

---

**From:** Hudson, Joe  
**Sent:** Monday, June 01, 2009 12:23 PM  
**To:** Fenedick, John (Consultant); Prieto, Jose; MacClellan, Lee  
**Subject:** Additional Vertical Clearance Research  
**Attachments:** Bent Survey Research.xls; Bents 55 and 56 (Possible Critical Vertical Clearances).pdf; Info from Bridge Web-site.pdf

As discussed last Thursday the vertical clearance issue needs to be looked into more detail. I went through the as-builts of the existing viaduct briefly and generally noticed some areas that might have low vertical clearances north of the transition structure. It appeared the vertical clearance was fairly low for the SB movement near the Columbia On-Ramp and the Seneca Off-Ramp that resembled the same pier cross beams as Bent 120.

I also checked out the Bridge and Structures Office Website (the site that Lee told me to visit about a month ago) and it states that a overdeck minimum clearance is 14.25 ft. I am still trying to get in contact with somebody who can give me more details and information about this from the Bridge and Structures Office.

If we move ahead to get additional survey data I would recommend the survey team to acquire the following vertical clearances so that as-built information can be fully verified:

- Survey some bent cross beams near the tie in location of the transition structure.
- Survey some bent cross beams near the Columbia On-Ramp
- Survey some bent cross beams near the the Seneca Off-Ramp
- And possibly verify the clearance between the upper deck side girder and curb which will ultimately define what we are constructing (I measured around 14.36' in InRoads)

I will look into this a bit more and try to get in contact with somebody from Bridge and Structures but I would like somebody to check my conclusions if possible. I have as-builts on a CD or they are on the bridge and structure website.

Joe Hudson  
206-267-6533  
WSDOT - Alaskan Way Viaduct and Seawall Replacement Program