

PHASING DIAGRAM

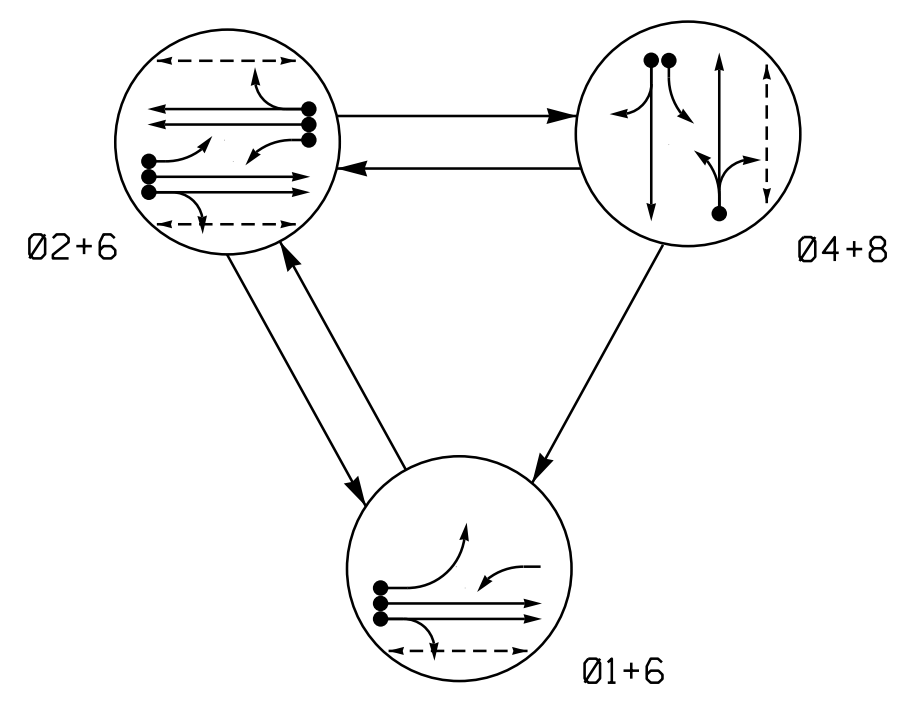
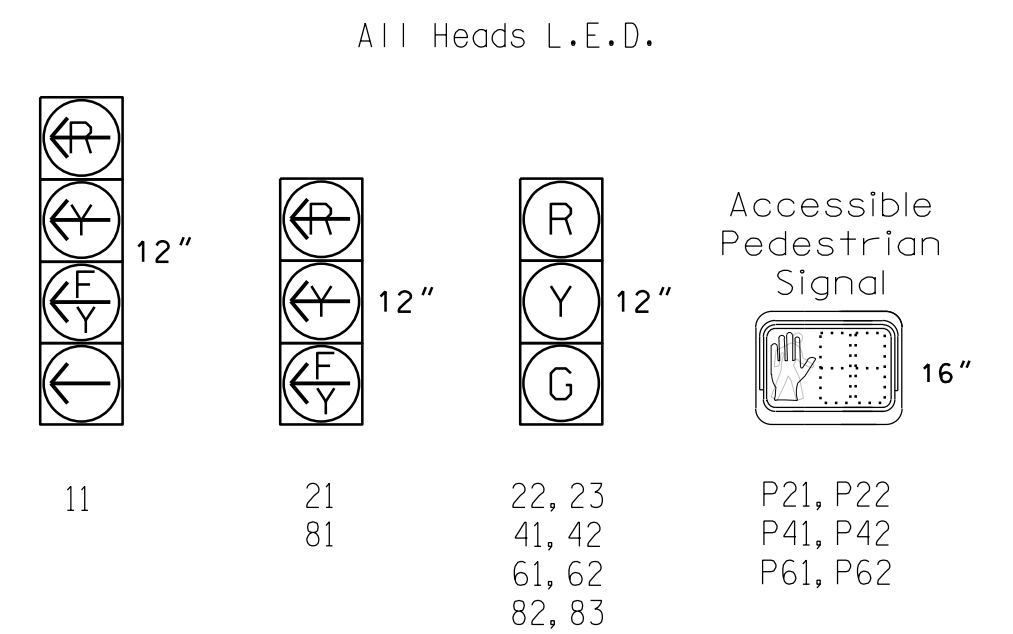


TABLE OF OPERATION

SIGNAL FACE	PHASE				
	01+6	02+6	04+8	F L S H	DRK
11	←	←	←	←	←
21	←	←	←	←	←
22, 23	R	G	R	Y	
41, 42	R	R	G	R	Y
61, 62	G	G	R	Y	
81	←	←	←	←	←
82, 83	R	R	G	R	
P21, P22	DW	W	DW	DRK	
P41, P42	DW	DW	W	DRK	
P61, P62	W	W	DW	DRK	

SIGNAL FACE I.D.



