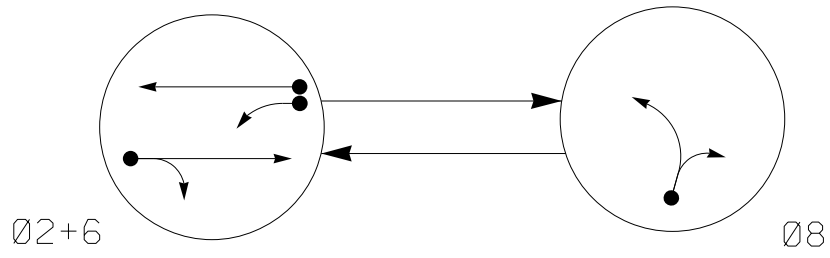


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

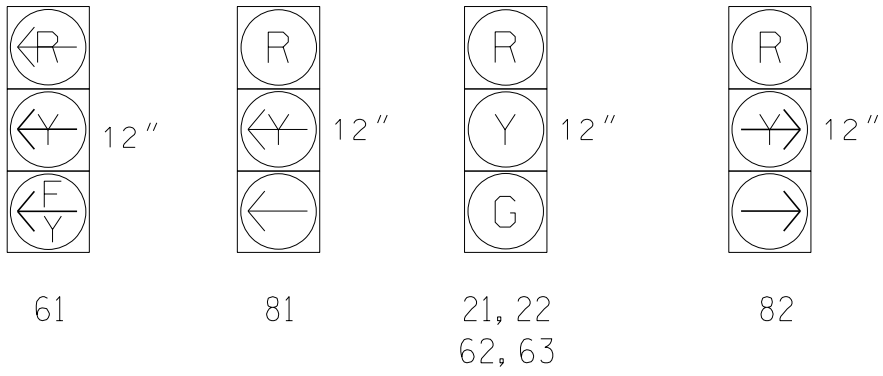
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 2 + 6	Ø 8	FLIGHT
21, 22	G	R	R
61	F	R	R
62, 63	G	R	R
81	R	←	R
82	R	→	

SIGNAL FACE I.D.

All Heads L.E.D.



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
6B	6X40	0	*	*	6	-	-	X	-	X	-
8A	6X40	0	*	*	8	5.0	-	X	-	X	-
8B	6X6	0	*	*	8	15.0	-	X	-	X	-

★ Multi-zone Microwave Detection

Multi-zone Microwave Detection

FUNCTION	2A Sensor 1	6A Sensor 2
Channel	1	1
Phase	2	6
Direction of Travel	NB	SB
Type	Priority	Priority
Level	1	1
Detection Zone (ft)	100-500	100-500
Enable Speed	Y	Y
Speed Range (mph)	35-100	35-100
Enable Estimated Time of Arrival	Y	Y
Estimated Time of Arrival (sec)	2.5-6.5	2.5-6.5

