

PHASING DIAGRAM

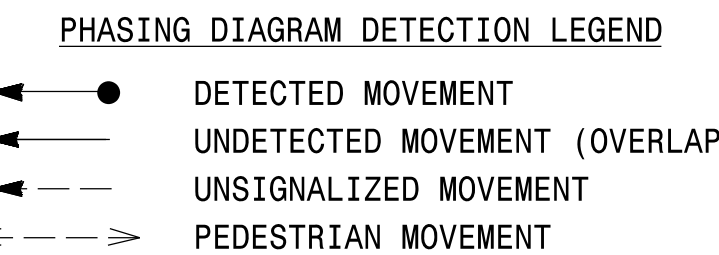
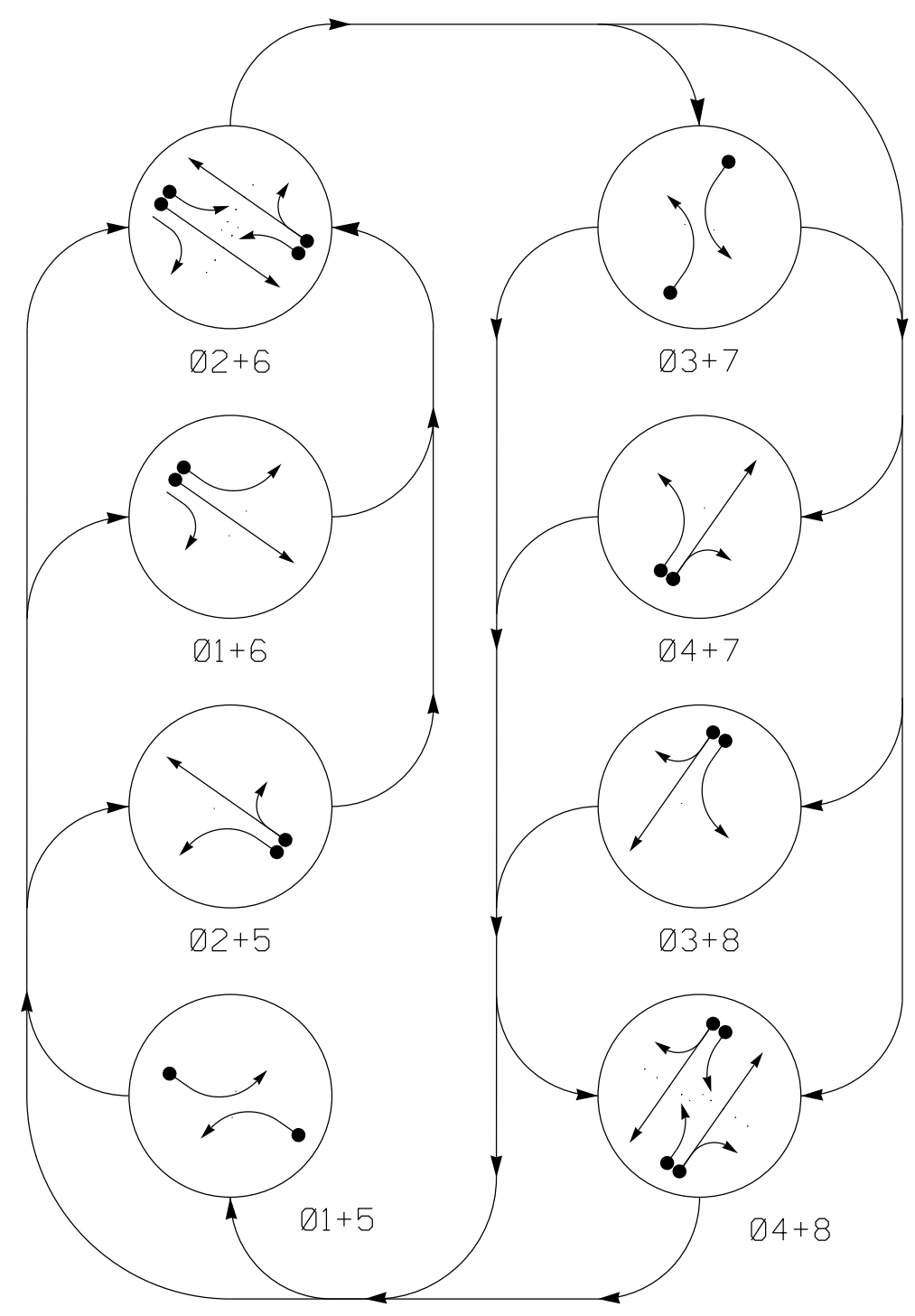
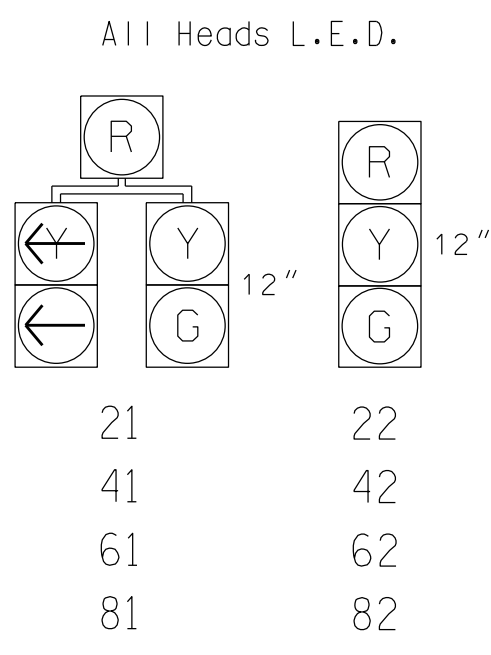


TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | | | | | |
|-------------|-------|------|------|------|------|------|------|------|
| | Ø1+5 | Ø1+6 | Ø2+5 | Ø2+6 | Ø3+7 | Ø3+8 | Ø4+7 | Ø4+8 |
| 21 | R | R | G | G | R | R | R | Y |
| 22 | R | R | G | G | R | R | R | Y |
| 41 | R | R | R | R | R | R | G | R |
| 42 | R | R | R | R | R | R | G | R |
| 61 | R | G | R | G | R | R | R | Y |
| 62 | R | G | R | G | R | R | R | Y |
| 81 | R | R | R | R | R | G | R | R |
| 82 | R | R | R | R | R | G | R | R |

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PROGRAMMING | | | | | | |
|------|-----------|----------------------------|-------|----------|-------------|---------|-------------|------------|------|-------------|----------|
| | | | | | PHASE | CALLING | EXTEND TIME | DELAY TIME | TYPE | SYSTEM LOOP | NEW CARD |
| 1A | 6X40 | 0 | 2-4-2 | N | 6 | Yes | - | 3 | S | - | Y |
| 2A | 6X6 | 70 | 4 | N | 2 | Yes | - | - | S | - | Y |
| 3A | 6X40 | 0 | 2-4-2 | N | 8 | Yes | - | 3 | S | - | Y |
| 4A | 6X40 | 0 | 2-4-2 | N | 4 | Yes | - | - | S | - | Y |
| 5A | 6X40 | 0 | 2-4-2 | N | 5 | Yes | - | 15 | S | - | Y |
| 6A | 6X6 | 70 | 4 | N | 6 | Yes | - | - | S | - | Y |
| 7A | 6X40 | 0 | 2-4-2 | N | 4 | Yes | - | 3 | S | - | Y |
| 8A | 6X40 | 0 | 2-4-2 | N | 8 | Yes | - | - | S | - | Y |
| S2A | 6X6 | +200 | 4 | N | SYS | No | - | - | S | - | Y |
| S6A | 6X6 | +300 | 4 | N | SYS | No | - | - | S | - | Y |

