

# PDN Stage 4 – Contract Standards Checklist

SPOT ID/Project TIP #: R-5863

County: CLAY

## 4CS1 Complete PS&E Package: Review List for Final Construction Plans

| Item #               | Review Item  | Yes                                 | No                       | N/A                                 |
|----------------------|--|-------------------------------------|--------------------------|-------------------------------------|
| <b>General Items</b> |  |                                     |                          |                                     |
| 1                    | Ensure document sets for correspondence and roadway supporting documents are created on SharePoint according to the PS&E checklist for projects  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2                    | Create a combined PDF copy of all quantity sheets in the same order as the master pay item list. The first page should be the calculation of quantities cover sheet  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3                    | Include the note "Structures Pay Item" for items on the Roadway plans covered by Structures.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4                    | Remove "PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION" labels from Final Plans sheets  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5                    | The "Document not considered final unless all signatures completed" sticker should appear on the plans sheets to be sealed and design files containing information used to generate them   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6                    | Approved Design Exception package is provided, if applicable   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7                    | Right of Way revision notes removed from the plans   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 8                    | TIP number is shown on all sheets  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9                    | Plan sheet numbers for plans from all disciplines are included in the index of sheets for sheet 1A   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10                   | If the sheet numbers have changed for any parcel since the plans were sent for Right of Way acquisition, verify the R/W sheet number appears in the title block  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11                   | Complete and submit signed checklist for coordination of roadway and structure plans   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12                   | Place image of professional engineer seal with Engineer's name and license number. Multiple seals may be required on a single sheet. Electronic signatures may be applied but are not required at the initial turn in to Plans and Standards Management for plan review  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13                   | Verify Pavement Management has reviewed plans for shoulder drain locations   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 14                   | If submitting printed plans, submit 34" X 22" cross section sheets if 30 sheets or less. Submit 17" X 11" cross section sheets if 31 sheets or more.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 15                   | Ensure all individual pdf sheets are scaled 34" Wide X 22" High except as noted for cross sections above   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 16                   | Ensure plans include any environmental commitments   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 17                   | Project documentation contains correspondence from Division Right of Way related to NCDOT Standard Specifications sections 210 or 215  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 18                   | Include a parcel index sheet for projects with 2 or more plan sheets starting with sheet number 3P-1   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 19                   | Include bridge foundation recommendations in the Correspondence Docu-set on SharePoint   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 21                   | Ensure the required roadway supporting documentation from the PS&E checklist is provided. Refer to the Roadway Design Manual Part II, Section 13.10 for further guidance   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 22                   | At the time final plans are submitted to r, ensure a PDF of the AWP or PIQ estimate is uploaded on SharePoint following PS&E checklist guidance  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| 23                   | Verify Geotechnical standard drawings and provisions provided are current.<br>For Standard Drawings, compare drawing date to effective Let date shown here:<br><a href="https://connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx">https://connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx</a><br>For Standard Provisions, compare provision date to effective Let date shown here:<br><a href="https://connect.ncdot.gov/resources/Geological/Pages/Geotech_Provisions_Notes.aspx">https://connect.ncdot.gov/resources/Geological/Pages/Geotech_Provisions_Notes.aspx</a> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

| Item # | Review Item  | Yes                                 | No                       | N/A                                 |
|--------|--|-------------------------------------|--------------------------|-------------------------------------|
| 24     | Verify the Geotechnical Summary Tables produced and approved by Geotechnical Engineering match the recommendation letters    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 25     | Send a PDF of your plans to the Pavement Management and Hydraulic Engineer of Record for review prior to sealing their plans | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|        | <b>Title Sheet</b>   |                                     |                          |                                     |
| 1      | Location of Project is complete and accurate   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2      | County is shown  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3      | Type of work includes all items shown on current tentative letting list  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4      | Graphic scales are shown and accurate for plan and profile sheets  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5      | Design data is shown   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6      | Control of access note shown (full or partial)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7      | Approved Design Exception note shown, if applicable  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8      | Vicinity map includes the following:   |                                     |                          |                                     |
| A      | City name and municipal limits; County names and limits  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| B      | Interstate, US and State Routes  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| C      | North arrow  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| D      | Beginning and end of project or project location, as appropriate   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| E      | Title block  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| F      | Offsite detours with legend as needed.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9      | Project layout on numbered superimposed sheets includes the following:   |                                     |                          |                                     |
| A      | Project alignment for all proposed construction (-L- lines, -Y- lines, service roads, detours, etc.)                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| B      | Existing roads and streets affected by construction but not a part of the project  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| C      | Route numbers, survey line numbers, street names, etc.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| D      | Symbols for proposed bridges and culverts 20' and over with beginning and ending stations                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| E      | Streams and rivers   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| F      | Railroads  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| G      | City limits  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| H      | State and County limits  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| I      | Beginning and ending stations for each project   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| J      | Begin and end construction outside project limits. Not needed for y-lines  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| K      | Destination points at beginning and ending of project  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| L      | North arrow  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10     | Project number includes the following:   |                                     |                          |                                     |
| A      | Project contract number and TIP number on sheet  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| B      | P.E., R/W, Utility, and Construction F.A. project numbers in project identification block, if federally funded               | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C      | P.E., R/W, Utility, and Construction WBS elements in project identification block  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11     | Length of project information correct showing Roadway, Structure, and Total Project lengths                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 12     | NCDOT Project Manager's name and Firm/NCDOT Engineer of Record's name are shown  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13     | Design firm's official name and License number is shown on each sheet where a seal is required                               | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 14     | Month, day, and year of R/W and Letting shown  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 15     | Areas not part of project noted  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16     | Remove clearing method note  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

