

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	*	1	Y	Y	-	-	@15	-	*
2A/S16	6X6	355	EXIST	-	2	Y	Y	-	-	-	Y	Y
2B/S17	6X6	355	EXIST	-	2	Y	Y	-	-	-	Y	Y
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	3	-	Y
4A	6X40	0	*	*	4	Y	Y	-	-	-	-	*
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	3	-	Y
5B	6X40	0	*	*	5	Y	Y	-	-	15	-	*
6A/S18	6X6	355	*	*	6	Y	Y	-	-	-	Y	*
6B/S19	6X6	355	*	*	6	Y	Y	-	-	-	Y	*
7A	6X40	0	*	*	7	Y	Y	-	-	3	-	*
7B	6X40	0	*	*	7	Y	Y	-	-	-	-	*
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	10	-	Y

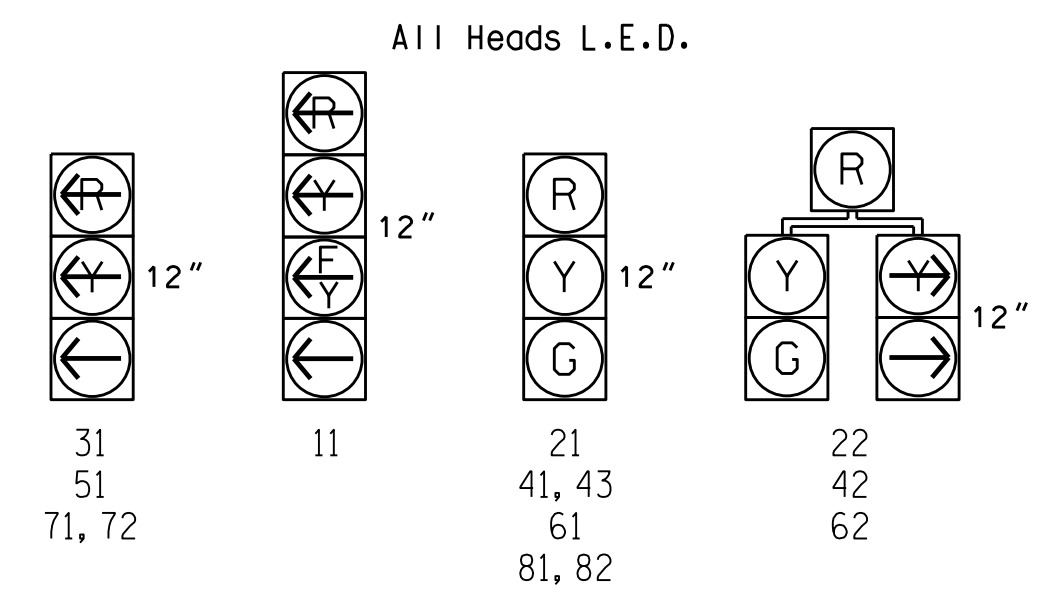
@ Reduce Delay to 3 Seconds During Alternate Phasing Operation.  
 # Disable Phase Call For Loop(s) During Alternate Phasing Operation.  
 \* Video Detection Zone

OASIS 2070 EV PREEMPT				
FUNCTION	PRE 3	PRE 4	PRE 5	PRE 6
Interval 1 - Dwell Green	255	255	255	255
Interval 1 - Dwell Yellow	0.0*	0.0*	0.0*	0.0*
Interval 1 - Dwell Red	0.0*	0.0*	0.0*	0.0*
Interval 5 - Exit Green	1	1	1	1
Interval 5 - Yellow	0.0	0.0	0.0	0.0
Interval 5 - Red	0.0	0.0	0.0	0.0
Exit Phase(s)	2+6	2+6	4+8	4+8
Priority	MED	MED	MED	MED
Delay Time	0.0	0.0	0.0	0.0
Min Green Before Pre	1	1	1	1
Ped Clear Before Pre	0	0	0	0
Yellow Clear Before Pre	0.0*	0.0*	0.0*	0.0*
Red Clear Before Pre	0.0*	0.0*	0.0*	0.0*
Dwell Min Time	7	7	7	7
Dwell Max Time (Minutes)	2	2	2	2
Enable Backup Protection	N	N	N	N
Ped Clear Through Yellow	N	N	N	N
Omit Overlaps	-	-	-	-
Preempt Extend**	2	2	2	2

\* Time defaults to time used for phase during normal operation  
 \*\* Program Timing on Detection Unit