MAXTIME DETECTOR INSTALLATION CHART

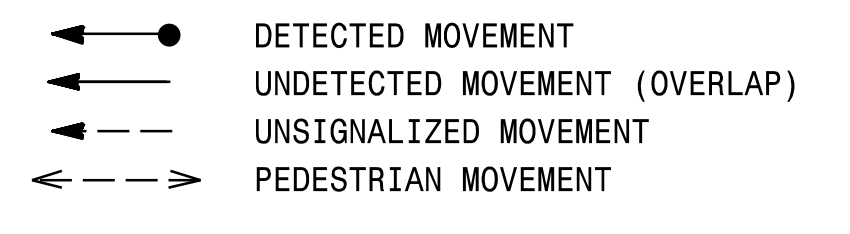
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	6X40	0	*	*	1	15	-	X	-	X	-	*
2A	6X6	70	*	*	2	-	-	X	-	X	-	*
2B	6X6	70	*	*	2	-	-	X	-	X	-	*
2C	6X40	0	*	*	2	-	-	X	-	X	-	*
4A	6X40	0	*	*	4	10	-	X	-	X	-	*
6A	6X6	70	*	*	6	-	-	X	-	X	-	*
6B	6X6	70	*	*	6	-	-	X	-	X	-	*
8A	6X40	0	*	*	8	3	-	X	-	X	-	*
8B	6X40	0	*	*	8	10	-	X	-	X	-	*

3 Phase Fully Actuated D14-12_Waynesville

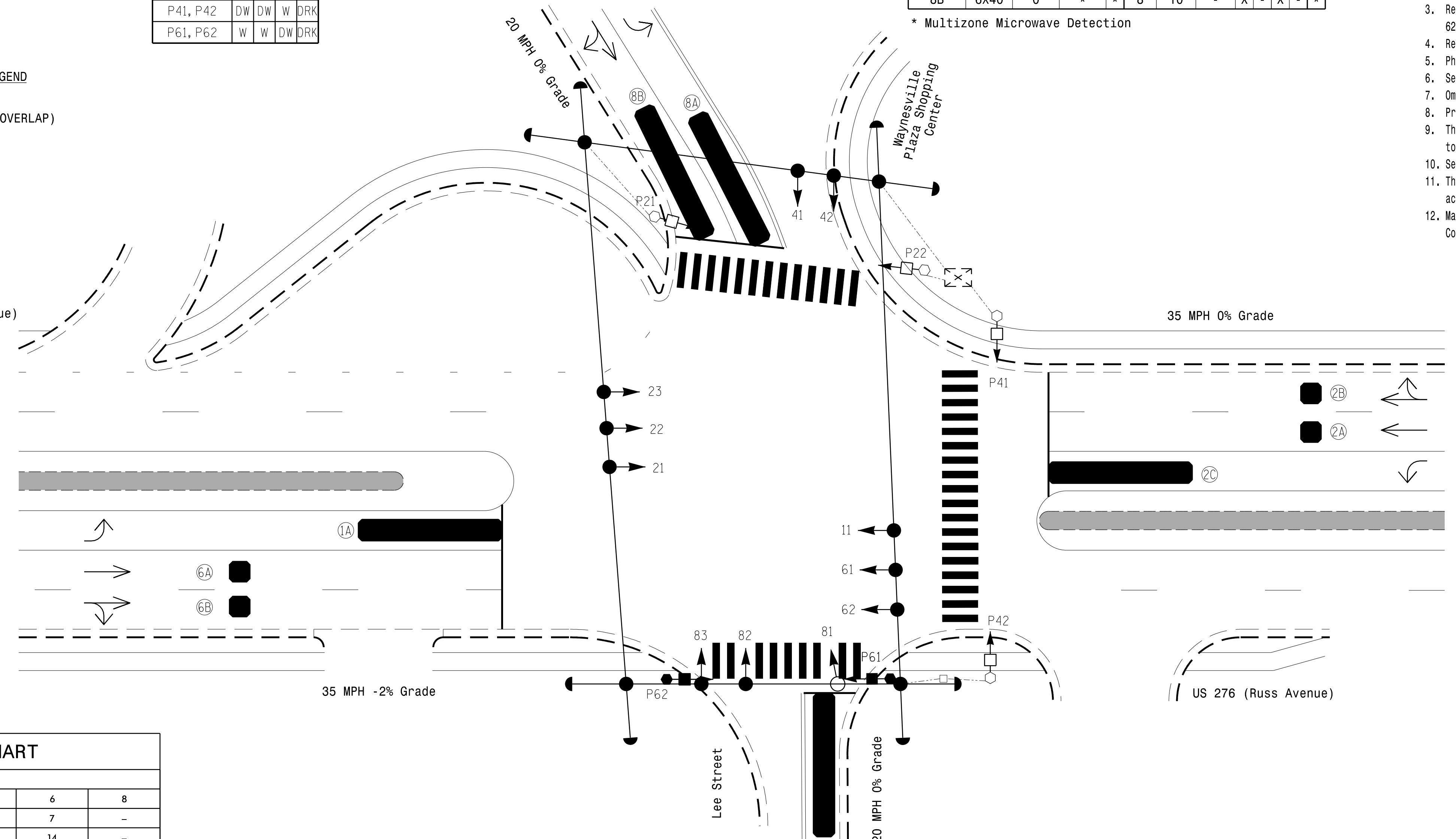
NOTES

- 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.
- Reposition existing signal heads numbered 11, 21, 22, 23, 61, 62 and 81.
- Renumber existing signal heads 81 and 82 to 82 and 83.
- Phase 1 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.
- This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
- See traffic control plans for stop bar and crosswalk locations.
- This intersection uses multizone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



