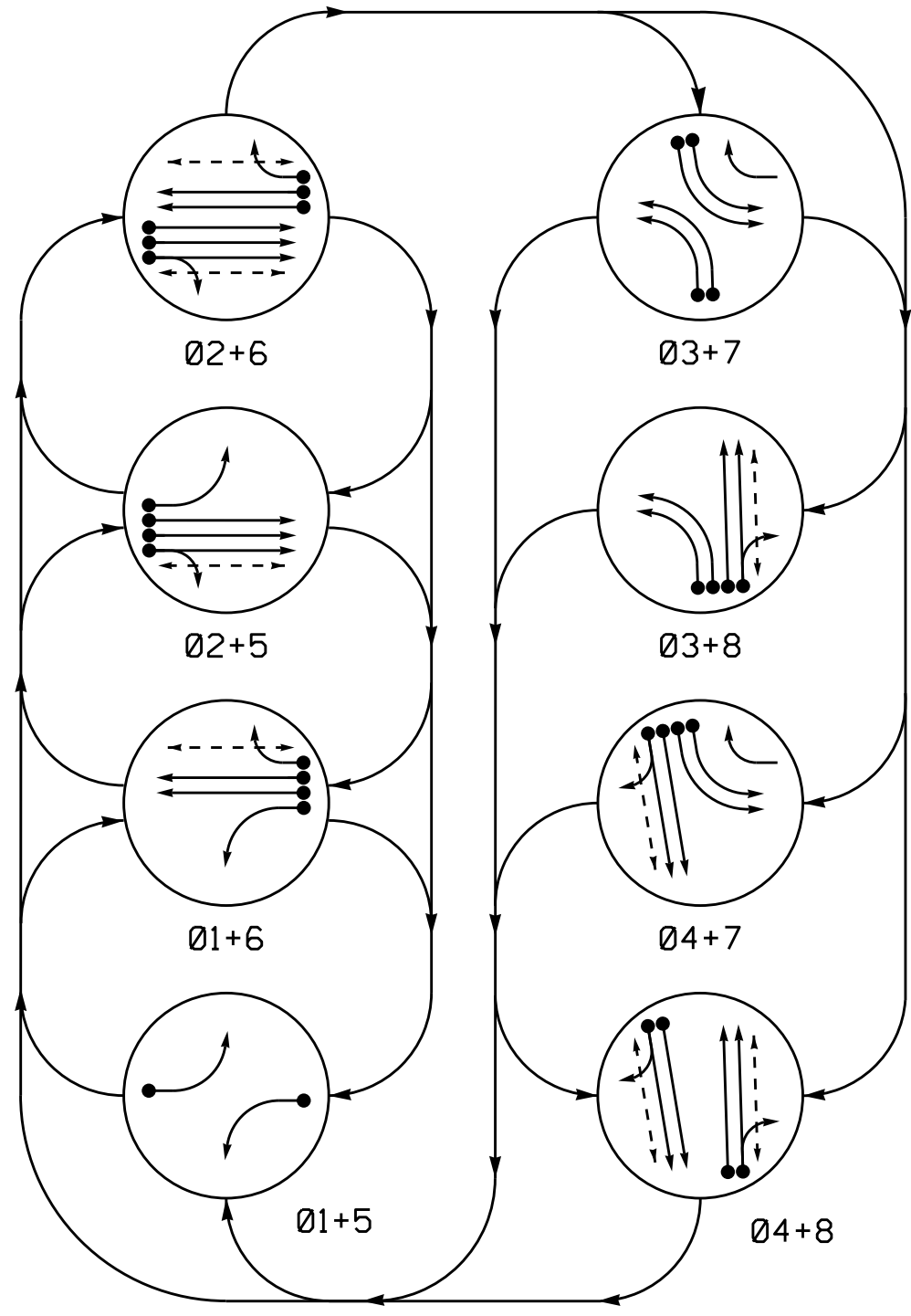
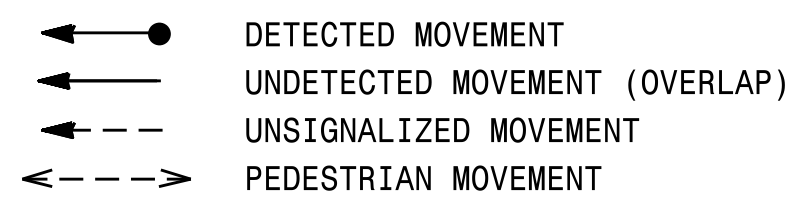


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE I.D.

