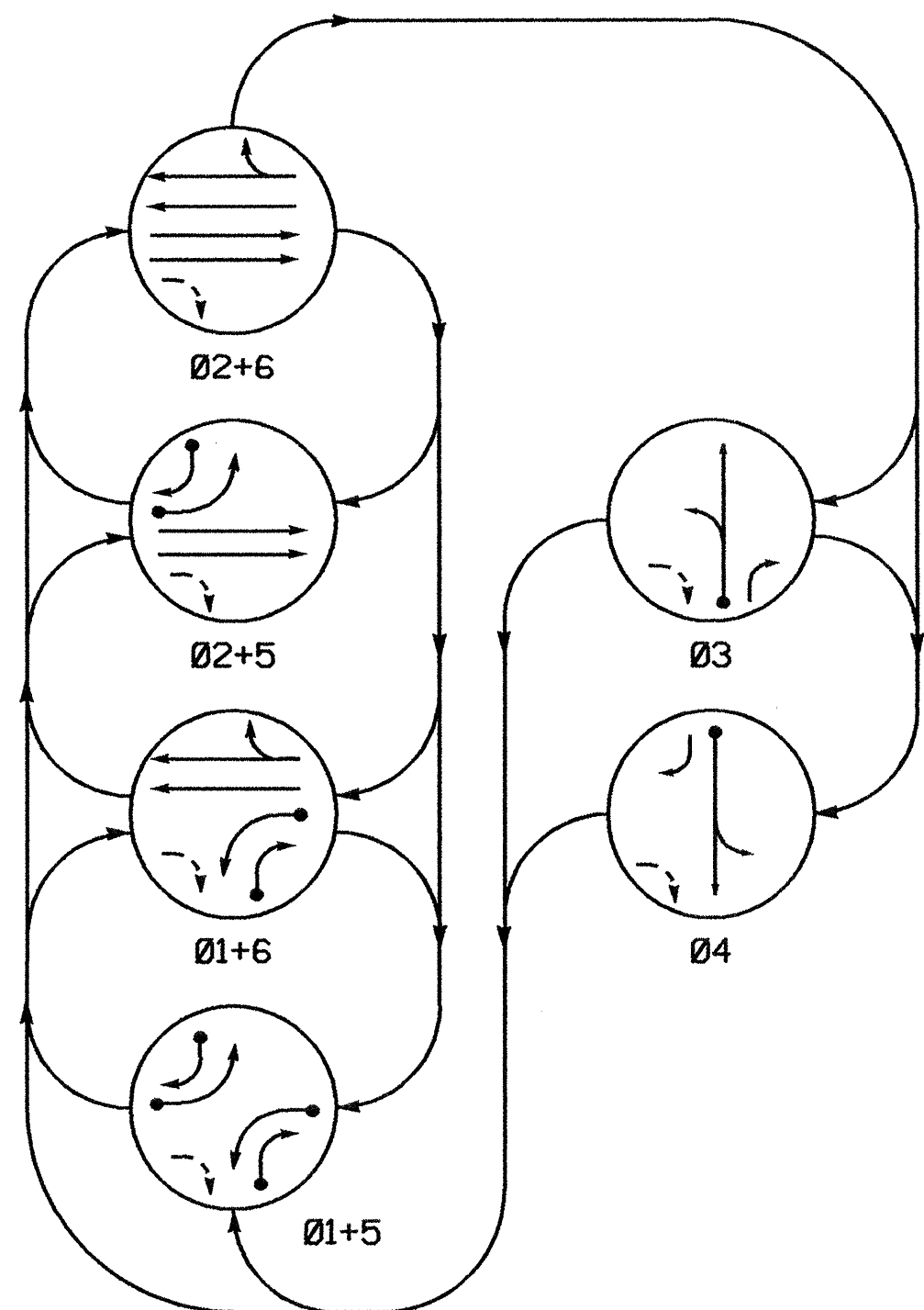


PHASING DIAGRAM



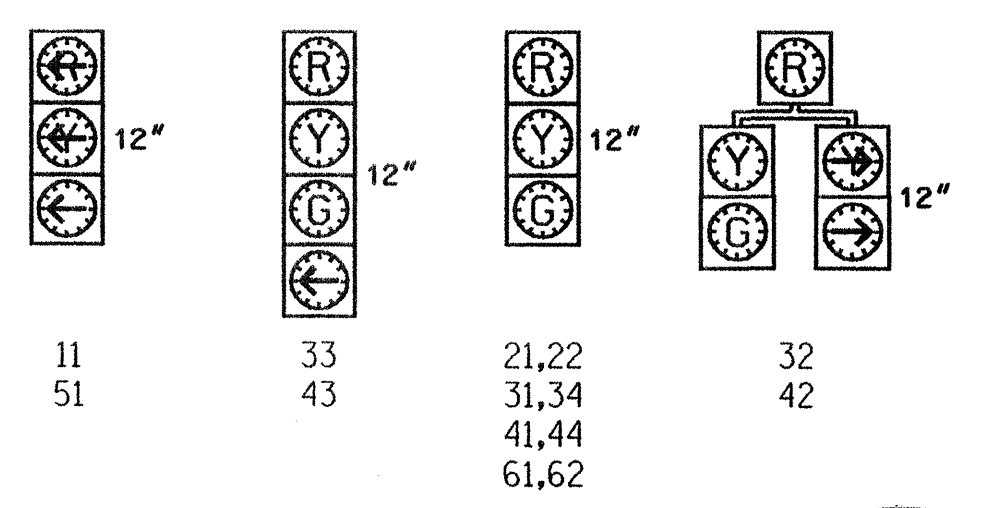
PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ○ UNDETECTED MOVEMENT (OVERLAP)
 - - - UNSIGNALIZED MOVEMENT
 - - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11	-	-	-	-	-	-
21, 22	R	R	G	G	R	R
31, 34	R	R	R	R	G	R
32	R	R	R	R	G	R
33	R	R	R	R	G	R
41, 44	R	R	R	R	G	R
42	R	R	R	R	G	R
43	R	R	R	R	G	R
51	-	-	-	-	-	-
61, 62	R	G	R	G	R	R

SIGNAL FACE I.D.

