Figure 3.3-1a  Permissible Earthquake Resisting Systems (ERS).

1. **Longitudinal Response**
   - Plastic hinges in inspectable locations.
   - Abutment resistance not required as part of ERS
   - Knock-off backwalls permissible

2. **Longitudinal Response**
   - Isolation bearings accommodate full displacement
   - Abutment not required as part of ERS

3. **Transverse Response**
   - Plastic hinges in inspectable locations.
   - Abutment not required in ERS, breakaway shear keys permissible

4. **Transverse or Longitudinal Response**
   - Plastic hinges in inspectable locations
   - Isolation bearings with or without energy dissipaters to limit overall displacements

5. **Transverse or Longitudinal Response**
   - Abutment required to resist the design earthquake elastically
   - Longitudinal passive soil pressure shall be less than 0.70 of the value obtained using the procedure given in Article 5.2.3

6. **Longitudinal Response**
   - Multiple simply-supported spans with adequate support lengths
   - Plastic hinges in inspectable locations.