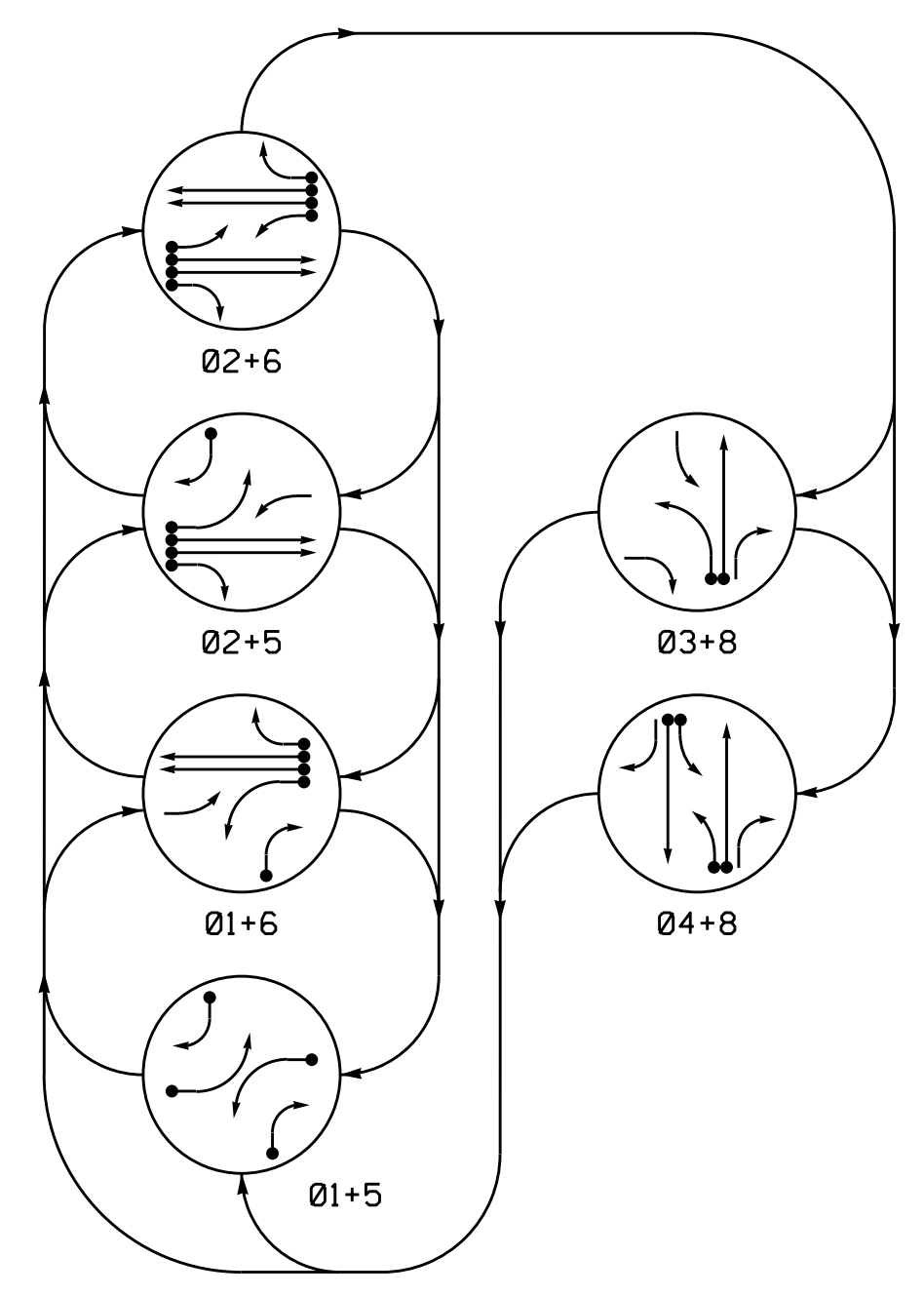
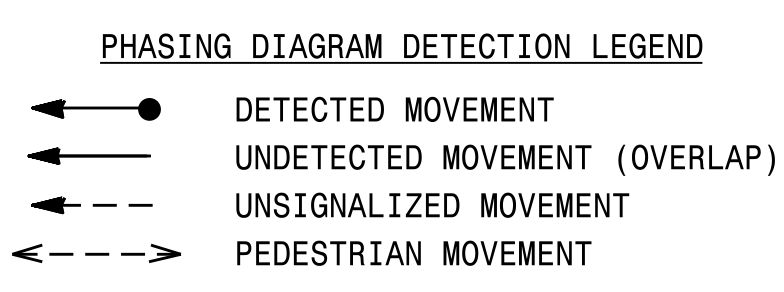
