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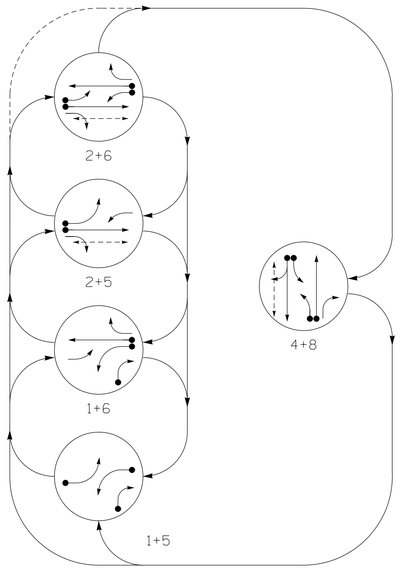
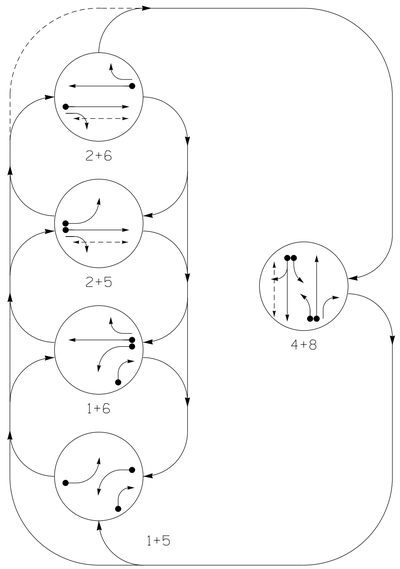
PROJECT REFERENCE NO.	SHEET NO.
U-4758	Sig. 4.0

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	4+8	FLASH
11	←●	←—	←FY	←FY	←R	←R
21, 22	R	R	G	G	R	R
41	←R	←R	←R	←R	←FY	←R
42, 43, 44	R	R	R	R	G	R
51	←—	←FY	←—	←FY	←R	←R
61, 62	R	G	R	G	R	R
81	←R	←R	←R	←R	←FY	←R
82, 84	R	R	R	R	G	R
83	R→	R→	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK

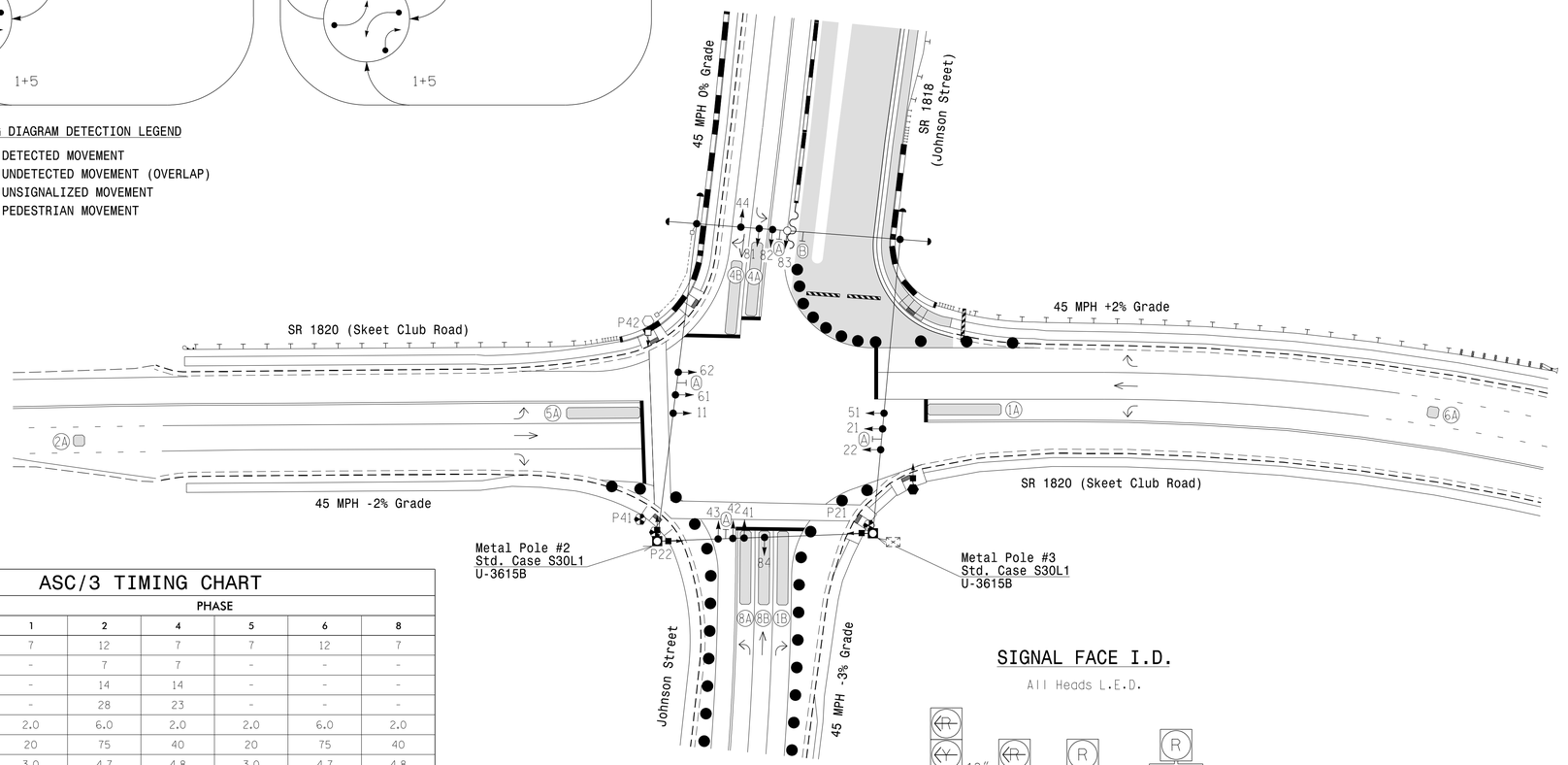
ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 1+5	1+6	2+5	2+6	4+8	FLASH
11	←●	←—	←R	←R	←R	←R
21, 22	R	R	G	G	R	R
41	←R	←R	←R	←R	←FY	←R
42, 43, 44	R	R	R	R	G	R
51	←—	←R	←—	←R	←R	←R
61, 62	R	G	R	G	R	R
81	←R	←R	←R	←R	←FY	←R
82, 84	R	R	R	R	G	R
83	R→	R→	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK

ASC/3 DETECTOR INSTALLATION CHART

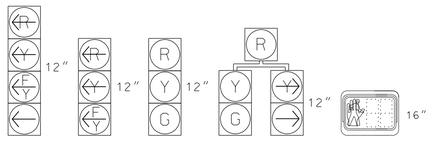
DETECTION ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	PROGRAMMING PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM ZONE	NEW CARD
1A✳	6X40	0	✳	✳	1	Yes	-	15.0✳✳	-	N	-	✳
					6#	Yes	-	3.0	-	G	-	✳
1B✳	6X40	0	✳	✳	1	Yes	-	15.0	-	N	-	✳
2A✳	6X6	300	✳	✳	2	Yes	-	-	X	N	-	✳
4A✳	6X40	0	✳	✳	4	Yes	-	3.0	-	N	-	✳
4B✳	6X40	0	✳	✳	4	Yes	-	10.0	-	N	-	✳
5A✳	6X40	0	✳	✳	5	Yes	-	15.0✳✳	-	N	-	✳
					2#	Yes	-	3.0	-	G	-	✳
6A✳	6X6	300	✳	✳	6	Yes	-	-	X	N	-	✳
8A✳	6X40	0	✳	✳	8	Yes	-	3.0	-	N	-	✳
8B✳	6X40	0	✳	✳	8	Yes	-	-	-	N	-	✳

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



SIGNAL FACE I.D.

All Heads L.E.D.



11
51

41
81

21, 22
42, 43, 44
61, 62
82, 84

83

P21, P22
P41, P42

ASC/3 TIMING CHART

FEATURE	PHASE 1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Delayed Green	-	7	7	-	-	-
Walk *	-	14	14	-	-	-
Ped Clear	-	28	23	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	20	75	40	20	75	40
Yellow	3.0	4.7	4.8	3.0	4.7	4.8
Red Clear	3.6	2.3	1.6	2.6	2.3	1.6
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 **	-	SOFT RECALL	-	-	SOFT 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.
** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

5 Phase Fully Actuated (High Point Signal System)

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. Reposition existing signal heads numbered 41, 42, 43, 44, 81, 82 and 84.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
9. This intersection uses video detection. Maintain detectors according to the manufacturer's instructions to achieve the desired detection.
10. Disconnect and bag pedestrian signal head for P82.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

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	Concrete Barrier	▬
N/A	Construction Zone	▬
N/A	Construction Zone Drums	● ●
N/A	Type III Barrier	▨
◯	Metal Strain Pole	■
✣	Type I Pushbutton Post	✣
⬡	Type II Signal Pedestal	⬢
N/A	Curb Ramp	◢
Ⓐ	Street Name Sign (D3-1) By Others	Ⓐ
Ⓑ	Right Arrow "ONLY" Sign (R3-5R)	Ⓑ

Signal Upgrade - Temporary Design 3
(TMP Phase II)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
Traffic Engineering Branch, Mobility and Safety Division, NCDOT, Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1820 (Skeet Club Road)
at
SR 1818 (Johnson Street)

Division 7 Guilford County High Point
PLAN DATE: January 2025 REVIEWED BY: AM 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...
SIGNATURE 3/14/2025 DATE

SIG. INVENTORY NO. 07-0935T3

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

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