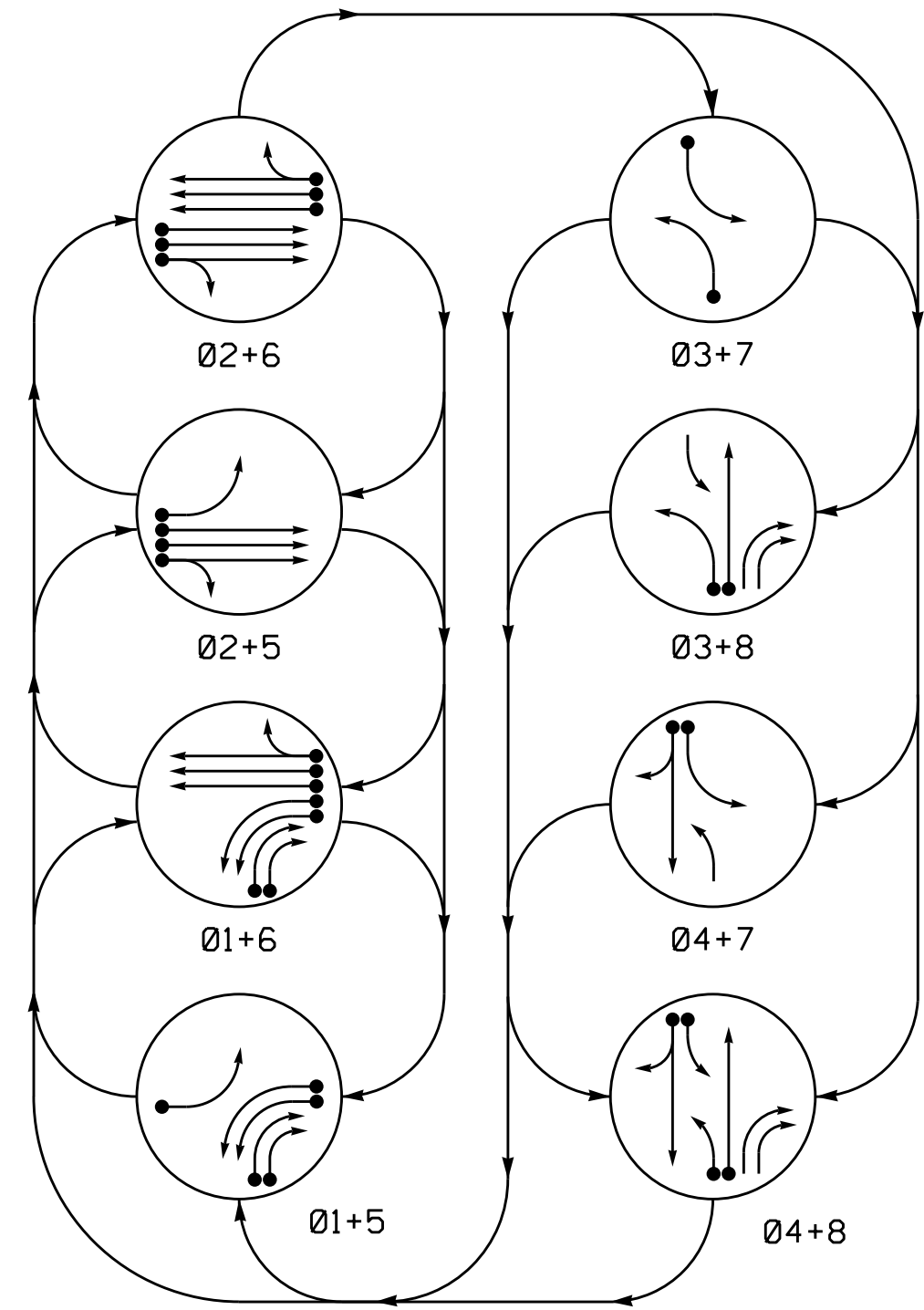
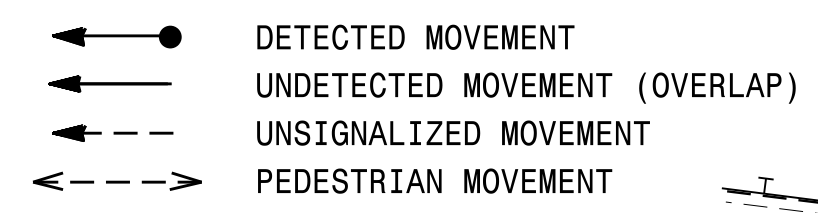


