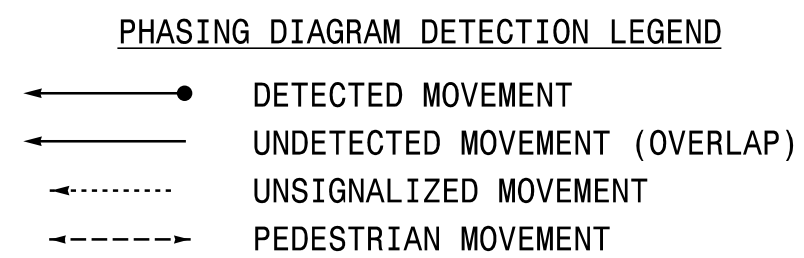
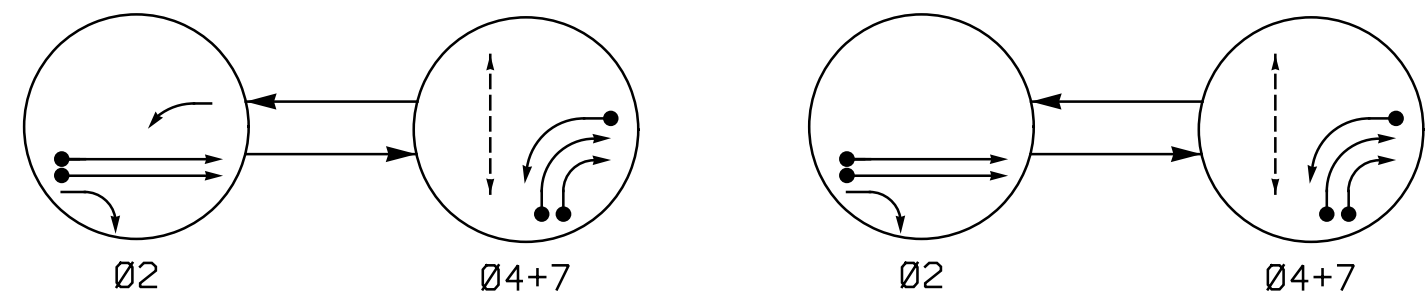


2 Phase Fully Actuated
NC 55 - Fuquay-Varina
Signal System #: D05-48_Fuquay-Varina

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018 and all applicable sections of the latest version of the generic Project Special Provisions.
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. Omit "Walk" and flashing "Don't Walk" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. The Division Traffic Engineer will determine the hours of use for each phasing plan.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

DEFAULT PHASING DIAGRAM **ALTERNATE PHASING DIAGRAM**



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 2	Ø 4 + 7	FLIGHT
21, 22	G	R	Y
23, 24	F	R	Y
41, 42, 43	R	→	R
71	F	←	Y
P41, P42	DW	W	DRK

