# Adjusting Guardrail JSP-16-02A

**DRAFTERS NOTES: DO NOT USE THE ADJUSTING GUARDRAIL PAY ITEM AND JSP TO “REPAIR” DAMAGED GUARDRAIL ON THE PROJECT. IF YOU HAVE GUARDRAIL THAT NEEDS EXTENSIVE REPAIR, PROVIDE A SEPARATE PAY ITEM FOR THAT WORK**

**1.0 Description.** This work shall consist of all labor, equipment, and materials to remove, reuse, and install guardrail, and any related appurtenances as shown on the plans or as approved by the engineer.

**1.1** All work shall comply with Sections 202 and 606 except as herein modified.

**1.2 Alternative Methods.** This provision is based upon the block raising method for adjusting guardrail height. The contractor may propose an alternate method for adjusting or retrofitting the guardrail height to the engineer for approval. Any proposed alternative guardrail retrofitting system or adjustment method must meet current crash testing requirements. The lifting of the guardrail posts to the proposed height will not be an allowed alternative.

**2.0 Materials.** All guardrail materials shall conform to Division 1000, Materials Details, and specifically Sec 1040.

**2.1** Replacement materials and components shall conform to the manufacturers latest approved design. All replacement components shall be from the original equipment manufacturer or an approved equal.

**3.0** **Construction Requirements.** The plans specify locations where guardrail shall be adjusted to meet the Standards for height in lieu of replacement. The contractor shall reuse and reinstall the guardrail as shown on the plans as approved by the engineer. All reused sections of guardrail shall be installed in accordance with the applicable portions of the Specifications and Standard Drawings. Existing guardrail shall be adjusted to 29 inches (+0 inches, -1 1/4 inches) measured from a horizontal line extended from the edge of shoulder to the top of the rail. Adjusted guardrail shall not be raised more than 3 inches from its original height. The minimum height of adjusted guardrail shall be 27 ¾ inches as measured to the top of rail.

**3.1** Sections of guardrail identified on the plans may be adjusted vertically up to a 3 inch maximum to conform to height standards. Existing posts shall be drilled or punched with a 13/16 inch hole in order to adjust the guardrail vertically to meet height requirements. The galvanized coating of field drilled or punched posts shall be repaired in accordance with Section 1081.

**DRAFTERS NOTE: IF PLAN SHEET FOR DETAILS OF GUARDRAIL ADJUSTMENT ARE PROVIDED IN THE CONTRACT PLANS ADD THE FOLLOWING SENTENCE AT THE END OF SECTION 3.1 “See contract plans for details.”**

**3.2** Non-wood blocks shall be replaced with wood blocks. Existing wood blocks in satisfactory condition may be reused as approved by the engineer.

**4.0 Basis of Payment.**

**4.1** The accepted quantities for adjusting guardrail, and/or transition sections, complete in place, will be paid for at the contract unit price for:

Item 606-99.03 Adjusting Guardrail Linear Feet

**4.1.1** No direct payment will be made for new guardrail delineators provided on existing guardrail.

**4.1.2** No direct payment will be made for new wood blocks on existing guardrail.

**4.2** Payment will be considered full compensation for all labor, equipment, and material necessary to adjust guardrail to meet Standard height requirements.