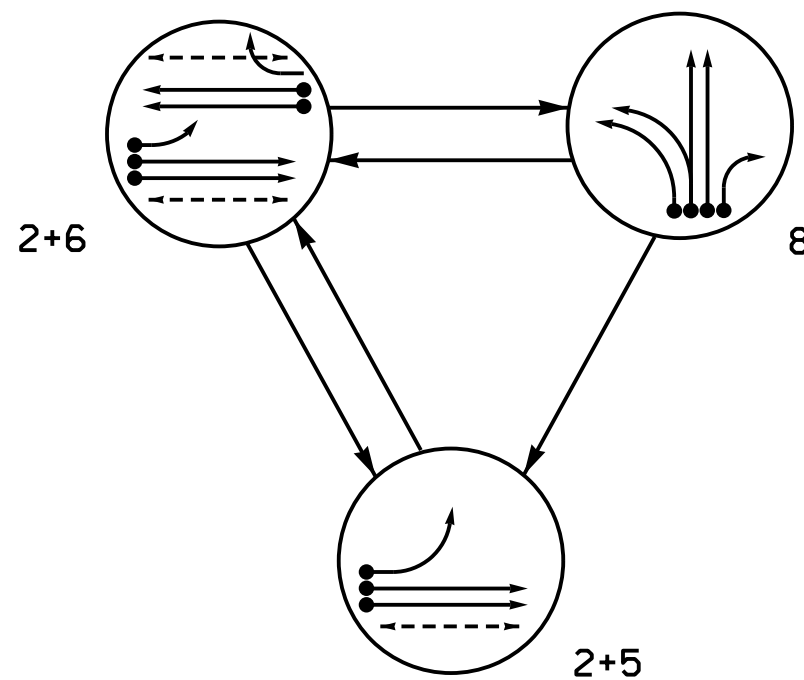


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

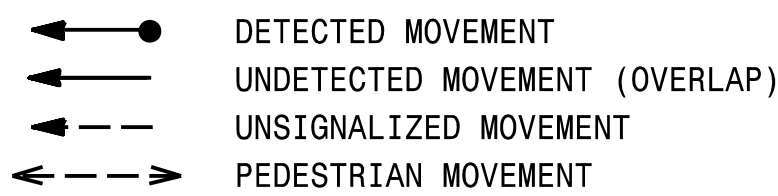
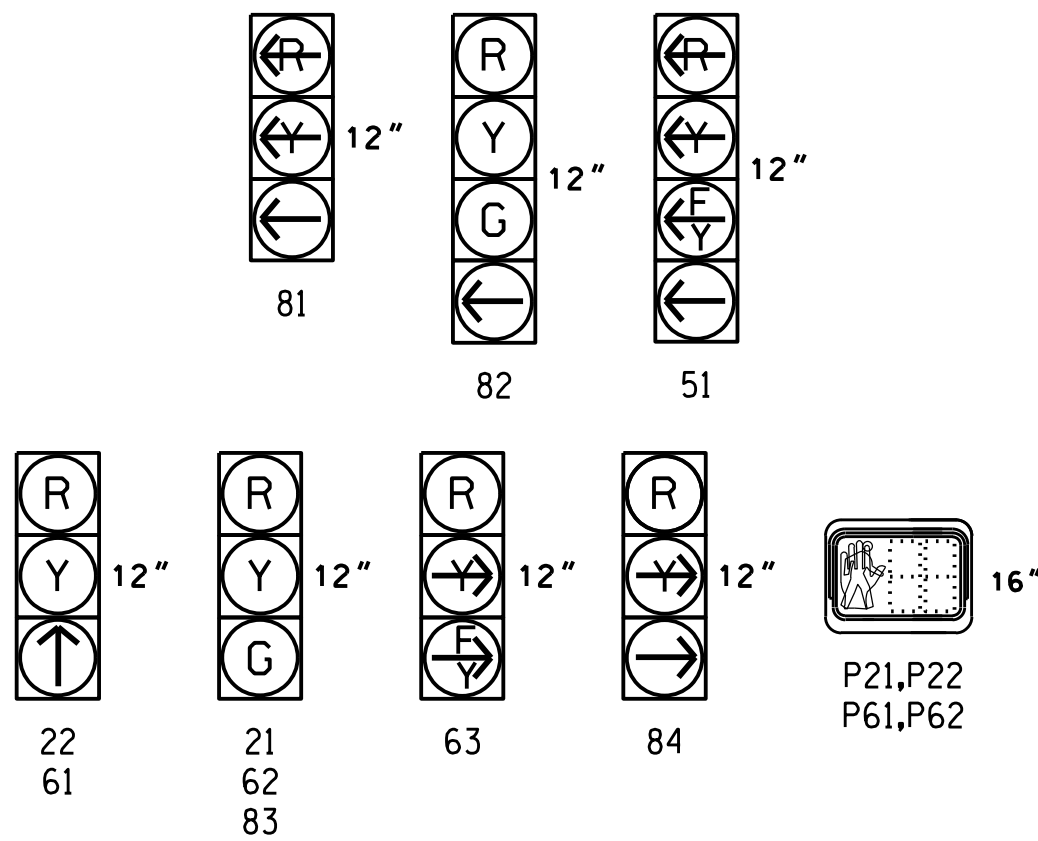


