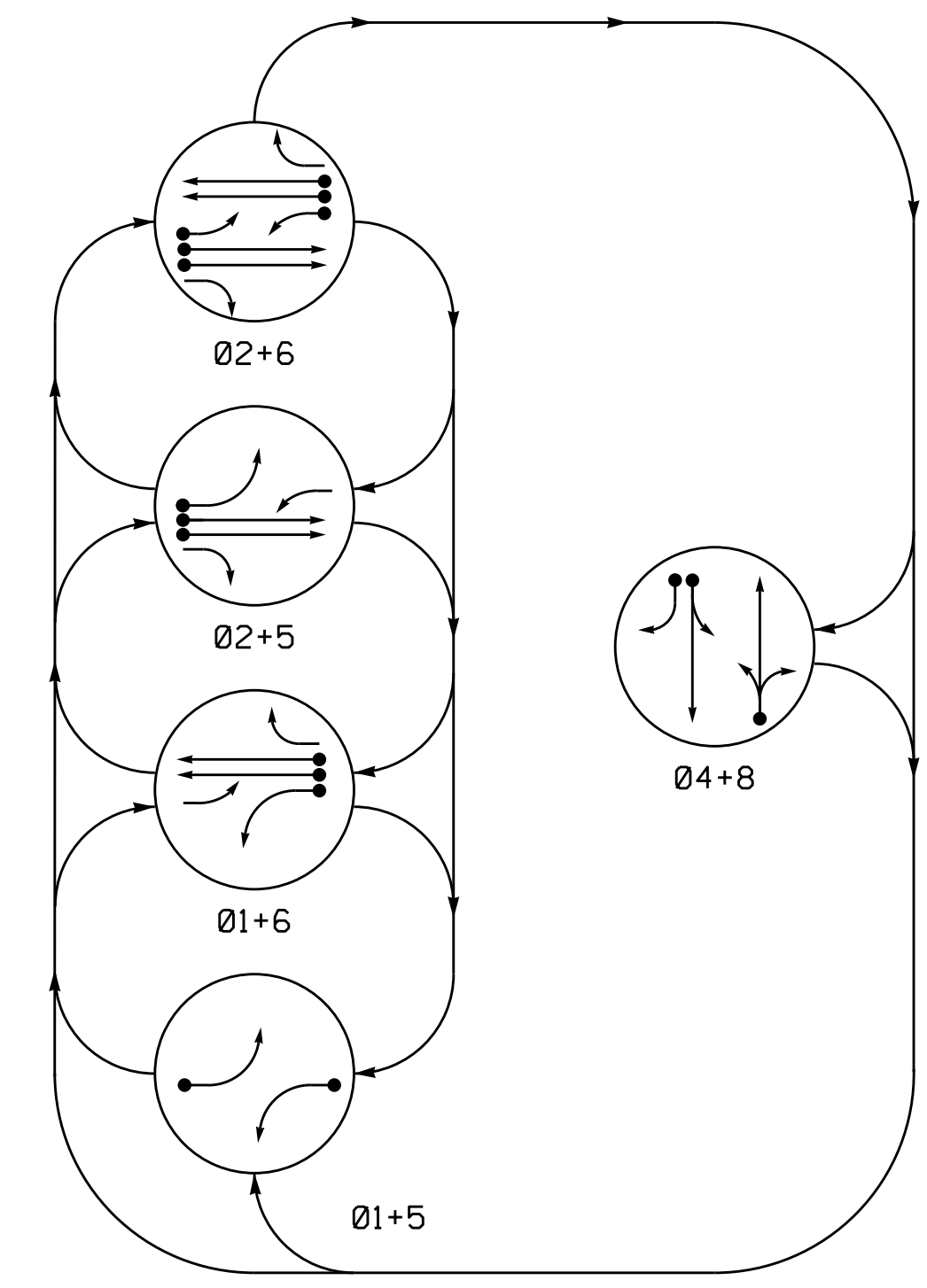


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

EV PREEMPT PHASES
(Medium Priority)

