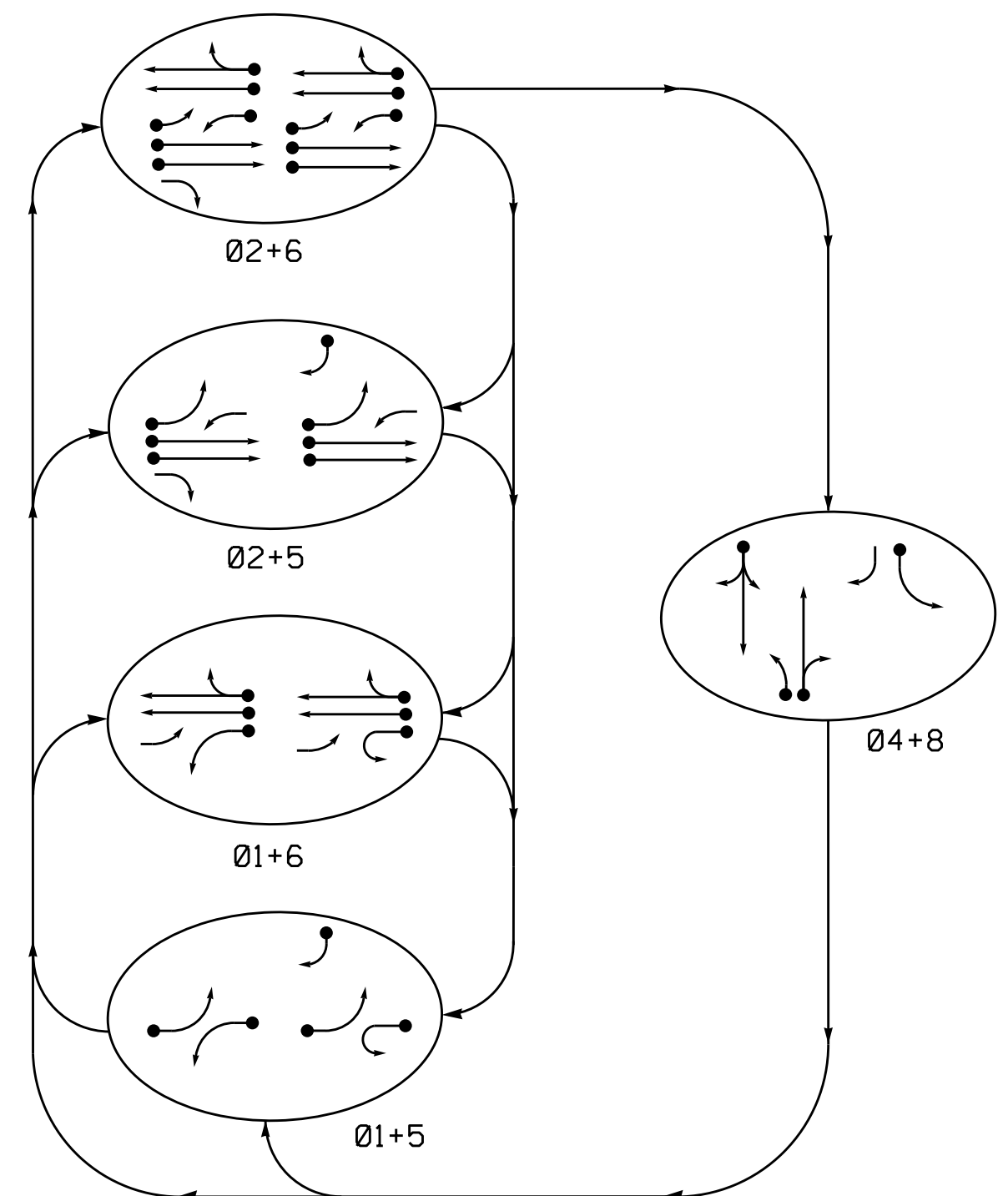


PHASING DIAGRAM

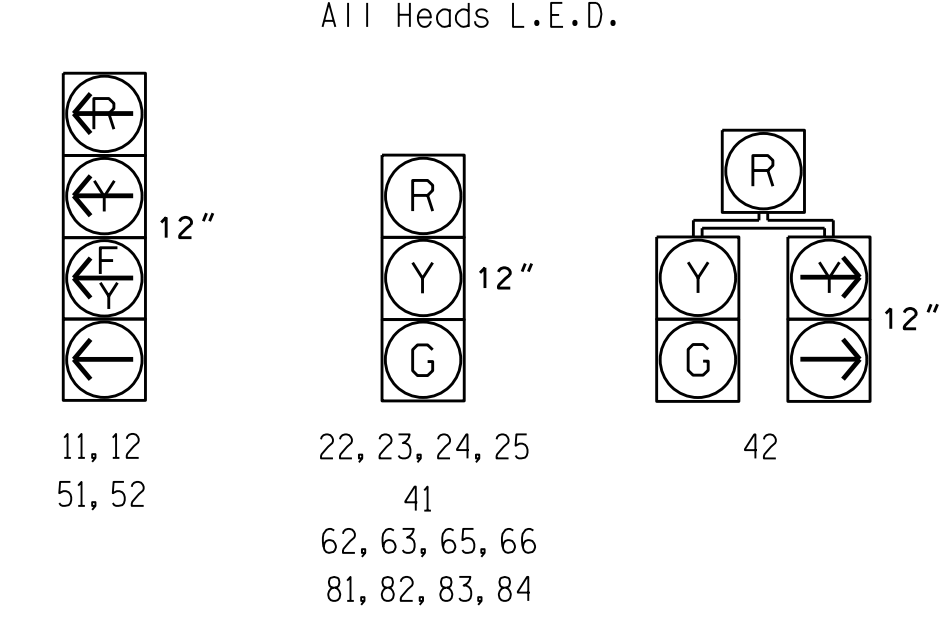


PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- ⚡ UNSIGNALIZED MOVEMENT
- ⚡ PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE				
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	FLASH
11,12	←	←	←	←	←
22,23,24,25	R	R	G	G	R
41	R	R	R	G	R
42	R	R	R	G	R
51,52	←	←	←	←	←
62,63,65,66	R	G	R	G	R
81,82,83,84	R	R	R	G	R

SIGNAL FACE I.D.

