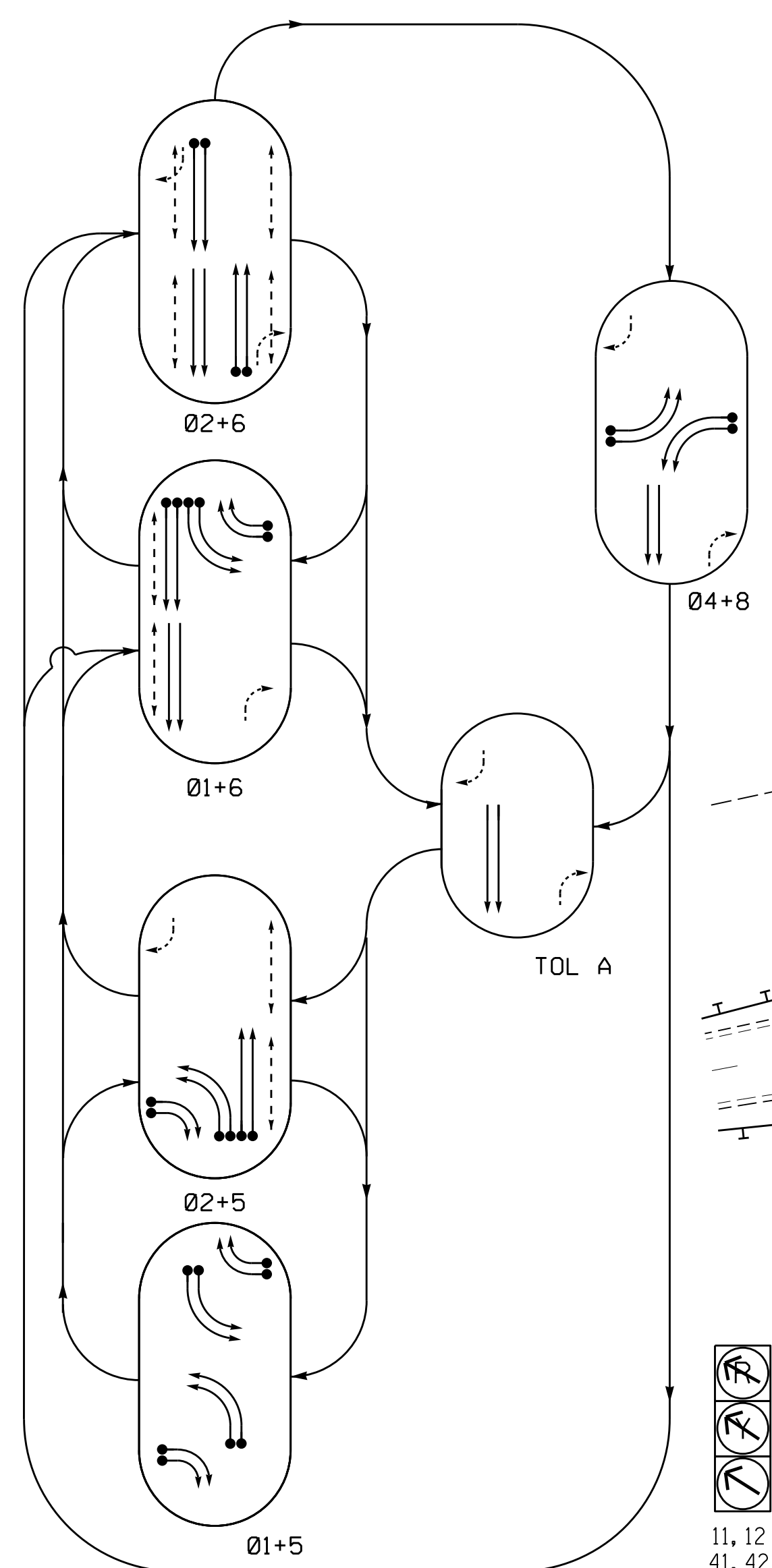


PHASING DIAGRAM



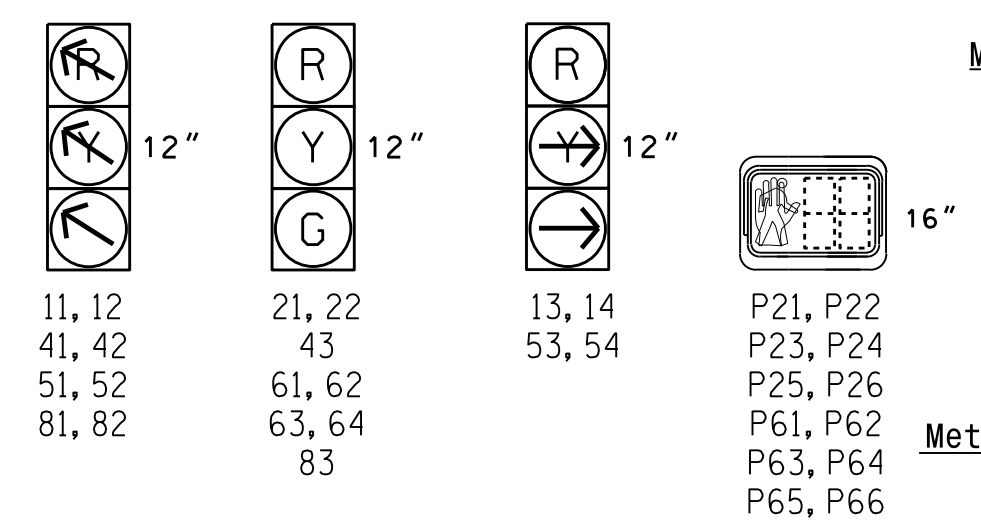
**PHASING DIAGRAM DETECTION LEGEND**

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

SIGNAL FACE	PHASE						
	01+5	01+6	02+5	02+6	TOL A	04+8	HEADS
11, 12	/	/	/	/	/	/	/
13, 14	/	/	/	/	/	/	/
21, 22	R	R	G	G	R	R	Y
41, 42	/	/	/	/	/	/	/
43	R	R	R	R	G	R	R
51, 52	/	/	/	/	/	/	/
53, 54	/	/	/	/	/	/	/
61, 62	R	G	R	G	R	R	Y
63, 64	R	G	R	G	R	R	Y
81, 82	/	/	/	/	/	/	/
83	R	R	R	R	G	R	R
P21, P22	DW	DW	W	W	DW	DW	DRK
P23, P24	DW	DW	W	W	DW	DW	DRK
P25, P26	DW	DW	W	W	DW	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK
P63, P64	DW	W	DW	W	DW	DW	DRK
P65, P66	DW	W	DW	W	DW	DW	DRK

W - Walk  
DW - Don't Walk  
DRK - Dark

SIGNAL FACE I.D.



FEATURE	PHASE						
	1	2	4	5	6	8	TOL A
Min Green *	7	12	7	7	12	7	4
Gap, Extension *	2.0	6.0	2.0	2.0	6.0	2.0	
Maximum Green 1 *	30	90	30	30	90	30	
Maximum Green 2 *	-	-	-	-	-	-	
Yellow Clear	3.2	4.6	3.4	3.2	4.6	3.3	4.4
Red Clear	5.2	4.2	5.6	4.7	3.6	4.4	1.0
Walk *	-	7	-	-	7	-	
Pedestrian Clear	-	10	-	-	9	-	
Added Initial *	-	1.5	-	-	1.5	-	
Maximum 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	-	
Lock Calls	NO	YES	NO	NO	YES	NO	
Dual Entry	-	-	ON	-	-	ON	
Simultaneous Gap	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.

