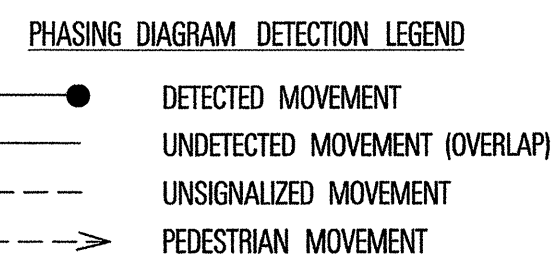
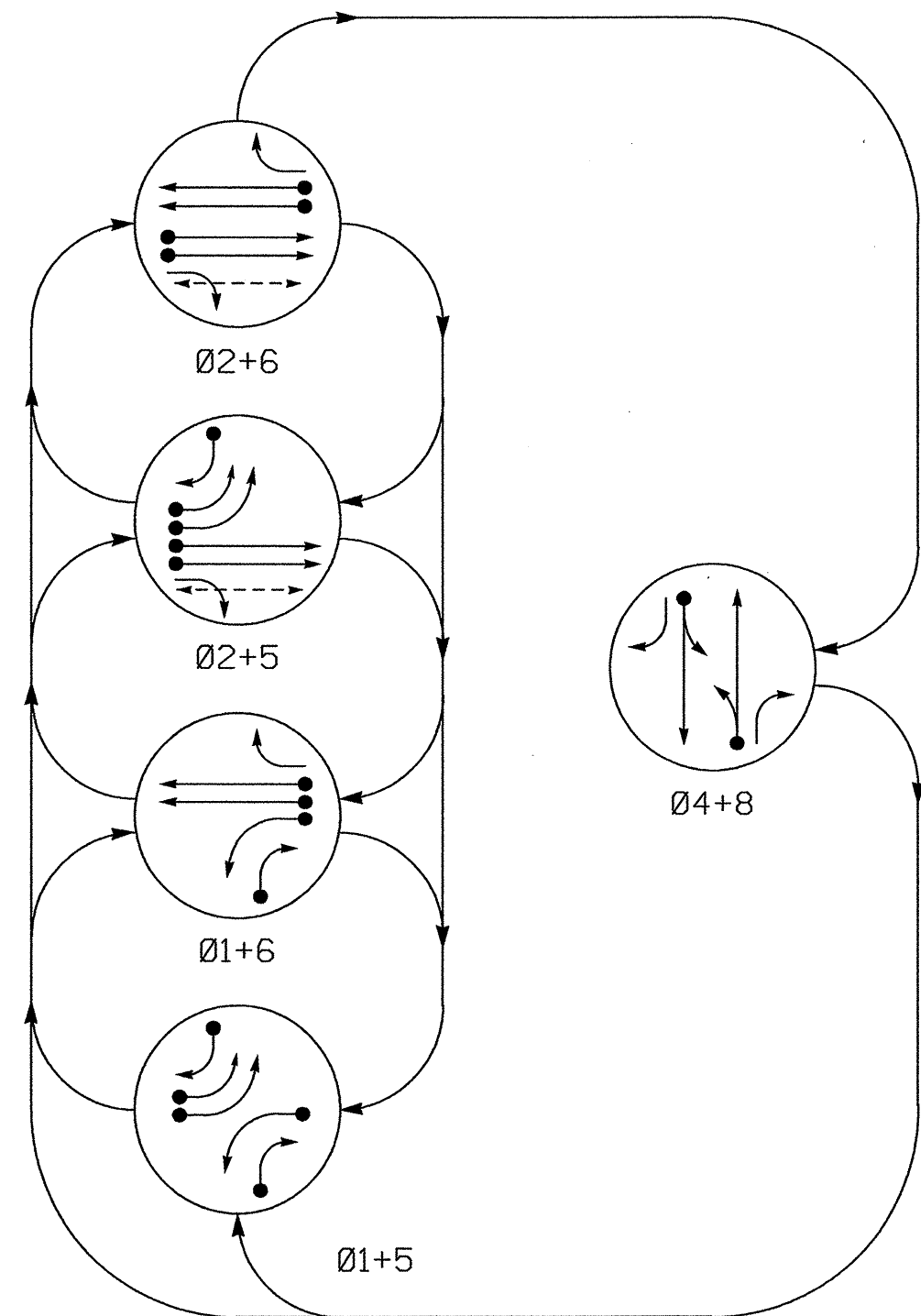
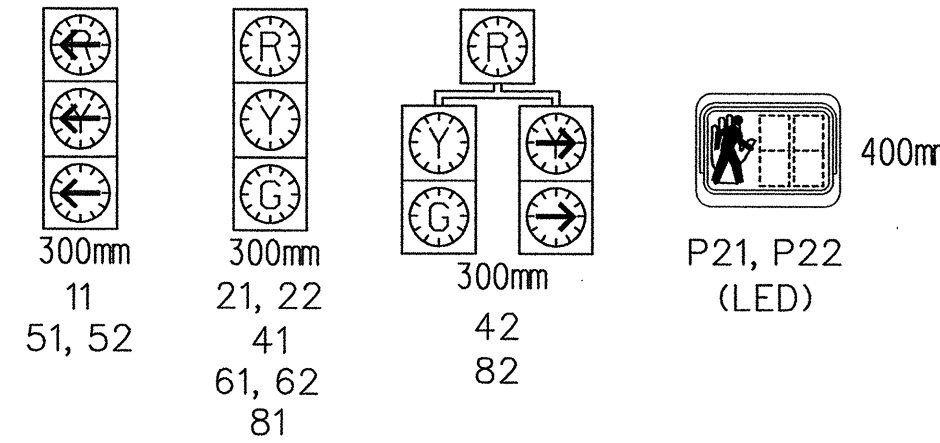


