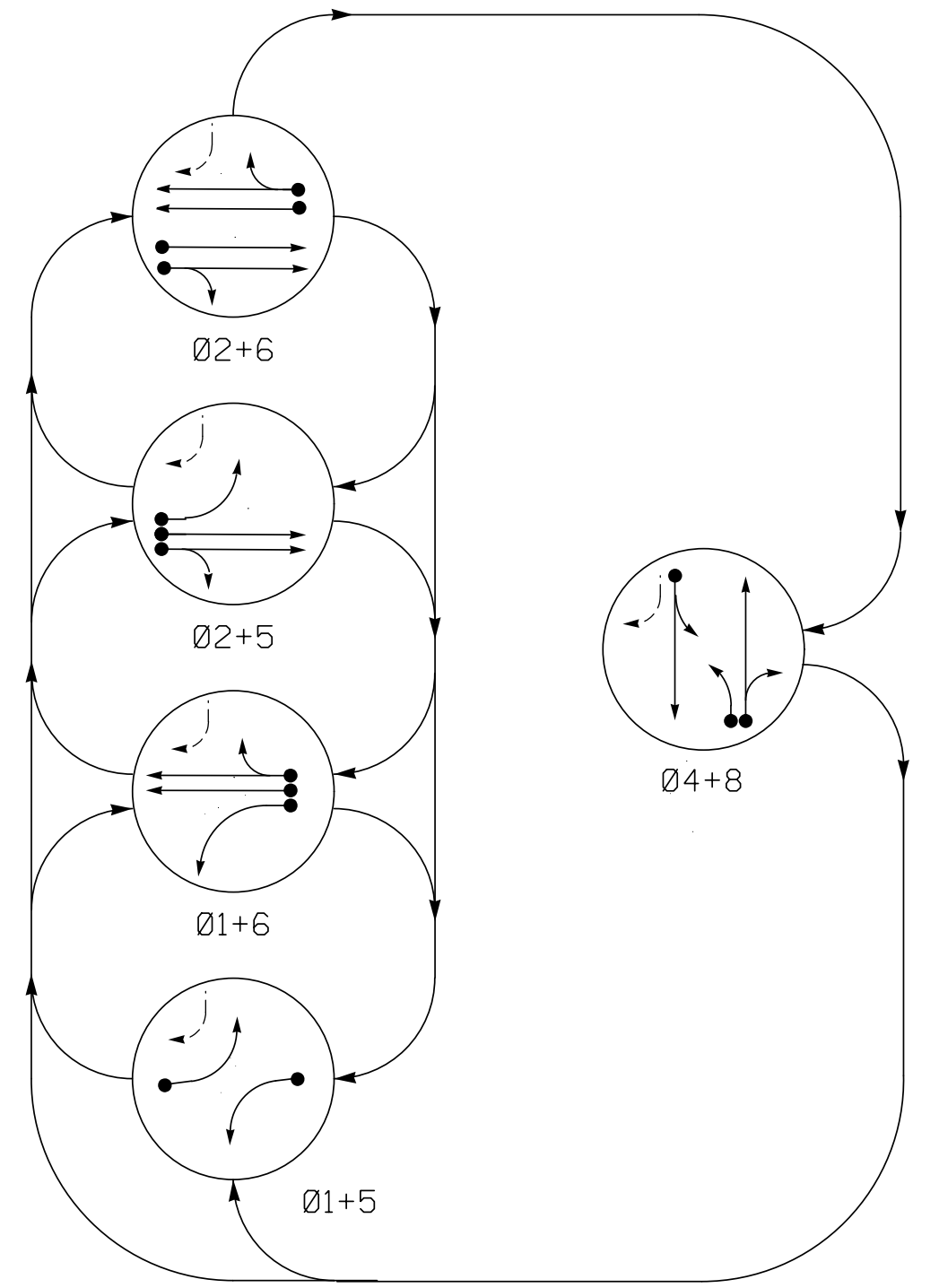


PHASING DIAGRAM

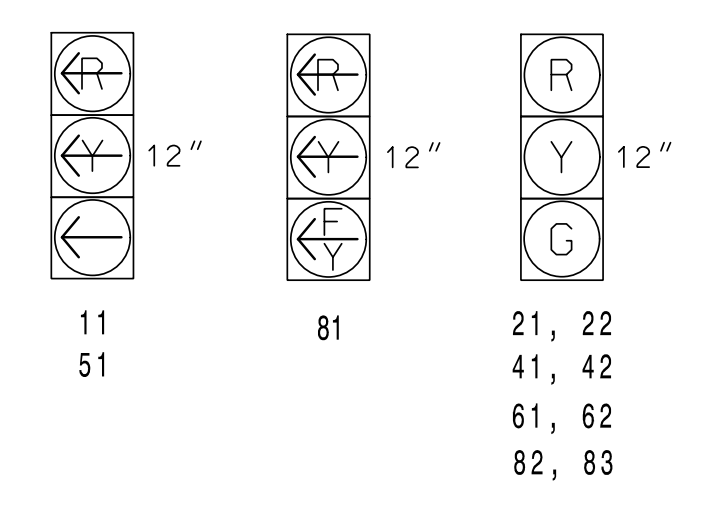


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE					L	P
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8		
11	←	←	←	←	←		
21, 22	R	R	G	G	R	Y	
41, 42	R	R	R	R	G	R	
51	←	←	←	←	←		
61, 62	R	G	R	G	R	Y	
81	←	←	←	←	←		
82, 83	R	R	R	R	G	R	

SIGNAL FACE I.D.
All Heads L.E.D.

