

PHASING DIAGRAM

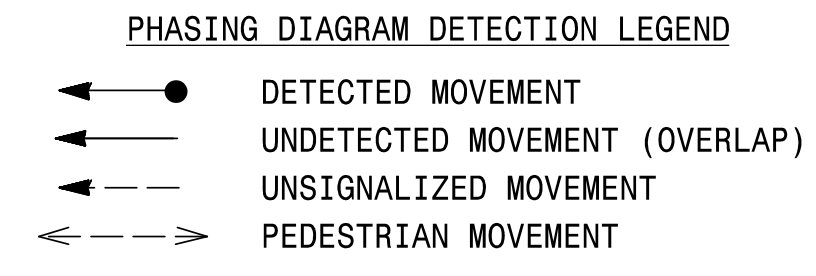
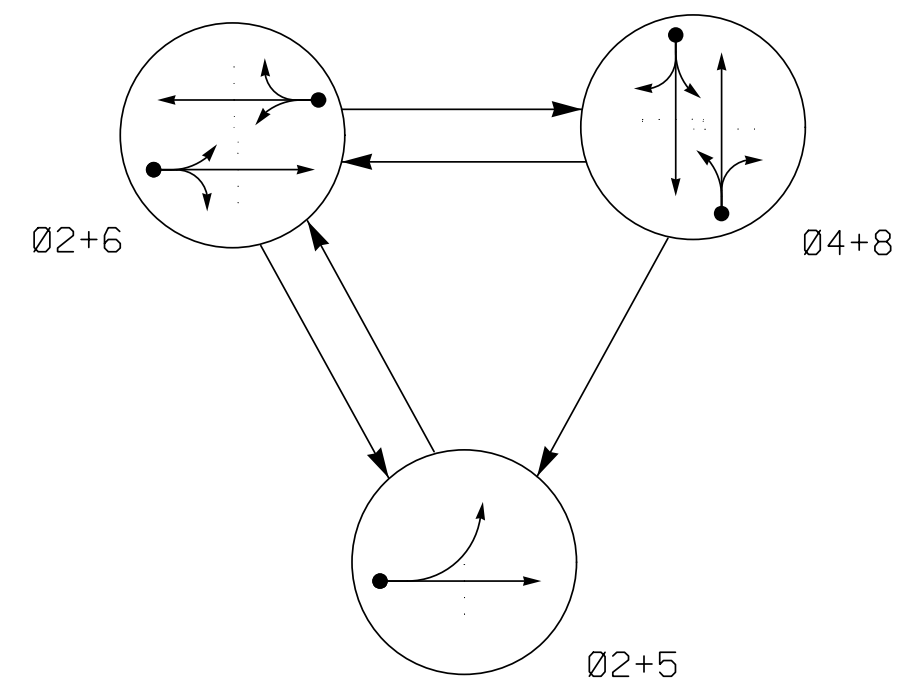
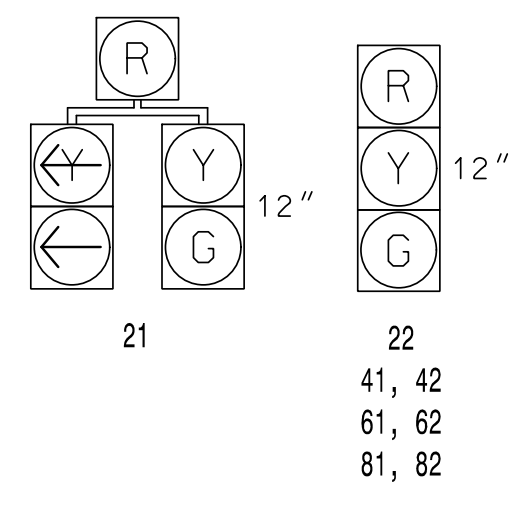


TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | |
|-------------|-------|------|------|-------|
| | 02+5 | 02+6 | 04+8 | FLASH |
| 21 | G | G | R | Y |
| 22 | G | G | R | Y |
| 41, 42 | R | R | G | R |
| 61, 62 | R | G | R | Y |
| 81, 82 | R | R | G | R |

SIGNAL FACE I.D.

All Heads L.E.D.



