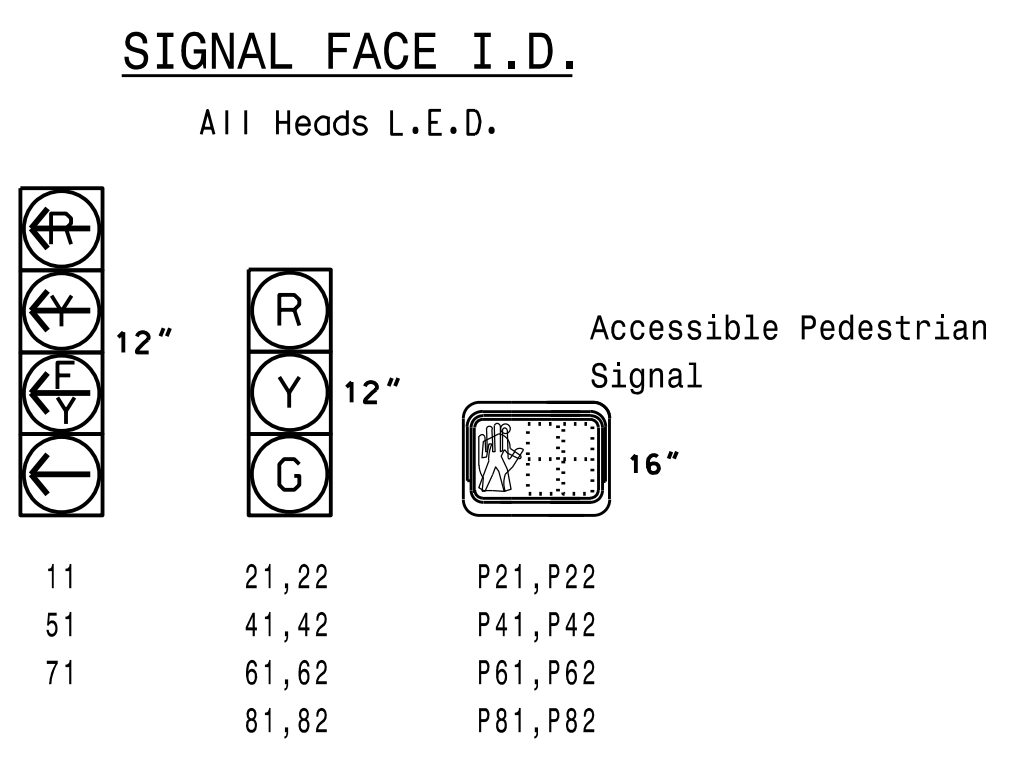


ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SIGNAL FACE	VOICE TONES	INTERVAL	SPEECH MESSAGE
P21,P22	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait, Wait to cross Bond Park
P41,P42	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait, Wait to cross High House
P61,P62	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait, Wait to cross Church Driveway
P81,P82	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait, Wait to cross High House



