**General Information**
- All graphics and text will be in the sheet model. Guardrail can be cut and paste from its own model to the desired model.
- Length of Project table is integrated into the sheet. Double click on the cell to edit.

**3R Horizontal/Vertical Alignment Adjustments Template Drawings.** Refer to the 3R+ Matrix to ensure this is the appropriate template to use for your application. Use these template drawings for locations where Horizontal and Vertical Alignment adjustments are proposed along with re-use of the existing pavement.

**Road Inventory Program Milepost data.** The NPS uses the Road Inventory Program (RIP) as part of their asset management program. Include the RIP milepost data in the ‘Length of Project’ table for NPS projects only. To find this information, use VisiData (see the VisiData Route_GPS Workspace to see mileposts and GPS longitude and latitude) or ask Planning and Programming. Delete the last column in the ‘Length of Project’ table for all non-NPS projects (e.g. USFS, USFWS, IRR, etc).

**Safety Edge.** Use the safety edge on all projects with asphalt surfacing with the following exceptions: roadways w/curb and gutter, bridges and other structures, parking areas, projects less than 1000 ft long, such as bridge approaches, pavement preservation projects.

**Applicable SCRs**
- SCR’s used can vary based on the project and pay items used. Ensure that SCR’s provided are consistent with the pay items provided in the contract. Coordinate with the Pavements Engineer to select and edit the appropriate SCR for the project. Refer to the designer’s notes in each SCR for common items needing input and editing. Remember to include in Section 152 what information is being provided to the Contractor. Recommend using 308 SCR for recycled aggregate base.
Typical Pay Items Used
- The pay items used for 3R projects in Sections 152, 302, 308, 401, 402, 403 can vary per project. Refer to the CFLHD Engineer’s Estimate Manual for recommended pay items. Coordinate with the Pavements Engineer to determine the most appropriate pay items for the structural section. Use Section 308 pay item for recycled aggregate base. Evaluate the need to include a separate 302 pay item for imported aggregate as well based on volumes required to construct proposed typical section.
- Subexcavation may be included. Roadway excavation or embankment will be included.

Other Recommendations for 3R Widening
- Cross sections are typically provided.
- Staking Reports are typically provided. Provide subgrade template and blue top reports.
- Plan/Profile sheets typically provided.

Updates
- April 2021
  - Template sheet created
**EXISTING TYPICAL SECTION ?? to ??**

*Existing asphalt pavement depth varies from x" to x"
Existing aggregate base depth varies from x" to x"*

**TYPICAL SECTION ?? to ??**

*Topsoil and seeding
x' Subgrade
x' Subgrade
Topsoil and seeding
x' Clear Zone
x' Hinge point
x' Tack coat
x' Prime coat
x' Recycled aggregate base
See note 4

*Profile grade (top of pavement)*

*See Detail A*

**Note:**
1. The gradient and width of the roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
2. See cross sections for cut and fill slope ratios.
3. Construct curve widening as shown in the table below. Apply the widening on the inside of the curves throughout the superelevated sections. Transition the curve widening to coincide with the superelevation transitions.
4. Remove x" depth of pavement structure, mix with new aggregate and raise according to section 306.

**DETAIL A**

*Applies to both sides of the roadway*

**LENGTH OF PROJECT**

<table>
<thead>
<tr>
<th>Station to Station</th>
<th>Roadway (ft)</th>
<th>Bridge (ft)</th>
<th>Road Inventory Program Milepost Data (Cycle #)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>?? to ??</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTALS (ft)</th>
<th>TOTALS (mi)</th>
</tr>
</thead>
</table>

*Road Inventory Program data shown for information only

**WIDENING ON CURVES**

*See note 3*

<table>
<thead>
<tr>
<th>Radius (ft)</th>
<th>Widening (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over ??</td>
<td></td>
</tr>
<tr>
<td>?? to ??</td>
<td></td>
</tr>
<tr>
<td>?? &amp; under</td>
<td></td>
</tr>
</tbody>
</table>

**TYPICAL SECTIONS MAINLINE**

No Scale