METRIC	PROJECT REFERENCE NO.	SHEET NO.
	R-2568B	Sig.10

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+6	PHASE Ø4+8	FLASH
21,22,23	G	R	Y
41,42	R	G	R
61,62,63	G	R	Y
81,82	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.

300mm
21,22,23
41,42
61,62,63
81,82

2070L LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (M)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	1.8X1.8	5	130	Y	2	Y	Y	-	-	-	-	-
2B	1.8X1.8	5	130	Y	2	Y	Y	-	-	-	-	Y
2C	1.8X18	2-4-2	0	Y	2	Y	Y	Y	-	-	3	Y
4A	1.8X18	2-4-2	0	-	4	Y	Y	-	-	-	-	-
4B	1.8X18	2-4-2	0	-	4	Y	Y	-	-	-	10	-
6A	1.8X1.8	6	130	Y	6	Y	Y	-	-	-	-	-
6B	1.8X1.8	6	130	Y	6	Y	Y	-	-	-	-	Y
6C	1.8X18	2-4-2	0	Y	6	Y	Y	Y	-	-	3	Y
8A	1.8X18	2-4-2	0	Y	8	Y	Y	-	-	-	-	Y
8B	1.8X18	2-4-2	0	Y	8	Y	Y	-	-	-	-	Y
8C	1.8X18	2-4-2	0	Y	8	Y	Y	-	-	-	15	Y

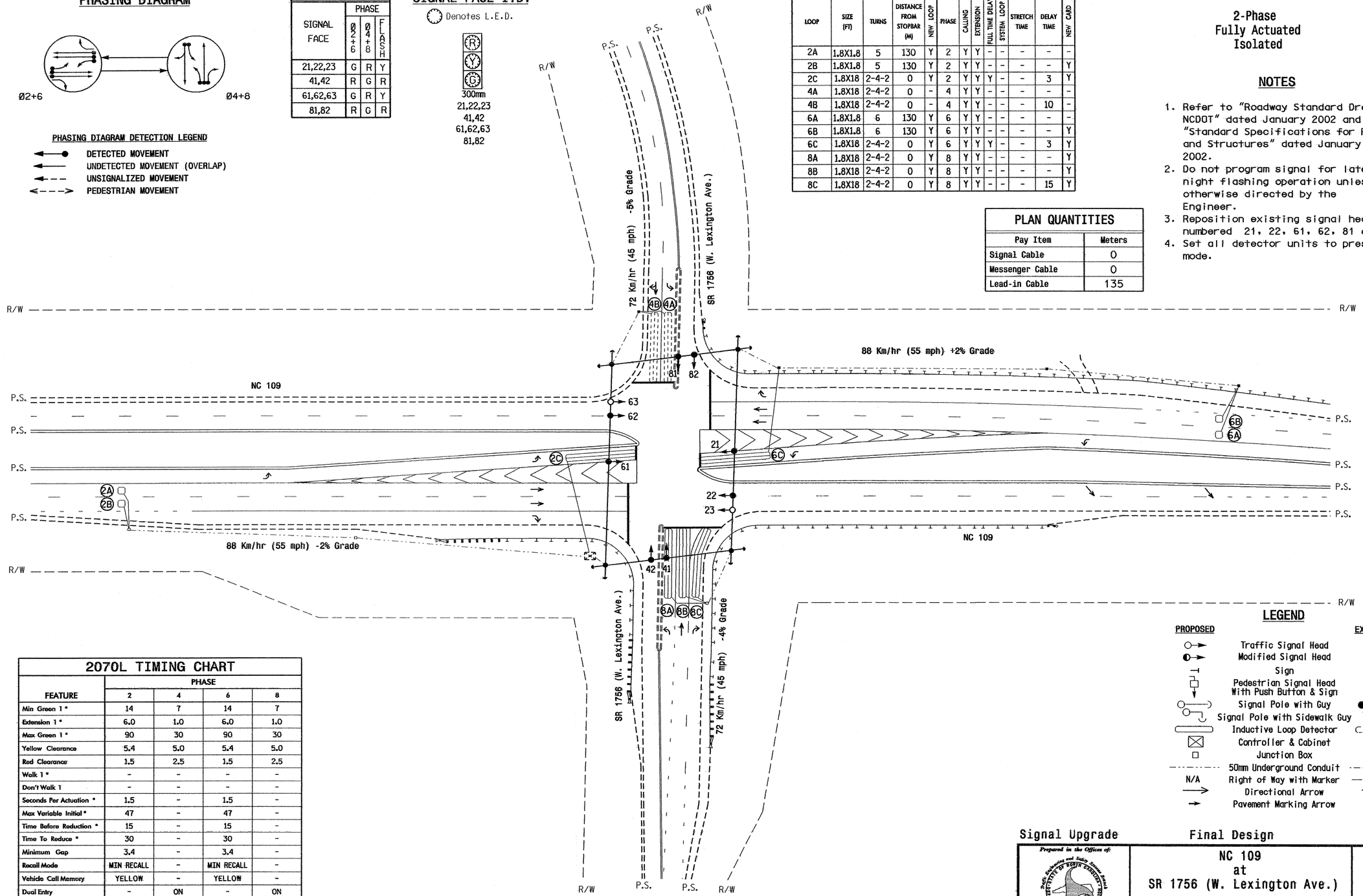
PLAN QUANTITIES

Pay Item	Meters
Signal Cable	0
Messenger Cable	0
Lead-in Cable	135

2-Phase
Fully Actuated
Isolated

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reposition existing signal heads numbered 21, 22, 61, 62, 81 and 82.
4. Set all detector units to presence mode.



2070L TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1 *	14	7	14	7
Extension 1 *	6.0	1.0	6.0	1.0
Max Green 1 *	90	30	90	30
Yellow Clearance	5.4	5.0	5.4	5.0
Red Clearance	1.5	2.5	1.5	2.5
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	1.5	-	1.5	-
Max Variable Initial *	47	-	47	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	30	-	30	-
Minimum Gap	3.4	-	3.4	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	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.

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	
	50mm Underground Conduit	
N/A	Right of Way with Marker	
	Directional Arrow	
	Pavement Marking Arrow	

Signal Upgrade — Final Design

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
Signals and Geometrics Section
DIVISION OF HIGHWAYS
DEPARTMENT OF TRANSPORTATION
STATE OF NORTH CAROLINA
122 N. McDowell St., Raleigh, NC 27603

NC 109
at
SR 1756 (W. Lexington Ave.)

Division 9 Davidson County Thomasville

PLAN DATE:	June 2004	REVIEWED BY:	C.J. Collins
PREPARED BY:	Luhr	REVIEWED BY:	

REVISIONS	INIT.	DATE

SCALE 5 0 10 1:500

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS
SIGNATURE 8/2/04 DATE

SIG. INVENTORY NO. 09-1292

02-AUG-2004 10:14
W:\PEOPLE\luhr\MUNIGR-1\WTPPRO\1HR-2568B\Signals\091292.sig
luhr