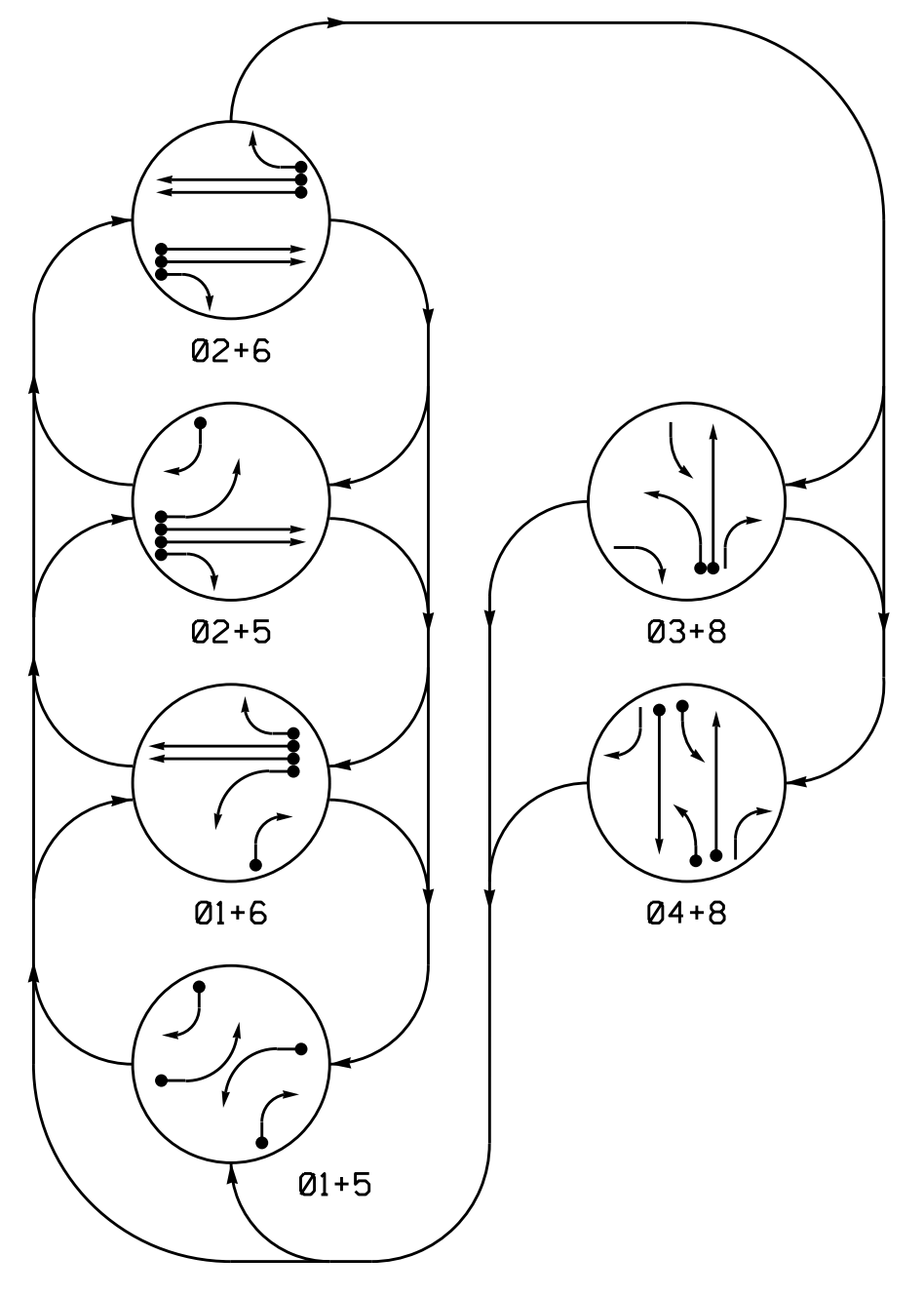


