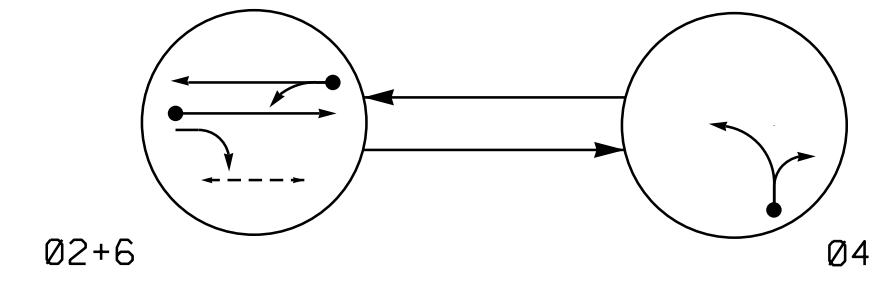


PHASING DIAGRAM



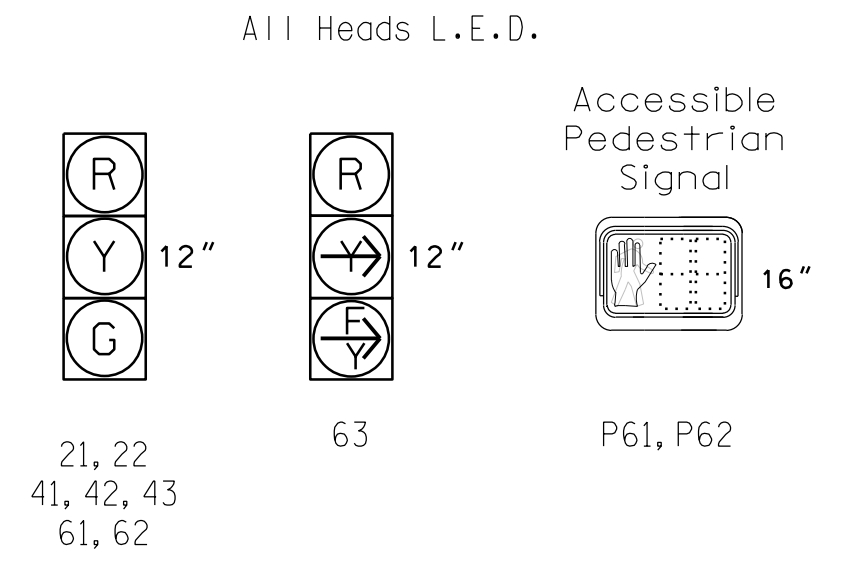
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

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

SIGNAL FACE I.D.



MAXTIME DETECTOR INSTALLATION CHART

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

* Multizone Microwave Detection.

