

PHASING DIAGRAM

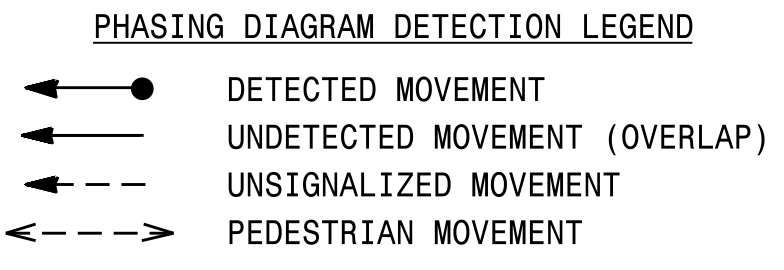
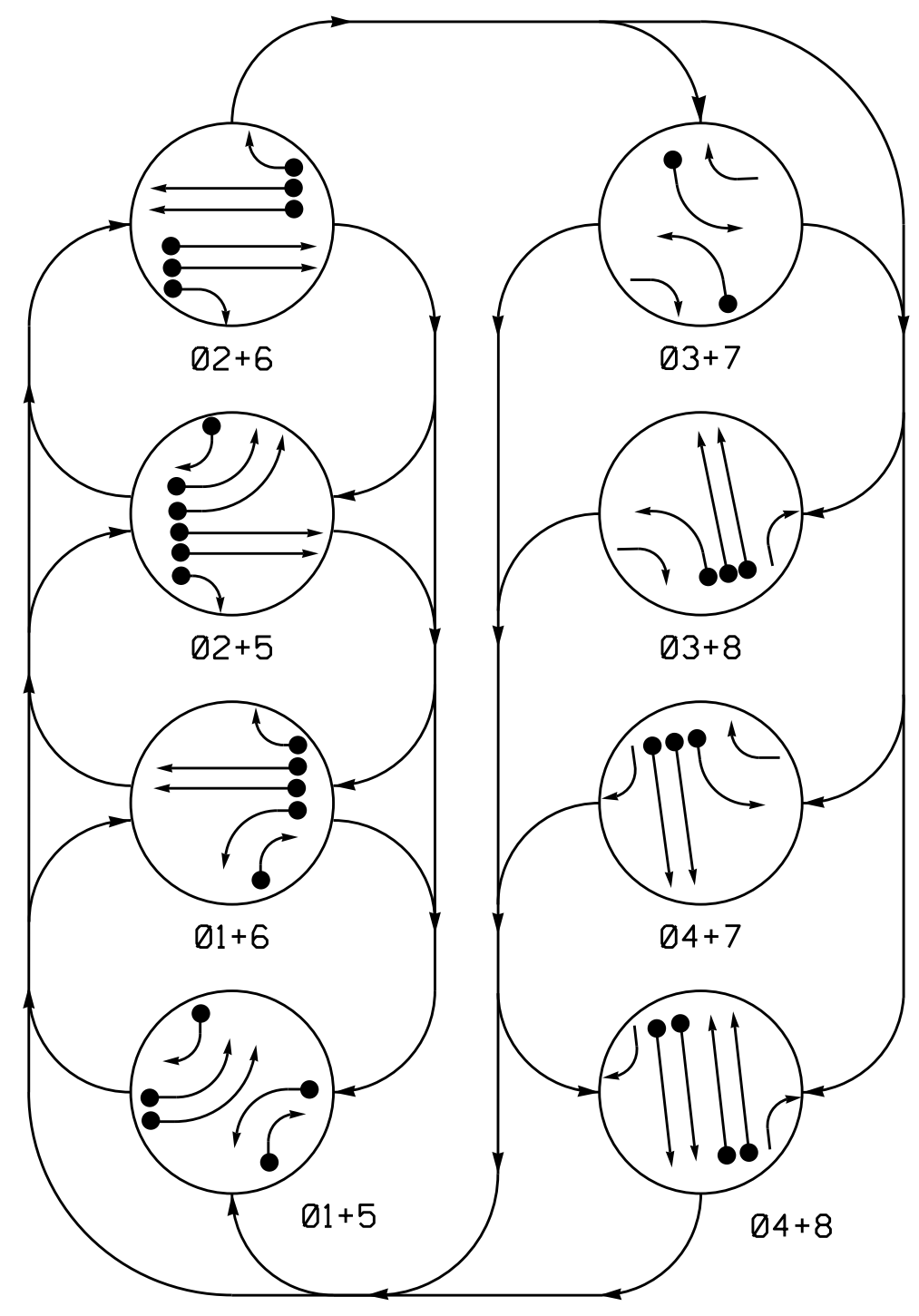
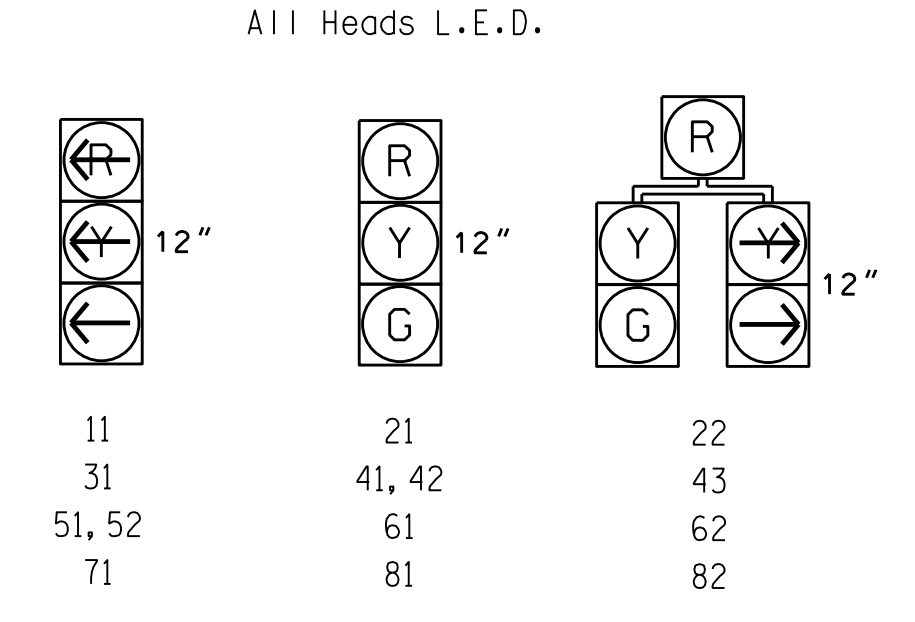


TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH
	01+5	02+5	03+5	03+7	03+8	04+7	04+8	F	
11	---	---	---	---	---	---	---	---	---
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R	R	R	R	Y
31	---	---	---	---	---	---	---	---	---
41,42	R	R	R	R	R	R	G	G	R
43	R	R	R	R	R	R	G	G	R
51,52	---	---	---	---	---	---	---	---	---
61	R	G	R	G	R	R	R	R	Y
62	R	G	R	G	R	R	R	R	Y
71	---	---	---	---	---	---	---	---	---
81	R	R	R	R	G	R	G	R	
82	R	R	R	R	G	R	G	R	

SIGNAL FACE I.D.



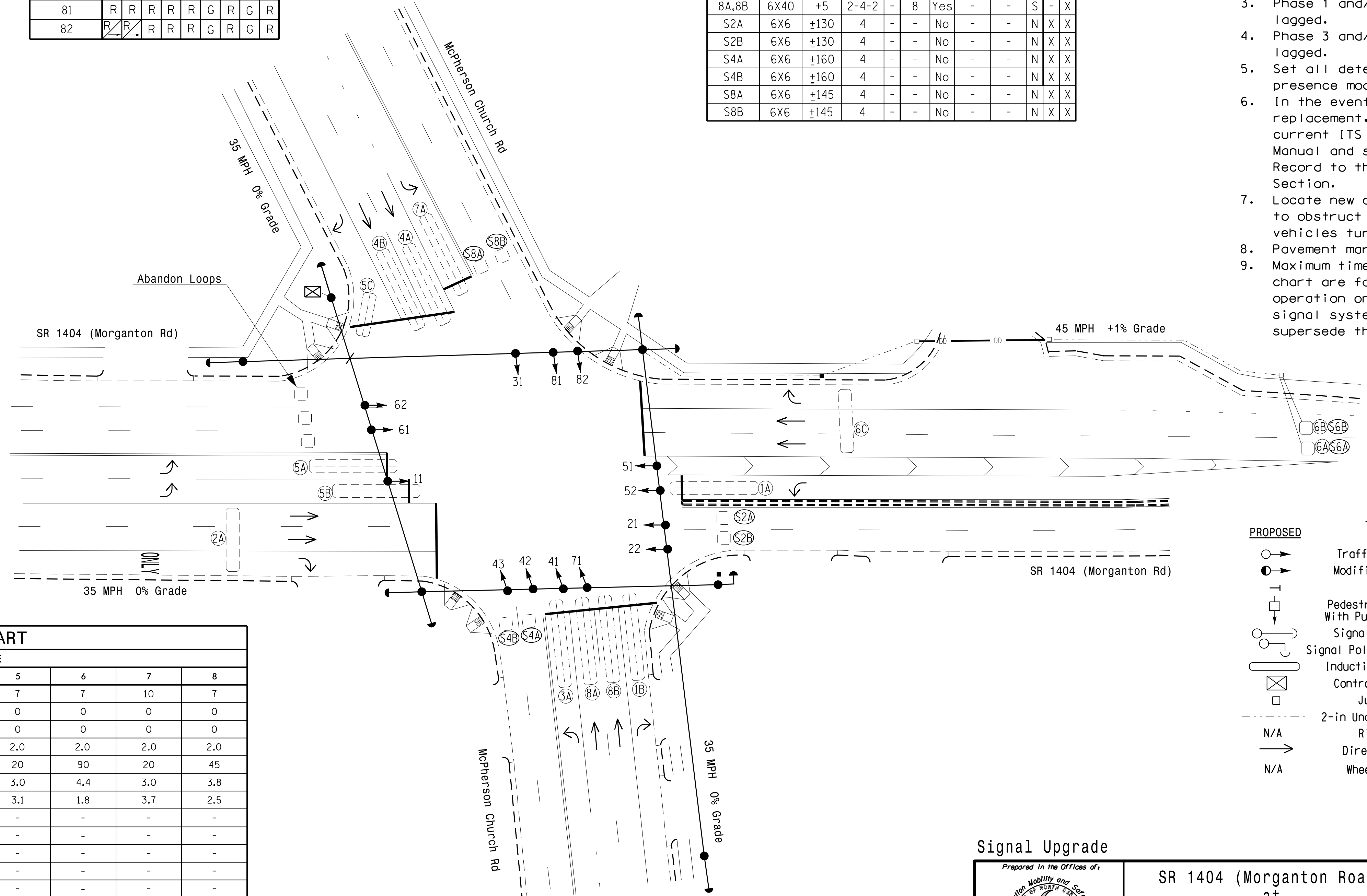
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	+5	2-4-2	-	1	Yes	-	-	S	-	X
1B	6X40	+5	2-4-2	-	1	Yes	-	15	S	-	X
2A	6X29	90	2	-	2	Yes	-	-	S	-	X
3A	6X40	+5	2-4-2	-	3	Yes	-	3	S	-	X
4A,4B	6X40	+5	2-4-2	-	4	Yes	-	-	S	-	X
5A,5B	6X40	+5	2-4-2	-	5	Yes	-	3	S	-	X
5C	6X20	+5	2-4-2	-	5	Yes	-	15	S	-	X
S6A/6A	6X6	300	6	X	6	Yes	1.6	-	N	-	X
S6B/6B	6X6	300	6	X	6	Yes	1.6	-	N	-	X
6C	6X30	70	6	-	6	Yes	-	-	S	-	X
7A	6X40	+5	2-4-2	-	7	Yes	-	3	S	-	X
8A,8B	6X40	+5	2-4-2	-	8	Yes	-	-	S	-	X
S2A	6X6	+130	4	-	-	No	-	-	N	X	X
S2B	6X6	+130	4	-	-	No	-	-	N	X	X
S4A	6X6	+160	4	-	-	No	-	-	N	X	X
S4B	6X6	+160	4	-	-	No	-	-	N	X	X
S8A	6X6	+145	4	-	-	No	-	-	N	X	X
S8B	6X6	+145	4	-	-	No	-	-	N	X	X

