


PIPE SPLICE DETAIL


- ${ }^{\text {z/f" Dia }}$
Drain Hole


## RAIL CAP DETAIL


(6) HSS $3.500 \times 0.216$ (Rail Member
(7) HSS $2.375 \times 0.154$ (Rail Member)
(13) HSS $2.875 \times 0.203$ (Sleeve Member)
(14) HSS $1.900 \times 0.145$ (Sleeve Member)

CONSTRUCTION NOTES:
approved by the Engineer when epoxy s.ili-forming
parapet wall.
parapet wa
At
At the
co
See "Materitractur's option anchor bolts may be cast with the parapet.
Panel lengths of railing must be attached to a minimum of three
Tosts except on abutment mingwalls.
Test adhesive anchors in accordance with Item 450.3.3. "Tests", Test
3 anchors per 100 anchors installed. Perform corrective measures to to anchors per 100 anhort installed. Perform corrective measures to
provide adequate capacity if any of the tests do not meet the required
lest load est load. Repair damage from testing as directed
Face of rail) posts and parapet must be ertical transversely unless
or



 must be submitted to the engineer for approval.
Round or chamfer all exposed edges of steel components $1 / 66^{" 1}$
grinding prior to gavvanizing.
Chamfer all exposed concrete corners.
MATERIAL NOTES:
Provide ASTM AS5O Gr B, A1085 or A53 GG B for all HSS.
Galvanize all metal lomponents of steel rail system. Apoly
 over galvanizing, follow the requirements for paint pang galvenized steel in
Item 445, "Gavvanizing" and when field tainting, Item 446 , "Field Cleaning




 bble to achieve a nominal bond strength in tension of a single anchor, Na,
8. 5 kips (edge distance must be accounted forl. Submit signed and sealed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including ho
must be in accordance with Item 450, "Railing"
 ne hardened steel washer (ASTM F436) placed under each hex nut or ASTM
1307 Gr A threaded rods with one tack welded hex nut each and with one $x$
nut with one hardened steel washer (ASTM F430) each. Nuts must

Provide Class "C" concrete. . Provide Class "c" (HPC) if required elsewher | Epoxy co |
| :--- |
| alvanized |

Provide Grade 60 reinforcing steel.
Deformed Weldded Wire Reinforcement (WWR) (ASTM A1064) of equal size


GENERAL NOTES:
Designed according to AASHTO LRFD Specifications.
Do
Dot use this raviling on bridges with expansion joints providing more
than 5 " movement.
Rail anchorane tetails shown on this standard may require modification
ar selet for select structure type
for these modifications.
For all rails, sutumits. erection drawings showing section lengths, splice


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\begin{array}{|l|}
\hline \begin{array}{l}
\text { Cover dimensions are clear dimensions, unless noted otherwise. } \\
\text { Reinforcing bar dimensions shown are out-to-out of bar. }
\end{array} \\
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\end{array}
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SHEET 2 OF 2
Texas Department of Transportation


PEDESTRIAN RAIL