|    |   |                                     |                          |                                     |
|----|---|-------------------------------------|--------------------------|-------------------------------------|
|    | Index of Sheets, General Notes, and List of Standards (1A Sheet)  |                                     |                          |                                     |
| 1  | Submit completed 1A Excel spreadsheet with boxes checked under the General Notes and List of Standard Drawings tabs upon first submittal to plan review. An index of sheets can be completed in the Excel file template or submitted as a separate document | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | After initial review, submit a completed 1A sheet including information from the corrected Index of Sheets, General Notes, and List of Standard Drawings in a 34" x 22" PDF format  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Conventional Symbols (1B Sheet)   |                                     |                          |                                     |
| 1  | Add any project specific symbols to the standard 1B sheet or add symbol definitions to each affected plan sheet   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2  | Verify current standard 1B sheet is included  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Typical Sections  |                                     |                          |                                     |
| 1  | Pavement schedule corresponds with Final Pavement Design Letter   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2  | Pavement compositions labeled to correspond with pavement schedule  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Dimensions shown on pavement, subgrades, stabilization, shoulders, ditches, slopes, centerline to centerline, medians, sidewalks, utility strips, curb & gutter, etc.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | Slopes shown on pavement, shoulders, subgrade, ditches, hinge point, grading, cuts and fills, rumble strips   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5  | Station to Station shown with correct alignment reference   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6  | Stations are broken for bridges and equalities  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7  | "Grade to this Line" label is shown and points to the subgrade  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 8  | Grade point or crown point shown on each typical section as appropriate   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9  | Detail showing shallow undercut by station range, if applicable   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | Detail(s) showing milling and/or wedging, if applicable   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11 | Information related to paving or other construction operations which will be covered under a future project is shown  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 | Show high and low values for variable slopes and variable widths  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13 | Necessary notes of explanation shown  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 14 | Temporary pavement typical section and design as needed   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15 | Typical sections under bridges are removed except in circumstances where needed through coordination with railroads or for construction of greenways or paths   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16 | Typical sections on bridges are provided  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| A  | Asphalt wearing surface on cored slab and box beam bridges is shown   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B  | Note to "See structure plans for structure construction details" is included  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Details (as needed)   |                                     |                          |                                     |
| 1  | Intersections and Islands   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Include Rip Rap on ditch details unless covered by the Roadway Standard Drawings  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Temporary Shoring   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | Bench Slopes  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5  | Special Drainage Structure or Endwalls  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6  | Special Ditches   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7  | Guardrail not covered by Standards  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Plan Sheets   |                                     |                          |                                     |
| 1  | Begin and end project stations are shown on the first and last plan sheet and agree with title sheet and typical sections   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Existing pavement width and type is shown   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Final horizontal alignment and design shown   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | The following are shown on each plan sheet:   |                                     |                          |                                     |
| A  | North Arrow   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| B  | Bearings  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

|                           |   |                                     |                          |                                     |
|---------------------------|---|-------------------------------------|--------------------------|-------------------------------------|
| C                         | Curve data with superelevation and runoff   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| D                         | Construction limits (slope stake lines), berm ditches, and lateral ditches  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| E                         | Property owners, property lines and parcel numbers  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| F                         | Right of Way, Easement, and Control of Access breaks by station and distance  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| G                         | Areas to remain undisturbed within the Right of Way are clearly marked  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| H                         | Fence and type  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| I                         | Streets, Roads, and Driveways   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| J                         | Onsite Detour alignments. Details for the detours can be shown on a separate plan sheet or as a roadway detail sheet (2-series) instead.                        | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| K                         | Notes explaining if the roadbed of an existing road to be relocated is left in place or graded to create a natural condition.                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| L                         | Information pertaining to bridge layout including lane width, offset to inside of rails, guardrail attachments, begin and end bridge and approach slab stations | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| M                         | Proposed pavement and Right of Way widths at the begin and end of each sheet  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| N                         | Lane lines at intersection, tapers, auxiliary lanes, etc  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| O                         | -Y- lines with begin and end construction stations and station ties with mainline   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| P                         | Traffic data diagrams for intersections from most recent traffic forecast showing the let year and the design year traffic                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Q                         | Limits of paved shoulders at intersections  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| R                         | Note where sight distance grading is required   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| S                         | Borrow and/or waste areas if furnished by NCDOT   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| T                         | Cross reference notes on the plan sheets identify the appropriate sheet number for profile sheets, detail sheets and/or sheets from other units                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| U                         | Symbol denoting pavement removal for locations outside of slope stake lines   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| V                         | Begin and End stations for bridges and culverts   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| W                         | False sump detail if not shown on ditch detail series sheets  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| X                         | Benchmark symbols and number  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| Y                         | Label rip rap, drainage ditch excavation, and geotextile for drainage quantities at each location unless provided on ditch details                              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| Z                         | Drainage design shown   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
|                           | 1. Proposed pipe  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
|                           | 2. Proposed Drainage Structures   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
|                           | 3. Removal of existing pipes  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
|                           | 4. Pipes to be plugged  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| AA                        | Ensure baseline data is shown with point symbol and point name/number. Remove Baseline and Baseline stations  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| BB                        | Label wells to be sealed and abandoned  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| CC                        | Approved Design Exception note, as needed   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>Interchange Sheets</b> |   |                                     |                          |                                     |
| 1                         | Interchange sheets properly matched with adjacent plan sheet with no overlapping coverage   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2                         | Show traffic data, bar scale, and additional items as listed under plan sheets  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3                         | Proposed contour grading detail shown, if requested by the Division   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4                         | Cross section layout detail/shear point diagram included if part of project scope   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5                         | Approved Design Exception note, as needed   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

