PROJECT REFERENCE NO.	SHEET NO.
U-5742	Sig. 122.0

3 Phase
Fully Actuated
Fayetteville Signal System

PHASING DIAGRAM

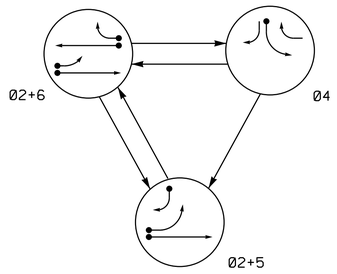


TABLE OF OPERATION				
SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø4	PHASE FLASH
21,22	G	G	R	Y
41	R	R	G	R
42	R/←	R	G	R
51	←	~~F Y~~	~~R~~	~~Y~~
61	R	G	R	Y
62	R	G	R/←	Y

ASC/3 DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
2A	6X18.5	70	3	-	2	Yes	-	-	S	-	X
4A	6X60	+5	2-4-2	-	4	Yes	-	3	S	-	X
5A	6X60	+5	2-4-2	-	5	Yes	-	10	S	-	X
5B	6X60	+5	2-4-2	-	5	Yes	-	10	S	-	X
6A	6X20	200	2	-	6✻✻	Yes	-	3	S	-	X
6B	6X12	70	3	-	6	Yes	-	-	S	-	X

✻✻ See Note 8

NOTES

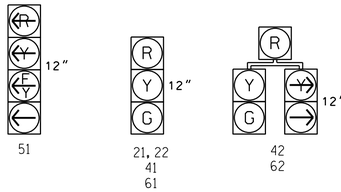
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. Set all detector units to presence 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. Flash beacons 63 and 64 at the end of phase 6 green. Also flash beacons during phase 6 after 3 seconds of constant actuation of Loop 6A. Once activated during phase 6, deactivate beacons after a 2 second gap.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.



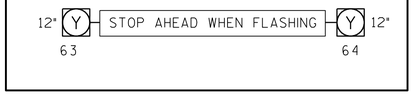
LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
▯↓	Pedestrian Signal Head With Push Button & Sign	■↓
○→	Signal Pole with Guy	●→
○↓	Signal Pole with Sidewalk Guy	●↓
▭	Inductive Loop Detector	- - -
⊠	Controller & Cabinet	⛶
□	Junction Box	■
·-·-·-·	2-in Underground Conduit	·-·-·-·
N/A	Right of Way	- - - - -
→	Directional Arrow	→
Ⓐ	Signal Ahead Sign (W3-3)	Ⓐ
Ⓑ	"STOP AHEAD WHEN FLASHING w/Flashing Beacon (See Figure 1)	Ⓑ

WARNING BEACON TABLE OF OPERATION		
SIGNAL FACE	INTERVAL 1	INTERVAL 2
63, 64	ON	OFF

See Note 8

FIGURE 1: Sign Ⓑ w/ Warning Beacons



ASC/3 TIMING CHART				
FEATURE	PHASE 2	PHASE 4	PHASE 5	PHASE 6
Min Green *	10	7	7	10
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	3.0	2.0	3.0	3.0
Max 1 *	35	30	20	35
Yellow	4.2	3.0	3.0	4.2
Red Clear	1.5	2.1	1.2	1.5
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

* 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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

SR 1615 (Rosehill Road)
at
SR 1614 (Shaw Mill Road)

Division 6 Cumberland County N. of Fayetteville

PLAN DATE: June 2016 | REVIEWED BY: JPG
PREPARED BY: KGP, Jr. | REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

DocuSigned by: Jason P. Galloway 9/29/2016
F700EA7048184D DATE

SIG. INVENTORY NO. 06-0451

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