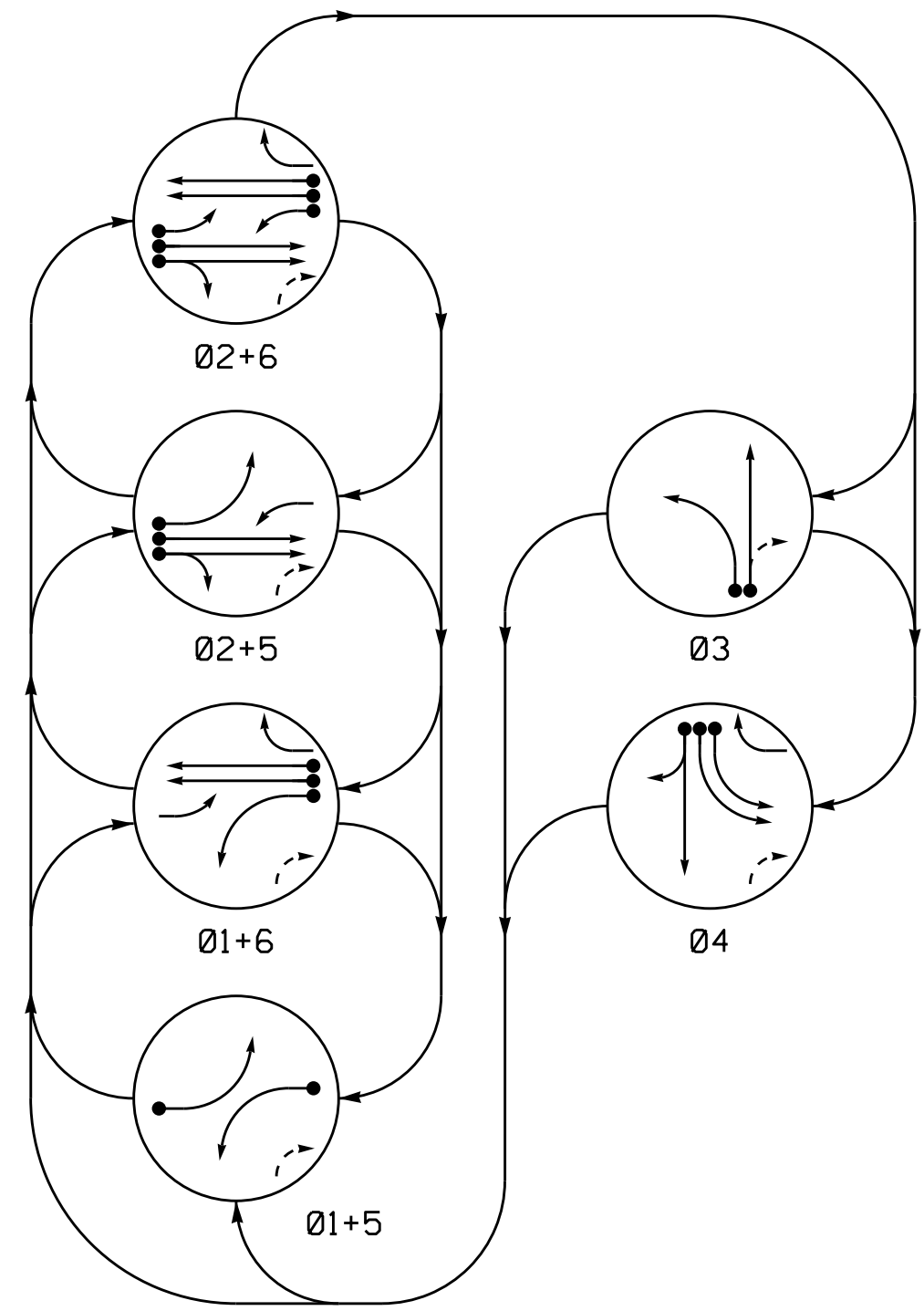


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

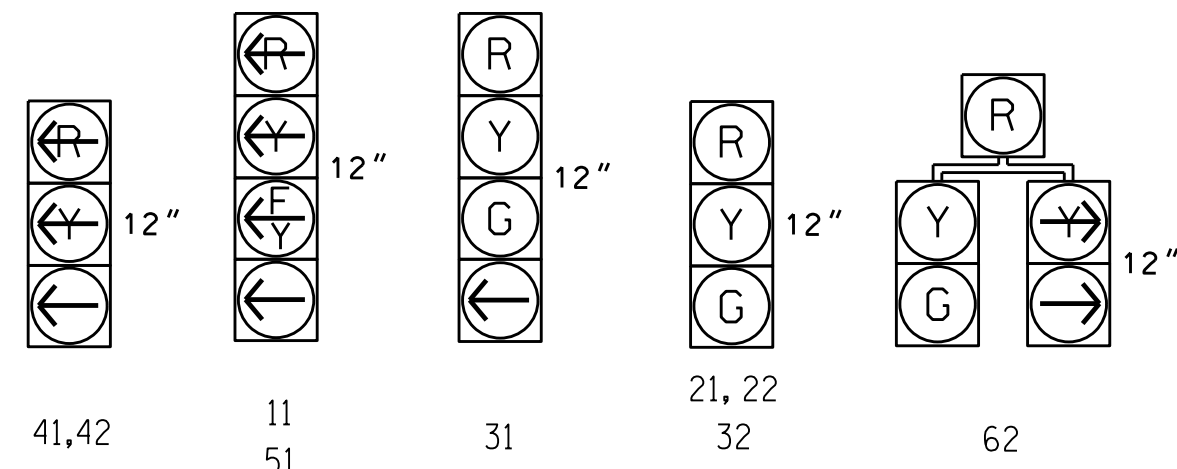


TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3	Ø 4
11	-	-	F	F	R	Y
21,22	R	R	G	G	R	Y
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41,42	R	R	R	R	R	Y
43,44	R	R	R	R	R	G
51	-	F	F	F	R	Y
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y

