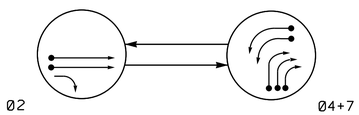
PROJECT REFERENCE NO.	SHEET NO.
2021CPT.03.31.10101	Sig.17.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 02	PHASE 04+7	FLASH
21, 22	G	R	Y
41, 42	R	→	R
71, 72	R	G	R
73, 74	~~R~~	←	~~R~~

SIGNAL FACE I.D.

All Heads L.E.D.

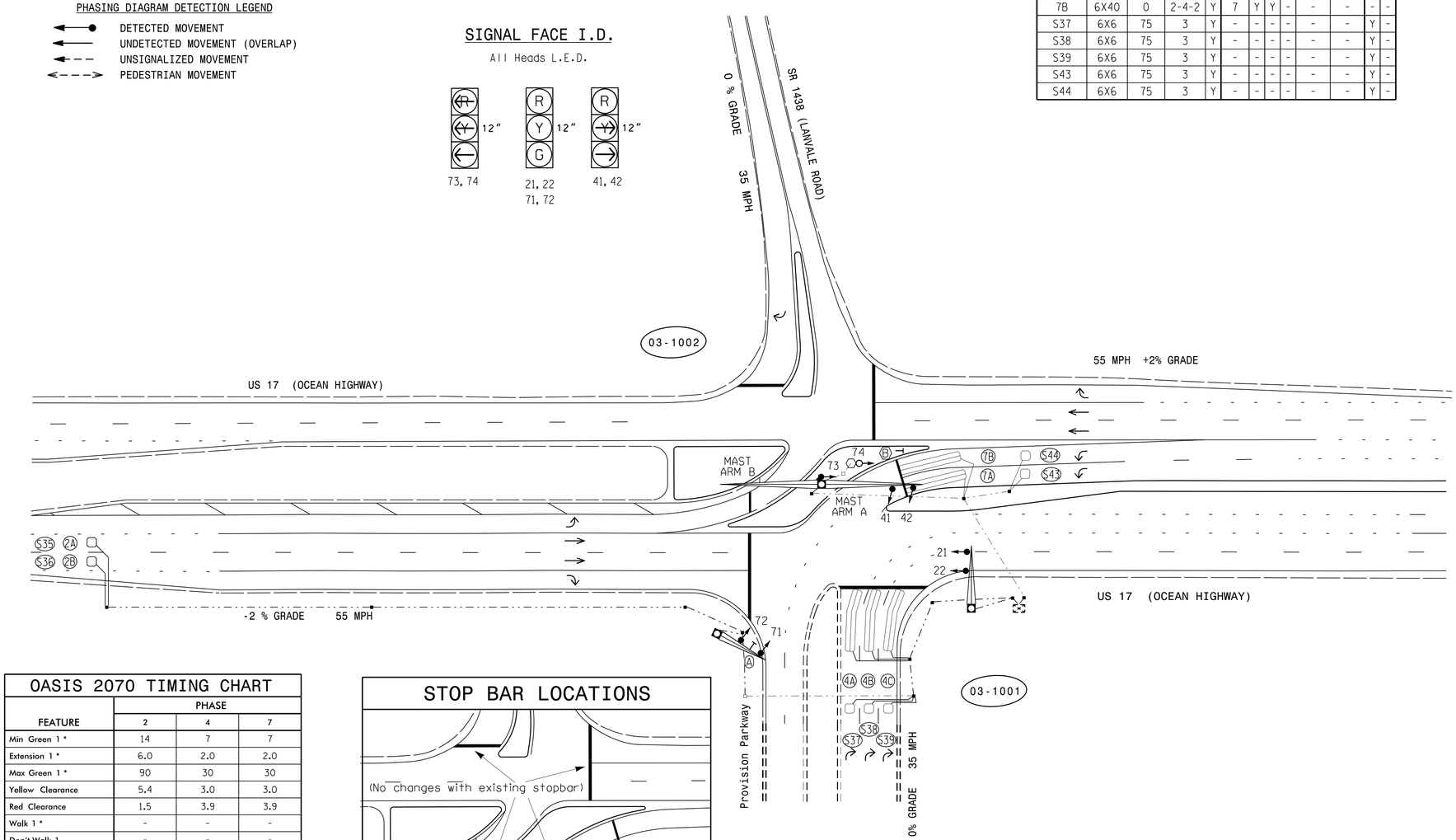
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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
2A/S35	6X6	420	6	Y	2	Y	Y	-	-	-	Y	-
2B/S36	6X6	420	6	Y	2	Y	Y	-	-	-	Y	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	-
4C	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	-
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-
S37	6X6	75	3	Y	-	-	-	-	-	-	Y	-
S38	6X6	75	3	Y	-	-	-	-	-	-	Y	-
S39	6X6	75	3	Y	-	-	-	-	-	-	Y	-
S43	6X6	75	3	Y	-	-	-	-	-	-	Y	-
S44	6X6	75	3	Y	-	-	-	-	-	-	Y	-

2 Phase
Fully Acutated
D03-12 Leland
US 17 (Ocean Hwy)-Leland Superstreet

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "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. Set all detector units to presence mode.
4. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
5. Closed loop system data: Controller Asset #1001.



LEGEND

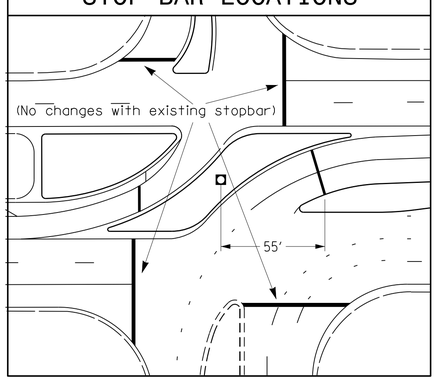
PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Metal Pole with Mastarm	
	Type II Signal Pedestal	
A	Through Arrow "ONLY" Sign (R3-5A)	A
B	Stop Here on Red (R10-6)	B

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 7
Min Green 1 *	14	7	7
Extension 1 *	6.0	2.0	2.0
Max Green 1 *	90	30	30
Yellow Clearance	5.4	3.0	3.0
Red Clearance	1.5	3.9	3.9
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	1.5	-	-
Max Variable Initial *	46	-	-
Time Before Reduction *	15	-	-
Time To Reduce *	50	-	-
Minimum Gap	3.4	-	-
Recall Mode	MIN RECALL	-	-
Vehicle Call Memory	YELLOW	-	-
Dual Entry	-	ON	ON
Simultaneous Gap	ON	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.

STOP BAR LOCATIONS



Signal Upgrade

Prepared In 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 0 40 1"=40'

US 17 (OCEAN HIGHWAY) At Provision Parkway

DIVISION 3 BRUNSWICK COUNTY LELAND

PLAN DATE:	October 2021	REVIEWED BY:	MEL
PREPARED BY:	X. Han	REVIEWED BY:	

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042608 ENGINEER MEGHAN E. LEBLANC

DocuSigned by: Meghan E. LeBlanc B2B0DAB23630498 10/26/2023 DATE

SIG. INVENTORY NO. 03-1001

27-OCT-2021 08:19
S:\TPB\SUAIS\Signals\Signal Design Section\Eastern Region\Div-03\US 17 Leland 2022 Resurfacing\03-1001\031001_sig_dsn_2021mdd.dgn
jrpeace