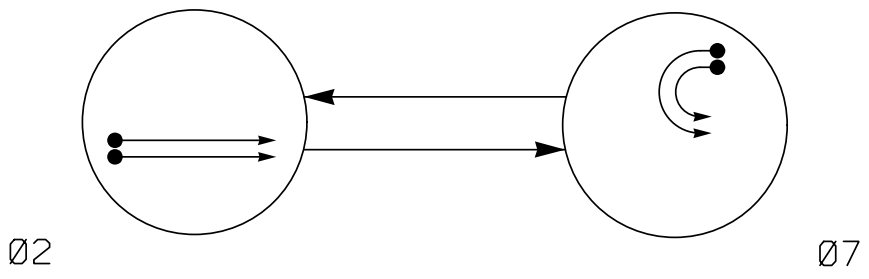


PHASING DIAGRAM



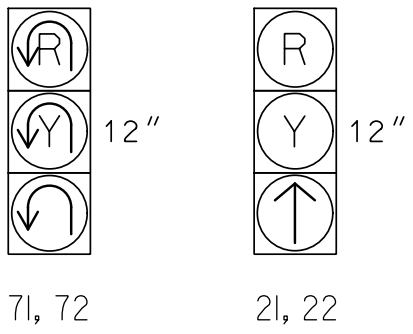
PHASING DIAGRAM DETECTION LEGEND

-
- DETECTED MOVEMENT

SIGNAL FACE	PHASE		
	Ø 2	Ø 7	FLASH
2L, 22	↑	R	R
7L, 72	↓	L	L

SIGNAL FACE I.D.

All Heads L.E.D.



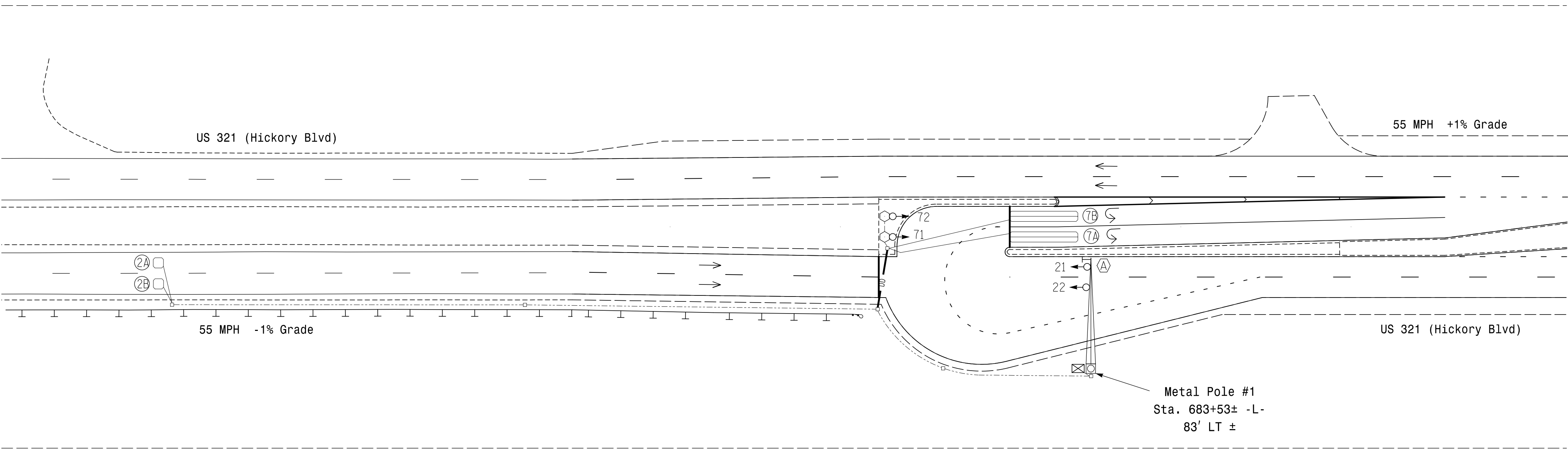
MAXTIME DETECTOR INSTALLATION CHART

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
2A	6X6	420	6	X	2	-	-	X	X	X	-
2B	6X6	420	6	X	2	-	-	X	X	X	-
7A	6X40	0	2-4-2	X	7	-	-	X	-	X	-
7B	6X40	0	2-4-2	X	7	-	-	X	-	X	-

2 Phase
Fully Actuated
US 321 Closed Loop System

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. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Pedestal mounted signal heads shall be mounted at a minimum of 8' above the high point of the roadway surface elevation.
7. Refer to Roadway and/or Pavement Marking plans for stop bar locations.



MAXTIME TIMING CHART

FEATURE	PHASE	
	2	7
Walk *	-	-
Ped Clear	-	-
Min Green *	14	7
Passage *	6.0	2.0
Max 1 *	90	20
Yellow Change	5.3	3.0
Red Clear	1.0	4.8
Added Initial *	1.5	-
Maximum Initial *	46	-
Time Before Reduction *	15	-
Time To Reduce *	30	-
Minimum Gap	3.4	-
Advance Walk	-	-
Non Lock Detector	-	X
Vehicle Recall	MIN RECALL	-
Dual Entry	-	-

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 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	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
	Right of Way	
	Directional Arrow	
	Metal Pole with Mastarm	
	Directional Drill	N/A
	Type II Signal Pedestal	
	No Left Turn Sign (R3-2)	

New Installation

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
(704) 372-1885
NC License Number F-0991

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE
0 40
1"=40'

US 321 (Hickory Boulevard) SB
at
U-Turn Bulb-Out North of
SR 1160 (Mt. Herman Road)
Division 11 Caldwell County Hudson

PLAN DATE: June 2024
REVIEWED BY: D.J. Darity

PREPARED BY: J.T. Grimm
REVIEWED BY: T.M. Woody

REVISIONS
INIT. DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

DocuSigned by:
Trent Moody
6/10/2024

SIG. INVENTORY NO. 11-1456