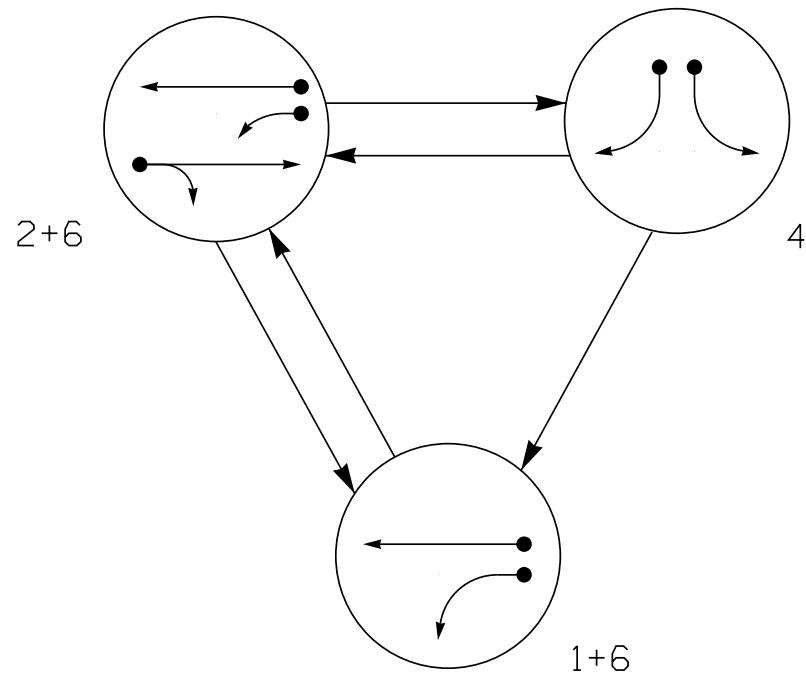


PROJECT REFERENCE NO.	SHEET NO.
I-5898	9.0

PHASING DIAGRAM



SIGNAL FACE	PHASE			
	1 + 6	2 + 6	4	FLASH
11	←	↑	→	→
21	R	↑	R	R
22	R	G	R	R
41	←	←	←	←
42	R	R	G	R
43	R	R	↗	R
61	G	G	R	R
62	↑	↑	R	R

SIGNAL FACE I.D.

All Heads L.E.D.

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 6	15.0 -	-	X	-	X	-	-
2A*	6X6	70	*	-	2 -	-	-	X	-	X	-	-
4A*	6X40	0	*	-	4 -	-	-	X	-	X	-	-
4B*	6X40	0	*	-	4 15.0	-	-	X	-	X	-	-
6A*	6X6	70	*	-	6 -	-	-	X	-	X	-	-

