

**NOTES:**

- For additional details of Crash Cushion (Type CAT), refer to the manufacturer's installation instructions.
- Crash Cushion (Type CAT) may be used at sites where the sides of the crash cushion would be exposed to opposing directions of travel (bidirectional traffic) or the same direction of travel (unidirectional traffic). For locations where traffic would only be on one side of the CAT system, see Standard Plan A7L4.
- The Crash Cushion Backup is required for all Crash Cushion (Type CAT) installations. This allows the slotted rail elements to slide over the face of the unslotted rail elements.
- For length and type of railing or barrier the crash cushion is attached to, see Project Plans.
- Both of the 0.135" thick slotted rail elements have an attachment plate welded to the back side of one end of each rail element. Attach the welded plate end of the rail elements to Post No.4 prior to splicing the 0.105" thick slotted rail element over the 0.135" thick slotted rail element.
- The 0.105" thick slotted rail elements have four 3/4" diameter holes near one end of the rail elements for the attachment of the spacer channel. Attach this end of the rail elements to Post No.2.
- Attach steel soil plate to steel foundation tube with 5/8"  $\phi$  x 7/16" hex head bolts with hex nuts (3/8" holes in plate and in two sides of tube to accommodate hex bolts).
- The 6" x 8" knockout tube is to be located 4" down from top of wood post. Attach the knockout tube to the post with two 5/8"  $\phi$  lag screws and flat washers.
- Attach strut to Post Nos.1 and 2 foundation tubes with 5/8"  $\phi$  hex head bolts, washers, and hex nuts. Bolts extend through the strut, steel foundation tube, and wood posts.
- Do not attach the rail elements to Post Nos.3, 5 and 6.
- Yellow retroreflective sheeting, as provided by the Crash Cushion (Type CAT) manufacturer, shall be adhered to the rounded end of nose plate. The sheeting shall be consistent with the design pattern and colors of a Type P object marker panel for unidirectional traffic and that of a TYPE R object marker panel for bidirectional traffic. The sheeting shall be positioned on the end of the nose plate so that it is visible to approaching traffic.
- A 6'-0" length steel foundation tube, TS 8" x 6" x 3/8", without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8"  $\phi$  hex head bolt and nut shall be installed in the hole in 6'-0" length tube to keep the wood post from dropping into the tube.

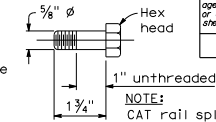
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER  
No. C50200  
Exp. 6-30-07  
CIVIL

May 1, 2006  
PLANS APPROVAL DATE

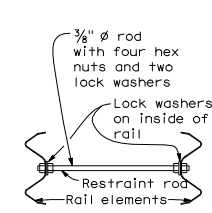
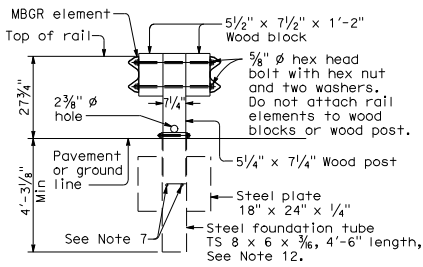
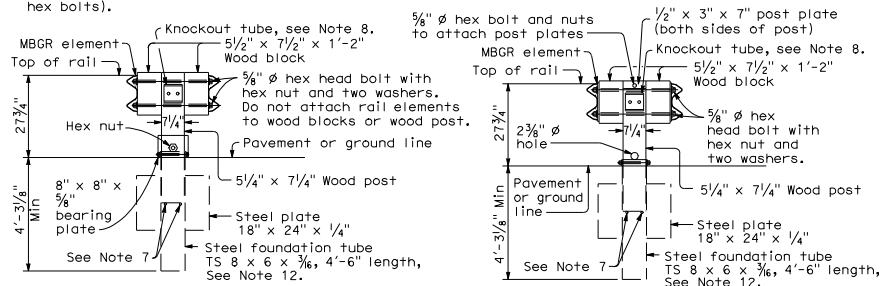
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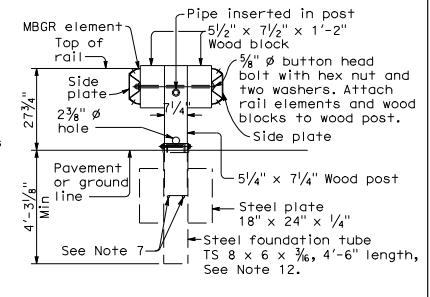


