

DEFAULT PHASING DIAGRAM

ALTERNATE PHASING DIAGRAM

LONG VEHICLE EXTENSION FAILURE PREEMPT PHASES

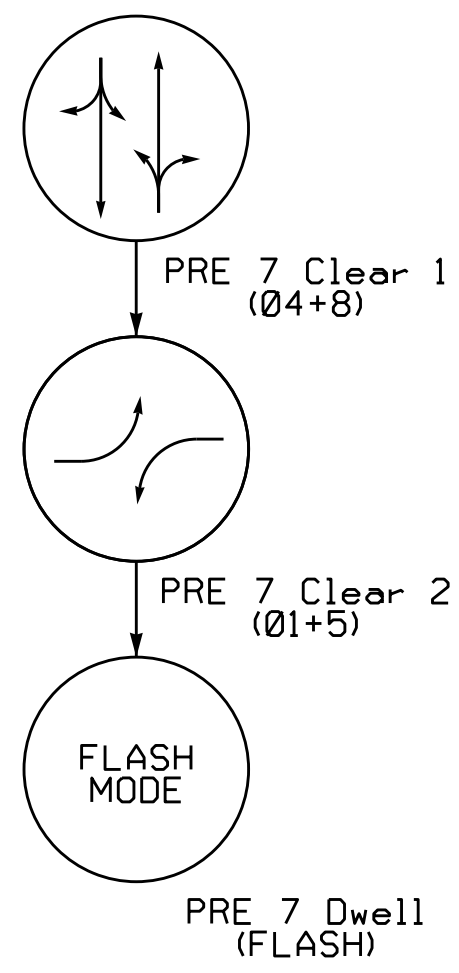
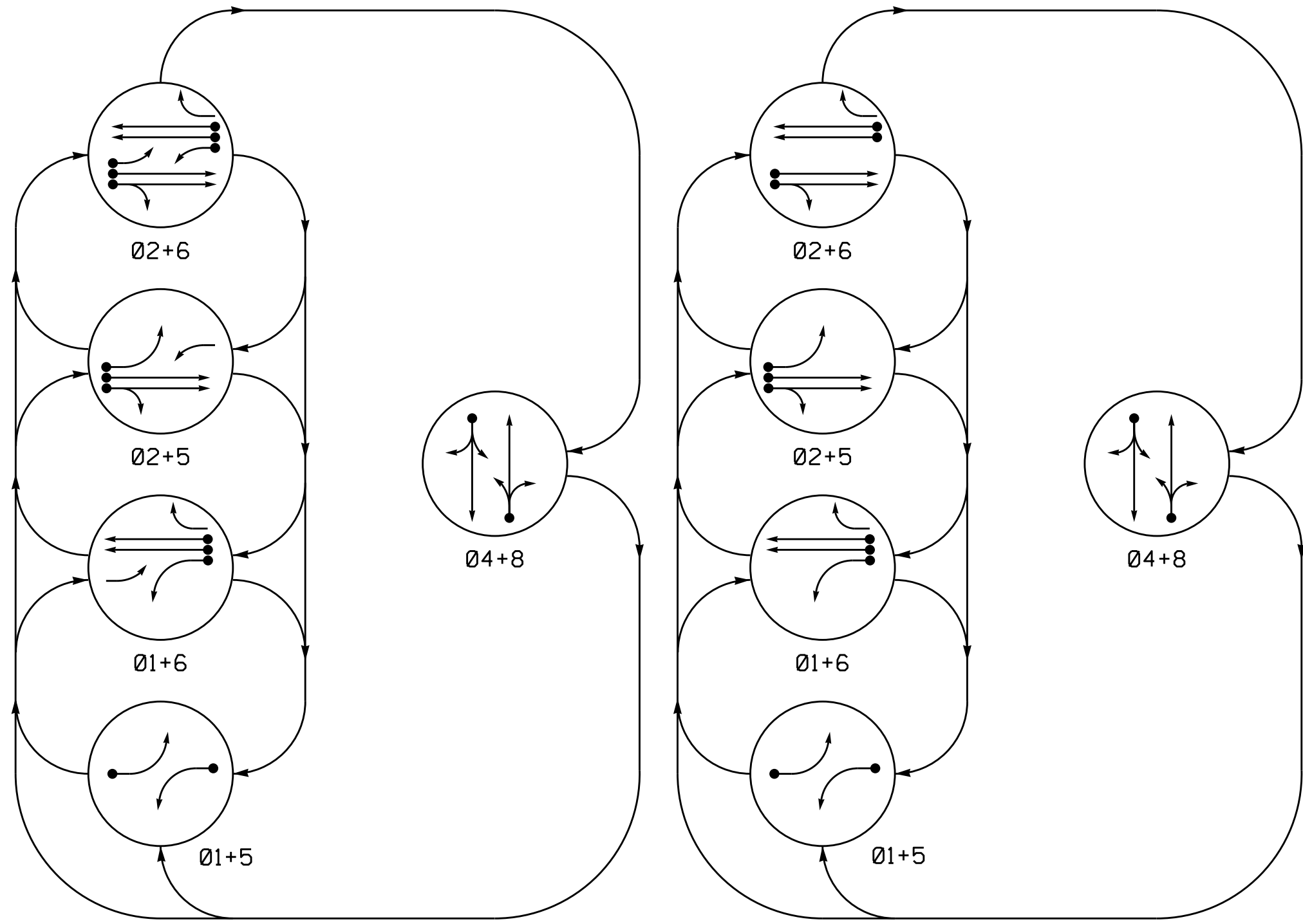
DEFAULT PHASING TABLE OF OPERATION

