

INTERSECTION FIELD INSPECTION FORM

LOCATION INFORMATION

Intersection Identification: _____ with _____

Approach Name: _____

Direction Heading: _____

PART 1. CHECK SIGNAL VISIBILITY

Type of Signal Mounting: **Span Wire** **Mast Arm** **Pole** **Structure** Sight Distance to the Signal: _____ feet

Requires Advance Warning Sign? **Y** **N** Advance Signal Warning Sign Present: **Y** **N**

Is anything blocking the view of the signals? **Y** **N** If yes, describe _____

Can signal faces on other approaches be seen? **Y** **N** If yes, do these signals have visors, shields, or programmable lenses? **Y** **N**

PART 2. CHECK SIGNAL CONSPICUITY

Could visual clutter detract from the signal? **Y** **N**

Are the signal indications confusing? **Y** **N**

If yes, explain: _____

Are backplates present? **Y** **N**

Are backplates necessary? **Y** **N**

Are other glare-reducing steps needed? **Y** **N**

Signal lens type: **Incandescent** **LEDs**

Signal Lens Size Adequate?:

Red signal lens size: 8 inch 12 inch

Distance from stop line to signal: _____ feet

Near side signal? **Y** **N**

Is existing size adequate? **Y** **N**

Number of Signal Heads Adequate?

Total number of signal heads for major movement: _____

Total number of lanes for major movement: _____

Is existing number adequate? **Y** **N**

Signal Heads Placement Adequate? **Y** **N**

PART 3. CHECK SIGNAL CONTROL PARAMETERS

Grade (as decimal) $g =$ _____ (uphill is positive)

Approach speed $V =$ _____ mph

Cross street width $W =$ _____ feet

Calculate the needed change period (CP) for this approach using agency practice or the following equation:

$$CP = 1.0 + \frac{\overbrace{1.47 * V}^{\text{Yellow}}}{(20 + 64.4g)} + \frac{\overbrace{W + 20}^{\text{All-red}}}{1.47 * V}$$

| | Actual Value | Calculated Value | Is Existing Adequate? | |
|------------------|--------------|------------------|-----------------------|----------|
| Yellow Interval | _____ | _____ | Y | N |
| All Red Interval | _____ | _____ | Y | N |

PART 4. CHECK OTHER FACTORS

Is horizontal location adequate? **Y** **N** Pavement condition on approach: **Adequate** **Polished** **Severely Rutted**

Should signal warranting study be conducted? **Y** **N** Other concerns: _____

PART 5. IDENTIFY PROMISING COUNTERMEASURES

Visibility Deficiency

Conspicuity Deficiency

Signal Timing Operation Deficiency

- _____ Install additional signals on near side
- _____ Change signal mounting
- _____ Install SIGNAL AHEAD sign
- _____ Install Advance Warning Flashers
- _____ Remove/relocate sight obstruction
- _____ Install programmable lenses
- _____ Install shields and visors
- _____ Other _____

- _____ Add signals to achieve one per lane
- _____ Replace with LED lens type
- _____ Replace with 12" signal head
- _____ Install double red signal
- _____ Install/enhance backplates
- _____ Install rumble strips on approach
- _____ Install near side signal

- _____ Change yellow interval
- _____ Add/change all-red interval

Other Measures

- _____ Determine if signal is warranted
- _____ Consider roundabout or innovative design
- _____ Improve pavement condition

Inspection By: _____

Date: _____