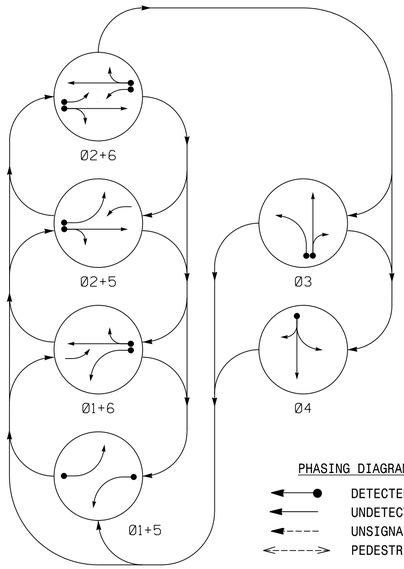
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2577A | Sig. 36.0 |

# 6 Phase Fully Actuated (Isolated)

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. The order of phase 3 and 4 may be reversed.
5. Remove louvers from heads 23, 24, and 51.
6. Set all detector units to presence mode.
7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. Remove signal heads 11,21,22,31,32,63, and 64 and the corresponding span wires.

## PHASING DIAGRAM




PHASING DIAGRAM DETECTION LEGEND

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

## TABLE OF OPERATION

| SIGNAL FACE | PHASE 01+5 | 01+6 | 02+5 | 02+6 | 03 | 04 | FLASH |
|---|---|---|---|---|---|---|---|
| 11 | ← | ← | F Y | F Y | R | R | Y |
| 23,24 | R | R | G | G | R | R | Y |
| 31 | R | R | R | R | G ← | R | R |
| 32 | R | R | R | R | G | R | R |
| 41 | R | R | R | R | R | G ← | R |
| 42,43 | R | R | R | R | R | G | R |
| 51 | ← | F Y | ← | F Y | R | R | Y |
| 61,62 | R | G | R | G | R | R | Y |

## SIGNAL FACE I.D.

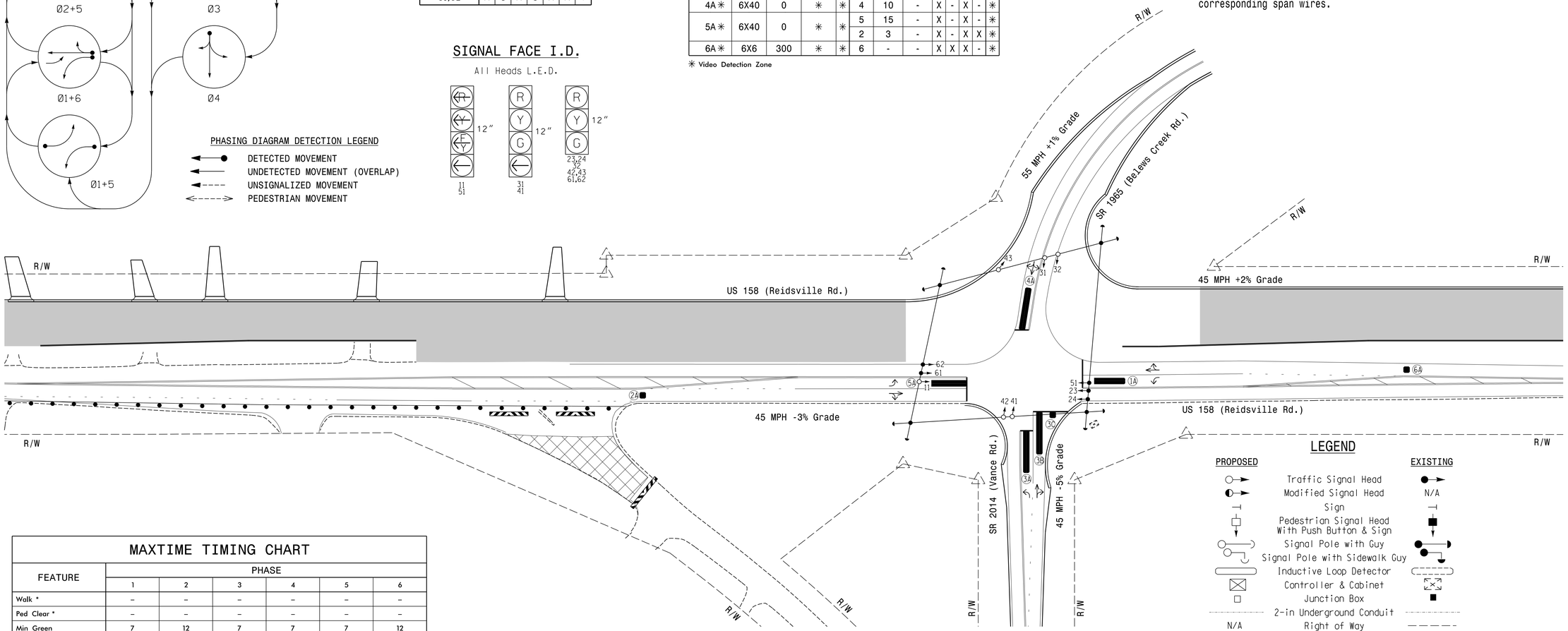
All Heads L.E.D.




