



Oregon

Theodore R. Kulongoski, Governor

Department of Transportation
Technical Services
Roadway Engineering Section
355 Capitol Street NE, Room 222
Salem, OR 97301-3871
Telephone 503-986-3714
FAX 503-986-3749

DATE: May 18, 2009

TO: PLAN HOLDERS

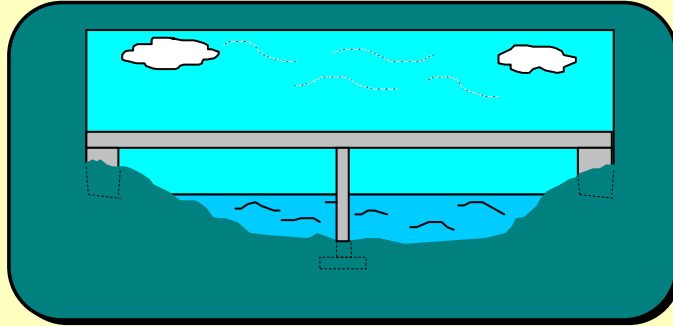
PREPARED BY: Bobby L. Staggs

SUBJECT: US101: Columbia River (Astoria - Megler) Bridge #07949A Section
Oregon Coast Highway
Clatsop County
Bridge Painting Project
(Bids to be opened and read May 21, 2009)
Clarification Letter #1

This letter is in response to inquiries made by several of the Plan Holders regarding conditions at the work site. Attached you will find a report detailing the channel conditions in relation to the structure. This is for information only, and is not to be considered part of the specifications or bidding documents.

BrEase

Bridge Monitoring and Scour Analysis Software



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General Input for Bridge No. 07949A

Bridge Identification	
Bridge Number:	07949A
X-Section Side:	Upstream
Bridge or River Name:	Columbia River
Location:	Hwy 9 MP 0.00
Unit System:	English
User Name:	Brett Sposito

Vertical Alignment	
Alignment Type:	Level Grade
Station :	0+00.00
Elevation :	0.00
Grade:	0.00%

Typical Section Data	
Dist. to Layout Line :	0.00
Structural Depth :	0.00
Cross Slope	0.00%

Bridge Input for Bridge No. 07949A

Bridge Input Data											
Item Name	Station at Layout Line	Bridge Skew	Col. Top Width	Col. Bot. Width	Footing Width	Footing Height	Bottom of Footing	Bottom of Tremie	Pile Tip Elevation	Apply Variable Structural Depth	
										Left Side	Right Side
Bent 1	118+20.8		13.50	13.50	24.00	7.30	-47.0			NO	NO
Bent 2	121+74.0		13.50	14.30	38.00	8.00	-73.0		-141.1	NO	NO
Bent 3	125+28.0		13.50	14.30	40.00	8.00	-79.0		-117.5	NO	NO
Bent 4	128+82.0		13.50	14.30	42.00	8.00	-82.0		-119.2	NO	NO
Bent 5	132+36.0		13.50	14.30	42.00	8.00	-85.0		-130.0	NO	NO
Bent 6	135+90.0		13.50	14.30	40.00	8.00	-83.0		-128.5	NO	NO
Bent 7	139+44.0		13.50	14.30	40.00	8.00	-83.0		-129.8	NO	NO
Bent 8	142+97.0		13.50	14.30	29.00	8.00	-74.0		-118.0	NO	NO
Bent 9	144+48.0		8.50	8.50	24.00	7.30	-70.0		-114.0	NO	NO
Bent 10	145+98.0		8.50	8.50	24.00	7.30	-67.0		-110.5	NO	NO
Bent 11	147+48.0		8.50	8.50	24.00	7.30	-62.0		-104.2	NO	NO
Bent 12	148+98.0		8.50	8.50	24.00	7.30	-58.0		-101.5	NO	NO
Bent 13	150+48.0		8.50	8.50	24.00	7.30	-55.0		-104.5	NO	NO
Bent 14	151+98.0		8.50	8.50	24.00	7.30	-50.0		-98.2	NO	NO
Bent 15	153+48.0		8.50	8.50	24.00	7.30	-48.0		-96.5	NO	NO
Bent 16	154+98.0		8.50	8.50	24.00	7.30	-45.0		-84.8	NO	NO

Substructure Values for Bridge No.

