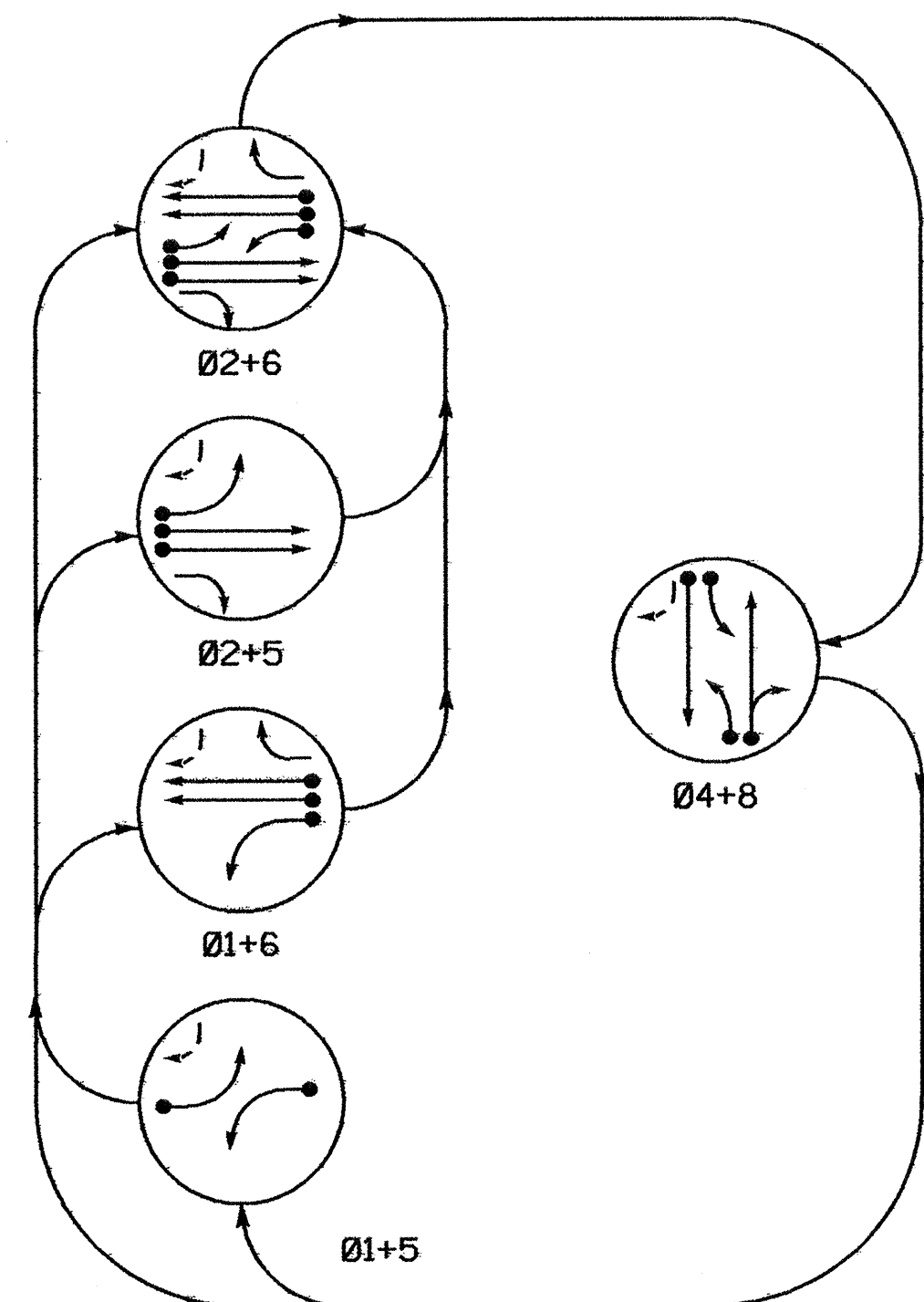


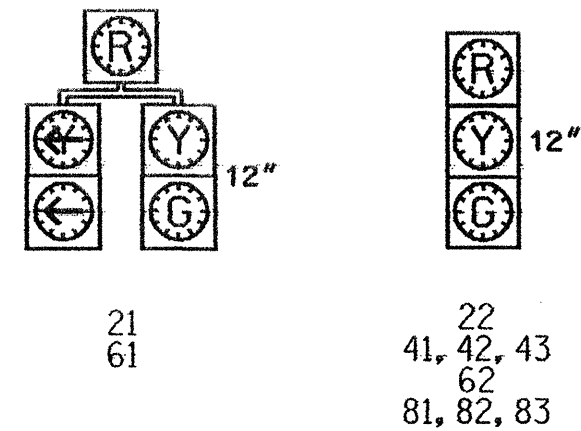
PHASING DIAGRAM



SIGNAL FACE	PHASE					FLASH
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	
21	R	R	G	G	R	Y
22	R	R	G	G	R	Y
41, 42, 43	R	R	R	R	G	R
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y
81, 82, 83	R	R	R	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	DETECTOR PROGRAMMING						NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	
1A	6X60	2-4-2	0	Y	1	Y	Y	-	-	20	-
2A	6X6	6	420	Y	2	Y	Y	-	2.3	-	-
2B	6X6	5	110	Y	2	Y	Y	-	-	-	-
4A	6X60	2-4-2	+5	Y	4	Y	Y	-	-	3	-
4B	6X60	2-4-2	0	Y	4	Y	Y	-	-	-	-
5A	6X60	2-4-2	+5	Y	5	Y	Y	-	-	20	-
6A	6X6	6	420	Y	6	Y	Y	-	2.3	-	-
6B	6X6	5	110	Y	6	Y	Y	-	-	-	-
8A	6X60	2-4-2	+5	Y	8	Y	Y	-	-	3	-
8B	6X60	2-4-2	0	Y	8	Y	Y	-	-	3	-

