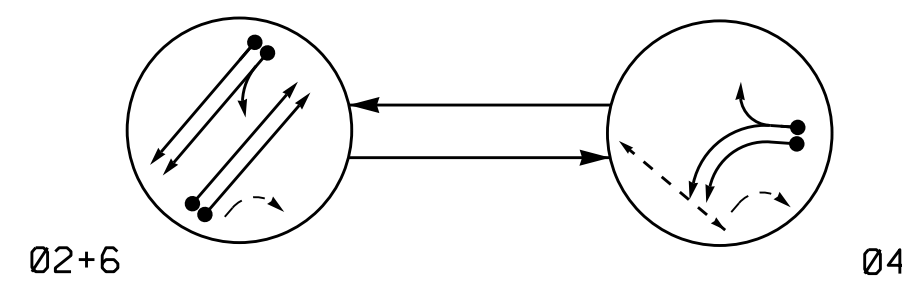


2 Phase Fully Actuated NC 18 Closed Loop System

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

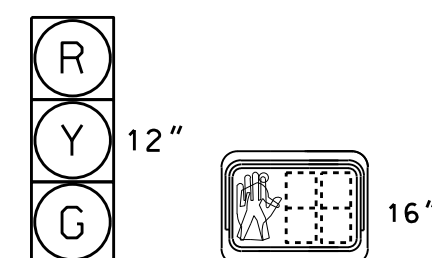
TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø2+6	Ø4	FL
21,22	G	R	Y
41,42,43	R	G	R
61,62	G	R	Y
P41, P42	DW	W	DRK

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

SIGNAL FACE I.D.

All Heads L.E.D.



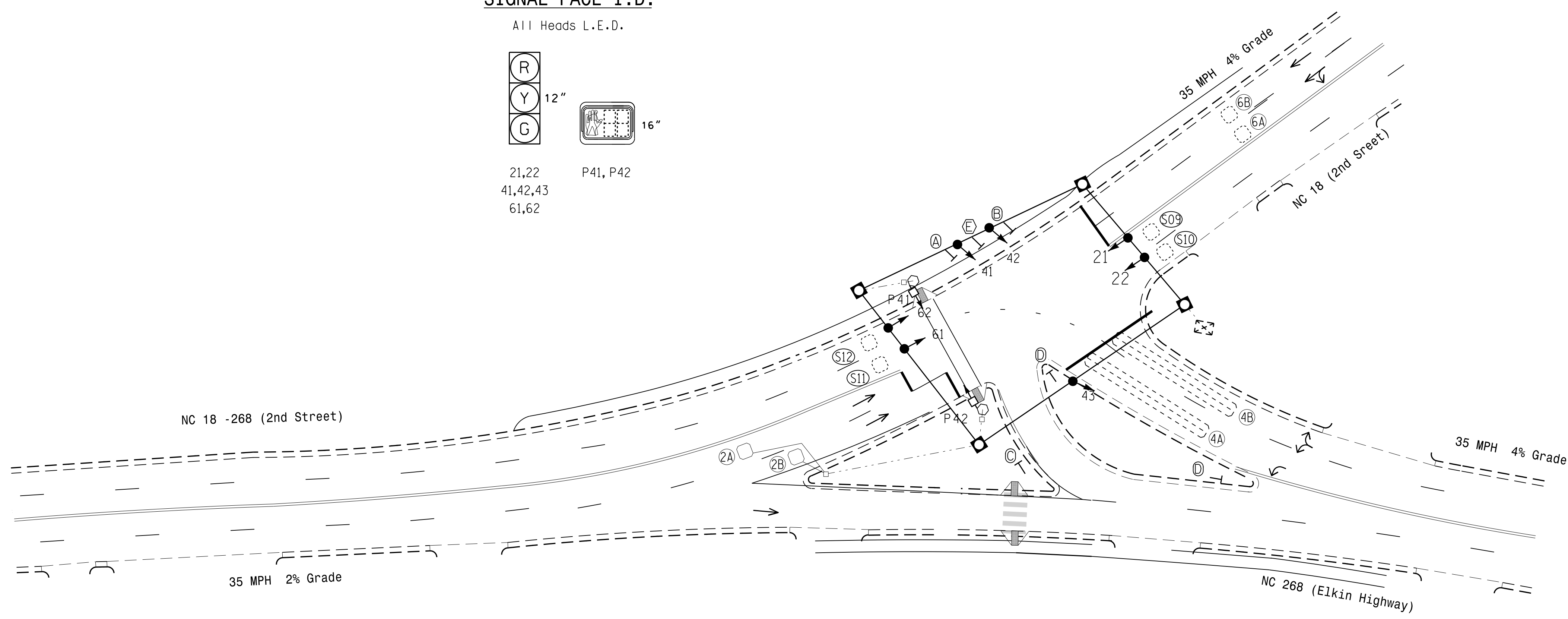
21,22 P41, P42
 41,42,43
 61,62

OASIS 2070L LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	65	4	Y	2	Y	Y	-	-	-	-	-
2B	6X6	60	4	Y	-	-	-	-	-	-	-	-
4A	6X60	0	2-4-2	-	4	Y	Y	-	-	-	-	-
4B	6X60	0	2-4-2	-	4	Y	Y	-	-	5	-	-
6A,6B	6X6	65	4	-	6	Y	Y	-	-	-	-	-
S09	6X6	+120	4	-	-	-	-	-	-	-	Y	-
S10	6X6	+112	4	-	-	-	-	-	-	-	Y	-
S11	6X6	+115	4	-	-	-	-	-	-	-	Y	-
S12	6X6	+115	4	-	-	-	-	-	-	-	Y	-

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.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- 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 # 0941.



LEGEND

- | PROPOSED | EXISTING |
|--|---------------------------------------|
| ○ → Traffic Signal Head | ● → N/A |
| ● → Modified Signal Head | — Sign |
| ⊥ Pedestrian Signal Head With Push Button & Sign | ⊥ 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 | → Yield Pavement |
| ○ Metal Strain Pole | ○ Type II Signal Pedestal |
| ⊕ Left Arrow "ONLY" Sign (R3-5L) | ⊕ Dual Turn Arrows Sign (R3-18) |
| ⊕ "YIELD" Sign (R1-2) | ⊕ Keep Right Sign (R4-7A) |
| ⊕ "TURNING VEHICLES" With Left Arrow | ⊕ "YIELD TO" Pedestrian Sign (R10-15) |

OASIS 2070L TIMING CHART

FEATURE	PHASE		
	2	4	6
Min Green 1 *	10	7	10
Extension 1 *	3.0	1.0	3.0
Max Green 1 *	45	25	45
Yellow Clearance	3.7	3.0	3.6
Red Clearance	2.0	2.9	2.0
Red Revert	2.0	2.0	2.0
Walk 1 *	-	7	-
Don't Walk 1	-	10	-
Seconds Per Actuation *	-	-	-
Max Variable Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Recall Mode	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	YELLOW
Dual Entry	-	-	-
Simultaneous Gap	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

750 N. Greenfield Pkwy, Garner, NC 27529

NC 18-268 / NC 18 (2nd Street) at NC 268 (Elkin Highway)

Division 11 Wilkes County North Wilkesboro

PLAN DATE: June 2015 REVIEWED BY: Z. Little

PREPARED BY: M. Mahbooba REVIEWED BY:

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 030530

ZACHARY M. LITTLE

6/5/2015

SIG. INVENTORY NO. 11-0941

05-JUN-2015 10:35
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