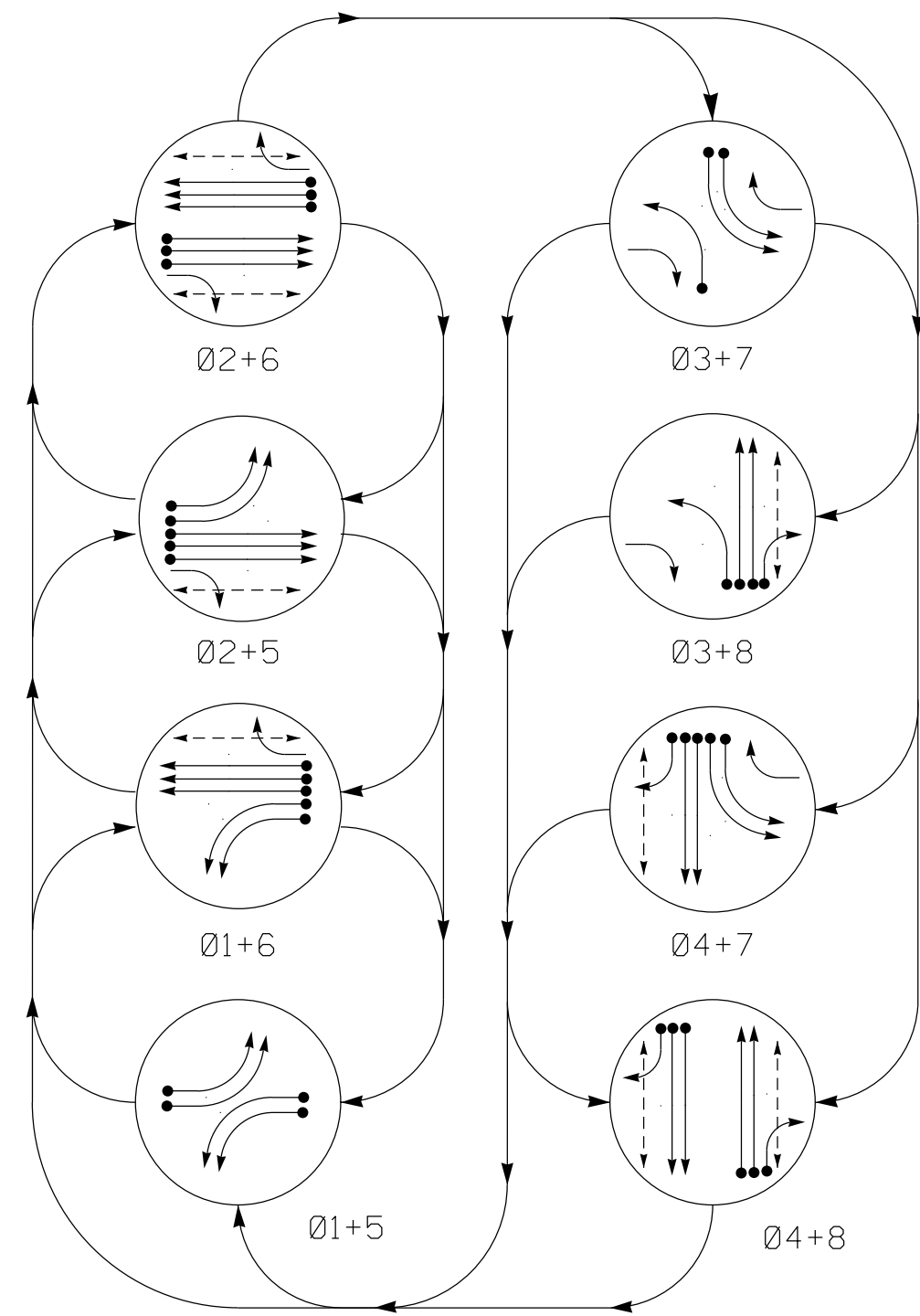


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

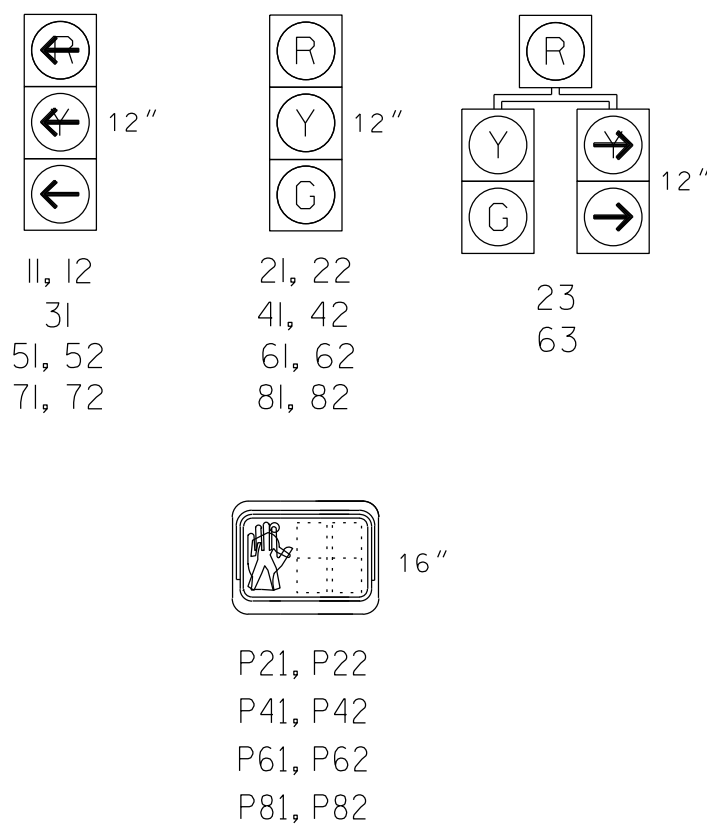
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ⇄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	Ø1 1+5	Ø2 2+6	Ø3 3+7	Ø4 4+8	Ø5 5+6	Ø6 6+7	Ø7 7+8	Ø8 8+7
1L, 1R	←	←	←	←	←	←	←	←
2L, 2R	R	R	G	G	R	R	R	Y
3L	R	R	G	G	R	R	R	Y
4L, 4R	R	R	R	R	R	R	G	G
5L, 5R	←	←	←	←	←	←	←	←
6L, 6R	R	G	R	G	R	R	R	Y
63	R	G	R	G	R	R	R	Y
7L, 7R	←	←	←	←	←	←	←	←
8L, 8R	R	R	R	R	R	G	R	G
P21, P22	DW	DW	W	W	DW	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



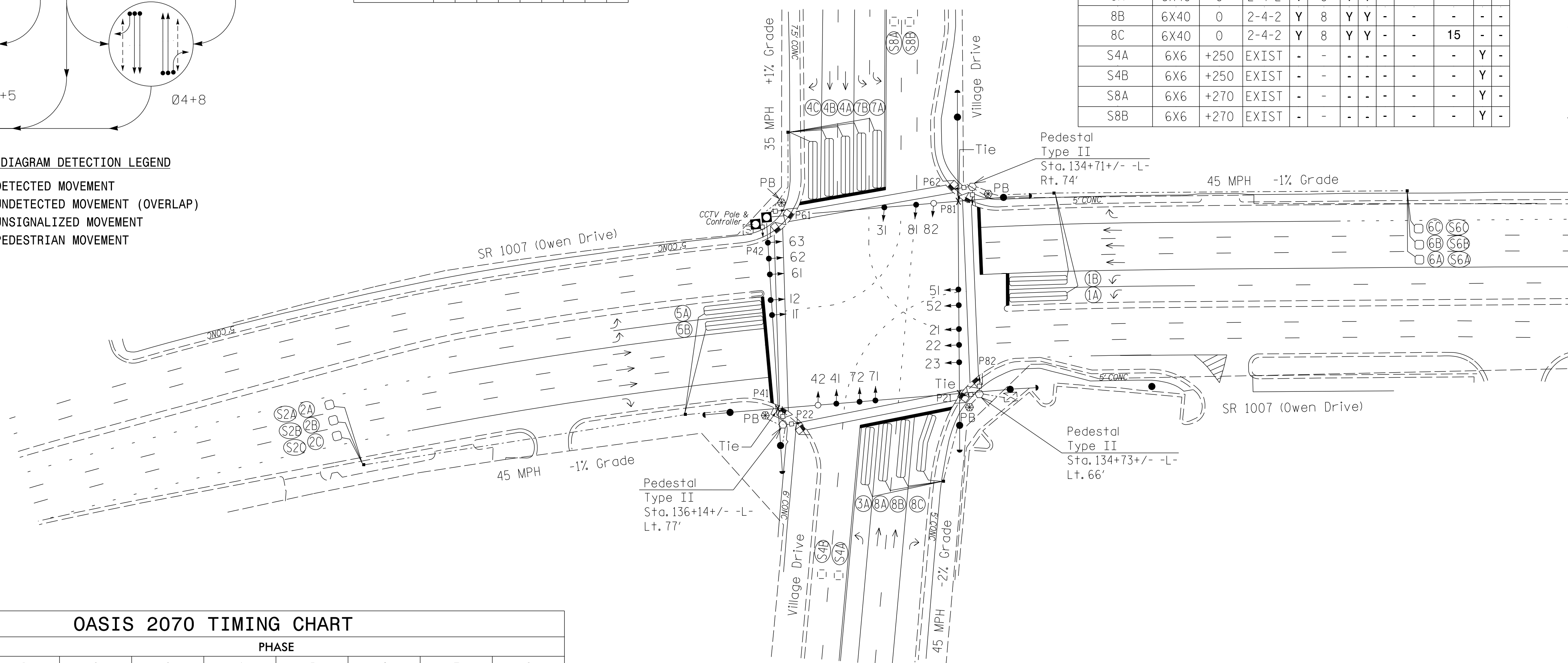
OASIS 2070 LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	-	-	-
1B	6X40	0	2-4-2	Y	1	Y	Y	-	-	-	-	-
2A/S2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B/S2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2C/S2C	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
3A	6X40	0	2-4-2	Y	3	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	-	-	15	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-	-	-
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	-	-	-
6A/S6A	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y
6B/S6B	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y
6C/S6C	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	-
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	-
8C	6X40	0	2-4-2	Y	8	Y	Y	-	-	15	-	-
S4A	6X6	+250	EXIST	-	-	-	-	-	-	-	-	Y
S4B	6X6	+250	EXIST	-	-	-	-	-	-	-	-	Y
S8A	6X6	+270	EXIST	-	-	-	-	-	-	-	-	Y
S8B	6X6	+270	EXIST	-	-	-	-	-	-	-	-	Y

