

PART 1 GENERAL

1.1 Measurement for Payment

- .1 Steel hand railing will be paid for per meter under bid item 9 – Steel Hand Rail - Galvanized and shall be considered payment in full for all associated material delivery, and labour costs.
- .2 work associated with steel hand rail include:
 - Shipping of handrail to the job site.
 - Installation of handrail to the satisfaction of the Departmental representative including the mounting and securing of all fasteners.

1.2 Quality Assurance

- .1 Upon request from Departmental Representative, submit manufacturer's test data.

PART 2 PRODUCTS

2.1 Steel Railing

- .1 Mounting: brackets and flanges, with steel inserts for casting in concrete.
- .2 Exposed Fasteners: flush countersunk screws or bolts; consistent with design of railing.
- .3 Splice Connectors: steel concealed spigots.

2.2 Fabrication

- .1 Fit and shop assemble components in largest practical sizes for delivery to site.
- .2 Fabricate components with joints tightly fitted and secured. Provide spigots and sleeves to accommodate site assembly and installation.
- .3 Provide anchors, plates or angles required for connecting railings to structure.
- .4 Exposed Mechanical Fastenings: flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
 - .1 Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.
 - .2 Continuously seal joined pieces by intermittent welds and plastic filler or continuous welds. Drill condensate drainage holes at bottom of members at locations that will not encourage water intrusion.
 - .3 Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
 - .4 Accurately assemble components to each other and to asphalt structure.
 - .5 Accommodate for expansion and contraction of members and building movement without damage to connections or members.

PART 3 EXECUTION

3.1 Preparation

- .1 Supply items required to be cast into concrete with setting templates, to appropriate locations.

3.2 Installation

- .1 Install components plumb and level.
- .2 Anchor railings to structure with anchors, plates.
- .3 Conceal bolts and screws whenever possible. Where not concealed, use flush countersunk fastenings.
- .4 Assemble with spigots and sleeves to accommodate tight inconspicuous joints and secure installation.

END OF SECTION