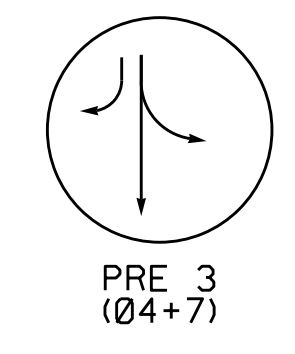
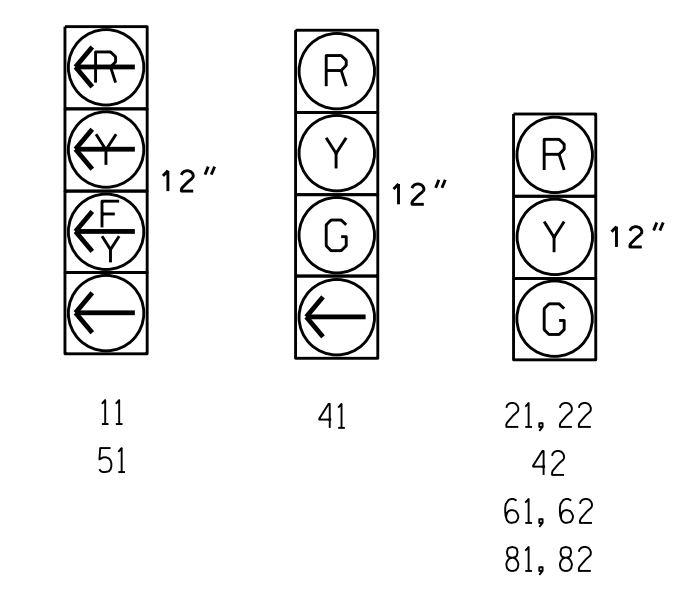


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	04+8	EV P3	FL	ISLAND
11	←	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	Y	
41	R	R	R	R	G	G		
42	R	R	R	R	R	G	R	
51	←	←	←	←	←	←	←	←
61, 62	R	G	R	R	R	R	Y	
81, 82	R	R	R	R	G	R	R	

SIGNAL FACE I.D.
All Heads L.E.D.



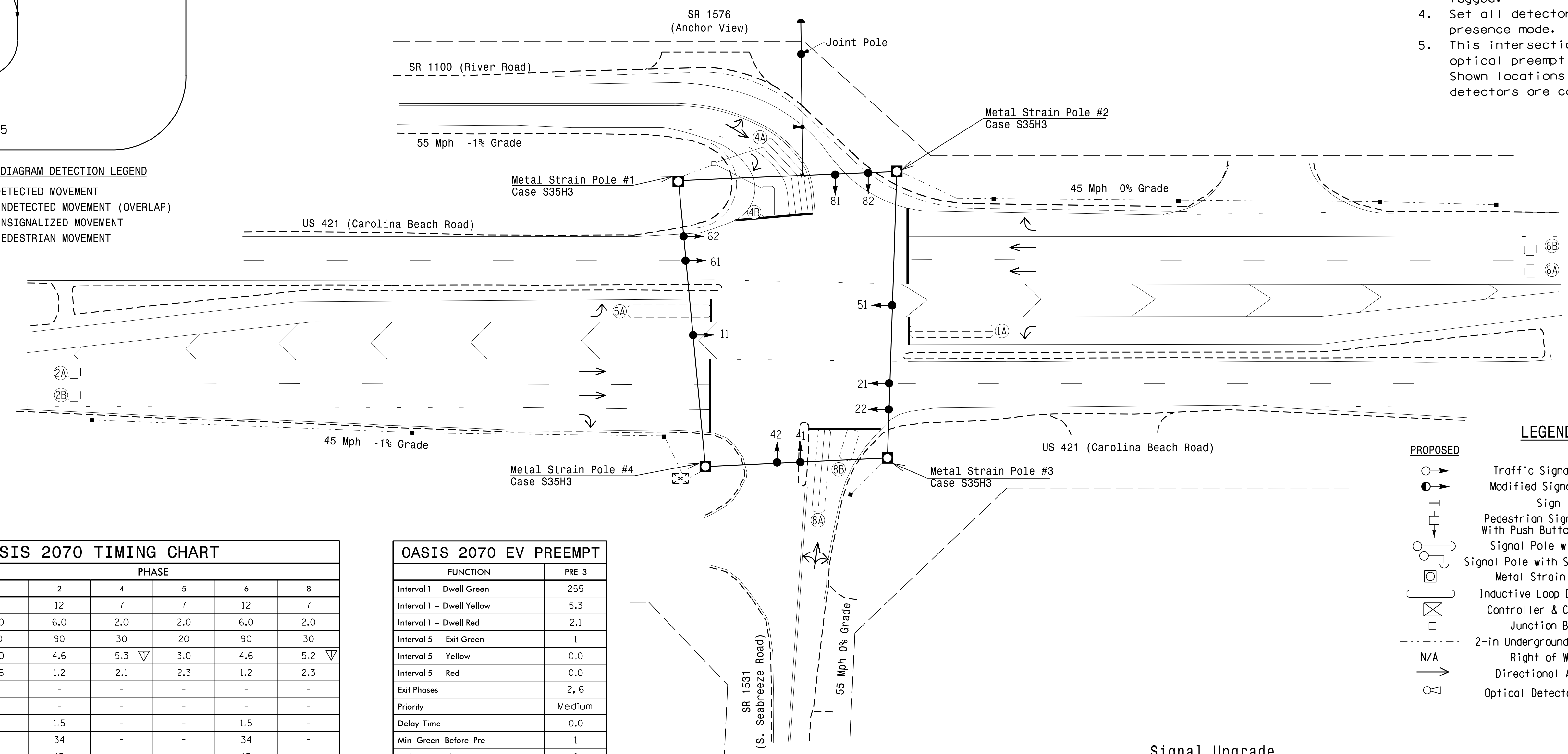
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	-
2A	6X6	300	5	-	2	Y	Y	-	-	-	-	-
2B	6X6	300	5	-	2	Y	Y	-	-	-	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	3	-	-
4B	6X15	0	4	Y	4	Y	Y	-	-	15	-	-
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	15	-	-
6A	6X6	300	5	-	6	Y	Y	-	-	-	-	-
6B	6X6	300	5	-	6	Y	Y	-	-	-	-	-
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	-	-	-
8B	6X15	0	4	-	8	Y	Y	-	-	15	-	-

