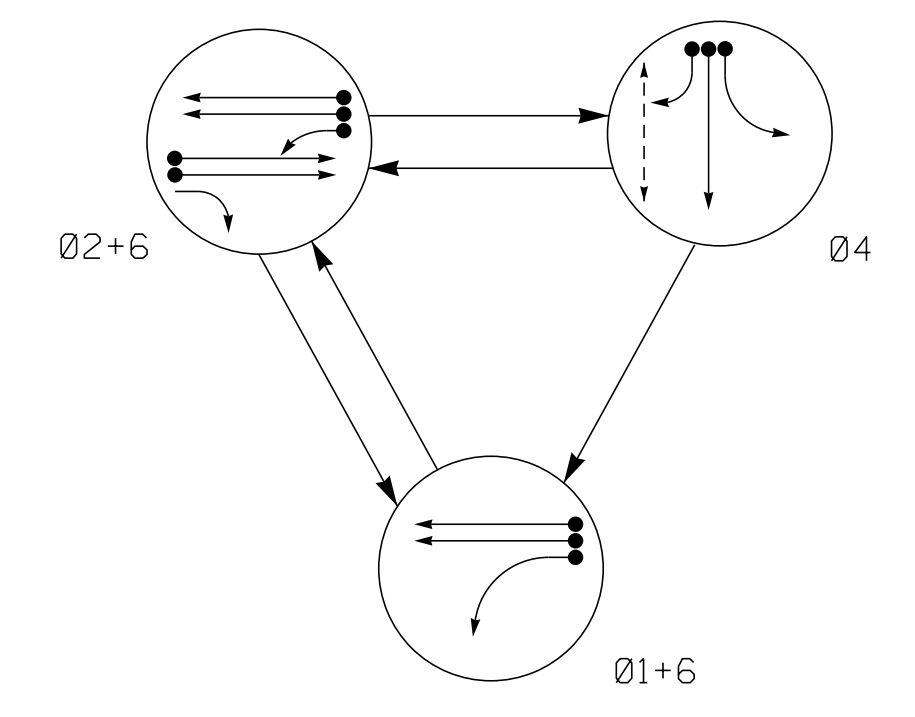


PHASING DIAGRAM

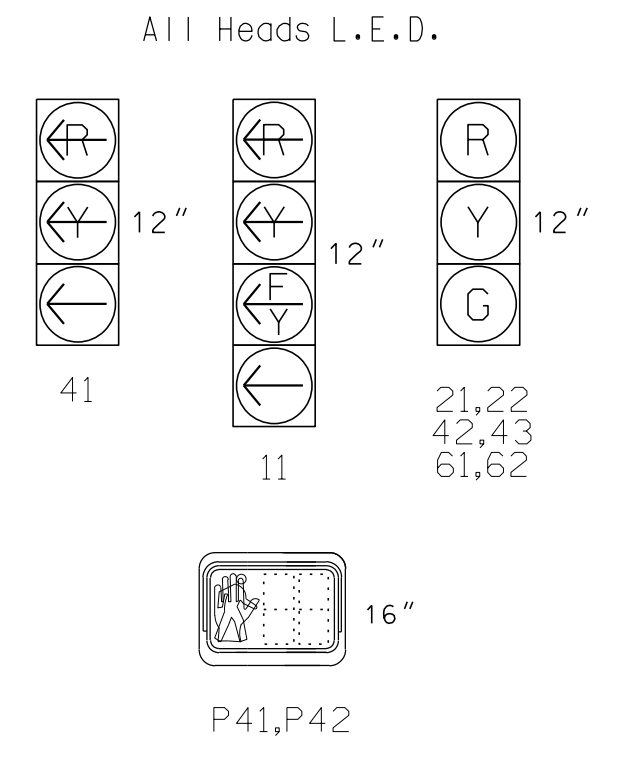


PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ○ UNDETECTED MOVEMENT (OVERLAP)
 - - - UNSIGNALIZED MOVEMENT
 - - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø 1 + 6	Ø 2 + 6	Ø 4	FLASH
11	←	→	←	→
21,22	R	G	R	Y
41	←	←	←	←
42,43	R	R	G	R
61,62	G	G	R	Y
P41,P42	DW	DW	W	DRK

SIGNAL FACE I.D.



