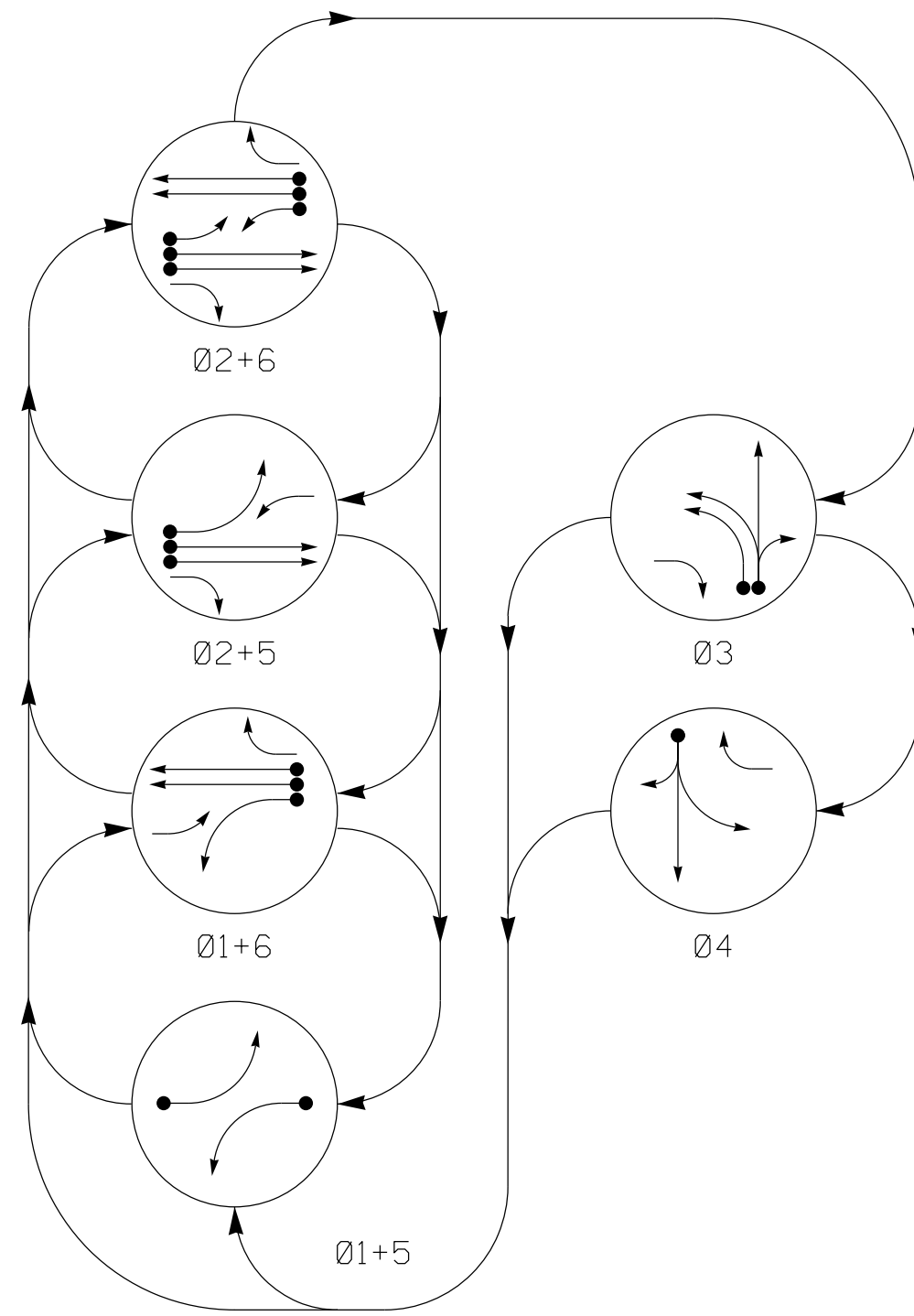


6 Phase Fully Actuated (US 70 (Burlington Rd.) Closed Loop System) Signal System #: 10712

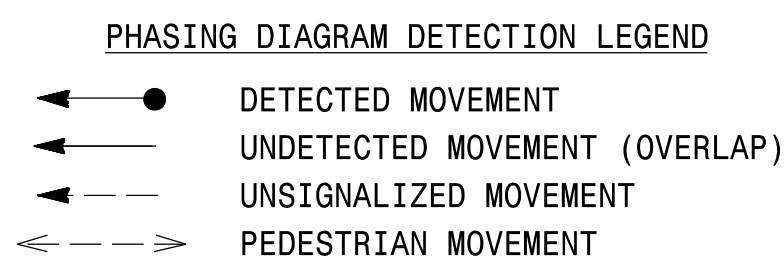
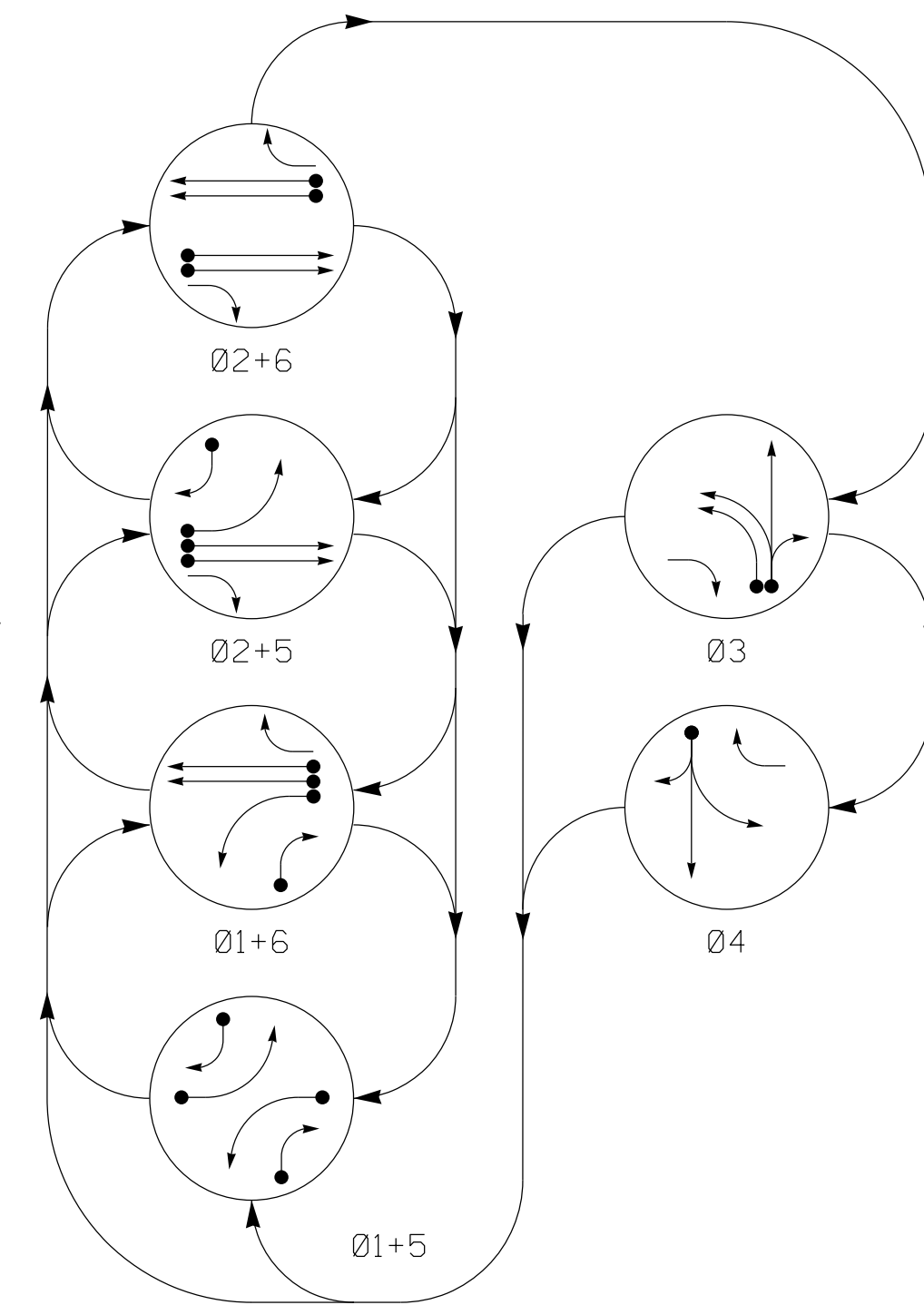
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. The order of phase 3 and 4 may be reversed.
5. Set all detector units to presence mode.
6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
7. Maximum times show in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Closed loop system data: Conroller Asset#: 1708.