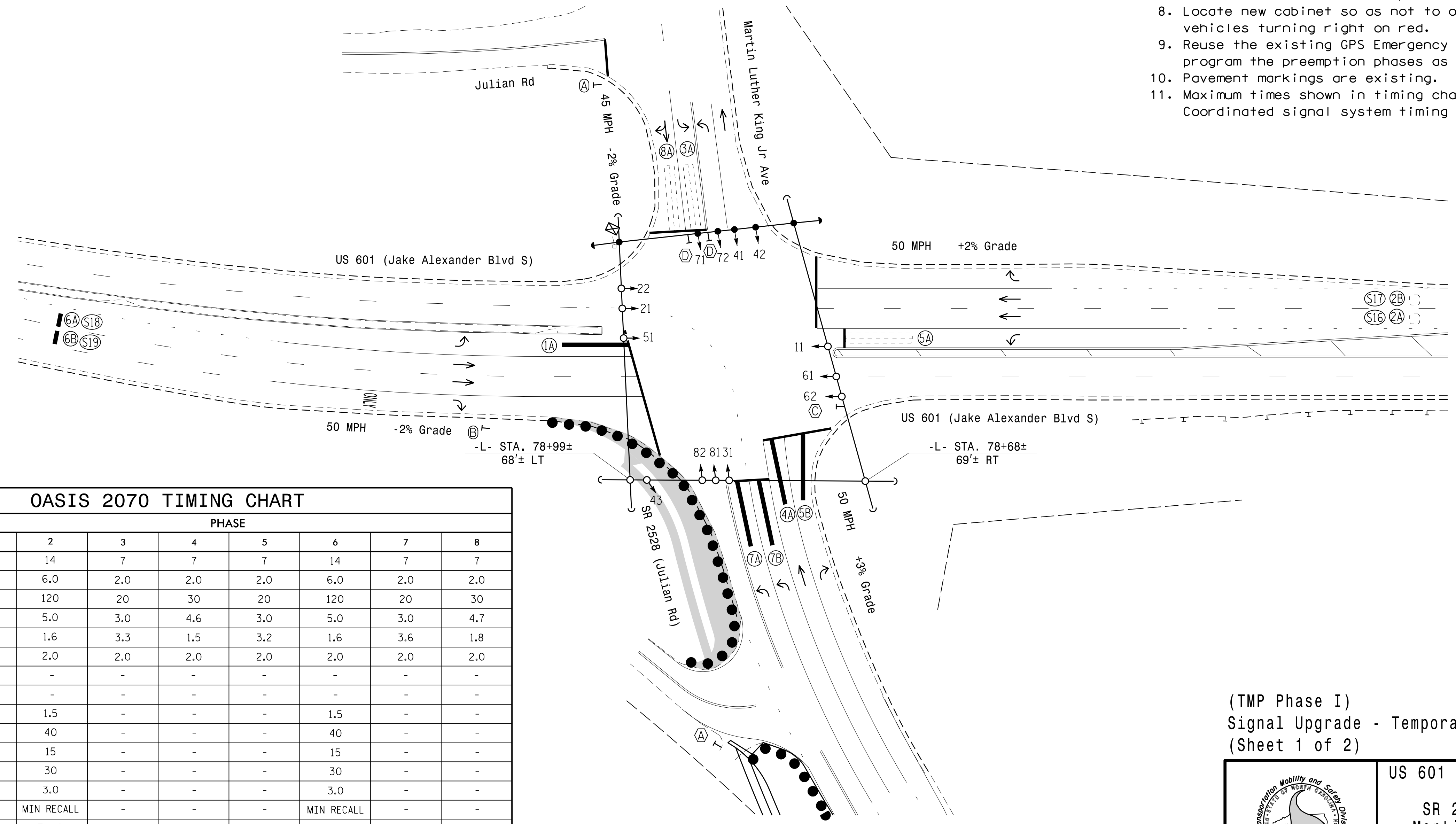
8 Phase Fully Actuated with Emergency Vehicle Preemption (Salisbury Signal System)

SIGNAL FACE I.D.



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. Phase 3 and/or phase 7 may be lagged.
5. Reuse the existing loops and lead-in cables for detectors 2A, 2B, 3A, 5A and 8A.
6. Install a video imaging loop emulator detection system to maintain vehicle detection during construction. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to obtain optimum detection zones as shown.
7. Set all detector units to presence mode.
8. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
9. Reuse the existing GPS Emergency Vehicle Preemption equipment, and program the preemption phases as shown.
10. Pavement markings are existing.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



LEGEND	
PROPOSED	EXISTING
	Traffic Signal Head
	Modified Signal Head
	Pedestrian Signal Head
	Signal Pole with Guy
	Signal Pole with Sidewalk Guy
	Inductive Loop Detector
	Controller & Cabinet
	Junction Box
	2-in Underground Conduit
	Right of Way
	Directional Arrow
	Construction Zone Drums
	Construction Zone
	Video Detection Area
	Guardrail
	"STOP" Sign (R1-1)
	"RIGHT LANE MUST TURN RIGHT" Sign (R3-7R)
	Right Arrow "ONLY" Sign (R3-5R)
	Left Arrow "ONLY" Sign (R3-5L)

OASIS 2070 TIMING CHART								
FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1*	7	14	7	7	7	14	7	7
Extension 1*	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1*	20	120	20	30	20	120	20	30
Yellow Clearance	3.0	5.0	3.0	4.6	3.0	5.0	3.0	4.7
Red Clearance	2.6	1.6	3.3	1.5	3.2	1.6	3.6	1.8
Red Revert	2.0	2.0	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*	-	40	-	-	-	40	-	-
Time Before Reduction*	-	15	-	-	-	15	-	-
Time To Reduce*	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	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.

(TMP Phase I)  
 Signal Upgrade - Temporary Design 1  
 (Sheet 1 of 2)

	US 601 (Jake Alexander Blvd S) at SR 2528 (Julian Rd) and Martin Luther King Jr Ave		
	Division 9 Rowan County Salisbury	PLAN DATE: January 2022 PREPARED BY: I.O. Umozurike	
SCALE 0 40 1" = 40'	REVISIONS _____	INIT. DATE _____	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL NORTH CAROLINA PROFESSIONAL ENGINEER ROBERT J. ZIEMBA SEAL 026486 ENGINEER 01/27/2022 SIGNATURE DATE SIG. INVENTORY NO. 09-0640T1

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