ALTERNATE PHASING TABLE OF OPERATION

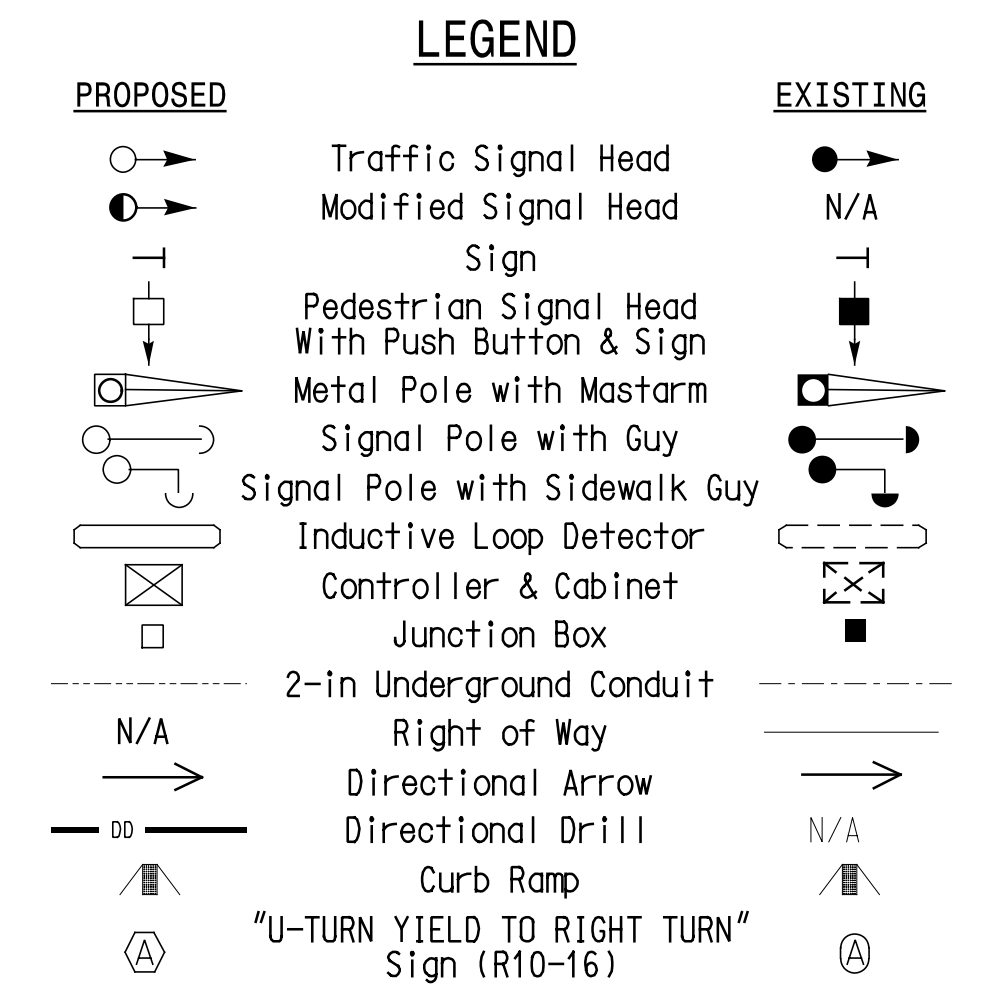
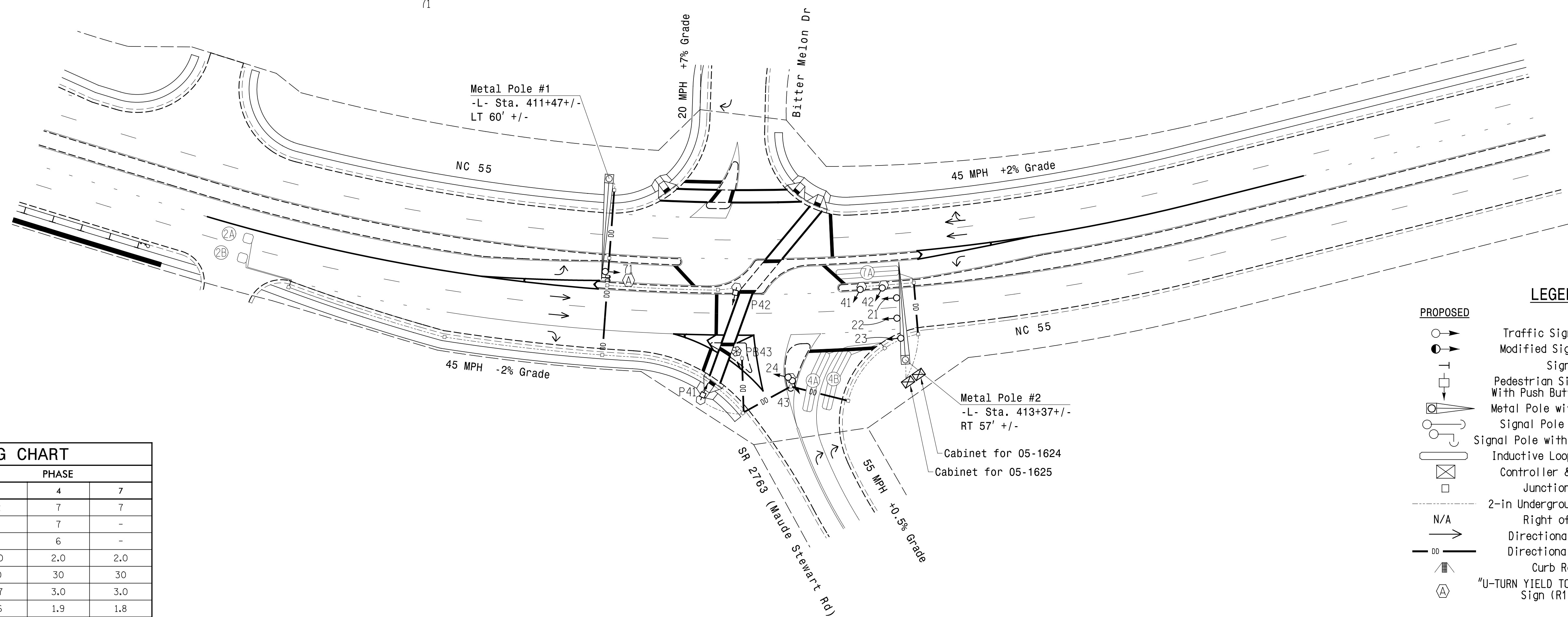
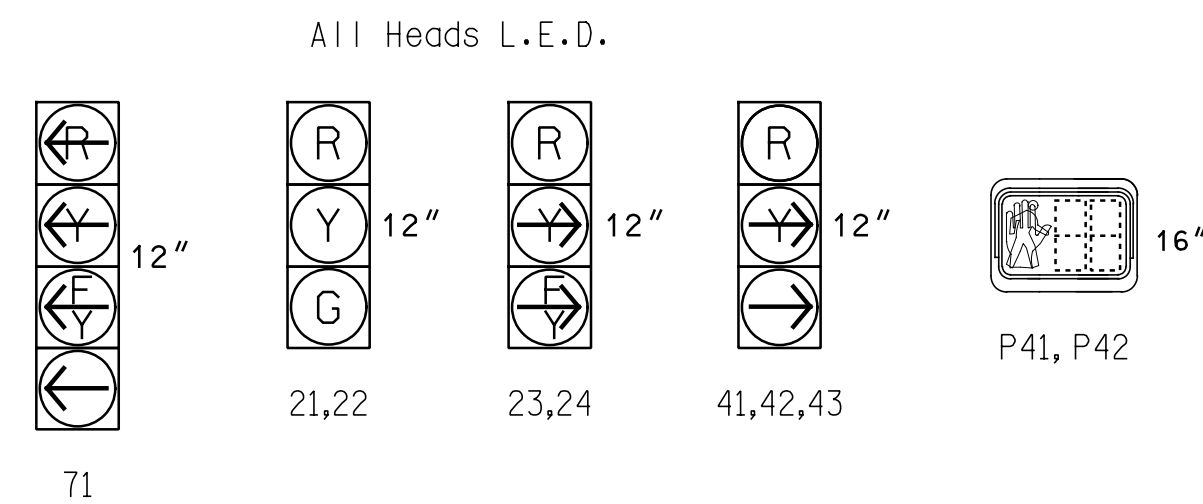
SIGNAL FACE	PHASE		
	Ø 2	Ø 4 + 7	FLIGHT
21, 22	G	R	Y
23, 24	F	R	Y
41, 42, 43	R	→	R
71	R	←	Y
P41, P42	DW	W	DRK

DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A	6X6	300	5	X	2	Yes	-	-	X	N	-	X
2B	6X6	300	5	X	2	Yes	-	-	X	N	-	X
4A	6X40	0	2-4-2	X	4	Yes	-	15	-	N	-	X
4B	6X40	0	2-4-2	X	4	Yes	-	15	-	N	-	X
7A	6X40	0	2-4-2	X	7	Yes	-	15*	-	N	-	X

*Disable Delay During Alternate Phasing Operation.

SIGNAL FACE I.D.



TIMING CHART

FEATURE	PHASE		
	2	4	7
Min Green *	12	7	7
Walk *	-	7	-
Ped Clear	-	6	-
Veh. Extension *	6.0	2.0	2.0
Max 1 *	90	30	30
Yellow	4.7	3.0	3.0
Red Clear	1.6	1.9	1.8
Red Revert	2.0	2.0	2.0
Actuations B4 Add *	-	-	-
Seconds/Actuation *	1.5	-	-
Max Initial *	34	-	-
Time Before Reduction *	30	-	-
Time To Reduce *	50	-	-
Minimum Gap	3.0	-	-
Locking Detector	X	-	-
Recall Position	VEH. RECALL	-	-
Dual Entry	-	X	X
Simultaneous Gap	X	X	X

* 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.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

New Installation

<p>VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606 919.829.0328</p>	<p>Prepared For the Offices of:</p> <p>TRANSPORTATION MOBILITY AND SAFETY ADMINISTRATION NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SIGNAL DESIGN SECTION</p>	<p>NC 55 WB at SR 2763 (Maude Stewart Road)</p> <p>Division 5 Wake County Fuquay-Varina</p> <p>PLAN DATE: July 2022 REVIEWED BY: J. Ma PREPARED BY: J. Townsend REVIEWED BY: M.L. Stygles</p> <p>SCALE: 1" = 40'</p>	<p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046057</p> <p>MATTHEW L. STYGLES</p> <p>7/12/2022</p> <p>SIGNATURE DATE</p> <p>SIG. INVENTORY NO. 05-1625</p>
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