

PHASING DIAGRAM

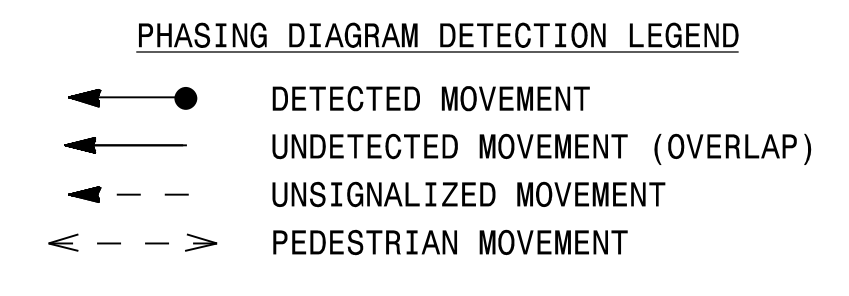
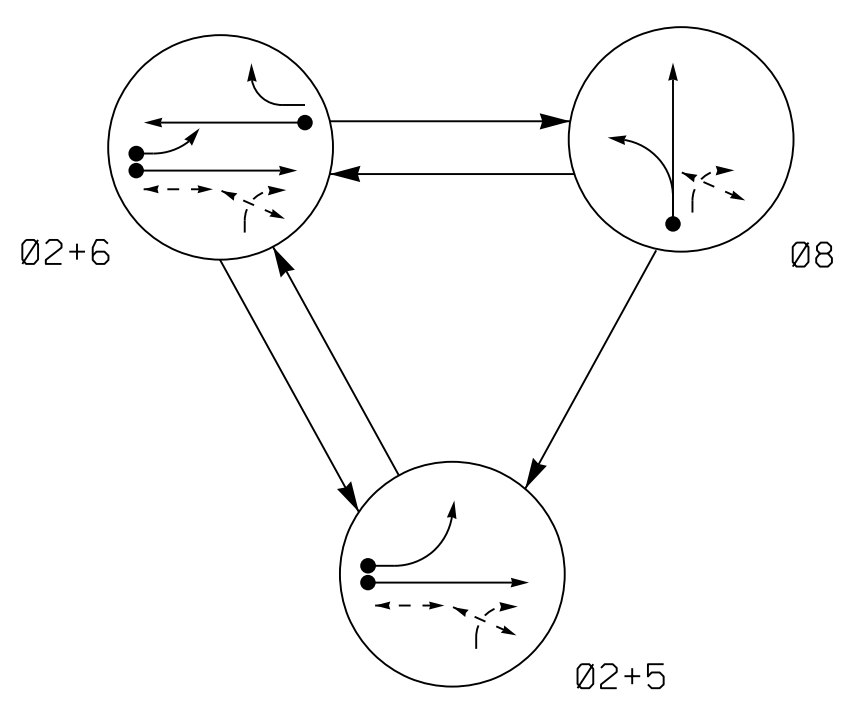
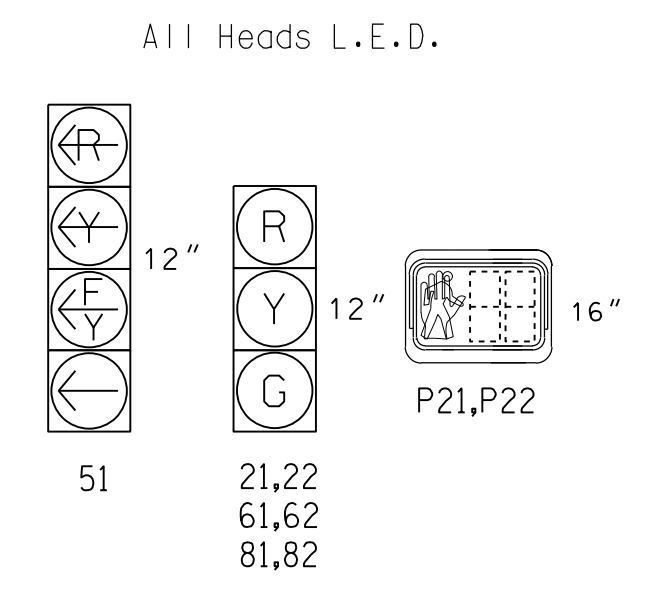