* Video Detection Zone

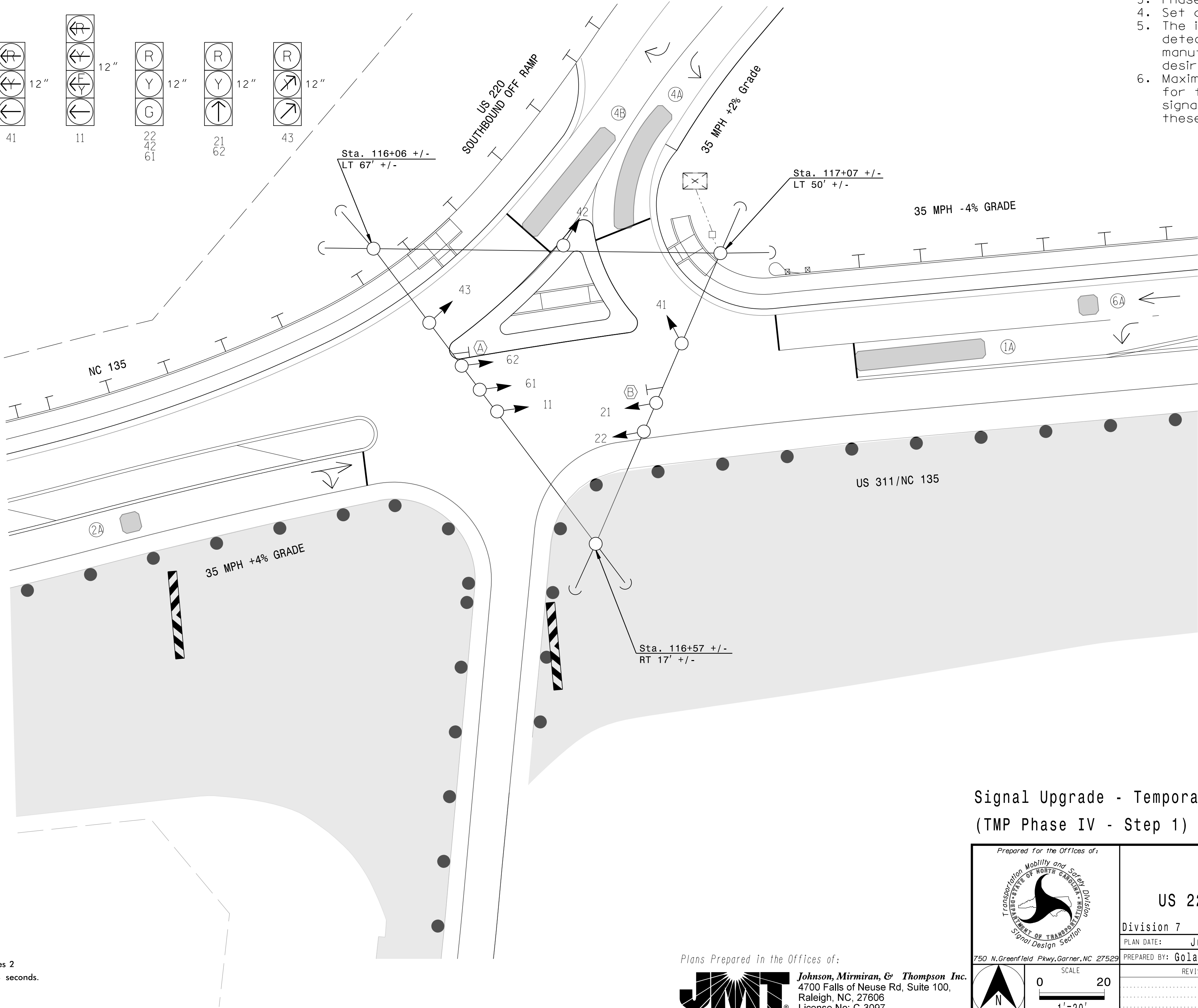
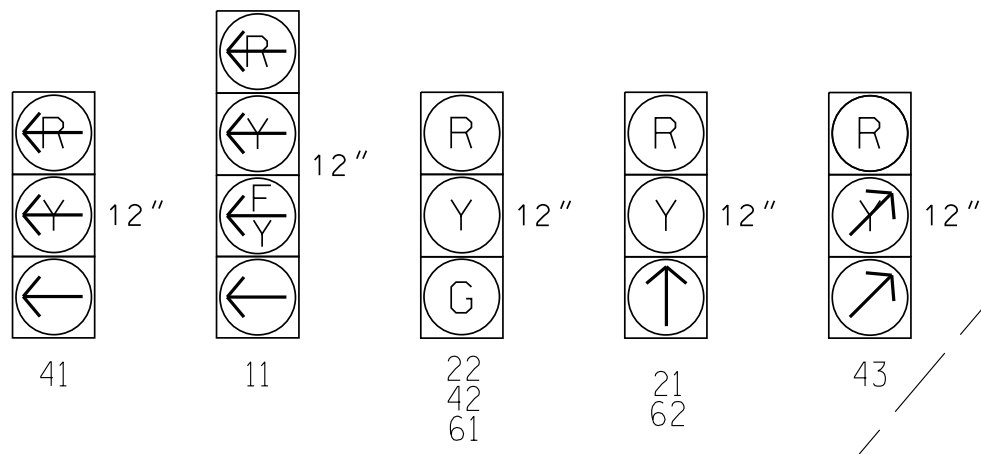
3 Phase
Fully Actuated
(NC 135 CLS)
Signal System # D07-09_Mayodan

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase I may be lagged.
- Set all detector units to presence mode.
- The intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve 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

- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ←--- UNSIGNALIZED MOVEMENT



MAXTIME TIMING CHART				
FEATURE	PHASE			
	1	2	4	6
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Min Green *	7	10	7	10
Passage *	2.0	3.0	2.0	3.0
Max 1 *	20	60	40	60
Yellow Change	3.0	4.1	3.0	4.1
Red Clear	3.3	3.1	2.3	3.1
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
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 Passage 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 | ●→ |
| → | Sign | → |
| ○→ | Signal Pole with Guy | ●→ |
| ⊠ | Controller & Cabinet | ⊠ |
| □ | Junction Box | ■ |
| ---- | 2-in Underground Conduit | ---- |
| N/A | Right of Way | ---- |
| → | Directional Arrow | → |
| N/A | Guardrail | ---- |
| ● | Construction Zone Drums | ● |
| ■ | Construction Zone | N/A |
| ▨ | Construction Barricade | N/A |
| ▨ | Non-Intrusive Detection Zone | ▨ |
| N/A | Curb Ramp | ▨ |
| Ⓐ | No Right Turn Sign (R3-1) | Ⓐ |
| Ⓑ | No Left Turn Sign (R3-2) | Ⓑ |

Signal Upgrade - Temporary Design 3
(TMP Phase IV - Step 1)

Prepared for the Offices of:

Transportation Mobility and Safety Division
DEPARTMENT OF TRANSPORTATION
Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

US 311/NC 135
at
US 220 Southbound Ramps

Division 7 Rockingham County Mayodan

PLAN DATE: June 2025 REVIEWED BY:

PREPARED BY: Golam Moinuddin REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE

0 20

1"=20'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

PROFESSIONAL ENGINEER
SEAL 034454
GOLAM M. MOINUDDIN

Signed by: Golam Moinuddin 6/30/2025

SIGNATURE DATE

SIG. INVENTORY NO. 07-1475 T3