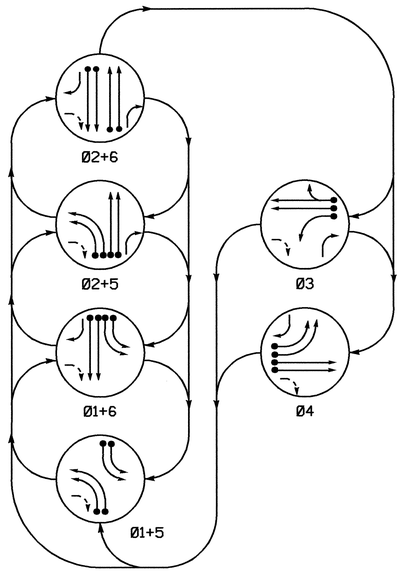
METRIC	PROJECT REFERENCE NO.	SHEET NO.
	U-2912	Sig.2

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03	04	FLASH
11, 12	←	←	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
21	R	R	G	G	R	R	Y
22	R	R	G	G	R/←	R	Y
31	R	R	R	R	G ←	R	R
32	R	R	R	R	G	R	R
41, 42	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	←	~~R~~
43, 44	R	R	R	R	R	G	R
51, 52	←	~~R~~	←	~~R~~	~~R~~	~~R~~	~~R~~
61	R	G	R	G	R	R	Y
62	R	G	R	G	R	R/←	Y

SIGNAL FACE I.D.

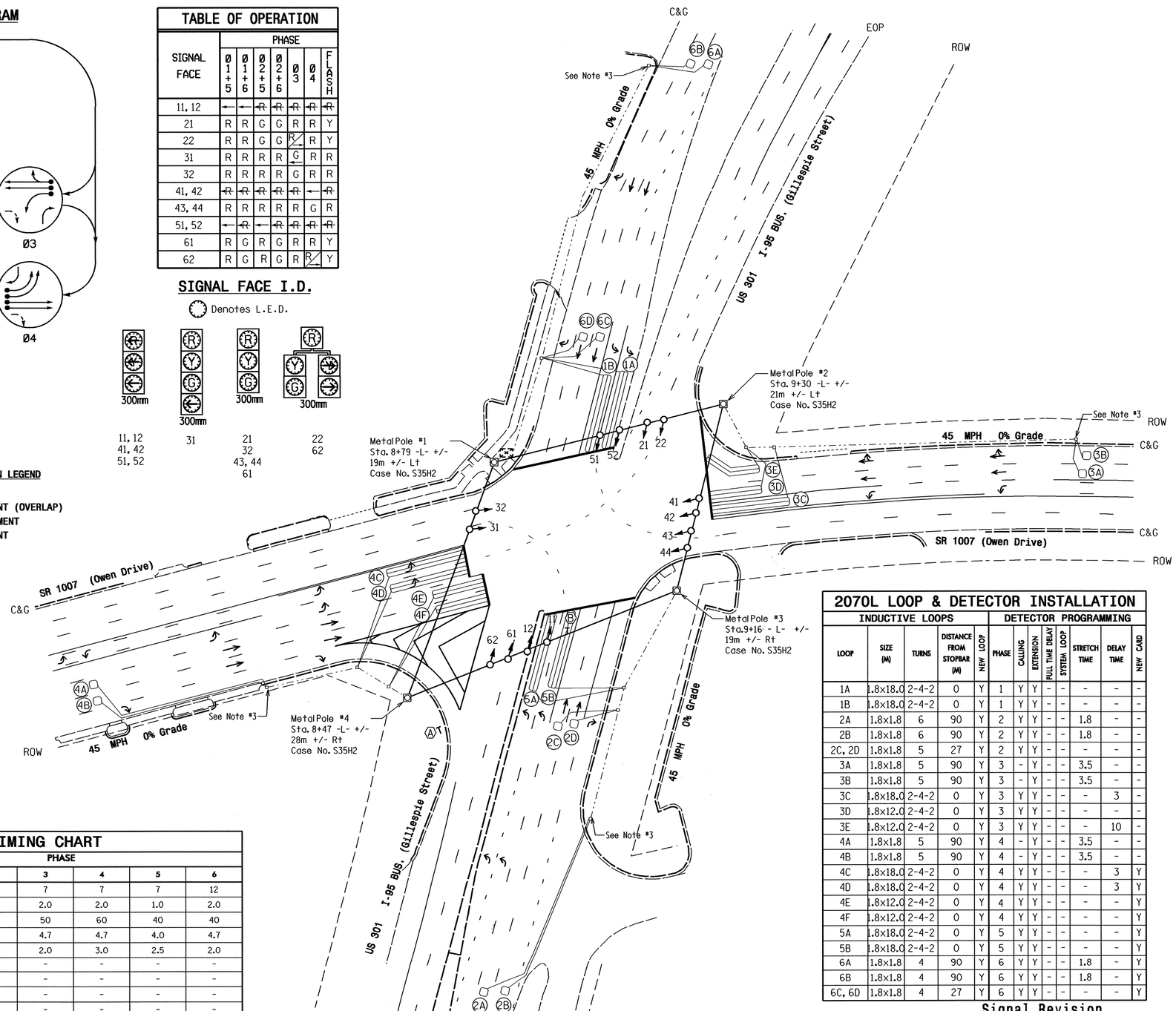
Denotes L.E.D.

