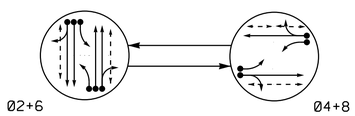
PROJECT REFERENCE NO.	SHEET NO.
U-5606	Sig. 8.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

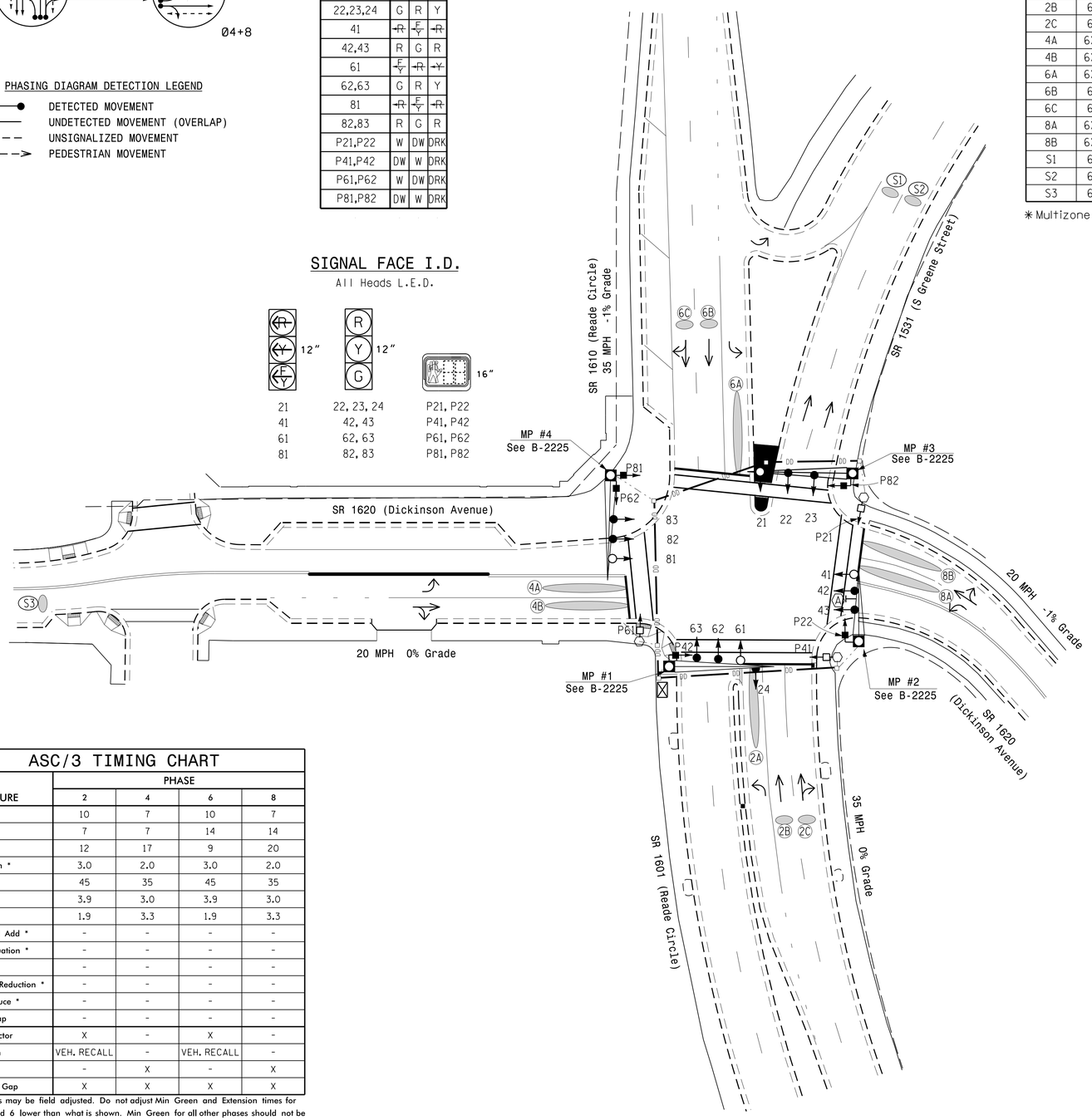
TABLE OF OPERATION

SIGNAL FACE	PHASE 02+6	PHASE 04+8	FLASH
21	~~F Y~~	~~R~~	~~Y~~
22,23,24	G	R	Y
41	~~R~~	~~F Y~~	~~R~~
42,43	R	G	R
61	~~F Y~~	~~R~~	~~Y~~
62,63	G	R	Y
81	~~R~~	~~F Y~~	~~R~~
82,83	R	G	R
P21,P22	W	DW	DRK
P41,P42	DW	W	DRK
P61,P62	W	DW	DRK
P81,P82	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

21	22, 23, 24	P21, P22
41	42, 43	P41, P42
61	62, 63	P61, P62
81	82, 83	P81, P82



ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A	6X40	0	✳	X	2	Yes	-	-	-	S	-	X
2B	6X6	70	✳	X	2	Yes	-	-	-	S	-	X
2C	6X6	70	✳	X	2	Yes	-	-	-	S	-	X
4A	6X40	0	✳	X	4	Yes	-	3	-	S	-	X
4B	6X40	0	✳	X	4	Yes	-	15	-	S	-	X
6A	6X40	0	✳	X	6	Yes	-	-	-	S	-	X
6B	6X6	70	✳	X	6	Yes	-	-	-	S	-	X
6C	6X6	70	✳	X	6	Yes	-	-	-	S	-	X
8A	6X40	0	✳	X	8	Yes	-	3	-	S	-	X
8B	6X40	0	✳	X	8	Yes	-	15	-	S	-	X
S1	6X6	+230	✳	X	-	Yes	-	-	-	N	X	X
S2	6X6	+230	✳	X	-	Yes	-	-	-	N	X	X
S3	6X6	270	✳	X	-	Yes	-	-	-	N	X	X

✳ Multizone Microwave Detection

ASC/3 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green *	10	7	10	7
Walk *	7	7	14	14
Ped Clear	12	17	9	20
Veh. Extension *	3.0	2.0	3.0	2.0
Max 1 *	45	35	45	35
Yellow	3.9	3.0	3.9	3.0
Red Clear	1.9	3.3	1.9	3.3
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	-	X	-	X
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.

2 Phase Fully Actuated Greenville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reposition existing signal heads as shown.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. Closed loop system data: Local telemetry address number 1.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Type II Signal Pedestal	
	Metal Pole with Mastarm	
	Inductive Loop Detector	
	Out of Pavement Detection Zone	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
	Directional Drill	N/A
N/A	Right of Way	
	Directional Arrow	
N/A	Fire Hydrant	
N/A	Curb Ramp	
	Combined Through and Right Arrow Sign (R3-6R)	

Signal Upgrade - Final

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1610 (Reade Circle)/
SR 1531 (Greene Street)
at
SR 1620 (Dickinson Avenue)

Division 2 Pitt County Greenville

PLAN DATE: November 2021	REVIEWED BY: MEL
PREPARED BY: emm	REVIEWED BY:

SCALE 0 30 1"=30'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 042608 ENGINEER MEGHAN E. LEBLANC

DocuSigned by: Meghan E LeBlanc 11/16/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED DATE

SIG. INVENTORY NO. 02-0010

01-DEC-2021 17:18
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