

Submittal Description: Test Bed Certification

Submittal No.:¹ 3

Spec Section: 05150

	Routing	Sent	Received
OWNER: City of Lake Oswego	Contractor/CM	1/9/09	
PROJECT: Lake Oswego Interceptor Sewer	CM/Engineer		1/9/09
CONTRACTOR:	Engineer/CM		
	CM/Contractor		

We are sending you: Attached Product data for information only Submittals for review and comment
 Under separate cover via _____

Remarks: _____

Item	Copies	Date	Section No.	Description	Review action ^a	Reviewer initials	Review comments attached
1	3	1/9/09	05150	Test Bed Certificate	NET	NEB	

^aNote: NET = No exceptions taken; MCN = Make corrections noted; A&R = Amend and resubmit; R = Rejected
 Attach additional sheets if necessary.

Contractor: Certify either A or B

- A. We have verified that the material or equipment contained in this submittal meets all the requirements, including coordination with all related work, specified (no exceptions).
- B. We have verified that the material or equipment contained in this submittal meets all the requirements specified except for the attached deviations.

No. Deviation

Certified by: 
 Contractor's Signature

¹ See paragraph 01300-4.0 A, Transmittal Procedure.

Anderson Calibration & Service, Inc.

202 North San Francisco
Caraway, AR. 72419

Phone: 870-482-1125
Fax: 870-482-1044

Verification Report

in accordance with ASTM Standard Practices E 4-07

Customer: Cascade Rigging, Inc
Address: 9887 SE Mather Road
City, ST, Zip Clackamas, OR 97015

Phone: 503 722-7500
Fax: 503 722-7510

Manufacturer: HB/RTE
Machine Model: 250,000 LB

Serial Number: CR001/853342
Verification Date: 11/5/2008

Range: 2,500 to 25,000 Error

#	Machine	Standard	LBF	%
B	2,500	2,478	22	0.88%
B	5,000	5,026	-26	-0.52%
B	10,000	10,044	-44	-0.44%
B	15,000	15,080	-80	-0.53%
B	20,000	20,076	-76	-0.38%
B	25,000	25,118	-118	-0.47%

Range: 2,500 to 25,000 Error

#	Machine	Standard	LBF	%
B	2,500	2,481	19	0.76%
B	5,000	5,034	-34	-0.68%
B	10,000	10,053	-53	-0.53%
B	15,000	15,072	-72	-0.48%
B	20,000	20,087	-87	-0.44%
B	25,000	25,136	-136	-0.54%

Range: 25,000 to 250,000 Error

#	Machine	Standard	LBF	%
B	25,000	25,118	-118	-0.47%
F	50,000	49,886	114	0.23%
F	100,000	99,724	276	0.28%
F	150,000	149,446	554	0.37%
F	200,000	198,946	1,054	0.53%
F	250,000	248,916	1,084	0.43%

Range: 25,000 to 250,000 Error

#	Machine	Standard	LBF	%
B	25,000	25,136	-136	-0.54%
F	50,000	49,854	146	0.29%
F	100,000	99,756	244	0.24%
F	150,000	149,517	483	0.32%
F	200,000	199,018	982	0.49%
F	250,000	249,053	947	0.38%

Verification in Accordance with ASTM E4-07 +/- 1% and traceable to the National Institute of Standards and Technology (NIST) with a class "A" lower limit of 2,500 lbf to an upper limit of 25,000 lbf for the 25,000 lbf range and a class "A" lower limit of 25,000 lbf to an upper limit of 250,000 lbf for the 250,000 lbf range. The return to zero reading for each range complies with Paragraph 10.5 of E4-07.

O Passed E-4 10 LB Resolutions As Found As Is
 Horizontal Vertical -62 °F Temperature _____ As Calibrated As Left

Elastic Calibration Devices Used

Calibrated by National Standards Testing Laboratory NVLAP Lab Code 200663-0

#	Serial Number	Calibration Date	Operating Mode	"A" Lower Limit	"A" Upper Limit
B	H600147J(High)	12/07/07	Tension	1400 LBF	110000 LBF
F	870120(High)	01/10/08	Tension	19920 LBF	600000 LBF

Calibration data for elastic calibration devices is correct for a temperature of 23 degrees Celsius.

COMMENTS:

Operator: *Dick Anderson*

CASCADE RIGGING INC.

CERTIFICATE OF TEST

Certificate: #

Customer: #

Invoice: #

Customer:

Description of Item:

Description of Test:

Date:

Tested by:

This test was performed at the customer's request and in accordance with the specifications and directions provided by the customer. As such Cascade Rigging makes No warranties, nor assumes any responsibility, whatsoever, for the procedures utilized in performance of this Test or results delivered from this Test.

Rev March 2004.

Anderson Calibration & Service, Inc.
PO Box 339
Caraway, AR 72419

Invoice No. 08121

INVOICE

Customer

Name Cascade Rigging
Address 9887 SE Mather Road
City Clackamas State OR ZIP 97015
Phone 503 722-7510

Date 11/17/2008
PO #: Verbal
Rep Bob
Tech Bill

Qty	Description	Date	TOTAL
1	250k Homebuilt 853342	11/5/2008	\$2,000.00
TOTAL			\$ 2,000.00

Payment Due Upon Receipt

Please Remit To:

Anderson Calibration & Service, Inc.
PO Box 339
Caraway, AR 72419

For Office Use Only

Date Paid _____
Check # _____
Amount: _____

Please call 870-482-1125 for any additional needs...