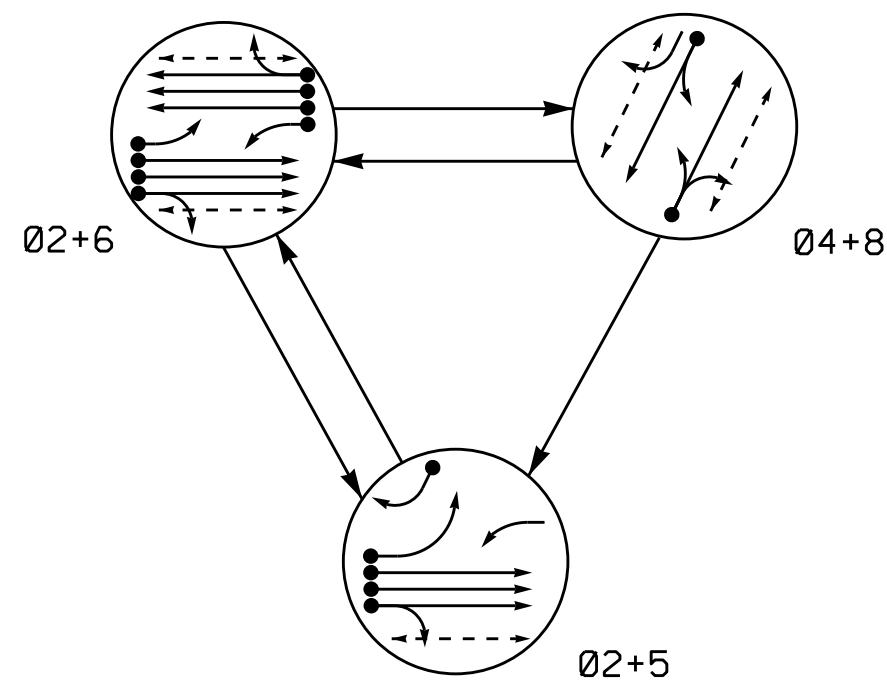


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- ← ● DETECTED MOVEMENT
- ← ○ UNDETECTED MOVEMENT (OVERLAP)
- ← - - - UNSIGNALIZED MOVEMENT
- ← - - - PEDESTRIAN MOVEMENT

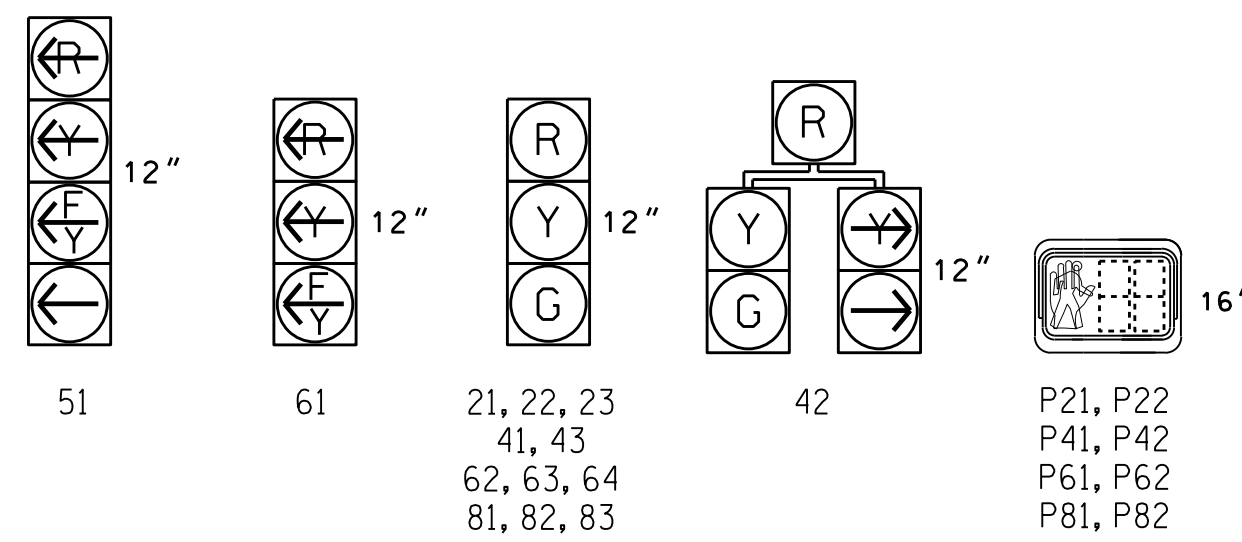
TABLE OF OPERATION

SIGNAL FACE	PHASE				FLASH
	Ø 2+5	Ø 2+6	Ø 4+8	Ø 2+5	
21, 22, 23	G	R	G	R	Y
41, 43	R	R	G	R	
42	R	R	G	R	
51	-	F	-	-	-
61	-	F	-	-	-
62, 63, 64	R	G	R	Y	
81, 82, 83	R	R	G	R	
P21, P22	W	W	DW	DRK	
P41, P42	DW	DW	W	DRK	
P61, P62	DW	W	DW	DRK	
P81, P82	DW	DW	W	DRK	

W - Walk
 DW - Don't Walk
 DRK - Dark

SIGNAL FACE I.D.

All Heads L.E.D.