8 Phase Fully Actuated Fayetteville Signal System

NOTES

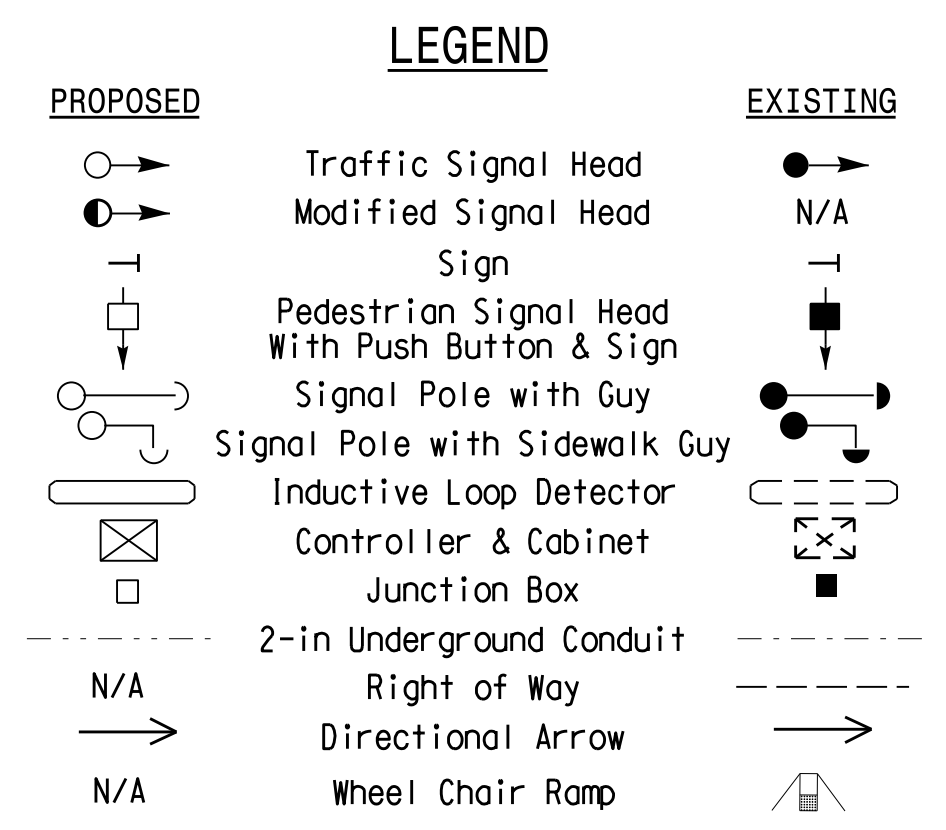
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- 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.
- 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	7	8
Min Green *	7	10	7	7	7	7	10	7
Walk *	0	0	0	0	0	0	0	0
Ped Clear	0	0	0	0	0	0	0	0
Veh. Extension *	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
Max 1 *	20	90	20	45	20	90	20	45
Yellow	3.0	4.4	3.0	3.8	3.0	4.4	3.0	3.8
Red Clear	2.8	1.8	3.2	2.5	3.1	1.8	3.7	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	-	-	-	-	-	-	-	-
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:

SR 1404 (Morganton Road) at McPherson Church Rd

Division 6 Cumberland County Fayetteville

PLAN DATE: February 2016 REVIEWED BY: JPB, PE

PREPARED BY: EM Minshew REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1"=30'

REVISIONS: INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: JASON P. GALLAWAY, ENGINEER, 029904

DocuSign by: Jason P. Gallaway 10/12/2016

SIG. INVENTORY NO. 06-0233

17-001-2016-11-13
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 emminshew