

PHASING DIAGRAM

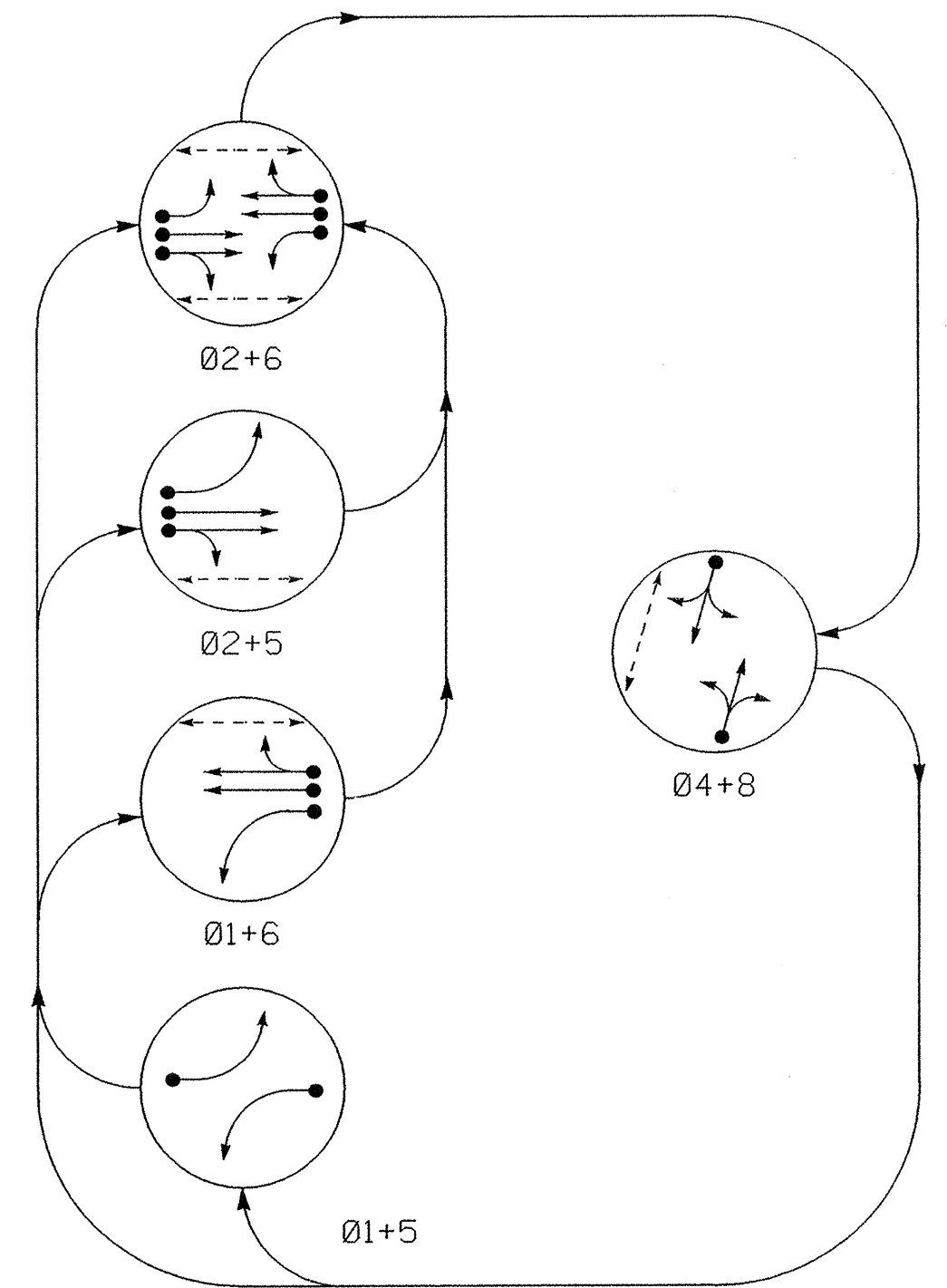
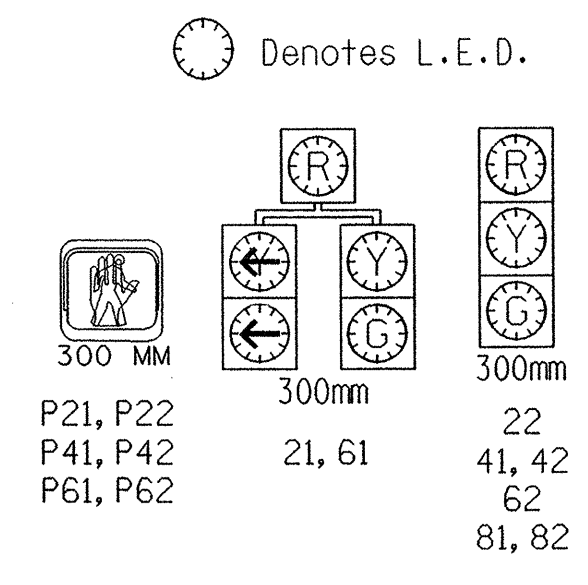


TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
21	R	R	G	R	Y	
22	R	R	G	R	Y	
41,42	R	R	R	G	R	
61	R	G	R	R	Y	
62	R	G	R	R	Y	
81,82	R	R	R	G	R	
P21,P22	DW	DW	W	DW	DARK	
P41,P42	DW	DW	DW	W	DARK	
P61,P62	DW	W	DW	W	DW	DARK

SIGNAL FACE I.D.



PLAN QUANTITIES

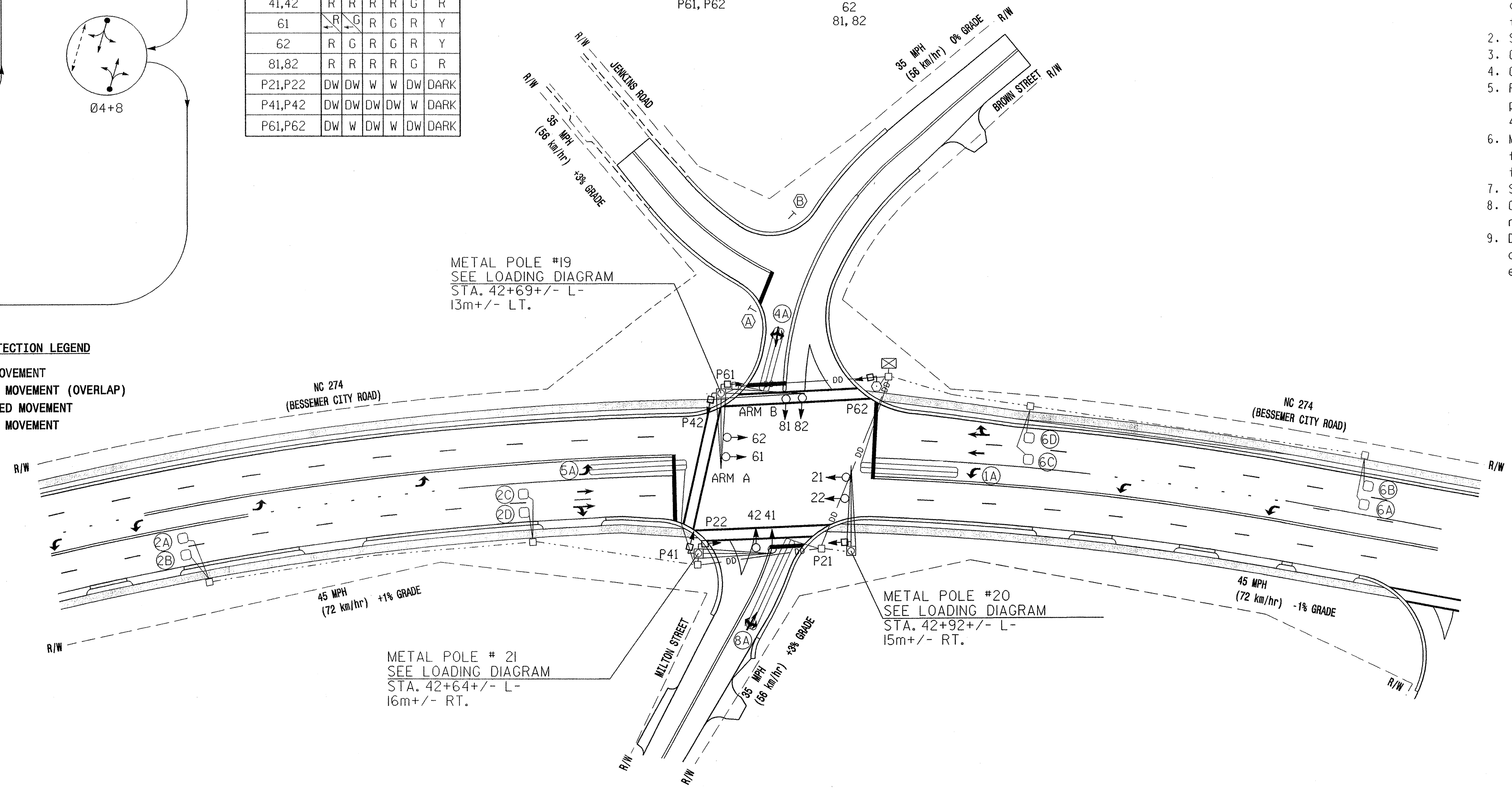
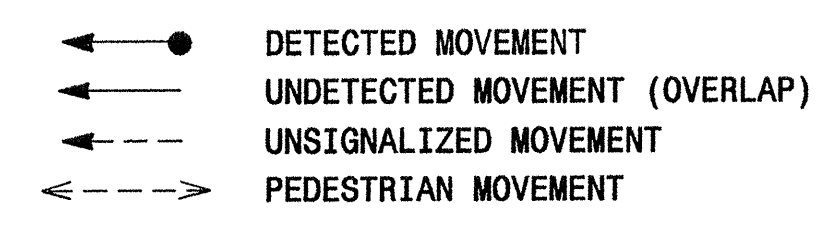
Pay Item	Meters
Signal Cable	580
Messenger Cable	0
Loop Lead-in Cable	900

