From:	Vernon Uy
То:	Green, Frank;
cc:	Daly, Keith; Peppers, Nicki;
Subject:	Contract 8078, Air Hose and Air Hose Fittings Submittals
Date:	Thursday, February 03, 2011 10:55:53 AM
Attachments:	CatalogueCutSheet-AirHoseFittings.pdf
	CatalogueCutSheet-AirHoses.pdf
	RAMForm-Airhoses&fittings.pdf
	TransmittalSheet.pdf

Hi Frank.

Attached you'll find the submittals for the <u>air hose and air hose fittings</u> equipment (for the bubble rings): RAM and Catalogue Cut.

Hard copies are in the mail.

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

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

Marine Construction Dredging Pile Driving 1501 Taylor Way • Tacoma, Washington 98421 PHONES: Tacoma (253) 254-0118, Seattle (206) 623-0114. Fax (253) 254-0155 CONTRACTORS LIC NO. 223-01-AM-ER-IC*372 NO. February 3, 2011 DATE



MC 02-11

Columbia River Bridge Temporary

Pile Test Program (#8078)

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Columbia River Crossing Project Office 700 Washington Street, Suite 300 Vancouver, WA 98660

Attn: Frank Green, P.E.

THE FOLLOWING ITEMS ARE BEING SENT:

Herewith Under Separate Cover Direct

х

JOB #:

TITLE:

QUANTITY	DESCRIPTION
4 EA	RAM for air hoses and fittings (from TIMCO, Inc.)
4 EA	Catalogue cut of air hoses and fittings (from TIMCO, Inc.)
· · ·	
· · · · · · · · · · · · · · · · · · ·	

These items are being sent:

Х Х Х X Х Х

Per your request

Please keep us advised of action taken

For you to process

For your inspection and approval For your general information and file

For your approval or corrections

REMARKS:

Please contact us promptly if there is a problem or question

	AMERICAN CONS	TRUCTION COM	ANY, INC.
BY:			γ

Vernon Uy

COPY TO:

Washington State Department of Transportation

Request for Approval of Material

Contract	8078		FA Number		_ SR I-	5 Date	32311
Section 1-5	Columbia River B	ridge (WA	0.3 to OR	MP 308)	Coun V	^{ty} NA <u>AND</u> OR	. states
AMERI	CAN CONSTRUCTION	COMPANY	INC.	Subcontracto			
submitta	n shall be completed I it may be returned fo istance in completin	or information	that was omitte	d.	e at time of	For WSD RAM #	OT Use Only
Bid Item No.	Material or Product/Type	N	lame and Location of Manufacturer or P		Specification Reference	PE/QPL Code	Hdqtr./QPL Code
223	Furnish manifol	d TIM	<u>100, Inc.</u>	· · · ·	SPECIAL PROVISIO	15	
	for both CONFIN		6 Port of T		page 98		
	AND UNCONFINED		oma, WA 98	\$421			
	BUBBLE CURTAIN	>	n, a yang mang mang mang mang mang mang mang m				
					·	 	
	AIR HOSES & FI						
					<u></u>		
				·			
		·····		<u> </u>			
Project Er	ngineer		Date	State Materials	Engineer	L	Date
	Acceptanc	e Action Code	s for use by Proj	ject Engineer ar	nd State Materia	Is Laboratory	
1 .			n 'Satisfactory' Test ce for 'Acceptance' p			incorporated into p	project.
3. Accep	otance Criteria: Catalo	g Cuts for 'Accer	otance' prior to use o for 'Approval' prior t	of material. Catalog	g Cut Approved	Yes No	
5 Accep	tance Criteria: Only 7	pproved for Ship	oment', 'WSDOT Ins	pected' or 'Fabricat	tion Approved Dec	al' material shall be	used.
			aterials Origin to Pro State Materials Lab				
8. Source	e Approved:						
	oval Withheld: Submit	samples for prel	iminary evaluation.				
	laneous Acceptance Crite	ia.					· · · ·
Remarks	S.						
	• •						
	ngineer Distribution		<u> </u>		Materials Engin		
Contra	actor n Operations Engineer	Region Ma	rials Lab	∐ Ge ⊡ Ot	eneral File her		Inspection
Fabrica	ation Inspection	M/S 47365					
DOT Form 3 Revised	150-071 EF d 12/2008						

