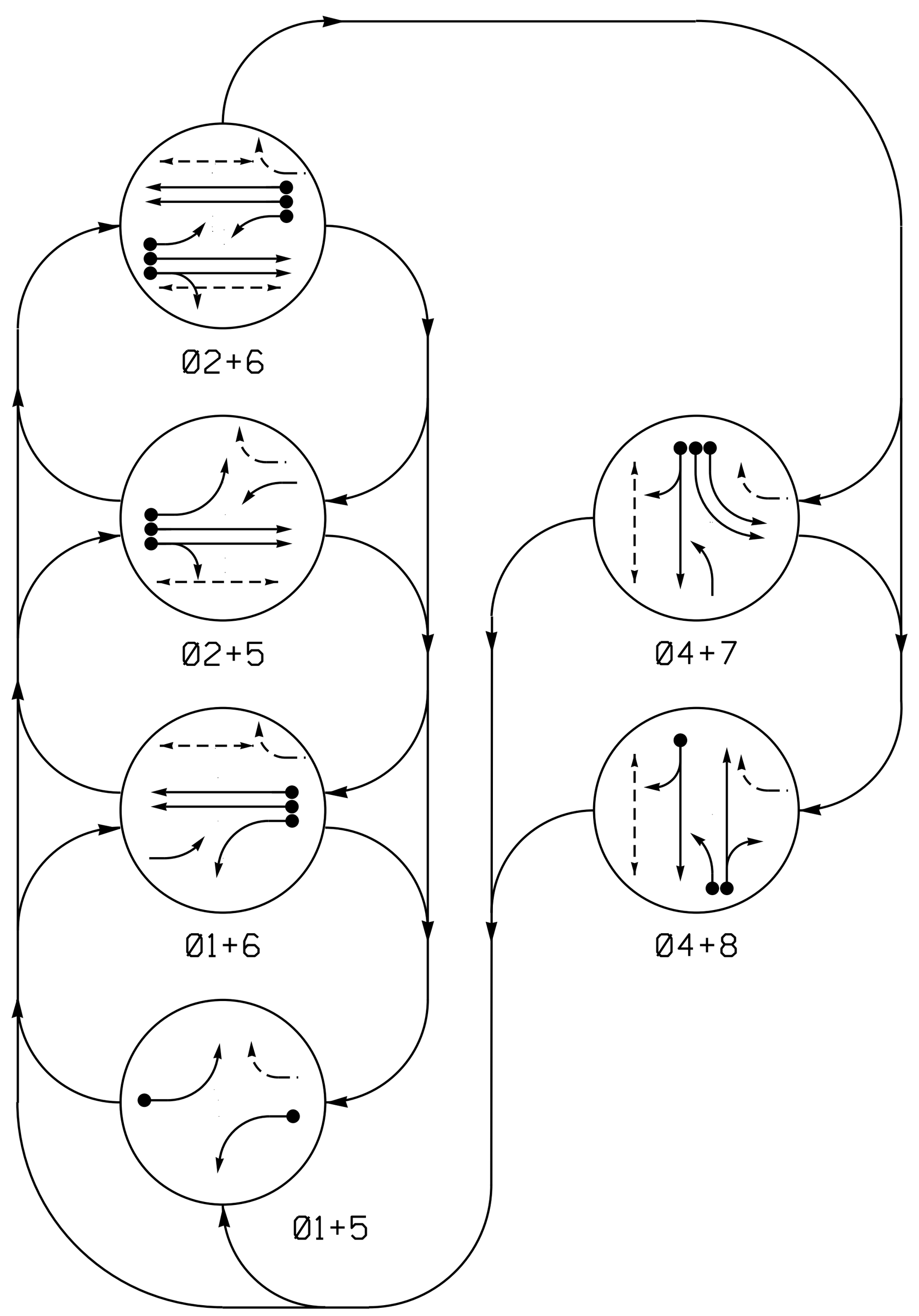
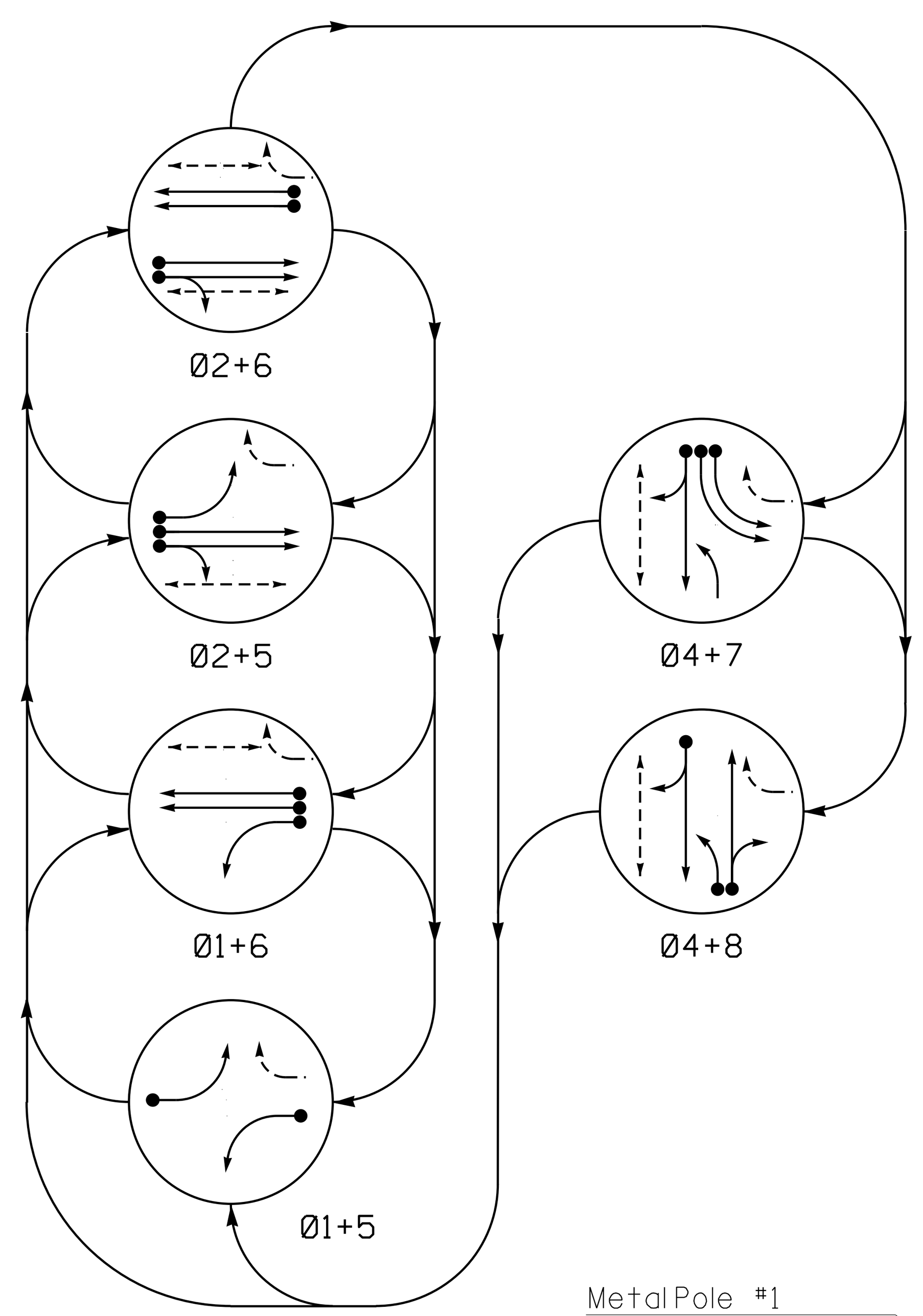
PROJECT REFERENCE NO.	SHEET NO.
U-5710A	Sig-4.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM

