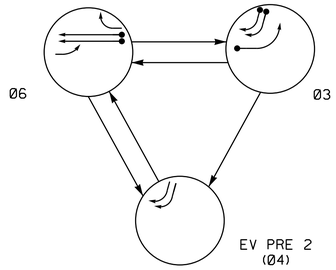
PROJECT REFERENCE NO.	SHEET NO.
W-5103A	Sig. 7.0

Roadway Sheet 21

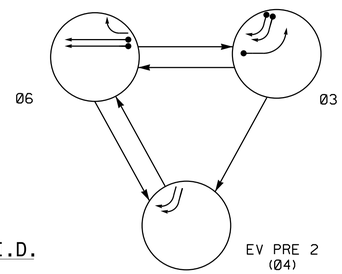
DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø6	PHASE Ø3	PHASE EVP 2	PHASE FLASH
31	~~F Y~~	←	~~R~~	~~Y~~
32, 33	R	→	→	R
61, 62	G	R	R	Y

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø6	PHASE Ø3	PHASE EVP 2	PHASE FLASH
31	~~R~~	←	~~R~~	~~Y~~
32, 33	R	→	→	R
61, 62	G	R	R	Y

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
3A	6x40	0	2-4-2	Y	3	Y	Y	–	–	✳10	–	–
3B	6x40	0	2-4-2	–	3	Y	Y	–	–	15	–	–
3C	6x40	0	2-4-2	–	3	Y	Y	–	–	15	–	–
6A	6x6	300	5	Y	6	Y	Y	–	–	–	–	–
6B	6x6	300	5	Y	6	Y	Y	–	–	–	–	–
S1	6x6	300	5	Y	–	–	–	–	–	–	Y	–
S2	6x6	300	3	–	–	–	–	–	–	–	Y	–

✳Disable delay during Alternate Phasing Operation

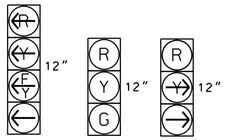
2 Phase
Fully Actuated
w/ Emergency Vehicle Preempt
Wilmington Signal System

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. Set all detector units to presence mode.
4. Emergency vehicle preemption switch is located in Fire Department.
5. The City Traffic Engineer will determine the Delay Time and Preempt Dwell Min Time for the emergency vehicle preemption timing.
6. The City Traffic Engineer will determine the hours of use for each phasing plan.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Signal system data:
   Controller Asset #: 0753.

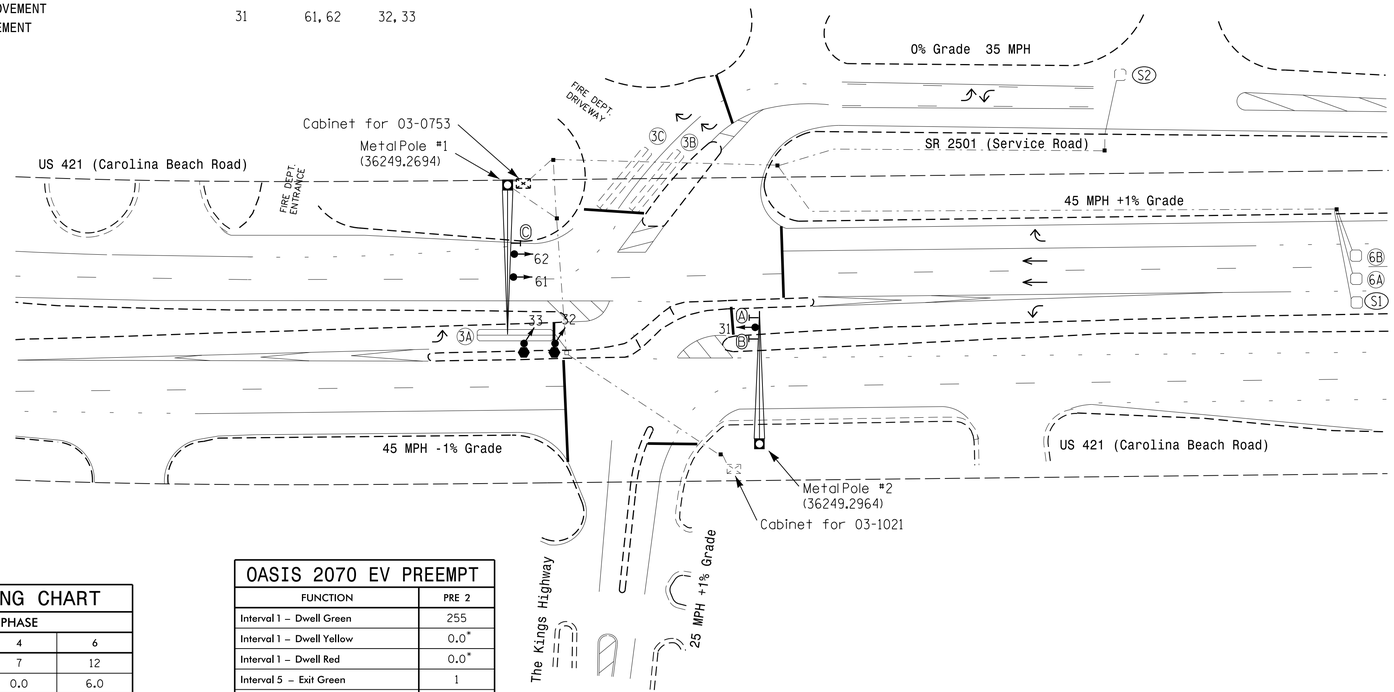
SIGNAL FACE I.D.

