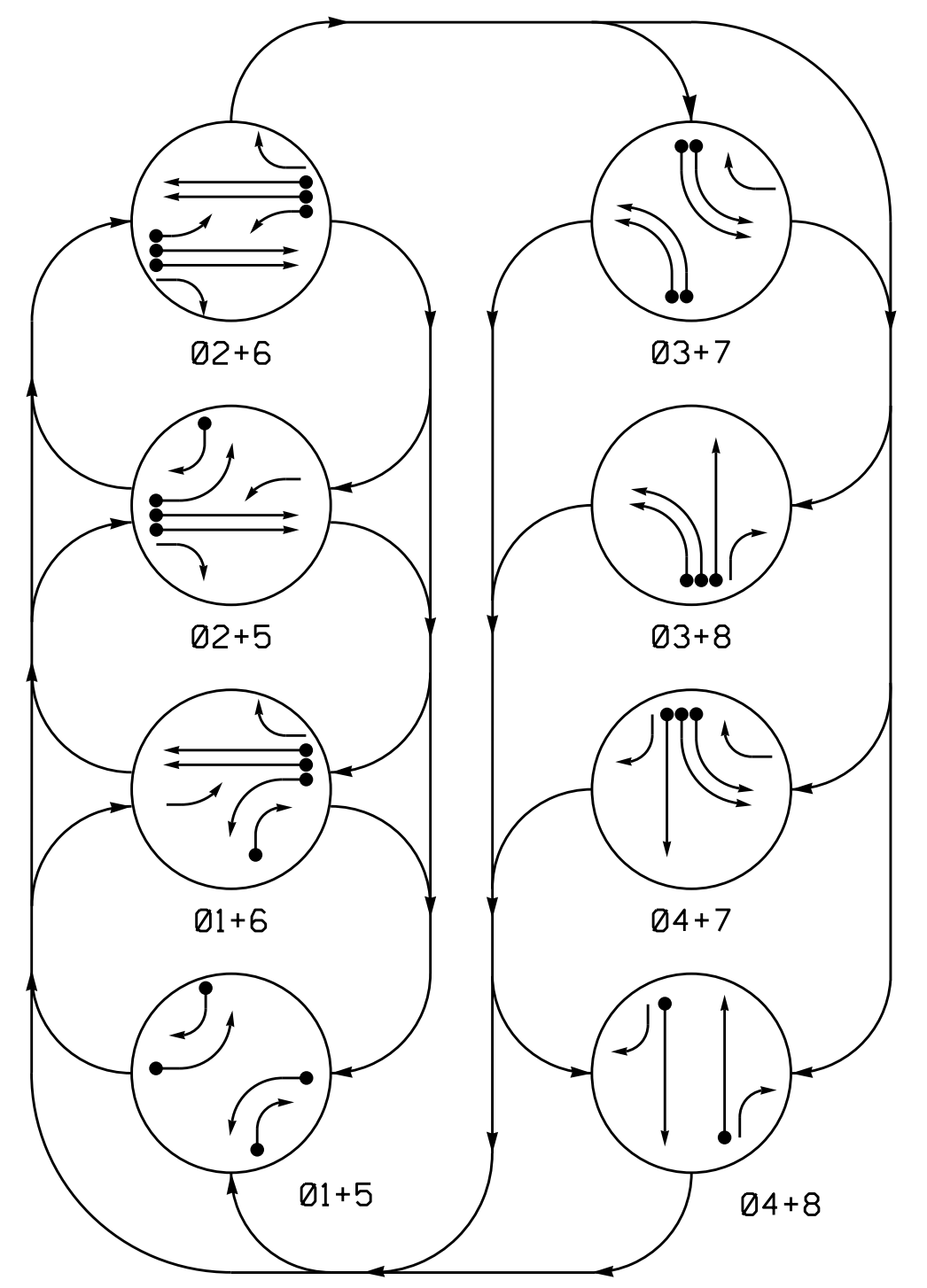


PHASING DIAGRAM



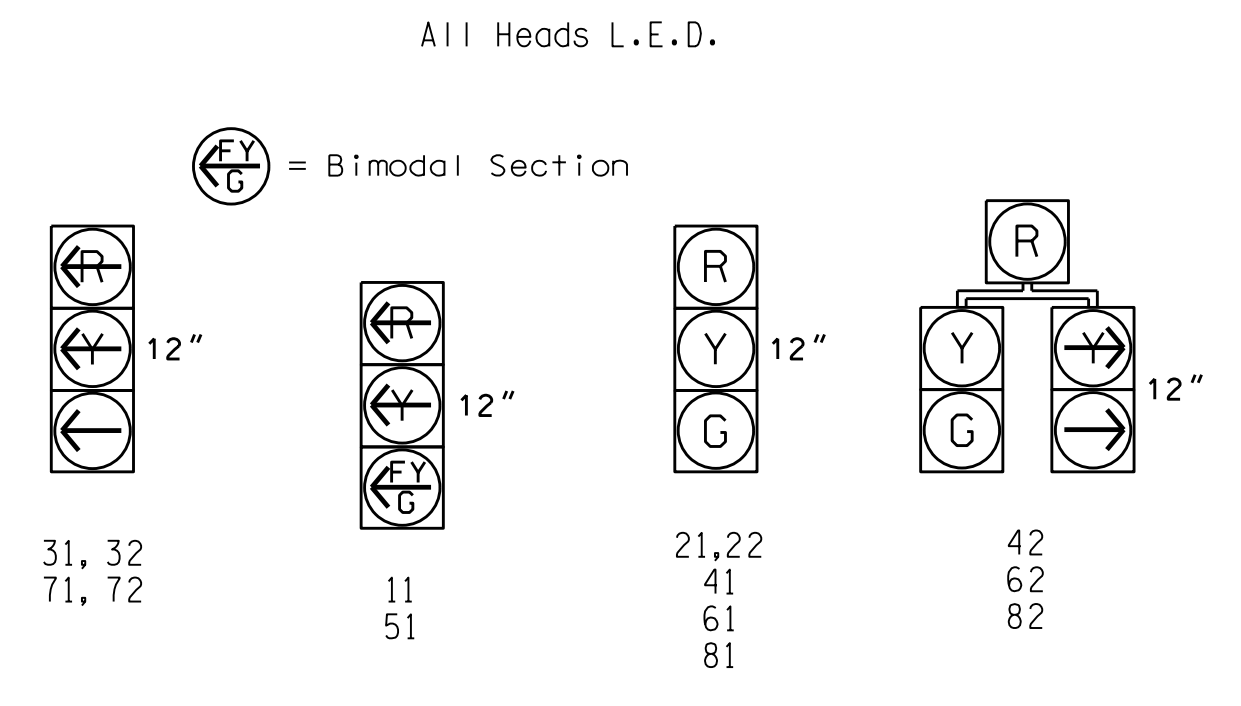
PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←- - - UNSIGNALIZED MOVEMENT
- ←- - - PEDESTRIAN MOVEMENT

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
31, 32	R	R	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	R	G	R	G	R	R	R	Y
62	R	G	R	G	R	R	R	Y
71, 72	R	R	R	R	—	—	R	R
81	R	R	R	R	R	G	R	R
82	R	R	R	R	R	G	R	R

SIGNAL FACE I.D.



