

6 Phase Fully Actuated Fayetteville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
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. Phase 7 may be lagged.
5. Set all detector units to presence mode.
6. 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.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM

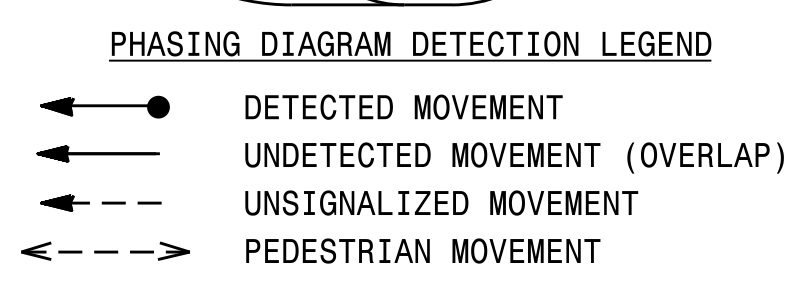
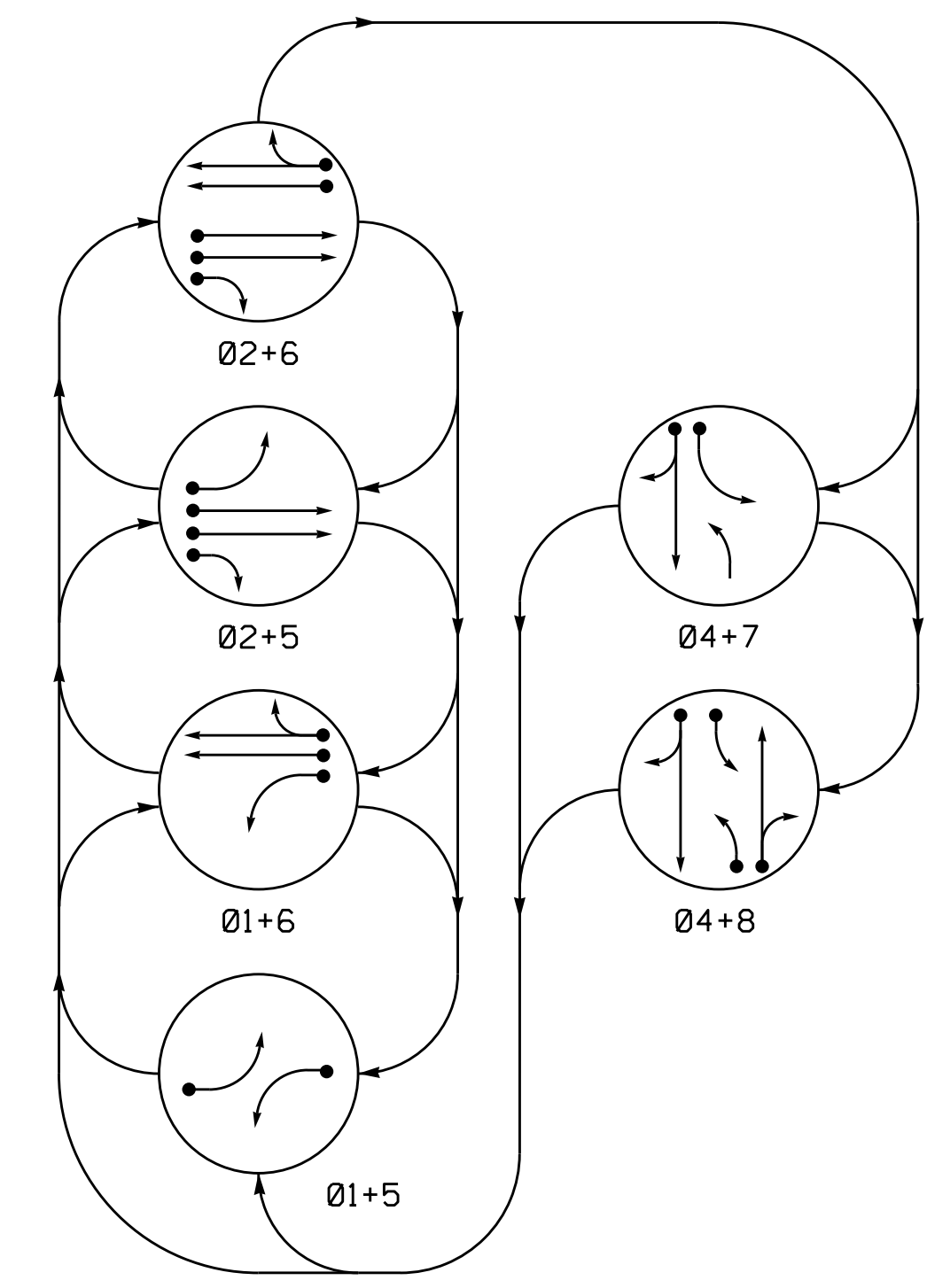
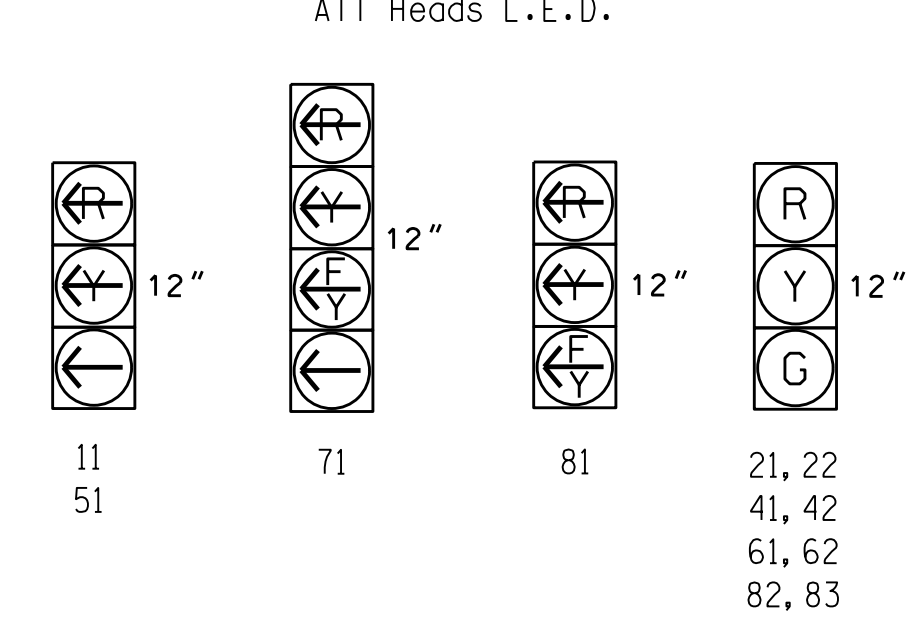


