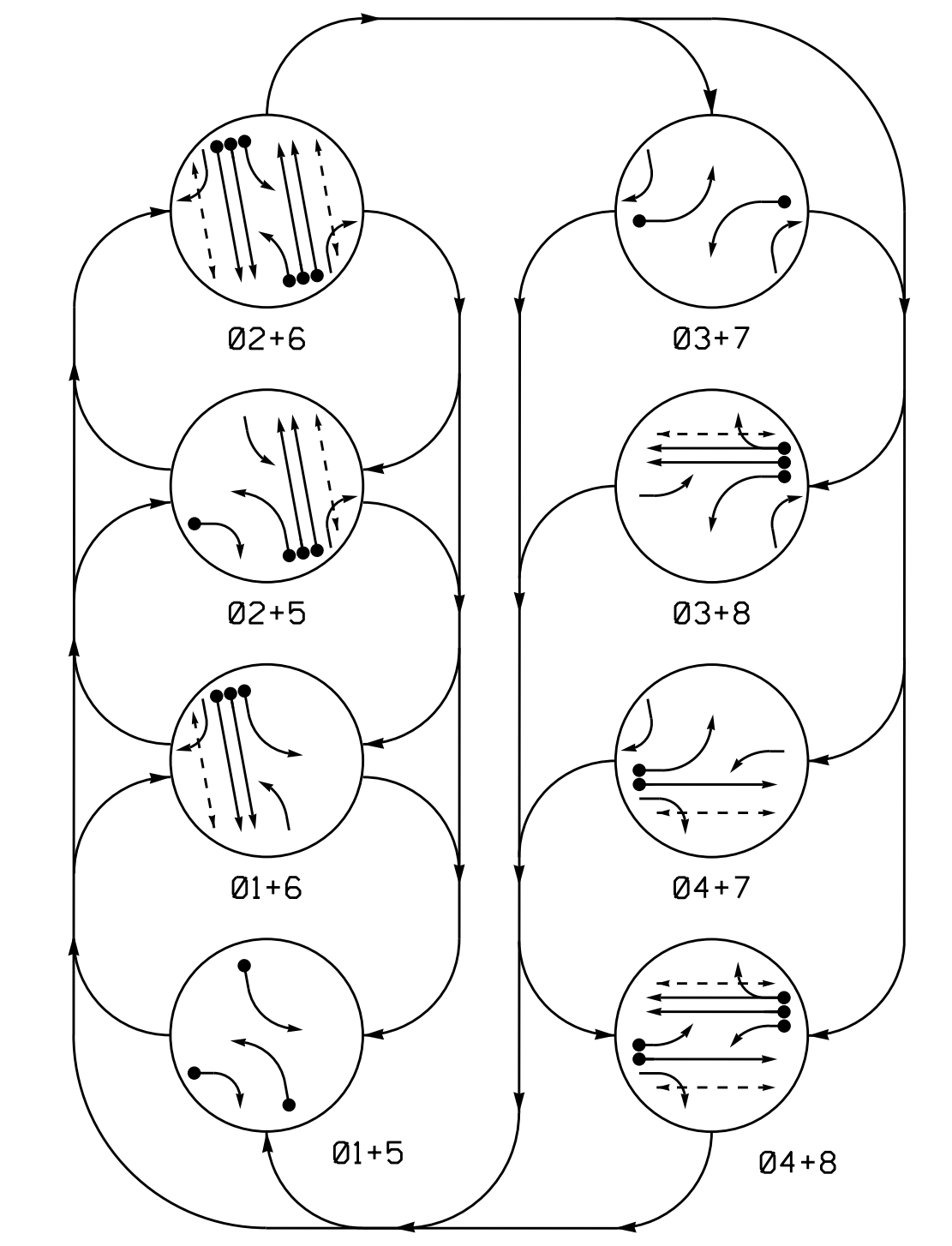
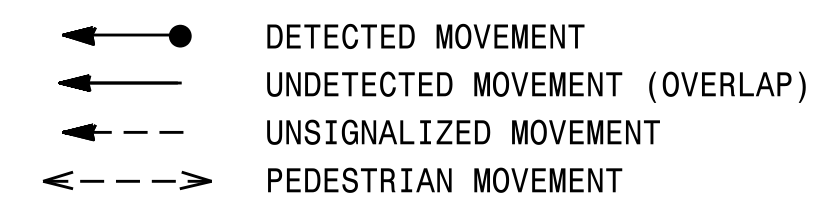


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE I.D.