LOOP & DETECTOR INSTALLATION CHART

ASC/3-2070LXN2 CONTROLLER w/ TS-2 CABINET

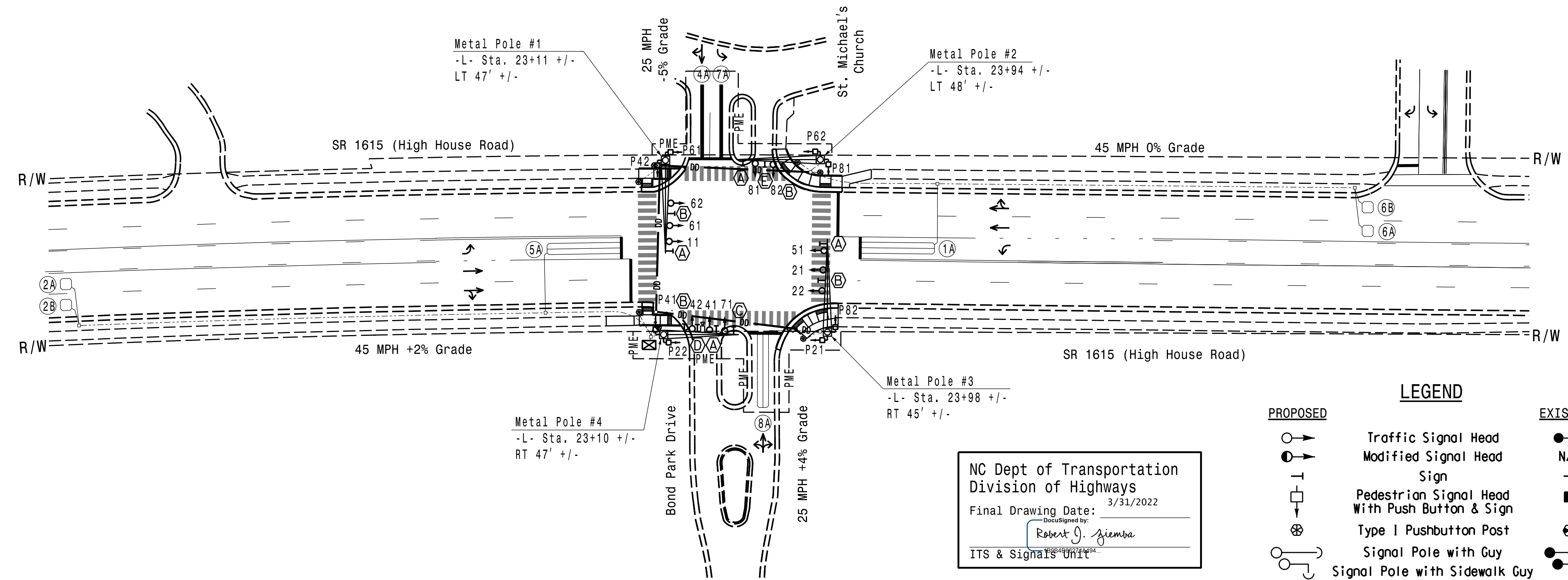
LOOP NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW EXISTING	INDUCTIVE LOOPS		DETECTOR UNITS		USE ADDED INITIAL	DET. TYPE	
					NEW	EXISTING	FEATURE	TIME			
1A	6X40	0	2-4-2	X	-	1	X	DELAY	15.0*	-	N
2A	6X6	300	6X6	X	-	2	X	-	-	X	N
2B	6X6	300	6X6	X	-	2	X	-	-	X	N
4A@	6X40	0	VIDEO	X	-	4	X	DELAY	10.0	-	N
5A	6X40	0	2-4-2	X	-	5	X	DELAY	15.0*	-	N
						2#	X	DELAY	3.0	-	G
6A	6X6	280	6X6	X	-	6	X	-	-	X	N
6B	6X6	280	6X6	X	-	6	X	-	-	X	N
7A@	6X40	0	VIDEO	X	-	7	X	DELAY	15.0	-	N
8A	6X40	0	2-4-2	X	-	8	X	DELAY	10.0	-	N

*Reduce Delay to 3 seconds during Alternate Phasing operation.
 #Disable Phase Call for Loop(s) during Alternate Phasing operation.
 @Video Detection Zone

6 Phase Fully Actuated with Emergency Vehicle Preemption (Cary Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "Standard Specifications for Roads and Structures" dated January 2018, and all applicable sections of the latest version of the generic Project Special Provisions. The PSP can be accessed at the following website: <https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx>
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Omit phase 7 during phase 8 on.
- Phase 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DONT WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
- This location features a GPS preemption system.
- The Town Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supercede these values.
- This intersection includes Cary ITS Connected Vehicle System equipment. Coordination with Cary Traffic Management Center staff is required in advance of construction.
- Cary signal system data:
Fiber channel #: 16.