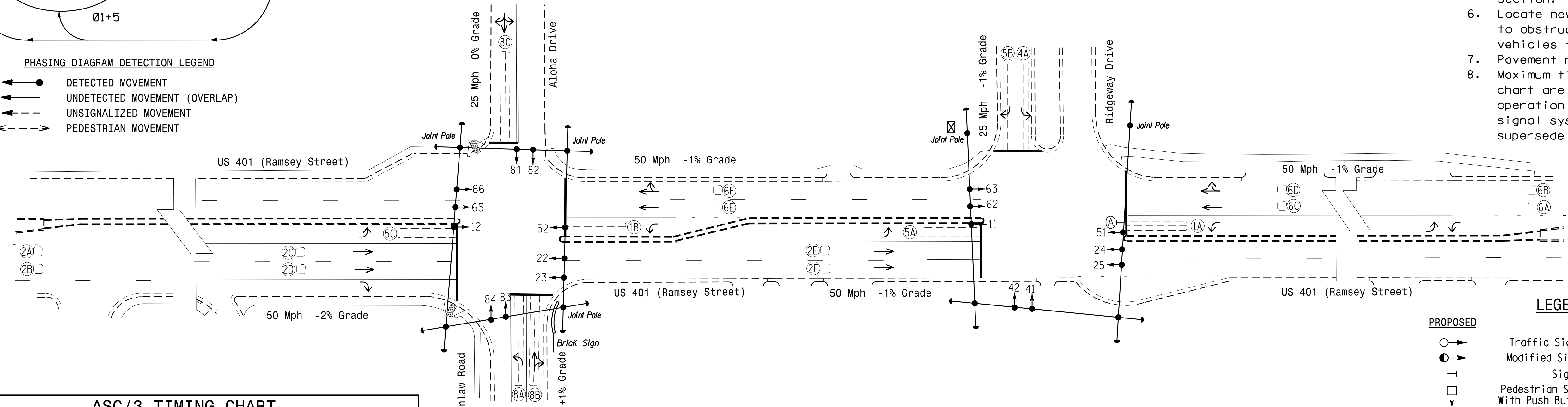


ASC/3 DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	LOOP SYSTEM NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	15	S	- X
					6	Yes	-	-	S	- X
1B	6X40	0	2-4-2	-	1	Yes	-	10	S	- X
					6	Yes	-	-	S	- X
2A,2B	6X6	355	5	-	2	Yes	1.9	-	S	- X
2C,2D	6X6	100	5	-	2	Yes	3.3	-	S	- X
2E,2F	6X6	100	4	-	2	Yes	-	-	S	- X
4A	6X60	0	2-4-2	-	4	Yes	-	-	S	- X
5A	6X40	0	2-4-2	-	5	Yes	-	10	S	- X
					2	Yes	-	-	S	- X
5B	6X60	0	2-4-2	-	5	Yes	-	15	S	- X
5C	6X40	0	2-4-2	-	5	Yes	-	15	S	- X
					2	Yes	-	-	S	- X
6A,6B	6X6	355	5	-	6	Yes	1.9	-	S	- X
6C,6D	6X6	100	4	-	6	Yes	3.7	-	S	- X
6E,6F	6X6	100	4	-	6	Yes	-	-	S	- X
8A	6X60	0	2-4-2	-	8	Yes	-	3	S	- X
8B	6X60	0	2-4-2	-	8	Yes	-	15	S	- X
8C	6X60	0	2-4-2	-	8	Yes	-	10	S	- X

5 Phase Fully Actuated Fayetteville Signal System

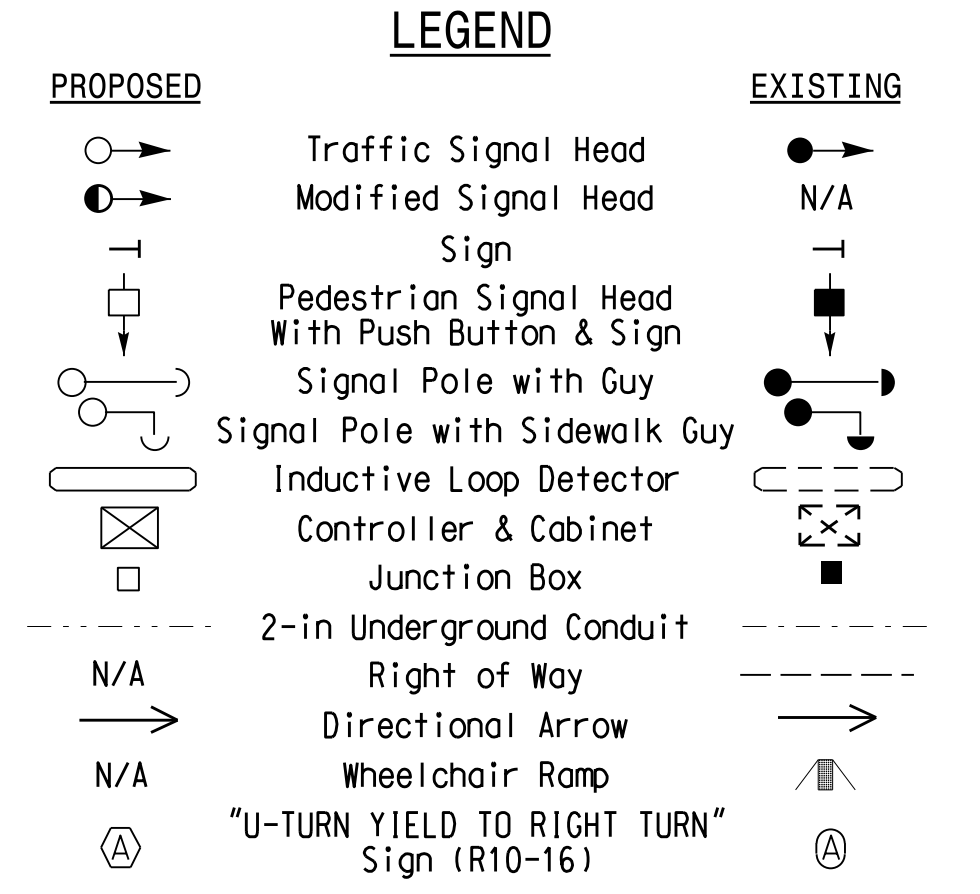
NOTES

- 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.
- 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	4	5	6	8
Min Green *	7	14	7	7	14	7
Walk *	0	0	0	0	0	0
Ped Clear	0	0	0	0	0	0
Veh. Extension *	2.0	2.0	1.0	2.0	2.0	1.0
Max I *	15	60	30	15	60	30
Yellow	3.0	5.1	3.2	3.0	5.1	3.2
Red Clear	2.8	1.3	3.2	2.4	1.3	3.2
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
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	-	-	X	-	-	X
Simultaneous Gap	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

US 401 (Ramsey Street) at Kinlaw Road / Aloha Drive and Ridgeway Drive

Division 6 Cumberland County Fayetteville

PLAN DATE: December 2015 REVIEWED BY: JPG

PREPARED BY: Jeff Spence REVIEWED BY:

SEAL

6/14/2016

SCALE 0 40

1"=40'

REVISIONS

NO.	DATE	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 06-1139

14-000-2015-11-197
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