## MAXTIME DETECTOR INSTALLATION CHART

| DETECTOR | | | | | PROGRAMMING | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZONE | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN | NEW CARD |
| 1A ✳ | 6X40 | 0 | ✳ | ✳ | 1 | 15 | - | X | - | X | - | ✳ |
| | | | | | 6 | 3 | - | X | - | X | X | ✳ |
| 2A ✳ | 6X6 | 300 | ✳ | ✳ | 2 | - | - | X | X | X | - | ✳ |
| 3A ✳ | 6X40 | 0 | ✳ | ✳ | 3 | 3 | - | X | - | X | - | ✳ |
| 3B ✳ | 6X40 | 0 | ✳ | ✳ | 3 | 10 | - | X | - | X | - | ✳ |
| 3C ✳ | 6X6 | 0 | ✳ | ✳ | 3 | 10 | - | X | - | X | - | ✳ |
| 4A ✳ | 6X40 | 0 | ✳ | ✳ | 4 | 10 | - | X | - | X | - | ✳ |
| 5A ✳ | 6X40 | 0 | ✳ | ✳ | 5 | 15 | - | X | - | X | - | ✳ |
| | | | | | 2 | 3 | - | X | - | X | X | ✳ |
| 6A ✳ | 6X6 | 300 | ✳ | ✳ | 6 | - | - | X | X | X | - | ✳ |

✳ Video Detection Zone




## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| | Traffic Signal Head | |
| | Modified Signal Head | N/A |
| | Sign | |
| | Pedestrian Signal Head With Push Button & Sign | |
| | Signal Pole with Guy | |
| | Signal Pole with Sidewalk Guy | |
| | Inductive Loop Detector | |
| | Controller & Cabinet | |
| | Junction Box | |
| | 2-in Underground Conduit | |
| N/A | Right of Way | |
| | Directional Arrow | |
| | Construction Zone Drums | |
| | Construction Zone | |
| | Video Detection Zone | |
| | Barricade | |

## MAXTIME TIMING CHART

| FEATURE | PHASE 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Walk * | – | – | – | – | – | – |
| Ped Clear * | – | – | – | – | – | – |
| Min Green | 7 | 12 | 7 | 7 | 7 | 12 |
| Passage * | 2.0 | 6.0 | 2.0 | 2.0 | 2.0 | 6.0 |
| Max 1 * | 20 | 90 | 30 | 30 | 20 | 90 |
| Yellow Change | 3.0 | 4.8 | 5.0 | 5.1 | 3.0 | 4.8 |
| Red Clear | 2.3 | 1.5 | 1.0 | 1.0 | 2.1 | 1.5 |
| Added Initial * | – | 2.5 | – | – | – | 2.5 |
| Maximum Initial * | – | 34 | – | – | – | 34 |
| Time Before Reduction * | – | 15 | – | – | – | 15 |
| Time To Reduce * | – | 30 | – | – | – | 30 |
| Minimum Gap | – | 3.0 | – | – | – | 3.0 |
| Advance Walk | – | – | – | – | – | – |
| Non Lock Detector | X | – | X | X | X | – |
| Vehicle Recall | – | MIN RECALL | – | – | – | MIN RECALL |
| Dual Entry | – | – | – | – | – | – |

* 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 I Step 3)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED


RK&K
P: (919) 878-9560
8601 Six Forks Road Suite 700 | Raleigh, North Carolina 27615-2965
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Prepared for the Offices of: Transportation Mobility and Safety Division, Traffic Engineering Branch, Signal Design Section, State of North Carolina Department of Transportation
750 N.Greenfield Pkwy,Garner,NC 27529

# US 158 (Reidsville Rd.) at SR 2014 (Vance Rd.) / SR 1965 (Belews Creek Rd.)

Division 9 Forsyth County Walkertown

| | | | |
|---|---|---|---|
| PLAN DATE: | February 2024 | REVIEWED BY: | WP Erickson-Jones |
| PREPARED BY: | H Townsend | REVIEWED BY: | |

SCALE 0 50 1" = 50'

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 056142 ENGINEER W. PORTER JONES

DocuSigned by: Porter Jones DOEF13F3A0E04DB... SIGNATURE 2/12/2024 DATE

SIG. INVENTORY NO. 09-110OT3

2/12/2024
R:\Traffic\Signals\Designs\Signals\09110OT3_Sig_dsn_XXXXXXXX.dgn
WPJones