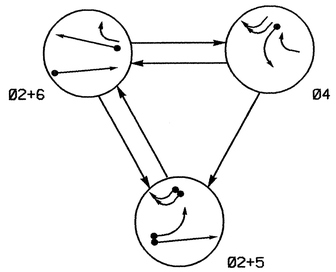
METRIC	PROJECT REFERENCE NO.	SHEET NO.
	R-0977A	Sig.6

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø4	PHASE FLASH
21,22	G	G	R	Y
41	~~R~~	~~R~~	←	~~R~~
42,43	→	~~R~~	→	~~R~~
44	R	R	G	R
51	←	~~R~~	~~R~~	~~R~~
61	R	G	R	Y
62	R	G	R↙	Y

SIGNAL FACE I.D.

Denotes L.E.D.

2070L LOOP & DETECTOR INSTALLATION

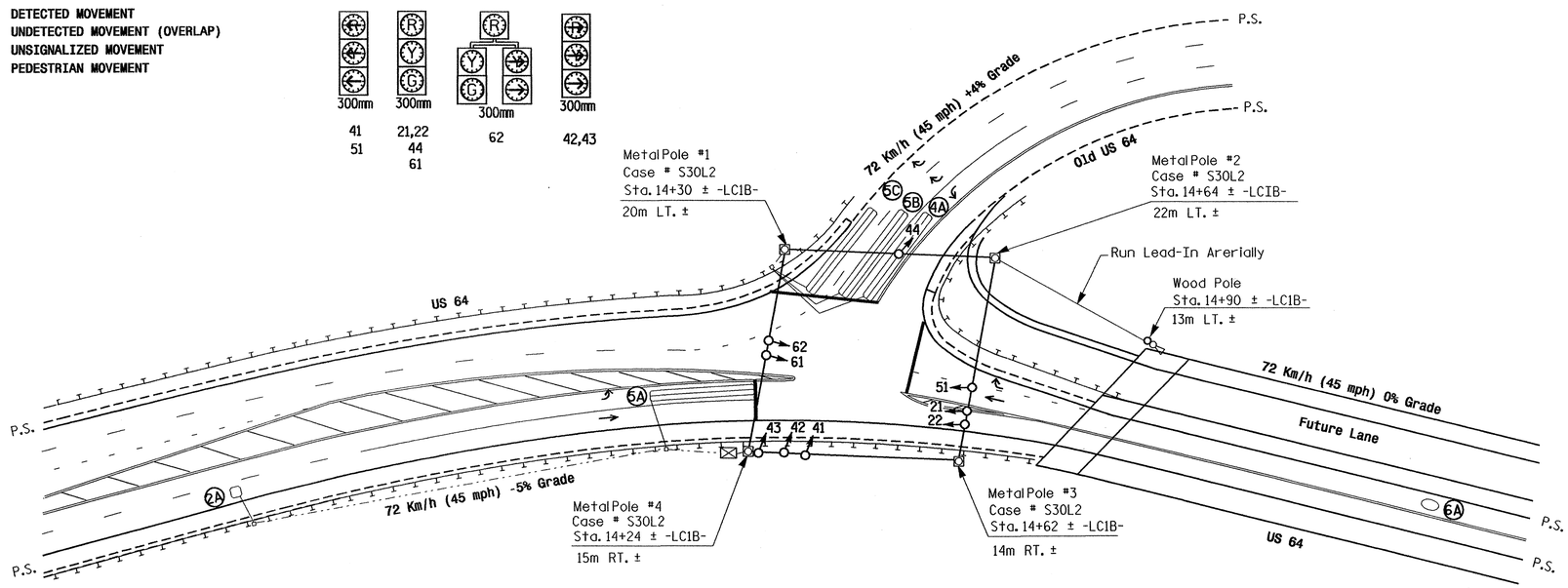
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (M)	TURNS	DISTANCE FROM STOPBAR (M)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	1.8X1.8	4	90	Y	2	Y	Y	-	-	-	-	Y
4A	1.8X18	2-4-2	0	Y	4	Y	Y	-	-	-	3	Y
5A	1.8X18	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
5B	1.8X18	2-4-2	0	Y	5	Y	Y	-	-	-	15	Y
5C	1.8X18	2-4-2	0	Y	5	Y	Y	-	-	-	15	Y
6A	1.8X3.0*	N/A	90	Y	6	Y	Y	-	-	-	-	Y

* Microwave Detection Zone

3-Phase
Fully Actuated
(Time Based)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
3. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
4. Set all detector units to presence mode.



PLAN QUANTITIES

Pay Item	Meters
Signal Cable	200
Messenger Cable	145
Lead-in Cable	270

2070L TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 5	PHASE 6
Min Green 1 *	12	7	7	12
Extension 1 *	6.0	2.0	1.0	6.0
Max Green 1 *	60	25	25	60
Yellow Clearance	5.0	4.0	4.0	5.0
Red Clearance	1.5	1.5	3.0	1.5
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	2.5	-	-	2.5
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	-	-	-	-
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	
	Out of Pavement Detector	
	Microwave Detection Zone	

New Installation

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

SCALE 5 0 10
1:500

US 64
at
Old US 64

Division 14 Cherokee County Murphy

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

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS
SIGNATURE 9/30/04 DATE
SIG. INVENTORY NO. 14-1175

23-SEP-2004 08:54
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