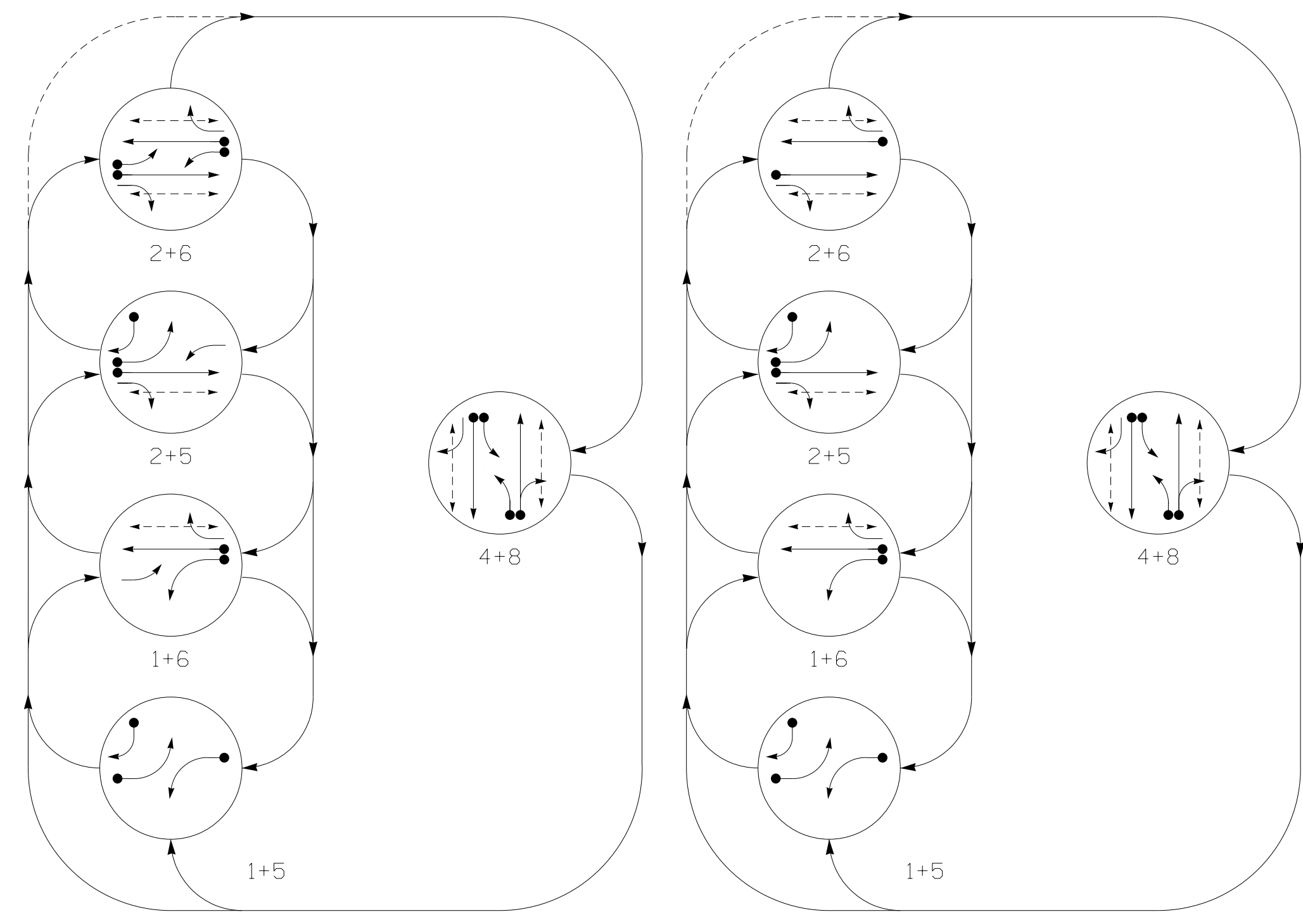


DEFAULT PHASING DIAGRAM

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
11	←	←	←	←	←
21, 22	R	R	G	G	R
41	←	←	←	←	←
42, 44	R	R	R	R	G
43	←	←	←	←	←
51	←	←	←	←	←
61, 62	R	G	R	G	R
81	←	←	←	←	←
82, 83, 84	R	R	R	R	G
P21, P22	DW	DW	W	W	DRK
P41, P42	DW	DW	DW	DW	DRK
P61, P62	DW	W	DW	W	DRK
P81, P82	DW	DW	DW	W	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE				
	1+5	1+6	2+5	2+6	4+8
11	←	←	←	←	←
21, 22	R	R	G	G	R
41	←	←	←	←	←
42, 44	R	R	R	R	G
43	←	←	←	←	←
51	←	←	←	←	←
61, 62	R	G	R	G	R
81	←	←	←	←	←
82, 83, 84	R	R	R	R	G
P21, P22	DW	DW	W	W	DRK
P41, P42	DW	DW	DW	DW	DRK
P61, P62	DW	W	DW	W	DRK
P81, P82	DW	DW	DW	W	DRK

ASC/3 DETECTOR INSTALLATION CHART