TABLE OF OPERATION

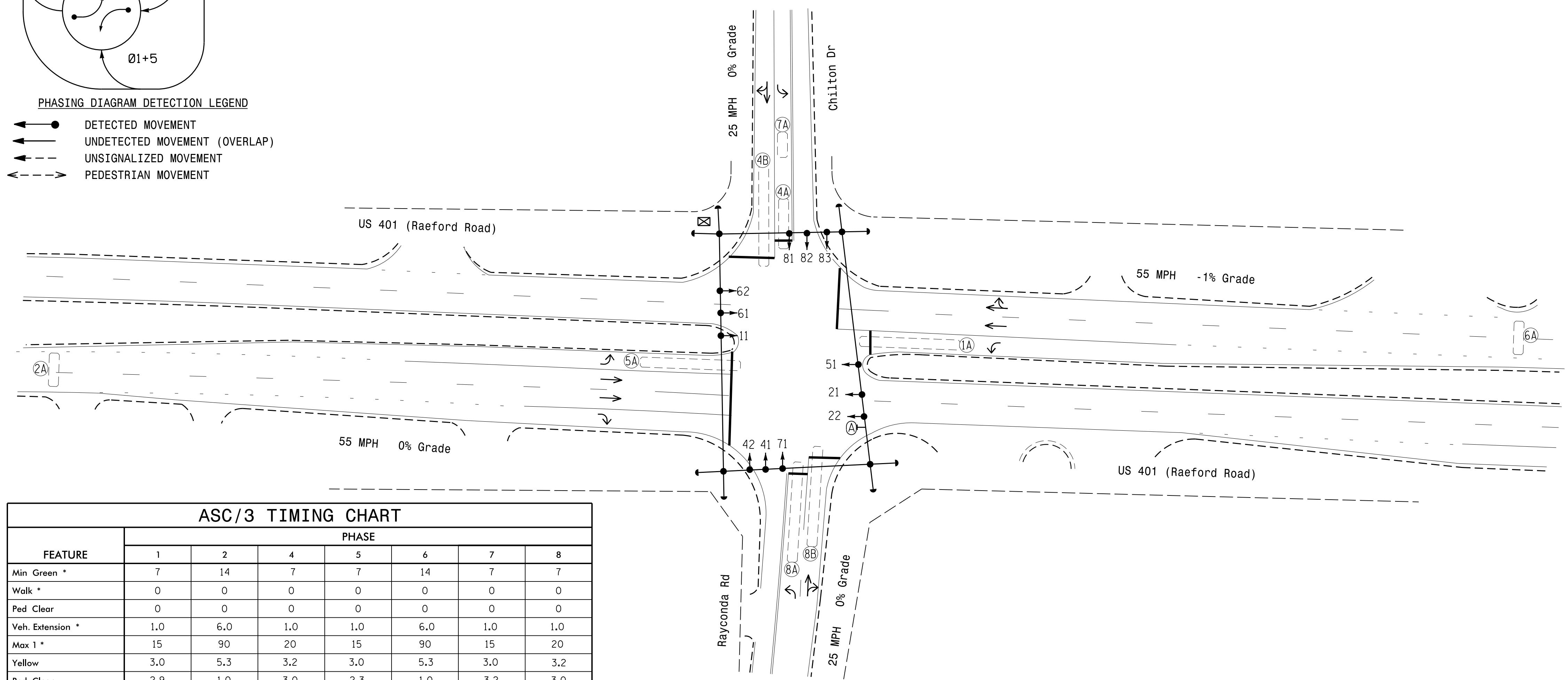
SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	04+7	04+8	FOOD	F
11	—	—	—	—	—	—	—	—
21,22	R	R	G	G	R	R	Y	
41,42	R	R	R	R	G	G	R	
51	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	Y	
71	—	—	—	—	—	—	—	—
81	—	—	—	—	—	—	—	—
82,83	R	R	R	R	R	G	R	

