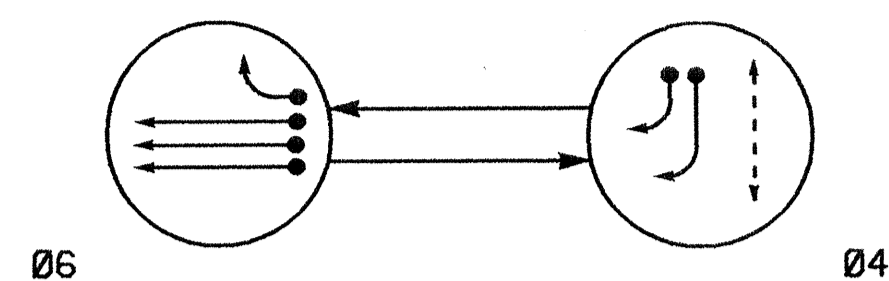


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

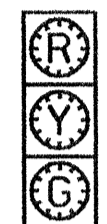
- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ←--- UNSIGNALIZED MOVEMENT
- ←---> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 6	Ø 4	FLIGHT
41, 42	R	G	R
61, 62, 63	G	R	Y
P41, P42	DW	W	DRK

SIGNAL FACE I.D.

Denotes L.E.D.



41, 42  
61, 62, 63



P41, P42

2070L LOOP & DETECTOR INSTALLATION

LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING							
	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
4A	6X60	2-4-2	0	-	4	Y	Y	-	-	10	Y
4B	6X60	2-4-2	0	-	4	Y	Y	-	-	15	Y
6A/S09	6X6	6	300	-	6	Y	Y	-	Y	-	Y
6B/S10	6X6	6	300	-	6	Y	Y	-	Y	-	Y
6C/S11	6X6	6	300	-	6	Y	Y	-	Y	-	Y

2 Phase Fully Actuated Chapel Hill Closed Loop System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Install backplates for signal heads numbered 61, 62, 63.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Set all detector units to presence mode.
- Closed loop system data:  
Master Asset #10707,  
Controller Asset #0382.