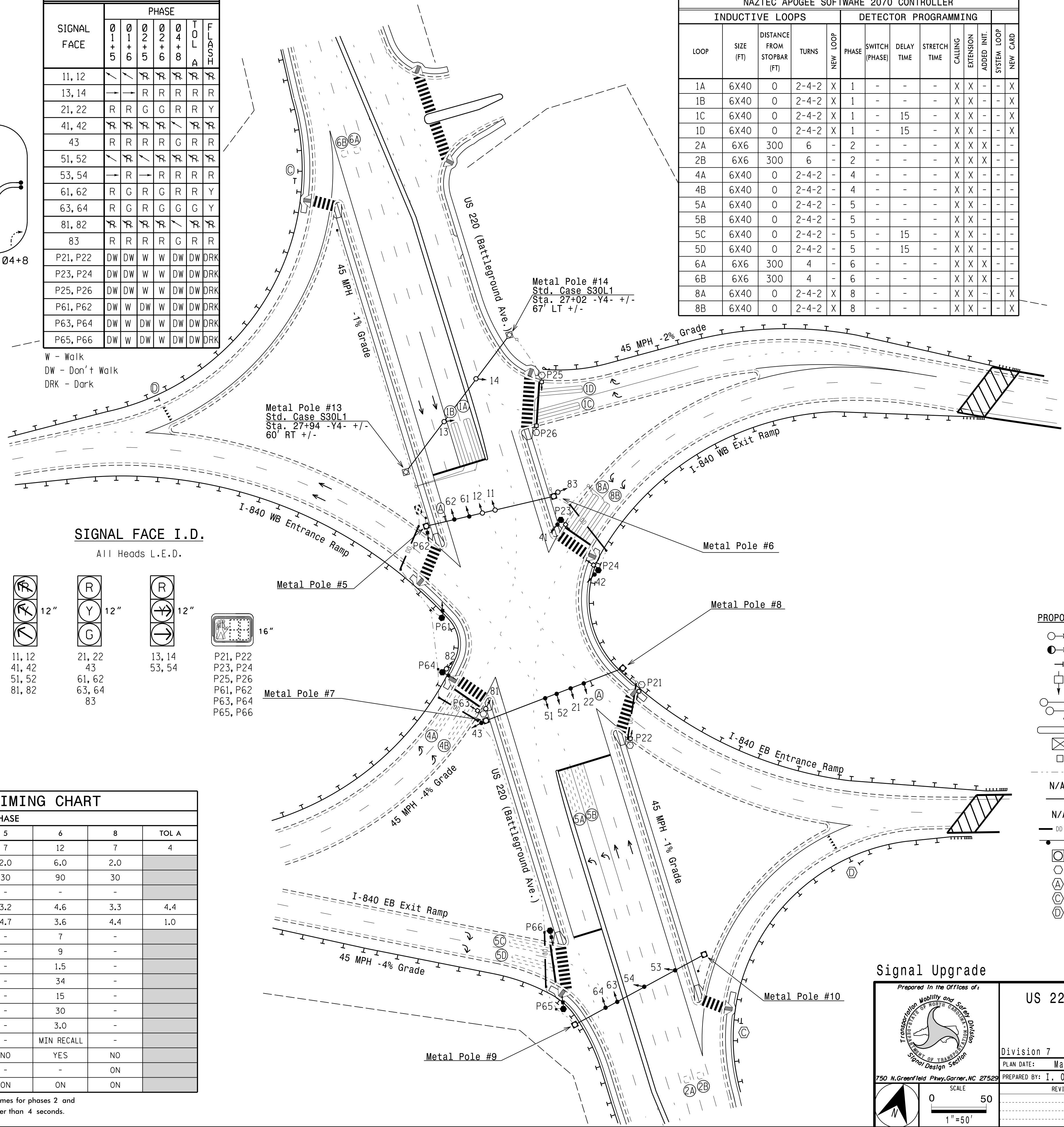
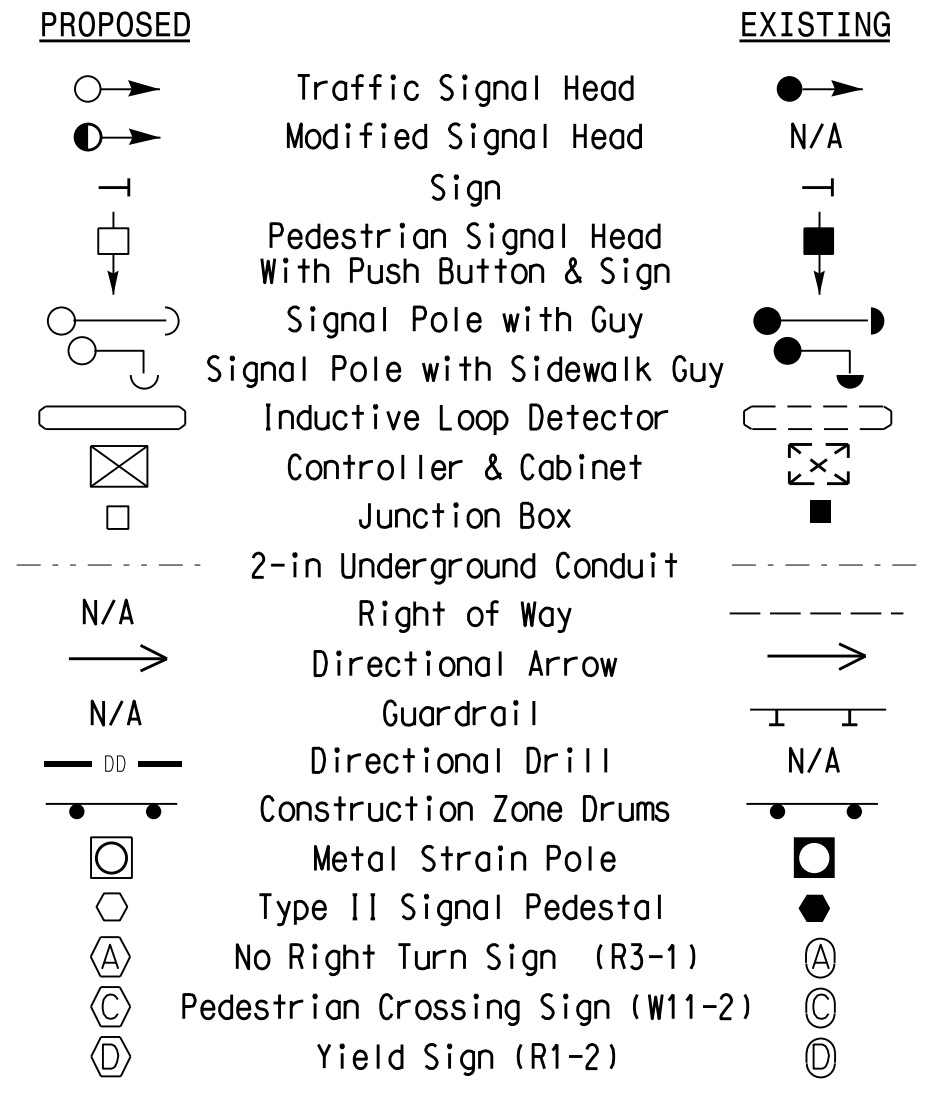
LOOP & DETECTOR UNIT INSTALLATION CHART											
NAZTEC APOGEE SOFTWARE 2070 CONTROLLER											
INDUCTIVE LOOPS						DETECTOR PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	SWITCH (PHASE)	DELAY TIME	STRETCH TIME	CALLING EXTENSION	ADDED INIT.	NEW CARD
1A	6X40	0	2-4-2	X	1	-	-	-	X	X	-
1B	6X40	0	2-4-2	X	1	-	-	-	X	X	-
1C	6X40	0	2-4-2	X	1	-	15	-	X	X	-
1D	6X40	0	2-4-2	X	1	-	15	-	X	X	-
2A	6X6	300	6	-	2	-	-	-	X	X	-
2B	6X6	300	6	-	2	-	-	-	X	X	-
4A	6X40	0	2-4-2	-	4	-	-	-	X	X	-
4B	6X40	0	2-4-2	-	4	-	-	-	X	X	-
5A	6X40	0	2-4-2	-	5	-	-	-	X	X	-
5B	6X40	0	2-4-2	-	5	-	-	-	X	X	-
5C	6X40	0	2-4-2	-	5	-	15	-	X	X	-
5D	6X40	0	2-4-2	-	5	-	15	-	X	X	-
6A	6X6	300	4	-	6	-	-	-	X	X	-
6B	6X6	300	4	-	6	-	-	-	X	X	-
8A	6X40	0	2-4-2	X	8	-	-	-	X	X	-
8B	6X40	0	2-4-2	X	8	-	-	-	X	X	-

5 Phase Fully Actuated (Greensboro 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.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND



Signal Upgrade

Prepared In the Offices of:

US 220 (Battleground Ave.) at I-840 Ramps

Division 7 Guilford County Greensboro

PLANNED BY: I. O. Umozurike REVIEWED BY:

PREPARED BY: I. O. Umozurike REVIEWED BY:

SCALE: 1"=50'

DATE: 4/19/2016

SIG. INVENTORY NO. 07-2176

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

27-Apr-2016 14:57  
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