

6 Phase Fully Actuated (Isolated)

PHASING DIAGRAM

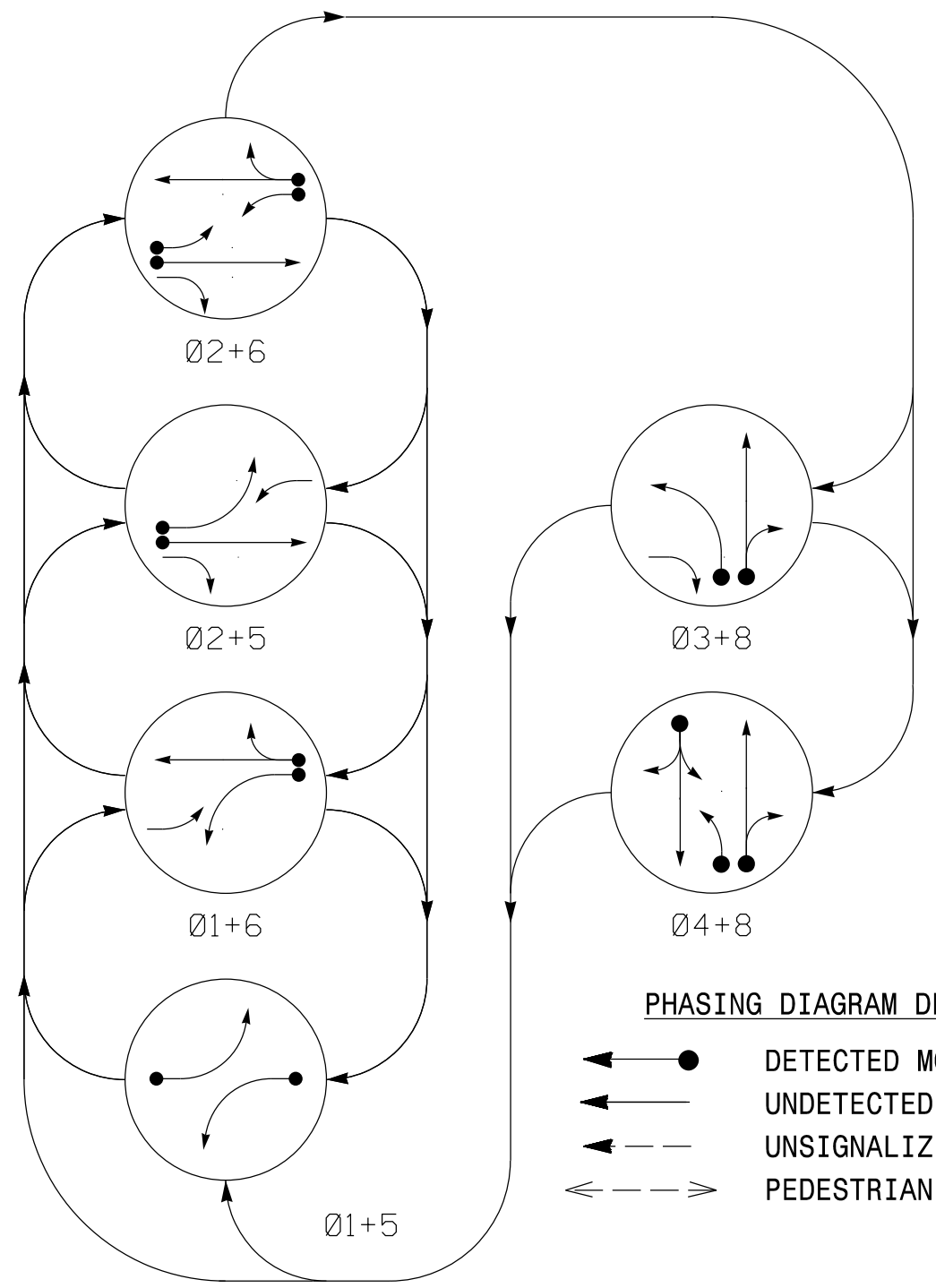
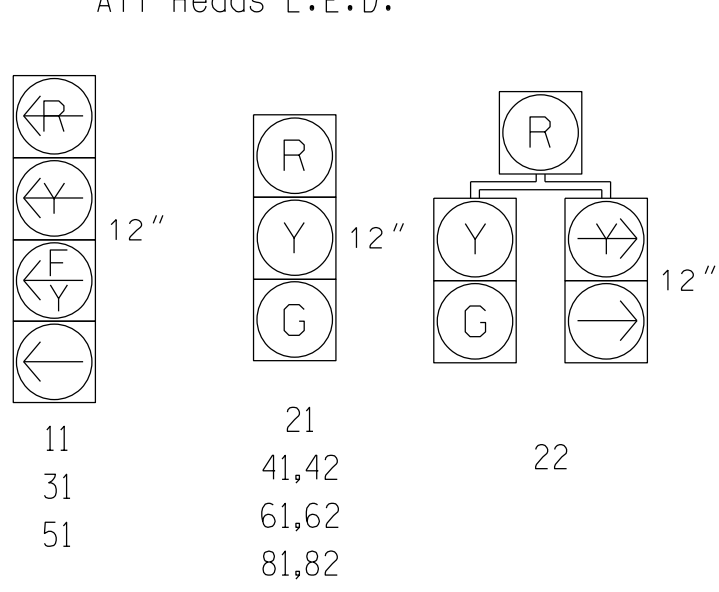


