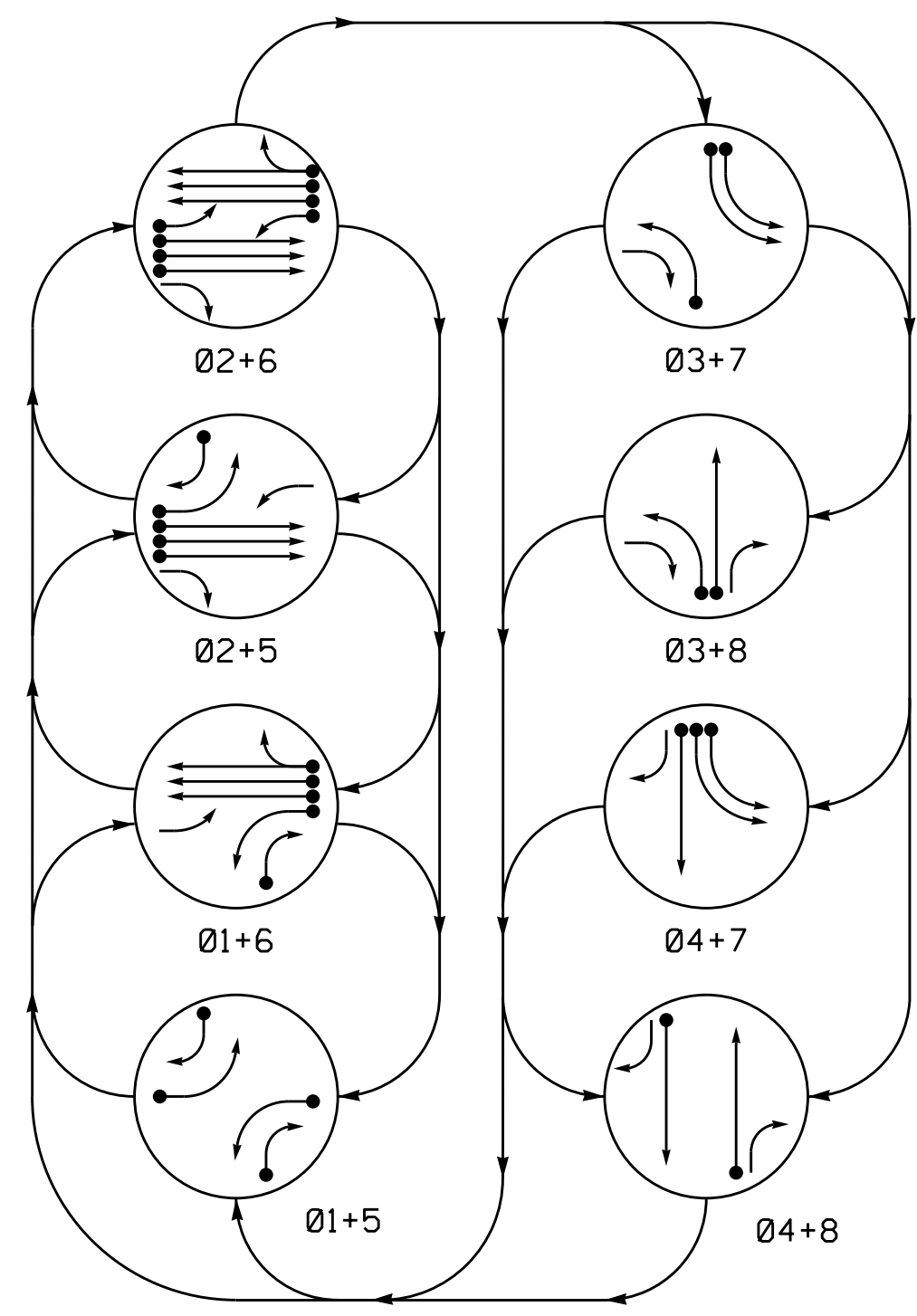


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

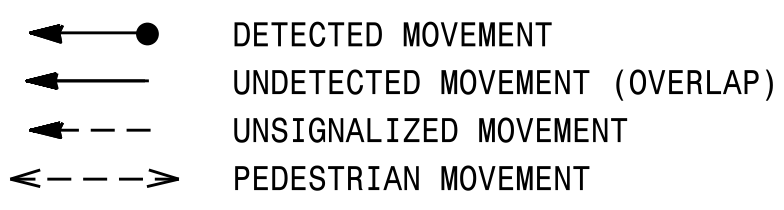
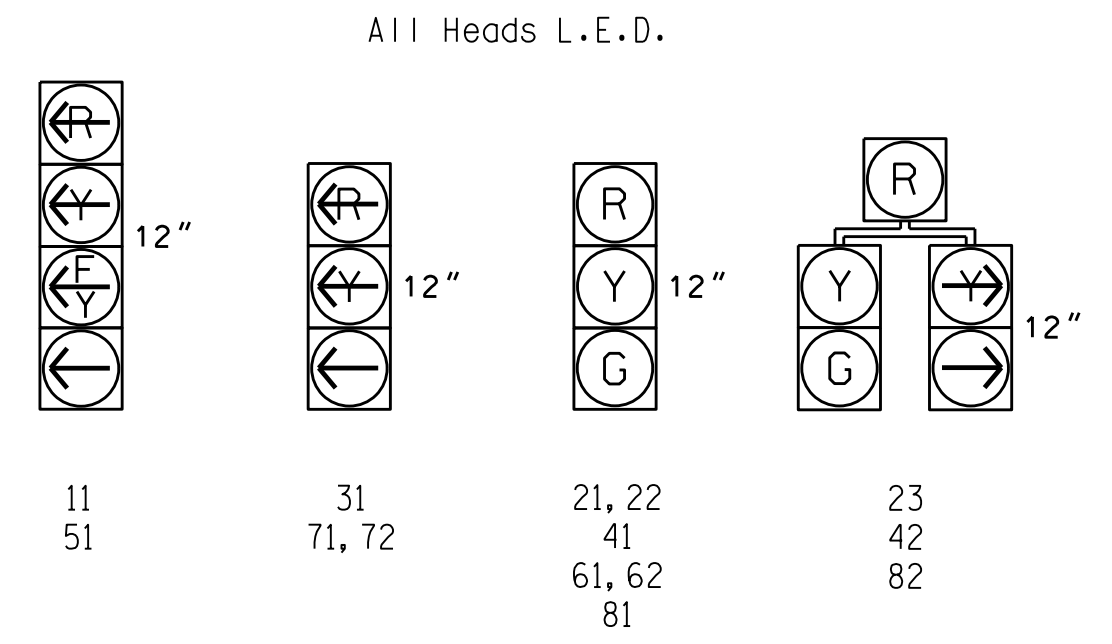


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	—	—	F	F	R	R	R	Y
21, 22	R	R	G	G	R	R	R	Y
23	R	R	G	G	R	R	R	Y
31	R	R	R	R	—	—	—	—
41	R	R	R	R	R	R	G	R
42	R	R	R	R	R	R	G	R
51	—	—	F	F	R	R	R	Y
61, 62	R	G	R	G	R	R	R	Y
71, 72	R	R	R	R	—	—	—	—
81	R	R	R	R	R	G	G	R
82	R	R	R	R	R	G	G	R

SIGNAL FACE I.D.



