

Design Review
KABUL UNIVERSITY DINING FACILITY - Truss Beam B20
drawings dated April 16, 2011 and 3/9/11 Calculations
WO-LT-0015

Response Legend
 A - Agree
 D - Disagree
 O - Out of Scope
 AE - Agree with exception

Comment #	Reviewer	Reference	Comment	Response Code	Response	Back-Check
STRUCTURAL COMMENTS - DINING FACILITY BUILDING 28 (Truss Beam B20)						
S1	FRS	Dwg 28-S09 Elevation A	Detail I dimensions do not match detail dimensions on S-11.			
S2	FRS	Dwg 28-S10 Detail T	The bolted angle connection between beams B26 and steel truss can transfer loads to truss through beam deflections from transient loads. It is not clear from the calculations if this has been accommodated in the truss design.			
S3	FRS	Dwg 28-S10 Section 1	Single horizontal bracing angles 5952mm (19.5ft) attached to truss appear to be in excess of the maximum unbraced length limitation for a single 75x75 angle in compression. This brace is assumed to see some compression forces due to seismic loading inducing story drift into the connected column. No calculation for this brace was provided.			
S4	FRS	Dwg 28-S05 Section F	Indicate weld symbol for angle to end plate connection.			
S5	FRS	Dwg 28-S10 Section C, G, Calcs, Specs	Indicates welds to reinforcing bars, specs do not indicate weldable ASTM A706 low-alloy bars. No calculation has been provided for the weld design of the embedment. How has the designer assessed the required weld/strength available? AWS suggests use of the specific bar Mill Certificates to identify chemical composition and formula to estimate carbon content available weld strength.			
S6	FRS	Dwg 28-S10 Section C	The embedded bar weld to plate is indicated as a fillet weld. It is really a flare bevel weld.			
S7	FRS	Dwg 28-S10 Section G	The truss welded end connections rely on a precise fit to the embedded plates and the end struts and there will likely be some gap or not enough available length. What is the intended detail to adjust or set the adjoining peices so they will be indirect contact for welding, which is required for the fillet weld to develop full strength?			
S8	FRS	Calculations	It is not clear if the truss end support conditions are pinned or fixed, the detail connection does not allow relative rotations. Only the two front pages of the STAAD analysis are provided for review.			