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J-J

Hook

(typ.)

—1" Ø x 1 3/4" Grade 5 Hex Bolt,

1" Drop-in Anchor in

Field Drilled Hole (3)

# NOTES:







2'-9" 1'-1"

TOP PLATE DETAIL

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1 1/4" x 2 1/2" Slot (typ.)

1 3/4"

4" (typ.)

-PL 1/2" x 3 1/2" x 2'<del>-</del>9"

- 3 1/2"

NOTES:

1. All steel shall be ASTM A-36 hot rolled unless otherwise noted.

2. J-J Hooks are a product of Easi-Set Worldwide. Hooks shall be cast into the barrier in accordance with the manufacturer's recommendations.

(3) The bolt shall be installed snug tight in the cast-in ferrule loop insert. The insert shall have a minimum ultimate shear capacity of 12.1 kips.

(4) Bent plate anchor bracket shall be attached to a concrete surface using one of the following anchor systems. Minimum embedment shall be in accordance with the manufacturer's recommendations, but not less than 4 1/2 in.

•1-in. threaded rod, grade 55 minimum, with washer and nut. Rod shall be installed using an approved epoxy chemical anchor system with a minimum ultimate shear capacity of 21.2 kips: or

•1-in. diameter wedge anchor; or

•1-in. nominal diameter drop-in anchor with 1-in. diameter, grade 5 hex bolt.

(5) When concrete will remain in place after anchoring is removed, the threaded rod anchoring system shall be used. The rod shall be completely removed, the hole shall be blown out to remove any moisture or debris, and the hole completely filled using the same epoxy that was used for anchoring the rod.

6. See E 801-TCCB-05 for bent plate anchor details, top plate washer details, and additional notes.

# INDIANA DEPARTMENT OF TRANSPORTATION