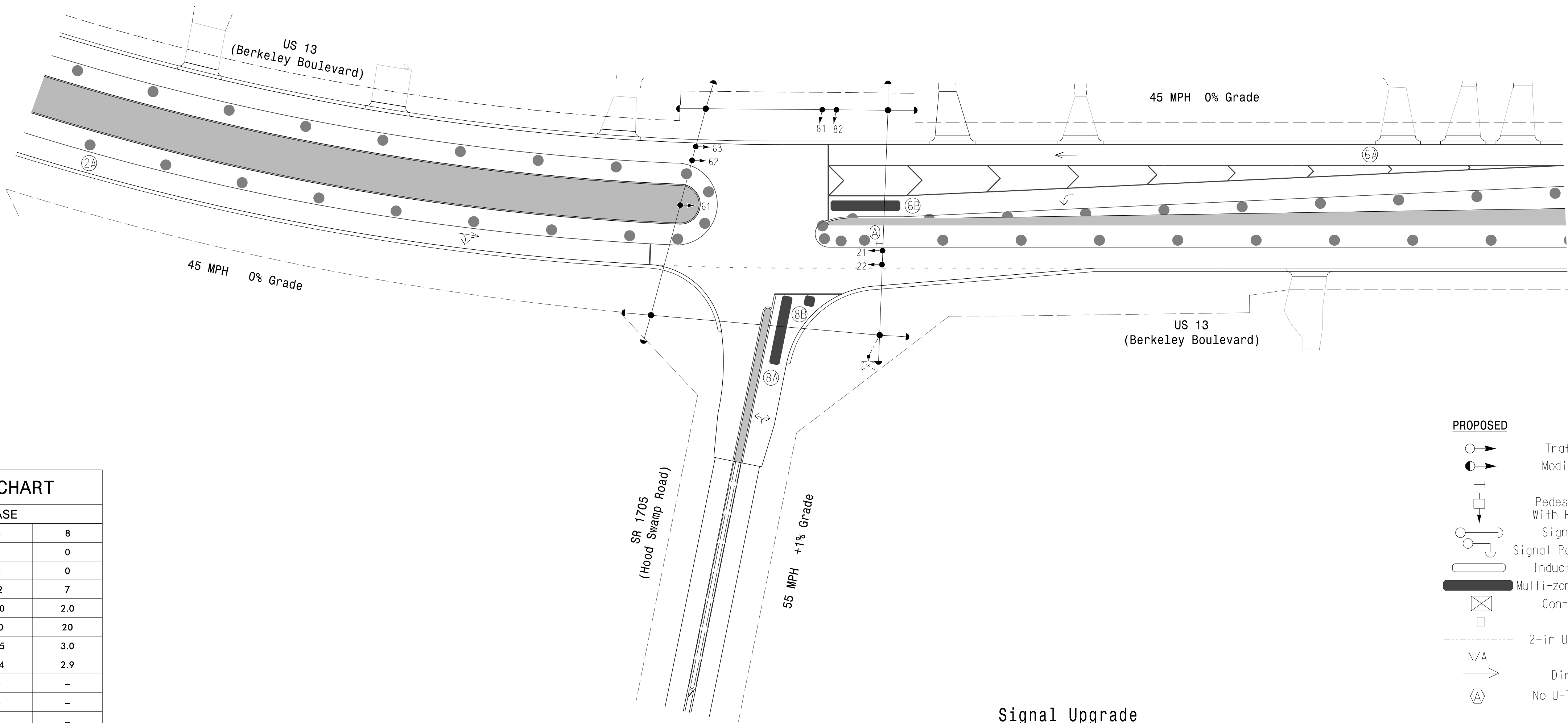
2 Phase
Fully Actuated
(Goldsboro Signal System)

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.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Reposition existing signal heads numbered #11,21,22,61, 62, & Sign A.

MAXTIME TIMING CHART			
FEATURE	PHASE		
	2	6	8
Walk *	0	0	0
Ped Clear	0	0	0
Min Green *	12	12	7
Passage *	2.0	2.0	2.0
Max 1 *	90	90	20
Yellow Change	4.5	4.5	3.0
Red Clear	1.4	1.4	2.9
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	-	-	-

* 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 | Modified Signal Head |
| Pedestrian Signal Head | Signal Pole with Guy |
| Signal Pole with Sidewalk Guy | Signal Pole with Sidewalk Guy |
| Inductive Loop Detector | Multi-zone Microwave Detection |
| Controller & Cabinet | Junction Box |
| 2-in Underground Conduit | Right of Way |
| Directional Arrow | No U-Turn /No Left Turn Sign (R3-18) |

Signal Upgrade
Temporary Design 2 -TMP Phase III

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Stantec Consulting Services Inc.
801 Jones Franklin Road-Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 13 (Berkeley Boulevard)
at
SR 1705 (Hood Swamp Road)

Division 4 Wayne County Goldsboro

PLAN DATE: March 2025 REVIEWED BY: J. Galloway

PREPARED BY: J. Hambricht REVIEWED BY: R M Muncey

REVISIONS	INIT.	DATE

Signed by: Jason Galloway 8/18/2025

ENCLOSURE

SIG. INVENTORY NO. 04-099112