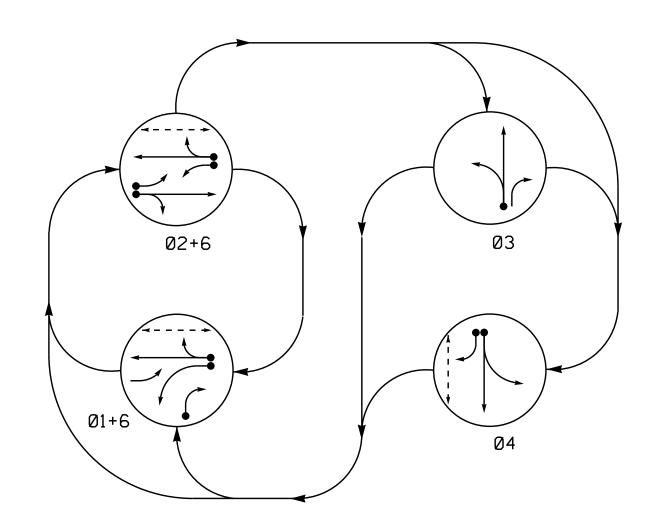
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DETECTED MOVEMENT

←−−> PEDESTRIAN MOVEMENT

TABLE OF OPERATION							
	PHASE						
SIGNAL FACE	01+6	◎ ~+6	Ø 3	Ø 4	上しなのエ		
11	\	누	₹	- R	+		
21	ı-∳≻	4	-R	-R	*		
22,23	R	G	R	R	Υ		
31	R	R	إ ك	R	R		
32	$\mathbb{R}/$	R	G	R	R		
41	R	R	R	<mark>G</mark>	R		
42	R	R	R	G	R		
61,62	G	G	R	R	Υ		
P41,P42	DW	DW	DW	W	DRK		
P61,P62	W	W	DW	DW	DRK		

SIGNAL FACE I.D. All Heads L.E.D. R R Y 12" Y G 21 12" G 22,23 42 61,62 41 11 SIGNAL FACE I.D. All Heads L.E.D. R R R Y 12" Y 12" P41,P42 P61,P62

	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
1 A	6 7 4 0	X40 +5 2-4-2 -	1	Yes	ı	15	S	-	Χ		
1 A			6	Yes	1	-	S	-	Χ		
1B	6X40	+13	2-4-2	-	1	Yes	-	15	S	-	Χ
2A	6X6	70	4	-	2	Yes	-	_	S	-	Χ
2B	6X60	0	2-4-2	-	2	Yes	-	-	S	-	Χ
3A	6X40	+6	2-4-2	-	3	Yes	-	3	S	-	Χ
4A	6X60	+3	2-4-2	_	4	Yes	-	3	S	-	Χ
4B	6X40	+3	2-4-2	_	4	Yes	-	15	S	_	Χ
6A	6X6	70	4	_	6	Yes	-	-	S	-	Χ
S2A	6X6	+107	4	_	_	No	-	-	Ν	Χ	Χ

W DRK DW DRK	S2A	6X6	+107	4		- No	-	-	۷ X
MC 59 (Main Street) P61 P62 P42 31 32 62 61 11 22 23 25 Mph +1% Grade			25 Mph (1A)		Grade				

4 Phase Fully Actuated Fayetteville Signal System

<u>NOTES</u>

PROJECT REFERENCE NO.

U-5742

Sig.29.0

- 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.
- 3. Phase 1 may be lagged.
- 4. The order of phase 3 and phase 4 may be reversed.
- 5. Set all detector units to presence mode.
- 6. 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.
- 7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 10. Pavement markings are existing.
- 11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

	<u>====:===</u>	
<u>PROPOSED</u>		<u>EXISTING</u>
\bigcirc	Traffic Signal Head	
O	Modified Signal Head	N/A
\dashv	Sign	\dashv
‡	Pedestrian Signal Head With Push Button & Sign	•
<u> </u>	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	,
	Inductive Loop Detector	$\subseteq = = \supset$
	Controller & Cabinet	×
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
\bigcirc	Type II Signal Pedestal	•
N/A	Wheelchair Ramp	

	ASC/3	TIMIN	G CHAR	Т	
			PHASE		
FEATURE	1	2	3	4	6
Min Green *	7	10	7	7	10
Walk *	0	0	0	7	7
Ped Clear	0	0	0	12	16
Veh. Extension *	1.0	3.0	1.0	1.0	3.0
Max 1 *	20	50	20	25	50
Yellow	3.0	3.2	3.1	3.1	3.2
Red Clear	1.8	2.5	2.3	2.2	2.5
Actuations B4 Add *	-	-	-	-	-
Seconds /Actuation *	_	-	-	-	-
Max Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Locking Detector	-	Х	-	-	Х
Recall Position	-	VEH. RECALL	-	-	VEH. RECALI
Dual Entry	_	-	-	-	_

* 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

Prepared In the Offices of:

NC 59 (Hope Mills Road)

at

Lakeview Drive / Trade Street

Division 6 Cumberland County Hope Mills

PLAN DATE: June 2016 REVIEWED BY: JPG

OCCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Division 6 Cumberland County Hope Mills

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