Bent 1 - Plot Values

Cross Sections for Bridge No. 07949A

Channel X-Section		
	Date of Section:	2/27/2006
	Vert. Dist. from Deck:	4.30
+4.3' at transducer		

PLOT Values					
Meas'd From Item	Horizontal Distance	Vertical Distance	Station	Elevation	Comment/Location
1	-110.00	3.00	117+10.8	1.30	
1	-99.00	16.00	117+21.8	-11.70	
1	30.00	44.00	118+50.8	-39.70	
1	50.00	39.00	118+70.8	-34.70	
1	105.00	55.00	119+25.8	-50.70	
1	210.00	60.00	120+30.8	-55.70	
1	380.00	71.00	122+00.8	-66.70	
1	400.00	68.00	122+20.8	-63.70	
1	600.00	75.00	124+20.8	-70.70	
1	650.00	81.00	124+70.8	-76.70	
1	750.00	75.00	125+70.8	-70.70	
1	800.00	82.00	126+20.8	-77.70	
1	920.00	85.00	127+40.8	-80.70	
1	990.00	90.00	128+10.8	-85.70	
1	1135.00	72.00	129+55.8	-67.70	
1	1160.00	82.00	129+80.8	-77.70	
1	1310.00	89.00	131+30.8	-84.70	
1	1370.00	78.00	131+90.8	-73.70	
1	1440.00	84.00	132+60.8	-79.70	
1	1465.00	73.00	132+85.8	-68.70	
1	1505.00	84.00	133+25.8	-79.70	
1	1605.00	84.00	134+25.8	-79.70	
1	1685.00	88.00	135+05.8	-83.70	
1	1745.00	73.00	135+65.8	-68.70	
1	1765.00	76.00	135+85.8	-71.70	
1	2020.00	77.00	138+40.8	-72.70	
1	2120.00	83.00	139+40.8	-78.70	
1	2175.00	71.00	139+95.8	-66.70	
1	2375.00	75.00	141+95.8	-70.70	
1	2435.00	65.00	142+55.8	-60.70	
1	2476.00	68.00	142+96.8	-63.70	
1	2590.00	67.00	144+10.8	-62.70	
1	2670.00	62.00	144+90.8	-57.70	
1	2700.00	63.00	145+20.8	-58.70	
1	2750.00	58.00	145+70.8	-53.70	
1	2777.00	64.00	145+97.8	-59.70	
1	2870.00	57.00	146+90.8	-52.70	
1	2927.00	60.00	147+47.8	-55.70	
1	3000.00	55.00	148+20.8	-50.70	
1	3075.00	58.00	148+95.8	-53.70	
1	3125.00	52.00	149+45.8	-47.70	
1	3225.00	48.00	150+45.8	-43.70	
1	3240.00	51.00	150+60.8	-46.70	
1	3340.00	43.00	151+60.8	-38.70	
1	3370.00	48.00	151+90.8	-43.70	
1	3450.00	42.00	152+70.8	-37.70	

Cross Sections for Bridge No. 07949A

1	3525.00	45.00	153+45.8	-40.70	
1	3670.00	38.00	154+90.8	-33.70	
1	3680.00	42.00	155+00.8	-37.70	

