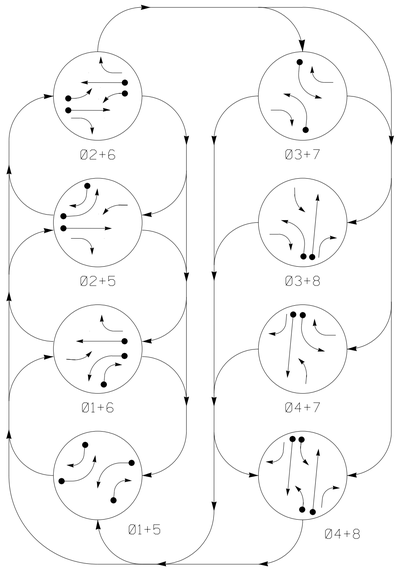
PROJECT REFERENCE NO.	SHEET NO.
SS-4903BR	Sig. 1

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	←F	←R	←R	←R	←R	←Y
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R/→	R/→	R	R	Y
31	←R	←R	←R	←R	←	←	←F	←F	←R
41	R	R	R	R	R	R	G	G	R
42	R/→	R	R/→	R	R	R	G	G	R
51	←	←F	←	←F	←R	←R	←R	←R	←Y
61	R	G	R	G	R	R	R	R	Y
62	R	G	R	G	R/→	R	R/→	R	Y
71	←R	←R	←R	←R	←	←F	←	←F	←R
81	R	R	R	R	R	G	R	G	R
82	R/→	R/→	R	R	R	G	R	G	R

SIGNAL FACE I.D.

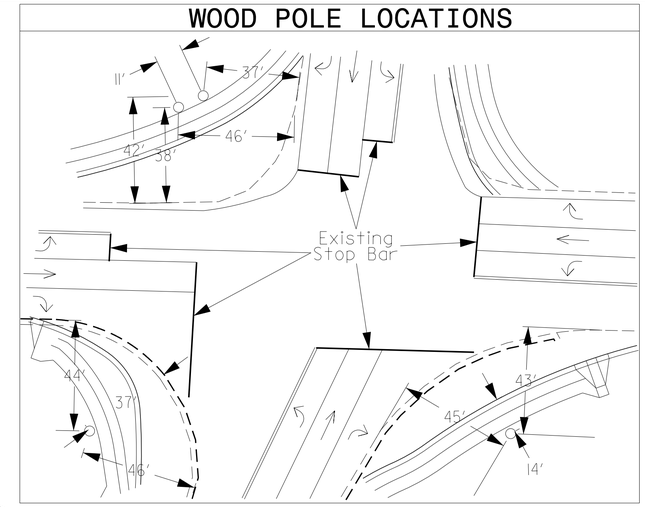
All Heads L.E.D.

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*[1,2]	-	-
					6*[3,4]	Y	Y	Y	-	3	-	-
1B	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	-
2A/S3	6X6	300	5	Y	2	Y	Y	-	-	-	Y	-
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	15*[2]	-	-
					8*[4]	Y	Y	-	-	3	-	-
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15*[1,2]	-	-
					2*[3,4]	Y	Y	Y	-	3	-	-
5B	6X40	0	2-4-2	-	5	Y	Y	-	-	15	-	-
6A/S4	6X6	300	5	Y	6	Y	Y	-	-	-	Y	-
7A	6X40	0	2-4-2	-	7	Y	Y	-	-	15*[2]	-	-
					4*[4]	Y	Y	-	-	3	-	-
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	-	-	-

*[1] Disable delay during Alternate 1 Phasing operation
*[2] Disable delay during Alternate 2 Phasing operation
*[3] Disable phase 2,6 during Alternate 1 Phasing operation
*[4] Disable phase 2,4,6,8 during Alternate 2 Phasing operation

