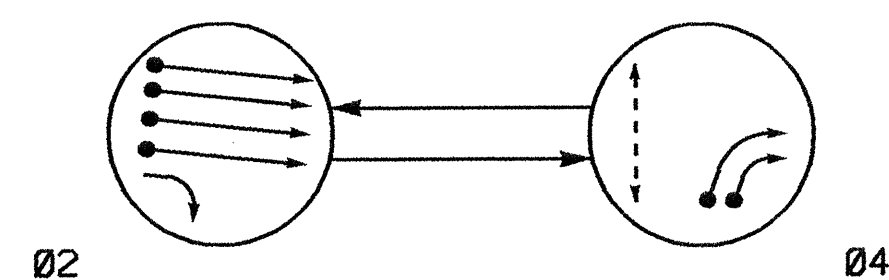


PHASING DIAGRAM



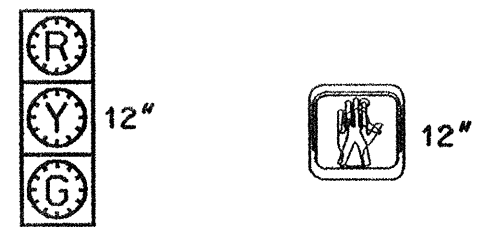
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE		
	02	04	LOE
	2	4	1-5
21, 22, 23, 24	G	R	Y
41, 42	R	G	R
P41, P42	DW	W	DRK

SIGNAL FACE I.D.

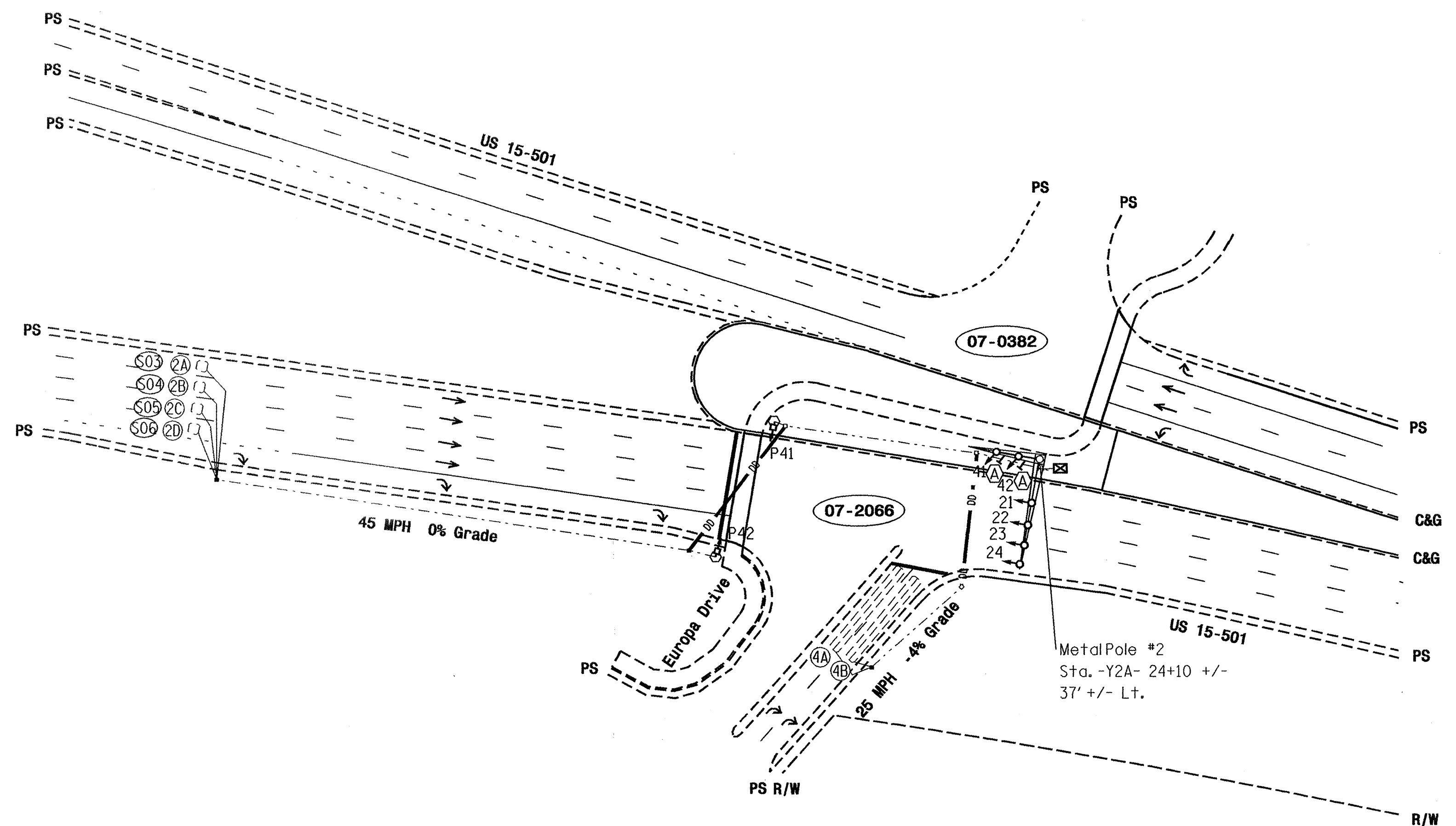
○ Denotes L.E.D.



21, 22, 23, 24
41, 42 P41, P42

2070L LOOP & DETECTOR INSTALLATION

LOOP	INDUCTIVE LOOPS				DETECTOR PROGRAMMING							
	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A/S03	6X6	4	300	-	2	Y	Y	-	Y	-	-	Y
2B/S04	6X6	4	300	-	2	Y	Y	-	Y	-	-	Y
2C/S05	6X6	4	300	-	2	Y	Y	-	Y	-	-	Y
2D/S06	6X6	4	300	-	2	Y	Y	-	Y	-	-	Y
4A	6X60	2-4-2	0	-	4	Y	Y	-	-	-	10	Y
4B	6X60	2-4-2	0	-	4	Y	Y	-	-	-	15	Y



FEATURE	PHASE	
	2	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	2.5	2.0
Walk 1*	-	7
Don't Walk 1	-	12
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 4 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

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.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Set all detector units to presence mode.
- Closed loop system data: Controller Asset #2066.

PLAN QUANTITIES

Pay Item	Feet
Signal Cable	630
Messenger Cable	0
Lead-in Cable	870

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	- - -
→	Directional Arrow	→
→	Pavement Marking Arrow	→
○	Metal Pole with Mastarm	○
○	Pedestrian Signal Pedestal	○
⊕	Right Arrow "ONLY" Sign (R3-5R)	⊕
—○—	Directional Drill 2-2" Conduit	N/A

New Installation

Prepared in the Office of:

 DIVISION OF TRANSPORTATION
 SURVEY AND GEOMETRIC SECTION

US 15-501 Northbound at Europa Drive

Division 07 Orange County Chapel Hill
 PLAN DATE: August 2004 REVIEWED BY: J Galloway
 PREPARED BY: TDB/TSB REVIEWED BY:
 REVISIONS: _____ INIT. DATE

122 N. McDowell St., Raleigh, NC 27603
 SCALE 0 50
 1"=50'

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 24393
 J. WILLIAMS
 ENGINEER
 THOMAS WILLIAMS
 DATE 9/7/04
 SIGNATURE DATE
 SIG. INVENTORY NO. 07-2066