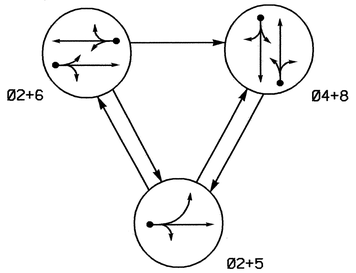
PROJECT REFERENCE NO.	SHEET NO.
B-3475	Sig. 2

PHASING DIAGRAM

See Note #4



PHASING DIAGRAM DETECTION LEGEND

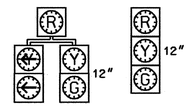
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø4+8	FLASH
21	G	G	R	Y
22	G	G	R	Y
41, 42	R	R	G	R
61, 62	R	G	R	Y
81, 82	R	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.



21

22
41, 42
61, 62
81, 82

2070L LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	6X6	4	70	Y	2	Y	Y	-	-	-	-	Y
4A	6X60	2-4-2	0	Y	4	Y	Y	-	-	-	5	Y
5A	6X60	2-4-2	0	Y	5	Y	Y	-	-	-	3	Y
6A	6X6	4	70	Y	6	Y	Y	-	-	-	-	Y
8A	6X60	2-4-2	0	Y	8	Y	Y	-	-	-	5	Y

3 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. Pavement markings are existing.
4. Enable backup protect for phase 2 to allow the controller to clear from phase 2+6 to phase 5 by progressing through all red display.
5. Set all detector units to presence mode.

PLAN QUANTITIES	
Pay Item	Feet
Signal Cable	385
Messenger Cable	-
Lead-in Cable	635

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	

2070L TIMING CHART

FEATURE	PHASE 2	4	5	6	8
Min Green 1 *	10	7	7	10	7
Extension 1 *	3.0	1.0	1.0	3.0	1.0
Max Green 1 *	30	20	25	30	20
Yellow Clearance	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.0	1.0	1.0	1.0	1.0
Red Revert	5.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	MIN RECALL	-	MIN RECALL	-	-
Vehicle Call Memory	YELLOW	-	-	YELLOW	-
Dual Entry	-	ON	-	-	ON
Simultaneous Gap	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 Design

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

S. Washington Street at W. Allen Street

Division 14 Henderson County Hendersonville

PLAN DATE: January 2004 REVIEWED BY: B L Watson

PREPARED BY: R N Mouberry REVIEWED BY:

SCALE 0 20 1"=20'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS

Timothy J. Williams 3/23/04
SIGNATURE DATE

SIG. INVENTORY NO. 14-1161 T

23-MAR-2004 10:34
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rmouberry