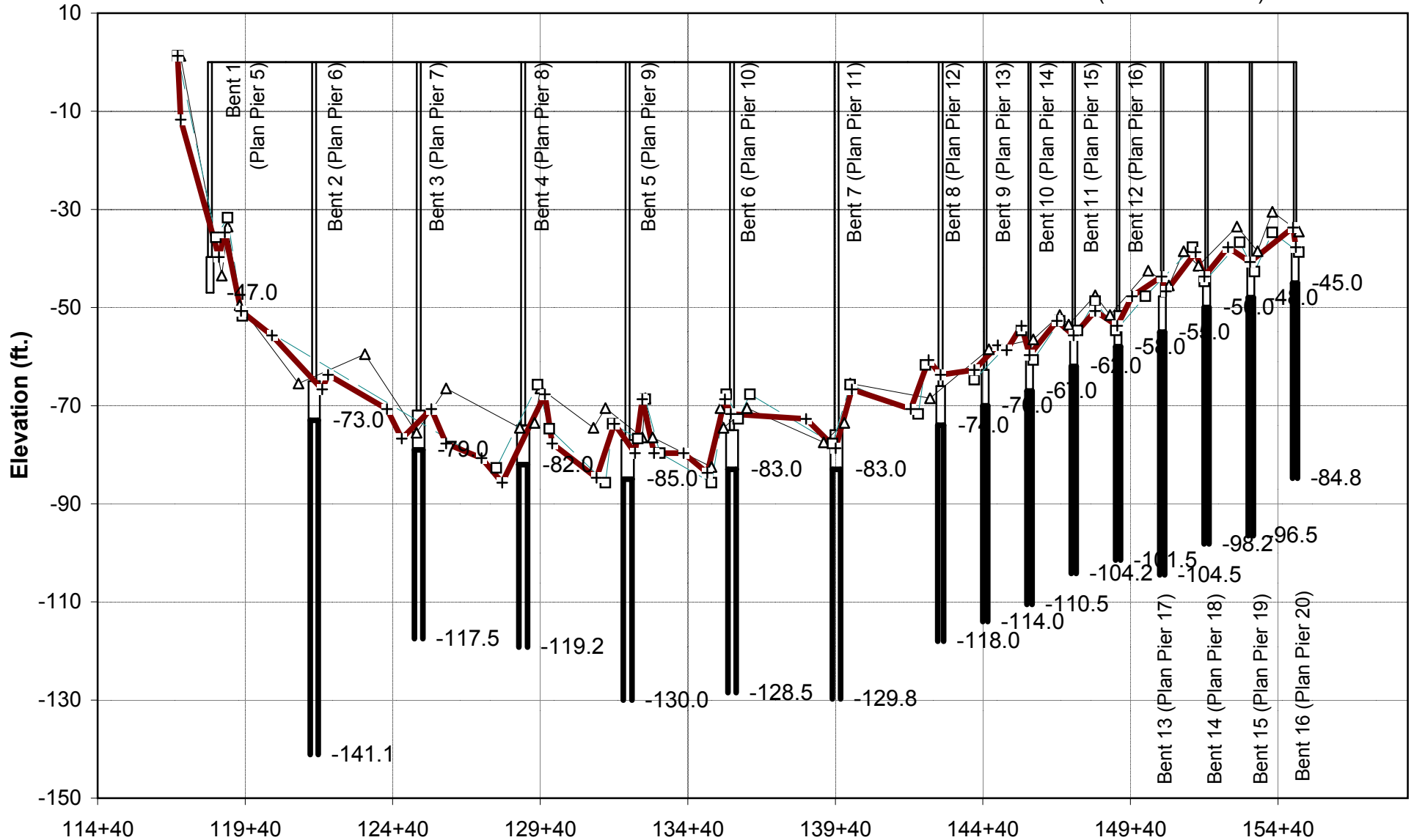
Bridge ID: 07949A

Hwy 9 MP 0.00

transducer el. (2/27/06):
plan pier 5 top of skirt
 $+12.7' - 7.2' - 1.2' = 4.3'$

Columbia River - Upstream

owner: state - region 2
prior notification: 503-325-7222
(ODOT District 1)



foundation type: bent 1: spread footing
bent 2: steel H-pile
bents 3-16: prestressed concrete pile
XC07949A.xls

Station (ft.)

water conditions: 9.5' high tide

— Piles —△— "5/28/87" —□— "6/10/2003" —+— "2/27/2006"

inspection interval: 4 years
By Brett Spósito on 3/20/2006