|    |  |                                     |                          |                                     |
|----|--|-------------------------------------|--------------------------|-------------------------------------|
|    | Intersection Sheets (2-B series)   |                                     |                          |                                     |
| 1  | The detailed information shown on the intersection detail sheets should be restricted to design data only and should not be duplicated on the plan sheets.       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | The following items should be shown unless they do not apply:  |                                     |                          |                                     |
| A  | Information for constructing three centered curves   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B  | Island dimensions and details  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| C  | Legend for islands, sidewalks, and curb ramps as needed  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| D  | Alignments   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| E  | Lane markings  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| F  | Bar scale  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| G  | Proposed edges of pavement   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| H  | North arrow  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| I  | Paved shoulder widths  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| J  | Superelevation rates   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| K  | Sufficient dimensions and tie points for construction layout of all items being detailed   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Profile Sheets   |                                     |                          |                                     |
| 1  | Beginning and ending stations are shown on the first and last plan sheet and agree with title sheet and typical sections   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | The following are shown on each profile sheet:   |                                     |                          |                                     |
| A  | Vertical grade lines and design. Design speed is shown only for vertical curves which do not meet proposed design speed, if applicable.                          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| B  | Undercut excavation  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C  | Hydraulic Data (drainage area, frequency, etc.) for bridges, culverts, and cross pipes   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| D  | Bar scale  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| E  | Proposed grade and existing ground line labeled  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| F  | Ditch profiles with PI and elevation included, as needed   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| G  | Approved Design Exception note, as needed  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Cross Sections   |                                     |                          |                                     |
| 1  | Show existing ground line, stations, and elevations  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Templates showing labeled cut and fill slopes, guardrail widening, ditches, channel changes, etc.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Geotechnical Recommendations for Design and Construction and Geotechnical Recommendations for Pavement and Subgrade reviewed to assure conformity with the plans | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | Undercut Excavation or Shallow Undercut symbology and legend are shown   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5  | Note on cross section summary sheet should indicate whether or not the embankment column includes backfill for undercut  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6  | Lump Sum note on cross section summary sheet contains the items that are included in the lump sum grading  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7  | Confirm the cross section summary, earthwork logs and earthwork balance sheet match  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 8  | Cross section checked to assure adequate sight distances at bridges and intersections  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9  | Scale shown on each sheet  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10 | If an alternative pavement design is included, add a note in the cross section summary sheet indicating which alternative is included in the cross sections      | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Guardrail/Guiderail Design   |                                     |                          |                                     |
| 1  | Guardrail shown for bridge piers, culverts, large pipe, sign supports, and other fixed objects   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Guardrail shown for ponds, rivers, and other water related hazards   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Guardrail/guiderail for median and guardrail for underpass pier, wall, and side slope protection as warranted  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4  | Special details provided as needed for non-standard connections  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

|   |   |                                     |                                     |                                     |
|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 5   | Ensure the appropriate guardrail anchor is proposed for the specific bridge rail/barrier proposed at each location  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6   | Ensure adequate space is provided behind guardrail/guiderail  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7   | Ensure required slopes are utilized in conjunction with guardrail/guiderail   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8   | Ensure non-gating attenuators are labeled accordingly   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 9   | Ensure the appropriate end units are proposed for the design speed(s) of the roadway  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <b>Summary of Quantities</b>  |   |                                     |                                     |                                     |
| 1   | Computation/Calculation of Quantity sheet totals for each pay item checked against estimate   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2   | Summary sheets initialed by the person who created them and the person who checked them   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3   | Earthwork Summary   |                                     |                                     |                                     |
| A   | Complete and provide the Earthwork Balance Sheet to inform the earthwork summary  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| B   | Reference pavement structure volume, when applicable, below earthwork summary   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| C   | Show note related to Geotech data   |                                     |                                     |                                     |
| 4   | Drainage Summary included (starts at Sheet 3D-1), if applicable. Verify the summary matches items included in the plan sheets.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5   | Guardrail and temporary guardrail summaries checked against plan sheet and/or detail sheet  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6   | Concrete Barrier Summary included, if applicable  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 7   | Shoulder Drain Summary included, if applicable  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8   | Pavement Removal and Pavement Breaking summaries include all pavement removed or broken up inside and outside of the slope stake lines on the project   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9   | Fence Summary included, if applicable   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 10  | Geotechnical Summaries (starts at Sheet 3G-1) included, if applicable. Verify the summary matches the Geotechnical Recommendations Report(s)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 11  | Miscellaneous summaries included as necessary   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <b>Estimates</b>  |   |                                     |                                     |                                     |
| 1   | Estimate made for each WBS element, Federal project number and other parts as necessary   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2   | Final construction estimate for PS&E entered into PIQ or AWP is checked against the calculation of quantity sheets and summary of quantities  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3   | Item number, section, and item description checked against master pay item list   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4   | Force account items incorporated into the estimate on Federal Aid projects only   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5   | PDF copy of roadway final construction estimate quantities placed on SharePoint according to PS&E checklist   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6   | Estimate for the drainage pay items matches the totals on the drainage summary sheet along with drainage items shown in the plan sheets   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7   | Project roadway length (mainline only) shown on roadway estimate agrees with title sheet. Do not include structure length   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8   | Cost based estimate quantity breakdown summary sheet completed  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9   | Include on roadway estimate any structure removal pay items not included on the structure estimate  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <b>Special Provisions</b>   |   |                                     |                                     |                                     |
| 1   | Special provisions written for all pay items and contract implementation items not covered by the current "Standard Specification for Roads and Structures", project provisions, or standard special provisions | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <b>Items to be completed after initial plan review comments have been addressed</b> |   |                                     |                                     |                                     |
| 1   | Ensure plans have been electronically signed through the DocuSign process   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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. | Plans will be docusigned after Plan Checking Review |

*This checklist may not be comprehensive for every project. It is the responsibility of the designer submitting the plans to ensure all information is included and complete.*

Plans Prepared by: Joshua Roemer, PE Date: 6/10/25

(Signature): X

**Checked by:** Keith Bridgers  
**(Please Print Name)**



### LUMP SUM

[illegible]