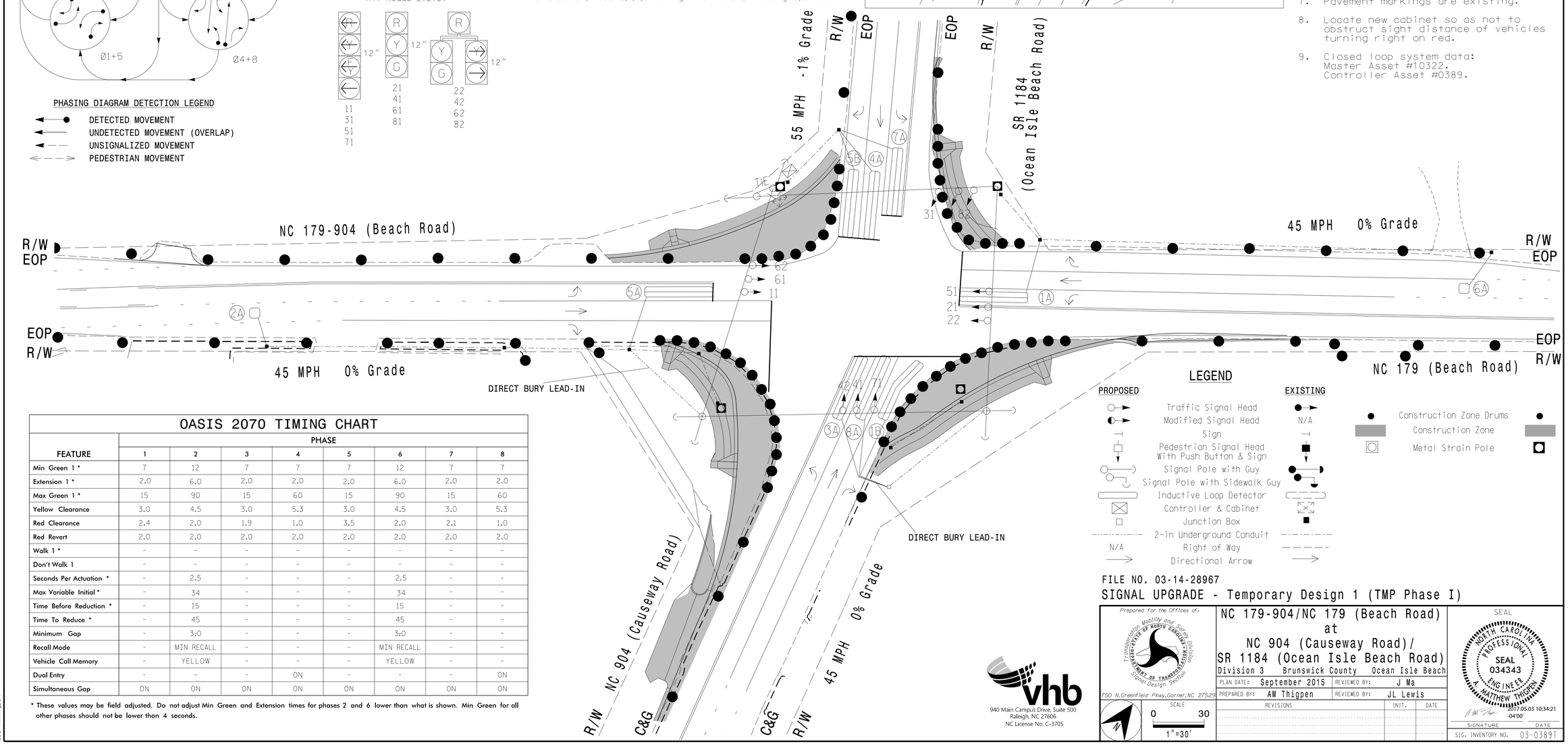
WOOD POLE LOCATIONS



8 Phase
Fully Actuated
NC 179-904 Closed Loop System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 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. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. Pavement markings are existing.
8. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
9. Closed loop system data: Master Asset #10322. Controller Asset #0389.



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 *	15	90	15	60	15	90	15	60
Yellow Clearance	3.0	4.5	3.0	5.3	3.0	4.5	3.0	5.3
Red Clearance	2.4	2.0	1.9	1.0	3.5	2.0	2.1	1.0
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	2.5	-	-	-	2.5	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
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.

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	

	Construction Zone Drums
	Construction Zone
	Metal Strain Pole

FILE NO. 03-14-28967

SIGNAL UPGRADE - Temporary Design 1 (TMP Phase I)

vhb
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705

Prepared for 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 1"=30' (0 – 30)

NC 179-904/NC 179 (Beach Road)
at
NC 904 (Causeway Road)/
SR 1184 (Ocean Isle Beach Road)
Division 3 Brunswick County Ocean Isle Beach

PLAN DATE: September 2015	REVIEWED BY: J Ma
PREPARED BY: AM Thigpen	REVIEWED BY: JL Lewis

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN
2017.05.03 10:34:21 -04'00'
SIGNATURE DATE
SIG. INVENTORY NO. 03-0389T

5/3/2017
**AMTHIGPEN\Raleigh\38286.04 NCDOT SS-4903BR\NCDOT\Traffic\Signals\Design\Signals\xxxxxxx.sig.201503xx.dgn
User:tmnigpen