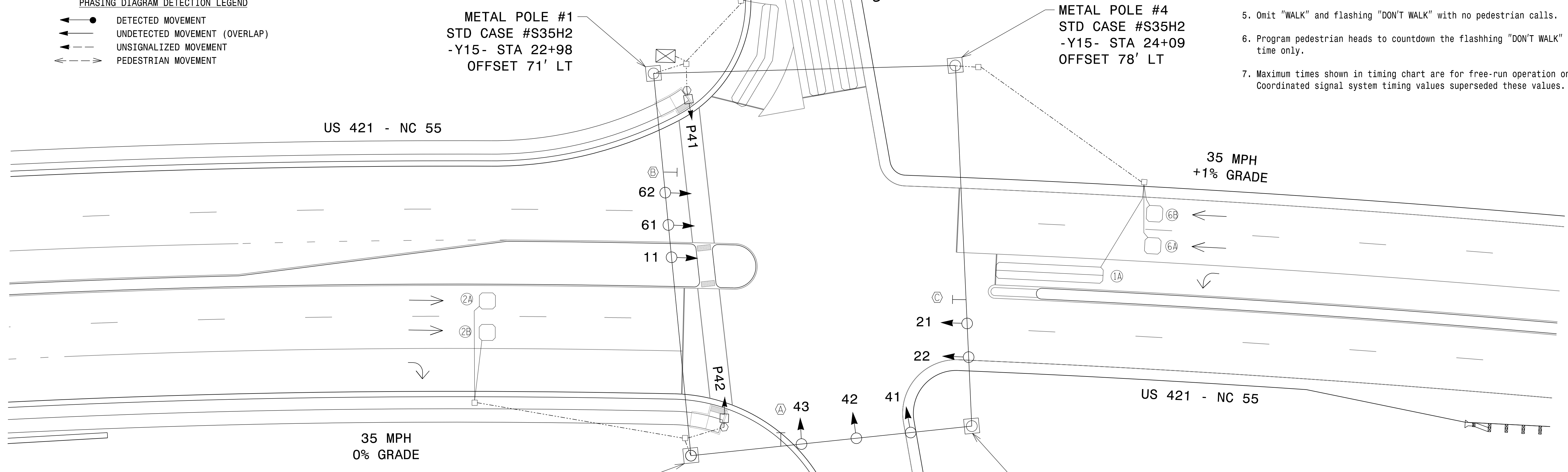
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	X	1	Yes	-	15	-	N	-	X
2A	6X6	70	4	X	2	Yes	-	-	-	N	-	X
2B	6X6	70	4	X	2	Yes	-	-	-	N	-	X
4A	6X40	0	2-4-2	X	4	Yes	-	-	-	N	-	X
4B	6X40	0	2-4-2	X	4	Yes	-	-	-	N	-	X
4C	6X40	0	2-4-2	X	4	Yes	-	15	-	N	-	X
6A	6X6	70	4	X	6	Yes	-	-	-	N	-	X
6B	6X6	70	4	X	6	Yes	-	-	-	N	-	X

3 Phase Fully Actuated Signal System #D06-02 Dunn US 421-NC 55 (Dunn)

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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values superseded these values.