TABLE OF OPERATION	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

SIGNAL FACE	PHASE			
	2 + 6	2 + 5	8	F L A S H
21	G	G	R	R
22	↑	↑	R	R
51	F	↑	R	R
61	↑	R	R	R
62	G	R	R	R
63	F	R	R	R
81	R	R	↑	R
82	R	R	<u>C</u>	R
83	R	R	G	R
84	R	R	↑	R
P21,P22	W	W	DW	DRK
P61,P62	W	DW	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A ★	6X6	70	★	★	2	-	-	X	-	X	-	★
2B ★	6X6	70	★	★	2	-	-	X	-	X	-	★
5A ★	6X40	0	★	★	5	15.0	-	X	-	X	-	★
6A	6X6	70	3	X	2	-	-	X	-	X	-	X
6B	6X6	70	3	X	6	-	-	X	-	X	-	X
8A	6X40	0	2-4-2	X	8	-	-	X	-	X	-	X
8B	6X40	0	2-4-2	X	8	-	-	X	-	X	-	X
8C	6X40	0	2-4-2	X	8	-	-	X	-	X	-	X
8D	6X40	0	2-4-2	X	8	15.0	-	X	-	X	-	X

* Multi-Zone Microwave Detection

2 Phase
Fully Actuated
D13-02 Asheville

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. To provide a leading pedestrian interval on phase 6, program FYA heads numbered 51 and 63 to delay for 7 seconds after the start of the phase 6 walk interval. See Electrical Details for programming.
8. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. See Pavement Marking Plans for stop bar and crosswalk locations.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Metal Pole with Mastarm	
	Type II Signal Pedestal	
	Non-Intrusive Detection Zone	
N/A	Curb Ramp	