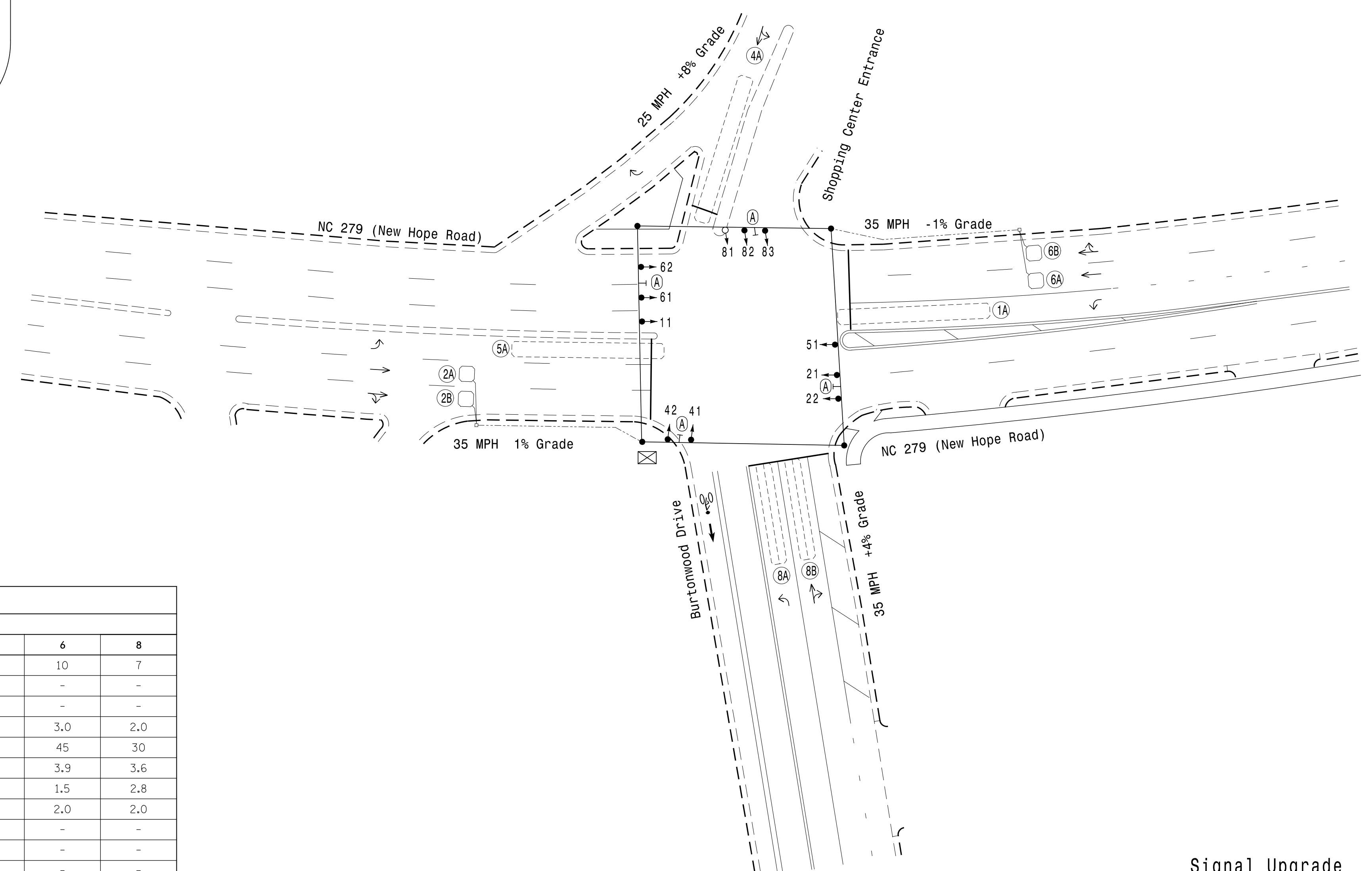


DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP SYSTEM	NEW CARD
1A	6X60	+5	EXIST	-	1	Yes	-	-	-	N	-	X
2A	6X6	70	6	X	2	Yes	-	-	-	N	-	X
2B	6X6	70	6	X	2	Yes	-	-	-	N	-	X
4A	6X60	+5	EXIST	-	4	Yes	-	-	-	N	-	X
5A	6X60	+5	EXIST	-	5	Yes	-	-	-	N	-	X
6A	6X6	70	6	X	6	Yes	-	-	-	N	-	X
6B	6X6	70	6	X	6	Yes	-	-	-	N	-	X
8A	6X40	0	2-4-2	-	8	Yes	-	-	-	N	-	X
8B	6X40	0	2-4-2	-	8	Yes	-	5	-	N	-	X