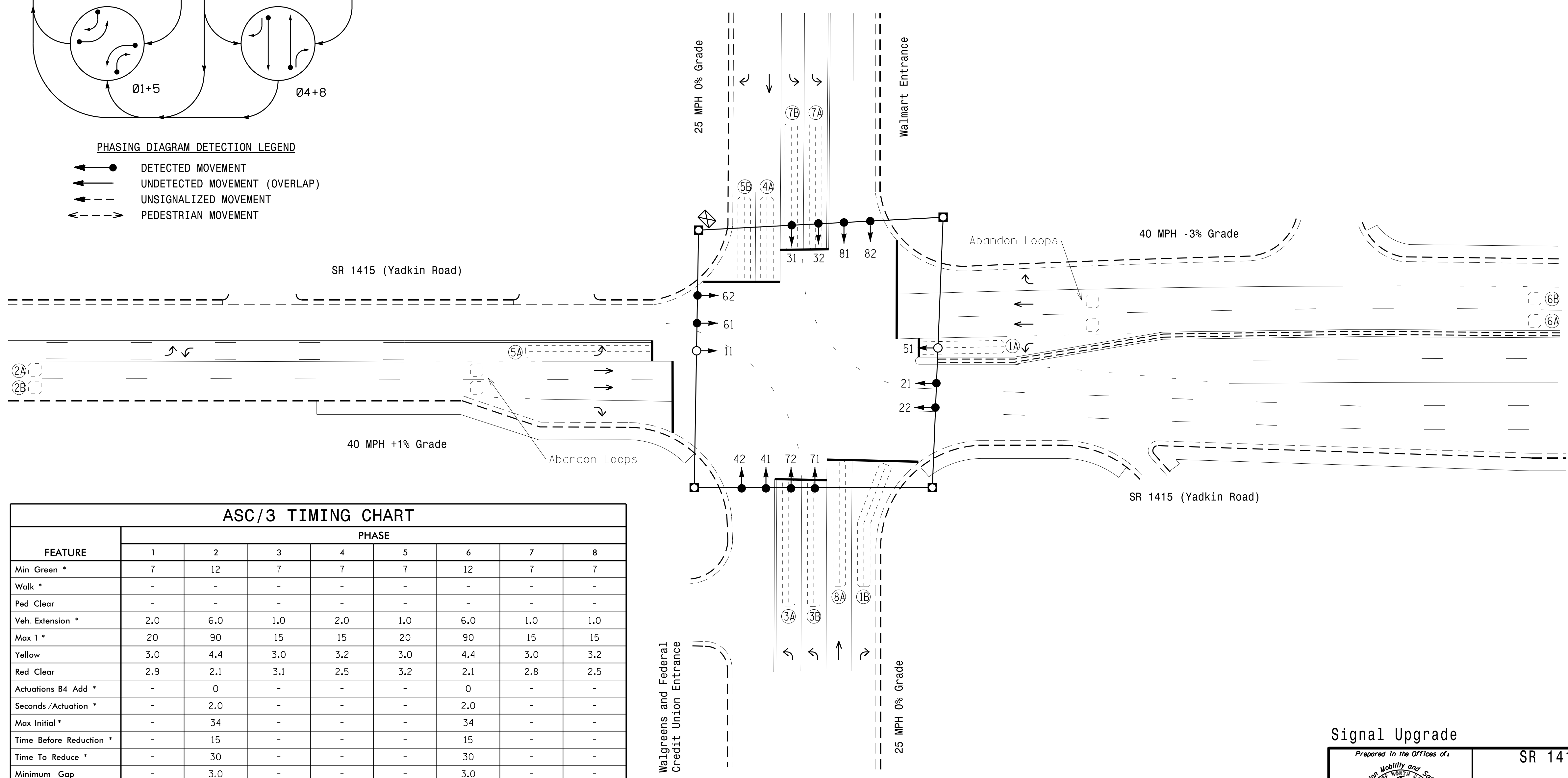
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING				TYPE	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTEND TIME	DELAY TIME			
1A	6X40	0	2-4-2	-	1	Yes	-	15	S	-	X
1B	6X60	0	2-4-2	-	6	Yes	-	3	G	-	X
2A, 2B	6X6	300	4	-	2	Yes	0.9	-	N	-	X
3A	6X60	0	2-4-2	-	3	Yes	-	3	S	-	X
3B	6X60	0	2-4-2	-	3	Yes	-	-	S	-	X
4A	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
5A	6X60	0	2-4-2	-	5	Yes	-	15	S	-	X
5B	6X40	0	2-4-2	-	5	Yes	-	15	S	-	X
6A, 6B	6X6	300	4	-	6	Yes	0.9	-	N	-	X
7A	6X60	0	2-4-2	-	7	Yes	-	3	S	-	X
7B	6X60	0	2-4-2	-	7	Yes	-	-	S	-	X
8A	6X60	0	2-4-2	-	8	Yes	-	-	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.
- 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	12	7	7	7	12	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	1.0	2.0	1.0	6.0	1.0	1.0
Max I *	20	90	15	15	20	90	15	15
Yellow	3.0	4.4	3.0	3.2	3.0	4.4	3.0	3.2
Red Clear	2.9	2.1	3.1	2.5	3.2	2.1	2.8	2.5
Actuations B4 Add *	-	0	-	-	-	0	-	-
Seconds / Actuation *	-	2.0	-	-	-	2.0	-	-
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	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

- | | | | |
|--|---|--|------------------------------|
| | PROPOSED Traffic Signal Head | | EXISTING Traffic Signal Head |
| | PROPOSED Modified Signal Head | | EXISTING N/A |
| | PROPOSED Sign | | EXISTING N/A |
| | PROPOSED Pedestrian Signal Head With Push Button & Sign | | EXISTING N/A |
| | PROPOSED Signal Pole with Guy | | EXISTING |
| | PROPOSED Signal Pole with Sidewalk Guy | | EXISTING |
| | PROPOSED Inductive Loop Detector | | EXISTING |
| | PROPOSED Controller & Cabinet | | EXISTING |
| | PROPOSED Junction Box | | EXISTING |
| | PROPOSED 2-in Underground Conduit | | EXISTING |
| | PROPOSED Right of Way | | EXISTING |
| | PROPOSED Directional Arrow | | EXISTING |

Signal Upgrade

SR 1415 (Yadkin Road) at Walmart/Walgreens and Federal Credit Union Entrances

Division 6 Cumberland County Fayetteville

PLAN DATE: August 2016 REVIEWED BY: JPG

PREPARED BY: KGP, Jr. REVIEWED BY:

SEAL

DATE: 10/14/2016

SIG. INVENTORY NO. 06-1148

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1"=30'

14-007-2016 11:50
 S:\IT\ASU\15\Sig\Signal\Signal Design\Section\Eastern Region\01\U-5742 Fayetteville ASC3\906-1148\061148_s1a.dsn_20160806.dgn
 kgspeed