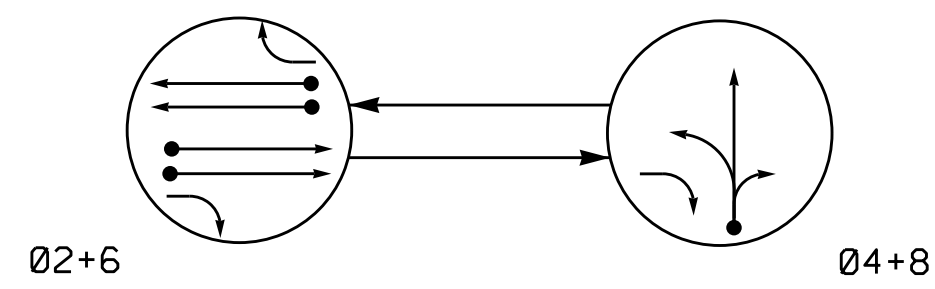


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

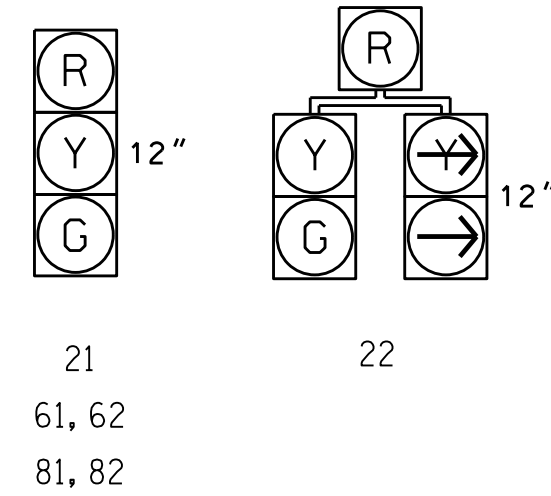
- ←●→ DETECTED MOVEMENT
- ←→ UNDETECTED MOVEMENT (OVERLAP)
- ←- - - UNSIGNALIZED MOVEMENT
- ←- - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

| SIGNAL FACE | PHASE | | |
|-------------|-------|-----|--------|
| | Ø 6 | Ø 8 | F LASH |
| 21 | G | R | Y |
| 22 | G | R | Y |
| 61,62 | G | R | Y |
| 81,82 | R | G | R |

SIGNAL FACE I.D.

All Heads L.E.D.