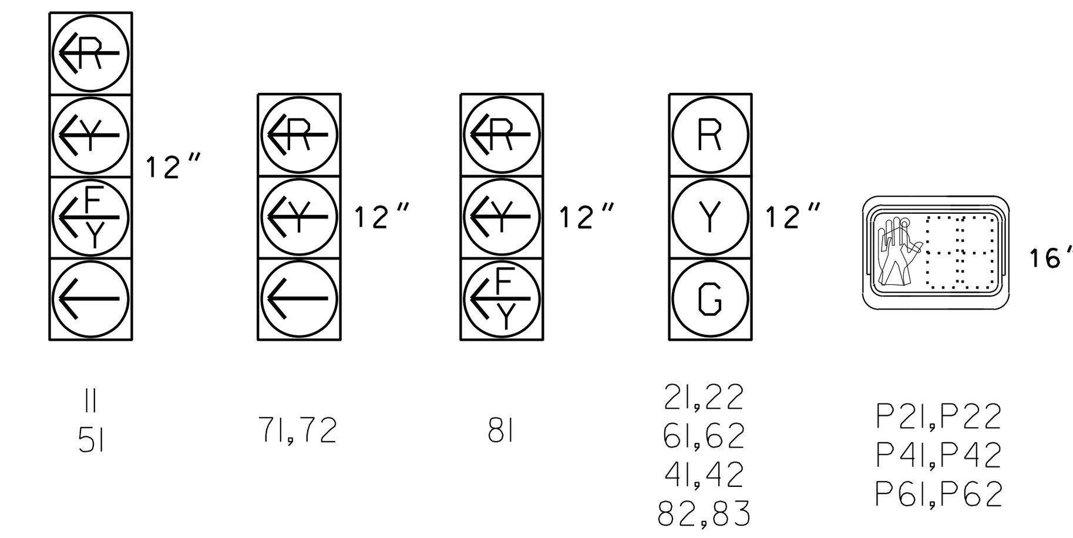


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.



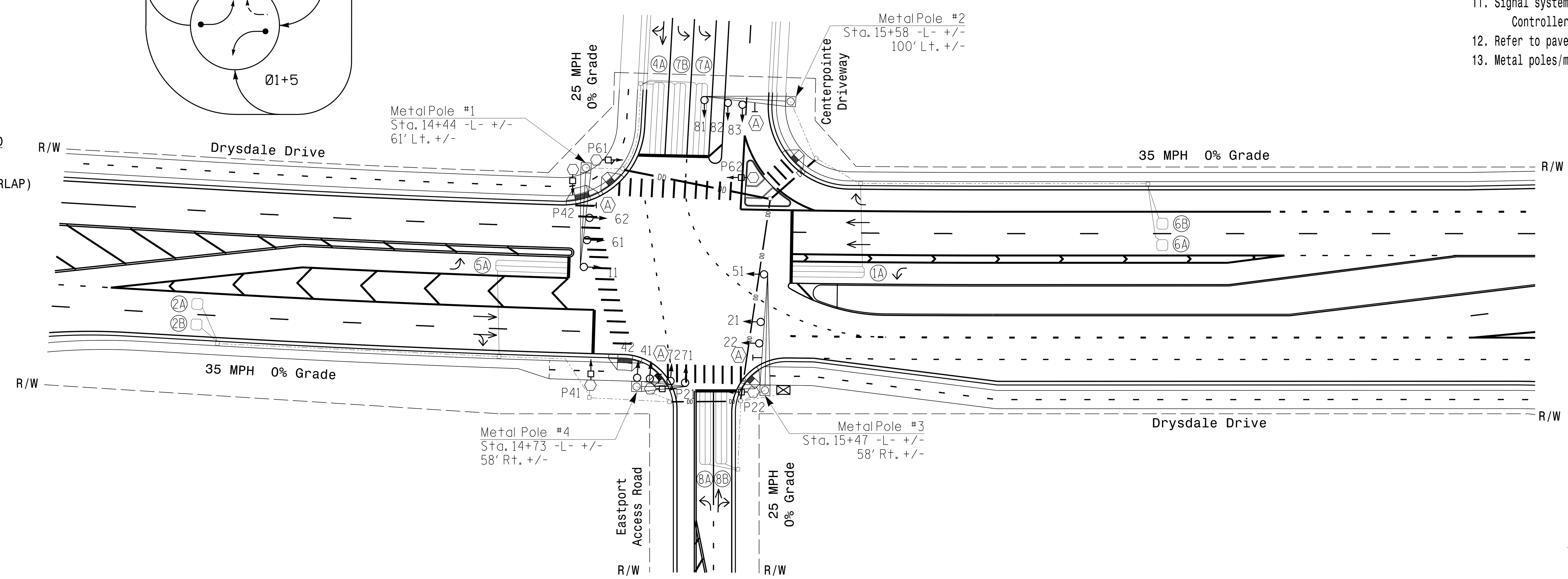
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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	-	-	10*	-	Y
					6**	Y	Y	-	-	-	-	Y
2A	6X6	200	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	200	5	Y	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	10	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	10*	-	Y
					2**	Y	Y	-	-	-	-	Y
6A	6X6	200	5	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	200	5	Y	6	Y	Y	-	-	-	-	Y
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	Y
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	Y
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	10	-	Y