**CAT RAIL SPLICE BOLT**  
Use at Post Nos. 4 and 6

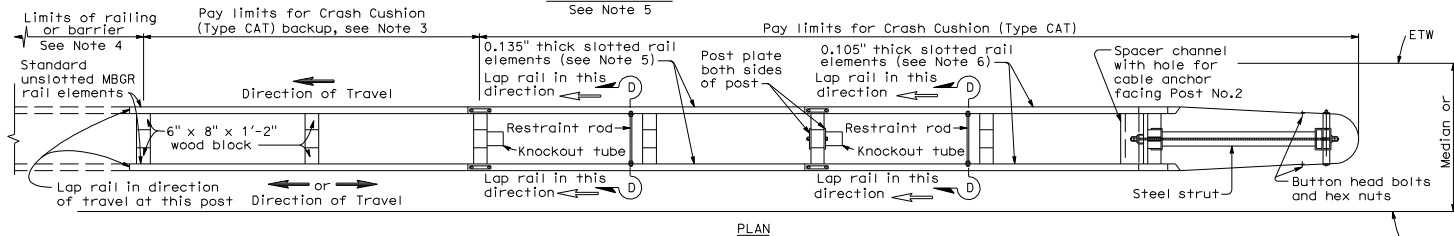
**NOTE:**  
CAT rail splice bolts allow telescoping action of rail sliding on rail.



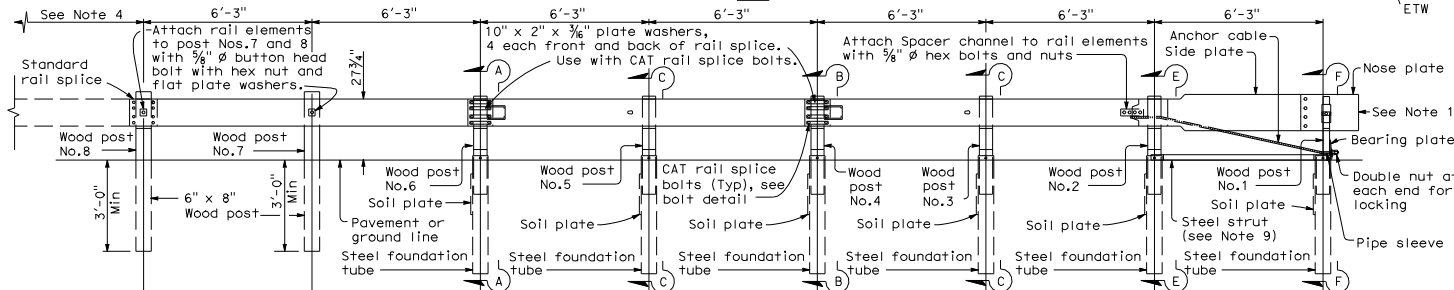
**SECTION D-D**



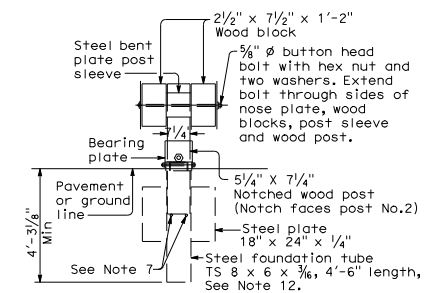
**SECTION E-E**



**PLAN**



**ELEVATION**  
**CRASH CUSHION (TYPE CAT)**  
See Note 2



**SECTION F-F**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CRASH CUSHION (TYPE CAT)**

NO SCALE

**A82A1**