1. All material and quality of work shall be in accordance with requirements of the current edition of the WSDOT Standard Specifications for Road, Bridge and Municipal Construction (M 41-10).

2. Material Specifications:
   - Steel shapes & Plates: ASTM A 36
   - Bolts, Nuts & Washers: See Standard Specification Sections 9-16.3(3) & 9-16.3(4)
   - Resin Bonded Anchors (all thread): ASTM A 193 Grade B7, or ASTM A 449

3. All steel plates shall be galvanized in accordance with AASHTO M 111, after fabrication. Bolts and hardware shall be galvanized in accordance with AASHTO M 232.

4. All bolt holes shall be 1/16" (in) larger than the bolt diameter unless otherwise specified. Use template to locate holes in concrete. Bolt lengths not shown shall be sized to provide 1/4" (in) minimum of thread exposed beyond the nut.

5. Remove existing anchors in accordance with Standard Specification Section 8-11.3(1D) (Typical).

6. Resin bonded anchor grouping for a steel plate shall not bridge over a bridge deck expansion joint.

**KEY NOTES**

- Embedment and hole diameter per Manufacturer's recommendation, except embedment shall be 7 7/8" (in) min. ~ See "Hardware Assembly Detail". Do not damage existing reinforcement. Core drilling allowed if existing reinforcement is located prior to drilling. Roughen edges of core drilled holes.

- Center of resin bonded anchors shall be a minimum of 4" (in) from concrete joints and edges.

- Hole locations may be adjusted horizontally to avoid existing reinforcement. Holes shall be 1" (in) from plate and guardrail end section edges and shall be spaced a minimum of 6" (in) apart. Holes may be field drilled, in which case they shall be painted with two coats of paint conforming to Standard Specification Section 9-08.1(2B).
1/16" (IN) DIAMETER HOLES FOR 7/8" (IN) DIAMETER RESIN BONDED ANCHORS (TYPICAL OF 6 PLACES)

ROUND ALL EXTERIOR EDGES WITH A MINIMUM OF 1/8" (IN) RADIUS

STEEL PLATE DETAIL