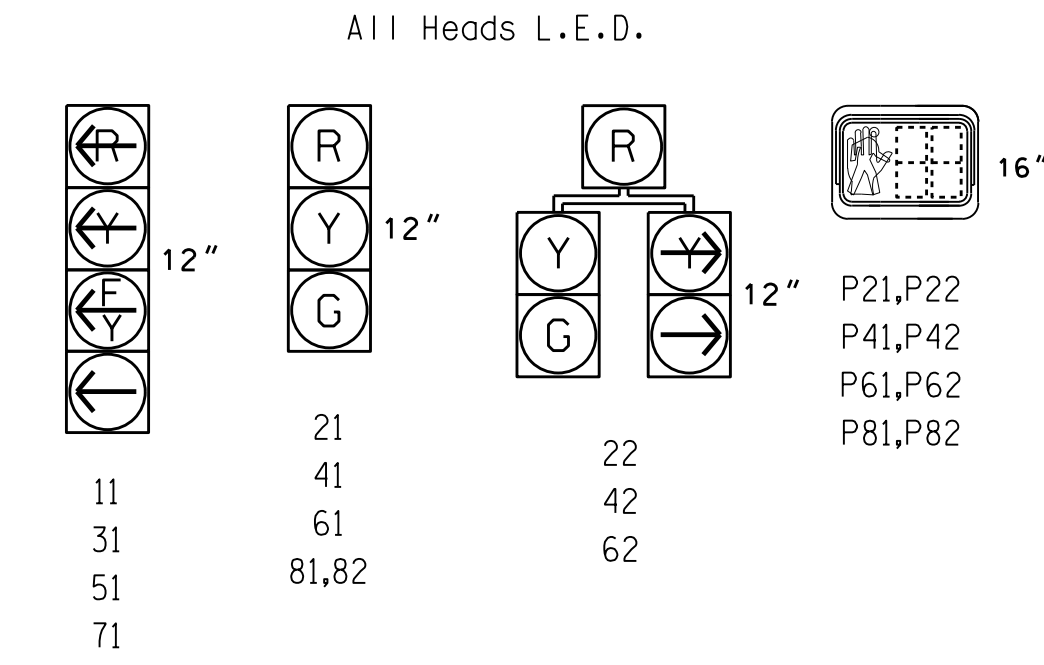


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	R	Y
22	R	R	G	G	R	R	R	Y
31	←	←	←	←	←	←	←	←
41	R	R	R	R	R	R	G	G
42	R	R	R	R	R	R	G	G
51	←	←	←	←	←	←	←	←
61	R	G	R	G	R	R	R	Y
62	R	G	R	G	R	R	R	Y
71	←	←	←	←	←	←	←	←
81,82	R	R	R	R	R	G	R	G
P21,P22	DW	DW	W	W	DW	DW	DW	DRK
P41,P42	DW	DW	DW	DW	DW	W	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DW	DRK
P81,P82	DW	DW	DW	DW	W	DW	W	DRK