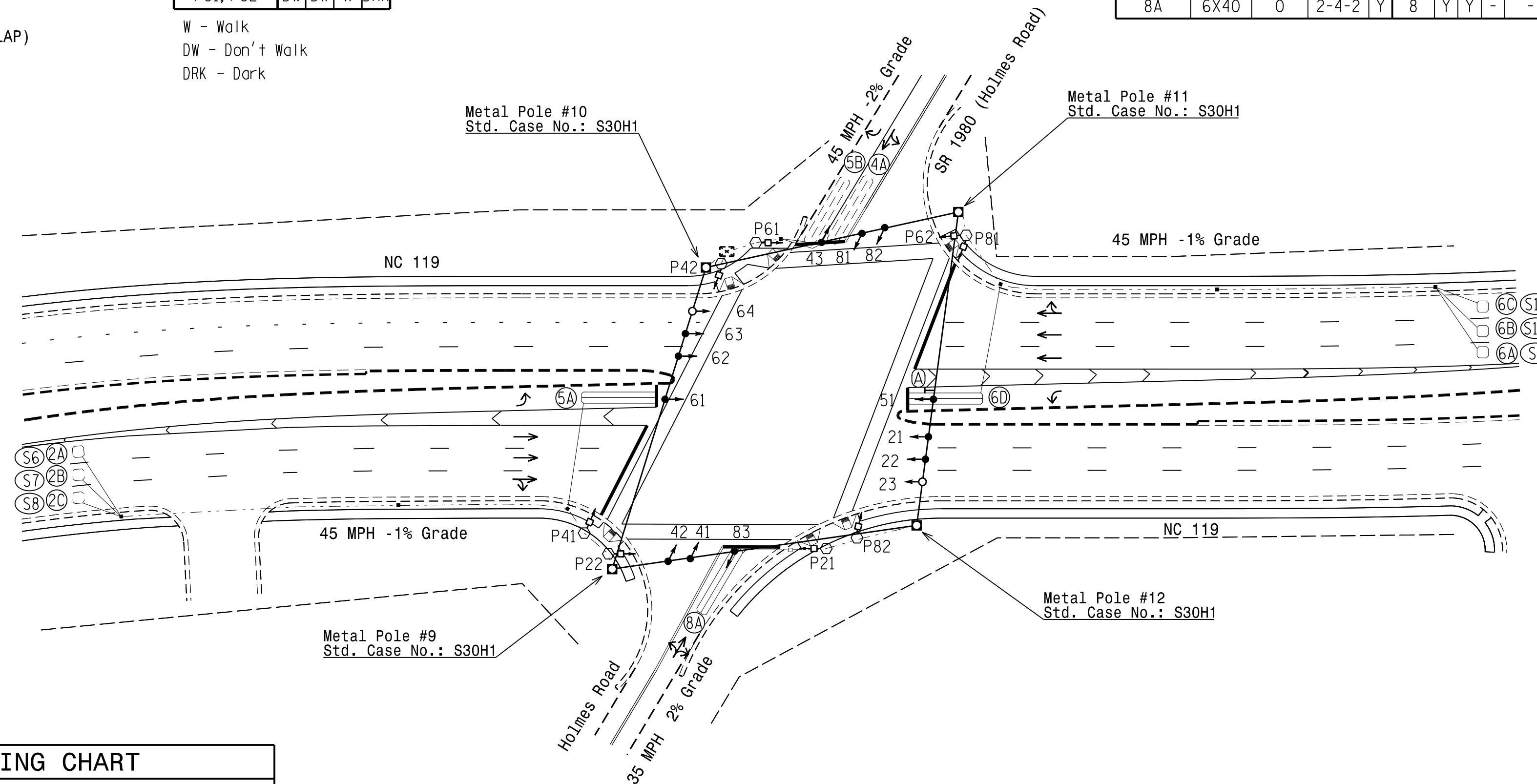
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP NEW CARD
2A/S6	6X6	300	5	Y	2	Y	Y	-	-	-	Y
2B/S7	6X6	300	5	-	2	Y	Y	-	-	-	-
2C/S8	6X6	300	5	-	2	Y	Y	-	-	-	-
4A	6X6	0	2-4-2	-	4	Y	Y	-	-	3	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-
5B	6X6	0	2-4-2	-	5	Y	Y	-	-	15	-
6A/S9	6X6	300	5	Y	6	Y	Y	-	-	-	-
6B/S10	6X6	300	5	Y	6	Y	Y	-	-	-	Y
6C/S11	6X6	300	5	Y	6	Y	Y	-	-	-	Y
6D	6X40	0	2-4-2	Y	6	Y	Y	Y	-	3	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	5	-

3 Phase Fully Actuated (NC 119 CLS)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Reposition existing signal heads 21, 22, 51, 61, 62, and 63.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #: 0442.



OASIS 2070 TIMING CHART

FEATURE	PHASE				
	2	4	5	6	8
Min Green 1 *	12	7	7	12	7
Extension 1 *	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	90	15	25	90	25
Yellow Clearance	4.6	3.0	3.0	4.6	3.7
Red Clearance	2.1	3.7	3.7	2.1	4.2
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	7	7	-	7	7
Don't Walk 1	26	37	-	22	41
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	-	ON	-	-	ON
Simultaneous Gap	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.

LEGEND

- | PROPOSED | EXISTING |
|--|--|
| ○ → Traffic Signal Head | ● → N/A |
| ● → Modified Signal Head | ○ → N/A |
| ⊥ Sign | ⊥ Sign |
| ⊥ 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 |
| N/A Curb Ramp | → Curb Ramp |
| ○ Metal Strain Pole | ○ Metal Strain Pole |
| ○ Type II Signal Pedestal | ● Type II Signal Pedestal |
| △ "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | △ "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) |

Signal Upgrade - Final Design

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

NC 119 at SR 1980 (Holmes Road)

Division 7 Alamance County Mebane

PLAN DATE: November 2016 REVIEWED BY:

PREPARED BY: I. O. Umozurike REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1"=50'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

1/24/2017

SIG. INVENTORY NO. 07-0442