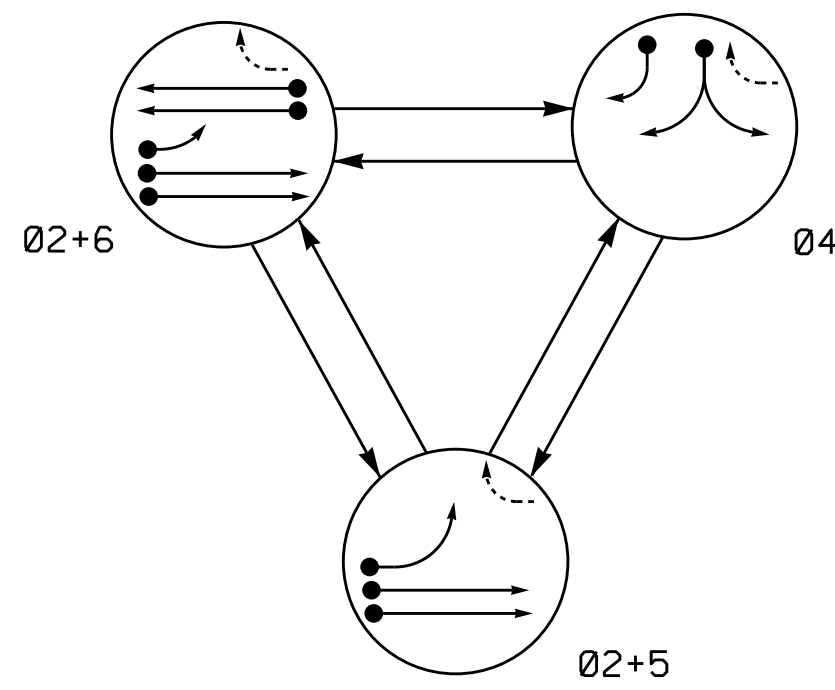


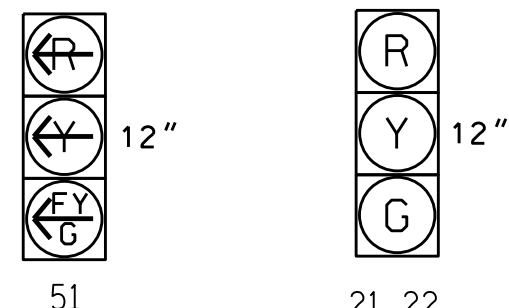
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02+5	02+6	04	FLASH
21,22	G	G	R	Y
41,42	R	R	G	R
51	-	-	-	-
61,62	R	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



