

# ***List of Tables***

|                   |   |     |
|-------------------|---|-----|
| <b>Table 1.1</b>  | Load Combinations and Load Factors .....  | 4   |
| <b>Table 1.2</b>  | Load Factors for Permanent Loads, $\gamma_p$ .....  | 5   |
| <b>Table 1.3</b>  | Multiple Presence Factors, m.....   | 9   |
| <b>Table 1.4</b>  | Dynamic Load Allowance, IM.....   | 10  |
| <b>Table 2.1</b>  | Distributed Live Load and Dead Load Effects for Interior Beam for Reinforced Concrete T-Beam Bridge .....       | 31  |
| <b>Table 2.2</b>  | Unfactored Beam Moments and Shears Due to Dead Loads and Live Loads for Reinforced Concrete T-Beam Bridge ..... | 34  |
| <b>Table 2.3</b>  | Dead Loads and Distributed Live Loads Effects Summary for Interior T-Beam.....                                  | 71  |
| <b>Table 2.4</b>  | Load Factors for Load Rating for Reinforced Concrete Bridge ..  | 72  |
| <b>Table 2.5</b>  | Rating Factor (RF) .....  | 73  |
| <b>Table 2.6</b>  | Complete Live Load Effect Summary .....   | 86  |
| <b>Table 2.7</b>  | Summary of Plastic Moment Capacity and Shear Force.....   | 96  |
| <b>Table 2.8</b>  | Load Modifier Factors .....   | 120 |
| <b>Table 2.9</b>  | Summary of Distribution Factors:.....   | 129 |
| <b>Table 2.10</b> | Summary of Fatigue Limit State Distribution Factors .....   | 129 |
| <b>Table 2.11</b> | Summary of Loads, Shears, and Moments in Interior Beams..   | 132 |
| <b>Table 2.12</b> | Summary of Loads, Shears, and Moments in Exterior Beams.....  | 133 |
| <b>Table 2.13</b> | Force Effects Summary Table.....  | 154 |
| <b>Table 2.14</b> | Load Factors for Permanent Loads.....   | 155 |
| <b>Table 2.15</b> | Strength I Limit State Summary .....  | 157 |
| <b>Table 2.16</b> | Summary of Section Properties .....   | 169 |
| <b>Table 2.17</b> | Unfactored Moments per Girder .....   | 173 |
| <b>Table 2.18</b> | Summary of Distribution Factors.....  | 191 |
| <b>Table 2.19</b> | Summary of Forces.....  | 213 |

**Table 3.1** Dead Load Summary of Unfactored Shears and Moments  
for Interior and Exterior Girders.....222

**Table 3.2** Summary of Live Load Effects.....230

**Table 3.3** Summary of Dead Load Shears and Moments  
in Interior Beams.....250

**Table 3.4** Summary of Live Load Shears and Moments .....253

**Table 3.5** Summary of Live Load Distribution Factors .....258

**Table 3.6** Summary of Unfactored Distributed Live Load Effects  
per Beam.....259

**Table 3.7** Load Modifiers .....265

**Table 3.8** Dynamic Load Allowance, IM.....270

**Table 3.9** Summary of Dead Load Moments and Shears.....276