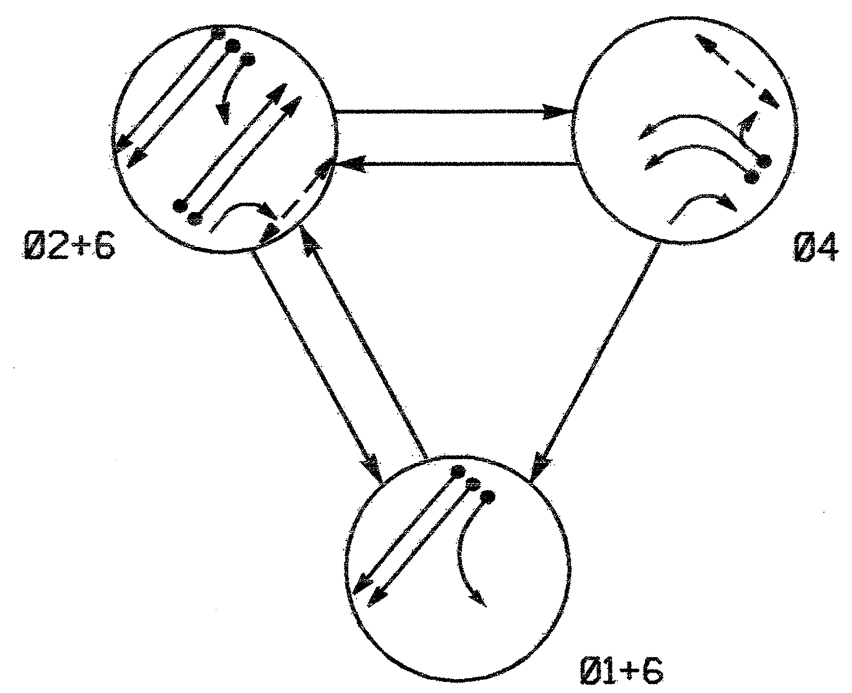
PROJECT REFERENCE NO.	SHEET NO.
U-4736	SIG.127

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

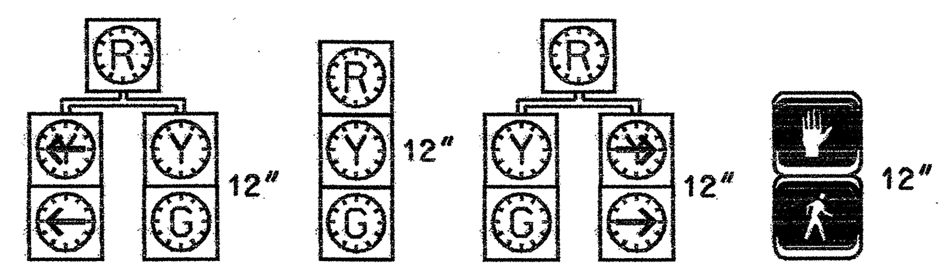
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+6	Ø2+6	Ø4	FLASH
21	R	G	R	Y
22	R	G	R / →	Y
41,42	R	R	G	R
61	← / G	G	R	Y
62	G	G	R	Y
P21,P22	DW	W	DW	DRK
P41,P42	DW	DW	W	DRK

SIGNAL FACE I.D.

Denotes L.E.D.



