

Traffic Signal Checklist

—Project Information—

Instructions: The Contractor is required to complete this checklist through the Contractor Inspection Certification section prior to requesting the final inspection by the City Traffic Shop.

| | |
|---|--|
| Project: | Engineering Consultant (Project Inspector and Company): |
| Bid Request and CIP Number: | Inspector's Email Address (To be filled in by the Inspector): |
| Electrical Contractor and Foreman: | City Project Manager: |

—Phase/Location of Items Covered by this Checklist—

Check one

☐ Entire project area.

☐ Specific phase or location on project. If this box is checked, describe in detail the phase or location:

Describe specific items that are excluded from this inspection request. (For example, battery backup not installed because it has not arrived or pedestrian push-button pole not installed because sidewalk installation is not complete):

—Checklist—

Instructions: The Contractor is required to check off on all the items below to expedite the final inspection performed by the City Traffic Shop. If it becomes apparent during the final inspection that the Contractor did not verify these items, the Traffic Shop will cease the inspection and require the Contractor to submit a new request.

Controller Cabinet

Y N/A

- | | | |
|----------------------------|------------------------------|--|
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for sealant between footing and cabinet shell |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for loose anchor bolt nuts |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for bushings on all conduits |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check grounding |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check wire terminations |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for labeling on cables |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for neatness of wiring |

Junction Boxes

- | | | |
|----------------------------|------------------------------|---|
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for installation at grade level |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for adequate crushed rock in and below JB |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check grounding |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for bushings on all conduits |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check conduit height |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check loop splices |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check condition of cables |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for sealant between JB wall and conduit |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for waterproof sealant on the ends of innerduct |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check lids for correct markings—labeled Traffic and not Electrical |

Signal Poles

- | | | |
|----------------------------|------------------------------|---|
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for loose anchor bolt nuts |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for bushings on all conduits |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check grounding |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check wire connections |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check pole and arm-mounting hardware |

Signal Poles continued

Y N/A

- | | | |
|----------------------------|------------------------------|---|
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check height, aiming, and straightness of signal heads |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check signal head bracketing hardware for loose bolts |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check wire terminations in signal heads |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for caps and access covers |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for locking pins |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check signal back plates for screws and washers |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for signal cable strain relief |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check plumb and level of pole and mast arm |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for grout and drain tube under T-Base |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check EVP detector assembly for plumb and solid mounting* |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check pedestrian push buttons and signs for correct indication arrows and proper mounting height |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for height of footing from finished grade |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for height and location of conduits and anchor bolts |

Operation

- | | | |
|----------------------------|------------------------------|--|
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check all signal indications (Do all red, yellow, and green lights work, including turn arrows) |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check for conflicting indications |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check all pedestrian push buttons for activation of correct phase |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check all vehicle detection for activation of correct phase |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check Emergency Vehicle Preemption for proper activation* |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check battery back-up system for proper operation* |
| <input type="checkbox"/> Y | <input type="checkbox"/> N/A | Check video detection equipment for proper operation* |

* If equipment is installed

—Contractor Inspection Certification—

Instructions: Upon certifying this document, the Contractor shall present this checklist to the Engineer who will coordinate the final inspection with the City Traffic Shop. It is recommended, but not required, for the Contractor to attend this final inspection and the Contractor should indicate to the Engineer if they desire to attend this inspection.

I certify that employees of this company have verified that all the items listed, other than those specifically excluded, have been installed according to the specifications. I am now requesting the City of Sioux Falls or its representatives to perform a final inspection as required by the specifications.

The signature line below shall be filled out by the Contractor:

Print Name

Representing

Signature

Date

—Punch list items identified by the Traffic Shop to be corrected by the Contractor—

Instructions: Upon receipt of this checklist from the Contractor, the Engineer will coordinate the final inspection with the City Traffic Shop (Ryan Campbell 605-367-6964 or 605-366-5743). The Engineer should submit a copy of this form (preferably in PDF format emailed to RCampbell2@siouxfalls.gov) and a copy of the traffic signal plans to the City Traffic Shop. The Engineer shall attend, or at least be on the jobsite, during the final inspection with City Traffic Shop personnel. Traffic Shop personnel shall note any punch list items below or furnish a separate sheet detailing the punch list. They will email the punch list to the project manager and to the inspectors email address listed above. The Engineer shall notify the Contractor of any punch list items to be completed.

Punch list items (Check one of these two boxes):

- ☐ Final grading, seeding, or sodding not completed. Junction boxes must be verified for proper adjustment after final grading is complete.
- ☐ Junction boxes are correctly adjusted to the final grade and the sodding and seeding has been completed.

Other punch list items:

- ☐ See attached sheet for listing of punch list items.
- ☐ All punch list items are listed below.
- ☐ There are no punch list items. Documentation from Traffic Shop is attached.

—Engineer Verification of Punch List Items—

Instructions: It will be the responsibility of the Engineer to notify the City Traffic shop when the punch list items have been completed. The City Traffic Shop will determine if another follow-up inspection is necessary. When it is determined all punch list items have been completed, the Engineer shall sign the area below and submit copies (preferably emailed in PDF format) of this form to the Project Manager, City Traffic Engineer, and to the City Traffic Shop. A copy of the Traffic Shop's original punch list and other relevant documentation should also be attached.

Comments:

- ☐ *I certify that employees of this company have verified that all the punch list items identified above have been corrected to the satisfaction of the City Traffic Shop.*

The signature line below shall be filled out by the Engineer:

Print Name

Representing

Signature

Date

Copies in PDF format to: Project Manager
City Traffic Engineer (HHoftiezer@siouxfalls.gov)
City Traffic Shop (RCampbell2@siouxfalls.gov)