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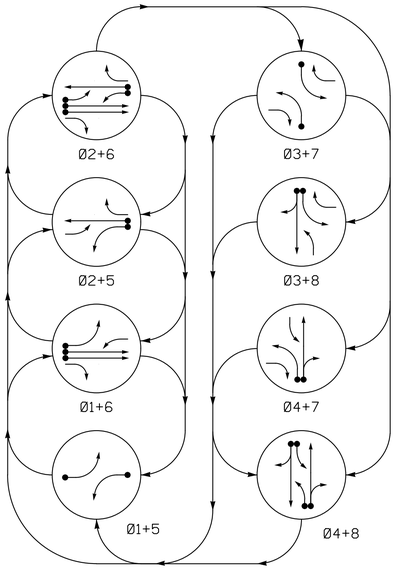
PROJECT REFERENCE NO.	SHEET NO.
U-5738	Sig 6.0

8 Phase Fully Actuated (Salisbury Signal System)

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

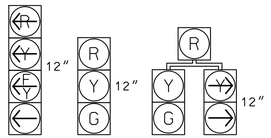
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3+7	Ø3+8	Ø4+7	Ø4+8	FLASH
11	←●	←●	F Y	F Y	~~R~~	~~R~~	~~R~~	~~R~~	~~Y~~
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R/→	R/→	R	R	Y
31	~~R~~	~~R~~	~~R~~	~~R~~	←●	←●	F Y	F Y	~~R~~
41, 42	R	R	R	R	R	R	G	G	R
51	←●	F Y	←●	F Y	~~R~~	~~R~~	~~R~~	~~R~~	~~Y~~
61	R	G	R	G	R	R	R	R	Y
62	R	G	R	G	R/→	R	R/→	R	Y
71	~~R~~	~~R~~	~~R~~	~~R~~	←●	F Y	←●	F Y	~~R~~
81, 82	R	R	R	R	R	G	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