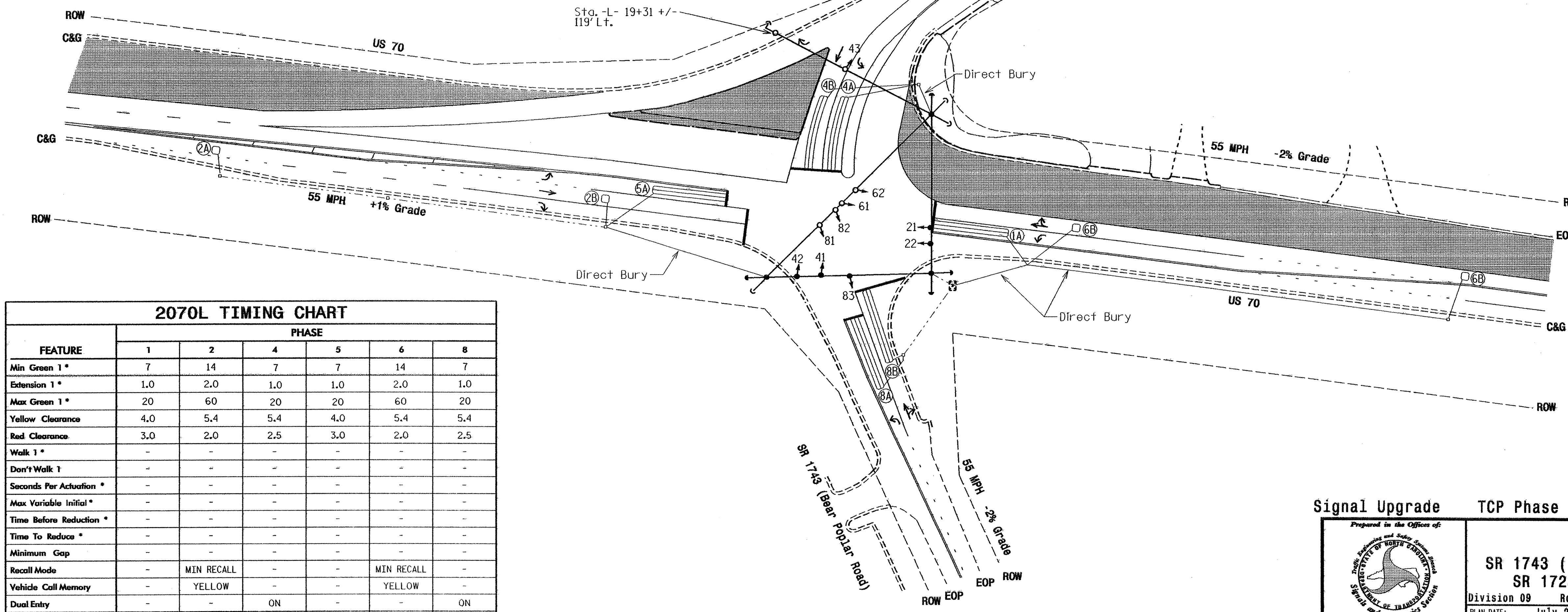
5 Phase Fully Actuated Isolated

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. Reposition existing signal heads numbered 21, 22, 41, and 42.
4. Omit phase 1 during phase 2 on.
5. Omit phase 5 during phase 6 on.
6. Program controller to clear from phase 2+6 to phase 1 and/or 5 by progressing through phase 4+8 (see Electrical Details).
7. Set all detector units to presence mode.

PHASING DIAGRAM DETECTION LEGEND

- ← ● ← DETECTED MOVEMENT
- ← ○ ← UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ← - - - PEDESTRIAN MOVEMENT



PLAN QUANTITIES	
Pay Item	Feet
Signal Cable	550
Messenger Cable	330
Lead-in Cable	1360

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 | → → |
| → → Construction Zone | → → |
| ⊙ → "SIGNAL AHEAD" Sign (W3-3) | ⊙ → |

2070L TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1*	7	14	7	7	14	7
Extension 1*	1.0	2.0	1.0	1.0	2.0	1.0
Max Green 1*	20	60	20	20	60	20
Yellow Clearance	4.0	5.4	5.4	4.0	5.4	5.4
Red Clearance	3.0	2.0	2.5	3.0	2.0	2.5
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	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 TCP Phase II

	Prepared in the Office of US 70 at SR 1743 (Bear Poplar Road) & SR 1723 (Main Street)		
	Division 09 PLAN DATE: July 2004 PREPARED BY: TS Brown	Rowan County REVIEWED BY: JP Galloway REVIEWED BY:	
SCALE 0 50 1"=50'		REVISIONS: INIT. DATE	
Signature: <i>Timothy J. Williams</i> 7/20/04 DATE:		S.G. INVENTORY NO. 09-1115 T2	