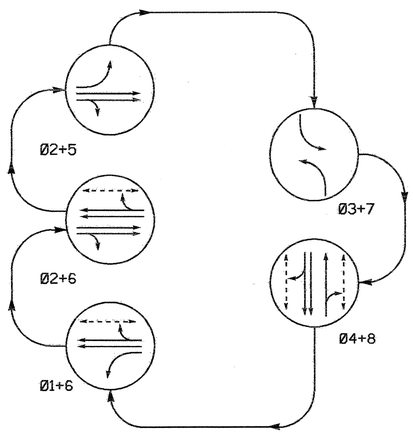
PROJECT REFERENCE NO.	SHEET NO.
U-4736	SIG185

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

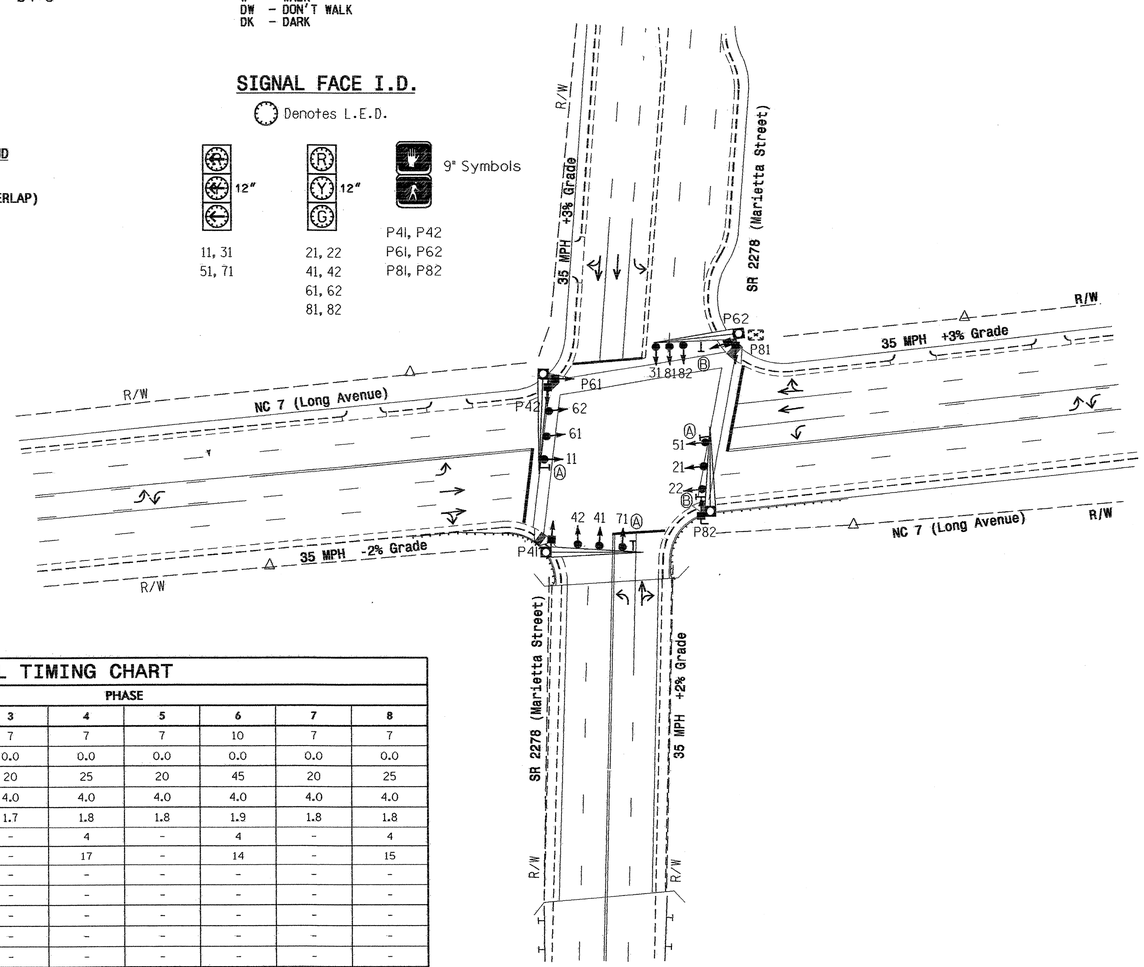
TABLE OF OPERATION

SIGNAL FACE	PHASE 01+6	02+6	02+5	03+7	04+8	FLASH
11	←	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
21, 22	R	G	G	R	R	Y
31	~~R~~	~~R~~	~~R~~	←	~~R~~	~~R~~
41, 42	R	R	R	R	G	R
51	~~R~~	~~R~~	←	~~R~~	~~R~~	~~R~~
61, 62	G	G	R	R	R	Y
71	~~R~~	~~R~~	~~R~~	←	~~R~~	~~R~~
81, 82	R	R	R	R	G	R
P41, P42	DW	DW	DW	DW	W	DK
P61, P62	W	W	DW	DW	DW	DK
P81, P82	DW	DW	DW	DW	W	DK

W - WALK
DW - DON'T WALK
DK - DARK

SIGNAL FACE I.D.

Denotes L.E.D.



2070L TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	7	8
Min Green 1 *	7	10	7	7	7	10	7	7
Extension 1 *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Green 1 *	20	45	20	25	20	45	20	25
Yellow Clearance	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.8	1.9	1.7	1.8	1.8	1.9	1.8	1.8
Walk 1 *	-	-	-	4	-	4	-	4
Don't Walk 1	-	-	-	17	-	14	-	15
Seconds Per Actuation *	-	-	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduction *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Recall Mode	MAX RECALL	MAX RECALL	MAX RECALL	MAX/PED	MAX RECALL	MAX/PED	MAX RECALL	MAX/PED
Vehicle Call Memory	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	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.

5 Phase
Pre-timed
(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. During coordination, phase 1+6 and/or phase 2+5 may be lagged.
4. Phase 3+7 may be lagged.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
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 #: 0929.

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 with Marker	
	Directional Arrow	
	Pavement Marking Arrow	
N/A	Guardrail	
	Metal Pole with Mastarm	
Ⓐ	Left Arrow "ONLY" Sign (R3-5L)	Ⓐ
Ⓑ	"NO TURN ON RED" Sign (R10-11)	Ⓑ

Signal Upgrade

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
Signals and Geometrics Section
DIVISION OF HIGHWAYS
DEPARTMENT OF TRANSPORTATION
1722 N. McDowell St., Raleigh, NC 27603

NC 7 (Long Avenue)
at
SR 2278 (Marietta Street)

Division 12 Gaston County Gastonia

PLAN DATE:	October 2004	REVIEWED BY:	Z.M. Little
PREPARED BY:	L. Blount	REVIEWED BY:	D.Y. Ishak

REVISIONS | INIT. | DATE

SCALE 0 40 1"=40'

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 20022 ENGINEER RICHARD E. MULLINAX
3 JANUARY 05
SIGNATURE DATE
SIG. INVENTORY NO. 12-0929

12-MAY-2005 09:29
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