US 276 (Russ Avenue)



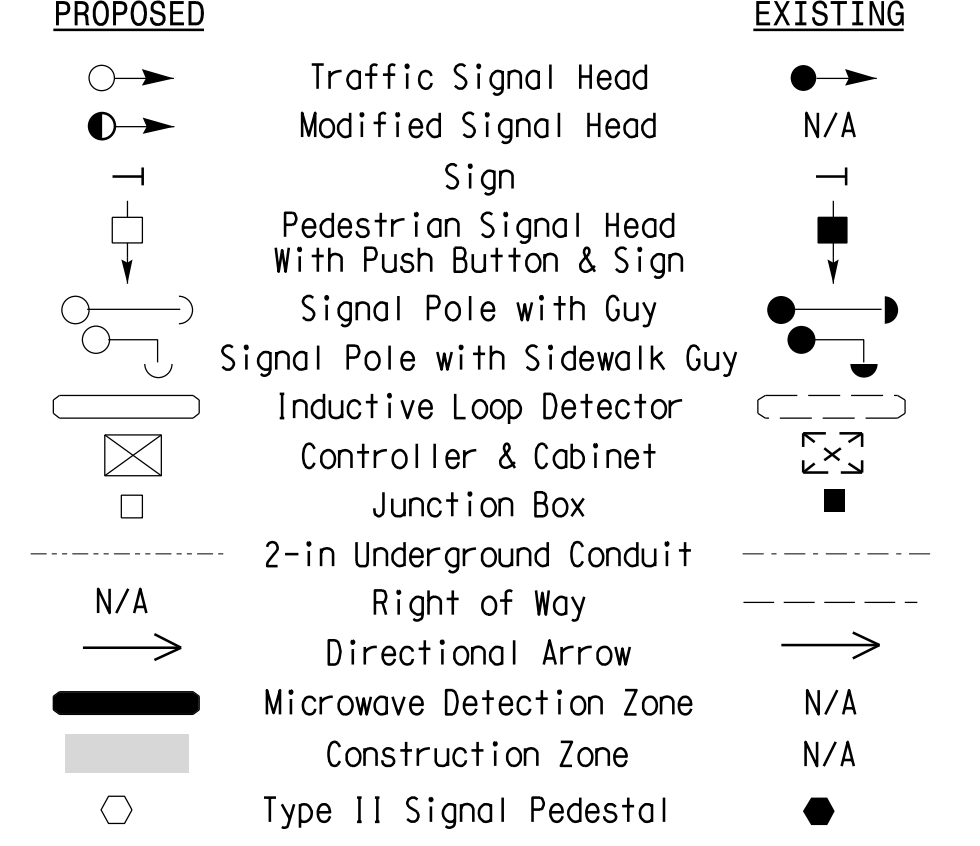
MAXTIME TIMING CHART

FEATURE	PHASE				
	1	2	4	6	8
Walk *	-	7	7	7	-
Ped Clear *	-	14	20	14	-
Min Green	7	10	7	10	7
Passage *	2.0	3.0	3.0	3.0	2.0
Max I *	15	45	20	45	20
Yellow Change	3.0	4.0	3.0	4.0	3.0
Red Clear	3.4	2.5	3.4	2.5	3.5
Added Initial *	-	-	-	-	-
Maximum Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Advance Walk	-	-	-	-	-
Non Lock Detector	X	-	X	-	X
Vehicle Recall	-	MIN RECALL	-	MIN RECALL	-
Dual Entry	-	-	X	-	X

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SIGNAL FACE	VOICE TONES	INTERVAL	SPEECH MESSAGE
P21	- X	Walk	(Percussive Tone)
X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Waynesville Plaza.
P22	- X	Walk	(Percussive Tone)
X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Waynesville Plaza.
P41	- X	Walk	(Percussive Tone)
X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Russ.
P42	- X	Walk	(Percussive Tone)
X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Russ.
P61	- X	Walk	(Percussive Tone)
X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Lee.
P62	- X	Walk	(Percussive Tone)
X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Lee.

LEGEND



Signal Upgrade
Temporary Design 3 - (TMP Phase III)

Infrastructure Consulting Services, Inc.

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US 276 (Russ Avenue)
at
Shopping Center Entrance/
Lee Street

Division 14 Haywood County Waynesville

PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton

PREPARED BY: TS Popelka RKA PROJ. NO.: 16085 (040)

SEAL

William J. Hamilton
Professional Engineer
No. 32396

REVISIONS	INIT.	DATE

4/11/2023
DATE
SIG. INVENTORY NO. 14-058713

4/12/2023 10:58:17.3 as: ts.dsn_2020mtd.dgn User: j.wend

* 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.