PHASING DIAGRAM

Ø2+6   Ø4+8

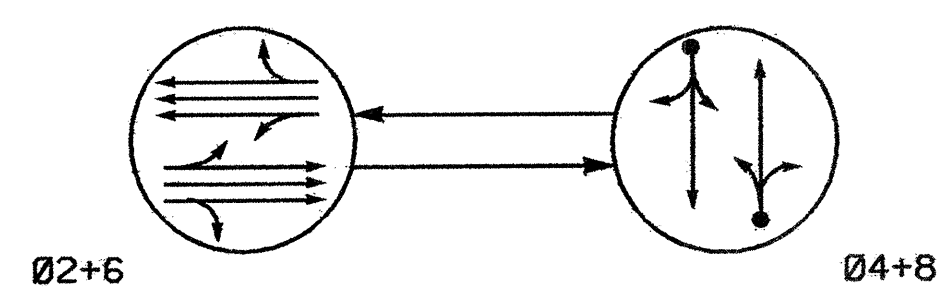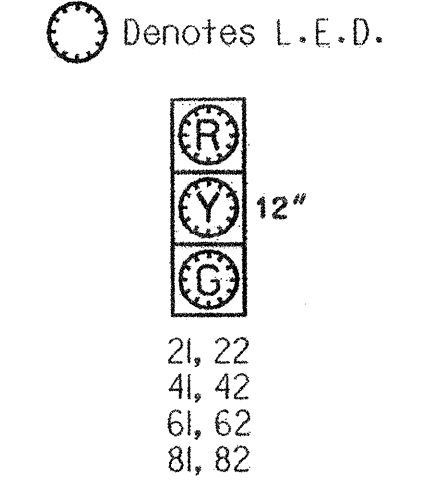### PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+6	PHASE 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 12"
G

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

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	–	–	–	5	Y
8A	EXISTING	EXISTING	EXISTING	–	8	Y	Y	–	–	–	5	Y

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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
3. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
4. Pavement markings are existing.
5. Run all lead-in cable overhead on existing utility poles where possible.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
7. Set all detector units to presence mode.
8. City System data: Controller asset #0044

US 29-74 (E. Franklin Blvd.)

35 mph -3 % Grade

S. Avon St.

35 mph -1 % Grade

4A

81 82
62
61

21
42 41 22

35 mph 0 % Grade

US 29-74 (E. Franklin Blvd.)

S. Avon St.

8A

35 mph 5 % Grade
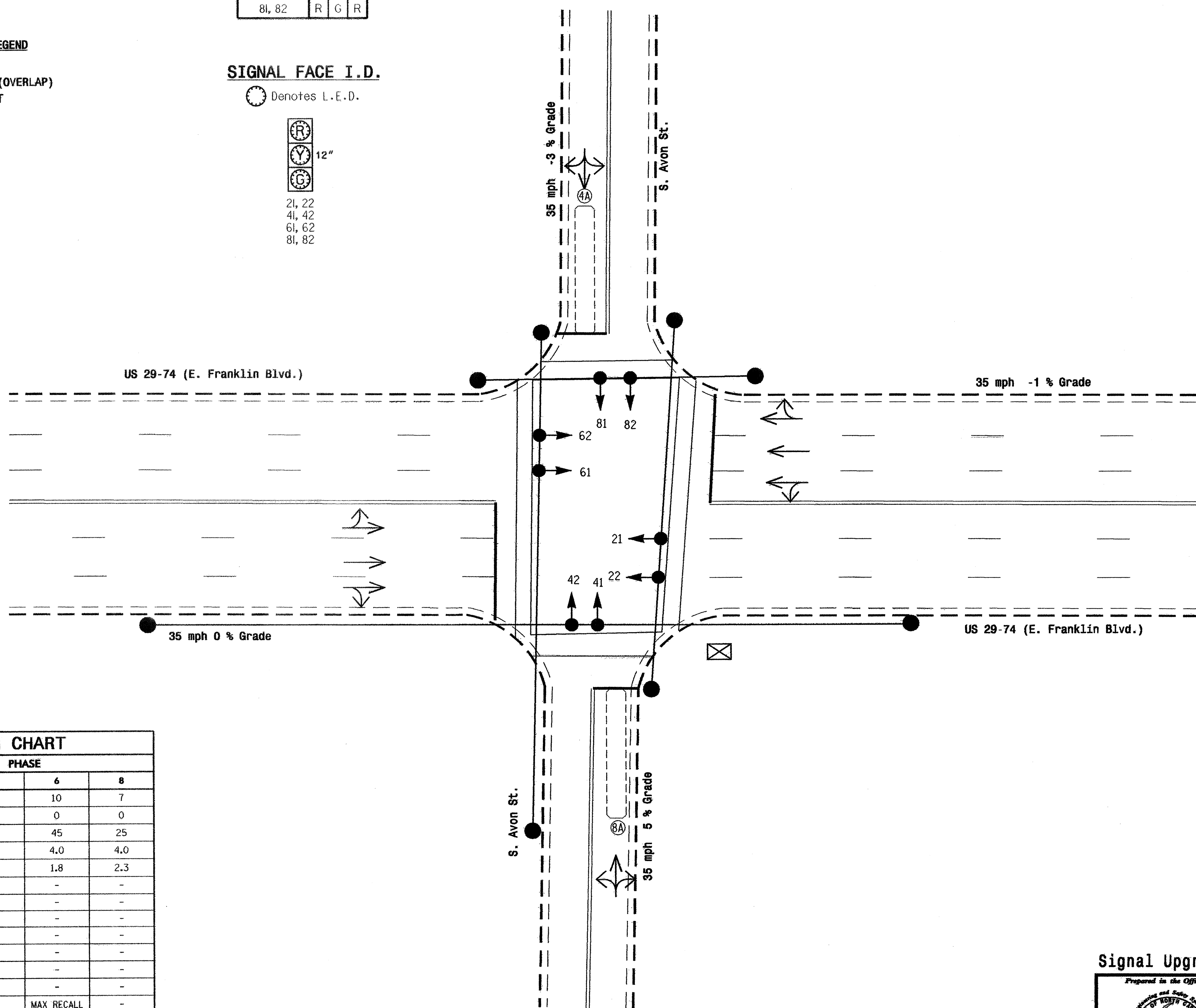
LEGEND

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	
	Right of Way	
N/A		N/A
→	Directional Arrow	→
→	Pavement Marking Arrow	→

2070L TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1 *	10	7	10	7
Extension 1 *	0	0	0	0
Max Green 1 *	45	25	45	25
Yellow Clearance	4.0	4.0	4.0	4.0
Red Clearance	1.8	2.3	1.8	2.3
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.

Signal Upgrade

US 29-74
(E. Franklin Boulevard)
at
S. Avon Street

Division 12   Gaston County   Gastonia

PLAN DATE: January 05	REVIEWED BY: D.Y. Ishak	
PREPARED BY: K. Maldonado	REVIEWED BY:	

REVISIONS | INIT. | DATE

SCALE
0   20
1"=20'

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
2007
WAYNE E. MULLINAX

SIGNATURE   DATE

SIG. INVENTORY NO. 12-0044