○ Denotes L.E.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	DETECTOR PROGRAMMING								
				PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD	
1A	6x40	2-4-2	0	Y	1	Y	Y	-	-	-	-	Y
1B	6x40	2-4-2	0	Y	1	Y	Y	-	-	-	15	Y
3A	6x40	2-4-2	0	Y	3	Y	Y	-	-	-	-	Y
4A	6x40	2-4-2	0	Y	4	Y	Y	-	-	-	3	Y
5A	6x40	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
5B	6x40	2-4-2	0	Y	5	Y	Y	-	-	-	15	Y

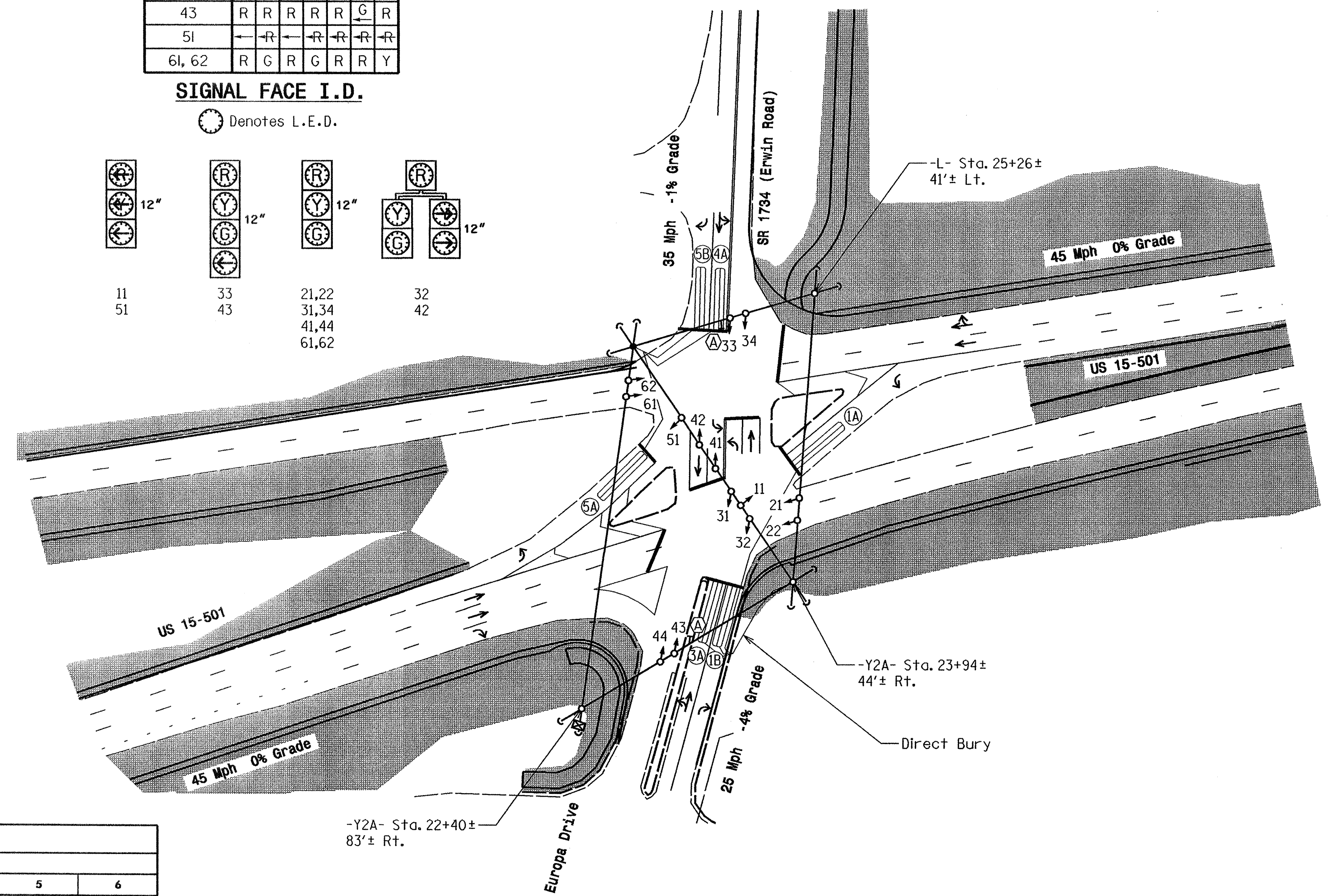
6 Phase Semi-Actuated Chapel Hill Closed Loop System