ASC/3 DETECTOR INSTALLATION CHART

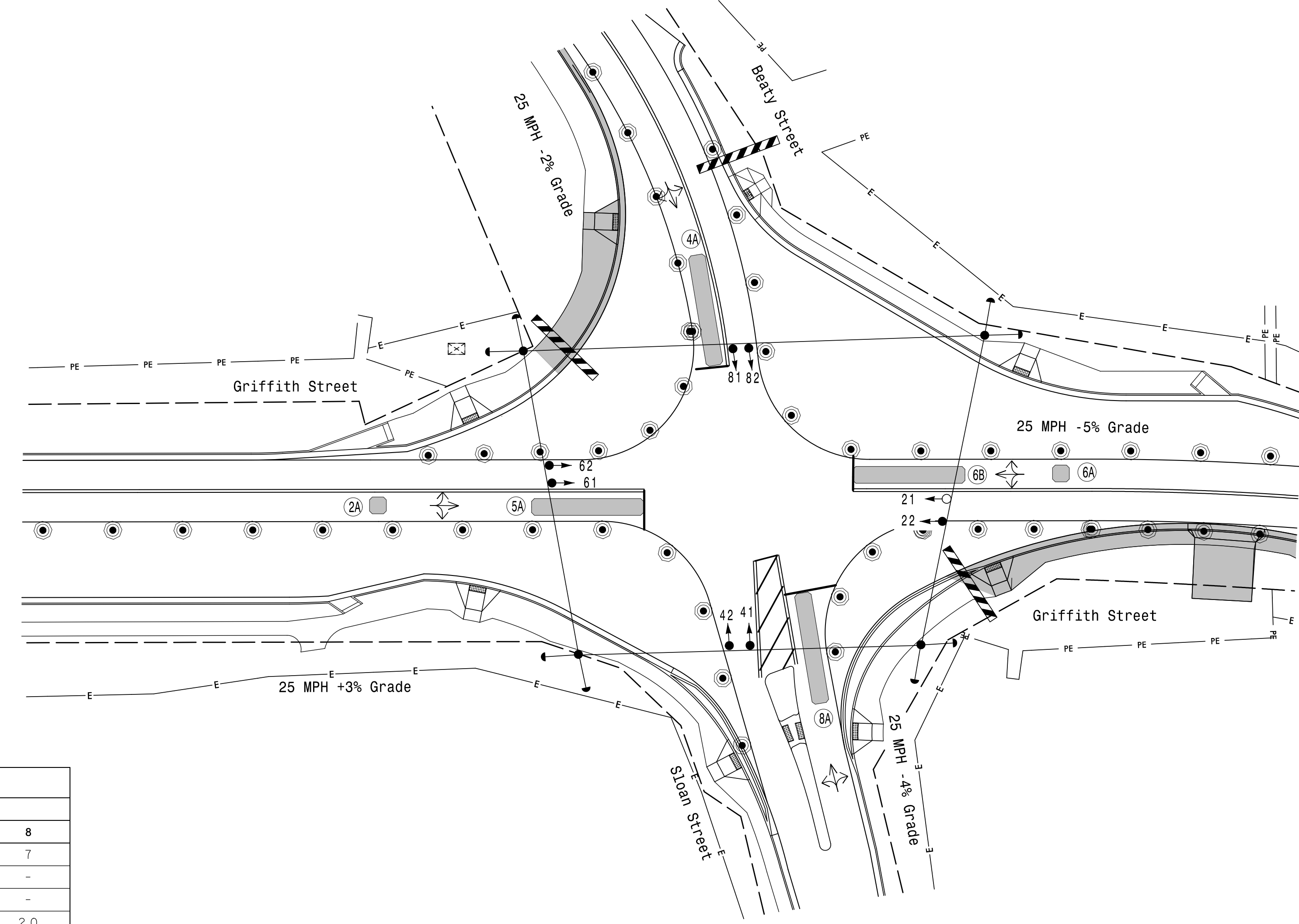
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PROGRAMMING | | | | | | |
|------|-----------|----------------------------|-------|----------|-------------|---------|-------------|------------|-------------------|------|-------------|
| | | | | | PHASE | CALLING | EXTEND TIME | DELAY TIME | USE ADDED INITIAL | TYPE | SYSTEM LOOP |
| 2A | 6X6 | 70 | * | X | 2 | Yes | - | - | - | N | - |
| 4A | 6X40 | 0 | * | X | 4 | Yes | - | 10 | - | N | - |
| 5A | 6X40 | 0 | * | X | 5 | Yes | - | 10 | - | N | - |
| 6A | 6X6 | 70 | * | X | 2 | Yes | 2 | 5 | - | G | - |
| 6B | 6X40 | 0 | * | X | 6 | Yes | - | - | - | N | - |
| 8A | 6X40 | 0 | * | X | 6 | Yes | 2 | 5 | - | G | - |
| 8A | 6X40 | 0 | * | X | 8 | Yes | - | - | - | N | - |