PHASING DIAGRAM DETECTION LEGEND

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

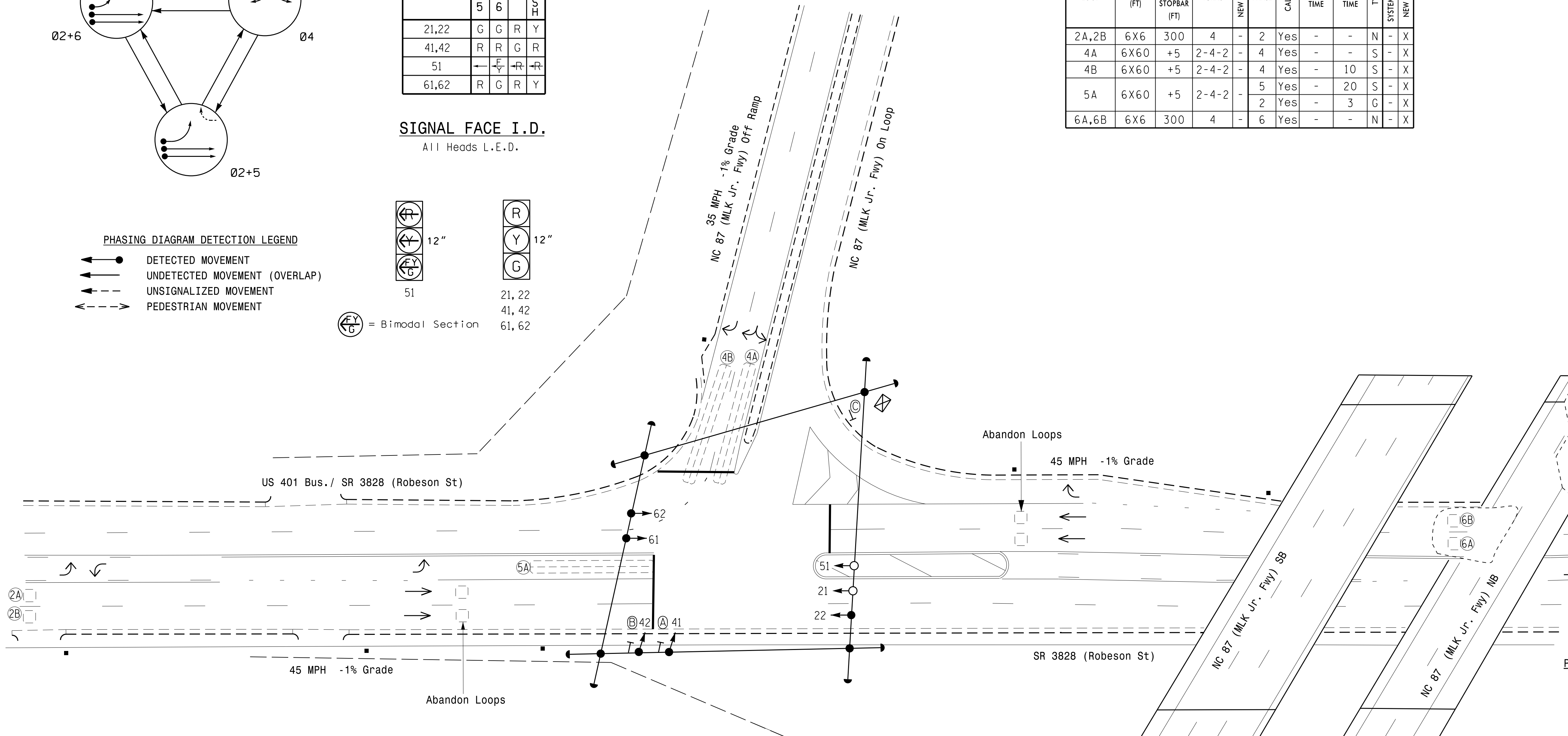
⊕ = Bimodal Section

ASC/3 DETECTOR INSTALLATION CHART											
LOOP	DETECTOR				PROGRAMMING						
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
2A,2B	6X6	300	4	-	2	Yes	-	-	N	-	X
4A	6X60	+5	2-4-2	-	4	Yes	-	-	S	-	X
4B	6X60	+5	2-4-2	-	4	Yes	-	10	S	-	X
5A	6X60	+5	2-4-2	-	5	Yes	-	20	S	-	X
6A,6B	6X6	300	4	-	6	Yes	-	-	N	-	X

3 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 5 may be lagged.
4. Set all detector units to presence mode.
5. 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.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



FEATURE	PHASE			
	2	4	5	6
Min Green *	12	7	7	12
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	6.0	1.0	1.0	6.0
Max 1 *	60	20	15	60
Yellow	4.6	3.0	3.0	4.6
Red Clear	1.3	1.9	2.3	1.3
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	SOFT RECALL	-	-	SOFT 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.

LEGEND

- | PROPOSED | EXISTING |
|------------------------------------|----------|
| ○ → Traffic Signal Head | ● → N/A |
| ○ → Modified Signal Head | ○ → N/A |
| ○ → Sign | ○ → N/A |
| ○ → Pedestrian Signal Head | ○ → N/A |
| ○ → With Push Button & Sign | ○ → N/A |
| ○ → Signal Pole with Guy | ○ → N/A |
| ○ → Signal Pole with Sidewalk Guy | ○ → N/A |
| ○ → Inductive Loop Detector | ○ → N/A |
| ○ → Controller & Cabinet | ○ → N/A |
| ○ → Junction Box | ○ → N/A |
| ○ → 2-in Underground Conduit | ○ → N/A |
| ○ → Right of Way | ○ → N/A |
| ○ → Directional Arrow | ○ → N/A |
| Ⓐ Two Way Turn Arrows Sign (R3-16) | Ⓐ |
| Ⓑ Right Arrow "ONLY" Sign (R3-5R) | Ⓑ |
| Ⓒ "YIELD" Sign (R1-2) | Ⓒ |

Signal Upgrade

Prepared in the Offices of:

US 401 Bus./SR 3828 (Robeson St) at NC 87 (MLK Jr. Fwy) Off Ramp/On Loop

Division 6 Cumberland County Fayetteville

PLAN DATE: July 2016 REVIEWED BY: JPG, PE

PREPARED BY: EM Minshew REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 0 30 1"=30'

REVISIONS: INIT. DATE

DocuSigned by: Jason P. Gallaway 8/23/2016

SEAL: JASON P. GALLAWAY, PROFESSIONAL ENGINEER, No. 029904

SIG. INVENTORY NO. 06-0544

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

23-AUG-2016 16:50
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 emminshew