

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS				DETECTOR PROGRAMMING								
LOOP/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	-
2B/S17	6X6	355	EXIST	-	2	Y	Y	-	-	-	Y	-
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	3	-	-
4A	6X40	0	*	*	4	Y	Y	-	-	-	-	*
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	3	-	-
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	-	-

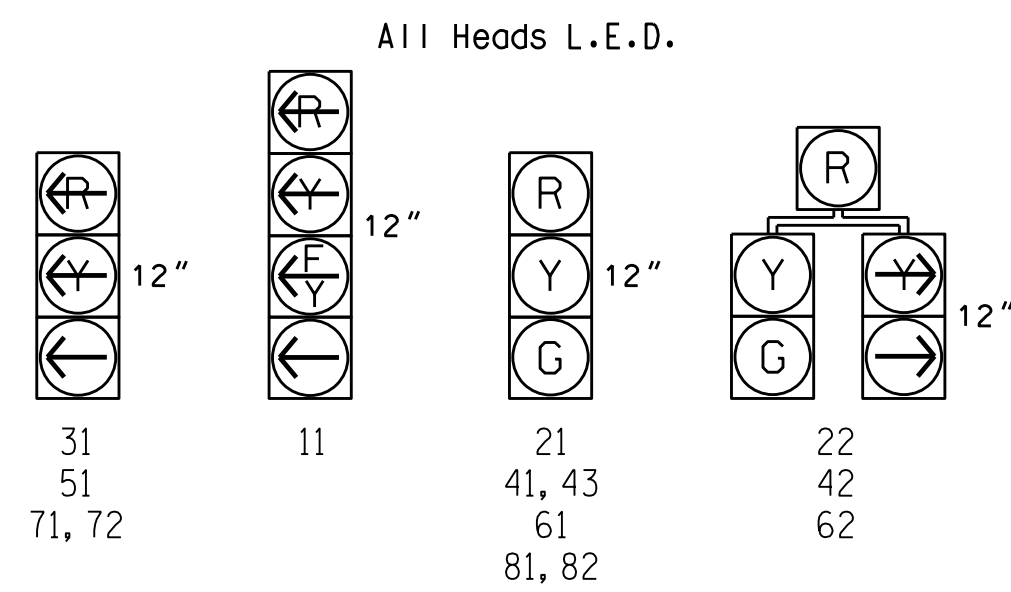
@ Disable Delay during Alternate Phasing Operation.
 # Disable Phase Call for Loop during Alternate Phasing Operation.
 * Video Detection Zone

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

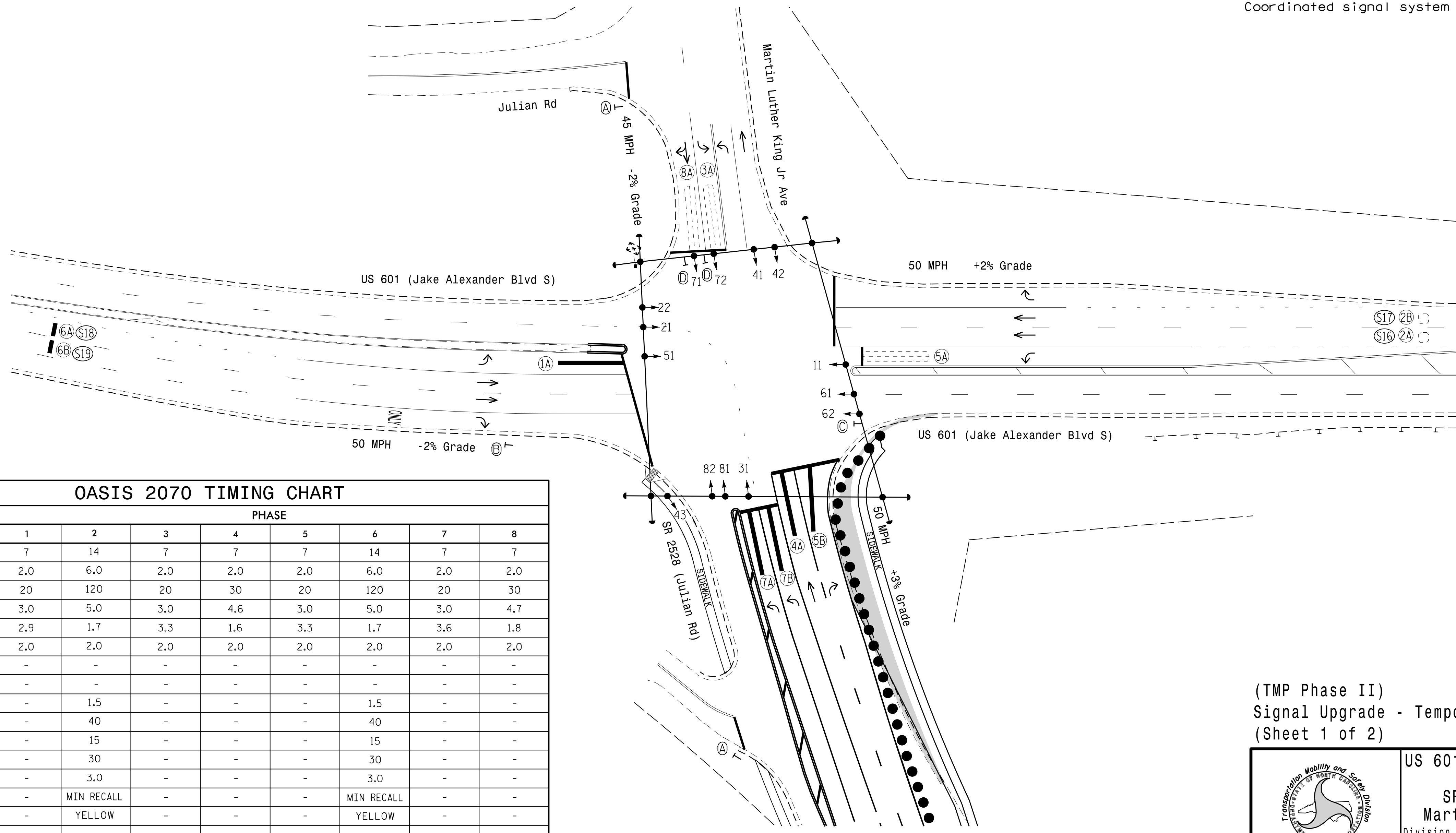
8 Phase Fully Actuated with Emergency Vehicle Preemption (Salisbury Signal System)

SIGNAL FACE I.D.



NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Reposition existing signal heads numbered 41, 42, 71, 72 and signs D.
- Adjust the video imaging loop emulator detection system to maintain vehicle detection during construction and obtain optimum detection zones as shown.
- Set all detector units to presence mode.
- This intersection features a GPS Emergency Vehicle Preemption system.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



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

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	2.9	1.7	3.3	1.6	3.3	1.7	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 II) Signal Upgrade - Temporary Design 2 (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	
PLAN DATE: January 2022	REVIEWED BY:	PREPARED BY: I.O. Umozurike	REVIEWED BY:
REVISIONS	INIT.	DATE	

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SEAL

ROBERT J. ZIEMBA

01/27/2022

SIG. INVENTORY NO. 09-0640T2