NOTES

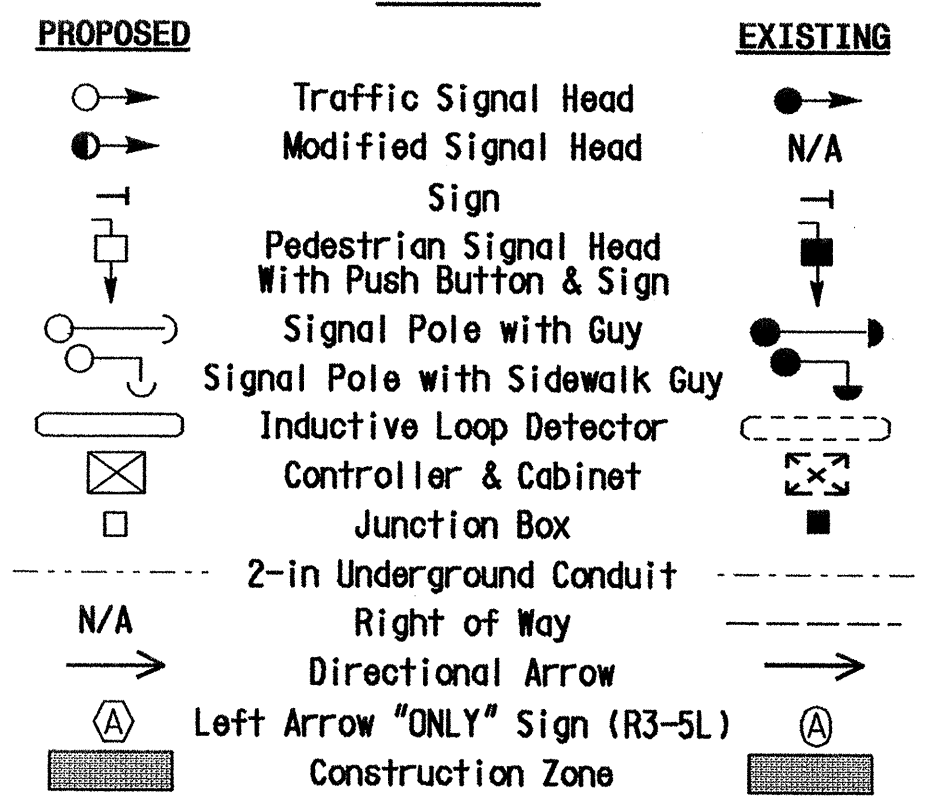
- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Install backplates for signal heads numbered #11,21,22,51,61, & 62.
- Phase 1 or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.

PLAN QUANTITIES

Pay Item	Feet
Signal Cable	2250
Messenger Cable	875
Lead-in Cable	530



LEGEND



2070L TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1*	7	12	7	7	7	12
Extension 1*	2.0	0.0	3.0	3.0	2.0	0.0
Max Green 1*	20	70	20	20	35	70
Yellow Clearance	4.0	4.7	4.0	4.0	4.0	4.7
Red Clearance	2.0	1.0	3.8	3.1	2.0	1.0
Walk 1*	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation*	-	-	-	-	-	-
Max Variable Initial*	-	-	-	-	-	-
Time Before Reduction*	-	-	-	-	-	-
Time To Reduce*	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode	-	MAX RECALL	-	-	-	MAX RECALL
Vehicle Call Memory	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-
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.

Signal Upgrade-Temporary Signal 1-Construction Phase I

Prepared in the Office of
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 Signal and Geometric Section

US 15-501
 At
 SR 1734 (Erwin Drive)/
 Europa Drive

Division 7 Orange County Chapel Hill

PLAN DATE: July 2004 REVIEWED BY: JGalloway

PREPARED BY: JGalloway REVIEWED BY: JGalloway

SCALE: 1"=50'

Signature: J. Galloway DATE: 9/7/04

SIG. INVENTORY NO. 07-0382 T1

07-SEP-2004 13:44 W:\pdp\ees\jg\11\work\sig\0382T1_Sig.Dwg_2004mdd.dgn jgalloway