TABLE OF OPERATION

SIGNAL FACE	PHASE			
	02+6	08	02+5	FLASH
21,22	G	G	R	Y
51	←	←	←	←
61,62	R	G	R	Y
81,82	R	R	G	R
P21,P22	W	W	DW	DRK

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

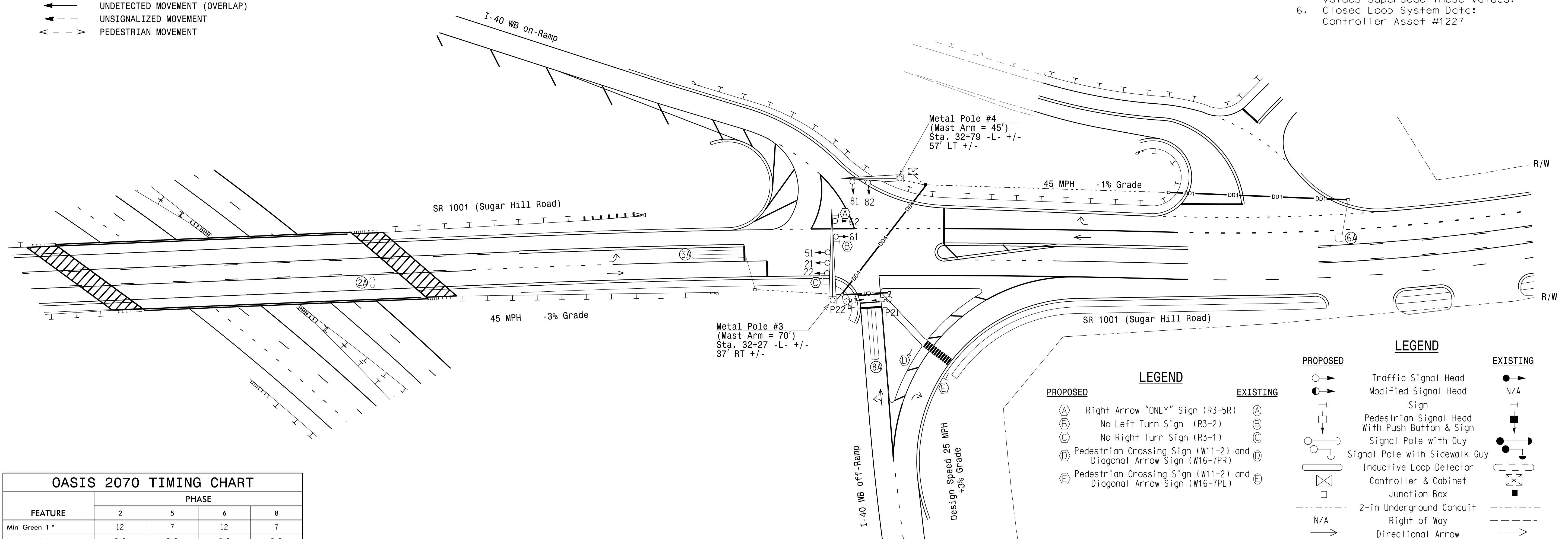
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP NEW CARD		
					PHASE	CALLING EXTENSION	FULL TIME DELAY	STRETCH TIME		DELAY TIME	
2A	*	300	*	Y	2	Y	Y	-	-	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	Y
6A	6X6	300	4	Y	6	Y	Y	-	-	3	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	Y

* Multi-zone Microwave Detection

3 Phase Fully Actuated SR 1001 (Sugar Hill Rd) CLS

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 5 may be lagged.
4. Set all detector units to presence mode.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Closed Loop System Data: Controller Asset #1227



LEGEND

PROPOSED	EXISTING
(A) Right Arrow "ONLY" Sign (R3-5R)	(A) Right Arrow Sign (R3-5)
(B) No Left Turn Sign (R3-2)	(B) No Left Turn Sign (R3-2)
(C) No Right Turn Sign (R3-1)	(C) No Right Turn Sign (R3-1)
(D) Pedestrian Crossing Sign (W11-2) and Diagonal Arrow Sign (W16-7PR)	(D) Pedestrian Crossing Sign (W11-2) and Diagonal Arrow Sign (W16-7PL)
(E) Pedestrian Crossing Sign (W11-2) and Diagonal Arrow Sign (W16-7PL)	(E) Pedestrian Crossing Sign (W11-2) and Diagonal Arrow Sign (W16-7PL)

LEGEND

PROPOSED	EXISTING
○ Traffic Signal Head	● Traffic Signal Head
◐ Modified Signal Head	N/A
◑ Sign	N/A
◒ Pedestrian Signal Head With Push Button & Sign	◒ Pedestrian Signal Head With Push Button & Sign
◓ 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	- - - Right of Way
→ Directional Arrow	→ Directional Arrow
◌ Out of Pavement Detection Zone	◌ Out of Pavement Detection Zone
◐ Metal Pole with Mastarm	◐ Metal Pole with Mastarm
◑ Directional Drill (#) x 2" Conduit	N/A
○ Type II Signal Pedestal	● Type II Signal Pedestal

OASIS 2070 TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Min Green 1 *	12	7	12	7
Extension 1 *	6.0	2.0	6.0	2.0
Max Green 1 *	90	25	90	15
Yellow Clearance	4.8	3.0	4.8	3.1
Red Clearance	1.6	3.2	1.6	2.7
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	7	-	-	-
Don't Walk 1	4.0	-	-	-
Seconds Per Actuation *	2.5	-	2.5	-
Max Variable Initial *	34	-	34	-
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

* 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.

Signal Upgrade - Final Design

<p>Stantec Consulting Services Inc. 801 Jones Franklin Road-Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p>		<p>SR 1001 (Sugar Hill Road) at I-40 Westbound Ramps</p>	
		<p>Division 13 McDowell County Marion</p> <p>PLAN DATE: January 2019 REVIEWED BY: R Muncey</p> <p>PREPARED BY: G Spell REVIEWED BY: D Harris</p>	<p>2/5/2019</p> <p>DATE</p>

2/5/2019 10:11 AM
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