PROJECT NO.: R-5863  
 COMPUTED BY: JCL  
 CHECKED BY: KTB

SHEET 3 OF

SECTION: SP

## GRADING (LUMP SUM)

(THIS COMPUTATION SHEET APPLIES ONLY TO PROJECTS WHICH HAVE BEEN PREDETERMINED TO USE THIS PAY ITEM. SEE ROADWAY DESIGN MANUAL, PART I, 11-6)

| ITEM                                   | QUANTITIES    | UNIT            | UNIT PRICE   | PRICE                       |
|--|---------------|-----------------|--------------|-----------------------------|
| CLEARING AND GRUBBING                  | <u>2.00</u>   | ACRES           | \$ 10,000.00 | <u>\$ 20,000.00</u>         |
| UNCLASSIFIED EXCAVATION                | <u>23,100</u> | YD <sup>3</sup> | \$ 6.00      | <u>\$ 138,600.00</u>        |
| BORROW EXCAVATION                      | <u>8,700</u>  | YD <sup>3</sup> | \$ 6.25      | <u>\$ 54,375.00</u>         |
| SHOULDER BORROW                        | <u></u>       | YD <sup>3</sup> | \$ 6.25      | <u>\$ -</u>                 |
| FINE GRADING                           | <u>15,420</u> | YD <sup>2</sup> | \$ 2.50      | <u>\$ 38,550.00</u>         |
| REMOVAL OF EXISTING ASPHALT PAVEMENT   | <u>7,050</u>  | YD <sup>2</sup> | \$ 2.50      | <u>\$ 17,625.00</u>         |
| REMOVAL OF EXISTING CONCRETE PAVEMENT  | <u></u>       | YD <sup>2</sup> | \$ 10.00     | <u>\$ -</u>                 |
| BREAKING OF EXISTING ASPHALT PAVEMENT  | <u></u>       | YD <sup>2</sup> | \$ 2.00      | <u>\$ -</u>                 |
| BREAKING OF EXISTING CONCRETE PAVEMENT | <u></u>       | YD <sup>2</sup> | \$ 5.00      | <u>\$ -</u>                 |
|  |               |                 | <b>TOTAL</b> | <u><b>\$ 269,150.00</b></u> |

IF THE SUMMATION OF THE ITEM AMOUNTS IS \$1,000,000.00 OR LESS, THEN THE GRADING MAY BE LET ON A "LUMP SUM" BASIS WITH CONCURRENCE OF THE DIVISION ENGINEER. IF THE COST OF ANY ONE OF THE ITEMS, EXCLUDING CLEARING AND GRUBBING AND FINE GRADING, IS 50% OR MORE OF THE TOTAL COST CALCULATED, THEN THAT ITEM SHALL BE INCLUDED AS AN INDIVIDUAL ITEM WITH THE OTHER ITEMS BEING DONE ON A "LUMP SUM GRADING" BASIS. A SPECIAL PROVISION WILL BE NEEDED IN THIS CASE AND THE PAY ITEM "GRADING" SHOULD BE INDICATED AS A "SP" IN THE ESTIMATE. IF THE SUM OF THE LUMP SUM ITEMS AMOUNTS EXCEEDS \$1,000,000.00 OR IS 25% MORE OF THE TOTAL COST OF THE PROJECT, THE PROJECT SHALL CONTAIN THE INDIVIDUAL ITEMS, IT WILL BE NECESSARY TO CALCULATE AND SHOW THE PAVEMENT STRUCTURE VOLUME ON THE SUMMARY OF EARTHWORK.

OTHER CONSIDERATIONS FOR LUMP SUM GRADING MAY UTILIZE A DOLLAR LIMIT. FOR EXAMPLE 3R PROJECTS WITH "TRENCHING & WIDENING" AND MINOR GRADING SHOULD BE CONSIDERED WHEN USE OF CROSS-SECTIONS FOR EARTHWORK BY THE RESIDENT ENGINEER IS NOT PRACTICAL. WHEN APPLYING LUMP SUM GRADING TO THESE SPECIAL APPLICATIONS, APPROVAL BY THE ASSISTANT STATE ROADWAY DESIGN ENGINEER AND PROPOSALS AND CONTRACTS SECTION ENGINEER IS REQUIRED ON A PROJECT-BY-PROJECT BASIS.

\* LIST ALL QUANTITIES ON THE CALCULATION SHEET EVEN IF THE PAY ITEM PRICE EXCEEDS 50% OR MORE OF THE TOTAL COST.

PROJECT NO.: R-5863  
COMPUTED BY: JCL  
CHECKED BY:

SHEET OF

SECTION: 226

# UNDERCUT EXCAVATION

FROM GEOTECH 2250 CY

PROJECT NO.: R-5863  
COMPUTED BY: JCL  
CHECKED BY: KTB

SHEET 4 OF

SECTION: 200

# SUPPLEMENTARY CLEARING AND GRUBBING

| CLEARING AND GRUBBING |   | SUPPLEMENTARY<br>CLEARING AND GRUBBING |  |
|-----------------------|---|--|--|
| 0 THRU 10 ACRES       | = | 1 ACRES                                |  |
| 11 THRU 25 ACRES      | = | 2 ACRES                                |  |
| 26 THRU 50 ACRES      | = | 3 ACRES                                |  |
| 51 THRU 80 ACRES      | = | 4 ACRES                                |  |
| 80 ACRES OR MORE      | = | 5 ACRES                                |  |

ACRES SUPPLEMENTARY CLEARING AND GRUBBING

1

ACRES

[illegible]

[illegible]

PROJECT NO.: R-5863  
COMPUTED BY: JCL  
CHECKED BY:

SHEET OF

SECTION: 265

# SELECT GRANULAR MATERIAL

FROM GEOTECHNICAL 2000 CY





[illegible]

PROJECT NO.:  
COMPUTED BY: GEOENVIRONMENTAL  
CHECKED BY:

