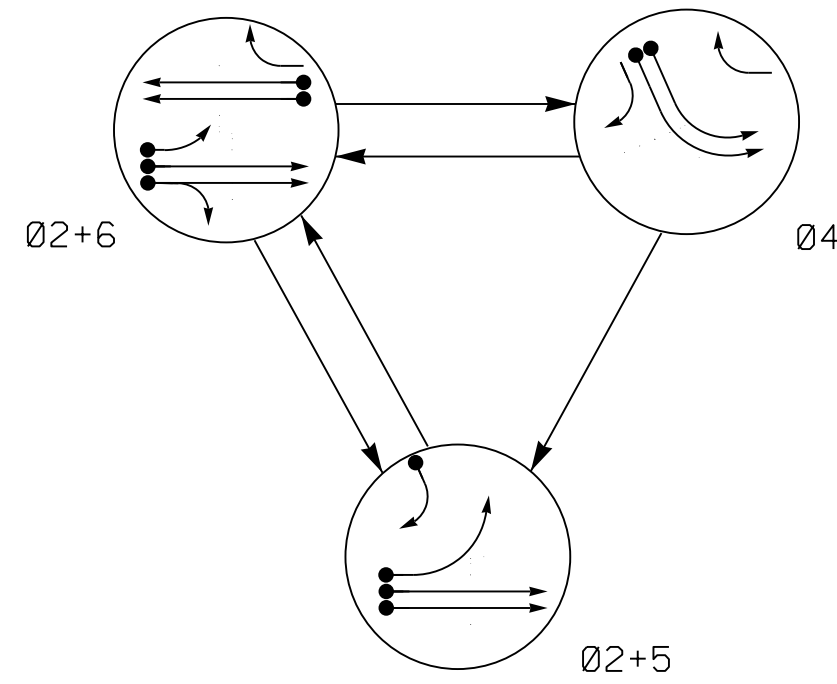


PHASING DIAGRAM



| SIGNAL FACE | PHASE |      |    |      |
|-------------|-------|------|----|------|
|             | 02+5  | 02+6 | 04 | 02+5 |
| 21,22       | G     | G    | R  | Y    |
| 41,43       | R     | R    | G  | R    |
| 42          | R     | R    | G  | R    |
| 51          | R     | G    | R  | Y    |
| 61          | R     | G    | R  | Y    |
| 62          | R     | G    | R  | Y    |

| ASC/3 DETECTOR INSTALLATION CHART |           |                            |       |          |       |             |             |            |                   |      |                      |
|-----------------------------------|-----------|----------------------------|-------|----------|-------|-------------|-------------|------------|-------------------|------|----------------------|
| DETECTOR                          |           |                            |       |          |       | PROGRAMMING |             |            |                   |      |                      |
| LOOP                              | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | CALLING     | EXTEND TIME | DELAY TIME | USE ADDED INITIAL | TYPE | SYSTEM LOOP NEW CARD |
| 2A/S15                            | 6X6       | 300                        | EXIST | -        | 2     | Yes         | -           | -          | X                 | N    | X                    |
| 2B/S16                            | 6X6       | 300                        | EXIST | -        | 2     | Yes         | -           | -          | X                 | N    | X                    |
| 4A                                | 6X60      | +10                        | 2-4-2 | -        | 4     | Yes         | -           | 3          | -                 | N    | -                    |
| 4B                                | 6X60      | 0                          | 2-4-2 | -        | 4     | Yes         | -           | -          | -                 | N    | -                    |
| 5A                                | 6X60      | 0                          | 2-4-2 | -        | 5     | Yes         | -           | 15         | -                 | N    | -                    |
| 5B                                | 6X60      | 0                          | 2-4-2 | -        | 5     | Yes         | -           | 15         | -                 | N    | -                    |
| 6A/S13                            | 6X6       | 300                        | EXIST | -        | 6     | Yes         | -           | -          | X                 | N    | X                    |
| 6B/S14                            | 6X6       | 300                        | EXIST | -        | 6     | Yes         | -           | -          | X                 | N    | X                    |

