PROJECT REFERENCE NO.	SHEET NO.
B-3879	Sig.4

PHASING DIAGRAM

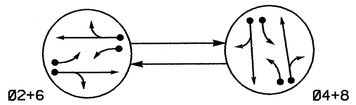


TABLE OF OPERATION			
SIGNAL FACE	PHASE Ø2+6	PHASE Ø4+8	FLASH
21, 22	G	R	Y
41, 42	R	G	R
61, 62	G	R	Y
81, 82	R	G	R

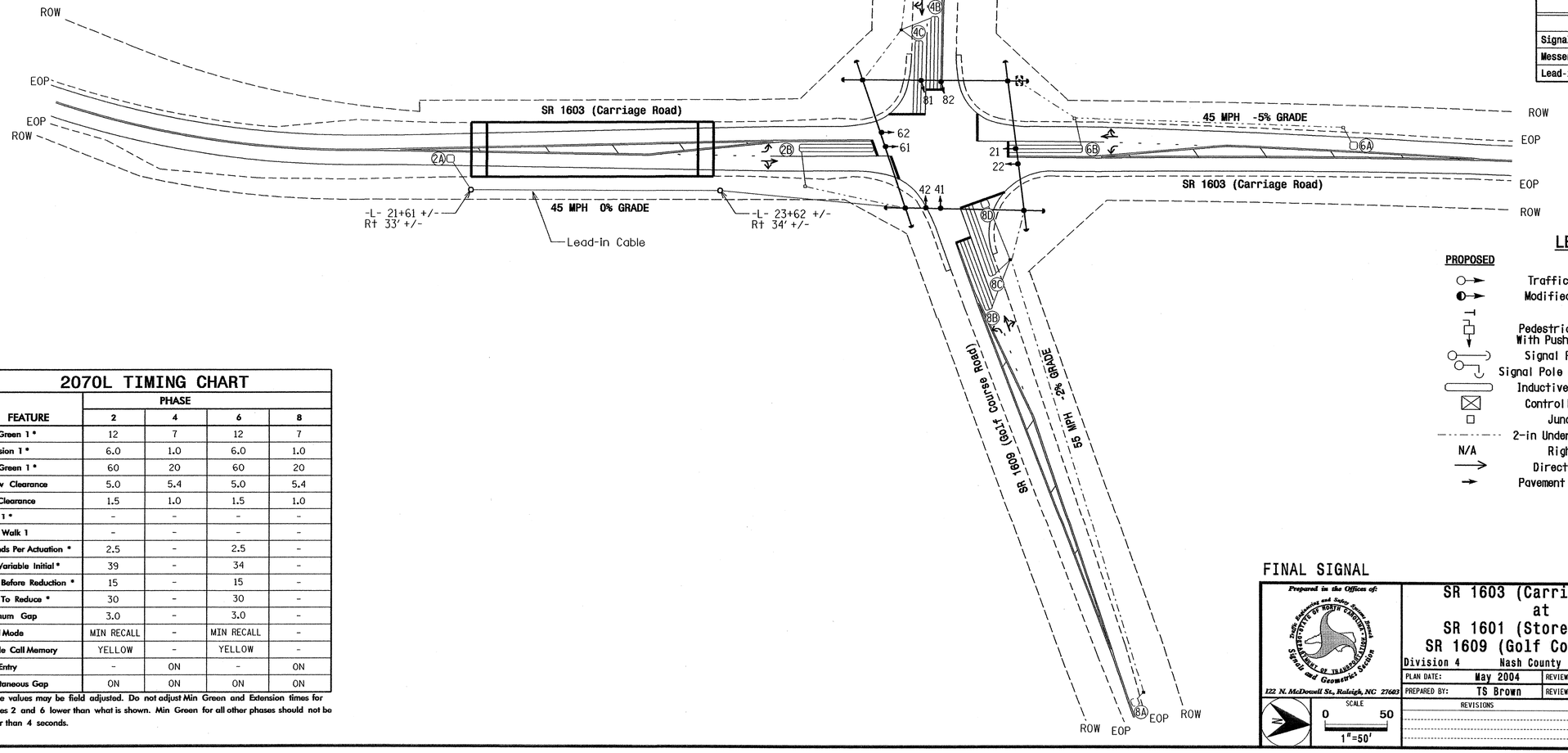
PHASING DIAGRAM DETECTION LEGEND

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

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	5	350	Y	2	Y	Y	-	-	-	-	Y
2B	6X60	2-4-2	0	Y	2	Y	Y	Y	-	-	3	Y
4A	6X6	5	420	-	4	-	Y	-	-	4.0	-	-
4B	6X60	2-4-2	0	Y	4	Y	Y	-	-	-	3	-
4C	6X60	2-4-2	0	Y	4	Y	Y	-	-	-	10	Y
6A	6X6	5	300	Y	6	Y	Y	-	-	-	-	Y
6B	6X60	2-4-2	0	Y	6	Y	Y	Y	-	-	3	Y
8A	6X6	5	420	-	8	-	Y	-	-	4.0	-	-
8B	6X60	2-4-2	0	Y	8	Y	Y	-	-	-	3	-
8C	6X60	2-4-2	0	Y	8	Y	Y	-	-	-	10	-
8D	6X6	4	0	Y	8	Y	Y	-	-	-	15	Y

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. Set all detector units to presence mode.

PLAN QUANTITIES

Pay Item	Feet
Signal Cable	–
Messenger Cable	–
Lead-in Cable	1400

2070L TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1 *	12	7	12	7
Extension 1 *	6.0	1.0	6.0	1.0
Max Green 1 *	60	20	60	20
Yellow Clearance	5.0	5.4	5.0	5.4
Red Clearance	1.5	1.0	1.5	1.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	2.5	-	2.5	-
Max Variable Initial *	39	-	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	-	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	■
·-·-·	2-in Underground Conduit	·-·-·
N/A	Right of Way	– – –
→	Directional Arrow	→
→	Pavement Marking Arrow	→

FINAL SIGNAL

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

SCALE 0 50 1"=50'

SR 1603 (Carriage Road) at SR 1601 (Store Road) & SR 1609 (Golf Course Road)

Division 4 Nash County Red Oak

PLAN DATE: May 2004 REVIEWED BY:
PREPARED BY: TS Brown REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS
SIGNATURE 5/24/04 DATE

SIG. INVENTORY NO. 04-1030

26-MAY-2004 15:17
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tsbrown