11, 12
41, 42
51, 52

31

21
32
43, 44
61

22
62



6 Phase
Fully Actuated
Fayetteville Signal System

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. Run all lead-in cable overhead on existing utility poles where possible.
4. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
5. During coordination, phase 1 or phase 5 may be lagged.
6. During coordination, the order of phase 3 and phase 4 may be reversed.
7. Set all detector units to presence mode.

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	330
Messenger Cable	220
Lead-in Cable	570

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
1A	1.8x18.0	2-4-2	0	Y	1	Y	Y	-	-	-	-	-
1B	1.8x18.0	2-4-2	0	Y	1	Y	Y	-	-	-	-	-
2A	1.8x1.8	6	90	Y	2	Y	Y	-	-	1.8	-	-
2B	1.8x1.8	6	90	Y	2	Y	Y	-	-	1.8	-	-
2C, 2D	1.8x1.8	5	27	Y	2	Y	Y	-	-	-	-	-
3A	1.8x1.8	5	90	Y	3	-	Y	-	-	3.5	-	-
3B	1.8x1.8	5	90	Y	3	-	Y	-	-	3.5	-	-
3C	1.8x18.0	2-4-2	0	Y	3	Y	Y	-	-	-	3	-
3D	1.8x12.0	2-4-2	0	Y	3	Y	Y	-	-	-	-	-
3E	1.8x12.0	2-4-2	0	Y	3	Y	Y	-	-	-	10	-
4A	1.8x1.8	5	90	Y	4	-	Y	-	-	3.5	-	-
4B	1.8x1.8	5	90	Y	4	-	Y	-	-	3.5	-	-
4C	1.8x18.0	2-4-2	0	Y	4	Y	Y	-	-	-	3	Y
4D	1.8x18.0	2-4-2	0	Y	4	Y	Y	-	-	-	3	Y
4E	1.8x12.0	2-4-2	0	Y	4	Y	Y	-	-	-	-	Y
4F	1.8x12.0	2-4-2	0	Y	4	Y	Y	-	-	-	-	Y
5A	1.8x18.0	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
5B	1.8x18.0	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
6A	1.8x1.8	4	90	Y	6	Y	Y	-	-	1.8	-	Y
6B	1.8x1.8	4	90	Y	6	Y	Y	-	-	1.8	-	Y
6C, 6D	1.8x1.8	4	27	Y	6	Y	Y	-	-	-	-	Y

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	
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ
Ⓑ	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓑ

This Plan Shall Supersede The Plan Signed and Sealed on 6/21/04.

2070L TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1 *	1.0	2.0	2.0	2.0	1.0	2.0
Max Green 1 *	20	40	50	60	40	40
Yellow Clearance	4.0	4.7	4.7	4.7	4.0	4.7
Red Clearance	2.0	2.0	2.0	3.0	2.5	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	-	-	-	-	-	-
Simultaneous Gap	ON	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 Revision

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
Signals and Geometrics Section
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
1122 N. McDowell St., Raleigh, NC 27603

US 301/I-95 Business (Gillespie Street) at SR 1007 (Owen Drive)

Division 06 Cumberland County Fayetteville

PLAN DATE:	June 2004	REVIEWED BY:	JP Galloway
PREPARED BY:	TS Brown	REVIEWED BY:	

SCALE 1:500 (5 0 10)

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS

SIGNATURE Timothy J. Williams DATE 9/29/04

SIG. INVENTORY NO. 06-0051

23-SEP-2004 09:13
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cjcollins