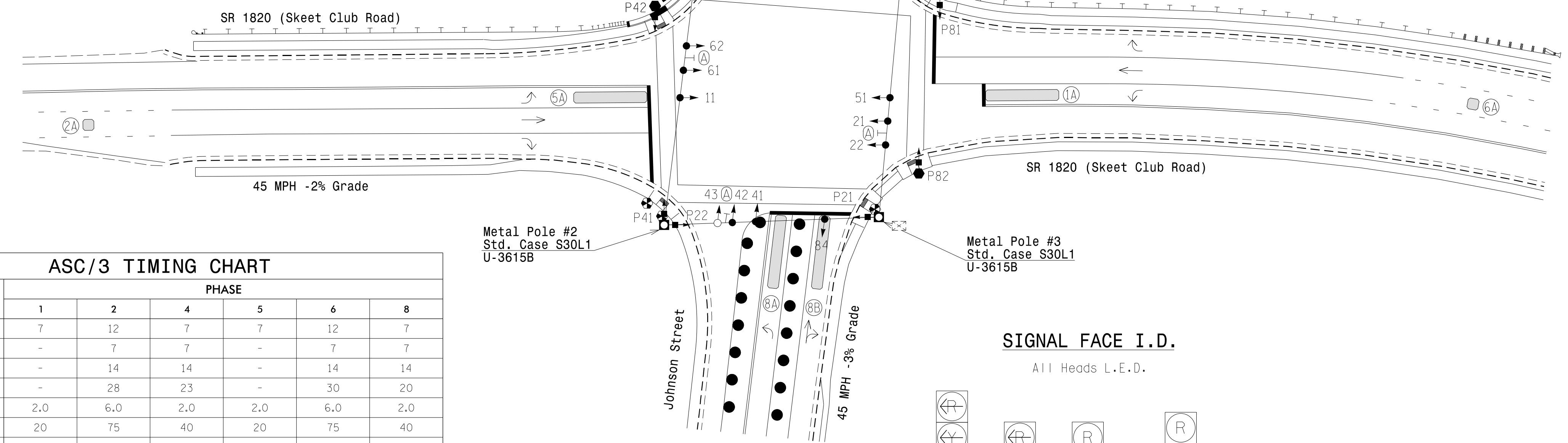
ZONE	DETECTION			PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM ZONE	NEW CARD
1A*	6X40	0	*	1	Yes	-	15.0**	-	N	-	*
2A*	6X6	300	*	2	Yes	-	-	X	N	-	*
4A*	6X40	0	*	4	Yes	-	-	-	N	-	*
4B*	6X40	0	*	4	Yes	-	-	-	N	-	*
5A*	6X40	0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

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

5 Phase Fully Actuated (High Point Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- 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 41, 42, 44, 81, 82, 83 and 84.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses video detection. Maintain 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 supersede these values.