* Video Detection Zone

3 Phase Fully Actuated (Isolated)

NOTES

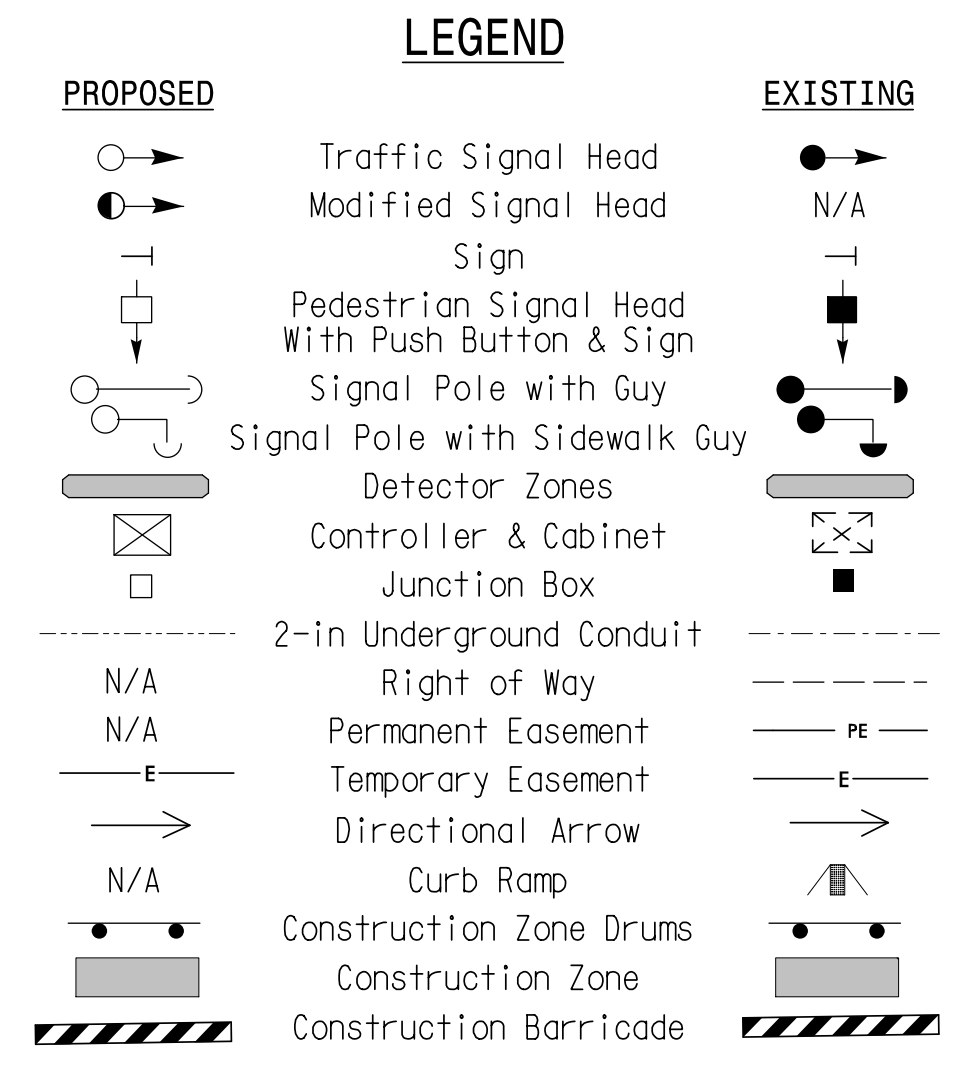
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Omit phase 5 during phase 6 on.
- Enable Backup Protect for phase 2 to allow the controller to clear from phase 2+6 to phase 2+5 by progressing through an all red display.
- Reposition existing signal heads 81 and 82.
- Set all detector units to presence mode.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- See Roadway Traffic Control Plans for proposed stopline and crosswalk locations.



ASC/3 TIMING CHART

| FEATURE | PHASE | | | | |
|-------------------------|-------------|-----|-----|-------------|-----|
| | 2 | 4 | 5 | 6 | 8 |
| Min Green * | 10 | 7 | 7 | 10 | 7 |
| Walk * | - | - | - | - | - |
| Ped Clear | - | - | - | - | - |
| Veh. Extension * | 3.0 | 2.0 | 2.0 | 3.0 | 2.0 |
| Max 1 * | 45 | 20 | 20 | 45 | 20 |
| Yellow | 3.1 | 3.3 | 3.0 | 3.5 | 3.4 |
| Red Clear | 1.5 | 1.6 | 1.4 | 1.5 | 1.5 |
| Red Revert | 5.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Actuations B4 Add * | - | - | - | - | - |
| Seconds / Actuation * | - | - | - | - | - |
| Max Initial * | - | - | - | - | - |
| Time Before Reduction * | - | - | - | - | - |
| Time To Reduce * | - | - | - | - | - |
| Minimum Gap | - | - | - | - | - |
| Locking Detector | X | - | - | X | - |
| Recall Position | VEH. RECALL | - | - | VEH. RECALL | - |
| Dual Entry | - | X | - | - | X |
| Simultaneous Gap | 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 - Temporary Design 3 (TMP Phase 3C)

| | | | |
|---|---|---|---|
| Prepared For: The Town of Davidson College Street, Lake Street, Bear Lane. | Griffith Street at Sloan Street/Beaty Street | | DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED KEVIN P. BAUMANN ENGINEER |
| | Division 10 Mecklenburg Davidson | PLAN DATE: July 2023 | |
| PREPARED BY: SP Pennington | REVIEWED BY: | REVISIONS: | INIT. DATE |
| NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 (919) 677-2000 | SCALE: 0 30 1" = 30' | DocuSigned by: KEVIN P. BAUMANN SIGNATURE | DATE: 9/19/2023 |

9/19/2023 9:16:58 AM susan.pennington K:\RAL\TPTD\SIGNALS\401036360.U-5907 Port+Sloan EXRMS4 - Signal Design\4.0 DAVI-1-2023g-T3.dgn