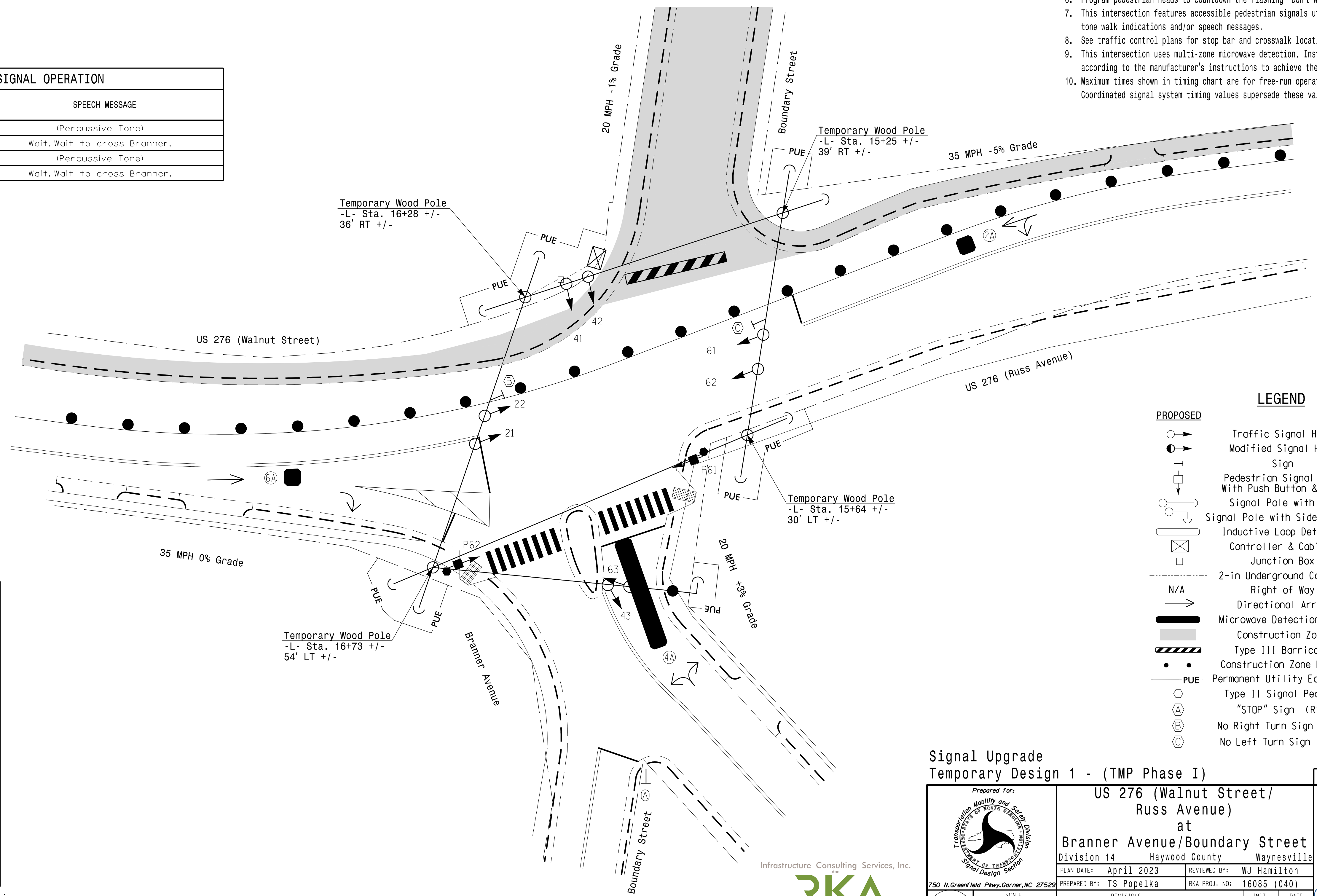
2 Phase Fully Actuated D14-12_Waynesville

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.
- 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.
- 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 multi-zone 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.

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SIGNAL FACE	VOICE	TONES	INTERVAL	SPEECH MESSAGE
P61	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Branner.
P62	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Branner.



MAXTIME TIMING CHART

FEATURE	PHASE		
	2	4	6
Walk *	-	-	7
Ped Clear *	-	-	17
Min Green	10	7	10
Passage *	3.0	2.0	3.0
Max I *	45	30	45
Yellow Change	4.2	3.0	4.2
Red Clear	2.7	1.9	2.7
Added Initial *	-	-	-
Maximum Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Advance Walk	-	-	-
Non Lock Detector	-	X	-
Vehicle Recall	MIN RECALL	-	MIN RECALL
Dual Entry	-	-	-

LEGEND

PROPOSED	EXISTING
○ Traffic Signal Head	● Traffic Signal Head
○ Modified Signal Head	N/A
○ Sign	○ Sign
○ Pedestrian Signal Head With Push Button & Sign	○ Pedestrian Signal Head With Push Button & Sign
○ Signal Pole with Guy	○ Signal Pole with Guy
○ Signal Pole with Sidewalk Guy	○ Signal Pole with Sidewalk Guy
□ Inductive Loop Detector	□ Inductive Loop Detector
□ Controller & Cabinet	□ Controller & Cabinet
□ Junction Box	□ Junction Box
— 2-in Underground Conduit	— 2-in Underground Conduit
N/A Right of Way	— Right of Way
→ Directional Arrow	→ Directional Arrow
■ Microwave Detection Zone	N/A
■ Construction Zone	N/A
■ Type III Barricade	N/A
■ Construction Zone Drums	N/A
— PUE Permanent Utility Easement	N/A
○ Type II Signal Pedestal	● Type II Signal Pedestal
○ "STOP" Sign (R1-1)	○ "STOP" Sign (R1-1)
○ No Right Turn Sign (R3-1)	○ No Right Turn Sign (R3-1)
○ No Left Turn Sign (R3-2)	○ No Left Turn Sign (R3-2)

Signal Upgrade Temporary Design 1 - (TMP Phase I)

Infrastructure Consulting Services, Inc. **RKA** RAMEY KEMP ASSOCIATES

750 N. Greenfield Pkwy, Garner, NC 27529

Prepared For: **US 276 (Walnut Street/ Russ Avenue) at Branner Avenue/ Boundary Street**

Division 14 Haywood County Waynesville

PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton

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

REVISIONS: _____ INIT. DATE

DocuSign
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
WILLIAM J. HAMILTON
32396
04/11/2023
DATE
SIG. INVENTORY NO. 14-037411

* 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.