SHEET OF  
SECTION: SP

## HAULING CONTAMINATED SOIL

Per Geoenvironmental Email

Dated: June 9, 2025

SAY 250 TONS

PROJECT NO. : R-5863

COMPUTED BY: JCL

CHECKED BY: KTB

SHEET 7 OF

SECTION: 300

# FOUNDATION CONDITIONING MATERIAL MINOR STRUCTURES

$$\begin{array}{rclclcl} \underline{7176} & \text{LIN. FT} & \times & 0.106 & = & \underline{760.66} \text{ TONS} \\ & & & & \text{SAY} & \underline{770} \text{ TONS} \end{array}$$

# FOUNDATION CONDITIONING GEOTEXTILE

$$\begin{array}{rclclcl} \underline{7176} & \text{LIN. FT} & \times & 6 \text{ FT / 18} & = & \underline{2392.00} \text{ SY} \\ & & & & \text{SAY} & \underline{2400} \text{ SY} \end{array}$$





PROJECT NO.:R-5863  
COMPUTED BY: JCL  
CHECKED BY:

SHEET OF  
SECTION: 505

# CLASS IV SUBGRADE STABILIZATION

CONTINGENCY = 1,000 TONS

[illegible]



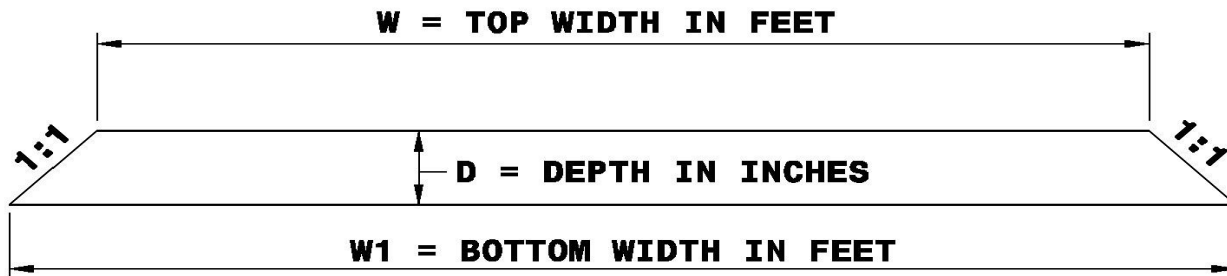
[illegible]

[illegible]

PROJECT NO.:R-5863  
 COMPUTED BY:JCL  
 CHECKED BY:KTB

SHEET OF  
 SECTION: 610

# ASPHALT CONCRETE BASE COURSE TYPE B25.0C



CALCULATE:

$$\text{LENGTH} \times ((W+W1)/2) \times D \times 114\# / \text{YD}^2 / \text{IN} = \text{TONS}$$

$$9 \text{ FT}^2 / \text{YD}^2 \times 2000\# / \text{TON}$$

NOTE: IF USING AREA, NO LENGTH OR W1 FIGURE IS NEEDED IN COMPUTATION.

| LINE       | BEG STA. | END STA. | LENGTH | AREA / W | W1        | DEPTH | TONS    |
|------------|----------|----------|--------|----------|-----------|-------|---------|
| L          | 10+30    | 40+50    | 1.00   | 43881    | 43881.000 | 4     | 1111.65 |
| L          | 40+50    | 47+00    | 1.00   | 20787    | 20787.000 | 4     | 526.60  |
| L          | 47+00    | 49+00    | 1.00   | 2288     | 2288.000  | 4     | 57.96   |
| L          | 49+00    | 54+00    | 1.00   | 16264    | 16264.000 | 4     | 412.02  |
| L          | 54+00    | 62+00    | 1.00   | 9632     | 9632.000  | 4     | 244.01  |
| L          | 62+00    | 63+64    | 1.00   | 5473     | 5473.000  | 4     | 138.65  |
| Roundabout |          |          | 1.00   | 7540     | 7540.000  | 4     | 191.01  |
|            |          |          |        |          |           |       |         |
| L          | 64+96    | 66+90    | 1.00   | 7225     | 7225.000  | 4     | 183.03  |
| L          | 66+90    | 72+65    | 1.00   | 630      | 630.000   | 4     | 15.96   |
|            |          |          |        |          |           |       |         |
| Y1         |          |          | 1.00   | 2879     | 2879.000  | 4     | 72.93   |
| Y2         |          |          | 1.00   | 1514     | 1514.000  | 4     | 38.35   |
| Y3         |          |          | 1.00   | 2387     | 2387.000  | 4     | 60.47   |
| Y3A        |          |          | 1.00   | 1667     | 1667      | 4     | 42.23   |
| Y4         |          |          | 1.00   | 5487     | 5487.000  | 4     | 139.00  |
| Y5         |          |          | 1.00   | 4120     | 4120.000  | 4     | 104.37  |
| Y6         |          |          | 1.00   | 2876     | 2876.000  | 4     | 72.86   |
|            |          |          |        |          |           |       |         |
|            |          |          |        |          |           | TOTAL | 3411.10 |
|            |          |          |        |          |           |       |         |

[illegible]

[illegible]



| LINE        | BEG. STA. | END STA. | LENGTH | AREA /<br>W | W1       | DEPTH | TONS    |
|-------------|-----------|----------|--------|-------------|----------|-------|---------|
| L           | 62+00     | 63+64    | 1.0    | 5473        | 5473.000 | 3     | 102.16  |
| ROUNDAABOUT |           |          | 1.0    | 7540        | 7540.000 | 3     | 140.75  |
| L           | 64+96     | 66+90    | 1.0    | 7225        | 7225.000 | 3     | 134.87  |
| L           | 66+90     | 72+65    | 1.0    | 630         | 630.000  | 3     | 11.76   |
|             |           |          |        |             |          |       |         |
| Y1          |           |          | 1.0    | 2879        | 2879.000 | 3     | 53.74   |
| Y2          |           |          | 1.0    | 1514        | 1514.000 | 3     | 28.26   |
| Y3          |           |          | 1.0    | 2387        | 2387.000 | 3     | 44.56   |
| Y3A         |           |          | 1.0    | 1667        | 1667     | 3     | 31.12   |
| Y4          |           |          | 1.0    | 5487        | 5487.000 | 3     | 102.42  |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
| Y5          |           |          | 1.0    | 4120        | 4120.000 | 3     | 76.91   |
| Y6          |           |          | 1.0    | 2876        | 2876.000 | 3     | 53.69   |
| Y7          |           |          | 1.0    | 4368        | 4368.000 | 3     | 81.54   |
| Y8          |           |          | 1.0    | 2912        | 2921.000 | 3     | 54.36   |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             | SHEET    | TOTAL | 916     |
|             |           |          |        |             |          | TOTAL | 3932    |
|             |           |          |        |             |          | SAY   | 3935.00 |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |
|             |           |          |        |             |          |       |         |

