PHASING DIAGRAM

Ø2+6   Ø4+8

PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+6	Ø4+8	FLASH
21, 22	G	R	Y
41, 42	R	G	R
61, 62	G	R	Y
81, 82	R	G	R
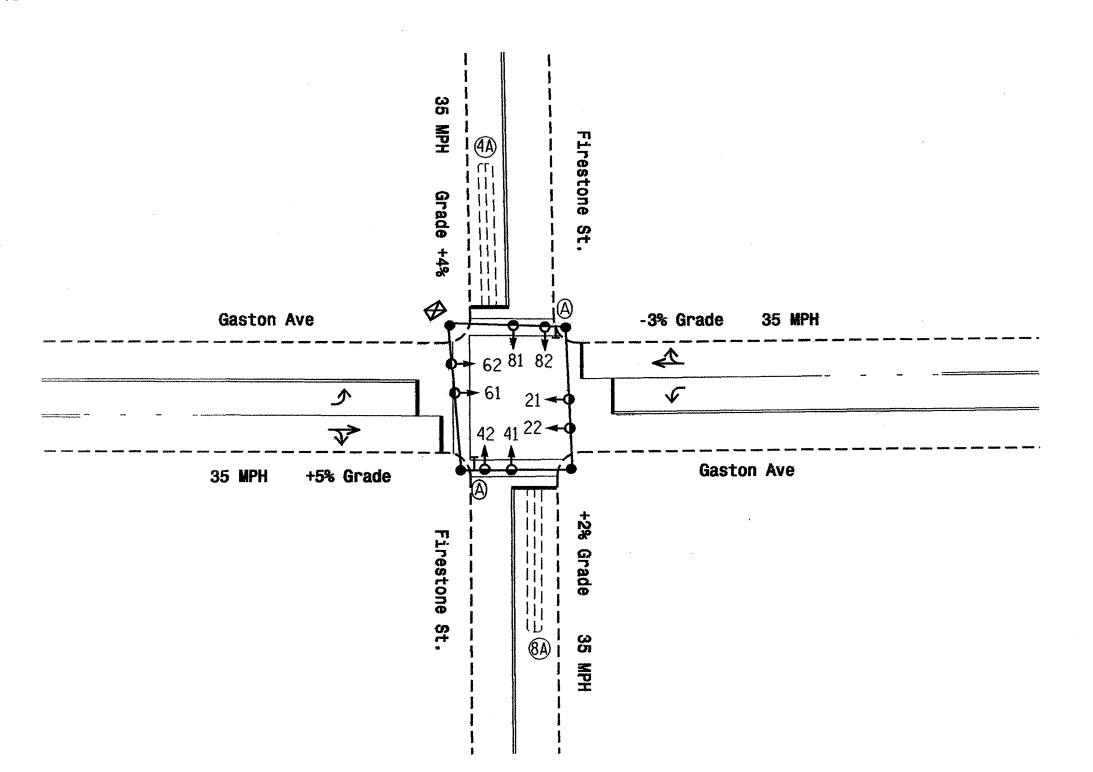
SIGNAL FACE I.D.

◯ Denotes L.E.D.

| R |
| Y | 8"
| G |

21, 22
41, 42
61, 62
81, 82

2 Phase
Semi-Actuated
(Gastonia City System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Pavement markings are existing.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. City system data: Master Controller Asset #: 0060.

Firestone St.
35 MPH   Grade +4%
Gaston Ave
-3% Grade   35 MPH
Gaston Ave
35 MPH   +5% Grade
Firestone St.
+2% Grade   35 MPH
62 81 82
61 21
42 41 22

2070L TIMING CHART

FEATURE	PHASE 2	4	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	0.0	2.0	0.0	2.0
Max Green 1 *	35	20	35	20
Yellow Clearance	4.0	4.0	4.0	4.0
Red Clearance	1.6	1.7	1.6	1.7
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MAX RECALL	-	MAX RECALL	-
Vehicle Call Memory	-	-	-	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	ON	ON	ON	ON

* 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.

2070L LOOP & DETECTOR INSTALLATION

	INDUCTIVE LOOPS				DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
4A	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	-	10	Y
8A	EXISTING	EXISTING	EXISTING	-	8	Y	Y	-	-	-	10	Y

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	⟶
→	Pavement Marking Arrow	→
Ⓐ	"NO TURN ON RED" Sign (R10-11)	Ⓐ

Signal Upgrade

REVISIONS	INIT.	DATE

SCALE
0   40
1" = 40'

N