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



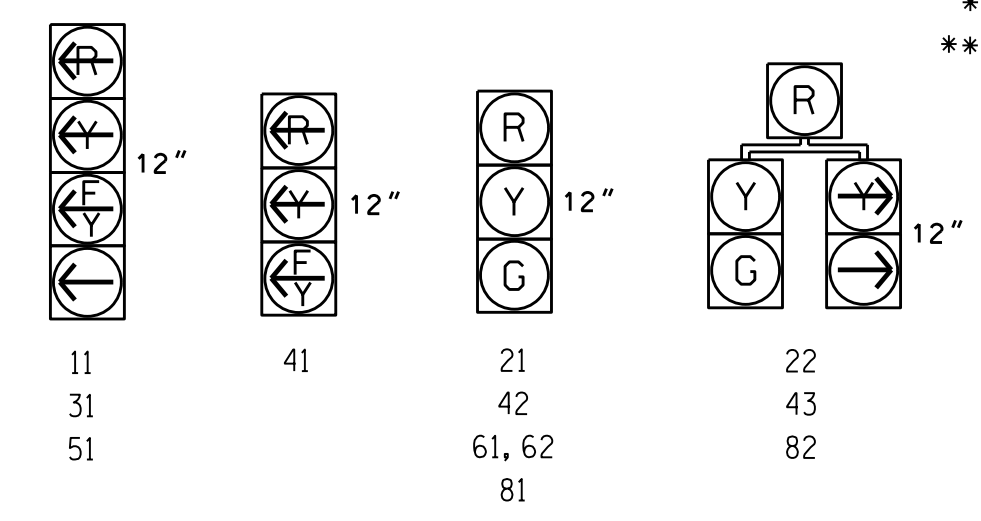
DEFAULT TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+8	04+8	01+5	01+6
11								
21	R	R	G	G	R	R	Y	
22	R	R	G	G	R	R	Y	
31	R	R	R	R	R	R		
41	R	R	R	R	R	R		
42	R	R	R	R	R	R		
43	R	R	R	R	R	R		
51								
61,62	R	G	R	G	R	R	Y	
81	R	R	R	R	R	R		
82	R	R	R	R	R	R		

ALTERNATE TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+8	04+8	01+5	01+6
11								
21	R	R	G	G	R	R	Y	
22	R	R	G	G	R	R	Y	
31	R	R	R	R	R	R		
41	R	R	R	R	R	R		
42	R	R	R	R	R	R		
43	R	R	R	R	R	R		
51								
61,62	R	G	R	G	R	R	Y	
81	R	R	R	R	R	R		
82	R	R	R	R	R	R		

SIGNAL FACE I.D.  
All Heads L.E.D.



\*Disable delay during alternate phasing operation.  
\*\* Disable phases 2 and 6 call during alternate phasing operation.