PHASING DIAGRAM



SIGNAL FACE	PHASE							
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8	Ø1+5	Ø1+6	Ø2+5
11	←	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	Y		
41	R	R	R	R	G	R		
42	R	R	R	R	G	R		
51, 52	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y		
81	R	R	R	R	G	R		
82	R	R	R	R	G	R		
P21, P22	DW	DW	W	W	DW	DRK		

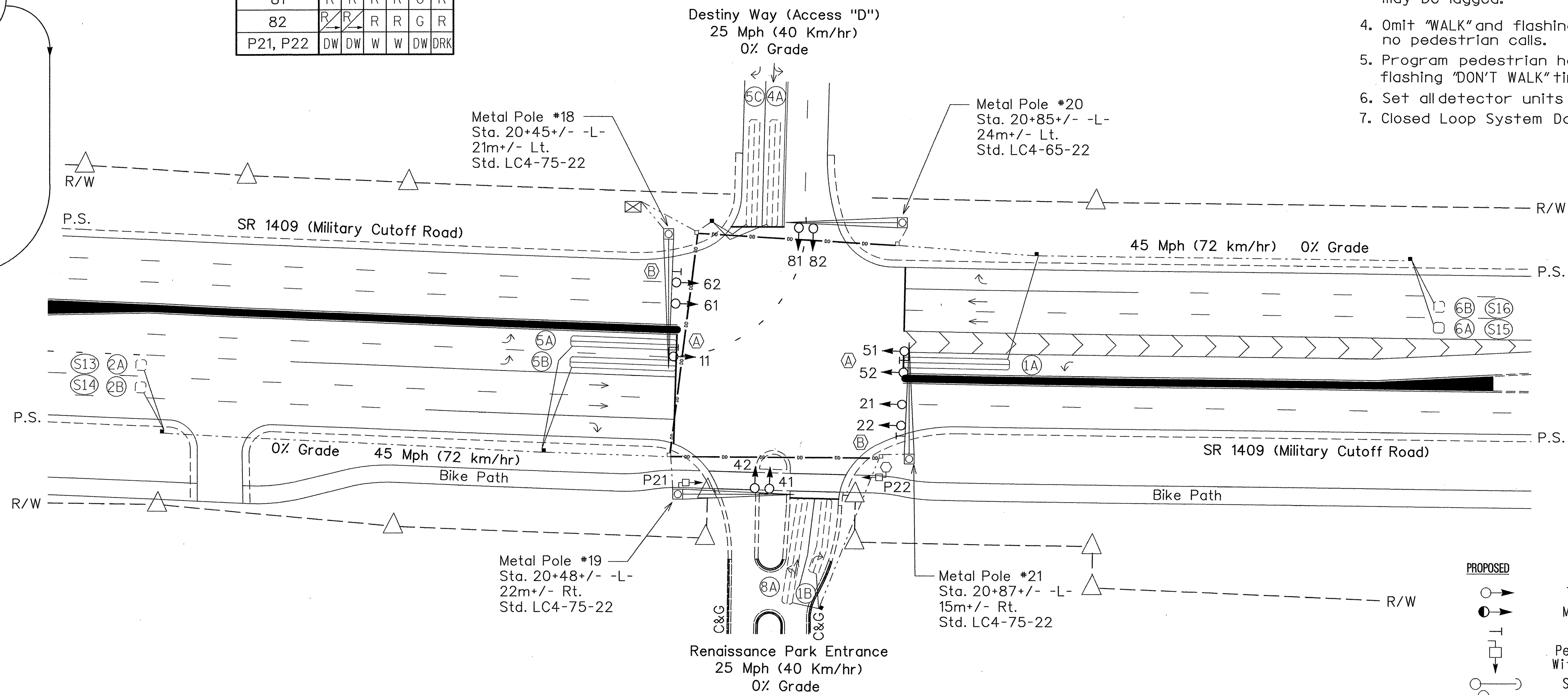
SIGNAL FACE I.D.