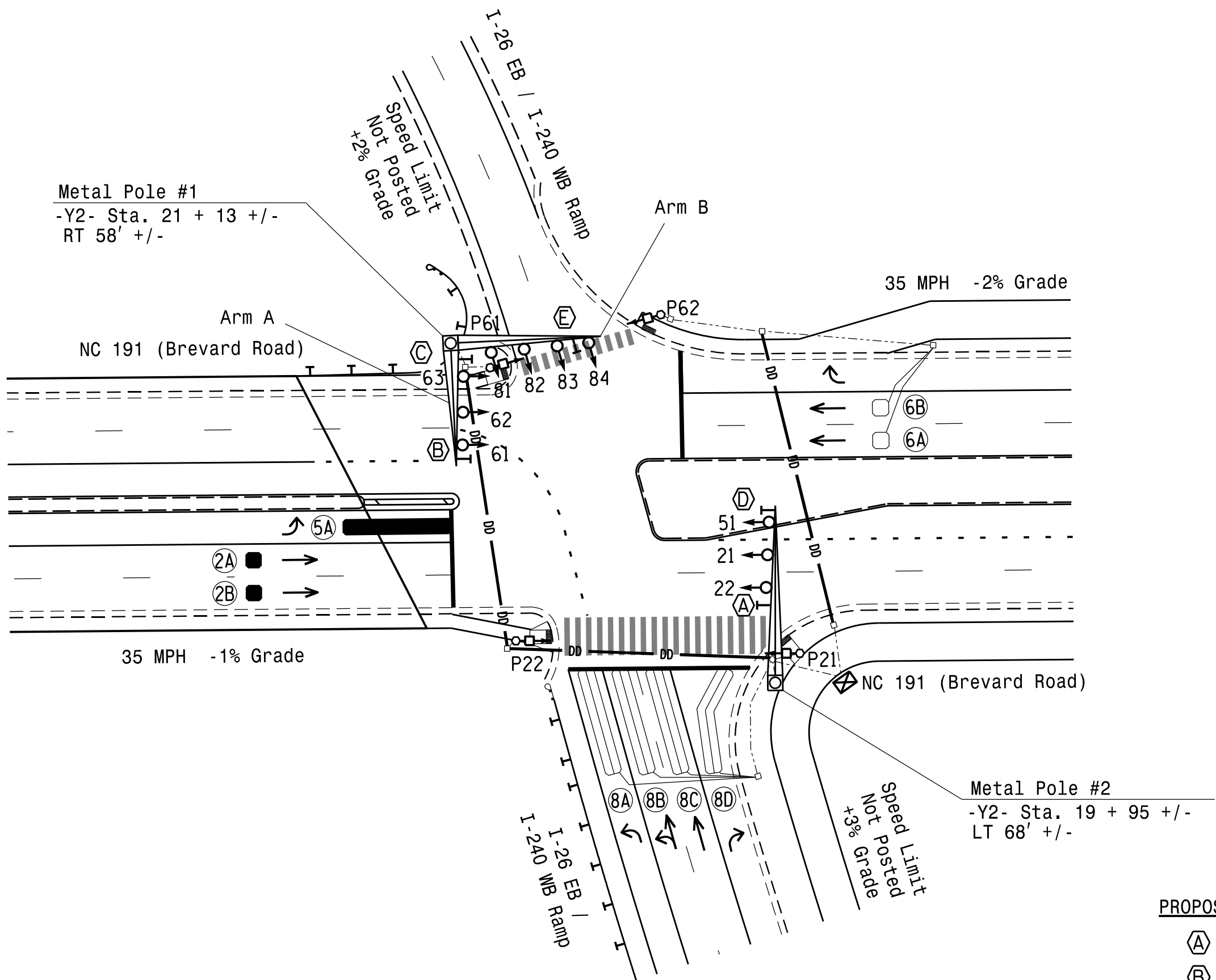
SIGNS

<u>PROPOSED</u>		<u>EXISTING</u>
(A)	No Right Turn Sign (R3-1)	(A)
(B)	No Left Turn Sign (R3-2)	(B)
(C)	Right "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15R)	(C)
(D)	Left "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15L)	(D)
(E)	Street Name Sign By Others (D3-1)	(E)

MAXTIME TIMING CHART				
FEATURE	PHASE			
	2	5	6	8
Walk *	7	—	14	—
Ped Clear	21	—	12	—
Min Green *	10	7	10	7
Passage *	3.0	2.0	3.0	2.0
Max l *	45	25	45	30
Yellow Change	4.0	3.0	4.0	3.0
Red Clear	1.7	2.6	1.7	3.5
Added Initial *	—	—	—	—
Maximum Initial *	—	—	—	—
Time Before Reduction *	—	—	—	—
Time To Reduce *	—	—	—	—
Minimum Gap	—	—	—	—
Advance Walk	—	—	**	—
Non Lock Detector	—	X	—	X
Vehicle Recall	MIN RECALL	—	MIN RECALL	—
Dual Entry	—	—	—	—

* 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.

* See Note 6.



Signal Upgrade
Final Design (Phase IV Step 5)

Prepared For the Offices of:

TRANSPORTATION MOBILITY AND SAFETY DIVISION

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

NC 191 (Brevard Road)

at

I-26 EB / I-240 WB Ramps

SEAL

NORTH CAROLINA

PROFESSIONAL

SEAL

040715

ENGINEER

COURTNEY L. KALENCIK

Division 13

Buncombe County

Asheville

PLAN DATE:

May 2026

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C. Kalencik

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REVISIONS

INIT.

DATE

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