

NAI

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PROJECT: _____

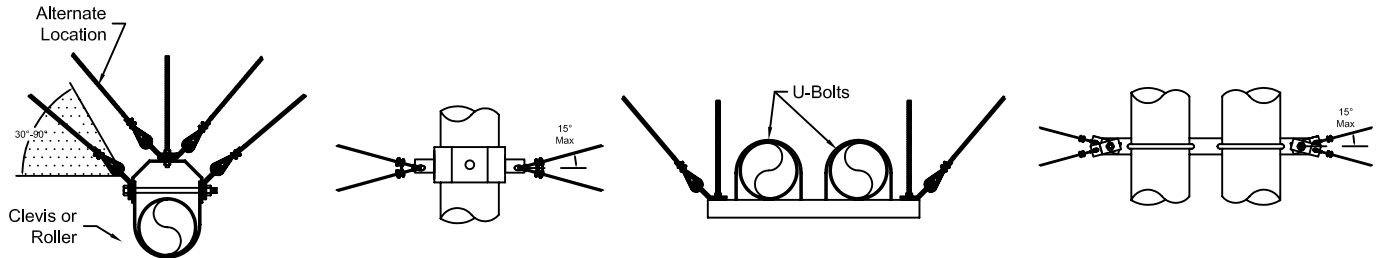
CUSTOMER: _____

4-Cable Seismic Restraint Types 7, 8, & 9

SD PIPE 1-2-3 12/06/06

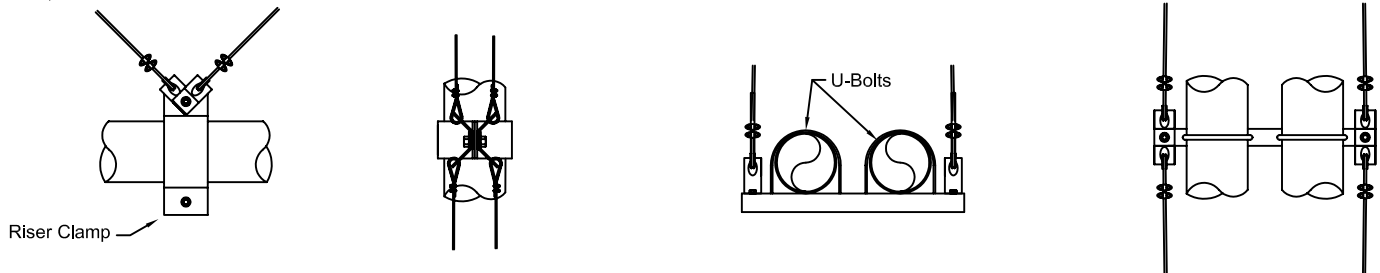
Transverse Types:

7T, 8T & 9T



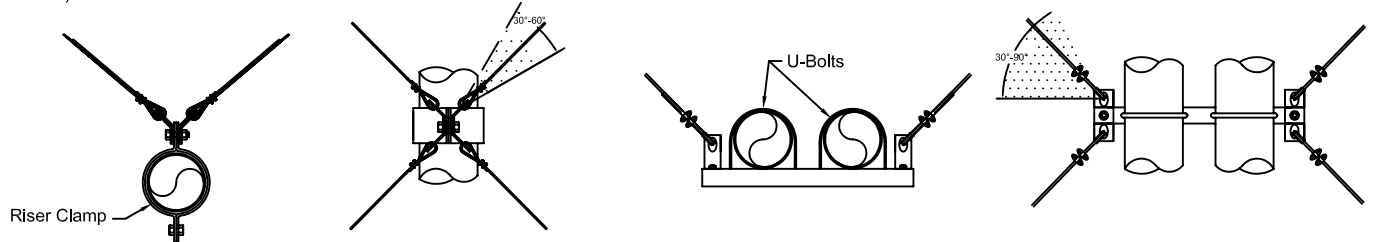
Longitudinal Types:

7L, 8L & 9L

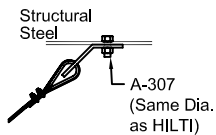


Transverse & Longitudinal Types:

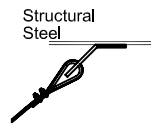
7T/L, 8T/L & 9T/L



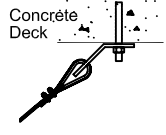
Attachment to Structure Details



Bolted to Steel



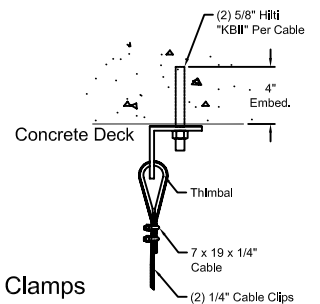
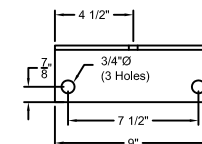
Welded to Steel



Concrete Anchor

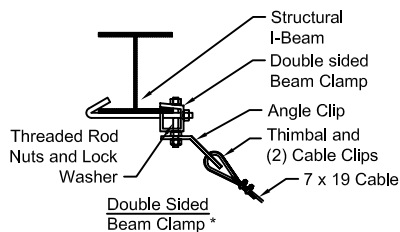
Notes:

- 1) For Restraint Type 9 use (4) L3 x 3 x 9" $\frac{1}{4}$ " Angles at connections to structure instead of 45° angle clips



*** By Others**
Hilti's, Nuts, Bolts,
Washers, & Beam Clamps

Type 9



Concrete Anchors

Type 7 = $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " Embedment

Type 8 = $\frac{5}{8}$ " x 4" Embedment

Type 9 = (2) $\frac{5}{8}$ " x 4" Embedment

BY:

DATE:

DWG#: