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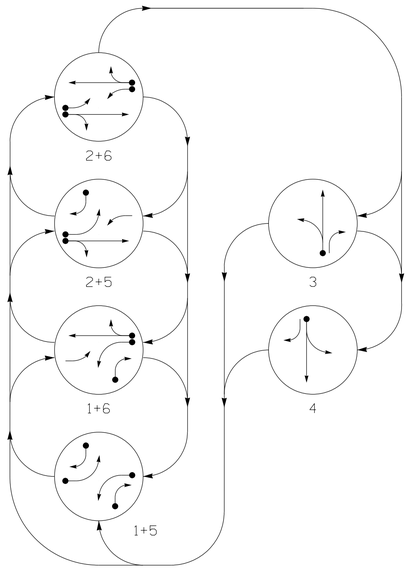
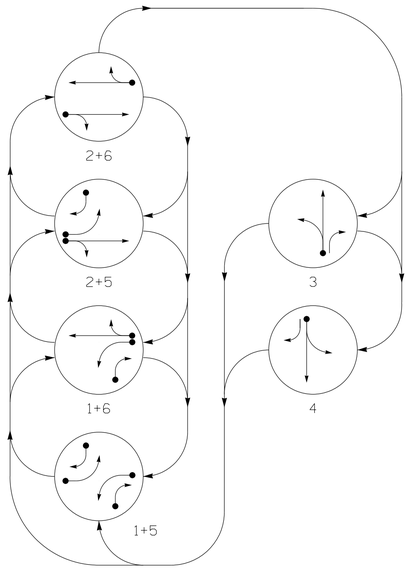
PROJECT REFERENCE NO.	SHEET NO.
U-4758	Sig. 9.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 1+5	1+6	2+5	2+6	3	4	FLASH
11	←G	←G	←FY	←FY	←R	←R	←R
21, 22	R	R	G	G	R	R	R
31	R	R	R	R	←G	R	R
32	R/→G	R/→G	R	R	G	R	R
33	R	R	R	R	G	R	R
41	R	R	R	R	←G	R	R
42	R/→G	R	R/→G	R	R	G	R
43	R	R	R	R	R	G	R
51	←G	←FY	←G	←FY	←R	←R	←R
61, 62, 63	R	G	R	G	R	R	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 1+5	1+6	2+5	2+6	3	4	FLASH
11	←G	←G	←R	←R	←R	←R	←R
21, 22	R	R	G	G	R	R	R
31	R	R	R	R	←G	R	R
32	R/→G	R/→G	R	R	G	R	R
33	R	R	R	R	G	R	R
41	R	R	R	R	←G	R	R
42	R/→G	R	R/→G	R	R	G	R
43	R	R	R	R	R	G	R
51	←G	←R	←G	←R	←R	←R	←R
61, 62, 63	R	G	R	G	R	R	R

ASC/3 DETECTOR INSTALLATION CHART

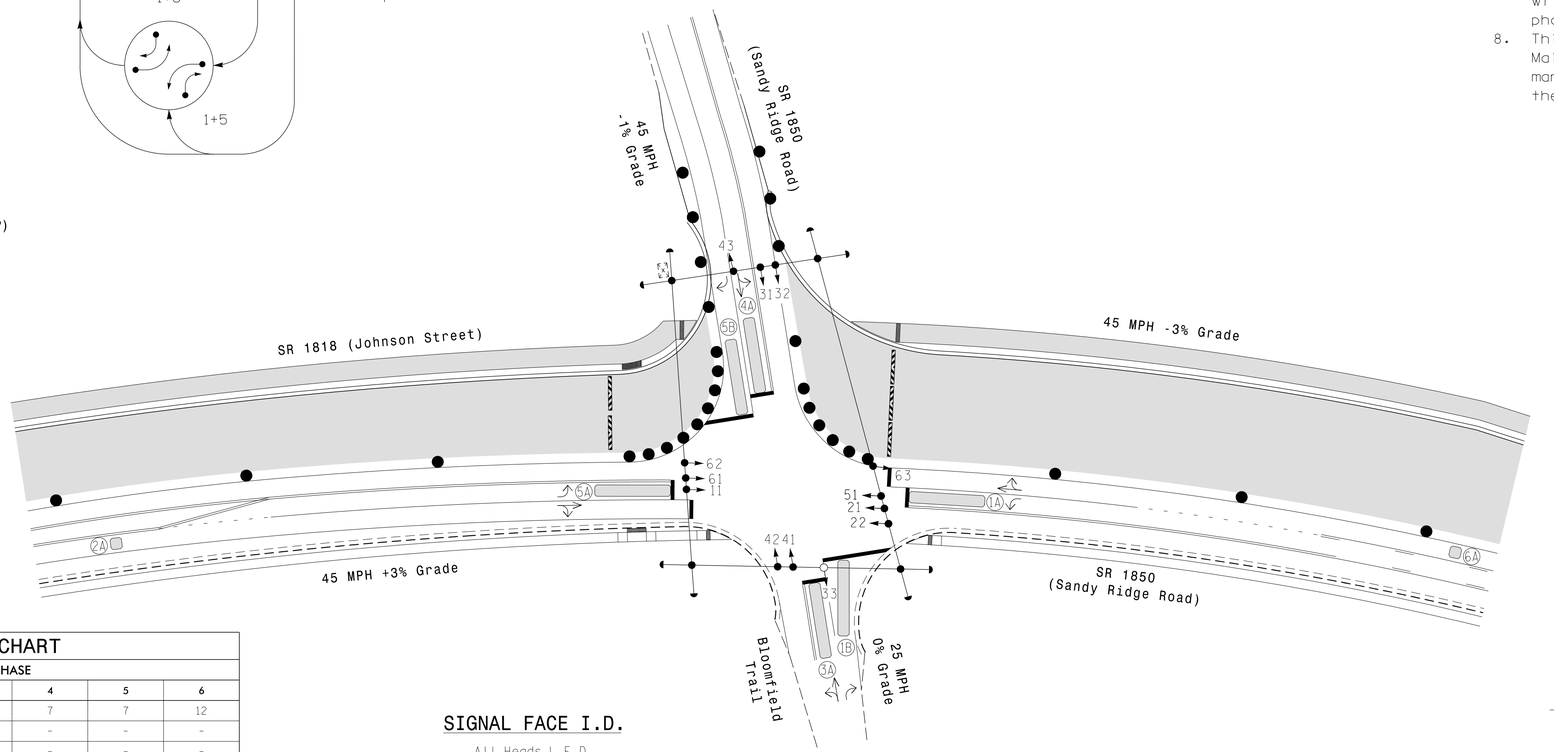
DETECTION ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	PROGRAMMING PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM ZONE	NEW CARD
1A✳	6X40	0	✳	✳	1	Yes	-	15.0✳✳	-	N	-	✳
					6#	Yes	-	3.0	-	G	-	✳
1B✳	6X40	0	✳	✳	1	Yes	-	15.0	-	N	-	✳
2A✳	6X6	300	✳	✳	2	Yes	-	-	X	N	-	✳
3A✳	6X40	0	✳	✳	3	Yes	-	3.0	-	N	-	✳
4A✳	6X40	0	✳	✳	4	Yes	-	3.0	-	N	-	✳
5A✳	6X40	0	✳	✳	5	Yes	-	15.0✳✳	-	N	-	✳
					2#	Yes	-	3.0	-	G	-	✳
5B✳	6X40	0	✳	✳	5	Yes	-	15.0	-	N	-	✳
6A✳	6X6	300	✳	✳	6	Yes	-	-	X	N	-	✳

✳ Non-Intrusive Detection Zone
✳✳ Reduce delay to 3 seconds during alternate phasing operation
Disable phase call for loop(s) during alternate phasing operation

6 Phase Fully Actuated (Isolated)

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. Phase 1 and/or phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Reposition existing signal heads numbered 11, 21, 22, 51, 61, 62 and 63.
6. Set all detector units to presence mode.
7. The Division Traffic Engineer will determine the hours of use for each phasing plan.
8. This intersection uses video detection. Maintain detectors according to the manufacturer's instructions to achieve the desired detection.



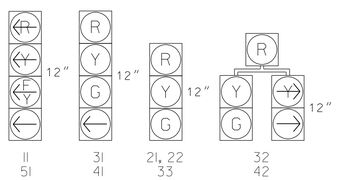
ASC/3 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Delayed Green	-	-	-	-	-	-
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	15	90	30	30	15	90
Yellow	3.0	4.8	3.2	4.6	3.0	4.8
Red Clear	2.3	1.3	2.2	1.1	2.3	1.3
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	2.5	-	-	-	2.5
Max Initial *	-	34	-	-	-	34
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Locking Detector	-	X	-	-	-	X
Recall Position	-	MIN RECALL	-	-	-	MIN RECALL
Dual Entry	-	-	-	-	-	-
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 FACE I.D.

All Heads L.E.D.



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	┈┈
▭	Non-Intrusive Detection Zone	N/A
⊠	Controller & Cabinet	⊠
□	Junction Box	■
┈┈	2-in Underground Conduit	┈·┈·┈
N/A	Right of Way	———
N/A	Guardrail	⊥⊥
N/A	Construction Zone	▭
N/A	Construction Zone Drums	●●
N/A	Type III Barrier	▰▰
N/A	Curb Ramp	◢

Signal Upgrade - Temporary Design 2
(TMP Phase III)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1850 (Sandy Ridge Road)
at
SR 1818 (Johnson Street)/
Bloomfield Trail

Division 7 Guilford County High Point

PLAN DATE: January 2025 REVIEWED BY: AW Encarnacion
PREPARED BY: JT Stiff REVIEWED BY: PL Alexander

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 056276 ENGINEER JAMES T. STIFF
Signed by: James Stiff D54BD037672A434...
3/14/2025
SIGNATURE DATE
SIG. INVENTORY NO. 07-1306T2

AtkinsRéalis
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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STIFF4685 AT LUS491089