

3 Phase Fully Actuated Fayetteville Signal System

PHASING DIAGRAM

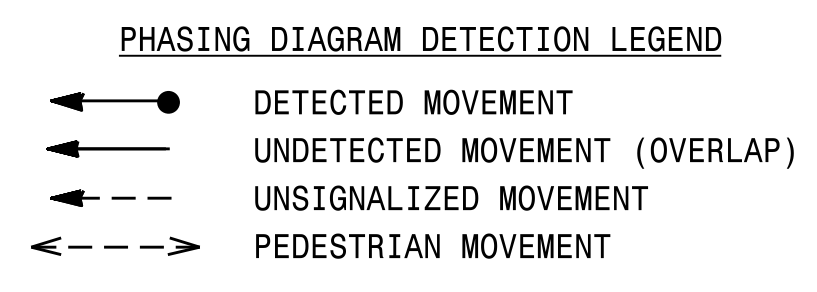
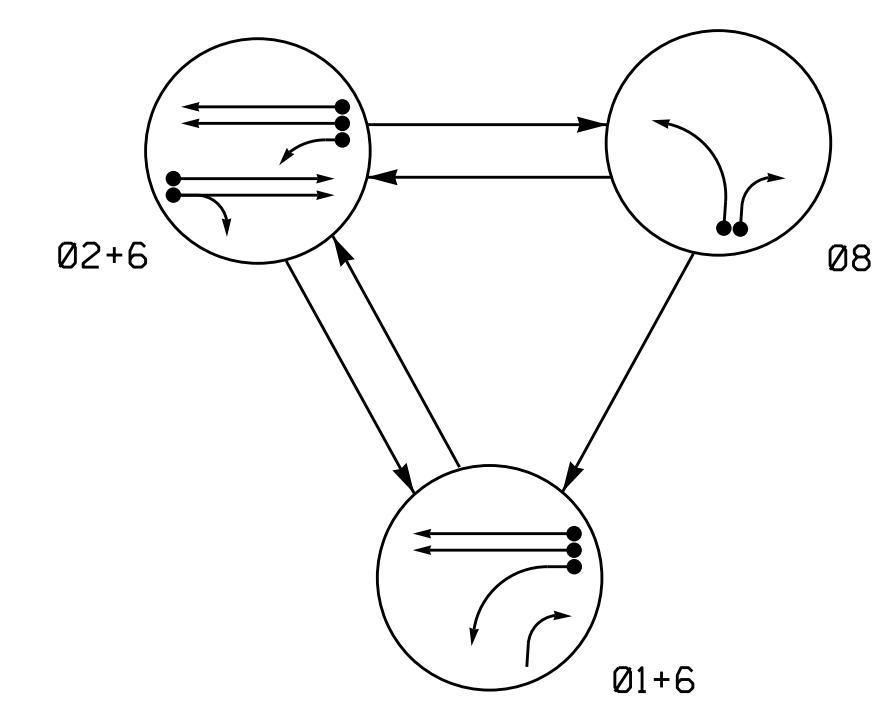


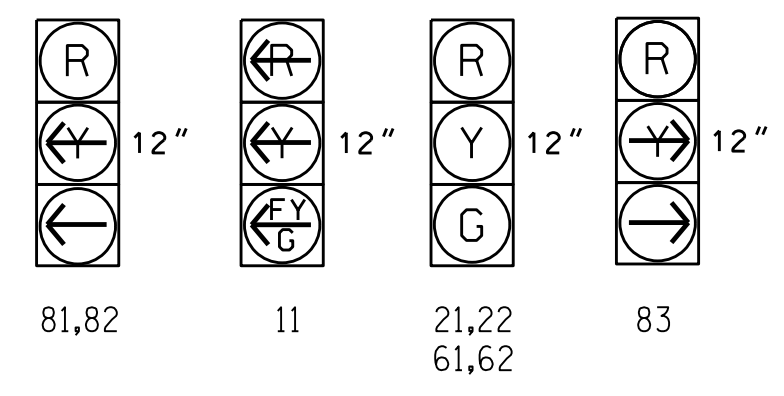
TABLE OF OPERATION

SIGNAL FACE	PHASE			
	01+6	02+6	08	F L
11	←	←	←	←
21,22	R	G	R	Y
61,62	G	G	R	Y
81,82	R	R	←	R
83	←	R	←	R

SIGNAL FACE I.D.

All Heads L.E.D.

⊕ = Bimodal Section



ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	LOOP SYSTEM NEW CARD	
1A	6X40	0	2-4-2	-	1	Yes	-	15	S	-	X
2A,2B	6X6	295	4	-	2	Yes	-	-	N	-	X
6A,6B	6X6	295	4	-	6	Yes	-	-	N	-	X
8A	6X60	+5	2-4-2	-	8	Yes	-	-	S	-	X
8B	6X60	+5	2-4-2	-	8	Yes	-	15	S	-	X
S6A	6X6	Exist	Exist	-	-	No	-	-	N	-	X
S6B	6X6	Exist	Exist	-	-	No	-	-	N	-	X