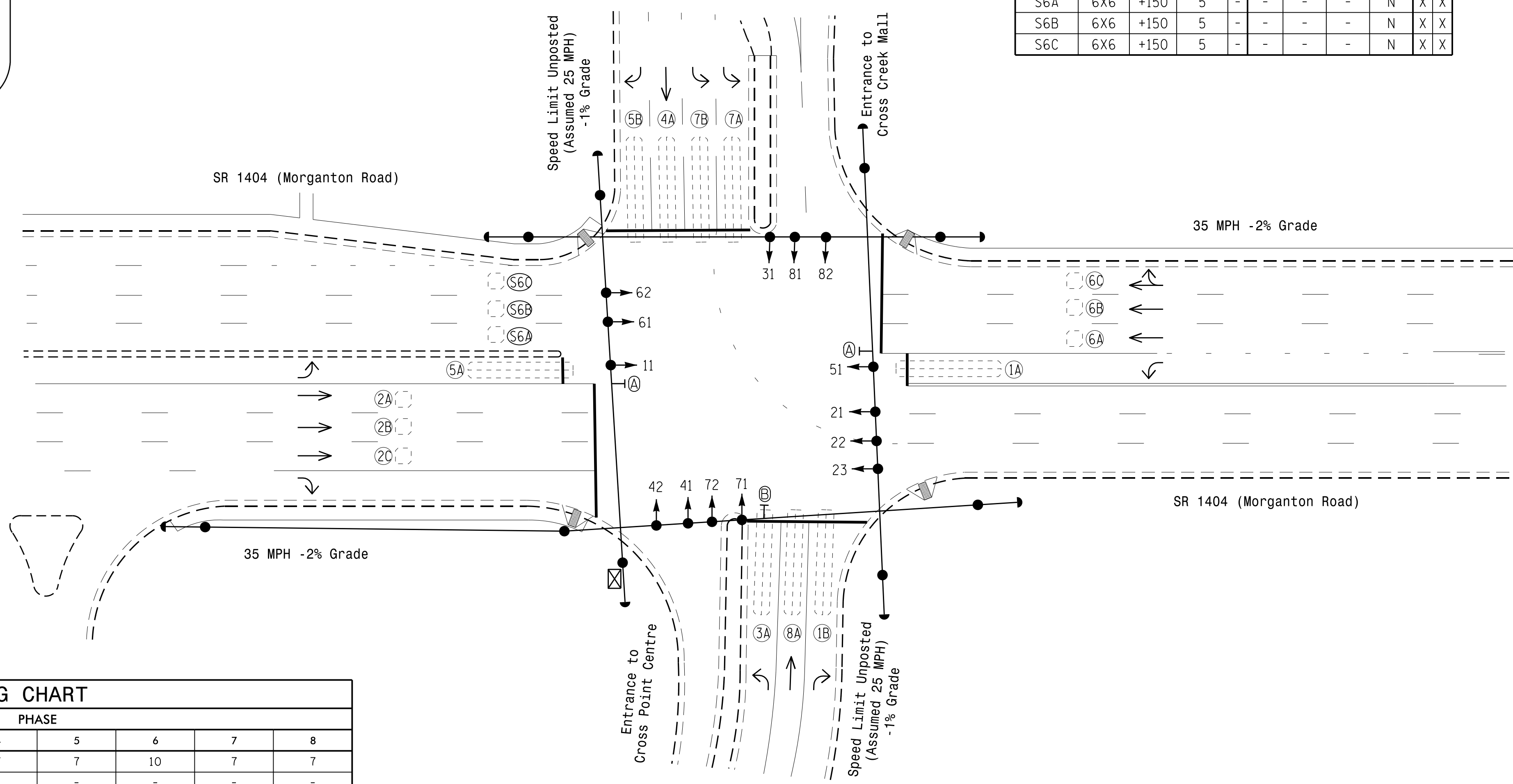
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	EXTEND TIME	DELAY TIME	TYPE		
1A	6X40	+5	2-4-2	-	1	-	15	S	-	X
1B	6X40	+5	2-4-2	-	6	-	-	S	-	X
2A,2B,2C	6X6	70	3	-	2	-	-	S	-	X
3A	6X40	+5	2-4-2	-	3	-	-	S	-	X
4A	6X40	+5	2-4-2	-	4	-	-	S	-	X
5A	6X40	+5	2-4-2	-	5	-	15	S	-	X
5B	6X40	+5	2-4-2	-	2	-	-	S	-	X
6A,6B,6C	6X6	70	3	-	6	-	-	S	-	X
7A	6X40	+5	2-4-2	-	7	-	-	S	-	X
7B	6X40	+5	2-4-2	-	7	-	-	S	-	X
8A	6X40	+5	2-4-2	-	8	-	-	S	-	X
S6A	6X6	+150	5	-	-	-	-	N	X	X
S6B	6X6	+150	5	-	-	-	-	N	X	X
S6C	6X6	+150	5	-	-	-	-	N	X	X

8 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 3 and/or 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.