8 PHASE FULLY ACTUATED (FAYETTEVILLE SIGNAL SYSTEM)

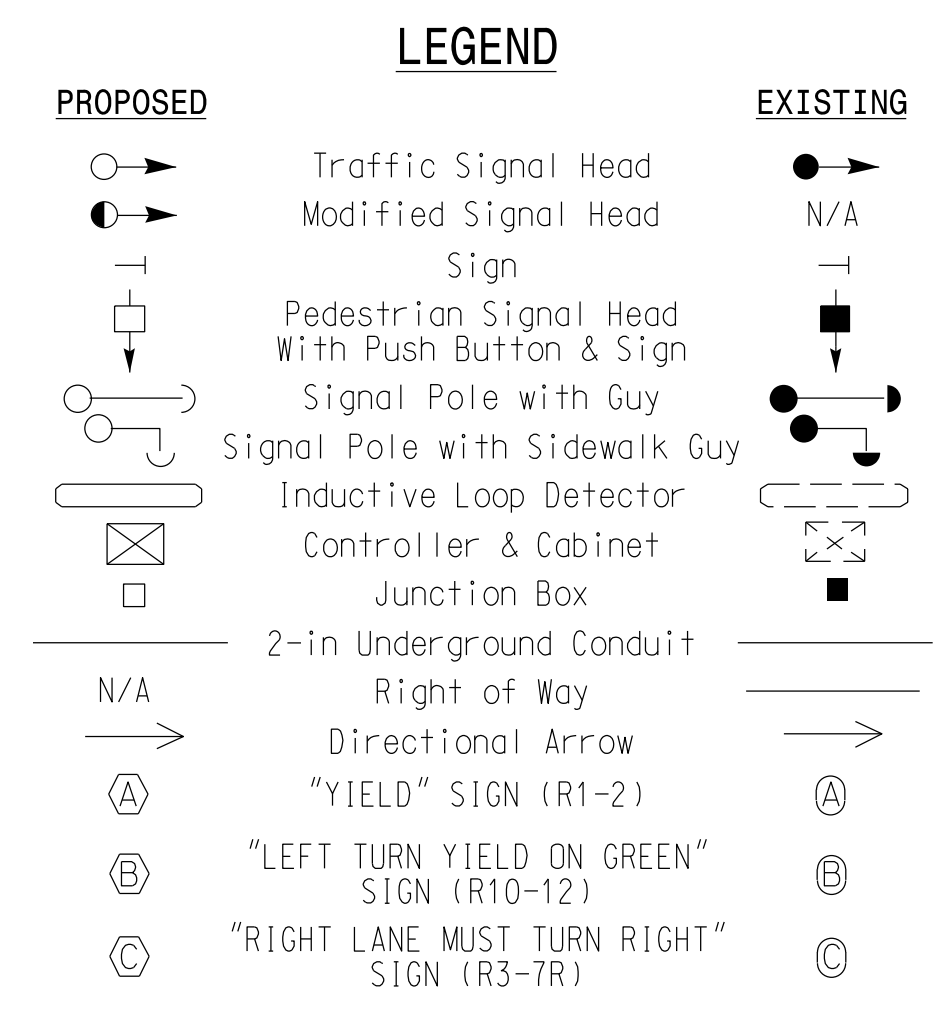
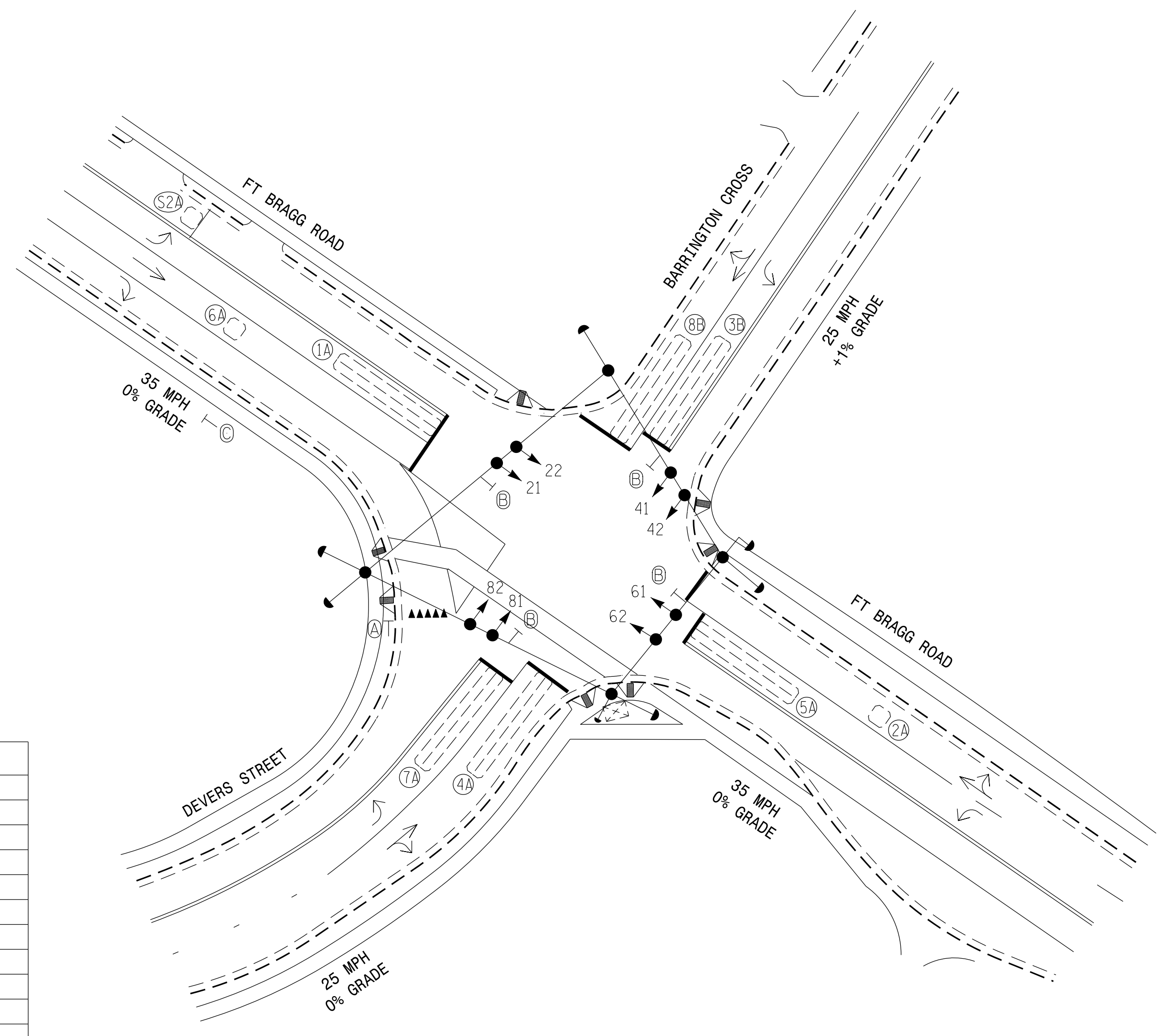
NOTES

