

SECTION 00812 - ADJUSTING GUARDRAIL

~~Comply with~~ Section 00812 of the Standard Specifications is replaced with the following Section 00812.

SECTION 00812 - ADJUSTING AND REPAIRING GUARDRAIL

Description

00812.00 Scope - This work consists of adjusting and repairing existing guardrail as shown or directed.

Materials

00812.10 Materials - Furnish replacement metal beam rails, posts, blocks, and hardware meeting the requirements of 00810.10.

Construction

00812.40 General - Install all guardrail components during the same day they are removed. Repair minor damage to galvanizing according to ASTM A 780. Minimum zinc content for Method A2 is 94% on the dry film.

00812.41 Adjusting Guardrail - Adjust existing guardrail by one or both of the following methods:

(a) Posts Remain in Place:

- Remove the existing metal beam rails and blocks in a manner that will not damage galvanizing.
- If required, drill new bolt holes in posts.
- Treat all existing and all new holes with a preservative from the QPL.
- Reinstall the metal beam rails and blocks.
- Perform all other required work as shown.

(b) Raise Posts - Remove and reinstall posts to the required height, or raise them to the required height and work grout or other materials under them in a manner satisfactory to the Engineer.

Adjust existing terminal ends by raising the soil tubes and ground struts to the required height and placing and compacting matching material under the ground struts.

00812.43 Repairing Guardrail - Repair existing guardrail by replacing metal beam rails, posts, blocks, and hardware. Install new metal beam rails, posts, blocks, and hardware according to 00810.42 and 00810.43.

Measurement

00812.80 Measurement - The quantities of work performed under this Section will be determined as follows:

- **Adjusting Guardrail** - Adjusted guardrail will be measured on the length basis, of existing guardrail adjusted. Measurement will be by one of the following methods:
- **Count Method** - The number of standard sections will be counted and multiplied by 12 1/2 feet. For purposes of this subsection, a standard section is defined as 12 1/2 feet of complete guardrail, without regard to the number of existing posts or existing rail elements. Non-standard sections will be measured from center of post to center of post, to the nearest foot, and added to the total calculated length of the standard sections for each run.
- **Length Method** - Measurement will be from center to center of terminal end posts, or as otherwise shown, along the line and grade of each run of each type to the nearest foot.
- **Repairing Guardrail** - Repaired guardrail metal beam rails, posts, and blocks will be measured on the unit basis. For purposes of this subsection, a metal beam rail is defined as 12 1/2 feet long.

Payment

00812.90 Payment - The accepted quantities of work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

| <u>Pay Item</u> | <u>Unit of Measurement</u> |
|---------------------------------|-----------------------------------|
| <u>Adjusting Guardrail.....</u> | <u>Foot</u> |
| <u>Metal Beam Rails</u> | <u>Each</u> |
| <u>Guardrail Posts</u> | <u>Each</u> |
| <u>Guardrail Blocks.....</u> | <u>Each</u> |

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

No separate or additional payment will be made for:

- Hardware
- Adjusting terminal ends
- Replacement metal beam rails, posts, and blocks that are damaged by Contractor equipment or operations.