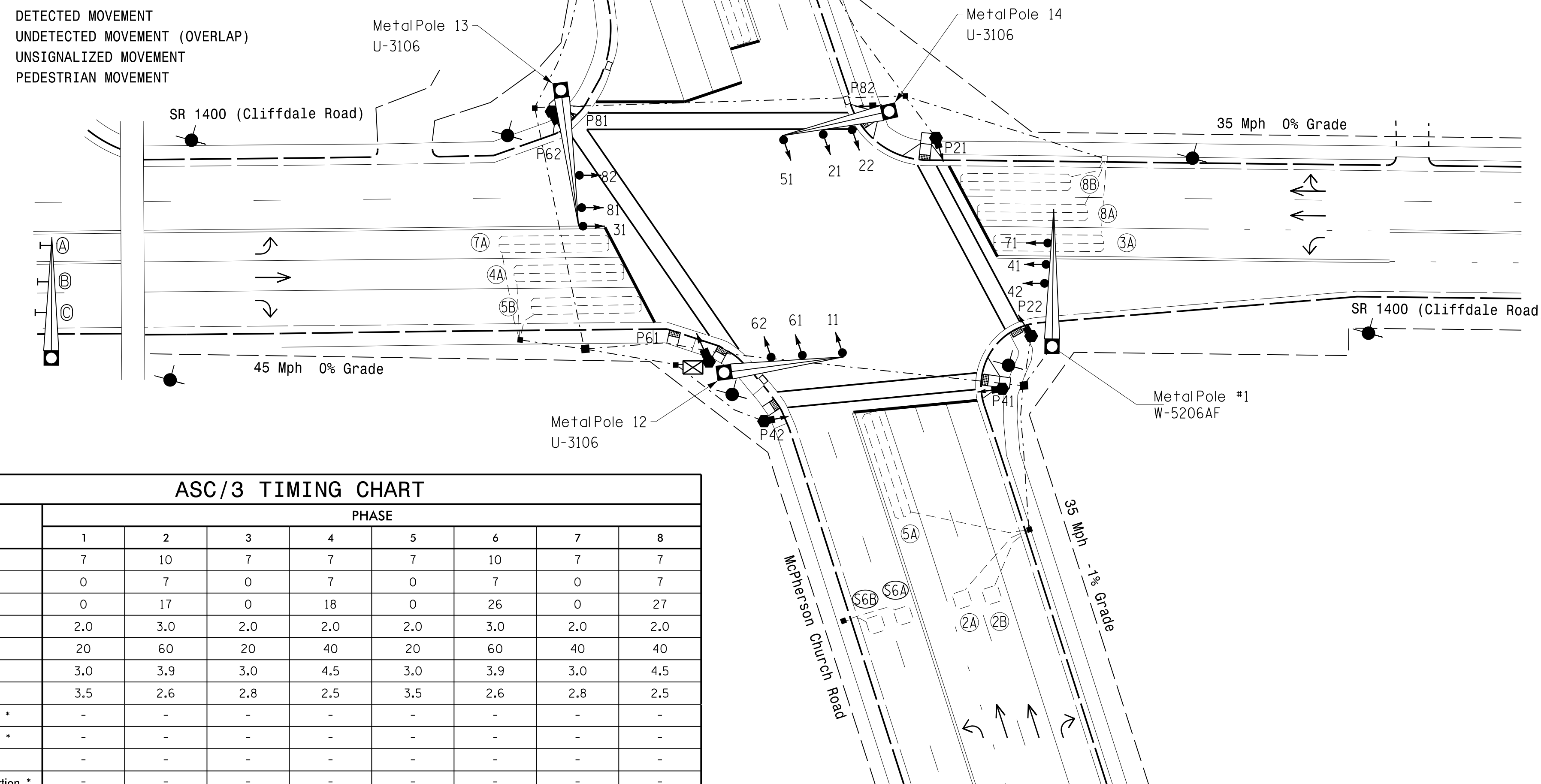
ASC/3 DETECTOR INSTALLATION CHART

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,2B	6X6	70	4	-	2	Yes	-	-	S	X
3A	6X40	0	2-4-2	-	3	Yes	-	15	S	X
4A	6X40	0	2-4-2	-	4	Yes	-	3	S	X
5A	6X40	0	2-4-2	-	5	Yes	-	15	S	X
5B	6X40	0	2-4-2	-	5	Yes	-	20	S	X
6A,6B	6X6	70	4	-	6	Yes	-	-	S	X
7A	6X40	0	2-4-2	-	7	Yes	-	15	S	X
8A	6X40	0	2-4-2	-	8	Yes	-	-	S	X
8B	6X40	0	2-4-2	-	8	Yes	-	10	S	X
S2A	6X6	+240	5	-	-	No	-	-	N	X
S2B	6X6	+240	5	-	-	No	-	-	N	X
S6A	6X6	+200	3	-	-	No	-	-	N	X
S6B	6X6	+200	3	-	-	No	-	-	N	X

8 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.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