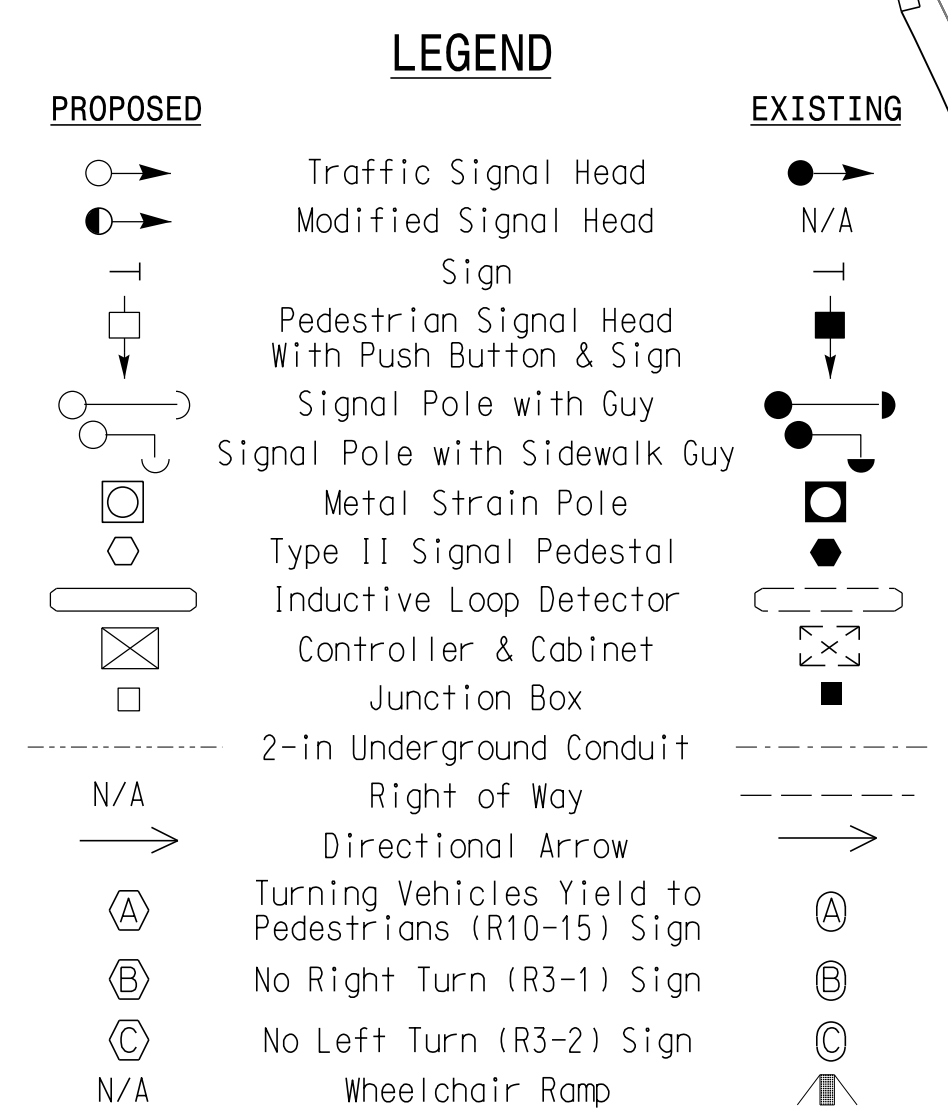


ASC/3 TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green *	7	10	7	10
Walk *	-	-	7	-
Ped Clear	-	-	27	-
Veh. Extension *	2.0	3.0	2.0	3.0
Max 1 *	20	60	20	60
Yellow	3.0	3.8	4.7	3.8
Red Clear	2.8	2.0	1.8	2.0
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-
Seconds / Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
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.

METAL POLE #2
 STD CASE #S35H2
 -Y15- STA 23+15
 OFFSET 71' RT



METAL POLE #3
 STD CASE #S35H2
 -Y15- STA 24+21
 OFFSET 57' RT

Signal Upgrade

Michael Baker INTERNATIONAL
 8000 Regency Pkwy, Ste. 600, Cary, NC 27518
 Phone: (919) 463-5490 - MBAKERINTL.COM
 NC License No. : F-1084

US 421 - NC 55
 at
 I-95 SB Ramp/CD Road

Division 6 Harnett County Dunn

PLAN DATE: March 2021 REVIEWED BY: A Donald

PREPARED BY: K M Cory REVIEWED BY:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Kelly M Cory 4/26/2021

SCALE: 0 20
1" = 20'