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X60	+5	1	-	1	Yes	-	-	S	-	X
2A	6X20	405	2	-	2	Yes	-	-	N	-	X
4A	6X30	+5	2	-	4	Yes	-	3	S	-	X
4B	6X60	+5	1	-	4	Yes	-	10	S	-	X
5A	6X60	+5	1	-	5	Yes	-	-	S	-	X
6A	6X20	405	2	-	6	Yes	-	-	N	-	X
7A	6X15	50	2	-	7	Yes	-	5	S	-	X
8A	6X60	+5	1	-	8	Yes	-	5	S	-	X
8B	6X60	+5	1	-	8	Yes	-	5	S	-	X

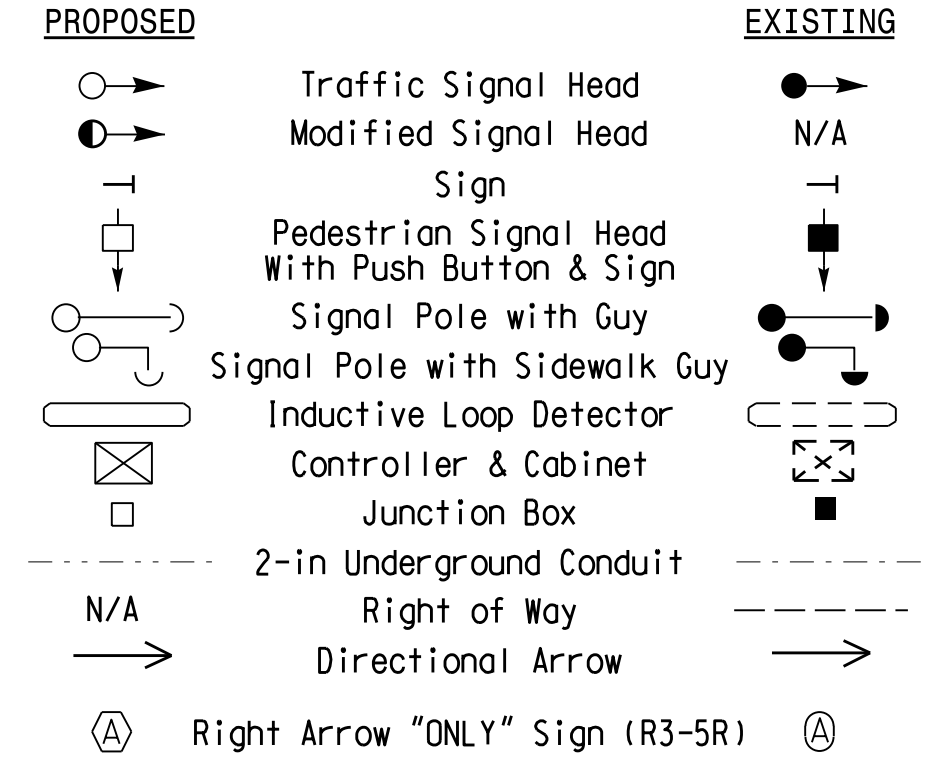


ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	7	8	
Min Green *	7	14	7	7	14	7	7	
Walk *	0	0	0	0	0	0	0	
Ped Clear	0	0	0	0	0	0	0	
Veh. Extension *	1.0	6.0	1.0	1.0	6.0	1.0	1.0	
Max 1 *	15	90	20	15	90	15	20	
Yellow	3.0	5.3	3.2	3.0	5.3	3.0	3.2	
Red Clear	2.9	1.0	3.0	2.3	1.0	3.2	3.0	
Actuations B4 Add *	-	0	-	-	0	-	-	
Seconds /Actuation *	-	2.0	-	-	2.0	-	-	
Max Initial *	-	45	-	-	45	-	-	
Time Before Reduction *	-	15	-	-	15	-	-	
Time To Reduce *	-	30	-	-	30	-	-	
Minimum Gap	-	3.4	-	-	3.4	-	-	
Locking Detector	-	X	-	-	X	-	-	
Recall Position	-	VEH. RECALL	-	-	VEH. RECALL	-	-	
Dual Entry	-	-	X	-	-	-	X	
Simultaneous Gap	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:

US 401 (Raeford Road) at Chilton Dr / Rayconda Rd

Division 6 Cumberland County Fayetteville

PLAN DATE: January 2016 REVIEWED BY: PLA, PE

PREPARED BY: EM Minshew REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 0 40 1"=40'

REVISIONS: \_\_\_\_\_ INIT. DATE

DocuSigned by: Jason P. Gallaway 5/31/2016

SIG. INVENTORY NO. 06-0767

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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