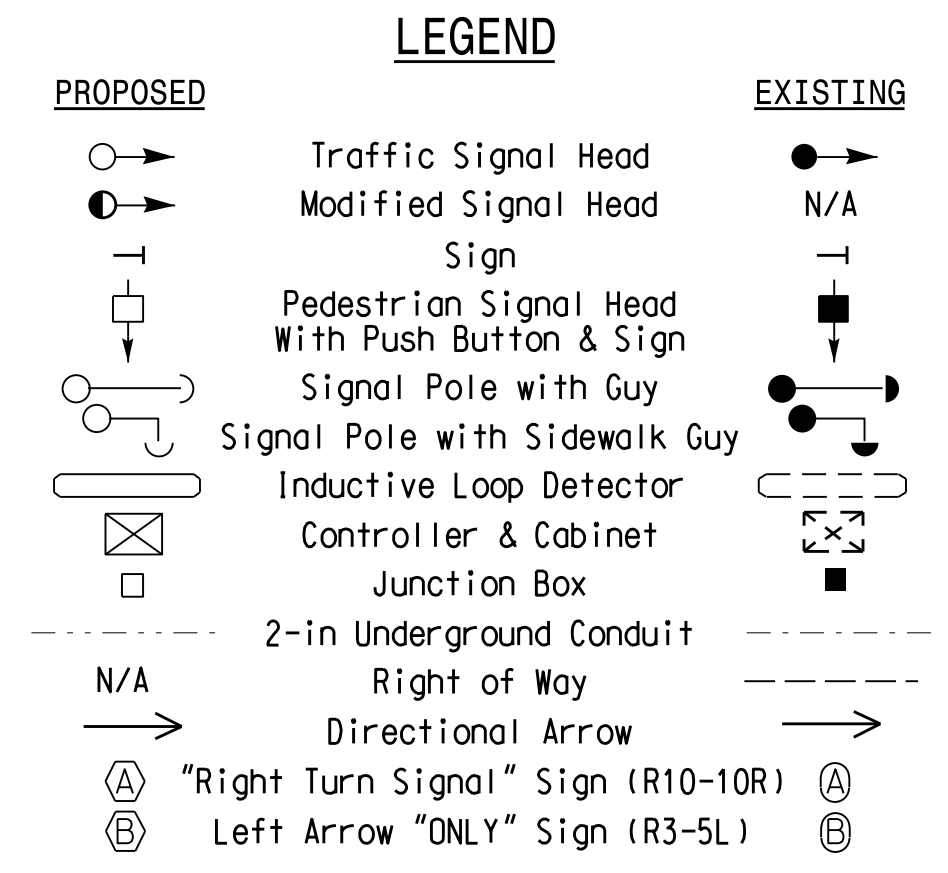
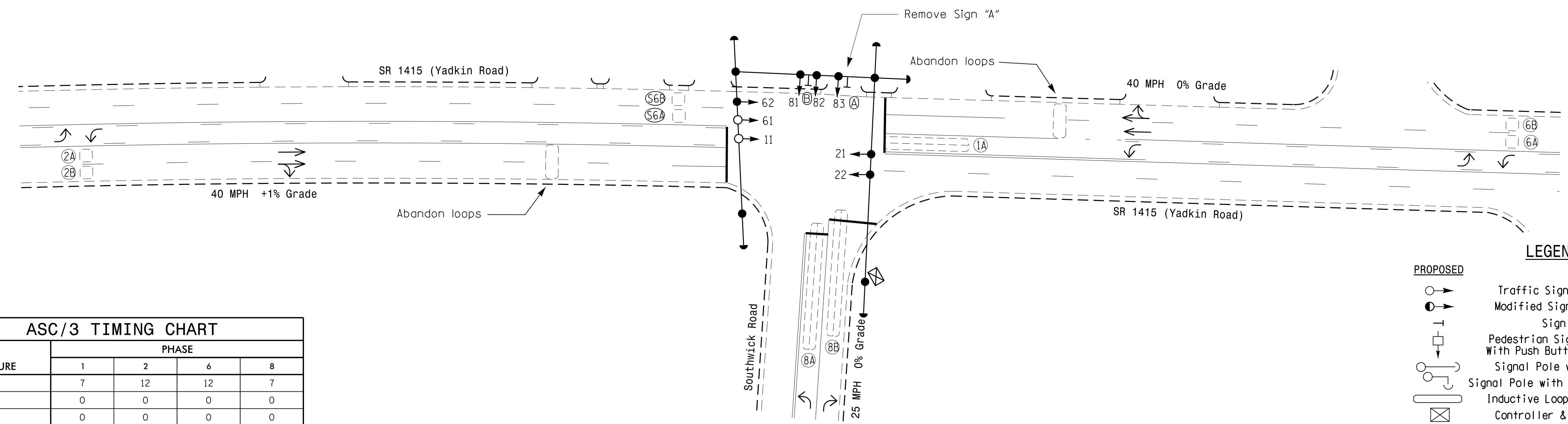
NOTES

- 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 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.
- 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	6	8
Min Green *	7	12	12	7
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	2.0	6.0	6.0	2.0
Max 1 *	20	90	90	15
Yellow	3.0	4.2	4.2	3.0
Red Clear	1.6	1.1	1.1	2.1
Actuations B4 Add *	-	0	0	-
Seconds / Actuation *	-	1.5	1.5	-
Max Initial *	-	34	34	-
Time Before Reduction *	-	15	15	-
Time To Reduce *	-	30	30	-
Minimum Gap	-	3.0	3.0	-
Locking Detector	-	X	X	-
Recall Position	-	VEH. RECALL	VEH. RECALL	-
Dual Entry	-	-	-	-
Simultaneous Gap	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

SR 1415 (Yadkin Road) at Southwick Road

Division 6 Cumberland County Fayetteville

PLAN DATE: April 2016 REVIEWED BY: JPG

PREPARED BY: KGP, Jr. REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE 1"=30'

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JASON P. GALLAWAY 029904

DATE 9/20/2016

SIG. INVENTORY NO. 06-0540

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

20-060-2016-16102
 S:\ITS\ASU\ITS_Signal\Signal_Section\Eastern_Region\04\U-5742_Fayetteville\11e_ASC\3\606-0540\6060540_s1a.dsn_2016mmds.dgn
 kgspeed.in