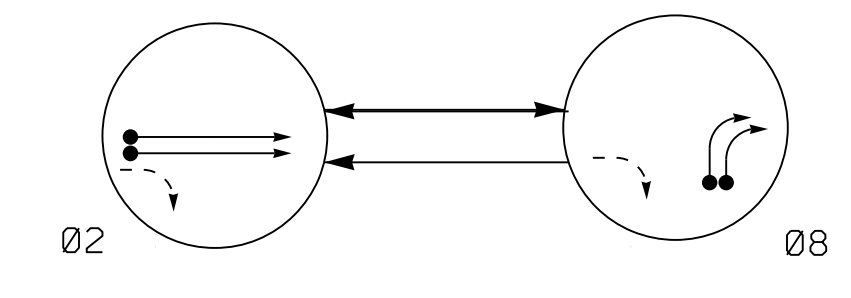


PHASING DIAGRAM

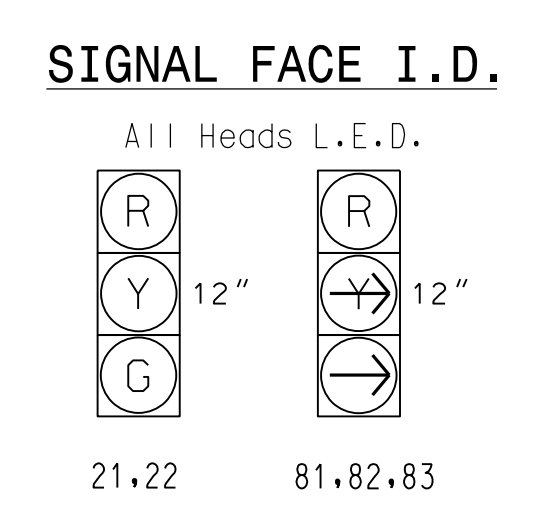


PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02	08	FLIGHTS
21,22	G	R	Y
81,82,83	R	→	R



ASC/3 DETECTOR INSTALLATION CHART

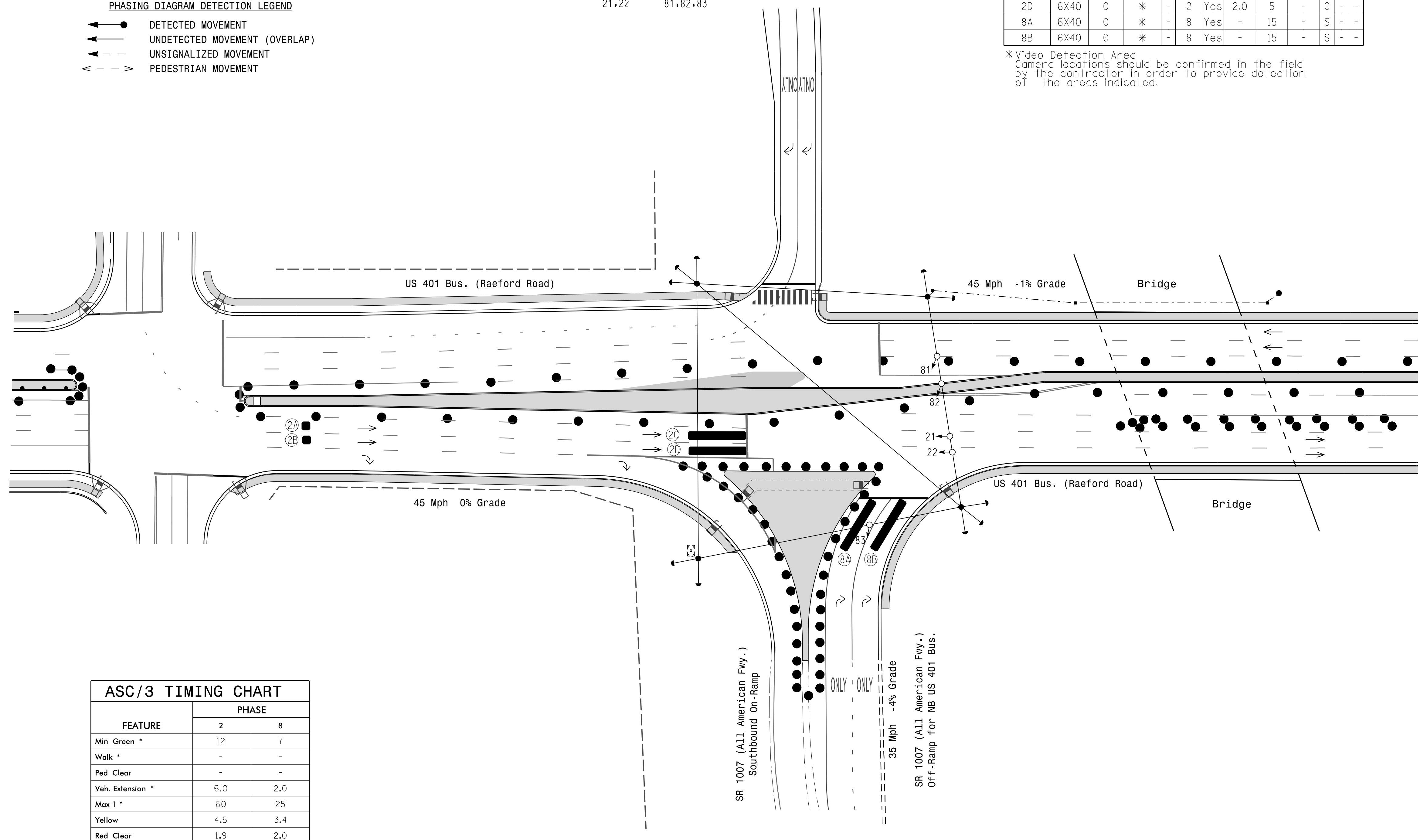
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	DETECTOR		PROGRAMMING							
			TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP SYSTEM	NEW CARD
2A	6X6	300	*	-	2	Yes	-	-	-	N	-	-
2B	6X6	300	*	-	2	Yes	-	-	-	N	-	-
2C	6X40	0	*	-	2	Yes	2.0	5	-	G	-	-
2D	6X40	0	*	-	2	Yes	2.0	5	-	G	-	-
8A	6X40	0	*	-	8	Yes	-	15	-	S	-	-
8B	6X40	0	*	-	8	Yes	-	15	-	S	-	-