NC Dept of Transportation
 Division of Highways
 Final Drawing Date: 3/31/2022
 Documented by: Robert J. Ziemba
 ITS & Signals Unit

LEGEND

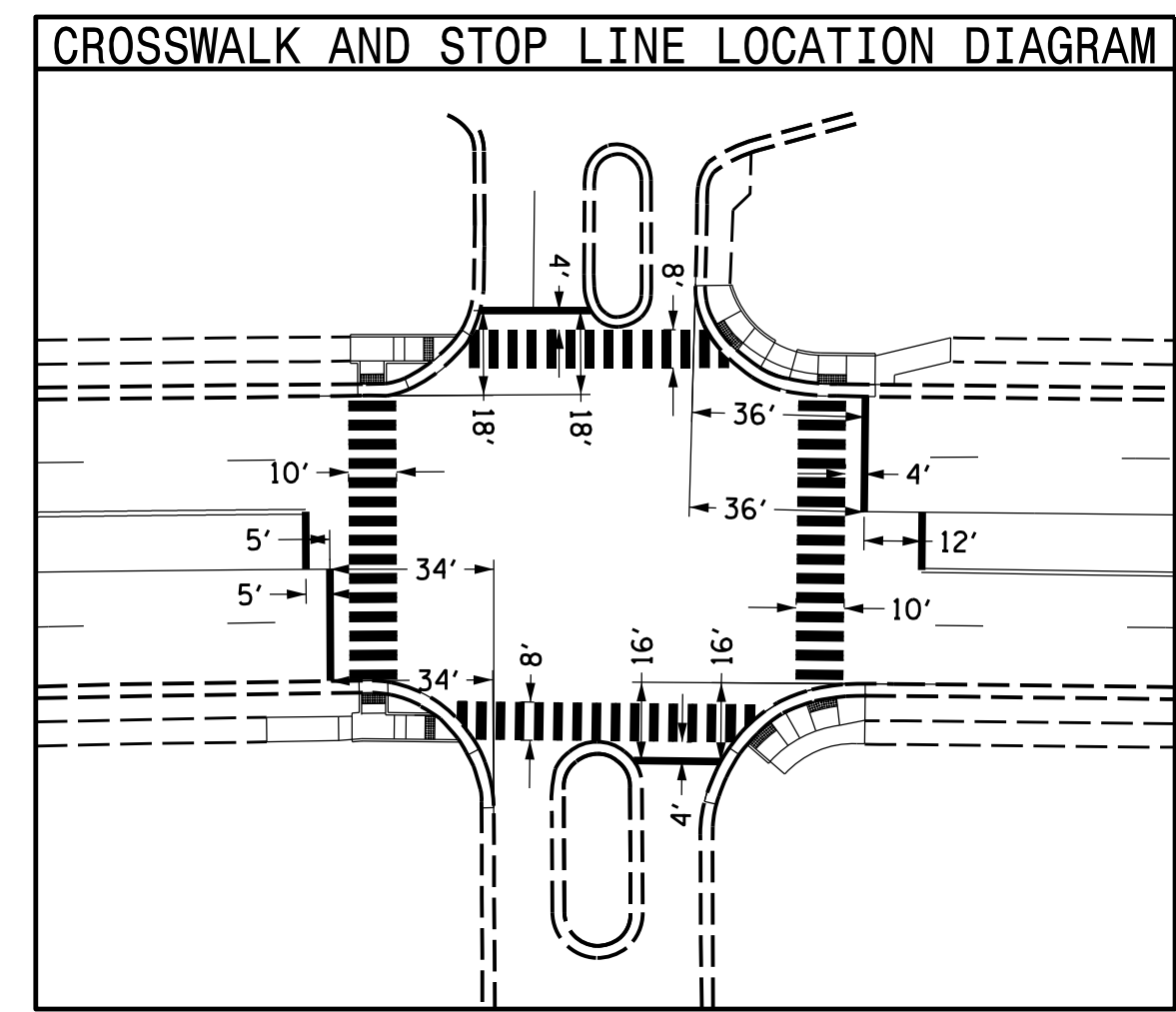
PROPOSED	EXISTING	PROPOSED SIGNS	EXISTING SIGNS
		(A) Left Turning Vehicles Yield to Pedestrians (R10-15L) Sign	(A)
		(B) Street Name Sign (D3-1)	(B)
		(C) Left Arrow "ONLY" Sign (R3-5L)	(C)
		(D) Combined Through and Right Arrow Sign (R3-6R)	(D)
		(E) Dual Turn and Through Arrows Sign	(E)