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

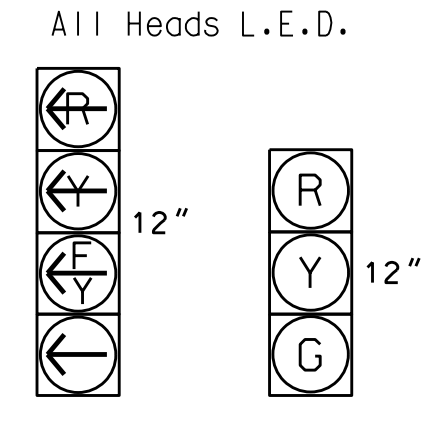
5 Phase Fully Actuated W/ Long Vehicle Detection (Isolated)

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. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
7. Pavement markings are existing.



SIGNAL FACE I.D.

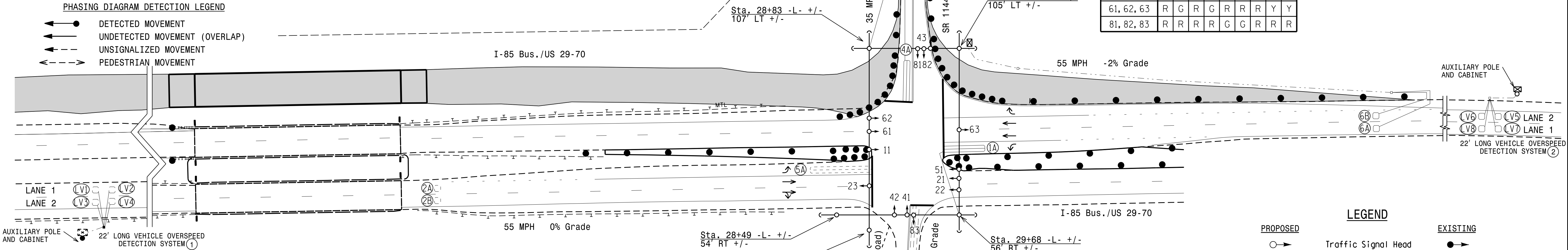


LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM	NEW CARD
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15 *	-	Y
2A	6X6	420	5	-	2	Y	Y	-	-	-	-	Y
2B	6X6	420	5	-	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	10	-	Y
5A	6X60	0	2-4-2	-	5	Y	Y	-	-	15 *	-	Y
6A	6X6	420	5	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	420	5	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	10	-	Y

\* Disable Delay During Alternate Phasing Operation.  
# Disable Phase Call For Loop During Alternate Phasing Operation.

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	02+6	04+8	PRE 7	PRE 7	PRE 7	PRE 7	F
11	-	-	-	-	-	-	-	-
21, 22, 23	R	R	G	G	R	R	R	Y
41, 42, 43	R	R	R	R	G	G	R	R
51	-	-	-	-	-	-	-	-
61, 62, 63	R	G	R	G	R	R	R	Y
81, 82, 83	R	R	R	G	G	R	R	R



LONG VEHICLE EXTENSION FAILURE PREEMPT

FUNCTION	PRE 7
Interval 1 - Green Clear	15
Interval 1 - Yellow Clear	0.0*
Interval 1 - Red Clear	0.0*
Interval 2 - Green Clear	10
Interval 2 - Yellow Clear	0.0*
Interval 2 - Red Clear	0.0*
Interval 3 - Dwell Green	255
Interval 3 - Dwell Yellow	0.0*
Interval 3 - Dwell Red	0.0*
Interval 4 - Exit Green	1
Interval 4 - Yellow	0.0
Interval 4 - Red	0.0
Exit Phase(s)	2+6
Priority	-
Delay Time	0
Min Green Before Pre	14
Ped Clear Before Pre	0
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	14
Flash Dwell Interval?	Y
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-

OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	8		
Min Green 1 *	7	14	7	7	14	7		
Extension 1 *	2.0	6.0	3.0	2.0	6.0	3.0		
Max Green 1 *	20	120	25	25	120	25		
Yellow Clearance	3.0	5.4	4.3	3.0	5.4	3.6		
Red Clearance	2.3	1.0	1.9	2.8	1.0	2.0		
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0		
Walk 1 *	-	-	-	-	-	-		
Don't Walk 1	-	-	-	-	-	-		
Seconds Per Actuation *	-	1.5	-	-	1.5	-		
Max Variable Initial *	-	46	-	-	46	-		
Time Before Reduction *	-	20	-	-	20	-		
Time To Reduce *	-	50	-	-	50	-		
Minimum Gap	-	3.4	-	-	3.4	-		
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-		
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-		
Dual Entry	-	-	ON	-	-	ON		
Simultaneous Gap	ON	ON	ON	ON	ON	ON		

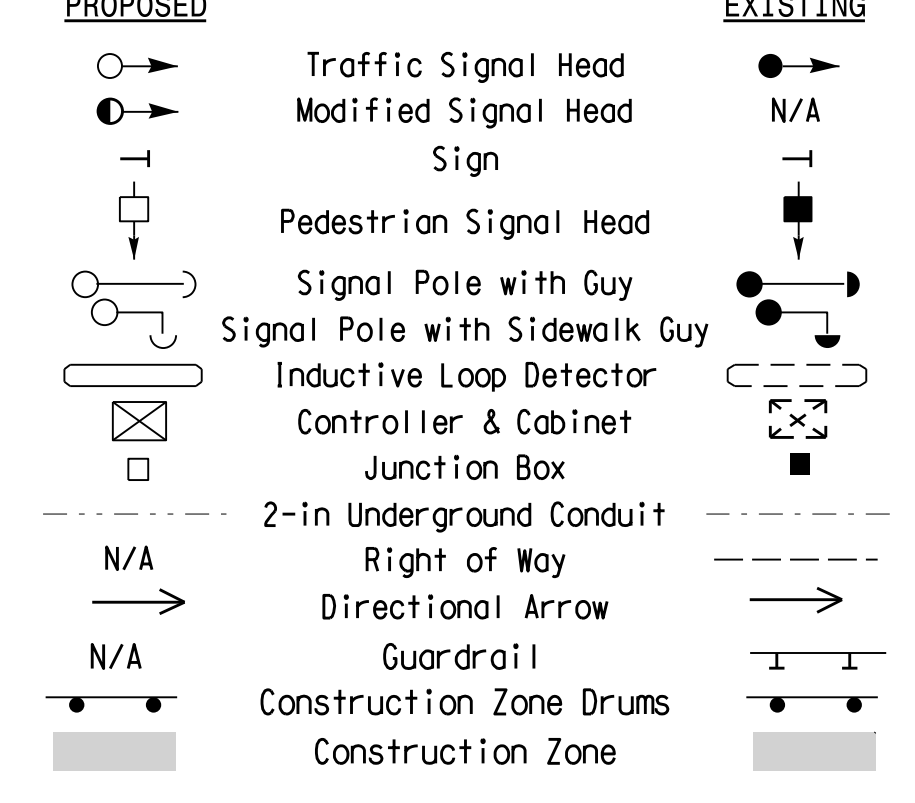
\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LONG VEHICLE OVERSPEED DETECTION SYSTEM LOOP & DETECTOR INSTALLATION CHART

LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	EXISTING	INDUCTIVE LOOP	DETECTOR UNITS	NEMA PHASE	TIMING		PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?
									FEATURE	TIME		
LV1	6X6	4	1015	X		1	1	2*	NONE	- SEC.	ALL	NO
LV2	6X6	4	999	X		1	1	2	NONE	- SEC.	ALL	NO
LV3	6X6	4	1015	X		2	2	2*	NONE	- SEC.	ALL	NO
LV4	6X6	4	999	X		2	2	2	NONE	- SEC.	ALL	NO
LV5	6X6	4	1015	X		1	1	1	NONE	- SEC.	ALL	NO
LV6	6X6	4	999	X		1	1	2	NONE	- SEC.	ALL	NO
LV7	6X6	4	1015	X		2	2	1	NONE	- SEC.	ALL	NO
LV8	6X6	4	999	X		2	2	2	NONE	- SEC.	ALL	NO
LVDS THRESHOLD SPEED (MPH)							55		2	6		
LVDS EXTEND TIME							12 SEC.		2	6		

\*Phase hold output to controller

LEGEND



Signal Upgrade Temporary Design 1 (TMP Phase I)

Prepared in the Offices of:  
  
 Transportation Mobility and Safety Center  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 Signal Design Section

I-85 Bus. /US 29-70 at SR 1144 (River Road)

Division 7 Guilford County Jamestown  
 PLAN DATE: January 2018 REVIEWED BY:  
 PREPARED BY: I. O. Umozurike REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 0 50 1"=50'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 ROBERT J. ZEMBA  
 ENGINEER  
 026486  
 2/7/2018

REVISIONS: \_\_\_\_\_ INIT. DATE

SIG. INVENTORY NO. 07-119111