

PHASING DIAGRAM

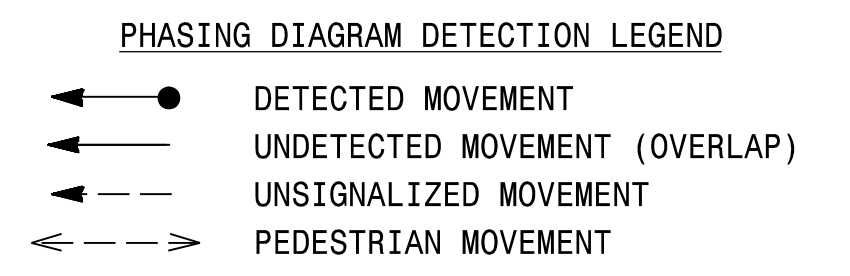
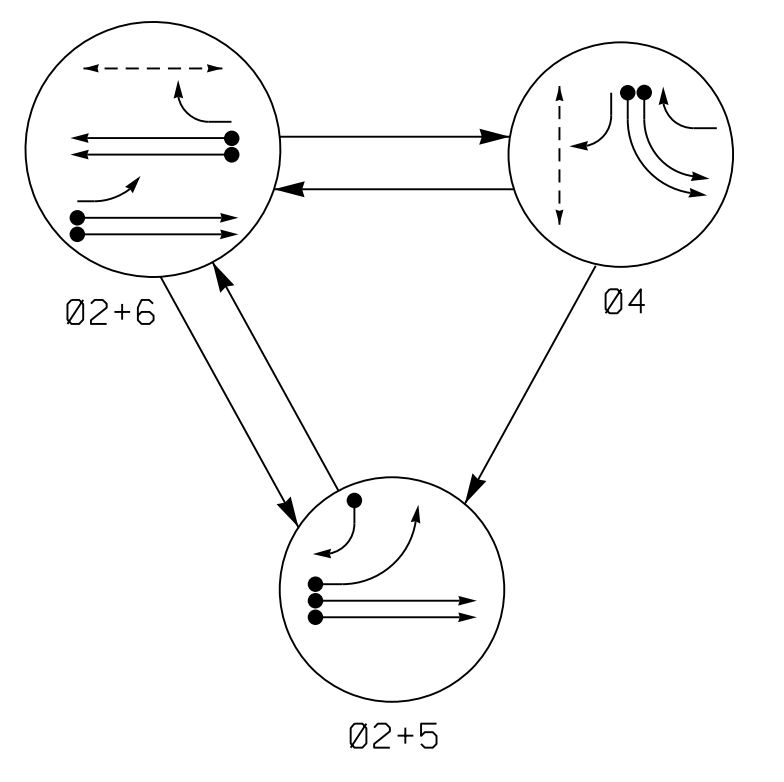
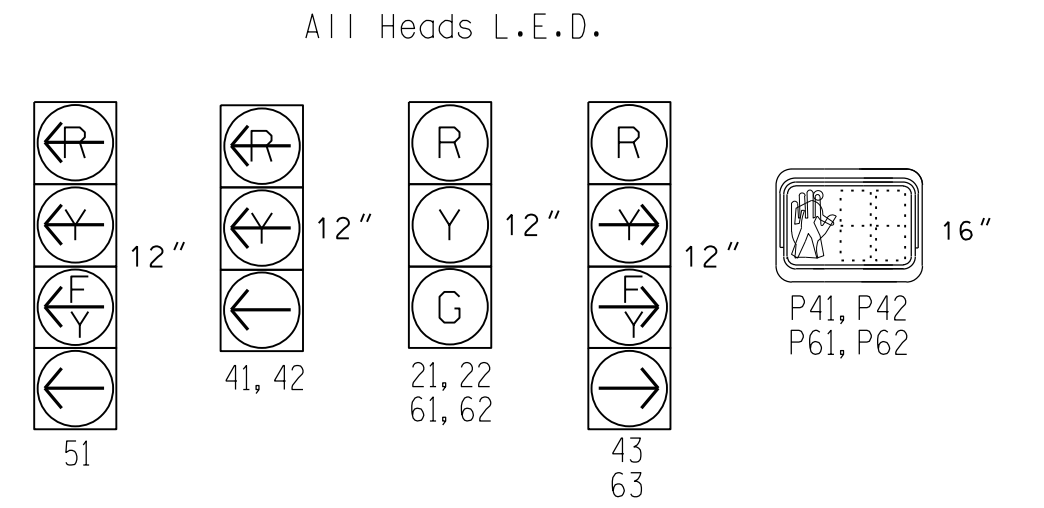


TABLE OF OPERATION

SIGNAL FACE	PHASE			
	02+5	02+6	04	FLASH
21, 22	G	G	R	Y
41, 42	←	←	←	←
43	→	→	→	→
51	←	←	←	←
61, 62	R	G	R	Y
63	R	←	←	←
P41, P42	DW	DW	W	DRK
P61, P62	DW	W	DW	DRK

SIGNAL FACE I.D.