* Disable delay during Alternate Phasing operation.
** Disable phase call for loop during Alternate Phasing operation.

6 Phase
Fully Actuated
(Wilmington Signal System)

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "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 1 and/or phase 5 may be lagged.
4. 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 the pedestrian heads to countdown the flashing "DON'T WALK" time only.
9. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Signal system data:
    Controller Asset #1152.
12. Refer to pavement marking plans for stop bar and crosswalk location.
13. Metal poles/mast arms and Type II pedestals shall be black powder-coated.



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	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Metal Strain Pole	
N/A	Curb Ramp	
	Metal Pole with Mastarm	
	Directional Drill	N/A
	Type II Signal Pedestal	
(A)	Street Name Sign (By Others)	(A)

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	4	5	6	7	8
Min Green 1 *	5	12	5	5	12	5	5
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	15	100	25	15	100	15	25
Yellow Clearance	3.0	3.8	3.2	3.0	3.8	3.0	3.2
Red Clearance	2.8	2.4	3.2	3.2	2.4	3.2	3.1
Walk 1 *	-	7	7	-	7	-	-
Don't Walk 1	-	11	23	-	18	-	-
Seconds Per Actuation *	-	1.5	-	-	1.5	-	-
Max Variable Initial *	-	24	-	-	24	-	-
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	-	-	-	-
Simultaneous Gap	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.

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+7	Ø4+8	FLASH
11	←	←	←FY	←FY	←R	←R	←Y
21,22	R	R	G	G	R	R	Y
41,42	R	R	R	R	G	G	R
51	←	←FY	←	←FY	←R	←R	←Y
61,62	R	G	R	G	R	R	Y
71,72	←R	←R	←R	←R	←	←R	←R
81	←R	←R	←R	←R	←FY	←FY	←R
82,83	R	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DW	DRK
P41,P42	DW	DW	DW	DW	W	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+7	Ø4+8	FLASH
11	←	←	←R	←R	←R	←R	←Y
21,22	R	R	G	G	R	R	Y
41,42	R	R	R	R	G	G	R
51	←	←R	←	←R	←R	←R	←Y
61,62	R	G	R	G	R	R	Y
71,72	←R	←R	←R	←R	←	←R	←R
81	←R	←R	←R	←R	←FY	←FY	←R
82,83	R	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DW	DRK
P41,P42	DW	DW	DW	DW	W	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DRK

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New Installation

Prepared for: Transportation Mobility and Safety Division, Signal Design Section, State of North Carolina Department of Transportation
750 N.Greenfield Pkwy,Garner,NC 27529

Drysdale Drive at Centerpointe/Eastport Access

Division 3 | New Hanover County | Wilmington

PLAN DATE: November 2021	REVIEWED BY: WJ Hamilton
PREPARED BY: A. Andrews	RKA PROJ. NO.: 19258 (040)

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

DocuSigned by: William J. Hamilton
A0560D704648484...
SIGNATURE 11/08/2021 DATE

SIG. INVENTORY NO. 03-1152