PDN Stage 3 – Roadway Design QC Checklist

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

3RD1 Complete Roadway Design

| **Item #** | **Review Item** | **Yes** | **No** | **N/A** |
| --- | --- | --- | --- | --- |
|  | **Right of Way Acquisition Plan Set** |  |  |  |
|  | General |  |  |  |
|  | Verify checklist items for the “Recommendation Plan Set” and “Field Inspection Plan Set” were reviewed and confirmed for any design changes or additions that have been developed after those plans were distributed. |  |  |  |
|  | Verify a consistency review between the roadway design plans and the permit drawings has been completed. |  |  |  |
|  | Title Sheet |  |  |  |
|  | A label is shown to identify the submittal (i.e. Right of Way Acquisition Plan Set). |  |  |  |
|  | Contract number is shown on left end of sheet if the project is on the Tentative Letting List. |  |  |  |
|  | Once plans have been reviewed and comments addressed, verify the right of way date is revised to reflect the date submitted to Right of Way Branch. |  |  |  |
|  | Typicals |  |  |  |
|  | Verify the typical sections have been revised in accordance with field inspection letter from Division and/or updated correspondence from the pavement design engineer. |  |  |  |
|  | Verify pavement designs for temporary traffic patterns has been incorporated. |  |  |  |
|  | Verify proposed noise wall locations in the design noise report are shown with appropriate dimensions. |  |  |  |
|  | Horizontal Design |  |  |  |
|  | Verify proposed noise wall locations in the design noise report have been incorporated. |  |  |  |
|  | Verify the appropriate horizontal clearances to proposed noise walls located in fill sections. |  |  |  |
|  | 3D Model/Cross Sections |  |  |  |
|  | Verify the proposed noise wall locations in the design noise report have been incorporated into the 3D model and cross sections |  |  |  |
|  | Verify any drainage features associated with proposed noise wall locations have been incorporated into the 3D model and cross sections. |  |  |  |
|  | Detail Sheets |  |  |  |
|  | Verify noise wall envelopes for proposed noise wall locations in the design noise report are included, if applicable. |  |  |  |
|  | Verify a parcel index sheet is provided, if applicable. |  |  |  |
|  | Plan Sheets |  |  |  |
|  | Verify comments from the field inspection that were coordinated with other technical disciplines and Division have been addressed and incorporated into the plan sheets. |  |  |  |
|  | Verify any additional right of way required to accommodate noise abatement measures have been investigated and incorporated into the plans. |  |  |  |
|  | Verify additional right of way required due to onsite mitigation of geoenvironmental sites has been incorporated into the plans. |  |  |  |
|  | All areas that are to remain undisturbed within the right of way are clearly marked. |  |  |  |
|  | Cross reference notes to plans or details from other disciplines are shown, if applicable (i.e. structures, geotechnical, traffic management, etc.). |  |  |  |
|  | Stockpile locations within the project limits are shown. |  |  |  |
|  | Profile Sheets |  |  |  |
|  | Verify comments from the field inspection that were coordinated with other technical disciplines and Division have been addressed and incorporated into the profile sheets. |  |  |  |
|  | Cross Section Sheets |  |  |  |
|  | Verify comments from the field inspection that were coordinated with other technical disciplines and Division have been addressed and incorporated into the cross section sheets. |  |  |  |
|  | Calculation of Quantities |  |  |  |
|  | Verify quantities have been updated based on the field inspection questions, design changes, and/or additional recommendations provided after the field inspection. |  |  |  |
|  | Verify quantities developed in accordance with the Roadway Design Manual, NCDOT Standards and Specifications, or other current guidance |  |  |  |
|  | Verify quantities have undergone and independent check for accuracy |  |  |  |
|  | Verify all the appropriate quantities have been included in the estimate form and match the calculated totals. |  |  |  |
|  | Summary Sheets |  |  |  |
|  | Update summaries that were provided in the “Field Inspection Plan Set”, as needed. |  |  |  |
|  | Summary of drainage is provided. |  |  |  |
|  | Before Right of Way Acquisition Plans are Sent |  |  |  |
|  | Verify the right of way date on the title sheet reflects the date the plans are distributed. |  |  |  |
|  | Verify the Engineer of Record has complied with NCGS § 133-3 and NCDOT policy number F.25.0101 regarding the use of proprietary products. |  |  |  |
|  | Remove "Do not use for right of way acquisition" note from all sheets. |  |  |  |
|  |  |  |  |  |

*For items marked* ***No*** *that require further explanation, 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.*** | | | |
| **QC Reviewer Name:** | | Click to edit. | **Date:** | Click to edit. | |
| **QC Reviewer (Signature):** | |  |  |  | |