5 Phase
(Fully Actuated)
(Military Cutoff Road Closed Loop System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Maximum times shown in timing chart are for free-run operation only. Coordinated signalsystem timing values shall supersede these values.
3. During coordination, phase 1 and/or phase 5 may be lagged.
4. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
5. Program pedestrian heads to count down the flashing "DON'T WALK" time only.
6. Set all detector units to presence mode.
7. Closed Loop System Data: Controller Asset #0952.

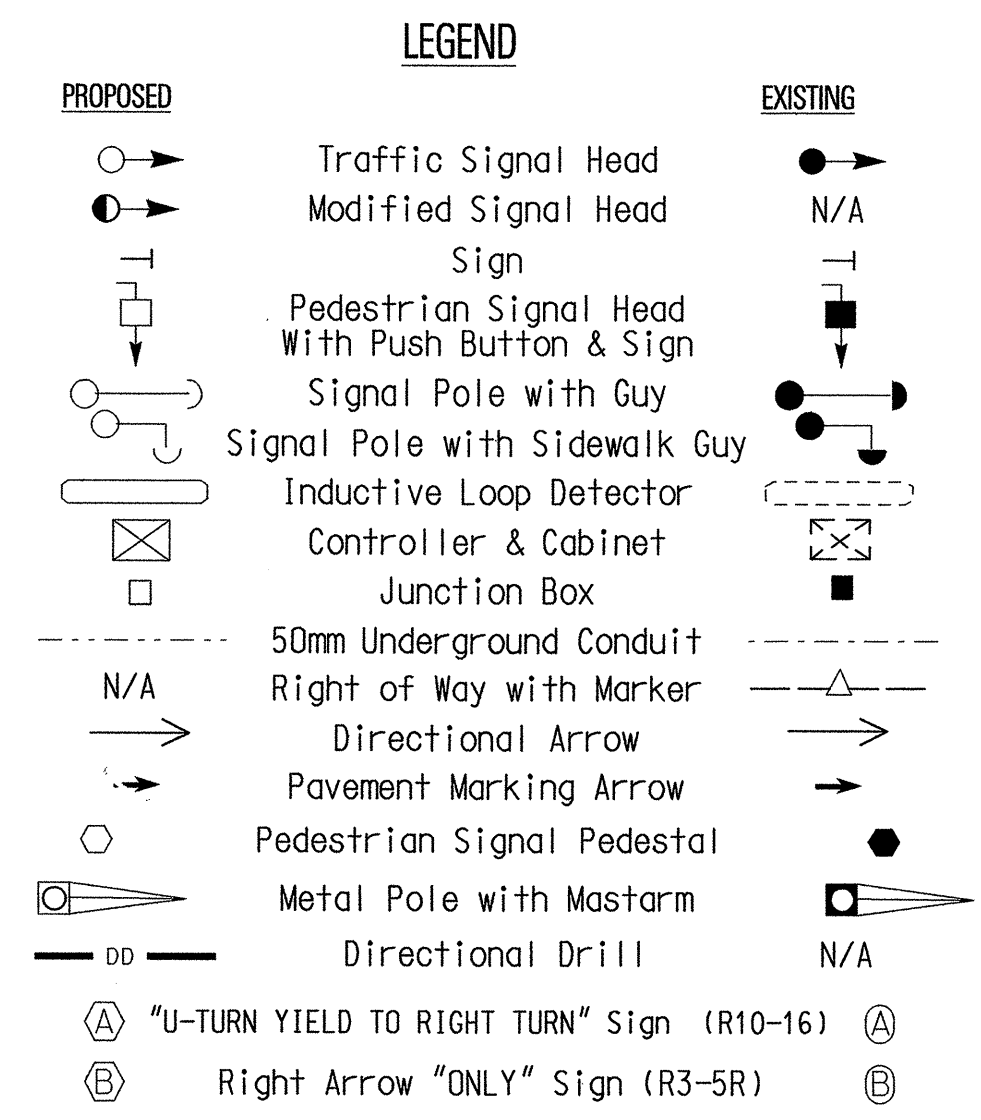


FEATURE	2070L TIMING CHART							
	1	2	4	5	6	8		
Min Green 1 *	7	12	7	7	12	7		
Extension 1 *	1.0	6.0	1.0	1.0	6.0	1.0		
Max Green 1 *	15	100	25	20	100	25		
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0		
Red Clearance	3.0	1.5	3.0	3.0	1.5	3.0		
Walk 1 *	-	-	-	-	-	-		
Don't Walk 1	-	-	-	-	-	-		
Seconds Per Actuation *	-	1.5	-	-	1.5	-		
Max Variable Initial *	-	34	-	-	34	-		
Time Before Reduction *	-	15	-	-	15	-		
Time To Reduce *	-	30	-	-	30	-		
Minimum Gap	-	3.0	-	-	3.0	-		
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-		
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-		