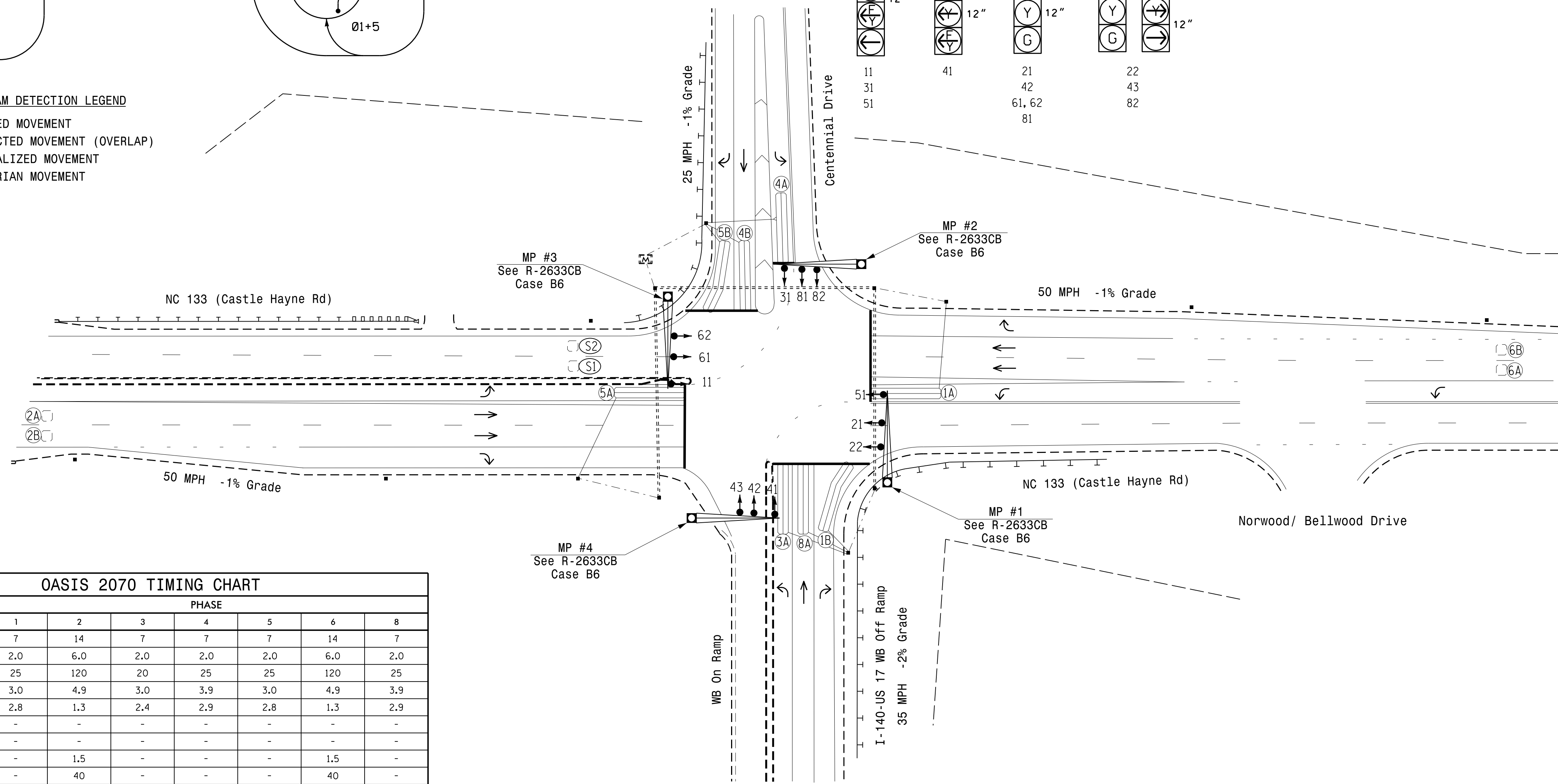
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD
				PHASE	CALLING	EXTENSION	STRETCH TIME		
1A	6X40	0	2-4-2	Y	1	Y	Y	*15	-
1B	6X40	0	2-4-2	Y	1	Y	Y	3	-
2A,2B	6X6	355	5	-	2	Y	Y	-	-
3A	6X40	0	2-4-2	Y	3	Y	Y	15	-
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	*15	-
5B	6X40	0	2-4-2	Y	5	Y	Y	15	-
6A,6B	6X6	355	5	-	6	Y	Y	-	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-
S1	6X6	+160	4	-	-	-	-	-	Y
S2	6X6	+160	4	-	-	-	-	-	Y

