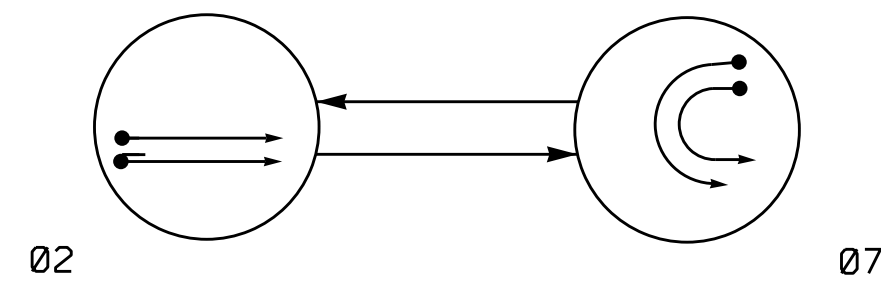


PHASING DIAGRAM



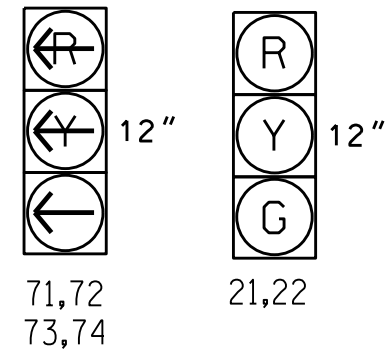
PHASING DIAGRAM DETECTION LEGEND
 ● ← DETECTED MOVEMENT
 ← UNDETECTED MOVEMENT
 - - - ← UNSIGNALIZED MOVEMENT
 <- - - - > PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02	07	FLASH
21,22	G	R	Y
71,72,73,74	-R	-	-R

SIGNAL FACE I.D.

All Heads L.E.D.



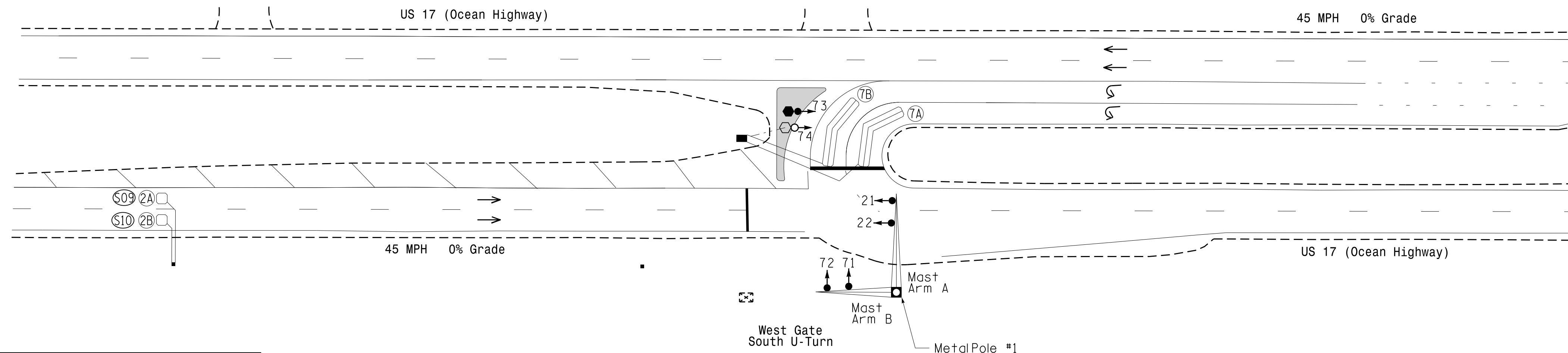
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
2A/S09	6X6	300	4	Y	2	Y	Y	-	-	-	Y	-
2B/S10	6X6	300	4	Y	2	-	-	-	-	-	Y	-
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-

2 Phase Fully Actuated
 US 17 (Ocean Highway) - Leland Superstreet
 D03-12 Leland

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- Renumber existing heads 11,12,13, and 14 as 71,72,73, and 74, respectively.
- Renumber existing loops 1A and 1B as 7A and 7B, respectively.
- 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.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal System data:
Controller Asset # 0976.



OASIS 2070 TIMING CHART

FEATURE	PHASE	
	2	7
Min Green 1 *	12	7
Extension 1 *	6.0	2.0
Max Green 1 *	90	30
Yellow Clearance	4.5	3.0
Red Clearance	1.3	2.3
Walk 1 *	-	-
Don't Walk 1	-	-
Seconds Per Actuation *	1.5	-
Max Variable Initial *	34	-
Time Before Reduction *	15	-
Time To Reduction *	50	-
Minimum Gap	3.0	-
Recall Mode	MIN RECALL	-
Vehicle Call Memory	YELLOW	-
Dual Entry	-	-
Simultaneous Gap	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 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
○ → Pedestrian Signal Head With Push Button & Sign	□ → Signal Pole with Guy
○ → Signal Pole with Sidewalk Guy	□ → Inductive Loop Detector
□ → Controller & Cabinet	□ → Junction Box
□ → Oversized Junction Box	□ → 2-in Underground Conduit
△ → Right of Way with Marker	△ → Directional Arrow
○ → Metal Pole with Mastarm	○ → Signal Pedestal

Signal Upgrade

Prepared in the Offices of:
 Transportation Mobility and Safety Solutions
 STATE OF CAROLINA
 Signal Design Section
 750 N. Greenfield Pkwy, Garner, NC 27529

US 17 (Ocean Highway) at West Gate South U-Turn
 Division 3 Brunswick County Leland
 PLAN DATE: October 2021 REVIEWED BY: MEL
 PREPARED BY: Jeff Spence REVIEWED BY:

SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 MICHAEL E. LEBLANC
 PROFESSIONAL ENGINEER
 042608
 10/26/2021
 DATE

SIG. INVENTORY NO. 03-0976