5 Phase Fully Actuated Gastonia Signal System

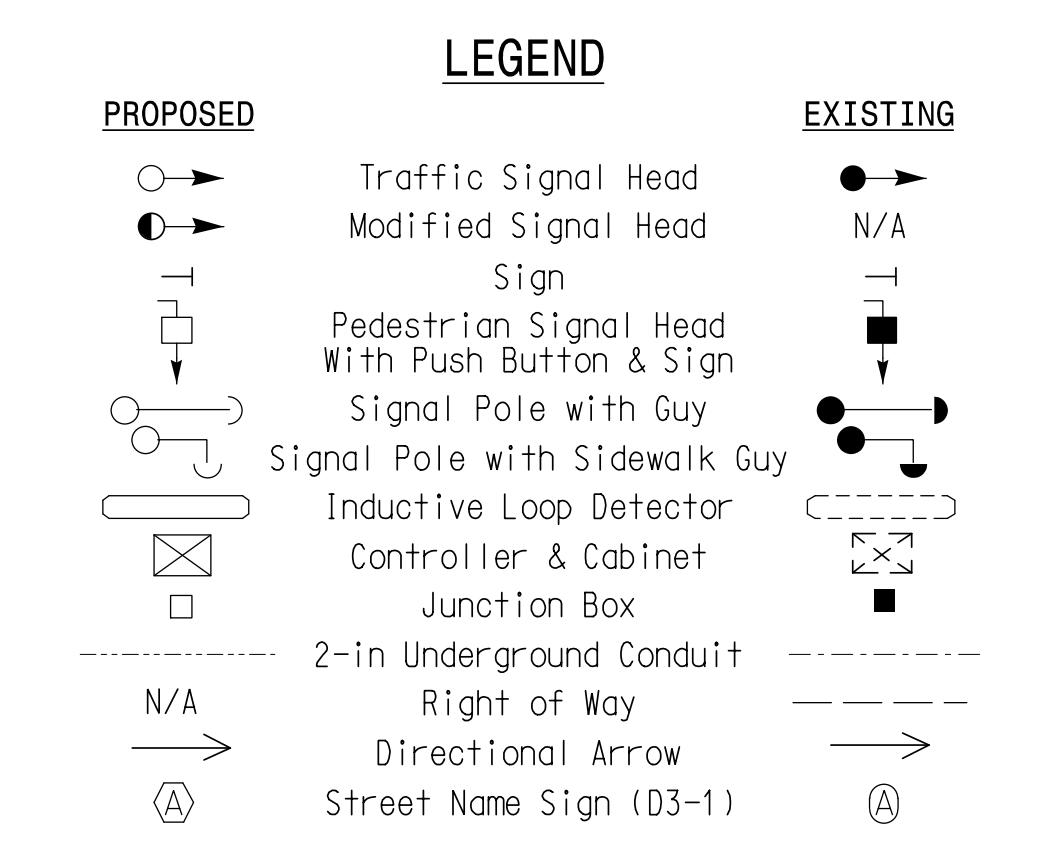
NOTES

- 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 flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Reposition existing signal heads numbered 82 and 83.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signal Design Manual and submit a Plan of Record to the Signal Design Section.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Remove existing "Left Turn" - "Yield" Combination Sign (R1-2)
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values.
- Install new cabinet on the existing cabinet foundation.
- All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- Existing signal heads 81 and 82 have been relabeled to 82 and 83, respectively.
- City system data:
Controller Asset #0152.



FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	10	7	7	10	7
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	1.0	3.0	2.0	1.0	3.0	2.0
Max 1 *	20	45	30	20	45	30
Yellow	3.0	3.8	3.6	3.0	3.9	3.6
Red Clear	2.3	1.4	2.8	1.8	1.5	2.8
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	-	-	-	-	-
Max Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Locking Detector	-	X	-	-	X	-
Recall Position	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X
Simultaneous Gap	X	X	X	X	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

Prepared For:
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421 Fayetteville Street, Suite 600
Raleigh, NC 27601
(919) 677-2000

NC 279 (New Hope Road)
at
Burtonwood Drive /
Shopping Center Entrance

Division 12 Gaston County Gastonia

PLAN DATE: May 2021 REVIEWED BY: SL Phillips
PREPARED BY: DM Curri REVIEWED BY: KP Baumann

REVISIONS: _____ INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Discussed by: _____ DATE: 3/11/2022
Signature: _____ DATE: _____
SIG. INVENTORY NO. 12-0152

3/9/2022 11:16:44 AM DanHille.Curri ***K:\mley-horn.com\SE_RAL\MRAL_T\IDK_L\T\5011036569_Gastonia_Signal_System9_Signal\KWS4 - Signal Design\G120152-2021.dgn