All Heads L.E.D.



PHASING DIAGRAM DETECTION LEGEND

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



LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
▯↓	Pedestrian Signal Head With Push Button & Sign	■↓
○	Metal Pole with Mastarm	●
⬡	Signal Pedestal	⬢
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
·-·-·	2-in Underground Conduit	·-·-·
N/A	Right of Way	– – –
→	Directional Arrow	→
Ⓐ	Left Arrow "ONLY" Sign (R3-5L)	Ⓐ
Ⓑ	No U-Turn Sign (R3-4)	Ⓑ
Ⓒ	Right "ONLY" Sign (R3-5R)	Ⓒ

OASIS 2070 TIMING CHART

FEATURE	PHASE 3	PHASE 4	PHASE 6
Min Green 1 *	7	7	12
Extension 1 *	2.0	0.0	6.0
Max Green 1 *	25	16	120
Yellow Clearance	3.0	3.2	4.4
Red Clearance	3.1	1.3	1.8
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	-	-	1.5
Max Variable Initial *	-	-	34
Time Before Reduction *	-	-	30
Time To Reduce *	-	-	60
Minimum Gap	-	-	3.0
Recall Mode	-	-	MIN RECALL
Vehicle Call Memory	-	-	YELLOW
Dual Entry	-	-	-
Simultaneous Gap	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

OASIS 2070 EV PREEMPT

FUNCTION	PRE 2
Interval 1 – Dwell Green	255
Interval 1 – Dwell Yellow	0.0*
Interval 1 – Dwell Red	0.0*
Interval 5 – Exit Green	1
Interval 5 – Yellow	0.0
Interval 5 – Red	0.0
Exit Phase(s)	6
Priority	Medium
Delay Time	✳✳✳
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	✳✳✳
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-
Preempt Extend**	-

* Time defaults to time used for phase during normal operation
** Program Timing on Optical Detection Unit
*** See Note #5

Signal Upgrade

REVISION ▽ SEAL

NORTH CAROLINA PROFESSIONAL SEAL 023489 ENGINEER PAMELA L. ALEXANDER

DocuSigned by: P L Alexander B4756E0DCE4E40D... 7/22/15 DATE

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

SCALE 0 40 1"=40'

US 421 (Carolina Beach Road)
at
SR 2501 (Service Road) / Fire Dept.

Division 3 | New Hanover County | Myrtle Grove

PLAN DATE: March 2008 | REVIEWED BY:
PREPARED BY: R. Hinshaw | REVIEWED BY:

REVISIONS	INIT.	DATE
▽ Modify heads 32, 33; revise Head 31 flash and renumber existing phase 3 heads.	PLA	12/22/14
▽ Install loops. (kgp)	pla	7/22/15

Not a certified document as to the Original Document but Only as to the Revisions - This document originally Issued and sealed by F.Royal Hinshaw,PE-#032117 on 7/29/2008 This document is only certified as to the revisions.

SIG. INVENTORY NO. 03-0753

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