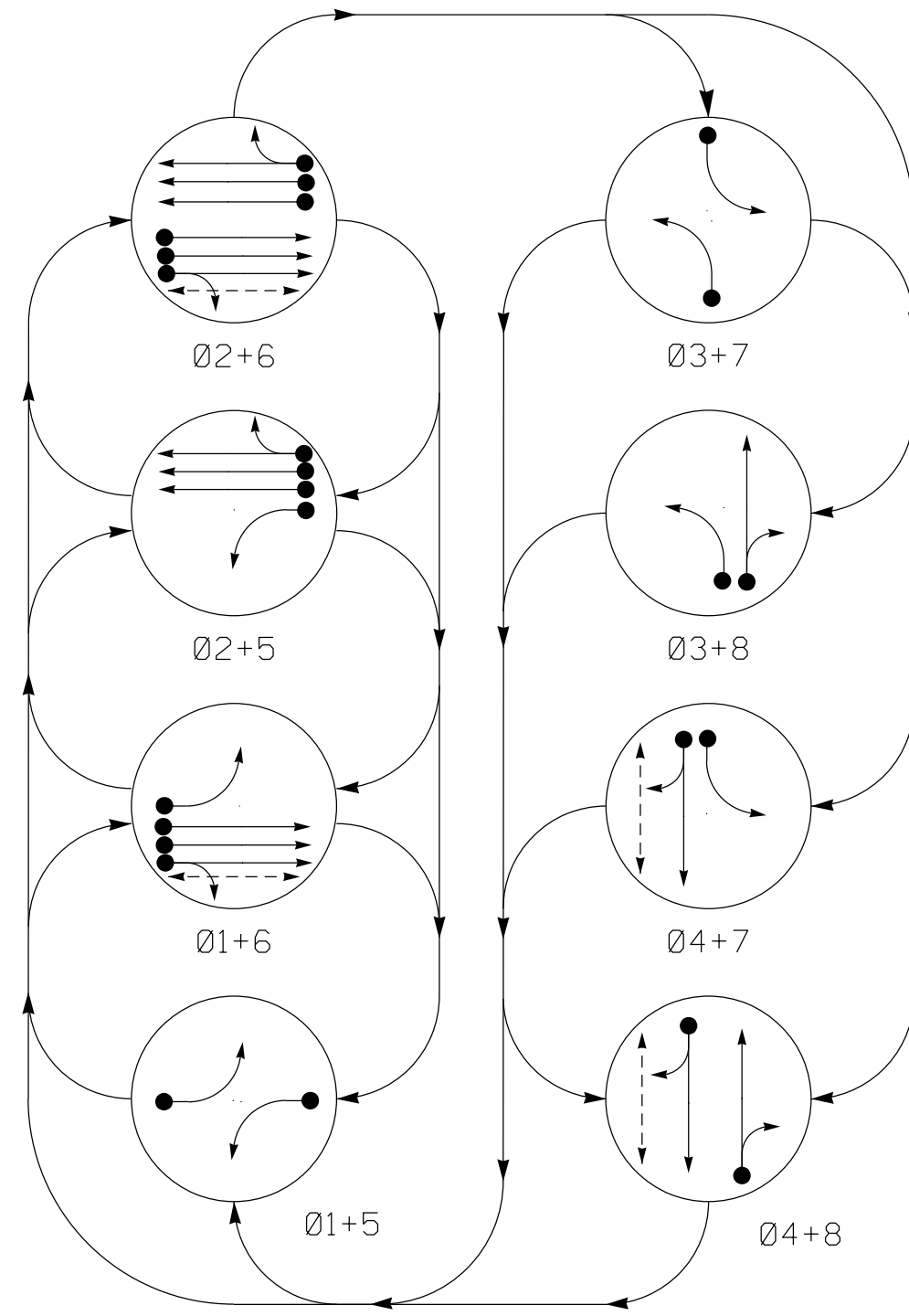


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3 + 7	Ø 3 + 8	Ø 4 + 7	Ø 4 + 8
11	←	←	←	←	←	←	←	←
21,22,23	R	R	G	G	R	R	R	Y
31	←	←	←	←	←	←	←	←
41,42	R	R	R	R	R	R	G	G
51	←	←	←	←	←	←	←	←
61,62,63	R	G	R	G	R	R	R	Y
71	←	←	←	←	←	←	←	←
81,82	R	R	R	R	R	G	R	G
P41,P42	DW	DW	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DW	DRK

ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING					
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE
1A	6X40	0	2-4-2	X	1	Yes	-	-	-	S
2A	6X6	300	4	X	2	Yes	-	-	X	N
2B	6X6	300	4	X	2	Yes	-	-	X	N
2C	6X6	300	4	X	2	Yes	-	-	X	N
3A	6X60	+2	EXIST	-	3	Yes	-	3	-	S
4A	6X40	+2	EXIST	-	4	Yes	-	10	-	S
5A	6X40	0	2-4-2	X	5	Yes	-	-	-	S
6A	6X6	300	EXIST	-	6	Yes	-	-	X	N
6B	6X6	300	EXIST	-	6	Yes	-	-	X	N
6C	6X6	300	EXIST	-	6	Yes	-	-	X	N
7A	6X60	+2	EXIST	-	7	Yes	-	3	-	S
8A	6X40	+2	EXIST	-	8	Yes	-	10	-	S

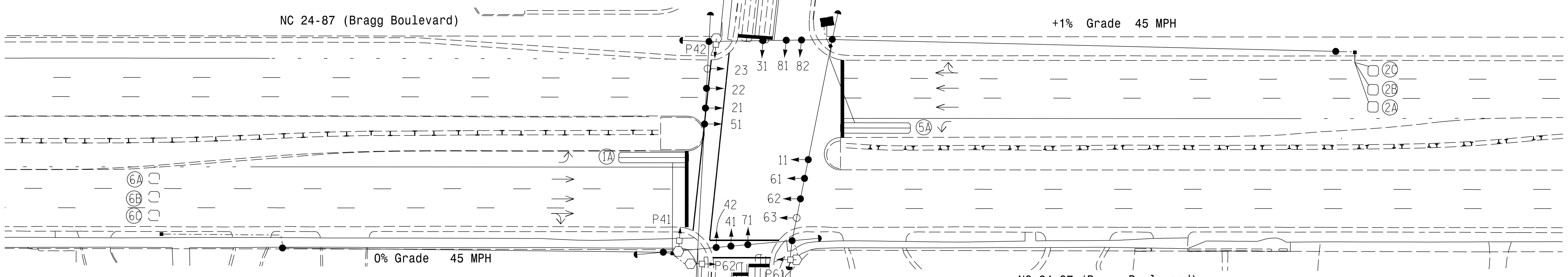
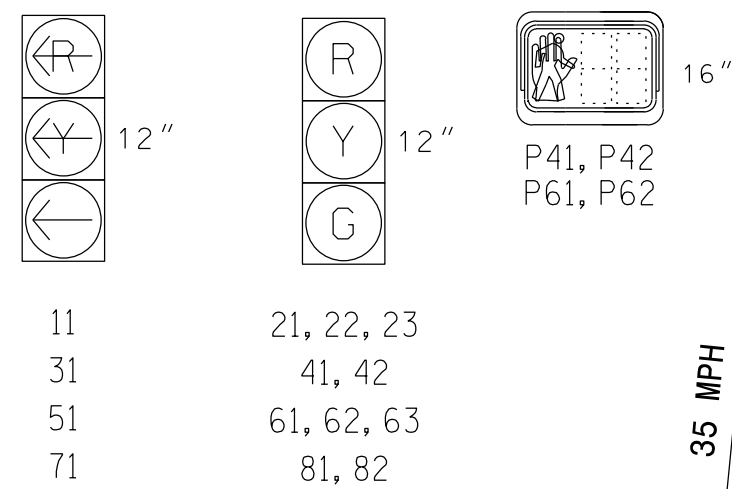
8 Phase Fully Actuated Fayetteville Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 or phase 5 may be lagged.
- Phase 3 or phase 7 may be lagged.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Reposition existing signal heads 21, 22, 61 and 62.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.