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



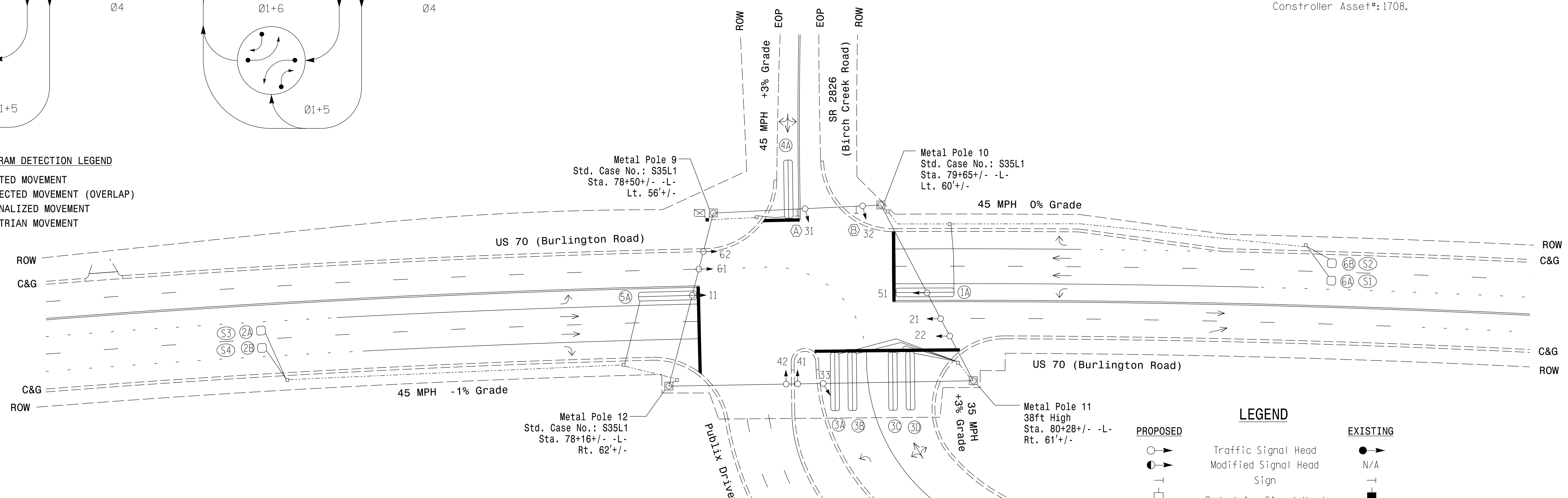
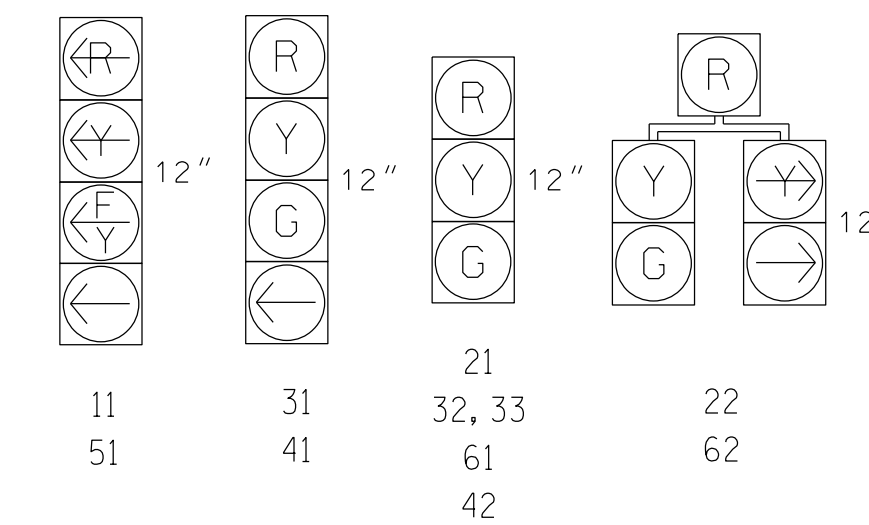
DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11	←	←	←	←	←	←
21	R	R	G	G	R	R
22	R	R	G	G	R	R
31	R	R	R	R	G	R
32, 33	R	R	R	R	G	R
41	R	R	R	R	R	G
42	R	R	R	R	R	G
51	←	←	←	←	←	←
61	R	G	R	G	R	R
62	R	G	R	G	R	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11	←	←	←	←	←	←
21	R	R	G	G	R	R
22	R	R	G	G	R	R
31	R	R	R	R	G	R
32, 33	R	R	R	R	G	R
41	R	R	R	R	R	G
42	R	R	R	R	R	G
51	←	←	←	←	←	←
61	R	G	R	G	R	R
62	R	G	R	G	R	R