PHASING DIAGRAM

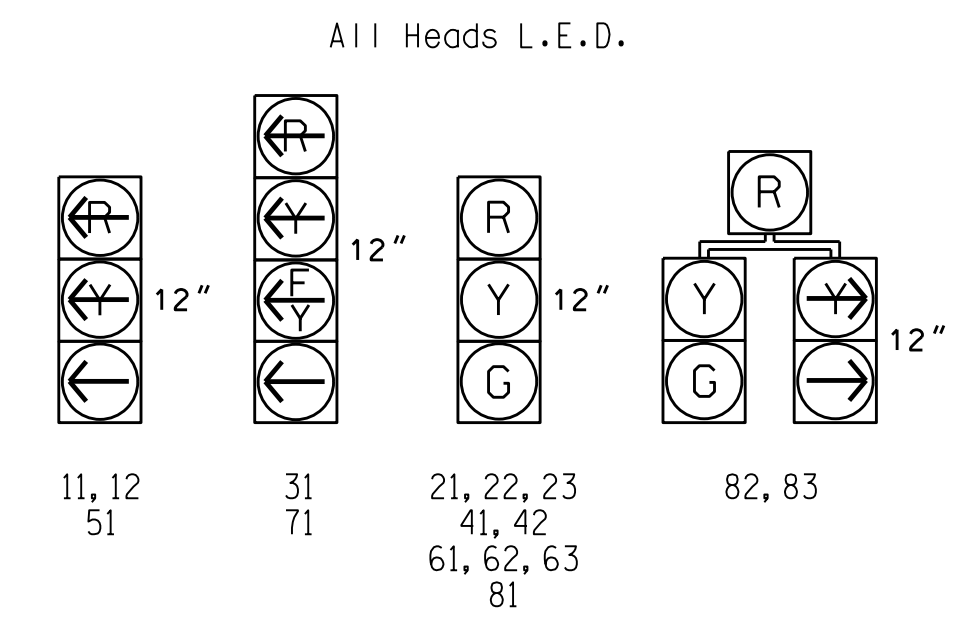


PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE	PHASE								
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	FLASH
11, 12	-	-	-	-	-	-	-	-	-
21, 22, 23	R	R	G	G	R	R	R	R	Y
31	-	-	-	-	-	-	-	-	-
41, 42	R	R	R	R	R	R	G	G	R
51	-	-	-	-	-	-	-	-	-
61, 62, 63	R	G	R	G	R	R	R	R	Y
71	-	-	-	-	-	-	-	-	-
81	R	R	R	R	R	G	R	G	R
82, 83	R	R	R	R	R	G	R	G	R

SIGNAL FACE I.D.

