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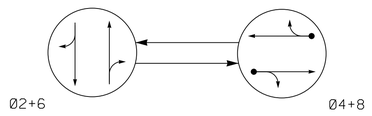
PROJECT REFERENCE NO.	SHEET NO.
R-5020B	Sig. 22.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+6	PHASE Ø4+8	PHASE FLASH
21, 22	G	R	Y
41, 42	R	G	R
61, 62	G	R	Y
81, 82	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

21, 22
41, 42
61, 62
81, 82

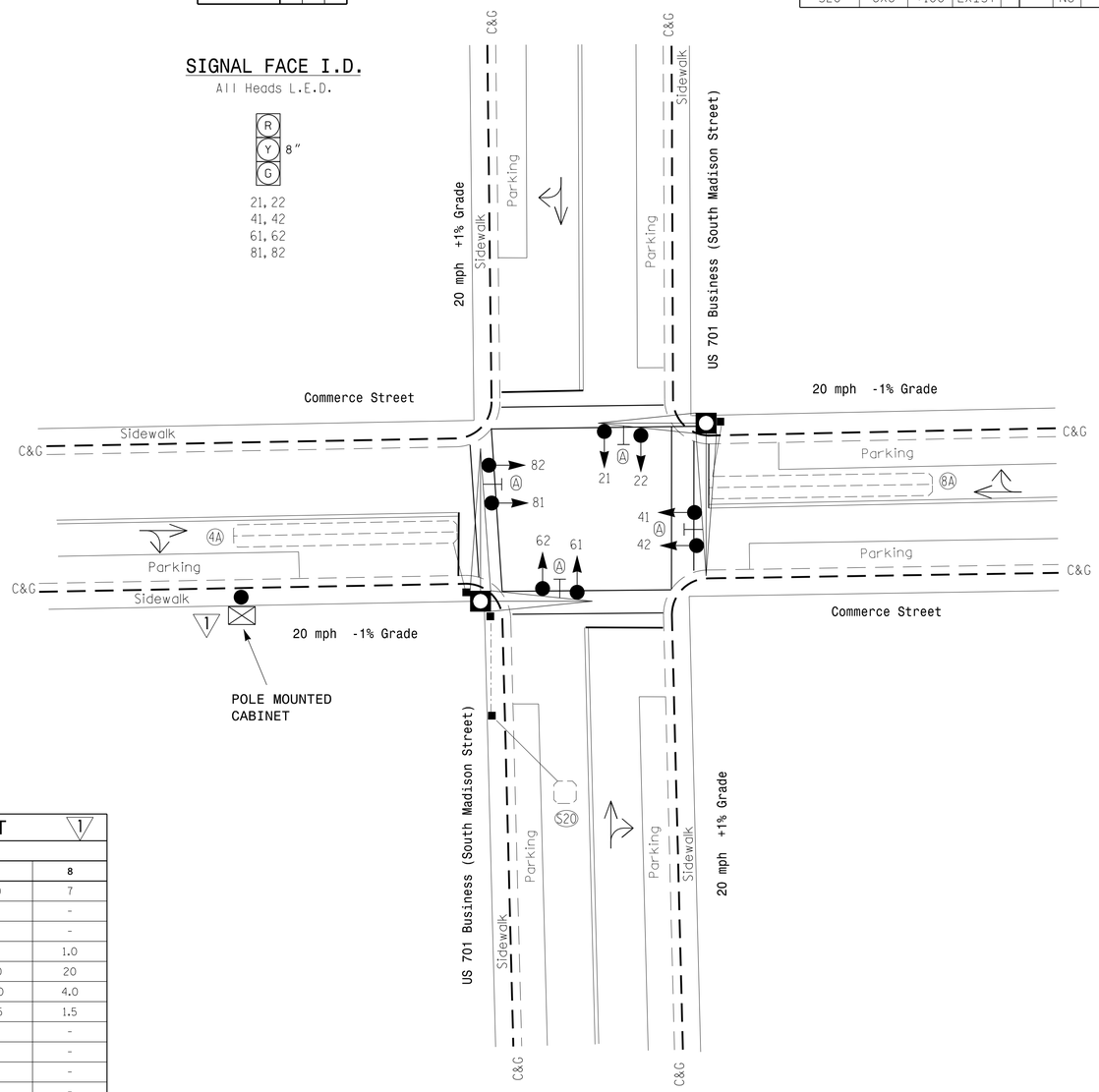
▽ ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
4A	6X60	0	2-4-2	-	4	Yes	-	10	-	N	-	-
8A	6X60	0	2-4-2	-	8	Yes	-	10	-	N	-	-
S20	6X6	+100	EXIST	-	-	No	-	-	-	N	X	-

2 Phase
Semi-Actuated
System #10605 ▽1

NOTES ▽1

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Pavement markings are existing.
4. ~~Run new lead-in cable utilizing existing conduit system~~. ▽1
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
6. Set all detector units to presence mode.



ASC/3 TIMING CHART ▽1

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green *	10	7	10	7
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	-	1.0	-	1.0
Max 1 *	30	20	30	20
Yellow	4.0	4.0	4.0	4.0
Red Clear	1.5	1.5	1.5	1.5
Actuations B4 Add *	-	-	-	-
Seconds /Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Locking Detector				
Recall Position	MAX RECALL	-	MAX RECALL	-
Dual Entry	-	X	-	X
Simultaneous Gap	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.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
⊡↓	Pedestrian Signal Head With Push Button & Sign	■↓
○─	Signal Pole with Guy	●─
○─	Signal Pole with Sidewalk Guy	●─
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
·-·-·	2-in Underground Conduit	·-·-·
N/A	Right of Way	— —
→	Directional Arrow	→
→	Pavement Marking Arrow	→
Ⓐ	Metal Pole with Mastarm No Left Turn Sign (R3-2)	Ⓐ

Signal Revision

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Revision ▽ Seal

NORTH CAROLINA PROFESSIONAL SEAL 14543 ENGINEER GENE G. MURRR JR.

DocuSigned by: Gene G. Murrr Jr. 5/15/2020
SIGNATURE DATE

Prepared for: Transportation Mobility and Safety Division, Signal Design Section, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 20 1"=20'

US 701 Business (South Madison Street) at Commerce Street

Division 6 Columbus County Whiteville

PLAN DATE:	July 2003	REVIEWED BY:	R.J. Ziemba
PREPARED BY:	Hambright/Carter	REVIEWED BY:	

REVISIONS	INIT.	DATE
▽Controller changed to ASC/3 with new cabinet	GCM	05/15/20

SEAL
Not a certified document. This document originally Issued and sealed by Timothy J.Williams,PE. no.24393 on (11/04/03) This document shall not be considered a certified document.

SIGNATURE DATE

SIG. INVENTORY NO. 06-0478

5/15/2020
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