SIGNAL FACE I.D.



ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max I *	20	120	30	30	20	120
Yellow	3.0	4.6	4.3	4.3	3.0	4.6
Red Clear	2.9	2.1	2.4	2.0	3.1	2.1
Actuations B4 Add *	-	-	-	-	-	-
Seconds / Actuation *	-	2.5	-	-	-	2.5
Max Initial *	-	34	-	-	-	34
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	60	-	-	-	60
Minimum Gap	-	3.0	-	-	-	3.0
Locking Detector	-	X	-	-	-	X
Recall Position	-	VEH RECALL	-	-	-	VEH RECALL
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X

ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	X	1	Yes	-	15*	-	S	-	X
2A/S3	6X6	300	5	X	2	Yes	-	3	-	G	-	X
2B/S4	6X6	300	5	X	2	Yes	-	-	X	N	X	X
3A	6X40	0	2-4-2	X	3	Yes	-	-	-	S	-	X
3B	6X40	0	2-4-2	X	3	Yes	-	-	-	S	-	X
3C	6X40	0	2-4-2	X	3	Yes	-	-	-	S	-	X
3D	6X40	0	2-4-2	X	3	Yes	-	-	-	S	-	X
4A	6X40	0	2-4-2	X	4	Yes	-	5	-	S	-	X
5A	6X40	0	2-4-2	X	5	Yes	-	15*	-	S	-	X
6A/S1	6X6	300	5	X	6	Yes	-	3	-	G	-	X
6B/S2	6X6	300	5	X	6	Yes	-	-	X	N	X	X

* Reduce delay to 3 seconds during Alternate Phasing Operation.
Disable phase call for loop(s) during Alternate Phasing Operation.



Signal Upgrade-Final Design

US 70 (Burlington Rd) at SR 2826 (Birch Creek Rd) and Public Driveway

Division 7 Guilford County McLeansville

PLAN DATE: September 2019 REVIEWED BY: M. Stygles

PREPARED BY: J. Ma REVIEWED BY:

SCALE: 1"=40'

10/16/2019

910-829-0328

