PDN Stage 2 - Roadway QA Checklist

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| --- | --- |
| **SPOT ID/Project TIP #:** | Click or tap to edit. |
| **County:** | Click or tap to edit. |

2RD1 Alignment Defined

| **Item #** | **Review Item** | **Acceptable** | **Unacceptable** | **N/A** |
| --- | --- | --- | --- | --- |
|  | **Initial Lighting Assessment** |  |  |  |
|  | Is a lighting evaluation warranted for new facilities? |  |  |  |
|  | Is there existing lighting at an existing facility that requires reconfiguration or replacement? |  |  |  |
|  | **Lighting Evaluation Report** |  |  |  |
|  | Are all applicable sections of the project included in the evaluation? |  |  |  |
|  | Are all applicable Tables included in the evaluation? |  |  |  |
|  | Are the Charts A-D included in the evaluation? |  |  |  |
|  | Has the Lighting Evaluation Report describing the results of the evaluation been prepared? |  |  |  |
|  | Has a memo addressed to the State Roadway Design Engineer been developed? |  |  |  |
|  | Has the signed memo and Lighting Evaluation with report been electronically distributed to all members of the Lighting Committee? |  |  |  |

*For items marked* ***Unacceptable****, provide comments or action items in the table below.*

| **Item #** | **Comments and Action Items** |
| --- | --- |
| Click to edit. | Click to edit. |

|  |  |  |  |
| --- | --- | --- | --- |
| ***This checklist may not be comprehensive to every project. It is the responsibility of the reviewer to ensure that an adequate review is performed.*** | | | |
| **QA Reviewer Name:** | | Click to edit. | **Date:** | Click to edit. | |
| **QA Reviewer (Signature):** | |  |  |  | |

PDN Stage 3 - Roadway QA Checklist

|  |  |
| --- | --- |
| **SPOT ID/Project TIP #:** | Click or tap to edit. |
| **County:** | Click or tap to edit. |

3RD1 Complete Roadway Design

| **Item #** | **Review Item** | **Acceptable** | **Unacceptable** | **N/A** |
| --- | --- | --- | --- | --- |
|  | **Lighting and Electrical** |  |  |  |
|  | Lighting Photometric Layout |  |  |  |
|  | Were all calculations on the roadway surfaces performed using photometric software? |  |  |  |
|  | Has a cursory review of the photometric calculations been completed to ensure the calculations meet the minimum foot-candle and uniformity requirements? |  |  |  |
|  | Are all poles are located at proper minimum offsets? |  |  |  |
|  | Has the use of high mast poles been maximized to the greatest extent possible to minimize future maintenance and reduce roadside obstacles? |  |  |  |
|  | Does the QC checklist confirm whether the Engineer of Record has complied with NCGS § 133-3 and NCDOT policy number F.25.0101 or indicates that these requirements are not applicable? |  |  |  |
|  | Is underpass lighting required? |  |  |  |
|  | Lighting Plan Preparation |  |  |  |
|  | Has a cursory review of the pole locations shown in the plans been performed to confirm the poles are in the same locations as what is shown in the photometric calculation? |  |  |  |
|  | Are all poles labeled and stationed and an offset, when required, provided? |  |  |  |
|  | Is the Lighting Control Panel located near the top of a ramp in a relatively flat area that is easily accessible? |  |  |  |
|  | Is the Lighting Control Panel properly labeled with stations and offsets provided? |  |  |  |
|  | Are the proper number of circuits used for each Lighting Control Panel? |  |  |  |
|  | Are all junction boxes located, spaced, and sized in accordance with Lighting Standard Operating Procedures? |  |  |  |
|  | Is the circuitry that crosses under the road shown in a protective sleeve? |  |  |  |
|  | Is a raceway proposed where multiple circuits cross under the road in the same electrical duct? |  |  |  |
|  | Has a cursory review been performed to verify all circuits are sized to achieve a maximum 3% end to end voltage drop? |  |  |  |
|  | Do the circuity runs include the correct circuit label and size? |  |  |  |
|  | Is the E1 Sheet complete showing the appropriate type of work and design data? |  |  |  |
|  | Have the appropriate summaries each lighting control panel been completed on E1x Sheets? |  |  |  |
|  | Are the E2-Ex Sheets complete with matchlines included where needed? |  |  |  |
|  | Are all required special detail sheet(s) included? |  |  |  |
|  | Lighting Special Provisions |  |  |  |
|  | Are all special provisions included for all non-standard lighting pay items? |  |  |  |
|  | For Division let project or Purchase Order Contract, are Standard Provisions SP09R005 (Foundations and Anchor Rod Assemblies for Metal Poles) and SP14R004 (Roadway Lighting Foundations) included? |  |  |  |
|  | Lighting Calculation of Quantities |  |  |  |
|  | Do all lighting pay items reference the correct pay item number? |  |  |  |
|  | Do the calculation of quantities match the information entered in the Pay Items & Quantities (PIQ) tool? |  |  |  |
|  | Has the Lighting & Electrical Team Lead provided pay item pricing to Estimating Group? |  |  |  |

*For items marked* ***Unacceptable****, provide comments or action items in the table below.*

| **Item #** | **Comments and Action Items** |
| --- | --- |
| Click to edit. | Click to edit. |

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| --- | --- | --- | --- |
| ***This checklist may not be comprehensive to every project. It is the responsibility of the reviewer to ensure that an adequate review is performed.*** | | | |
| **QA Reviewer Name:** | | Click to edit. | **Date:** | Click to edit. | |
| **QA Reviewer (Signature):** | |  |  |  | |