8 Phase Fully Actuated Fayetteville Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing unless otherwise shown.
- Remove existing "U-Turn Yield to Right Turn" sign (R10-16).
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Closed loop system data: Controller Asset # 0058.



OASIS 2070 TIMING CHART

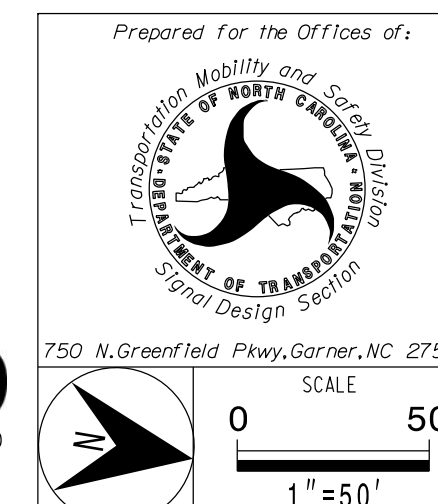
FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	15	90	25	25	15	90	25	25
Yellow Clearance	3.0	4.6	3.0	3.8	3.0	4.6	3.0	4.7
Red Clearance	4.1	2.2	3.5	3.1	3.8	2.2	3.7	2.4
Walk 1 *	-	7	-	7	-	7	-	7
Don't Walk 1	-	30	-	32	-	30	-	33
Seconds Per Actuation *	-	1.0	-	-	-	1.0	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduction *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	-
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 Traffic Signal Head | | EXISTING Traffic Signal Head |
| | PROPOSED Modified Signal Head | | EXISTING Modified Signal Head |
| | PROPOSED Pedestrian Signal Head With Push Button & Sign | | EXISTING Pedestrian Signal Head |
| | PROPOSED Signal Pole with Guy | | EXISTING Signal Pole with Sidewalk Guy |
| | PROPOSED Inductive Loop Detector | | EXISTING Inductive Loop Detector |
| | PROPOSED Controller & Cabinet | | EXISTING Controller & Cabinet |
| | PROPOSED Junction Box | | EXISTING Junction Box |
| | PROPOSED 2-in Underground Conduit | | EXISTING 2-in Underground Conduit |
| | PROPOSED Right of Way | | EXISTING Right of Way |
| | PROPOSED Directional Arrow | | EXISTING Directional Arrow |
| | PROPOSED Pavement Marking Arrow | | EXISTING Pavement Marking Arrow |
| | PROPOSED Metal Strain Pole | | EXISTING Metal Strain Pole |
| | PROPOSED Type II Pedestal | | EXISTING Type II Pedestal |
| | PROPOSED Pedestrian Pushbutton on Type I Pedestal | | EXISTING Pedestrian Pushbutton |
| | PROPOSED Stopbar | | EXISTING Stopbar |

Signal Upgrade



SR 1007 (Owen Drive) at Village Drive		
Division 6	Cumberland County	Fayetteville
PLAN DATE: April 2015	REVIEWED BY: J.L. Lewis	
PREPARED BY: D.J. Darity	VHB PROJECT NO.: 38286.03	
REVISIONS	INIT.	DATE

