### DESIGN DATA

**DESIGN:** AASHTO LRFD Bridge Design Specifications, 2014 Edition with California Amendments,

**F:** 33 psf on sound wall

F = 54 kips on barrier

**DETER:** 0.2

**H** = 0.5

### REINFORCED CONCRETE

f'c = 3600 psi

fy = 60 ksi

n = 8

### CONCRETE:

- **BEARING PADS:**
  - 1" x 8" x 12" BEARING PAD
  - 1" EXPANDED POLYSTYRENE

- **LAGGING:**
  - 2" x 12" BUNDLED W/#5

- **CONCRETE BARRIER SLAB DETAILS**

- **SECTION A-A**
  - 2" Min Expanded Polystyrene
  - 1" EXPANDED POLYSTYRENE

- **CONCRETE BARRIER SLAB WITH PAVING NOTCH**

- **SECTION A-A**
  - 2" Min Expanded Polystyrene
  - 1" EXPANDED POLYSTYRENE

### NOTES:

1. Clearance to reinforcing steel in concrete barrier to be 1".
2. Not all barrier reinforcement shown.
3. No expansion joints in concrete barrier or barrier slab within wall limits.
4. Specific concrete barrier to be used is shown elsewhere in Project Plans.
5. Sound wall not permitted on MSE walls unless supported by a CS FM pile foundation. See Sheet A5-015, Stabilized Embankment Design No. 5 Sheet.
6. Install cable railing or chain link railing when indicated in Project Plans, refer to Standard Plans B11-7 and B11-67 for anchor details.
7. Minimum slab length: 40 ft
8. Minimum slab length: 40 ft.

### DESIGN AND WORKSHEET

- **ARCHITECTURAL TREATMENT:**
  - 2" clr

- **CONCRETE BARRIER SLAB DIMENSIONS**

<table>
<thead>
<tr>
<th>DESIGN &quot;H&quot; OF SOUND WALL</th>
<th>NO.</th>
<th>2'-6&quot;</th>
<th>6'-0&quot;</th>
<th>6'-0&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARRIER TYPE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>T</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>T</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>W</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>D</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### MATERIALS

- **CONCRETE:**
  - #5 Cont, Tot 5

- **POLYSTYRENE:**
  - 2" Min Expanded Polystyrene

- **CONTACTS:**
  - 4'-0" wide pavement reinforcing fabric

- **OR WALL STEM**

- **WALL FACING**

- **BEARING PADS:**
  - 1" x 8" x 12" BEARING PAD

- **LAGGING:**
  - 2" x 12" BUNDLED W/#5

- **TOOLING:**
  - 2" CLR

- **NOTES:**
  - Indicates bundled bars

- **SPECIFICATIONS:**