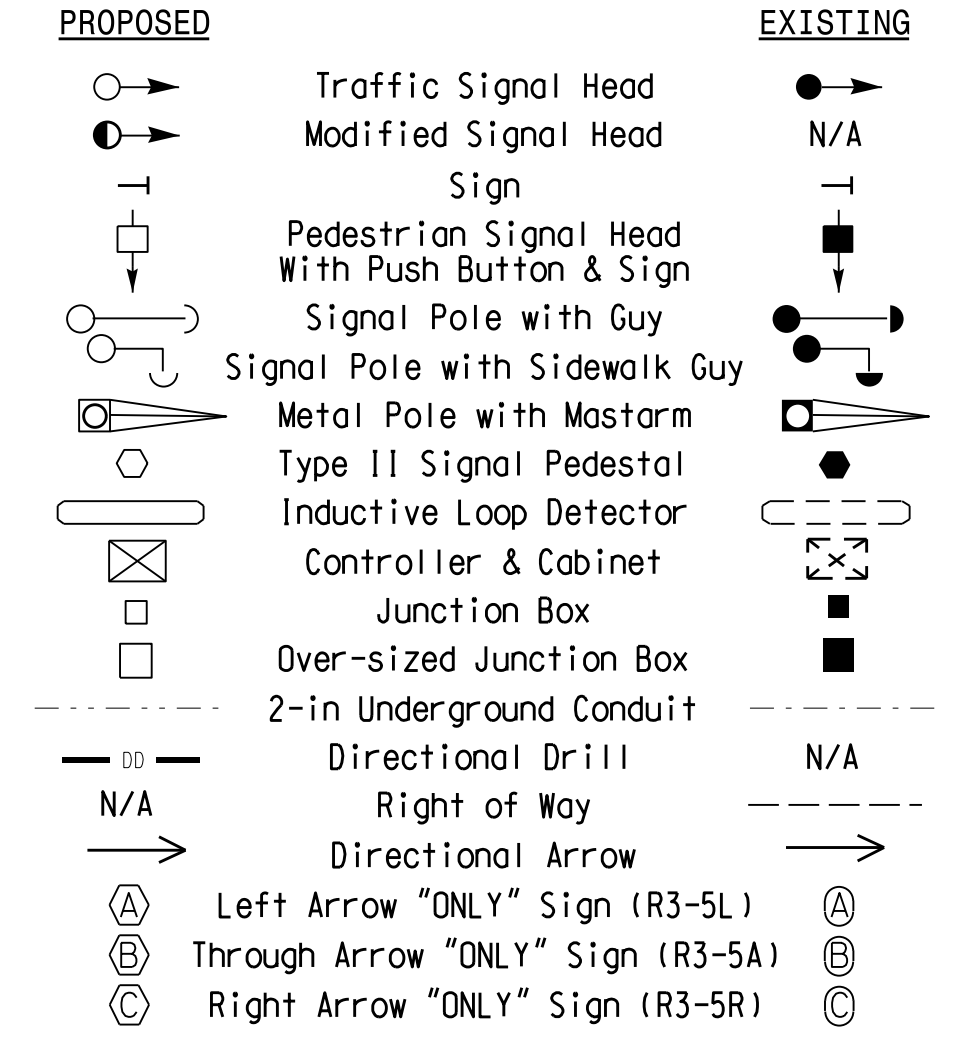


ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	10	7	7	7	10	7	7
Walk *	0	7	0	7	0	7	0	7
Ped Clear	0	17	0	18	0	26	0	27
Veh. Extension *	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0
Max 1 *	20	60	20	40	20	60	40	40
Yellow	3.0	3.9	3.0	4.5	3.0	3.9	3.0	4.5
Red Clear	3.5	2.6	2.8	2.5	3.5	2.6	2.8	2.5
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	-	-	-	-	-	-	-
Max Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL	-	-
Dual Entry	-	-	-	X	-	-	-	X
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



Signal Upgrade

Prepared In the Offices of:

McPherson Church Road at SR 1400 (Cliffdale Road)

Division 6 Cumberland County Fayetteville

PLAN DATE: March 2016 REVIEWED BY: JPG

PREPARED BY: Jeff Spence REVIEWED BY:

REVISIONS INIT. DATE

SCALE 1"=30'

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL Jason P. Gallaway 3/30/2016

SIG. INVENTORY NO. 06-0225

3/1/2016 10:15:17
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