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3 + 8	Ø 4 + 8	F	H
11	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	Y	Y
22	R	R	R	G	R	R	Y	Y
31	←	←	←	←	←	←	←	←
41,42	R	R	R	R	R	G	R	R
51	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	Y	Y
81,82	R	R	R	R	G	G	R	R

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

ZONE	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	*	*	1	Yes	-	15	-	S	-	-
2A*	6X6	300	*	*	2	Yes	-	-	X	N	-	-
3A*	6X40	0	*	*	3	Yes	-	15	-	S	-	-
4A*	6X40	0	*	*	4	Yes	-	5	-	S	-	-
5A*	6X40	0	*	*	5	Yes	-	15	-	S	-	-
6A*	6X6	300	*	*	2	Yes	-	3	-	G	-	-
8A*	6X40	0	*	*	8	Yes	-	10	-	S	-	-
8B*	6X6	0	*	*	8	Yes	-	15	-	S	-	-

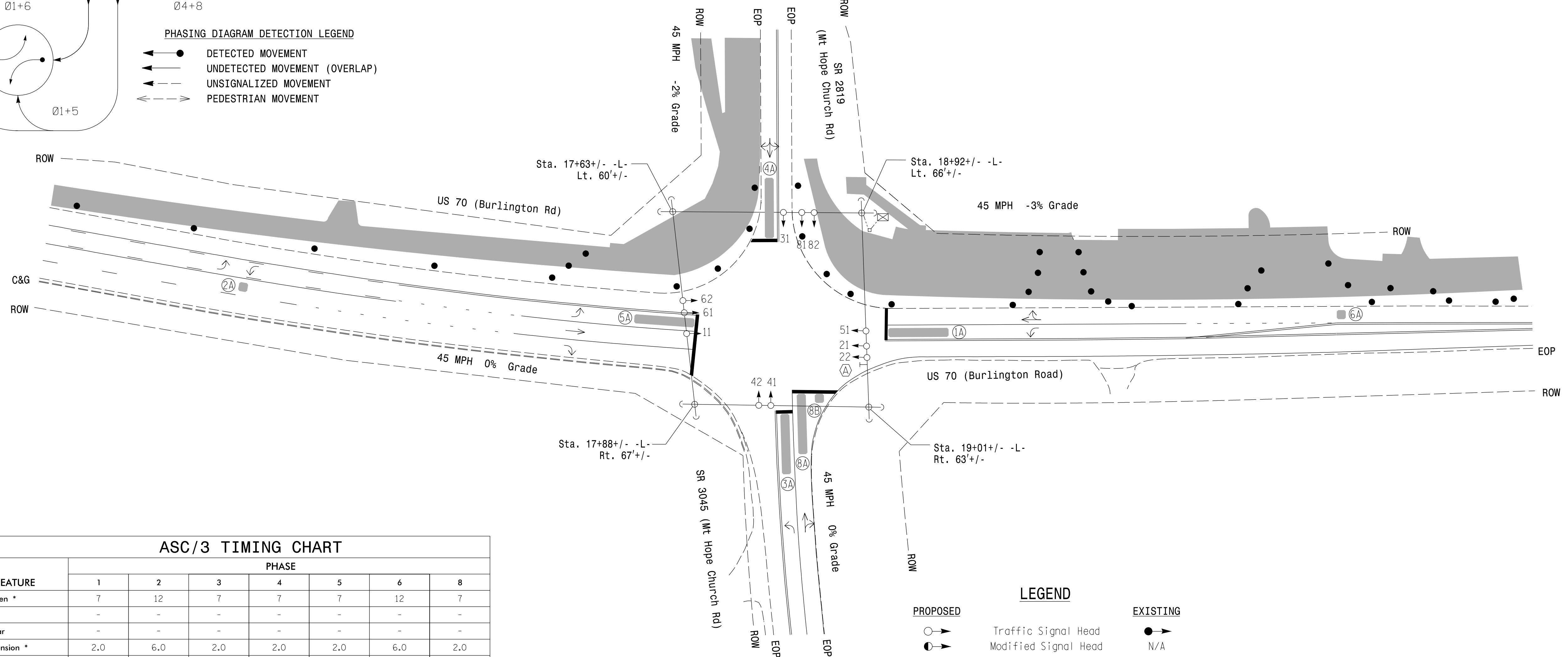
* Video Detection Zone

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. Omit phase 3 during phase 4 on.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Incorporate Video Detection system for vehicle detection.
8. Provide the Engineer with the Manufacturer's approved Video Detection locations and mounting heights to obtain detection zones as shown.

PHASING DIAGRAM DETECTION LEGEND

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



ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	8	
Min Green *	7	12	7	4	7	12	7	
Walk *	-	-	-	-	-	-	-	
Ped Clear	-	-	-	-	-	-	-	
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	
Max 1 *	20	120	15	30	20	120	30	
Yellow	3.0	4.8	3.0	4.7	3.0	4.8	4.5	
Red Clear	2.9	1.3	2.3	1.5	2.1	1.3	1.0	
Actuations B4 Add *	-	-	-	-	-	-	-	