61 | 21, 41,42, 62 | 22 | P21,P22, P41,P42

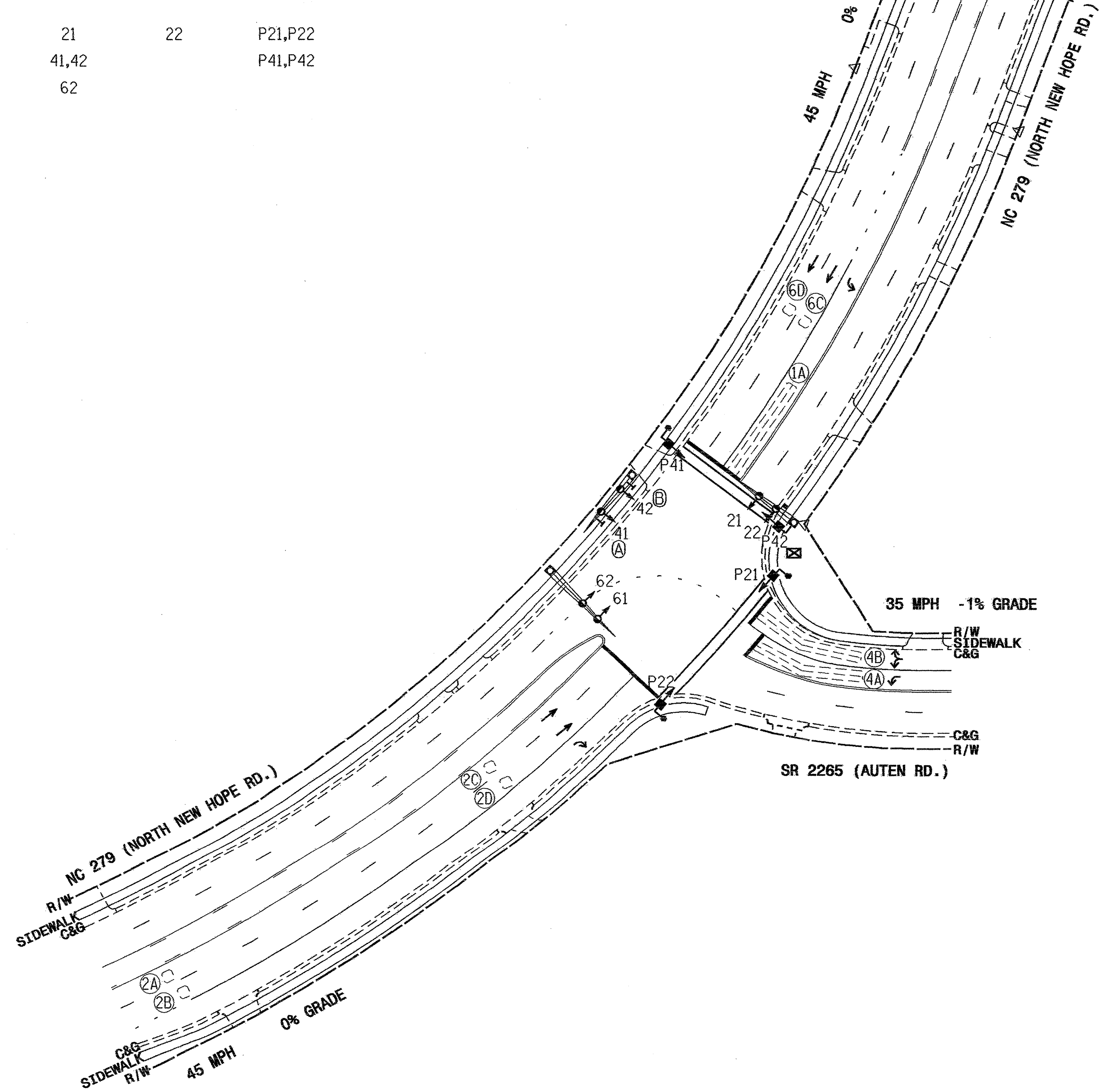
2070L LOOP & DETECTOR INSTALLATION

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
1A	6x60	Existing	Existing	-	1	Y	Y	-	-	-	15	Y
					6	Y	Y	-	-	-	-	Y
2A, 2B	6x6	Existing	Existing	-	2	Y	Y	-	-	1.8	-	Y
2C, 2D	6x6	Existing	Existing	-	2	Y	Y	-	-	-	-	Y
4A	6x60	Existing	Existing	-	4	Y	Y	-	-	-	3	Y
4B	6x60	Existing	Existing	-	4	Y	Y	-	-	-	10	Y
6A, 6B	6x6	Existing	Existing	-	6	Y	Y	-	-	1.8	-	Y
6C, 6D	6x6	Existing	Existing	-	6	Y	Y	-	-	-	-	Y

3 Phase
Fully 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. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. City system data: Controller Asset #0173.



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Metal Pole with Mastarm	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Pull Box	
	Underground Conduit	
	Right of Way with Marker	
	Directional Arrow	
	Pavement Marking Arrow	
	Pedestrian Signal Pedestal	
Ⓐ	Left Arrow "ONLY" Sign (R3-5L)	Ⓐ
Ⓑ	Dual Turn Arrows Sign (R3-18)	Ⓑ

2070L TIMING CHART

FEATURE	PHASE 1	2	4	6
Min Green 1 *	7	12	7	12
Extension 1 *	1.0	2.0	1.0	2.0
Max Green 1 *	15	60	30	60
Yellow Clearance	4.7	4.7	4.0	4.7
Red Clearance	2.0	2.0	3.0	2.0
Walk 1 *	-	4.0	4.0	-
Don't Walk 1	-	17	14	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	-	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	YELLOW
Dual Entry	-	-	-	-
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

Prepared in the Offices of: Traffic Engineering and Safety Systems Branch, Signals and Geometrics Section, 122 N. McDowell St., Raleigh, NC 27603

NC 279 (New Hope Road) at SR 2265 (Auten Road)

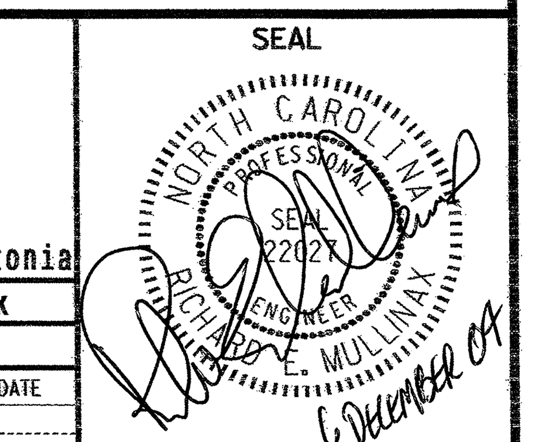
Division 12 | Gaston County | Gastonia

PLAN DATE:	November 2004	REVIEWED BY:	D Y Ishak
PREPARED BY:	C. Pierce	REVIEWED BY:	

REVISIONS	INIT.	DATE

SCALE 0 50 1"=50'

SEAL



SIGNATURE | DATE

SIG. INVENTORY NO. 12-0173

12-MAY-2005 08:32
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