

From: [Daly, Keith](#)
To: [Peppers, Nicki](#);
Subject: FW: Contract 8078 - Piling Submittals 001
Date: Thursday, January 20, 2011 1:38:11 PM
Attachments: [PilingSubmittal001,1-20-11.pdf](#)

Keith Daly
Assistant Business Manager

[Columbia River Crossing Project | mailto:dalyk@columbiarivercrossing.org](mailto:dalyk@columbiarivercrossing.org)
700 Washington St. Suite 300, Vancouver, WA 98660
office: 360.816.8870 | Office: 503.256.2726 Ext. 8870
Fax: 360.737.0294

From: Vernon Uy [<mailto:vernonu@americanconstco.com>]
Sent: Thursday, January 20, 2011 1:09 PM
To: Green, Frank
Cc: Daly, Keith
Subject: Contract 8078 - Piling Submittals 001

Hi Frank.

Attached you'll find the first set of piling-related submittals for review. This includes:

- Request for Approval of Material (RAM) form for our piling supplier, P.N. Best & Company, Inc.
- Mill Certifications for the 48" OD x 1" wall thick piling
- Mill Certifications for the 24" OD x 1/2" wall thick piling

Hard copies are in the mail. Copies will be sent to:

Columbia River Crossing Project Office
Attention: Frank Green, P.E.
700 Washington Street, Suite 300
Vancouver, WA 98660

Thanks.

Vernon Uy
American Construction Company, Inc.
(425) 870-3217

*** eSafe scanned this email for malicious content ***
*** IMPORTANT: Do not open attachments from unrecognized senders ***



Contract	8078	FA Number	_____	SR	I-5	Date	1/20/11
Section	I-5 COLUMBIA RIVER BRIDGE (WA 0.3 to OR MP 308.0)			County	WA & OR state		
Contractor	American Construction Company, Inc.		Subcontractor	P.N. BEST AND COMPANY, INC.			

For assistance in completing, see Instructions and Example

Bid Item No.	Material or Manufacturer's Product/Type	Name of Manufacturer/Fabricator or Pit Number	Specification Reference	RAM #		
				PE Appl. Code	OSC Appl. Code	File No.
4	FURNISHING & DRIVING STEEL TEST PILES	P.N. Best AND Co., Inc. 6541 Redmond Way #262C Redmond, WA 98052 http://pnbestco.com	SPECIAL PROVISIONS pp. 100			

WSDOT USE

Project Engineer	Date	OSC Materials Engineer	Date
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Approval Action Codes for use by Project Engineer and OSC Materials Laboratory

1. Conditionally Approved: Acceptance based upon 'Satisfactory' Test Report for samples of materials to be incorporated into project.
2. Conditionally Approved: Submit Mfg. Cert. of Compliance for 'Approval' prior to use of material.
3. Conditionally Approved: Submit Catalog Cuts for 'Approval' prior to use of material.
4. Conditionally Approved: Submit Shop Drawings for 'Approval' prior to fabrication of material.
5. Conditionally Approved: Only 'Approved for Shipment' or 'WSDOT Inspected' material shall be used.
6. Conditionally Approved: Submit Materials Certificate of Origin to Project Engineer.
7. Approval Pending: Request Transmitted to OSC Materials Laboratory for Approval Action.
8. Source Approved:
9. Approval Withheld: Submit samples for preliminary evaluation.
10. Approval Withheld:
- 11.

Remarks:

Project Engineer Distribution

- Contractor
- Region Operations Engineer
- Region Materials
- OSC Materials Lab

OSC Materials Engineer Distribution

- General File
- Fabrication Inspection
- Signing Inspection
- Other _____

48 x 1.000

208340



NO.15, YULONG ROAD, YUQI, WUXI, JIANGSU 214183, CHINA
Tel:+86-510-83896197 Fax:+86-510-83889771

MILL TEST CERTIFICATES

Acc to EN 10204-2004 3.1.B



ISO9001:2000

API 5L-0450

P/O No. 04282008-01
Issue lot:
L/C No.: FOBEA1M580255

Manufacturer: JIANGSU YULONG STEEL PIPE CO., LTD
Commodity: PRIME SAW LONGITUDINAL WELDED CARBON STEEL PIPE
Spec: API 5L B X 42 X S2 PSL 2
NACE MR 0175 HARDNESS

No.: YL-435-MTC05
Date: AUG 3, 2008

PAGE 1/1

All other tolerances including dimensions are per API 2B

Item No	Total Quantity		Type [1]	Order Size			Heat No	Mechanical Test																			
				O.D [2]		W.T [3]		L	Y.S [4]		E.L [6]	Hydro-Test		NOT [7]		Hardness Test HV10			T.S of welds N/mm ²	Visual & Camera Ins	Flatten-Test	Bend-test		Impact-test	R.M [10]	Other Test	
	Inch	mm		Sch	mm	FT			MPa	N/mm ²		Pressure	Duration	UT [8]	RT [9]	BH	HAZ	WM				435-738	Face Bend				Root Bend
	PCS	MT		48"	1219.2	1.000		25.40	40.0	353-531	435-738	227	PSI	Sec	OK	OK	145	145	151	635	OK	N/A	OK	OK	98	OK	N/A
YL-435-05	26	237.0368	BBE	48"	1219.2	1.000	25.40	40.0	0871005025	475	535	30	1950	≥10	OK	OK	145	145	151	635	OK	N/A	OK	OK	98	OK	N/A
YL-435-05	24	218.7976	BBE	48"	1219.2	1.000	25.40	40.0	0871005026	465	555	31	1950	≥10	OK	OK	146	147	155	645	OK	N/A	OK	OK	80	OK	N/A
YL-435-05	24	218.7976	BBE	48"	1219.2	1.000	25.40	40.0	0871005024	470	535	29	1950	≥10	OK	OK	146	147	154	573	OK	N/A	OK	OK	118	OK	N/A
YL-435-05	26	237.0368	BBE	48"	1219.2	1.000	25.40	40.0	0871005027	475	530	31	1950	≥10	OK	OK	145	148	155	610	OK	N/A	OK	OK	118	OK	N/A