PROJECT NO.: R-5863  
 COMPUTED BY: JCL  
 CHECKED BY:

SHEET OF

SECTION: 620

## ASPHALT BINDER FOR PLANT MIX

### GRADE PG 64-22

|                            |       |      |   |       |   |        |      |
|----------------------------|-------|------|---|-------|---|--------|------|
| SA-1                       |       | TONS | X | 0.068 | = |        | TONS |
| S4.75A                     |       | TONS | X | 0.070 | = |        | TONS |
| S9.5B                      |       | TONS | X | 0.065 | = |        | TONS |
| S9.5C                      | 3,935 | TONS | X | 0.059 | = | 232.17 | TONS |
| I19.0C                     | 3,600 | TONS | X | 0.048 | = | 172.80 | TONS |
| B25.0C                     | 5,110 | TONS | X | 0.045 | = | 229.95 | TONS |
| PADC, TYPE P-57            |       | TONS | X | 0.030 | = |        | TONS |
| PADC, TYPE P-78M           |       | TONS | X | 0.030 | = |        | TONS |
| PATCHING EXISTING PAVEMENT | 200   | TONS | X | 0.048 | = | 9.60   | TONS |

|   |  |   |               |      |
|---|--|---|---------------|------|
| SUBTOTAL TONS ASPHALT BINDER<br>FOR PLANT MIX, GRADE PG 64-22 |  | = | <u>644.52</u> | TONS |
|---|--|---|---------------|------|

|  |  |     |               |      |
|--|--|-----|---------------|------|
| TOTAL TONS ASPHALT BINDER<br>FOR PLANT MIX |  | =   | <u>644.52</u> | TONS |
|  |  | SAY | <u>645</u>    | TONS |

THIS SHEET IS SHOWING RATES FROM THE 2023 QMS ASPHALT MANUAL



[illegible]

PROJECT NO.: R-5863SHEET OF  
SECTION: 815**SUBSURFACE DRAINS**

SUBDRAIN EXCAVATION ( USE 6' DEPTH FOR PROOF ROLLING AND 4' DEPTH ELSEWHERE ) 112.0 YD<sup>3</sup>

GEOTEXTILE FOR SUBSURFACE DRAINS ..... 500 YD<sup>2</sup>

SUBDRAIN COARSE AGGREGATE ( USE 3' DEPTH ) ..... 84.0 YD<sup>3</sup>

6" PERFORATED SUBDRAIN PIPE ..... 500 LIN. FT.

6" OUTLET PIPE ( 6 LINEAR FT. PER PIPE OUTLET ) ..... 6 LIN. FT.

SUBDRAIN PIPE OUTLET ( USE 1 PER 500' OF PIPE ) ..... 1 EACH

EXCAVATION 500 LIN. FT. x 4 DEPTH x 0.056 = 112.0 YD<sup>3</sup>

AGGREGATE 500 LIN. FT. x 3' DEPTH x 0.056 = 84.0 YD<sup>3</sup>

**NOTE: USE 6" SUBDRAIN PIPE UNLESS ANOTHER SIZE IS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL UNIT.**

Calculated by :

Checked by :

[illegible]

**SECTION: 846**

[illegible]

[illegible]

