General:		
Applicable systems	OMF, SMF	
Hinge location distance $s_h$	$\frac{d_c}{2} + \frac{d_b}{2}$	
Critical Beam Parameters:		
Maximum depth	W36 and shallower	
Minimum span-to-depth ratio	OMF: 5	
	SMF: 7	
Flange thickness	OMF: 1-1/2"or less	
	SMF: 1" or less	
Permissible material specifications	A572 Grade 50, A992, A913 Grade 50/S75	
Critical Column Parameters:		
Depth	OMF: Not Limited	
	SMF: W12, W14	
Permissible material specifications	A572 Grade 50; A913 Grade 50 and 65; A992	
Beam/Column Relations:		
Panel Zone strength	SMF: Section 3.3.3.2	
Column/beam bending strength	SMF: Section 2.9.1	
Connection Details		
Web connection	Special Connection – See Fig. 3-8	
Continuity plate thickness	Section 3.3.3.1	
Flange welds	welds Section 3.3.2.5	
Welding parameters	Section 3.3.2.4, 3.3.2.5, 3.3.2.6	
Weld access holes	Section. 3.3.2.7	

Table 3-3	Prequalification	Data WUF-W	Connections
	- <b>1</b> · · · · · · · · · ·		

Commentary: Development of connections with unreinforced flanges, suitable for use in Special Moment Frames, has required significant research, resulting in major modifications to the connection commonly in use prior to the 1994 Northridge earthquake. A summary list of revisions to the original prescriptive connection incorporated in this detail is as follows:

- 1. limitations on permitted beam sizes,
- 2. filler metal with appropriate toughness,
- *3. removal of weld backing, back-gouging and addition of a reinforcing fillet weld,*
- 4. use of improved weld-access hole shape and finish,