Chemical Analysis %, on the product

Heat No.	C	Mn	Si	S	P	Cr	Mo	Cu	Ni	V	Nb	Ti	B	V+Nb+Ti Max 0.15%		CEQ Max 0.25%
	≤0.22	≤1.4	-	≤0.015	≤0.025	-	-	-	-	-	-	≤0.04	-	-	-	-
0871005025	0.14	1.37	0.23	0.010	0.017	0.023	0.013	0.017	0.001	0.007	0.042	0.034	0.0001	0.048	0.22	
0871005026	0.14	1.36	0.29	0.007	0.019	0.024	0.012	0.016	0.002	0.002	0.043	0.034	0.0001	0.049	0.22	
0871005024	0.13	1.34	0.30	0.008	0.018	0.025	0.011	0.015	0.001	0.002	0.042	0.035	0.0001	0.049	0.23	
0871005027	0.14	1.36	0.29	0.008	0.018	0.024	0.011	0.014	0.001	0.002	0.044	0.038	0.0001	0.052	0.22	

Remarks:
 [1] TYPE BPE=Black Plain Ends BSE=Black Beveled Ends BTE=Black Threaded Ends
 [2] O.D.=Outside Diameter [7] NDT=Non Destructive Test
 [3] W.T.=Wall Thickness [8] U.T.=Ultrasonic Test
 [4] Y.S.=Yield Strength [9] R.T.=Radiogram Test
 [5] T.S.=Tensile Strength [10] R.M.=Residual Magnetism
 [6] EL=Elongation

Notes:
 1. Orientation of Tensile Test Specimens: □ Longitudinal ■ Transverse
 2. width: ■ 38.1mm □ 25.4mm
 3. Gage Length: 50.8mm
 4. Impact test size: □ 10x10x55mm □ 7.5x10x55mm □ 5x10x55mm
 5. Impact test temperature: N/A

We hereby certify that the products herein have been manufactured and tested in accordance with the above specification and requirements called for the order

Quality Director Cai Jian Feng	Inspection Dept	Inspector/Buyer Representative
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FOR AND ON BEHALF OF
 JIANGSU YULONG STEEL PIPE CO., LTD
唐永清
 Authorized signature

P. 002/003 (FAX) 425 881 2003 P. N. BEST CO JAN-20-2011 (THU) 12:10

24" x 500 wall

MP x 145,039 = PSI

LIAONING LARGE SCALE-STEEL PIPE CO., LTD

MILL TEST CERTIFICATE

COPY

CERTIFICATE No. 015

Description: NEWLY PRODUCED PRIME QUALITY ERW STEEL PIPE

CO. No.: LLS29097097

STANDARD: API 5L

DATE: 2005-3-8

NO.	HEAT	PIECES	SIZE			WEIGHT (kg/m)	TOTAL WEIGHT (MT)	CHEMICAL COMPOSITION (wt %)								BASE METAL MECHANICAL PROPERTIES			
			O.D. (inc)	W.T. (inc)	Length (m)			C	Mn	P	S	Cu	Ni	Cr	Mo	V	Y.S. (MPa)	T.S. (MPa)	ELONGATION (%)
1	08CD5900	502	24	0.5	11.98	122.95	1324.302	0.022	1.42	0.017	0.004	0.010	0.01	0.01	0.01	0.01	477	550	30
2	08CD5903		24	0.5	11.98			0.023	1.40	0.016	0.005	0.010	0.01	0.01	0.01	0.01	433	541	24
3	08AD3671		24	0.5	11.98			0.022	1.40	0.015	0.004	0.010	0.01	0.02	0.01	0.01	433	541	24
4	08AD3670		24	0.5	11.98			0.023	1.42	0.016	0.006	0.010	0.01	0.01	0.01	0.01	477	550	30
5	08AD3672		24	0.5	11.98			0.020	1.42	0.016	0.005	0.010	0.01	0.02	0.01	0.01	433	541	24
6	08CD5901		24	0.5	11.98			0.022	1.43	0.016	0.006	0.010	0.01	0.01	0.01	0.01	477	550	30
7	08CD5904		24	0.5	11.98			0.020	1.41	0.016	0.007	0.020	0.01	0.02	0.01	0.01	477	550	30
NO.	HEAT	WELD JOINT MECHANICAL PROPERTIES			FLATTENING	VISUAL & DIMENSIONS	U.T.	HYDROSTATIC PRESSURE (KPa)	DURATION OF TEST (s)										
		T.S. (MPa)																	
1	08CD5900	555			OK	OK	OK	7200	10										
2	08CD5903	550			OK	OK	OK		10										
3	08AD3671	550			OK	OK	OK		10										
4	08AD3670	555			OK	OK	OK		10										
5	08AD3672	550			OK	OK	OK		10										
6	08CD5901	560			OK	OK	OK		10										
7	08CD5904	555			OK	OK	OK		10										

PIPE HAS BEEN MADE ACCORDING TO ASTM A552 GRADE 3/API 5L AND 100PCT UT ON FIELD FOR EACH HEAT NUMBER.

INSPECTOR:

Handwritten signature

ISSUER:

Handwritten signature