6 Phase Fully Actuated  
NC 133 (Castle Hayne Rd) CLS

NOTES

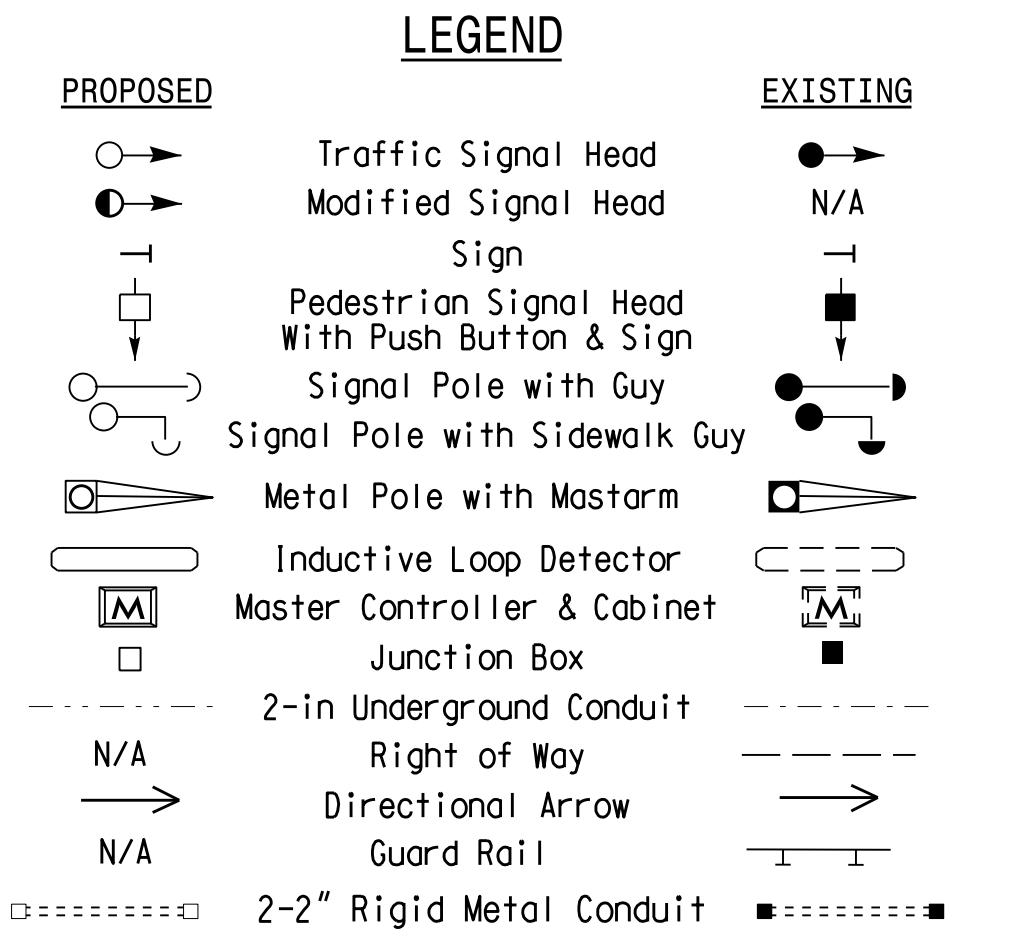
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 may be lagged.
- Set all detector units to presence mode.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Master Asset #10327, Controller Asset #0424.



**OASIS 2070 TIMING CHART**

FEATURE	PHASE							
	1	2	3	4	5	6	8	
Min Green 1 *	7	14	7	7	7	14	7	
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	
Max Green 1 *	25	120	20	25	25	120	25	
Yellow Clearance	3.0	4.9	3.0	3.9	3.0	4.9	3.9	
Red Clearance	2.8	1.3	2.4	2.9	2.8	1.3	2.9	
Walk 1 *	-	-	-	-	-	-	-	
Don't Walk 1	-	-	-	-	-	-	-	
Seconds Per Actuation *	-	1.5	-	-	-	1.5	-	
Max Variable Initial *	-	40	-	-	-	40	-	
Time Before Reduction *	-	15	-	-	-	15	-	
Time To Reduce *	-	30	-	-	-	30	-	
Minimum Gap	-	3.1	-	-	-	3.1	-	
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.



Signal Upgrade

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

NC 133 (Castle Hayne Road) at I-140-US 17 WB Ramps/ Centennial Drive

Division 3 New Hanover County Wilmington

PLAN DATE: January 2016 REVIEWED BY: PLA, PE

PREPARED BY: EM Minshew REVIEWED BY:

REVISIONS: \_\_\_\_\_ INIT. DATE

SCALE: 0 40 1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: PAMELA L. ALEXANDER, PROFESSIONAL ENGINEER, No. 023489

2/16/16

SIG. INVENTORY NO. 03-0424

09-0424-2016-01.rvt  
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 emminshew