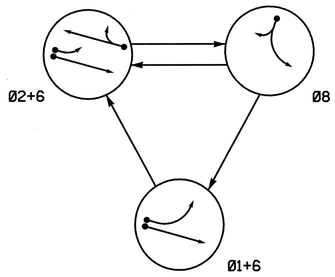
METRIC	PROJECT REFERENCE NO.	SHEET NO.
	R-2552AA/AB	SIG. 2

3 Phase
Fully Actuated
(Isolated)

PHASING DIAGRAM



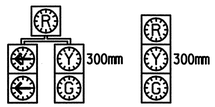
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION				
SIGNAL FACE	PHASE Ø1+6	Ø2+6	Ø8	FLASH
21,22	R	G	R	Y
61	G	G	R	Y
62	G	G	R	Y
81,82	R	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.



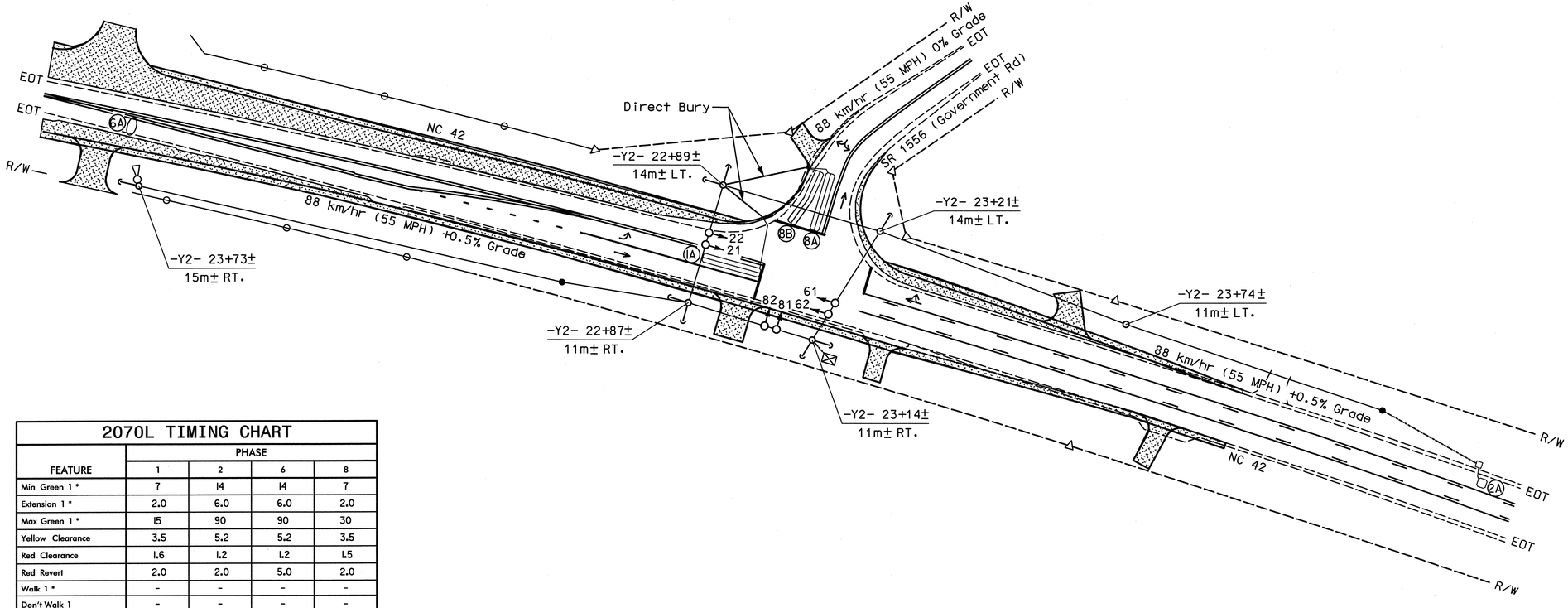
2070L LOOP & DETECTOR INSTALLATION												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (M)	DISTANCE FROM STOPBAR (M)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
IA	1.8x12	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
					6	Y	Y	Y	-	3	-	Y
2A	1.8x1.8	130	6	Y	2	Y	Y	-	-	-	-	Y
6A	✳	130	✳	Y	6	Y	Y	-	-	-	-	Y
8A	1.8x12	0	2-4-2	Y	8	Y	Y	-	-	3	-	Y
8B	1.8x12	0	2-4-2	Y	8	Y	Y	-	-	10	-	Y

✳ MICROWAVE DETECTION ZONE

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. Enable back-up protection for phase 6 to allow the controller to clear from phase 2+6 to phase 1 by progressing through an all red display.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.

PLAN QUANTITIES	
Pay Item	Meters
Signal Cable	115
Messenger Cable	335
Loop Lead-in Cable	530



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	
N/A	Fence	
N/A	Guardrail	
	Microwave Detection Zone	
	Out of Pavement Detector	
	Construction Area	N/A

2070L TIMING CHART				
FEATURE	PHASE 1	2	6	8
Min Green 1 *	7	14	14	7
Extension 1 *	2.0	6.0	6.0	2.0
Max Green 1 *	15	90	90	30
Yellow Clearance	3.5	5.2	5.2	3.5
Red Clearance	1.6	1.2	1.2	1.5
Red Revert	2.0	2.0	5.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	2.5	2.5	-
Max Variable Initial *	-	46	46	-
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	-	-	-	-
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.

Temp Signal Design

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609

Traffic Engineering and Safety Systems Branch
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals and Geometrics Section

SCALE 5 0 10
1:500

NC 42
At
SR 1556 (Government Rd)

Division 04 Johnston County S of Clayton

PLAN DATE: November 2004 REVIEWED BY: S.T. Franklin
PREPARED BY: T.R. Terrell REVIEWED BY: C.A. Johnson

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028657 ENGINEER SPENCER T. FRANKLIN

SIGNATURE 1-26-05 DATE

SIG. INVENTORY NO. 04-1318T