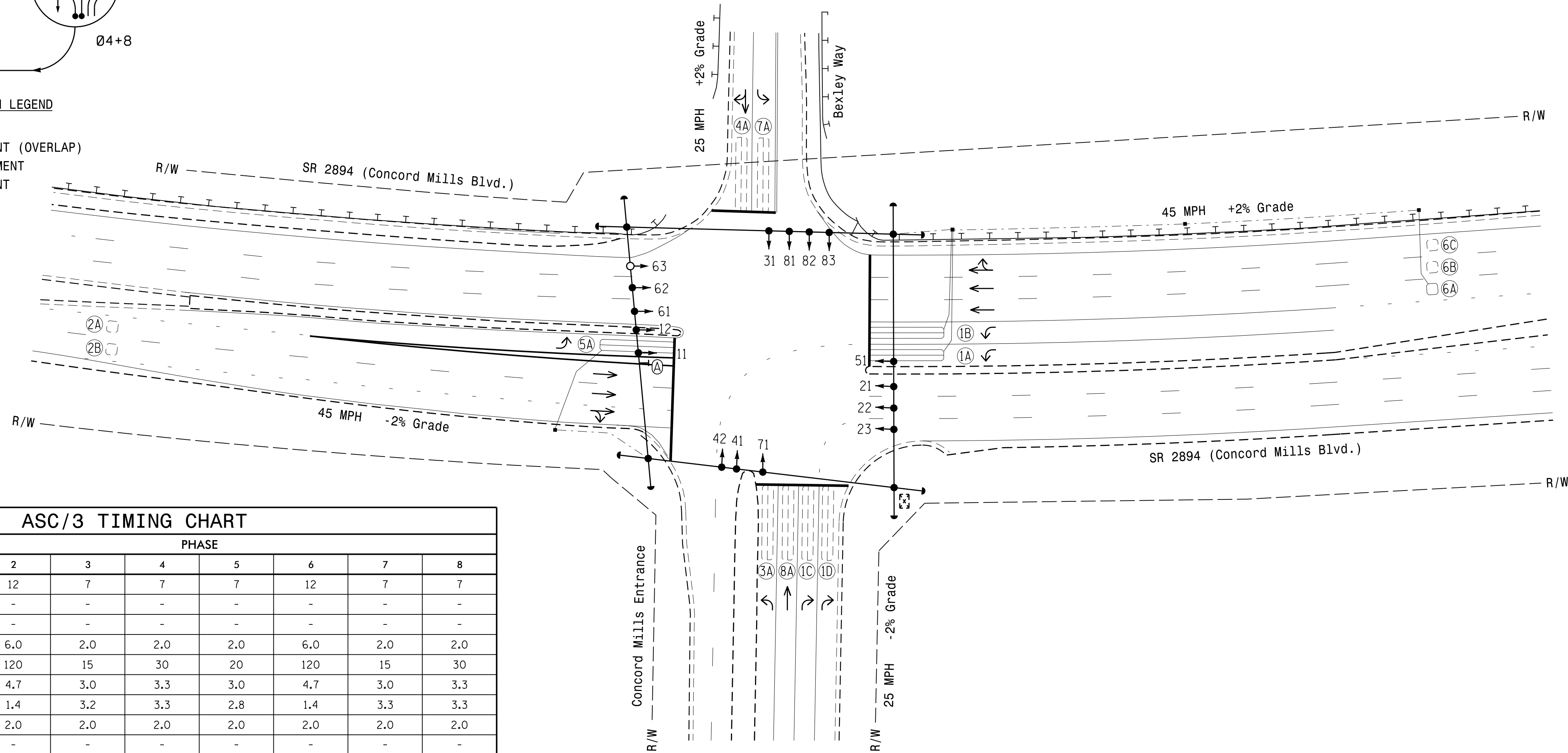


ASC/3 DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	LOOP SYSTEM	NEW CARD
1A	6X40	0	2-4-2	Y	1	Yes	-	-	S	-	-
1B	6X40	0	2-4-2	Y	1	Yes	-	-	S	-	-
1C	6X40	0	2-4-2	-	1	Yes	-	15	S	-	-
1D	6X40	0	2-4-2	-	1	Yes	-	15	S	-	-
2A	6X6	300	EXIST	-	2	Yes	-	-	S	-	-
2B	6X6	300	EXIST	-	2	Yes	-	-	S	-	-
3A	6X40	0	2-4-2	-	3	Yes	-	15	S	-	-
4A	6X40	0	2-4-2	-	4	Yes	-	10	S	-	-
5A	6X40	0	2-4-2	Y	5	Yes	-	-	S	-	-
6A	6X6	300	5	Y	6	Yes	-	-	S	-	-
6B	6X6	300	5	-	6	Yes	-	-	S	-	-
6C	6X6	300	5	-	6	Yes	-	-	S	-	-
7A	6X40	0	2-4-2	-	7	Yes	-	15	S	-	-
8A	6X40	0	2-4-2	-	8	Yes	-	3	S	-	-

8 Phase Fully Actuated Concord Mills Blvd. CLS

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
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. Phase 3 and/or phase 7 may be lagged.
5. Reposition existing signal heads numbered 11, 12, 51, 61, and 62.
6. Set all detector units to presence mode.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Closed loop system data: Controller Asset #: 1733



FEATURE	ASC/3 TIMING CHART							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max 1 *	45	120	15	30	20	120	15	30
Yellow	3.0	4.7	3.0	3.3	3.0	4.7	3.0	3.3
Red Clear	3.3	1.4	3.2	3.3	2.8	1.4	3.3	3.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	1.5	-	-	-	1.5	-	-
Max Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL	-	-
Dual Entry	-	-	X	-	-	-	-	X
Simultaneous Gap	X	X	X	X	X	X	X	X

* 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
	N/A

Signal Upgrade - Final Design

SR 2894 (Concord Mills Blvd.) at Concord Mills Entrance/ Bexley Way

Divison 10 Cabarrus County Concord

PLAN DATE: August 2017 REVIEWED BY: T.J. Williams

PREPARED BY: R.N. Zinser REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1" = 40'

REVISIONS: INIT. DATE

SEAL: R.N. Zinser, Professional Engineer, No. 043914, State of North Carolina

DATE: 9/25/2017

SIG. INVENTORY NO. 10-1733