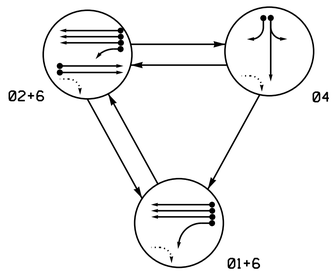
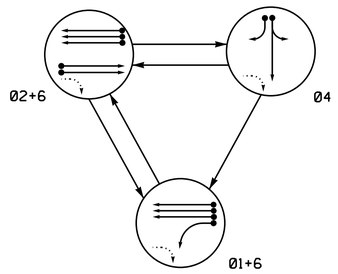
PROJECT REFERENCE NO.	SHEET NO.
U-5813	Sig. 20.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+6	PHASE 02+6	PHASE 04	FLASH
11	←	F Y	~~R~~	~~Y~~
21,22	R	↑	R	Y
41,42	R	R	G	R
61,62,63	↑	↑	R	Y

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+6	PHASE 02+6	PHASE 04	FLASH
11	←	~~R~~	~~R~~	~~Y~~
21,22	R	↑	R	Y
41,42	R	R	G	R
61,62,63	↑	↑	R	Y

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
ZONE	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	-	X	-	X	-	✳
					*6	3	-	X	-	X	X	✳
2A✳	6X6	300	✳	✳	2	-	-	X	X	X	-	✳
2B✳	6X6	300	✳	✳	2	-	-	X	X	X	-	✳
4A✳	6X40	0	✳	✳	4	-	-	X	-	X	-	✳
4B✳	6X40	0	✳	✳	4	15	-	X	-	X	-	✳
6A✳	6X6	300	✳	✳	6	-	-	X	X	X	-	✳
6B✳	6X6	300	✳	✳	6	-	-	X	X	X	-	✳
6C✳	6X6	300	✳	✳	6	-	-	X	X	X	-	✳

✳ Microwave Detection
✳✳ Reduce Delay to 3 seconds for loop during Alternate Phasing operation.
* Disable phase call during Alternate Phasing operation.

3 Phase
Fully Actuated
(Isolated)

NOTES

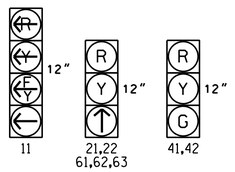
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 may be lagged.
4. Reposition existing signal heads numbered 11, 61, and 62.
5. Renumber existing loop 7A as 1A.
6. Set all detector units to presence mode.
7. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. The Division Traffic Engineer will determine the hours of use for each phasing plan.

PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
DD	Directional Drill	N/A
	Directional Arrow	
	Construction Zone	N/A
	Microwave Detection Zone	
N/A	Curb Ramp	
N/A	Guardrail	
	Construction Zone Drums	
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ
Ⓑ	No U-Turn/No Left Turn Sign (R3-18)	Ⓑ
Ⓒ	No Right Turn Sign (R3-1)	Ⓒ

MAXTIME TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 6
Walk *	-	-	-	-
Ped Clear *	-	-	-	-
Min Green	7	12	7	12
Passage *	2.0	6.0	2.0	6.0
Max 1 *	20	90	30	90
Yellow Change	3.0	4.7	3.7	4.7
Red Clear	1.9	1.1	2.2	1.1
Added Initial *	-	1.5	-	1.0
Maximum Initial *	-	34	-	34
Time Before Reduction *	-	15	-	15
Time To Reduce *	-	30	-	30
Minimum Gap	-	3.0	-	3.0
Advance Walk	-	-	-	-
Non Lock Detector	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.

Signal Upgrade -
Temporary Design 3
(Construction Phases II,III,IIIA)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Prepared for:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

0 40
1"=40'

US 64 Bus. (Dixie Dr)/NC 49 at I-73-US 220 SB/I-74 EB Ramps

Division 8 | Randolph County | Asheboro

PLAN DATE: August 2021 | REVIEWED BY: A.D. Klinksiek
PREPARED BY: N.K. Vlanich | REVIEWED BY: N.R. Simmons

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 031464 ENGINEER NATASHA R. SIMMONS

DocuSigned by: Natasha R Simmons 5/21/2024
SIGNATURE DATE

SIG. INVENTORY NO. 08-0500T3