GUARDRAIL ANCHOR ASSEMBLY DETAILS

LOCATION OF GUARDRAIL ANCHOR AT END POST

END VIEW

PLAN

NOTES (FOR METAL RAILS)

The guardrail anchor assembly shall consist of a 1/4" hold-down plate and 7 1/8" bolts with nuts and washers.

The hold-down plate shall conform to AASHTO M270 Grade 36. After fabrication, the hold-down plate shall be hot-dip galvanized in accordance with ASTM A653.

Bolts shall conform to the requirements of ASTM A325 and nuts shall conform to the requirements of ASTM A193. Bolts, nuts and washers shall be galvanized by the contractor. Stainless steel bolts, nuts and washers may be used as an alternate for the 1/4" galvanized bolts, nuts and washers. The use of this alternate shall be approved by the engineer.

The guardrail anchor assembly is required at all points where approach guardrail is to be attached to the end of the parapet for points of attachment, see sketch.

After installation, the exposed thread of the bolt shall be trimmed with a sharp pointed tool.

The cost of the guardrail anchor assembly with bolts, nuts and washers complete in place shall be included in the various pay items.

The cost of the guardrail anchor assembly with 3/4" bolts, nuts and washers may be used as an alternate for the 1/2" galvanized bolts, nuts and washers. The use of this alternate shall be approved by the engineer.

The vertical reinforcing bars may be shifted slightly in the vertical direction to clear assembly bolts.

The guardrail is to be attached to the end of the parapet. For points of approach guardrail is required at all points where approach guardrail is to be attached to the end of the parapet for points of attachment, see sketch.

The vertical reinforcing bars may be shifted slightly in the vertical direction to clear assembly bolts.

The design is to be reviewed by the engineer.

The cost of the guardrail anchor assembly shall be included in the unit contract price bid for vertical concrete barrier rail.

The vertical reinforcing bars may be shifted slightly in the vertical direction to clear assembly bolts.

The design is to be reviewed by the engineer.

NOTES (FOR VERTICAL CONCRETE BARRIER RAIL)

The guardrail anchor assembly shall consist of a 1/4" hold-down plate and 7 1/8" bolts with nuts and washers.

The hold-down plate shall conform to AASHTO M270 Grade 36. After fabrication, the hold-down plate shall be hot-dip galvanized in accordance with ASTM A653.

Bolts shall conform to the requirements of ASTM A325 and nuts shall conform to the requirements of ASTM A193. Bolts, nuts and washers shall be galvanized by the contractor. Stainless steel bolts, nuts and washers may be used as an alternate for the 1/4" galvanized bolts, nuts and washers. The use of this alternate shall be approved by the engineer.

The guardrail anchor assembly is required at all points where approach guardrail is to be attached to the end of the parapet for points of attachment, see sketch.

After installation, the exposed thread of the bolt shall be trimmed with a sharp pointed tool.

The cost of the guardrail anchor assembly with bolts, nuts and washers complete in place shall be included in the various pay items.

The cost of the guardrail anchor assembly with 3/4" bolts, nuts and washers may be used as an alternate for the 1/2" galvanized bolts, nuts and washers. The use of this alternate shall be approved by the engineer.

The vertical reinforcing bars may be shifted slightly in the vertical direction to clear assembly bolts.

The guardrail is to be attached to the end of the parapet. For points of approach guardrail is required at all points where approach guardrail is to be attached to the end of the parapet for points of attachment, see sketch.

The vertical reinforcing bars may be shifted slightly in the vertical direction to clear assembly bolts.

The design is to be reviewed by the engineer.

The cost of the guardrail anchor assembly shall be included in the unit contract price bid for vertical concrete barrier rail.

The vertical reinforcing bars may be shifted slightly in the vertical direction to clear assembly bolts.

The design is to be reviewed by the engineer.