11	21	22
31	41, 42	62
51	61	
71	81, 82	

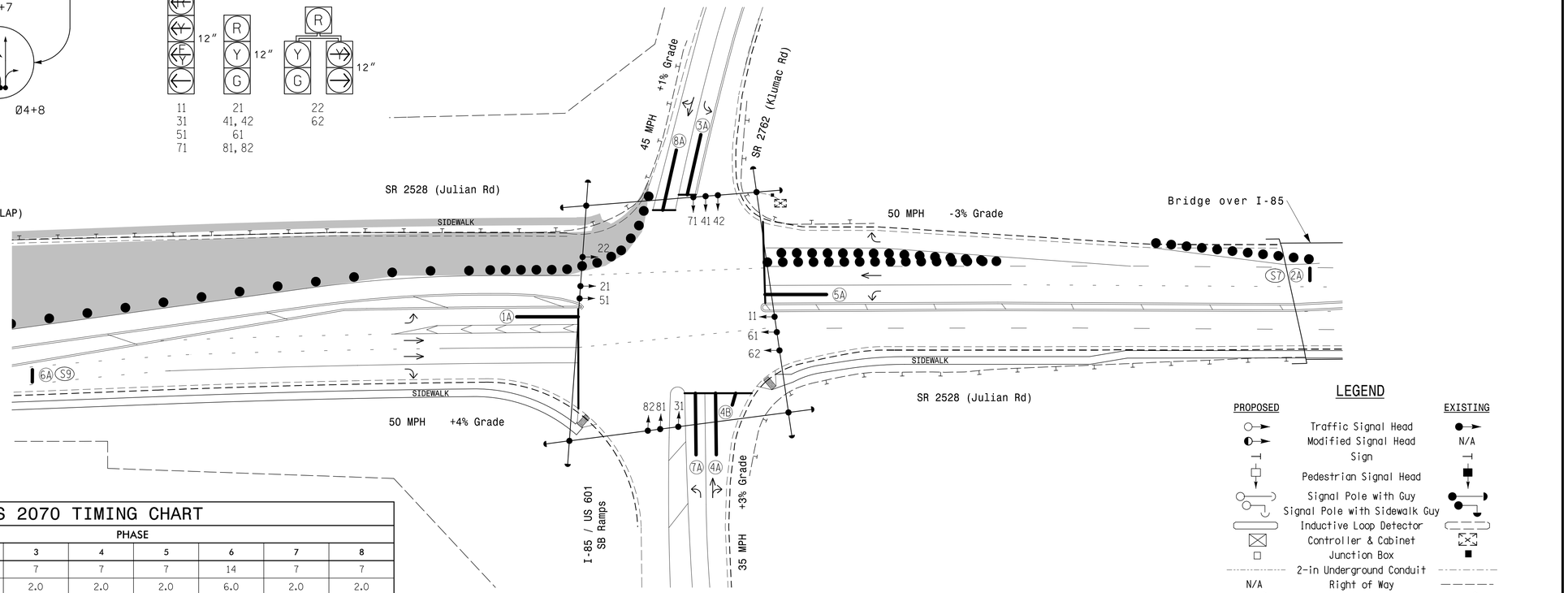
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	✳	✳	1	Y	Y	-	-	15	-	✳
					6	Y	Y	Y	-	3	-	✳
2A/S7	6X6	355	✳	✳	2	Y	Y	-	-	-	Y	✳
3A	6X40	0	✳	✳	3	Y	Y	-	-	15	-	✳
					8	Y	Y	-	-	3	-	✳
4A	6X40	0	✳	✳	4	Y	Y	-	-	10	-	✳
4B	6X6	0	✳	✳	4	Y	Y	-	-	15	-	✳
5A	6X40	0	✳	✳	5	Y	Y	-	-	15	-	✳
					2	Y	Y	Y	-	3	-	✳
6A/S9	6X6	355	✳	✳	6	Y	Y	-	-	-	Y	✳
7A	6X40	0	✳	✳	7	Y	Y	-	-	15	-	✳
					4	Y	Y	-	-	-	-	✳
8A	6X40	0	✳	✳	8	Y	Y	-	-	10	-	✳

✳ Video Detection Zone

NOTES

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. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Reposition existing signal heads numbered 11, 21, 22, 51, 61 and 62.
6. Adjust the video imaging loop emulator detection system to maintain vehicle detection during construction and obtain optimum detection zones as shown.
7. Set all detector units to presence mode.
8. 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	■↓
○	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	→
●●●	Construction Zone Drums	●●●
▒▒▒	Construction Zone	▒▒▒
▬▬	Video Detection Area	▬▬
N/A	Curb Ramp	◢
N/A	Guardrail	⊥⊥

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	7	8
Min Green 1 *	7	14	7	7	7	14	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	25	90	20	35	25	90	20	35
Yellow Clearance	3.0	5.1	3.0	4.4	3.0	5.1	3.0	4.4
Red Clearance	3.2	1.7	2.9	2.2	3.1	1.7	2.9	2.2
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	2.5	-	-	-	2.5	-	-
Max Variable Initial *	-	40	-	-	-	40	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	ON	-	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON	ON	ON

* 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.

(TMP Phase II)
Signal Upgrade - Temporary Design 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PREPARED IN THE OFFICE OF:
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Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 2528 (Julian Rd)
at
I-85/US 601 SB Ramps and
SR 2762 (Klumac Rd)

Division 9 | Rowan County | Salisbury

PLAN DATE: November 2021 | REVIEWED BY: B. Phillips
PREPARED BY: Z. "Gavin" Teng | REVIEWED BY:

SCALE 1" = 40' (0 — 40)

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 032179 ENGINEER HAOLONG TENG
DocuSigned by: Haolong Teng 12/3/2021
ORIGINATORS | DATE

SIG. INVENTORY NO. 09-0991T2

$$$$ASCVISTIME$$$$
$$$$SIGNALTIMES$$$$
$$$$PEDTIMES$$$$
$$$$USERNAME$$$$