All Heads L.E.D.



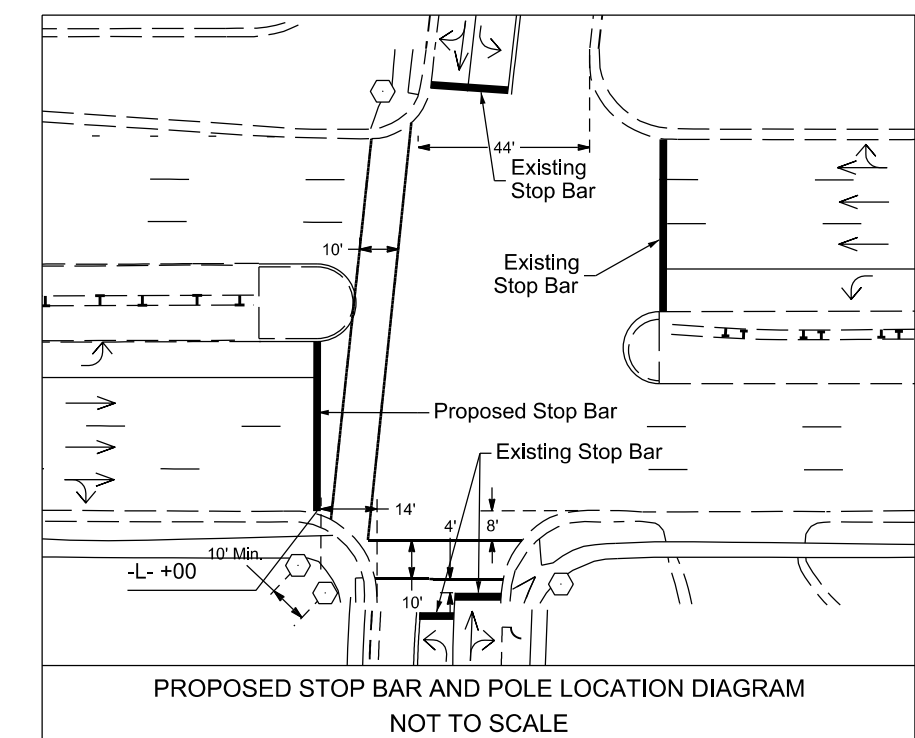
ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Walk *	0	0	0	7	0	7	0	0
Ped Clear	0	0	0	27	0	6	0	0
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max I *	20	90	20	20	20	90	20	20
Yellow	3.0	4.4	3.0	3.0	3.0	4.5	3.0	3.3
Red Clear	2.9	1.1	3.1	3.2	3.3	1.0	3.2	3.2
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	0	-	-	-	0	-	-
Seconds / Actuation *	-	1.5	-	-	-	1.5	-	-
Max Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X	X	X

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

LEGEND

- | PROPOSED | EXISTING |
|----------|--|
| | Traffic Signal Head |
| | Modified Signal Head |
| | Sign |
| | Pedestrian Signal Head With Push Button & Sign |
| | Signal Pole with Guy |
| | Signal Pole with Sidewalk Guy |
| | Inductive Loop Detector |
| | Controller & Cabinet |
| | Junction Box |
| | 2-in Underground Conduit |
| | Right of Way |
| | Directional Arrow |
| | Type II Signal Pedestal |



Signal Upgrade



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared For the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1" = 40'

NC 24-87 (Bragg Boulevard) at Stamper Road

Division 6 Cumberland County Fayetteville

PLAN DATE: December 2022 REVIEWED BY: J. Ma

PREPARED BY: J. Townsend REVIEWED BY: M.L. Stygles

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 033108

JANUARY 2023

1/6/2023

SIG. INVENTORY NO. 06-0033