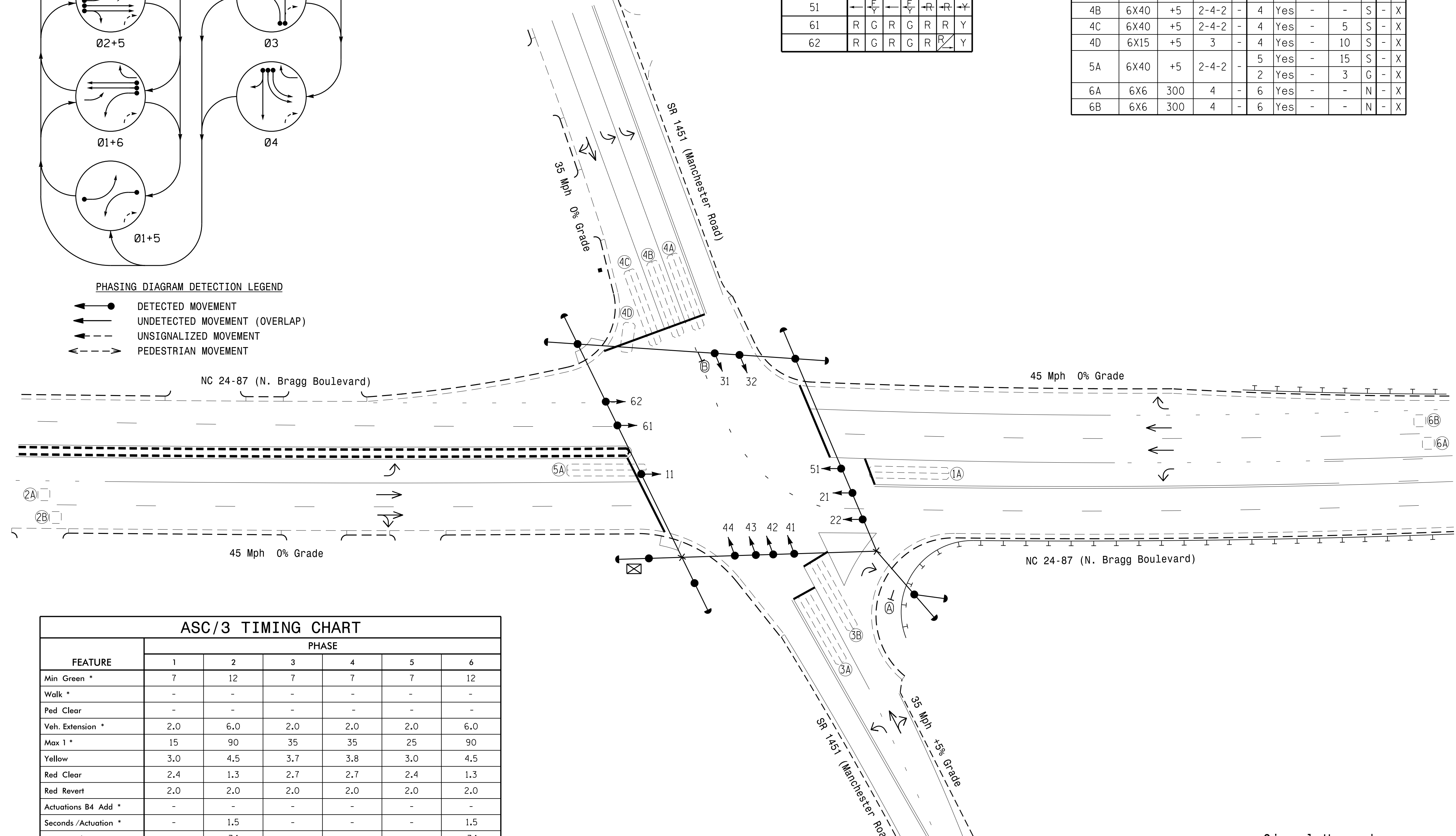
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTEND TIME	DELAY TIME		
1A	6X40	0	2-4-2	-	1	Yes	-	15	S	- X
2A	6X6	300	4	-	6	Yes	-	3	G	- X
2B	6X6	300	4	-	2	Yes	-	-	N	- X
3A	6X40	0	2-4-2	-	3	Yes	-	3	S	- X
3B	6X40	0	2-4-2	-	3	Yes	-	5	S	- X
4A	6X40	+5	2-4-2	-	4	Yes	-	3	S	- X
4B	6X40	+5	2-4-2	-	4	Yes	-	-	S	- X
4C	6X40	+5	2-4-2	-	4	Yes	-	5	S	- X
4D	6X15	+5	3	-	4	Yes	-	10	S	- X
5A	6X40	+5	2-4-2	-	5	Yes	-	15	S	- X
6A	6X6	300	4	-	2	Yes	-	3	G	- X
6B	6X6	300	4	-	6	Yes	-	-	N	- X

6 Phase Fully Actuated Fayetteville Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max I *	15	90	35	35	25	90
Yellow	3.0	4.5	3.7	3.8	3.0	4.5
Red Clear	2.4	1.3	2.7	2.7	2.4	1.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-
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

* 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	● → N/A
○ → Modified Signal Head	○ → N/A
○ → Sign	○ → N/A
○ → Pedestrian Signal Head With Push Button & Sign	○ → N/A
○ → Signal Pole with Guy	○ → N/A
○ → Signal Pole with Sidewalk Guy	○ → N/A
○ → Inductive Loop Detector	○ → N/A
○ → Controller & Cabinet	○ → N/A
○ → Junction Box	○ → N/A
○ → 2-in Underground Conduit	○ → N/A
○ → Right of Way	○ → N/A
○ → Directional Arrow	○ → N/A
○ → Guard Rail	○ → N/A
○ → "YIELD" Sign (R1-2)	○ → N/A
○ → Left Arrow "ONLY" Sign (R3-5L)	○ → N/A

Signal Upgrade

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

NC 24-87 (N. Bragg Boulevard) at SR 1451 (Manchester Road)

Division 6 Cumberland County Spring Lake

PLAN DATE: February 2016 REVIEWED BY: JPG, PE

PREPARED BY: EMM/JPG REVIEWED BY: PLA

SCALE 1"=30'

REVISIONS: _____ INIT. DATE

DocuSigned by: Jason P. Gallaway 3/8/2016

SEAL: JASON P. GALLAWAY ENGINEER SEAL 029904

SIG. INVENTORY NO. 06-0073

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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