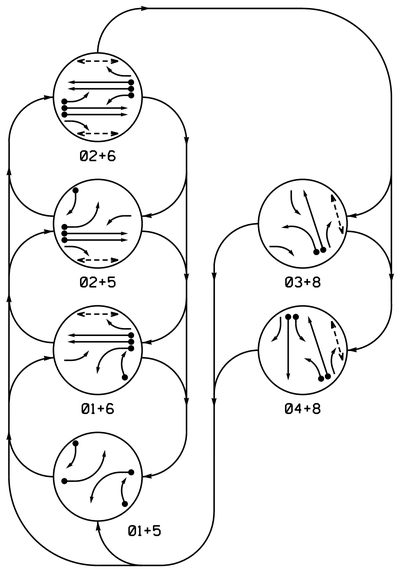
PROJECT REFERENCE NO.	SHEET NO.
U-4902D	Sig. 7.0

DEFAULT PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

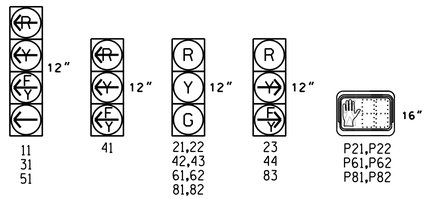
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+8	04+8	FLASH
11	←-	←-	F/Y	F/Y	~~R~~	~~R~~	~~Y~~
21,22	R	R	G	G	R	R	Y
23	R	R	F/Y	F/Y	F/Y	R	~~Y~~
31	~~R~~	~~R~~	~~R~~	~~R~~	←-	F/Y	~~R~~
41	~~R~~	~~R~~	~~R~~	~~R~~	F/Y	F/Y	~~R~~
42,43	R	R	R	R	R	G	R
44	F/Y	R	F/Y	R	R	F/Y	R
51	←-	F/Y	←-	F/Y	~~R~~	~~R~~	~~Y~~
61,62	R	G	R	G	R	R	Y
81,82	R	R	R	R	G	G	R
83	F/Y	F/Y	R	R	F/Y	F/Y	R
P21,P22	DW	DW	W	W	DW	DW	DRK
P61,P62	DW	W	DW	W	DW	DW	DRK
P81,P82	DW	DW	DW	DW	W	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



