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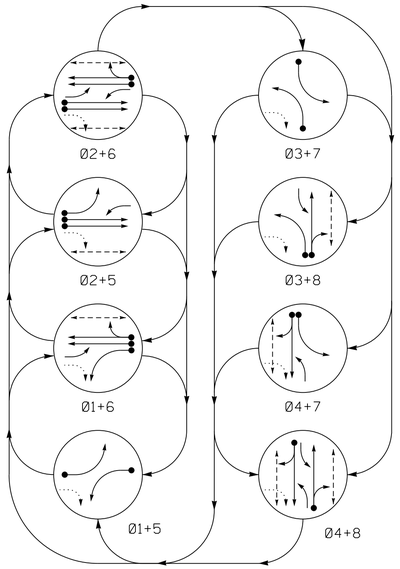
PROJECT REFERENCE NO.	SHEET NO.
U-5935	SIG-2.0

8-Phase
Fully Actuated
US 301 (Ward Boulevard) CLS

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

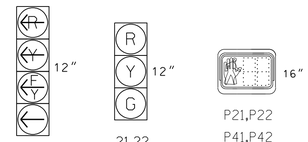
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	FLASH
11	←	←	F Y	F Y	~~R~~	~~R~~	~~R~~	~~R~~	~~Y~~
21,22	R	R	G	G	R	R	R	R	Y
31	~~R~~	~~R~~	~~R~~	~~R~~	←	←	F Y	F Y	~~R~~
41,42	R	R	R	R	R	R	G	G	R
51	←	F Y	←	F Y	~~R~~	~~R~~	~~R~~	~~R~~	~~Y~~
61,62	R	G	R	G	R	R	R	R	Y
71	~~R~~	~~R~~	~~R~~	~~R~~	←	F Y	←	F Y	~~R~~
81,82	R	R	R	R	R	G	R	G	R
P21,P22	DW	DW	W	W	DW	DW	DW	DW	DRK
P41,P42	DW	DW	DW	DW	DW	DW	W	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DW	DW	DRK
P81,P82	DW	DW	DW	DW	DW	W	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