All Heads L.E.D.

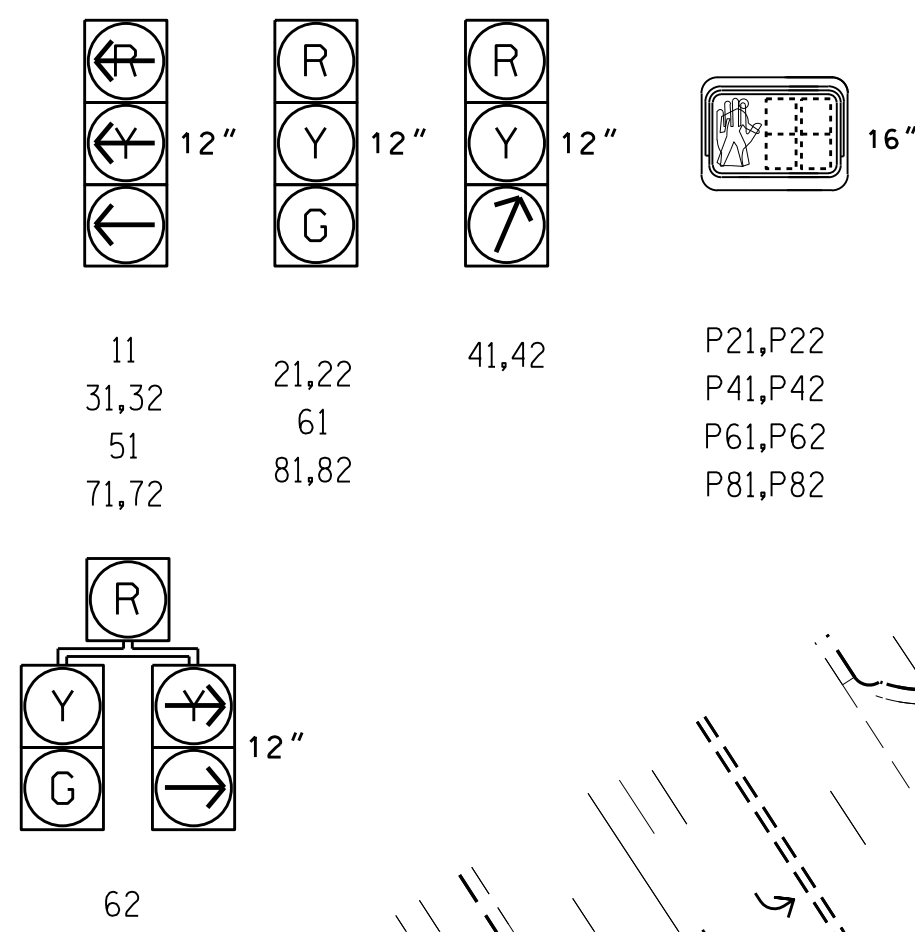


TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH
	01+5	02+6	03+7	04+8	01+5	02+6	03+7	04+8	
11	---	---	---	---	---	---	---	---	---
21, 22	R	R	G	G	R	R	R	R	Y
31, 32	---	---	---	---	---	---	---	---	---
41, 42	R	R	R	R	R	R	/	/	R
51	---	---	---	---	---	---	---	---	---
61	R	G	R	G	R	R	R	R	Y
62	R	G	R	G	R	R	/	/	Y
71, 72	---	---	---	---	---	---	---	---	---
81, 82	R	R	R	R	G	R	G	R	---
P21, P22	DW	DW	W	W	DW	DW	DW	DRK	---
P41, P42	DW	DW	DW	DW	DW	DW	W	DRK	---
P61, P62	DW	W	DW	W	DW	DW	DW	DRK	---
P81, P82	DW	DW	DW	DW	DW	W	DW	DRK	---

ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DETECTOR		PROGRAMMING					TYPE	SYSTEM LOOP	NEW CARD
		DISTANCE FROM STOPBAR (FT)	TURNS	PHASE	CALLING	EXTEND TIME	DELAY TIME				
1A	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
2A,2B,2C	6X6	70	4	-	2	Yes	-	-	S	-	X
3A	6X40	0	2-4-2	-	3	Yes	-	3	S	-	X
3B	6X40	0	2-4-2	-	3	Yes	-	-	S	-	X
4A	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
4B	6X40	0	2-4-2	-	4	Yes	-	5	S	-	X
4C	6X15	0	3	-	4	Yes	-	10	S	-	X
5A	6X40	0	2-4-2	-	5	Yes	-	3	S	-	X
6A,6B,6C	6X6	70	3	-	6	Yes	-	-	S	-	X
7A	6X40	0	2-4-2	-	7	Yes	-	-	S	-	X
7B	6X40	0	2-4-2	-	7	Yes	-	-	S	-	X
8A	6X40	0	2-4-2	-	8	Yes	-	-	S	-	X
8B	6X40	0	2-4-2	-	8	Yes	-	5	S	-	X
8C	6X6	0	4	-	8	Yes	-	10	S	-	X

8 Phase Fully Actuated Fayetteville Signal System

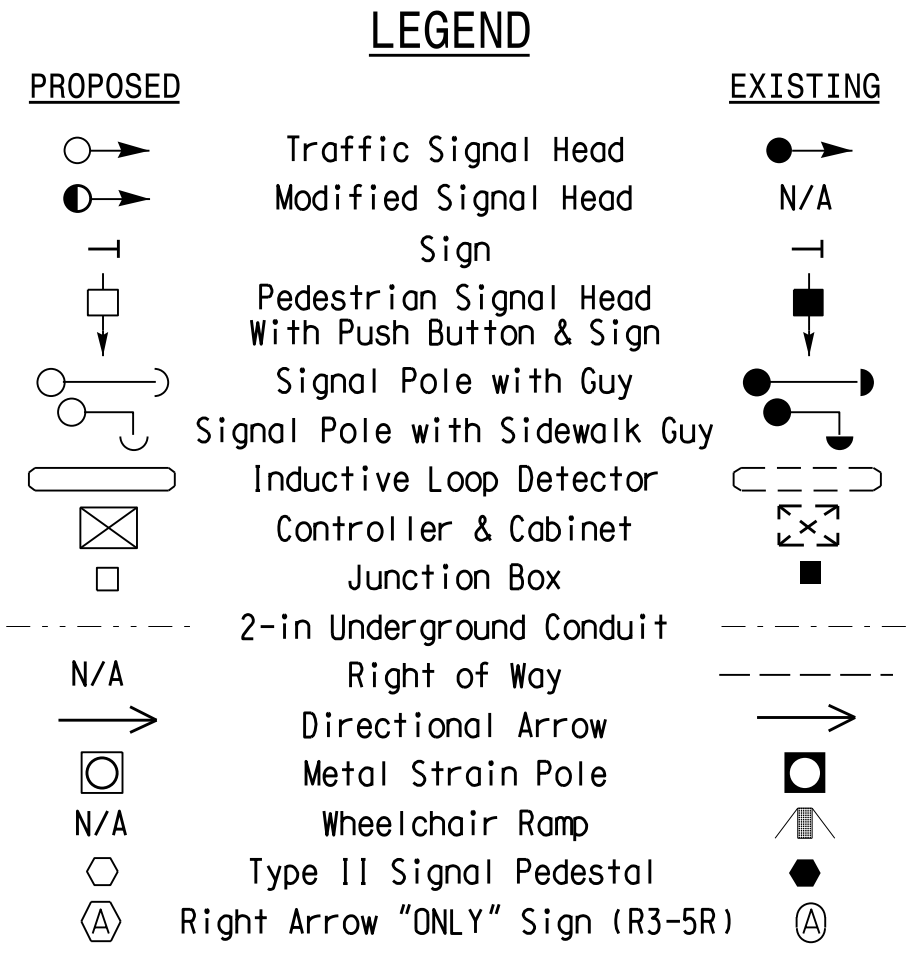
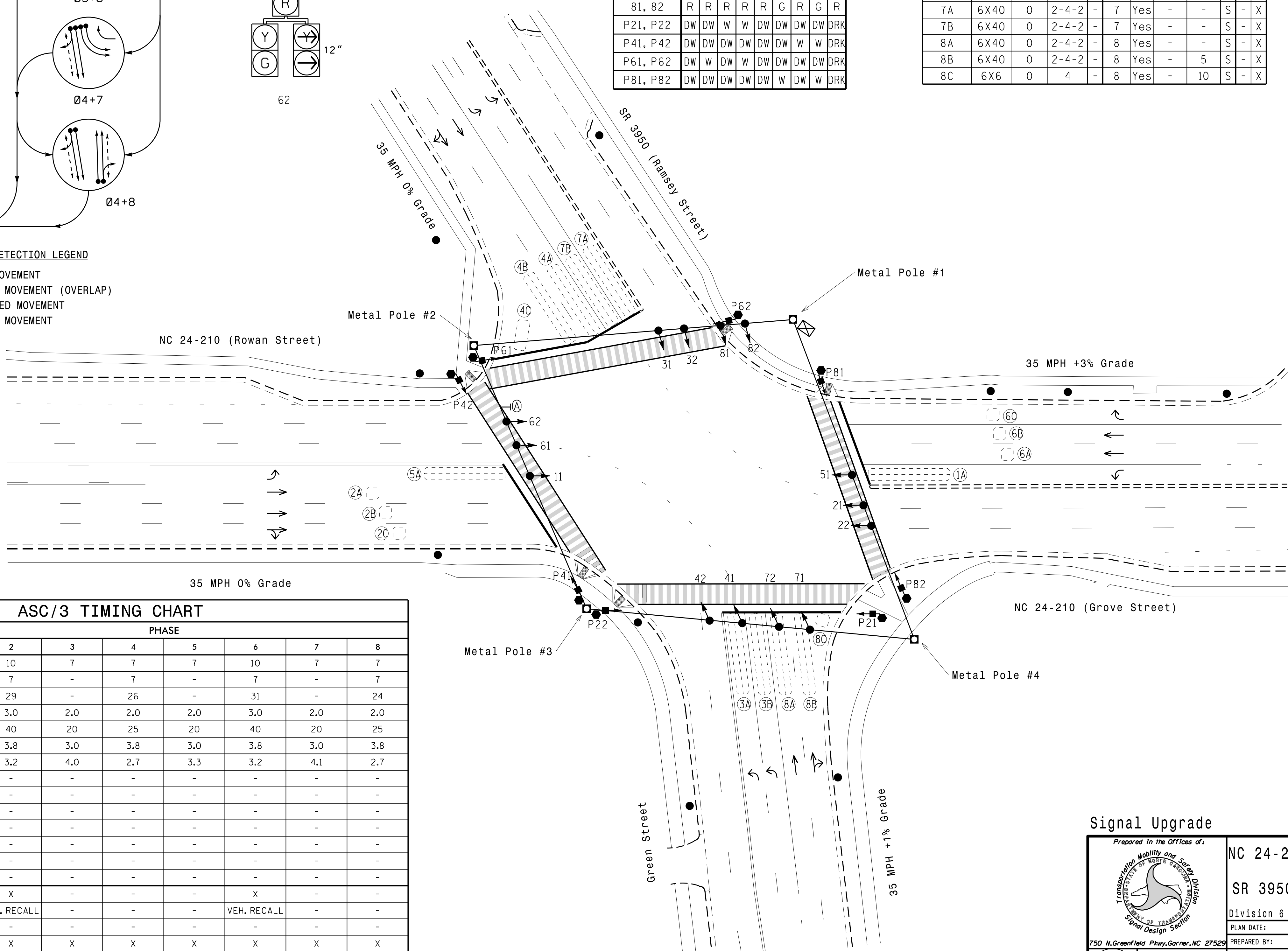
NOTES

- 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 *	-	7	-	7	-	7	-	7
Ped Clear	-	29	-	26	-	31	-	24
Veh. Extension *	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0
Max I *	20	40	20	25	20	40	20	25
Yellow	3.0	3.8	3.0	3.8	3.0	3.8	3.0	3.8
Red Clear	3.2	3.2	4.0	2.7	3.3	3.2	4.1	2.7
Red Revert	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
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.



Signal Upgrade

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

NC 24-210 (Grove St./Rowan St.) at SR 3950 (Ramsey St.)/Green St.

Division 6 Cumberland County Fayetteville

PLAN DATE: April 2016 REVIEWED BY: JPG

PREPARED BY: Devin Smith REVIEWED BY:

REVISIONS: _____ INIT. DATE

SCALE: 1"=30'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: JASON P. GALLOWAY, PROFESSIONAL ENGINEER, No. 029904, State of North Carolina

SIG. INVENTORY NO. 06-0040

06-MAY-2016 11:38 S:\MIS\5742\SIG\17.0_Signal\Signal Design Section\Eastern Region\01-06-16\5742_Fayetteville ASC\3950-0040\600040_s1a.dsn_2016mmds.dgn J:\JG\170011.dwg