*Video Detection Area
Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.

2 Phase Fully Actuated Fayetteville Signal System

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. Set all detector units to presence mode.
4. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART

FEATURE	PHASE	
	2	8
Min Green *	12	7
Walk *	-	-
Ped Clear	-	-
Veh. Extension *	6.0	2.0
Max I *	60	25
Yellow	4.5	3.4
Red Clear	1.9	2.0
Red Revert	-	-
Actuations B4 Add *	-	-
Seconds /Actuation *	-	-
Max Initial *	-	-
Time Before Reduction *	15	-
Time To Reduce *	30	-
Minimum Gap	3.0	-
Locking Detector	-	-
Recall Position	VEH. RECALL	-
Dual Entry	-	-
Simultaneous Gap	-	-

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 8 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
● → Modified Signal Head	— Sign
⊥ Pedestrian Signal Head	⊥ Sign
○ ⊥ Signal Pole with Guy	● ⊥ Signal Pole with Sidewalk Guy
⊠ Inductive Loop Detector	⊠ Controller & Cabinet
□ Junction Box	■ Junction Box
- - - 2-in Underground Conduit	- - - Right of Way
N/A → Directional Arrow	→ Directional Arrow
▬ Video Detection Area	N/A
▬ Construction Zone	N/A
● ● Drums	N/A

Signal Upgrade Temporary Design 3 - TMP Phase III

Stantec

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Prepared for the Offices of:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N. Greenfield Pkwy, Garner, NC 27526

SCALE: 0 40
1" = 40'

US 401 Bus. (Raeford Road) at SR 1007 (All American Freeway) Southbound Ramps

Division 6 Cumberland County Fayetteville

PLAN DATE: March 2018 REVIEWED BY: E D Harris

PREPARED BY: J. Hambricht REVIEWED BY: B L Watson

REVISIONS	INIT.	DATE

Professional Engineer Seal

SEAL 29449

ENGINEER Betsy L. Watson

DATE 3/29/2018

SIG. INVENTORY NO. 06-032013

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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