PLAN QUANTITIES

Pay Item	Feet
Signal Cable	480
Messenger Cable	0
Lead-in Cable	660

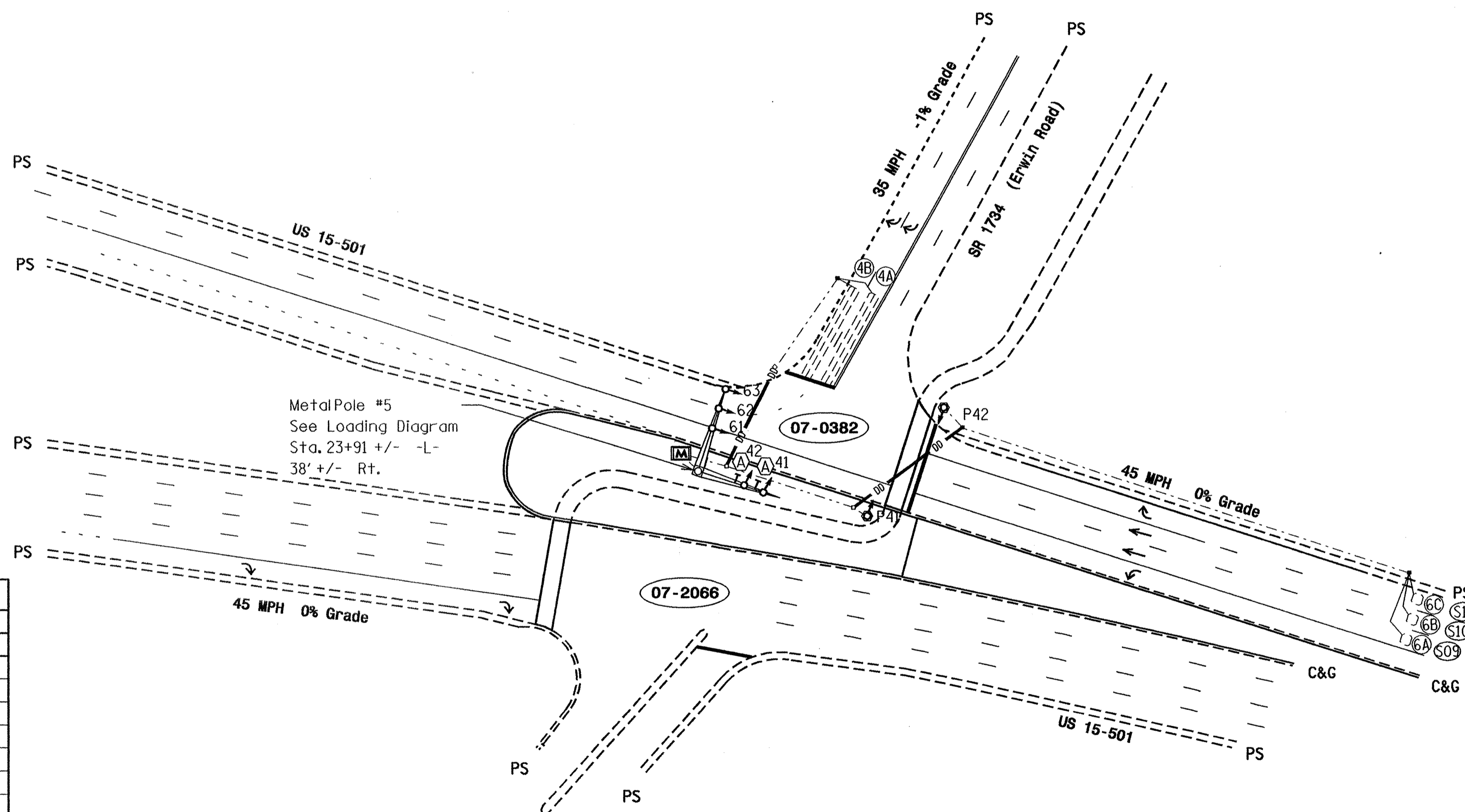
LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
● → Modified Signal Head	□ → Sign
□ → Pedestrian Signal Head	□ → Pedestrian Signal Head With Push Button & Sign
○ → Signal Pole with Guy	● → Signal Pole with Sidewalk Guy
□ → Inductive Loop Detector	□ → Master Controller & Cabinet
□ → Junction Box	□ → 2-in Underground Conduit
--- Right of Way	→ Directional Arrow
→ Pavement Marking Arrow	→ Metal Pole with Mastarm
○ → Pedestrian Signal Pedestal	● → Right Arrow "ONLY" Sign (R3-5R)
○ → Directional Drill	○ → 2-2" Conduit

2070L TIMING CHART

FEATURE	PHASE	
	6	4
Min Green 1 *	12	7
Extension 1 *	6.0	1.0
Max Green 1 *	90	25
Yellow Clearance	4.7	4.0
Red Clearance	1.5	2.0
Walk 1 *	-	7
Don't Walk 1	-	11
Seconds Per Actuation *	1.5	-
Max Variable Initial *	34	-
Time Before Reduction *	15	-
Time To Reduce *	45	-
Minimum Gap	3.0	-
Recall Mode	MIN RECALL	-
Vehicle Call Memory	YELLOW	-
Dual Entry	-	-
Simultaneous Gap	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.



Final Installation

	<p>US 15-501 AT SR 1734 (Erwin Road)</p>		
	<p>Division 07 Orange County Chapel Hill</p>	<p>PLAN DATE: August 2004 REVIEWED BY: J Galloway</p>	
<p>122 N. McDowell St., Raleigh, NC 27603</p>	<p>SCALE 0 50 1"=50'</p>	<p>REVISIONS</p>	<p>INIT. DATE</p>
<p>SIGNATURE: <i>Timothy J. Williams</i> DATE: 9/7/04</p>			<p>SIG. INVENTORY NO. 07-0382</p>