PROJECT NO.: R-5863  
 COMPUTED BY: JCL  
 CHECKED BY: KTB

SHEET OF

SECTION: 848

# 4" CONCRETE SIDEWALK

| LINE | STATION  | STATION  | LOCATION | LENGTH | WIDTH | SQUARE YARDS  |
|------|----------|----------|----------|--------|-------|---------------|
| L    | 10+30.00 | 10+90.00 | Rt       | 45     | 5     | 25.00         |
| L    | 10+93.00 | 12+68.00 | Rt       | 160    | 5     | 88.89         |
| L    | 12+87.00 | 16+98.00 | Rt       | 411    | 5     | 228.33        |
| L    | 17+33.00 | 24+84.00 | Rt       | 751    | 5     | 417.22        |
| L    | 25+11.00 | 26+20.00 | Rt       | 109    | 5     | 60.56         |
| L    | 26+48.00 | 28+54.00 | Rt       | 206    | 5     | 114.44        |
| L    | 28+74.00 | 31+96.00 | Rt       | 322    | 5     | 178.89        |
| L    | 32+12.00 | 40+49.00 | Rt       | 837    | 5     | 465.00        |
| L    | 40+83.00 | 48+62.00 | Rt       | 779    | 5     | 432.78        |
| L    | 49+04.00 | 50+93.00 | Rt       | 189    | 5     | 105.00        |
| Y3A  | 10+25.00 | 10+46.00 | Rt       | 21     | 5     | 11.67         |
| L    | 10+43.00 | 12+14.00 | Rt       | 171    | 5     | 95.00         |
| L    | 54+36.00 | 56+55.00 | Rt       | 219    | 5     | 121.67        |
| L    | 56+80.00 | 58+67.00 | Rt       | 187    | 5     | 103.89        |
| L    | 58+85.00 | 58+95.00 | Rt       | 10     | 5     | 5.56          |
| L    | 59+12.00 | 61+09.00 | Rt       | 197    | 5     | 109.44        |
| L    | 61+24.00 | 62+14.00 | Rt       | 90     | 5     | 50.00         |
| L    | 62+40.00 | 63+33.00 | Rt       | 93     | 5     | 51.67         |
| L    | 63+37.00 | 63+57.00 | Rt       | 301    | 1     | 33.44         |
| L    | 64+92.00 | 65+32.00 | Rt       | 415    | 1     | 46.11         |
| L    | 65+38.00 | 70+37.00 | Rt       | 499    | 5     | 277.22        |
| L    | 70+75.00 | 71+90.00 | Rt       | 115    | 5     | 63.89         |
| L    | 72+15.00 | 72+63.00 | Rt       | 255.3  | 1     | 28.40         |
| L    | 58+55.00 | 58+94.00 | Lt       | 39     | 5     | 21.67         |
| L    | 59+13.00 | 60+97.00 | Lt       | 184    | 5     | 102.22        |
| Y4   | 41+35.00 | 42+07.00 | Rt       | 89     | 5     | 49.44         |
| L    | 61+80.00 | 63+29.00 | Lt       | 149    | 5     | 82.78         |
| L    | 63+35.00 | 11+42 Y5 | Lt       | 529.7  | 1     | 58.86         |
| Y5   | 10+25.00 | 11+24.00 | Rt       | 99     | 5     | 55.00         |
| Y5   | 11+47.00 | 65+32 L  | Lt       | 861.8  | 1     | 95.76         |
| L    | 65+36.00 | 65+50.00 | Lt       | 14     | 5     | 7.78          |
| L    | 65+89.00 | 67+74.00 | Lt       | 185    | 6     | 123.33        |
| L    | 67+90.00 | 67+97.00 | Lt       | 7      | 6     | 4.67          |
| L    | 68+51.00 | 70+60.00 | Lt       | 209    | 5     | 116.11        |
| L    | 71+05.00 | 71+95.00 | Lt       | 556.9  | 1     | 61.88         |
| Y8   | 12+75.00 | 15+05.00 | Lt       | 230    | 5     | 127.78        |
|      |          |          |          |        |       |               |
|      |          |          |          |        |       | TOTAL 4021.33 |
|      |          |          |          |        |       | SAY 4025      |

[illegible]



| SHEET |  |  | WIDTH | SQUARE YARDS |
|-------|--|--|-------|--------------|
| 4     |  |  | 20    | 12.798       |
| 4     |  |  | 35    | 21.131       |
| 4     |  |  | 27    | 16.131       |
| 4     |  |  | 20    | 12.798       |
| 5     |  |  | 30    | 18.354       |
| 5     |  |  | 30    | 18.354       |
| 5     |  |  | 20    | 12.798       |
| 5     |  |  | 20    | 12.798       |
| 5     |  |  | 20    | 12.798       |
| 6     |  |  | 36    | 21.687       |
| 6     |  |  | 36    | 21.687       |
| 7     |  |  | 45    | 26.687       |
| 7     |  |  | 16    | 10.576       |
| 7     |  |  | 25    | 15.576       |
| 7     |  |  | 16    | 10.576       |
| 7     |  |  | 16    | 10.576       |
| 7     |  |  | 42    | 23.909       |
| 7     |  |  | 20    | 12.798       |
| 7     |  |  | 20    | 12.798       |
| 7     |  |  | 20    | 12.798       |
| 7     |  |  | 16    | 10.576       |
| 7     |  |  | 25    | 15.576       |
| 8     |  |  | 16    | 10.576       |
| 8     |  |  | 16    | 10.576       |
| 8     |  |  | 16    | 10.576       |
| 8     |  |  | 24    | 15.020       |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
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|       |  |  |       |              |
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|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  |       |              |
|       |  |  | TOTAL | 390.528      |
|       |  |  | SAY   | 400          |

[illegible]

[illegible]

[illegible]

[illegible]

PROJECT NO.: R-5863  
COMPUTED BY: JCL  
CHECKED BY:

**SHEET      OF**

**SECTION: 866**

## 2\_ STRAND BARBED WIRE FENCE WITH POSTS

[illegible]

**SHEET OF**  
**SECTION: 876**

[illegible]

**SHEET OF**  
**SECTION: 876**

[illegible]



| LINE | BEG. STA. | END STA. | LOCATION | LENGTH  | AVERAGE WIDTH | SQUARE YARDS |
|------|-----------|----------|----------|---------|---------------|--------------|
| L    | 17+90     | 18+90    | Rt       | 100.000 | 22.5          | 250.00       |
| L    | 41+83     | 43+00    | Rt       | 117.000 | 22.5          | 292.50       |
| L    | 19+45     |          | Lt       |         |               | 70.00        |
| L    | 20+20     | 24+32    | Rt       | 412.000 | 16.9          | 773.64       |
| Y1   | 14+20     |          | Lt       |         |               | 7.00         |
| Y1   | 14+20     |          | Rt       |         |               | 7.00         |
| L    | 24+95     |          | Lt       |         |               | 14.00        |
| L    | 28+20     |          | Lt       |         |               | 110.00       |
| L    | 30+50     | 31+50    | Lt       | 100.000 | 16.9          | 187.78       |
| L    | 31+95     |          | Lt       |         |               | 125.00       |
| L    | 33+14     |          | Lt       |         |               | 70.00        |
| L    | 39+32     |          | Lt       |         |               | 5.00         |
| L    | 39+47     |          | Lt       |         |               | 25.00        |
| L    | 41+80     |          | Lt       |         |               | 18.00        |
| L    | 42+00     |          | Lt       |         |               | 7.00         |
| L    | 43+00     | 44+00    | Rt       | 100.000 | 16.9          | 187.78       |
| L    | 49+00     |          | Rt       |         |               | 7.00         |
| L    | 50+65     | 50+80    | Rt       | 15.000  | 21.5          | 35.83        |
| L    | 50+80     | 51+40    | Lt       | 60.000  | 19.5          | 130.00       |
| L    | 53+08     |          | Rt       |         |               | 25.00        |
| Y3A  | 11+50     | 12+40    | Lt       | 90.0    | 16.9          | 169.00       |
| L    | 57+42     |          | Rt       |         |               | 15.00        |
| Y8   | 16+55     |          | Lt       |         |               | 158.00       |
| Y    | 11+00     |          | Rt       |         |               | 7.00         |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         |               |              |
|      |           |          |          |         | TOTAL         | 2697         |
|      |           |          |          |         | SAY           | 2700         |

