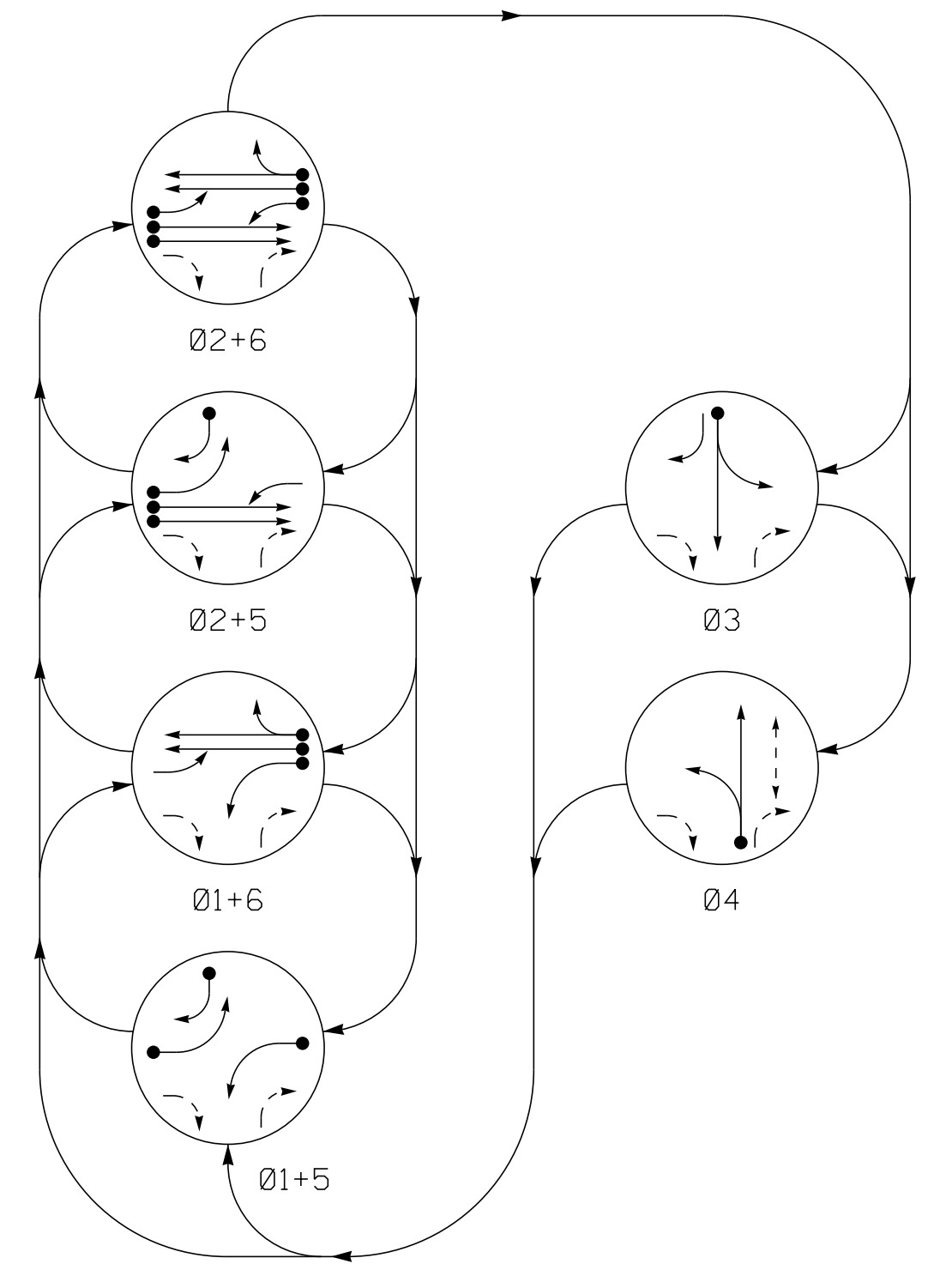


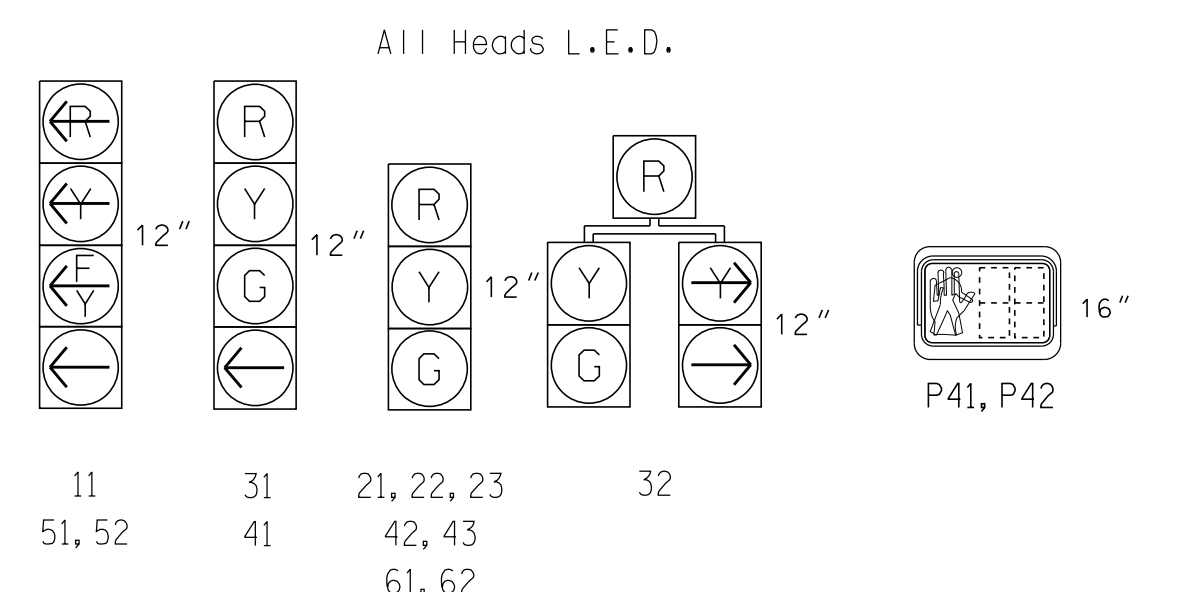
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.



SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3	Ø 4
11	←	←	←	←	←	←
21, 22, 23	R	R	G	G	R	Y
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41	R	R	R	R	G	R
42, 43	R	R	R	R	G	R
51, 52	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y
P41, P42	DW	DW	DW	DW	W	DRK

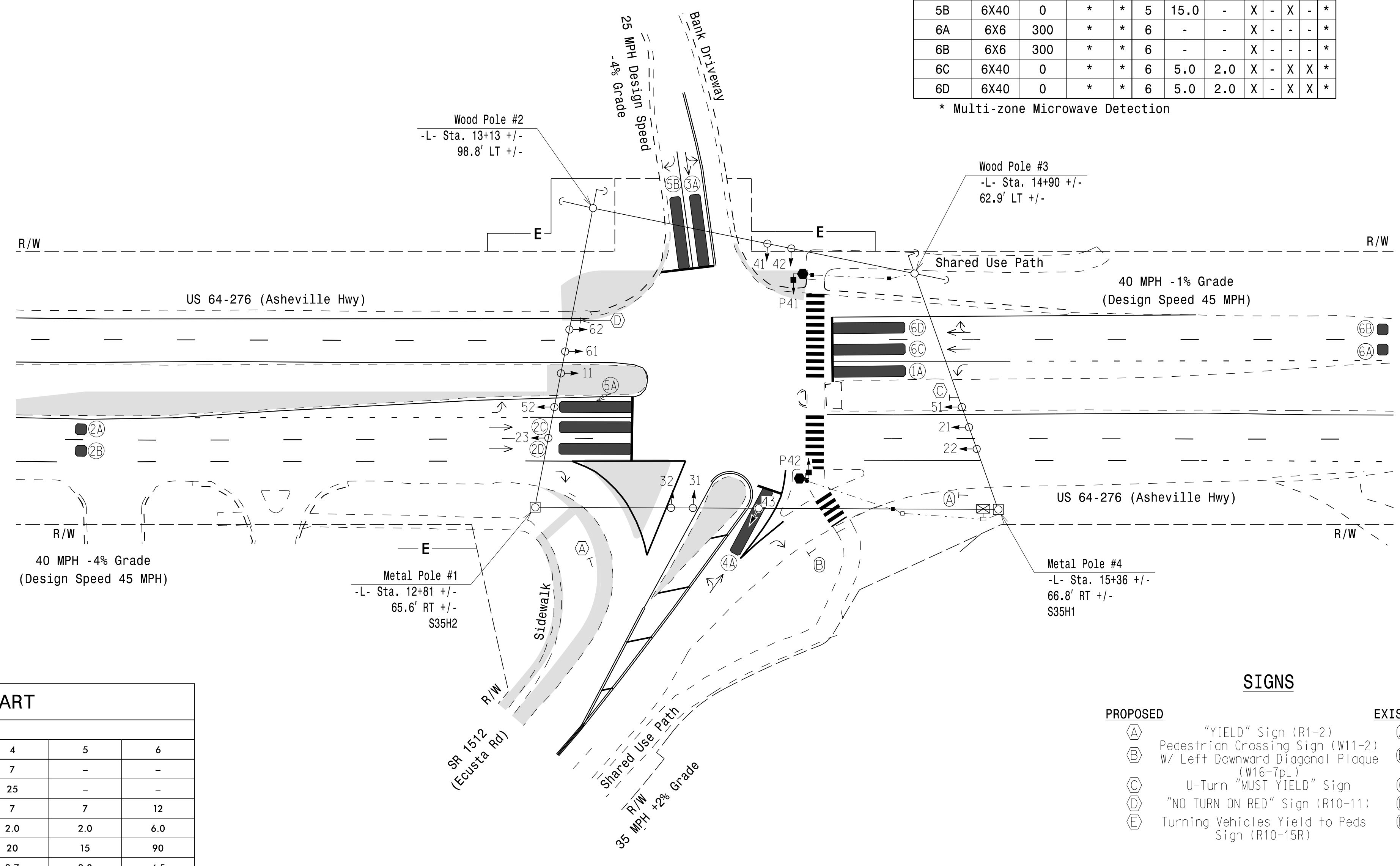
MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	DELAY DURING GREEN	NEW CARD
1A	6X40	0	*	*	1	15.0	-	X	-	X	*
2A	6X6	300	*	*	2	-	-	X	-	-	*
2B	6X6	300	*	*	2	-	-	X	-	-	*
2C	6X40	0	*	*	2	5.0	2.0	X	-	X	*
2D	6X40	0	*	*	2	5.0	2.0	X	-	X	*
3A	6X40	0	*	*	3	3.0	-	X	-	X	*
4A	6X40	0	*	*	4	-	-	X	-	X	*
5A	6X40	0	*	*	5	15.0	-	X	-	X	*
5B	6X40	0	*	*	2	3.0	-	X	-	X	*
6A	6X6	300	*	*	6	-	-	X	-	-	*
6B	6X6	300	*	*	6	-	-	X	-	-	*
6C	6X40	0	*	*	6	5.0	2.0	X	-	X	*
6D	6X40	0	*	*	6	5.0	2.0	X	-	X	*