TIMING CHART

ASC/3-2070LXN2 CONTROLLER

PHASE	01	02	04	05	06	07	08
MINIMUM GREEN *	7 SEC.	12 SEC.	7 SEC.	7 SEC.	12 SEC.	7 SEC.	7 SEC.
DELAYED GREEN **	- SEC.	5 SEC.	5 SEC.	- SEC.	5 SEC.	- SEC.	5 SEC.
VEHICLE EXT. *	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	3.0 SEC.	4.5 SEC.	3.5 SEC.	3.0 SEC.	4.5 SEC.	3.1 SEC.	3.5 SEC.
RED CLEARANCE	3.1 SEC.	1.6 SEC.	2.9 SEC.	2.9 SEC.	1.6 SEC.	2.8 SEC.	2.9 SEC.
MAX. I *	15 SEC.	65 SEC.	25 SEC.	15 SEC.	65 SEC.	15 SEC.	25 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE	NONE	MIN. RECALL	NONE	NONE
LOCK DET.	OFF	ON	OFF	OFF	ON	OFF	OFF
WALK *	- SEC.	7 SEC.	7 SEC.	- SEC.	7 SEC.	- SEC.	7 SEC.
PED. CLEAR	- SEC.	15 SEC.	17 SEC.	- SEC.	13 SEC.	- SEC.	17 SEC.
ACTUATION B4 ADD *	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.
SEC. PER ACTUATION *	- SEC.	1.5 SEC.	- SEC.	- SEC.	1.5 SEC.	- SEC.	- SEC.
MAX. INITIAL *	- SEC.	34 SEC.	- SEC.	- SEC.	34 SEC.	- SEC.	- SEC.
TIME B4 REDUCTION *	- SEC.	15 SEC.	- SEC.	- SEC.	15 SEC.	- SEC.	- SEC.
TIME TO REDUCE *	- SEC.	45 SEC.	- SEC.	- SEC.	45 SEC.	- SEC.	- SEC.
MINIMUM GAP	- SEC.	3.0 SEC.	- SEC.	- SEC.	2.7 SEC.	- SEC.	- SEC.
DUAL ENTRY	OFF	OFF	ON	OFF	OFF	OFF	ON
SIMULTANEOUS GAP	ON	ON	ON	ON	ON	ON	ON

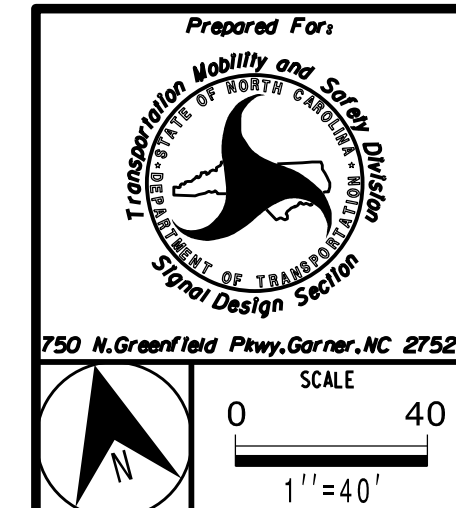
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



New Installation - Sheet 1 of 2



NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (984) 500-5426



SR 1615 (High House Road) at Bond Park Drive / St. Michael's Church

Division 5 Wake County Cary

PLAN DATE: December 2021	REVIEWED BY: TA Honeycutt
PREPARED BY: CR Wong	REVIEWED BY:
REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL	DATE
SIGNATURE	DATE