- REFER TO "ROADWAY STANDARD DRAWINGS NCDOT" DATED JANUARY 2012 AND "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
- PAVEMENT MARKINGS ARE EXISTING.
- MAXIMUM TIMES SHOWN IN TIMINGS CHART ARE FOR FREE-RUN OPERATION ONLY. COORDINATED SIGNAL SYSTEM TIMING VALUES SHALL SUPERCEDE THESE VALUES.
- THIS SIGNAL IS PART OF THE FAYETTEVILLE SIGNAL SYSTEM.
- INSTALL NEW CABINET ON EXISTING FOUNDATION.
- OMIT PHASE 1 DURING PHASE 2 ON.
- OMIT PHASE 5 DURING PHASE 6 ON.
- OMIT PHASE 3 DURING PHASE 4 ON.
- OMIT PHASE 7 DURING PHASE 8 ON.
- ENABLE DYNAMIC/BACKUP CONTROL FUNCTIONS 1,2,3, AND 4.
- IN THE EVENT OF LOOP REPLACEMENT, REFER TO THE CURRENT ITS AND SIGNALS DESIGN MANUAL AND SUBMIT A PLAN OF RECORD TO THE CITY TRAFFIC ENGINEER.

ASC/3 TIMING CHART

| FEATURE | PHASE | | | | | | | |
|-------------------------|-------|------------|-----|-----|-----|------------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Min Green * | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 |
| Walk * | - | - | - | - | - | - | - | - |
| Ped Clear | - | - | - | - | - | - | - | - |
| Veh. Extension * | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 3.0 | 1.0 | 1.0 |
| Max 1 * | 20 | 50 | 20 | 30 | 20 | 50 | 20 | 30 |
| Yellow | 3.2 | 3.8 | 3.1 | 3.8 | 3.2 | 3.8 | 3.2 | 3.8 |
| Red Clear | 2.0 | 1.1 | 1.7 | 1.2 | 1.7 | 1.7 | 1.8 | 1.2 |
| Red Revert | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Actuations B4 Add * | - | - | - | - | - | - | - | - |
| Seconds / Actuation * | - | - | - | - | - | - | - | - |
| Max Initial * | - | - | - | - | - | - | - | - |
| Time Before Reduction * | - | - | - | - | - | - | - | - |
| Time To Reduce * | - | - | - | - | - | - | - | - |
| Minimum Gap | - | - | - | - | - | - | - | - |
| Locking Detector | - | X | - | - | - | X | - | - |
| Recall Position | - | MIN RECALL | - | - | - | MIN RECALL | - | - |
| Dual Entry | - | - | - | X | - | - | - | X |
| Simultaneous Gap | X | X | 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.



Signal Upgrade

Prepared In the Offices of:

Hatch Mott MacDonald
P.O. Box 700
Fayetteville, NC 27526
www.hatchmott.com

HATCH MOTT MACDONALD & E, LLC
LICENSE NO. F4669

FT BRAGG ROAD AT DEVERS STREET/ BARRINGTON CROSS

DIV 06 CUMBERLAND COUNTY FAYETTEVILLE

PLAN DATE: NOVEMBER 2016 REVIEWED BY: RWT

PREPARED BY: RTP REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
| | | |

SEAL

Richard T. Pate
11/21/2016

SIG. INVENTORY NO. C005

default \\NCF-DATA\Proj\360655_U-5742_Fay-Sig\Project\SIGNALS\Revised 1172016\Ft Bragg @ Barrington.dgn 11/17/2016 2:16:45 PM