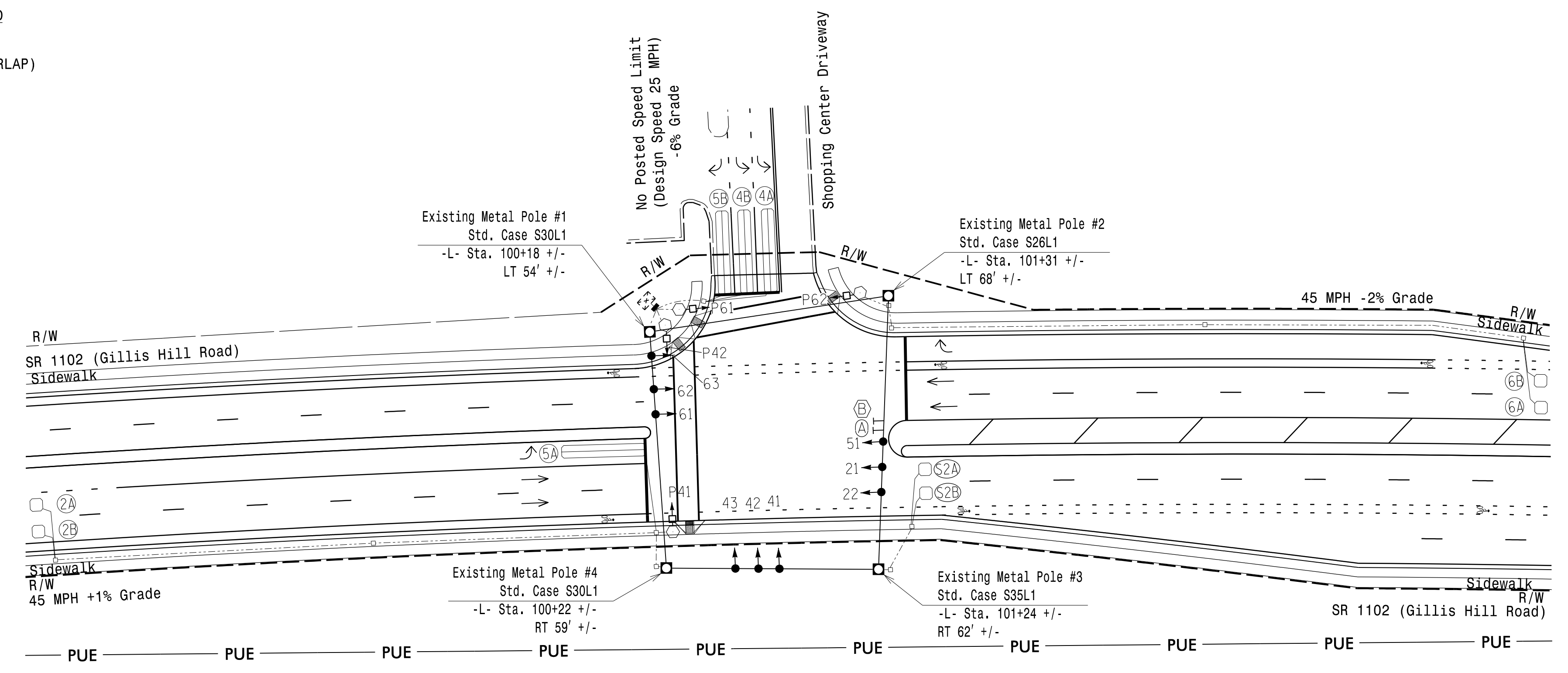
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP SYSTEM	NEW CARD
2A	6X6	300	5	X	2	YES	-	-	X	N	-	X
2B	6X6	300	5	X	2	YES	-	-	X	N	-	X
4A	6X40	0	2-4-2	X	4	YES	-	3	-	N	-	X
4B	6X40	0	2-4-2	X	4	YES	-	-	-	N	-	X
5A	6X40	0	2-4-2	X	5	YES	-	15	-	N	-	X
5B	6X40	0	2-4-2	X	5	YES	-	15	-	N	-	X
6A	6X6	300	5	X	6	YES	-	-	X	N	-	X
6B	6X6	300	5	X	6	YES	-	-	X	N	-	X
S2A	6X6	+125	4	X	-	NO	-	-	-	N	X	X
S2B	6X6	+125	4	X	-	NO	-	-	-	N	X	X

