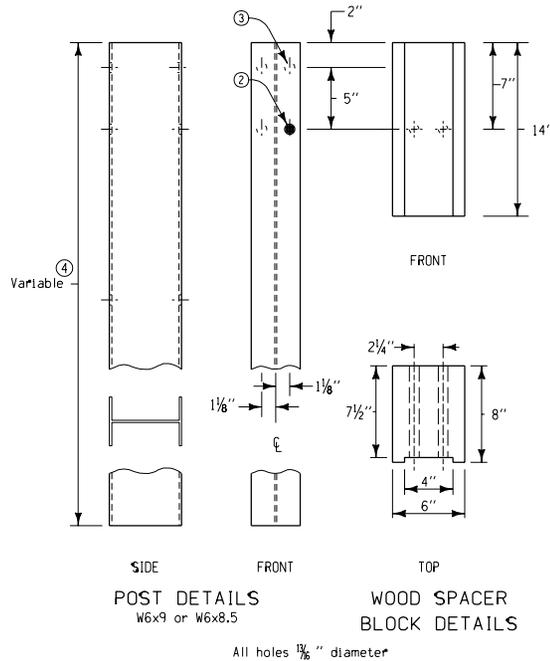


POST DETAILS  
W6x9 or W6x8.5

WOOD SPACER  
BLOCK DETAILS

All holes 1 3/8" diameter

FOR THRIE BEAM RAILING



POST DETAILS  
W6x9 or W6x8.5

WOOD SPACER  
BLOCK DETAILS

All holes 1 3/8" diameter

FOR W-BEAM RAILING

**GENERAL NOTES:**

Posts shall be W150x13.5, cut to length and drilled as indicated hereon and galvanized in accordance with AASHTO M 111.

Beam sections, all necessary hardware, and their installation shall be in accordance with applicable Standard Road Plans and current Standard and Supplemental Specifications.

Steel post use is limited to the following:

As detailed on Standard Road Plan RE-37 for connecting to RCB culvert tops.

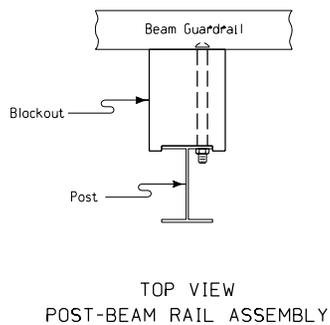
As detailed on Detail Sheet 540-14 for attaching guardrail to intake tops.

Where rock is encountered on normal beam guardrail post installation.

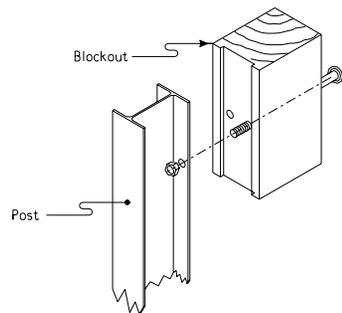
When driving a wood post is not practical.

Steel posts used as part of the systems detailed on Standard Road Plan RE-37 or Detail Sheet 540-14 are considered incidental to the respective bid item for each system.

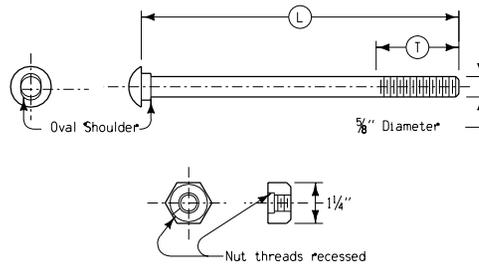
- ① Thrie Beam guardrail, spacer block and post to be attached with two Beam Rail Bolts.
- ② W-Beam guardrail, spacer blocks and post to be attached with one Beam Rail Bolt.
- ③ Optional for handling during galvanizing. All holes 1 3/16" diameter.
- ④ Post length 6'-0" when used in place of wood post on normal beam guardrail installation.
- ⑤ Holes on Standard steel post by supplier.
- ⑥ Holes to be drilled by contractor or supplier to accommodate wood thrie beam blockout. Holes shall be drilled as indicated.



TOP VIEW  
POST-BEAM RAIL ASSEMBLY



ISOMETRIC VIEW  
(Rail and washer not shown; Two bolts required for Thrie Beam)



APPLICATION	T	L
Beam Rail Bolt	2 1/2"	10"

L = Length of Bolt T = Min. Thread  
DETAILS OF HARDWARE

Iowa Department of Transportation  
Highway Division

**STANDARD ROAD PLAN RE-12C**

REVISION: Deleted paragraph from General Notes to clarify beam guardrail bid item.	REVISION NO. 7
<i>Mitchell J. Sullivan</i> 12-05-00	REVISION DATE
APPROVED BY DESIGN METHODS ENGINEER	04-03-01

STEEL GUARDRAIL POST  
AND WOOD BLOCKOUTS