* Multi-zone Microwave Detection

6 Phase Fully Actuated (Time Based Coordination)

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 1 or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- 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 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.
- Portions of high-visibility crosswalk and Detection Zone 4A not shown for clarity.
- See pavement marking plans for proposed stop bar locations.
- Install NCDOT-supplied cell modem. Request cell modem from Division Traffic Engineer eight weeks prior to deployment.



MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Walk *	-	-	-	7	-	-
Ped Clear *	-	-	-	25	-	-
Min Green	7	12	7	7	7	12
Passage *	2.0	6.0	2.0	2.0	2.0	6.0
Max I *	25	90	15	20	15	90
Yellow Change	3.0	4.5	3.4	3.7	3.0	4.5
Red Clear	3.1	1.9	3.0	2.5	2.8	1.9
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Advance Walk	-	-	-	-	-	-
Non Lock Detector	X	-	X	X	X	-
Vehicle Recall	-	MIN. RECALL	-	-	-	MIN. RECALL
Dual Entry	-	-	-	-	-	-

* 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.

LEGEND

- | | |
|--|---------------------------------|
| PROPOSED | EXISTING |
| ○ Traffic Signal Head | ● N/A |
| ○ Modified Signal Head | ■ N/A |
| □ Pedestrian Signal Head With Push Button & Sign | □ Sign |
| ○ Signal Pole with Guy | ● Signal Pole with Sidewalk Guy |
| ○ Signal Pole with Sidewalk Guy | ○ Inductive Loop Detector |
| ○ Video Detection Zone | ○ Controller & Cabinet |
| □ Junction Box | □ Oversized Junction Box |
| □ Type I Pushbutton Post | ○ Type II Signal Pedestal |
| ○ Strain Pole | ○ Construction Zone |
| ○ Curb Ramp | ○ 2-in Underground Conduit |
| ○ Directional Drill | ○ Directional Arrow |
| ○ Right of Way | ○ Temp. Construction Easement |

SIGNS

- | | |
|---|-----------------|
| PROPOSED | EXISTING |
| Ⓐ "YIELD" Sign (R1-2) | Ⓐ |
| Ⓑ Pedestrian Crossing Sign (W11-2) w/ Left Downward Diagonal Plaque (W16-7pL) | Ⓑ |
| Ⓒ U-Turn "MUST YIELD" Sign | Ⓒ |
| Ⓓ "NO TURN ON RED" Sign (R10-11) | Ⓓ |
| Ⓔ Turning Vehicles Yield to Peds Sign (R10-15R) | Ⓔ |

Temporary Signal 1 - TCP Phase II Step 1

		US 64-276 (Asheville Highway) at SR 1512 (Ecusta Road) / Bank Driveway		SEAL
Division 14 Transylvania County Brevard		PLAN DATE: April 2023 REVIEWED BY: S.G. Haynie		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
PREPARED BY: P. Koloski		REVIEWED BY:		
SCALE 0 40 1"=40'		REVISIONS		DATE 4/28/2023

RS&H
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