Dual Entry	-	-	ON	-	-	ON		
Simultaneous Gap	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.

2070L LOOP & DETECTOR INSTALLATION												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (M)	TURNS	DISTANCE FROM STOPBAR (M)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	1.8X1.8	2-4-2	0	Y	1	Y	Y	-	-	-	-	Y
1B	1.8X1.8	2-4-2	0	Y	1	Y	Y	-	-	-	15	Y
2A-S13	1.8X1.8	5	90	-	2	Y	Y	-	Y	-	-	Y
2B-S14	1.8X1.8	5	90	-	2	Y	Y	-	Y	-	-	Y
4A	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	-	3	Y
5A	1.8X1.8	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
5B	1.8X1.8	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
5C	1.8X1.8	2-4-2	0	-	5	Y	Y	-	-	-	15	Y
6A-S15	1.8X1.8	5	90	Y	6	Y	Y	-	Y	-	-	Y
6B-S16	1.8X1.8	5	90	-	6	Y	Y	-	Y	-	-	Y
8A	1.8X1.8	2-4-2	0	Y	8	Y	Y	-	-	-	-	Y

PLAN QUANTITIES	
Pay Item	Meters
Signal Cable	520
Messenger Cable	0
Lead-in Cable	1030



Signal Upgrade Final Design

SR 1409 (Military Cutoff Road)
at
Renaissance Park Entrance and Destiny Way
(Access "D")
New Hanover County, Wilmington

Division 3

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PLAN DATE: Sept. 2003

SCALE: 1:500

17/104

SIG. INVENTORY NO. 03-0952