5 Phase Fully Actuated w/ Emergency Vehicle Preempt Isolated

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 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	8		
Min Green 1*	7	12	7	7	12	7		
Extension 1*	2.0	6.0	2.0	2.0	6.0	2.0		
Max Green 1*	20	90	30	20	90	30		
Yellow Clearance	3.0	4.6	5.3	3.0	4.6	5.2		
Red Clearance	2.6	1.2	2.1	2.3	1.2	2.3		
Walk 1*	-	-	-	-	-	-		
Don't Walk 1	-	-	-	-	-	-		
Seconds Per Actuation*	-	1.5	-	-	1.5	-		
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	ON		

OASIS 2070 EV PREEMPT

FUNCTION	PRE 3
Interval 1 - Dwell Green	255
Interval 1 - Dwell Yellow	5.3
Interval 1 - Dwell Red	2.1
Interval 5 - Exit Green	1
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Exit Phases	2.6
Priority	Medium
Delay Time	0.0
Min Green Before Pre	1
Ped Clear Before Pre	0
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	7
Enable Backup Protection	Y
Ped Clear Through Yellow	N
Omit Overlaps	-
Preempt Extend**	2

LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
○ → Sign	○ → N/A
○ → Pedestrian Signal Head With Push Button & Sign	○ → N/A
○ → Signal Pole with Guy	○ → N/A
○ → Signal Pole with Sidewalk Guy	○ → N/A
○ → Metal Strain Pole	○ → N/A
○ → Inductive Loop Detector	○ → N/A
○ → Controller & Cabinet	○ → N/A
○ → Junction Box	○ → N/A
○ → 2-in Underground Conduit	○ → N/A
○ → Right of Way	○ → N/A
○ → Directional Arrow	○ → N/A
○ → Optical Detector Unit	○ → N/A

* 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.

* Time defaults to time used for phase during normal operation
** Program Timing on Optical Detection Unit

Signal Upgrade

Revision Seal

Prepared in the Offices of:

US 421 (Carolina Beach Road) at SR 1576 (River Road) / SR 1531 (S. Seabreeze Road)

Division 3 New Hanover County Wilmington

PLAN DATE: July 2010 REVIEWED BY: I. O. Umozurike

PREPARED BY: I. O. Umozurike REVIEWED BY:

REVISIONS: Install new loops, revise clearance times... (EMN)

DATE: 7/20/15

Not a certified document as to the Original Document but Only as to the Revisions - This document originally issued and sealed by Jason P. Galloway, PE no. 29904 on July 7, 2010

This document is only certified as to the revisions.

SIG. INVENTORY NO. 03-0827

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