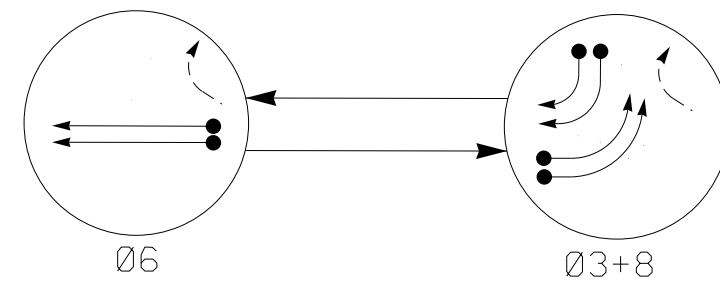


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←- - - UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

All Heads L.E.D.

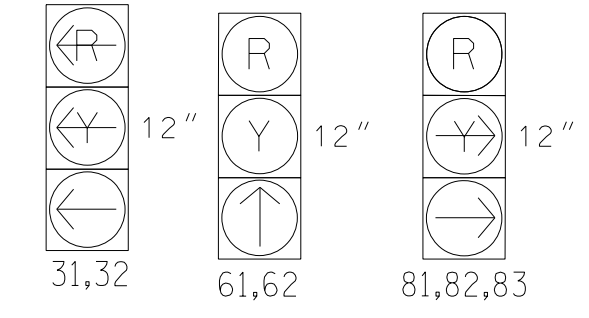


TABLE OF OPERATION

SIGNAL FACE	PHASE		
	06	03+8	FLASH
31,32	←	→	Y
61,62	↑	R	Y
81,82,83	R	→	R

MAXTIME DETECTOR INSTALLATION CHART

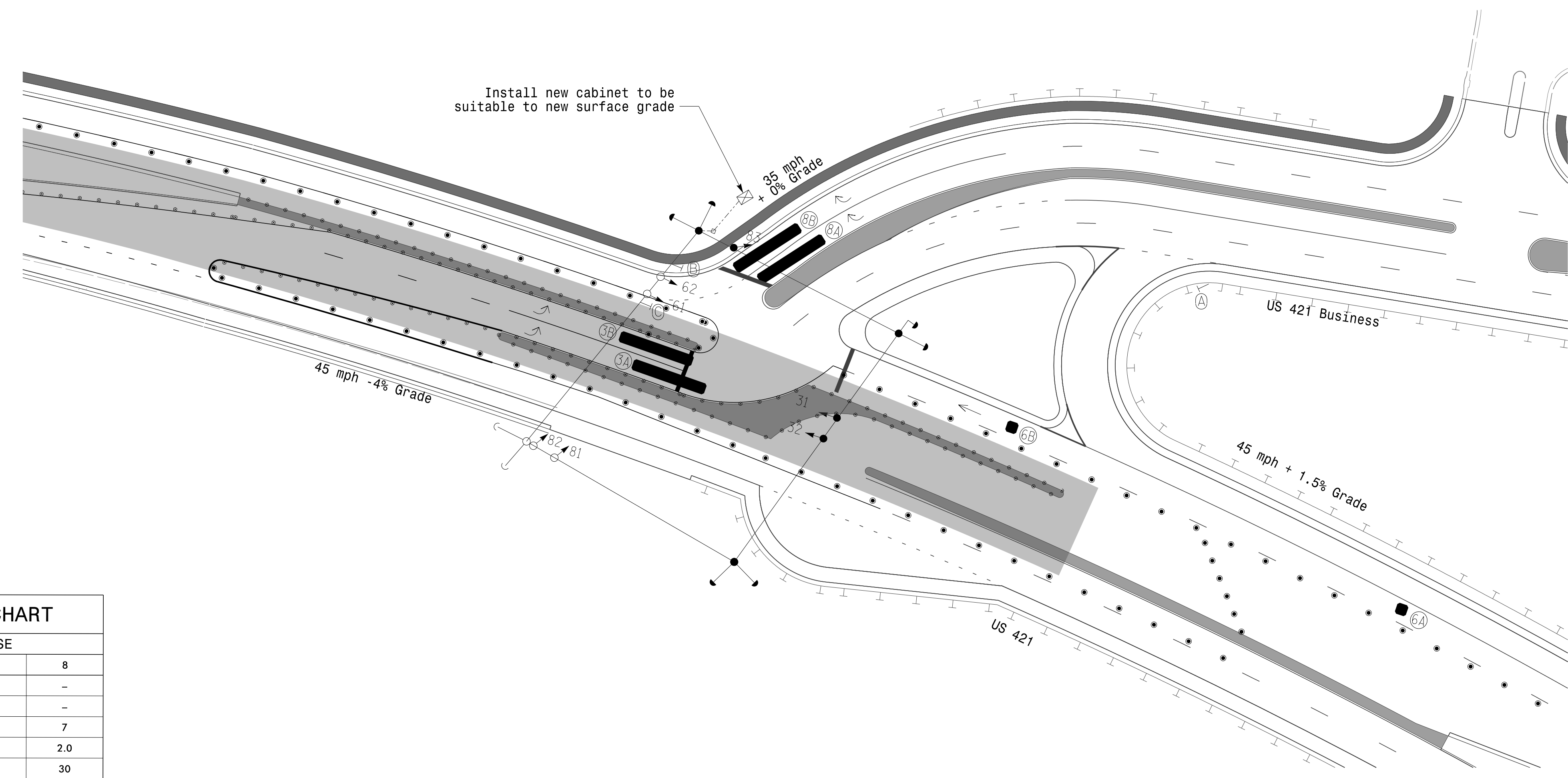
LOOP	DETECTOR				PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND INITIAL	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
3A	*	0	*	*	3	-	-	X	-	X	-	*
3B	*	0	*	*	3	-	-	X	-	X	-	*
6A	*	300	*	*	6	-	1.6	X	-	X	-	*
6B	*	90	*	*	6	-	-	X	-	X	-	*
8A	*	0	*	*	8	15.0	-	X	-	X	-	*
8B	*	0	*	*	8	15.0	-	X	-	X	-	*