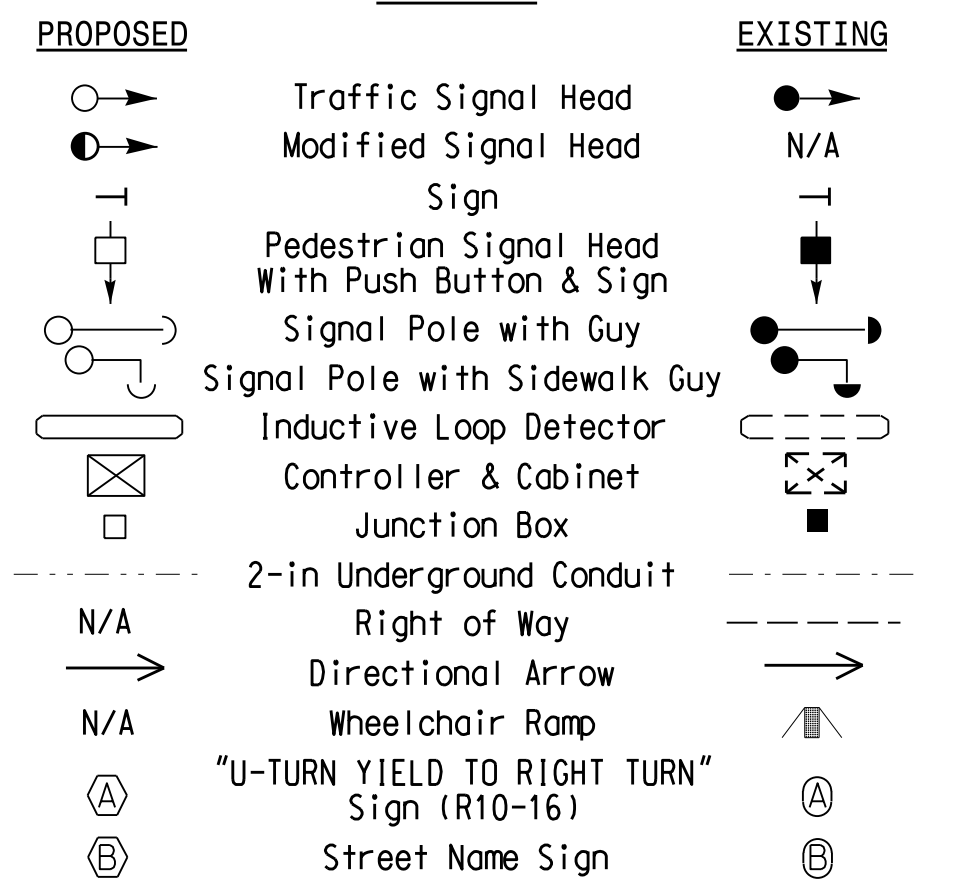


ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	10	7	7	7	10	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0
Max I *	25	45	25	25	25	45	25	25
Yellow	3.0	4.0	3.0	3.2	3.0	4.0	3.0	3.2
Red Clear	3.1	2.2	3.1	2.9	3.2	2.2	3.3	2.9
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.

LEGEND



Signal Upgrade

Prepared In the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529

SR 1404 (Morganton Road) at Cross Creek Mall/ Cross Point Centre  
 Division 6 Cumberland County Fayetteville  
 PLAN DATE: January 2016 REVIEWED BY: JG  
 PREPARED BY: Devin Smith REVIEWED BY:

SEAL  
 JASON P. GALLAGHER  
 PROFESSIONAL ENGINEER  
 No. 029904  
 DATE: 7/20/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 06-0530

2016-07-20 13:24  
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