3 Phase Fully Actuated System #10605

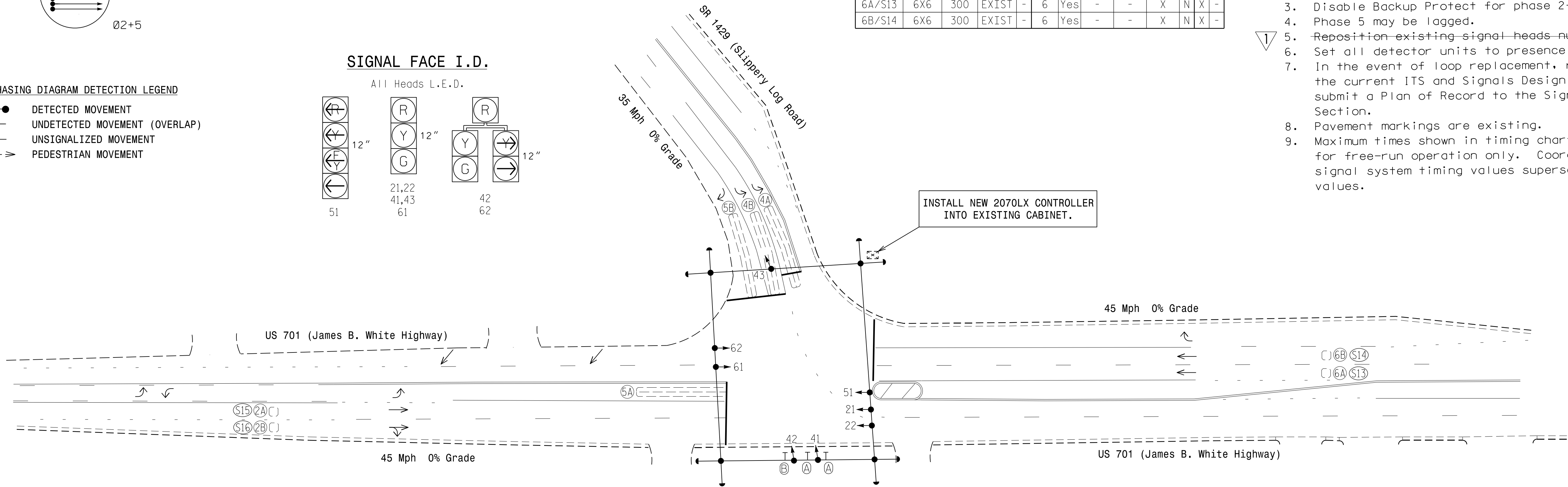
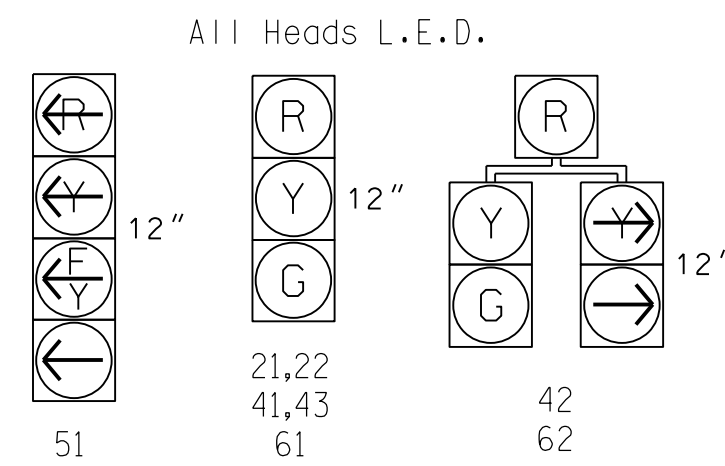
NOTES

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. Disable Backup Protect for phase 2+6.
4. Phase 5 may be lagged.
5. Reposition existing signal heads numbered 22.
6. Set all detector units to presence mode.
7. 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.
8. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.



INSTALL NEW 2070LX CONTROLLER INTO EXISTING CABINET.

| FEATURE                 | PHASE       |     |     |             |
|-------------------------|-------------|-----|-----|-------------|
|                         | 2           | 4   | 5   | 6           |
| Min Green *             | 12          | 7   | 7   | 12          |
| Walk *                  | -           | -   | -   | -           |
| Ped Clear               | -           | -   | -   | -           |
| Veh. Extension *        | 6.0         | 1.0 | 1.0 | 6.0         |
| Max 1 *                 | 90          | 20  | 25  | 90          |
| Yellow                  | 4.5         | 3.0 | 3.0 | 4.5         |
| Red Clear               | 1.5         | 3.3 | 2.9 | 1.5         |
| Actuations B4 Add *     | 0           | -   | -   | 0           |
| Seconds / Actuation *   | 1.5         | -   | -   | 1.5         |
| 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         | VEH. RECALL | -   | -   | VEH. RECALL |
| Dual Entry              | -           | -   | -   | -           |
| Simultaneous Gap        | 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.

LEGEND

- | PROPOSED   | EXISTING   |
|--|--|
| ○ Traffic Signal Head                            | ● Traffic Signal Head                            |
| ○ Modified Signal Head                           | N/A  |
| ○ Sign   | ○ Sign   |
| ○ Pedestrian Signal Head With Push Button & Sign | ○ Pedestrian Signal Head With Push Button & Sign |
| ○ Signal Pole with Guy                           | ○ Signal Pole with Guy                           |
| ○ Signal Pole with Sidewalk Guy                  | ○ Signal Pole with Sidewalk Guy                  |
| ○ Inductive Loop Detector                        | ○ Inductive Loop Detector                        |
| ○ Controller & Cabinet                           | ○ Controller & Cabinet                           |
| ○ Junction Box                                   | ○ Junction Box                                   |
| ○ 2-in Underground Conduit                       | ○ 2-in Underground Conduit                       |
| N/A  | ○ Right of Way                                   |
| ○ Directional Arrow                              | ○ Directional Arrow                              |
| ○ Left Arrow "ONLY" Sign (R3-5L)                 | ○ Left Arrow "ONLY" Sign (R3-5L)                 |
| ○ Right Arrow "ONLY" Sign (R3-5R)                | ○ Right Arrow "ONLY" Sign (R3-5R)                |

Signal Revision

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Revision Seal

Prepared for:

US 701 (James B. White Highway) at SR 1429 (Slippery Log Road)  
 Division 6 Columbus County Whiteville  
 PLAN DATE: November 2012 REVIEWED BY: PLA  
 PREPARED BY: Jeff Spence REVIEWED BY:  
 REVISIONS: Controller changed to ASC/3  
 INIT. DATE: GJM 05/14/20

SEAL  
 Not a certified document. This document originally issued and sealed by Pamela L. Alexander, P.E. no. 23489 on (2/22/13). This document shall not be considered a certified document.  
 SIGNATURE DATE  
 SIG. INVENTORY NO. 06-0951

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