**SHEET OF**

**SECTION: SP**

# CLEARING AND GRUBBING

| LINE  | STATION  | STATION  | LOCATION | AREA FROM<br>CADD OR<br>LENGTH | WIDTH                 | SQUARE FEET |
|---|----------|----------|----------|--------------------------------|-----------------------|-------------|
| -L-   | 11+30.00 | 12+30.00 | LT       | 3,200.00                       |                       | 3,200.00    |
| -L-   | 13+88.00 | 15+75.00 | LT       | 3,409.00                       |                       | 3,409.00    |
| -L-   | 16+47.00 |          | LT       | 332.00                         |                       | 332.00      |
| -L-   | 19+27.00 | 19+70.00 | LT       | 2,473.00                       |                       | 2,473.00    |
| -L-   | 24+94.00 | 25+59.00 | LT       | 697.00                         |                       | 697.00      |
| -L-   | 26+95.00 | 29+72.00 | LT       | 7,625.00                       |                       | 7,625.00    |
| -L-   | 27+57.00 |          | RT       | 231.00                         |                       | 231.00      |
| -L-   | 27+97.00 | 28+78.00 | RT       | 1,299.00                       |                       | 1,299.00    |
| -L-   | 30+32.00 |          | RT       | 193.00                         |                       | 193.00      |
| -L-   | 36+37.00 | 37+75.00 | RT       | 2,688.00                       |                       | 2,688.00    |
| -L-   | 37+88.00 | 38+20.00 | RT       | 645.00                         |                       | 645.00      |
| -L-   | 39+80.00 | 42+67.00 | RT       | 5,321.00                       |                       | 5,321.00    |
| -L-   | 42+85.00 | 46+19.00 | RT       | 5,262.00                       |                       | 5,262.00    |
| -L-   | 44+05.00 | 44+90.00 | RT       | 766.00                         |                       | 766.00      |
| -L-   | 46+82.00 | 49+73.00 | RT       | 15,692.00                      |                       | 15,692.00   |
| -L-   | 49+77.00 | 50+47.00 | LT       | 2,533.00                       |                       | 2,533.00    |
| -L-   | 50+73.00 | 51+26.00 | LT       | 1,369.00                       |                       | 1,369.00    |
| -L-   | 51+51.00 | 52+57.00 | LT       | 2,252.00                       |                       | 2,252.00    |
| -L-   | 52+04.00 | 53+14.00 | RT       | 4,607.00                       |                       | 4,607.00    |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
|   |          |          |          |                                |                       |             |
| <u>Total Sq. Feet</u> =<br><b>43560 Sq. Feet/ACRE</b> |          |          |          |                                | <b>Total Sq. Feet</b> | 57,394.00   |
|   |          |          |          |                                | <b>Acres</b>          | 1.32        |
|   |          |          |          |                                | <b>SAY</b>            | 2.00        |

|      |            |          |          |        | AREA FROM                |             |
|------|------------|----------|----------|--------|--------------------------|-------------|
| LINE | STATION    | STATION  | LOCATION | LENGTH | CADD OR WIDTH            | SQUARE FEET |
| -L-  | 10+30.00   | 40+50.00 |          |        | 43881.00                 | 43,881.00   |
| -L-  | 40+50.00   | 47+00.00 |          |        | 20787.00                 | 20,787.00   |
| -L-  | 47+00.00   | 49+00.00 |          |        | 2,288.00                 | 2,288.00    |
| -L-  | 54+00.00   | 62+00.00 |          |        | 9,632.00                 | 9,632.00    |
| -L-  | 62+00.00   | 63+64.00 |          |        | 5,473.00                 | 5,473.00    |
|      | Roundabout |          |          |        | 7,540.00                 | 7,540.00    |
| -L-  | 64+96.00   | 66+90.00 |          |        | 7,225.00                 | 7,225.00    |
| -L-  | 66+90.00   | 72+65.00 |          |        | 630.00                   | 630.00      |
| Y1   |            |          |          |        | 2,879.00                 | 2,879.00    |
| Y2   |            |          |          |        | 1,514.00                 | 1,514.00    |
| Y3   |            |          |          |        | 2,387.00                 | 2,387.00    |
| Y3A  |            |          |          |        | 3,572.00                 | 3,572.00    |
| Y4   |            |          |          |        | 5,487.00                 | 5,487.00    |
| Y5   |            |          |          |        | 4,120.00                 | 4,120.00    |
| Y6   |            |          |          |        | 2,876.00                 | 2,876.00    |
| Y7   |            |          |          |        | 4,368.00                 | 4,368.00    |
| Y8   |            |          |          |        | 2,912.00                 | 2,912.00    |
| DWY1 |            |          |          |        | 1,753.00                 | 1,753.00    |
| DWY2 |            |          |          |        | 3,512.00                 | 3,512.00    |
| DWY4 |            |          |          |        | 3,281.00                 | 3,281.00    |
| DWY6 |            |          |          |        | 1,237.00                 | 1,237.00    |
| DWY7 |            |          |          |        | 1,419.00                 | 1,419.00    |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        |                          |             |
|      |            |          |          |        | TOTAL IN FT <sup>2</sup> | 138,773.00  |
|      |            |          |          |        | TOTAL IN YD <sup>2</sup> | 15,419.22   |
|      |            |          |          |        | SAY                      | 15,420.00   |

## SECTION: 250