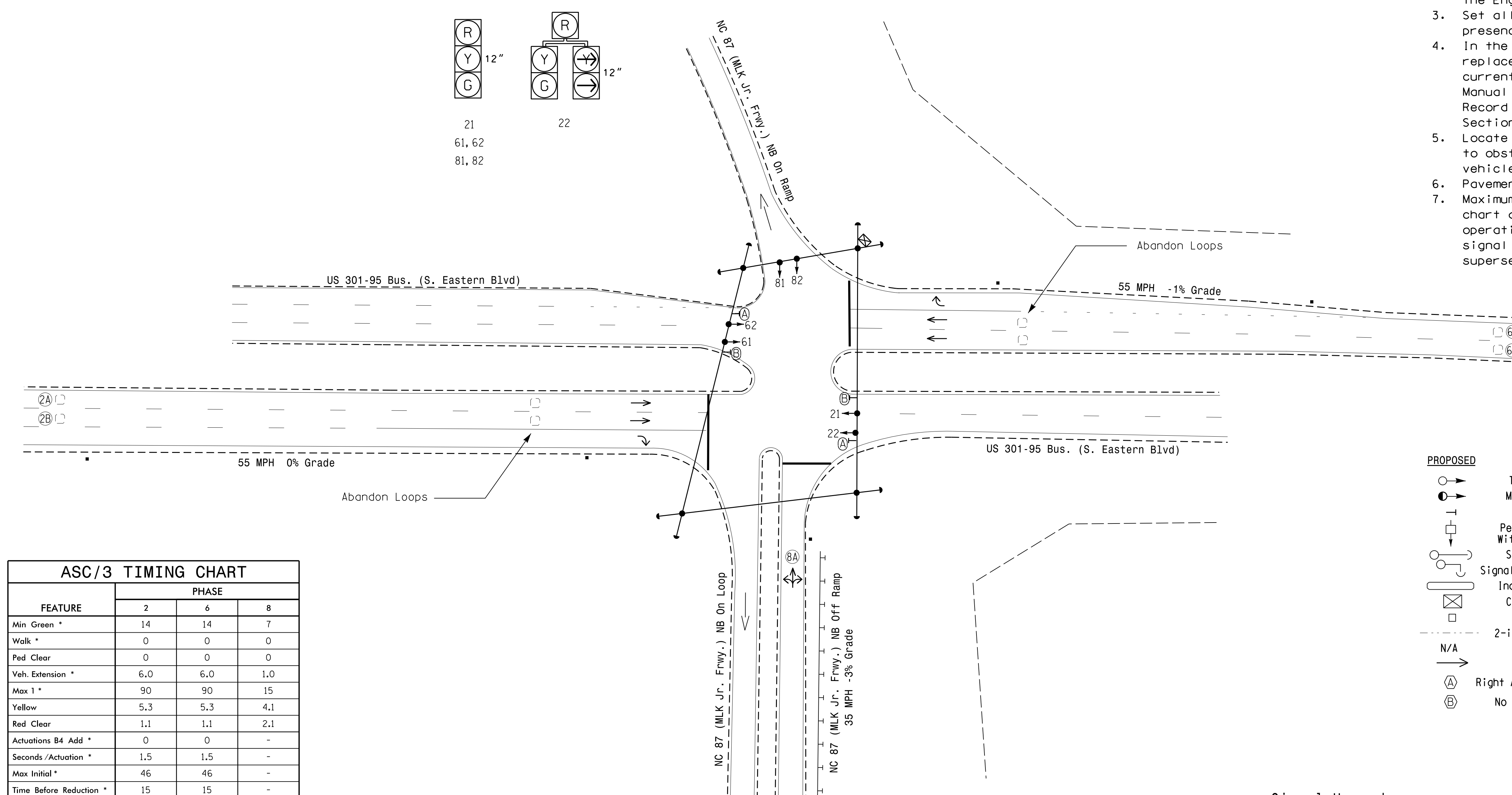
ASC/3 DETECTOR INSTALLATION CHART

| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PROGRAMMING | | | | | TYPE | SYSTEM LOOP | NEW CARD |
|-------|-----------|----------------------------|-------|----------|-------------|---------|-------------|------------|---|------|-------------|----------|
| | | | | | PHASE | CALLING | EXTEND TIME | DELAY TIME | | | | |
| 2A,2B | 6X6 | 420 | 6 | - | 2 | Yes | - | - | N | - | X | |
| 6A,6B | 6X6 | 420 | 6 | - | 6 | Yes | - | - | N | - | X | |
| 8A | 6X60 | +5 | 2-4-2 | - | 8 | Yes | - | - | S | - | X | |

2 Phase Fully Actuated Fayetteville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
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. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



| FEATURE | PHASE | | |
|-------------------------|-------------|-------------|-----|
| | 2 | 6 | 8 |
| Min Green * | 14 | 14 | 7 |
| Walk * | 0 | 0 | 0 |
| Ped Clear | 0 | 0 | 0 |
| Veh. Extension * | 6.0 | 6.0 | 1.0 |
| Max I * | 90 | 90 | 15 |
| Yellow | 5.3 | 5.3 | 4.1 |
| Red Clear | 1.1 | 1.1 | 2.1 |
| Actuations B4 Add * | 0 | 0 | - |
| Seconds / Actuation * | 1.5 | 1.5 | - |
| Max Initial * | 46 | 46 | - |
| Time Before Reduction * | 15 | 15 | - |
| Time To Reduce * | 30 | 30 | - |
| Minimum Gap | 3.4 | 3.4 | - |
| Locking Detector | X | X | - |
| Recall Position | VEH. RECALL | VEH. RECALL | - |
| Dual Entry | - | - | - |
| Simultaneous Gap | 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.

LEGEND

- | PROPOSED | EXISTING |
|----------|----------|
| | |
| | N/A |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Signal Upgrade

US 301-95 Bus. (S. Eastern Blvd.)
at
NC 87 (MLK, Jr. Frwy.) NB Off Ramp/On Loop/
NC 87 (MLK, Jr. Frwy.) NB On Ramp

Division 6 Cumberland County Fayetteville

PLAN DATE: May 2016 REVIEWED BY: JPG

PREPARED BY: KGP, Jr. REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1" = 40'

DATE: 5/23/2016

SIG. INVENTORY NO. 06-0936

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SEAL

SEAL 029904

SEAL 029904

DATE: 5/23/2016