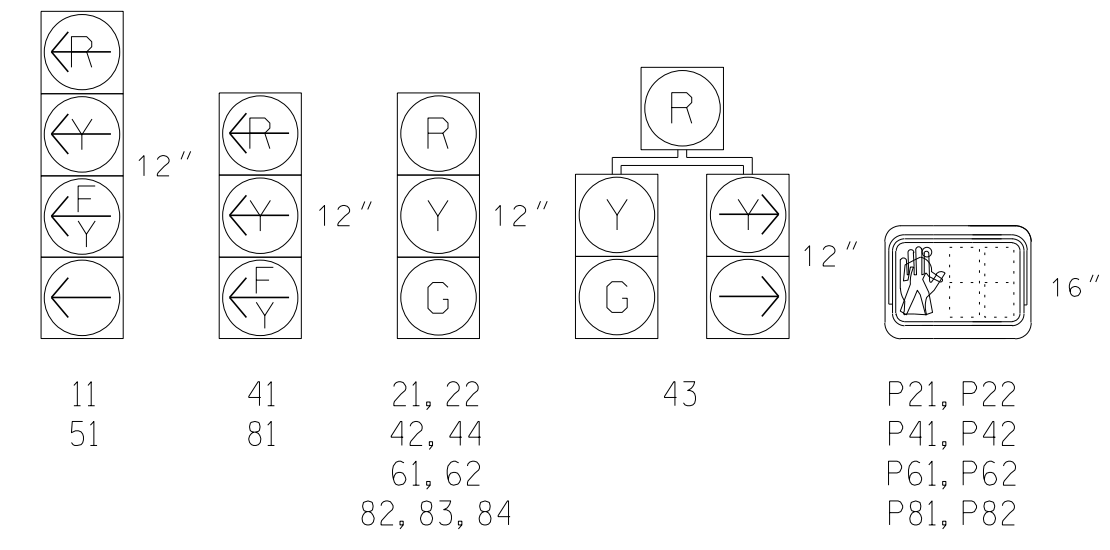


Metal Pole #2 Std. Case S30L1 U-3615B

Metal Pole #3 Std. Case S30L1 U-3615B

SIGNAL FACE I.D.

All Heads L.E.D.



LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
□ → Sign	□ → N/A
○ → Pedestrian Signal Head With Push Button & Sign	○ → N/A
○ → Signal Pole with Guy	○ → N/A
○ → Signal Pole with Sidewalk Guy	○ → N/A
○ → Inductive Loop Detector	○ → N/A
○ → Non-Intrusive Detection Zone	○ → N/A
□ → Controller & Cabinet	□ → N/A
□ → Junction Box	□ → N/A
○ → 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
○ → Metal Strain Pole	○ → N/A
○ → Type I Pushbutton Post	○ → N/A
○ → Type II Signal Pedestal	○ → N/A
○ → Curb Ramp	○ → N/A
○ → Street Name Sign (D3-1) By Others	○ → N/A

ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Delayed Green	-	7	7	-	7	7
Walk *	-	14	14	-	14	14
Ped Clear	-	28	23	-	30	20
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	3.9	2.6	1.8	3.6	2.6	1.8
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.

Signal Upgrade - Temporary Design 4 (TMP Phase IV)

Prepared for the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY DIVISION
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 Signal Design Section
 750 N. Greenfield Pkwy, Garner, NC 27529
 SCALE 1"=40'

SR 1820 (Skeet Club Road) at SR 1818 (Johnson Street)
 Division 7 Guilford County High Point
 PLAN DATE: August 2025 REVIEWED BY: AM Encarnacion
 PREPARED BY: JT Stiff REVIEWED BY: PL Alexander

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 056276
 JAMES T. STIFF

Signed by: James Stiff 8/14/2025
 DATE

SIG. INVENTORY NO. 07-0935T4

AtkinsRéalis
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 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEES #F-0326

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