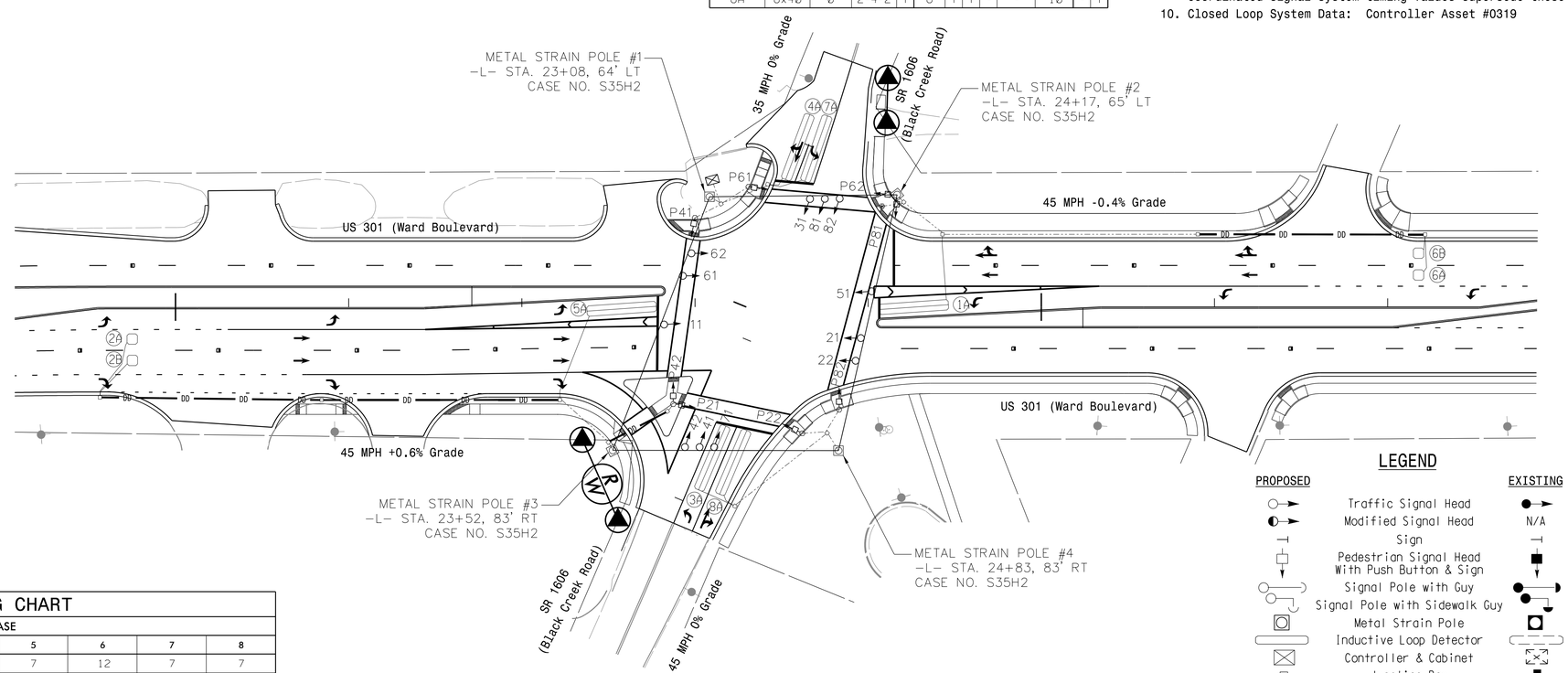


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS						DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP		PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6x40	0	2-4-2	Y		1	Y	Y	-	-	15	-	Y
						6	Y	Y	Y	-	3	-	Y
2A	6x6	300	5	Y		2	Y	Y	-	-	-	-	Y
2B	6x6	300	5	Y		2	Y	Y	-	-	-	-	Y
3A	6x40	0	2-4-2	Y		3	Y	Y	-	-	15	-	Y
						8	Y	Y	-	-	3	-	Y
4A	6x40	0	2-4-2	Y		4	Y	Y	-	-	10	-	Y
5A	6x40	0	2-4-2	Y		5	Y	Y	-	-	15	-	Y
						2	Y	Y	Y	-	3	-	Y
6A	6x6	300	5	Y		6	Y	Y	-	-	-	-	Y
6B	6x6	300	5	Y		6	Y	Y	-	-	-	-	Y
7A	6x40	0	2-4-2	Y		7	Y	Y	-	-	15	-	Y
						4	Y	Y	-	-	3	-	Y
8A	6x40	0	2-4-2	Y		8	Y	Y	-	-	10	-	Y

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated Janauary 2012.
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. 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. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. Closed Loop System Data: Controller Asset #0319



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Metal Strain Pole	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
DD	Directional Drill	N/A
N/A	Right of Way	
	Directional Arrow	
	Type I Pushbutton Post	
	Type II Signal Pedestal	

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	20	50	20	30	20	50	20	30
Yellow Clearance	3.0	4.6	3.0	4.5	3.0	4.6	3.0	4.5
Red Clearance	3.4	1.9	3.1	2.8	3.4	1.9	3.2	2.8
Red Revert	-	-	-	-	-	-	-	-
Walk 1 *	-	4.0	-	4.0	-	4.0	-	4.0
Don't Walk 1	-	15	-	21	-	14	-	27
Seconds Per Actuation *	-	1.8	-	-	-	1.8	-	-
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	-	-	-	ON	-	-	-	ON
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.

Signal Upgrade

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Prepared In the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40 1"=40'

US 301 (Ward Boulevard) at SR 1606 (Black Creek Road)

Division 4 Wilson County Wilson

PLAN DATE:	June 2017	REVIEWED BY:	W M Ruhsam
PREPARED BY:	K M Cory	REVIEWED BY:	

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 038970 ENGINEER KELLY M CORY

DocuSigned by: Kelly M Cory E2E270EB1C142E... 8/4/2017
SIGNATURE DATE

SIG. INVENTORY NO. 04-0319

04-AUG-2017 11:31
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KMCory AT NDRCWKCORY