Seconds / Actuation *	-	1.5	-	-	-	1.5	-	
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	-	-	-	X	-	-	X	
Simultaneous Gap	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 |
|-----------------------------------|-----------------------------------|
| ○ Traffic Signal Head | ● Traffic Signal Head |
| ○ Modified Signal Head | ○ Modified Signal Head |
| ○ Pedestrian Signal Head | ○ Pedestrian Signal Head |
| ○ Signal Pole with Guy | ○ Signal Pole with Guy |
| ○ Signal Pole with Sidewalk Guy | ○ Signal Pole with Sidewalk Guy |
| □ Inductive Loop Detector | □ Inductive Loop Detector |
| □ Controller & Cabinet | □ Controller & Cabinet |
| □ Junction Box | □ Junction Box |
| --- 2-in Underground Conduit | --- 2-in Underground Conduit |
| N/A Right of Way | N/A Right of Way |
| → Directional Arrow | → Directional Arrow |
| ▬ Video Detection Zone | N/A Video Detection Zone |
| ▬ Construction Zone | N/A Construction Zone |
| ● Construction Zone Drum | N/A Construction Zone Drum |
| Ⓜ Right Arrow "ONLY" Sign (R3-5R) | Ⓜ Right Arrow "ONLY" Sign (R3-5R) |

Signal Upgrade-Temporary Design 1 (TMP Phase I)

US 70 (Burlington Rd)
at
SR 3045/2819
(Mt Hope Church Rd)

Division 7 Guilford County Greensboro

PLAN DATE: September 2019 REVIEWED BY: M. L. Stygles

PREPARED BY: J. Ma REVIEWED BY:

SCALE 1"=40'

REVISIONS

NO.	DESCRIPTION	INIT.	DATE

SIGNATURE DATE

SIG. INVENTORY NO. 07-0204T1



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL 033108

DATE 9/9/2019