3 Phase Fully Actuated Fayetteville Signal System

NOTES

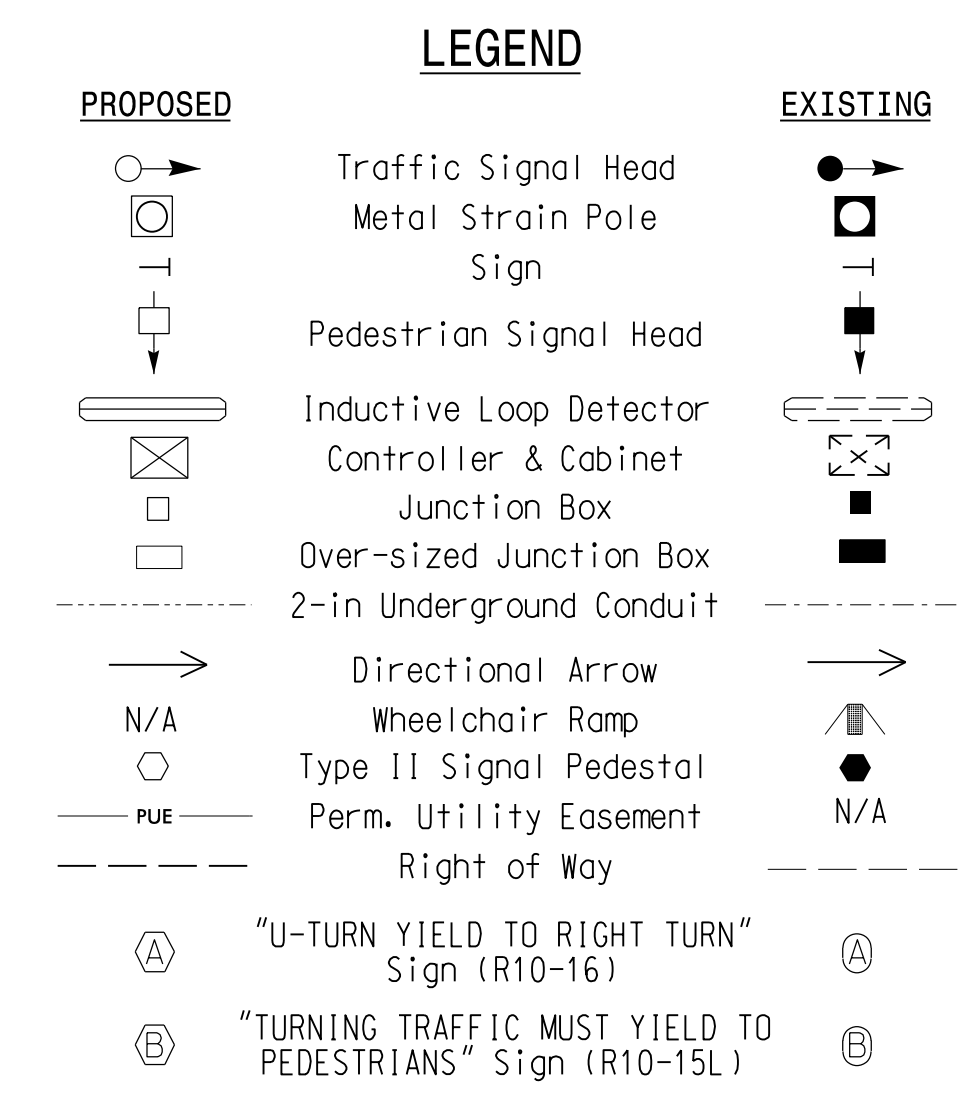
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Set all detector units to presence mode.
- Reposition existing signal heads 21, 22, 51, 61, 62, 63 as shown.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Portions of crosswalk not shown for clarity.



ASC/3 TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green *	12	7	7	12
Walk *	-	7	-	7
Ped Clear	-	22	-	13
Veh. Extension *	6.0	2.0	2.0	6.0
Max I *	50	30	20	50
Yellow	4.7	3.1	3.0	4.7
Red Clear	1.8	3.3	3.1	1.8
Actuations B4 Add *	0	-	-	0
Seconds / Actuation *	1.8	-	-	1.8
Max Initial *	34	-	-	34
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Locking Detector	X	-	-	X
Recall Position	VEH. RECALL	-	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	X	X	X	X

* 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.



05-11-2022 13:05
 R:\Projects\2022\1102 SR 1102\Drawings\Signal Design\Sheet 9.0.dwg
 C:\Users\jreid\OneDrive\Documents\Signal Design\Sheet 9.0.dwg
 JREID

Signal Upgrade - Final

5420 Wade Park Boulevard
Suite 350
Raleigh, NC 27607

SR 1102 (Gillis Hill Road)
at
Shopping Center Driveway

Division 6 Cumberland County Fayetteville

PLAN DATE: January 2022 REVIEWED BY: J. Reid

PREPARED BY: C. Evans REVIEWED BY:

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

Jonathan D. Reid
2022.01.05
14:58:58-05'00"

REVISIONS	INIT.	DATE

SCALE: 1" = 40'