5 PHASE FULLY ACTUATED GASTONIA CITY SIGNAL SYSTEM

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Set all detector units to presence mode.
- Omit Phase 1 during Phase 2 on.
- Omit Phase 5 during Phase 6 on.
- Program controller to clear from phase 2+6 to phase 1 and/or 5 by progressing through phase 4+8 (see Electrical Details).
- Maximum times shown in timing chart are for free run operation only. Coordinated signal system timing values shall supercede these values.
- System data: Controller Asset: 0264
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Do not program signal for late night flashing operation unless otherwise directed by the engineer.

PHASING DIAGRAM DETECTION LEGEND



LEGEND

PROPOSED	EXISTING

2070L TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	1.0	2.0	2.0	1.0	2.0	1.0
Max Green 1 *	15	45	20	15	45	20
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0
Red Clearance	2.0	1.5	2.0	2.0	1.5	2.0
Walk 1 *	-	5	5	-	5	-
Don't Walk 1	-	13	15	-	17	-
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	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (m)	TURNS	DISTANCE FROM STOPBAR (m)	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	1.8 X 1.8	2-4-2	+2	Y	1	Y	Y	-	-	-	15	Y
2A,2B	1.8 X 1.8	5	90	Y	2	Y	Y	-	-	1.8	-	Y
2C,2D	1.8 X 1.8	4	27	Y	2	Y	Y	-	-	-	-	Y
4A	1.8 X 1.2	2-4-2	+1	Y	4	Y	Y	-	-	-	5	Y
5A	1.8 X 1.8	2-4-2	+2	Y	5	Y	Y	-	-	-	15	Y
6A,6B	1.8 X 1.8	4	90	Y	6	Y	Y	-	-	1.8	-	Y
6C,6D	1.8 X 1.8	4	27	Y	6	Y	Y	-	-	-	-	Y
8A	1.8 X 1.8	2-4-2	+1	Y	8	Y	Y	-	-	-	5	Y

Prepared in the Office of:
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 Raleigh, North Carolina 27609

SIGNAL UPGRADE - FINAL DESIGN

N.C. 274 (BESSEMER CITY ROAD) AT BROWN ST. & MILTON ST.

DIVISION 12 GASTON COUNTY GASTONIA

PLAN DATE: OCT. 30, 2003 REVIEWED BY: R. DUBNICKA, P.E.

PREPARED BY: RGL REVIEWED BY:

SCALE: 1:500

REVISIONS: _____ INIT. DATE

SEAL: PROFESSIONAL ENGINEER, STATE OF NORTH CAROLINA, SEAL 027742, ROBERT J. DUBNICKA

SIGNATURE: Robert J. Dubnicka DATE: 8-9-04

SIG. INVENTORY NO. 12-0264

08-NIC-2004-12427
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 rdubnicka

* 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.