11
31
51

41

21,22
42,43
61,62
81,82

23
44
83

P21,P22
P61,P62
P81,P82

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

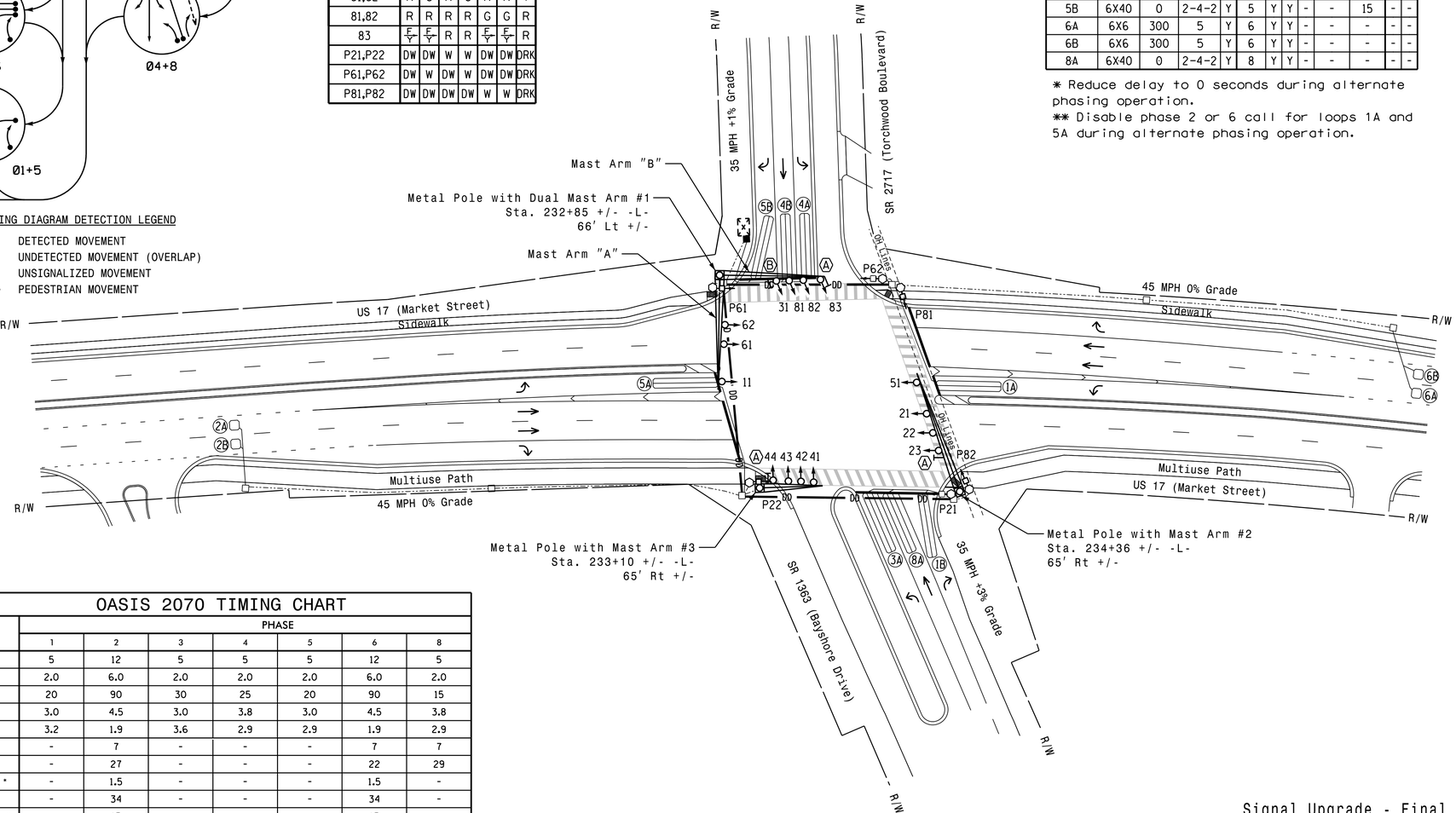
INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	*10	-	-
					**6	Y	Y	-	-	-	-	-
1B	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	-
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	-
2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	-
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	10	-	-
					8	Y	Y	-	-	-	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	3	-	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	*10	-	-
					**2	Y	Y	-	-	-	-	-
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	-
6A	6X6	300	5	Y	6	Y	Y	-	-	-	-	-
6B	6X6	300	5	Y	6	Y	Y	-	-	-	-	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	-

* Reduce delay to 0 seconds during alternate phasing operation.
** Disable phase 2 or 6 call for loops 1A and 5A during alternate phasing operation.

6 Phase
Fully Actuated
Wilmington Signal System

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. Phase 1 and/or 5 may be lagged.
4. Phase 3 may be lagged.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
8. All pedestrian pushbuttons shall be located in the field by the Division Traffic Engineer before installation.
9. The Division Traffic Engineer will determine the hours of use for each phasing plan.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Signal system data: Controller Asset #0369



OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	8
Min Green 1 *	5	12	5	5	5	12	5
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0
Max Green 1 *	20	90	30	25	20	90	15
Yellow Clearance	3.0	4.5	3.0	3.8	3.0	4.5	3.8
Red Clearance	3.2	1.9	3.6	2.9	2.9	1.9	2.9
Walk 1 *	-	7	-	-	-	7	7
Don't Walk 1	-	27	-	-	-	22	29
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	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	●→
⊣	Sign	⊣
▯	Pedestrian Signal Head With Push Button & Sign	■
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊡
□	Junction Box	■
·-·-·	2-in Underground Conduit	·-·-·
N/A	Right of Way	———
→	Directional Arrow	→
—DD—	Directional Drill	N/A
⬡	Type II Signal Pedestal	⬢
	Wheelchair Ramp	
Ⓐ	"RIGHT TURN MUST YIELD TO U-TURN" Sign	Ⓐ
Ⓑ	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓑ

Signal Upgrade - Final Design
Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

US 17 (Market Street) at
SR 1363 (Bayshore Drive)/
SR 2717 (Torchwood Boulevard)

Division 03 New Hanover Co. Wilmington

PLAN DATE: February 2018 | REVIEWED BY: A.D. Klinksiek
PREPARED BY: A.H. Thornburg | REVIEWED BY: N.R. Simmons

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 031464 ENGINEER NATASHA R. SIMMONS

DocuSigned by: Natasha R. Simmons 8/1/2018
SIGNATURE DATE

SIG. INVENTORY NO. 03-0369