*Video Detection Zone

3 Phase Fully Actuated (Isolated)

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 operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Refer to Pavement Marking Plans for proposed stop bar locations.
- Reposition existing signal heads as shown on the plans.



PROPOSED	LEGEND	EXISTING
○	Signal Pole with Guy	●
○	Signal Pole with Sidewalk Guy	●
○	Traffic Signal Head	●
○	Sign	●
□	Pedestrian Signal Head With Push Button & Sign	■
□	Inductive Loop Detector	□
■	Video Detection Zone	N/A
■	Construction Zone	N/A
□	Controller & Cabinet	□
□	Junction Box	■
- - -	2-in Underground Conduit	- - -
- - -	Right of Way	- - -
E	Temporary Construction Easement	N/A
→	Directional Arrow	→
○	Type II Signal Pedestal	●
○	Yield Sign (R1-2)	○
○	No Right Turn (R3-1)	○
○	No Left Turn Sign (R3-2)	○
●	Drum	N/A
●	Skinny Drum	N/A

MAXTIME TIMING CHART

FEATURE	PHASE		
	3	6	8
Walk *	-	-	-
Ped Clear *	-	-	-
Min Green	7	12	7
Passage *	2.0	2.0	2.0
Max I *	30	60	30
Yellow Change	3.0	4.4	3.0
Red Clear	2.4	1.3	1.4
Added Initial *	-	-	-
Maximum Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Advance Walk	-	-	-
Non Lock Detector	X	-	X
Vehicle Recall	-	MIN RECALL	-
Dual Entry	X	-	X

* 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 5 (Phase 12)

Prepared For the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 421 at US 421 Business

Division 11 Wilkes County Wilkesboro

PLAN DATE: May 2023 REVIEWED BY: M.L. Stygles

PREPARED BY: S.R. Chiluka REVIEWED BY: J. Ma

SEAL

DocuSigned by: S.R. Chiluka 26/2023

REVISIONS	INIT.	DATE

SCALE: 1" = 40'



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 11-114615

I:\17\2011\9\38\53 AM R:\Traffic\Signals\Design\90%\Design Plans\Temporary Signal Design\U5312_11-1446TL_Ph 1_Sig _asn_US 421_US 421BUS.dgn
 R:\Traffic\Signals\Design\90%\Design Plans\Temporary Signal Design\U5312_11-1446TL_Ph 1_Sig _asn_US 421_US 421BUS.dgn
 S. Chiluka