02/03/	2011	08:01
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02/03/2011	08:01	253-627-3780	TIMCO	INC	PAGE 02/04
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		Lener, we wante fan			
AIR &	URPOSE				
	Purpose	HORIZON®		and the second secon	
Heavy D	uly	TORIZON			
Push-on					
		Product Specifications			
:		Product Specifications		· · · · · · · · · · · · · · · · · · ·	
:	· . · · .	APPLICATION:		r and water hose, Horizon® is for a wide range	of industrial construction
•		CONSTRUCTION	and agricultural a	applications. Available in 200, 250, and 300 P	SI working pressures.
		TUBE:	Versigard [®] synthe	tic rubber, RMA Class C (Limited Oil Resistan	ce)
•		COVER:		r, Green or Blue Versigard® synthetic rubber	
		REINFORCEMENT:	Spiral synthetic ya		
• -		TEMPERATURE:	-40°F to 190°F (-4(· · ·
		PACKAGING:	3/16"-3/4"		
			1"	500' reels, maximum 3 pieces, 50' increm 450' reels, maximum 3 pieces, 50' increm	nonte
			1¼" 1½"	400' reels, maximum 3 pieces, 50' increm 300' reels, maximum 3 pieces, 50' increm	oonte
	16		2" Coupled generables	ZULI Carons maximum 2 piezes doting	
	1.1.1.1.1.1.1.1			s available in 174", 378", 172", and 374" in re-	d.
· · · · ·		COUPLINGS:	Contact fitting man	utacturer for proper fitting recommendation a	nd coupling procedure.
· · · · · · · · · · · · · · · · · · ·		BRANDING;	Example: 1/2" Horiz	on® Goodyear® 300 psi WP.	
· · ·	· · ·	NON-STOCK/SIZES:	Refer to page 303 fo	or special production run minimum requireme	ata
· · · ·		ORDER CODES;	See next page.	· · · ·	
· .		Koriasa-IT :			
		Verisgard™ is a registered tradn	nark of The Goodye	ar Tire & Rubber Company.	
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] International Content of the Content TIMCO INC

PAGE 03/04

ANR SAMULEH POUR DOG

	HORIZON®	200	ORDE		035 (2" black) 011 (red)	536-040 (2" r 569-038 (yelf		69-009 (black) 69-547 (blue)
		D	NOM	. OD	MAX	WP	WE	IGHT
	in.	ሰግሰዊ.	iŋ.	mm.	psi	Mpa	lb./ft.	kg./m
	3/16	4.8	0.44	11.2	200	1.38	0,08	0,12
3	1/4	6.4	0.50	12.7	200	1 38	0.09	0.13
	5/16	7.9	0.58	14.7	200	1.38	Q.12	0.18
	3/8		0.67	17,0		(), 1.38 () (<u>:</u> 0.15	0.22
	1/2	12.7 ·	0.81	20.6	200	1:38	0.20	0,30
	5/8	15,9	0.97	24.6	200	1.38	0.27	0,40
	3/4	19.1	1.12	28.5	200	1.38	0.34	0.51
		25:4	1.44	36.8	200	1,38	0.54	0.80
	1¼	31.8	1.73	44.0	200	1.38	0.75	1.12
ć	() () 1/2	38.1%	1.98	50.3	200	1.38	0.86	1.28
	2	50.8	2,50	63.5	200	1,38	1.16	1.73

HORIZON [®] 250				010 (black) 506 (green)	569-012 (red) 569-548 (blue)	56	569-039 (yellow)	
	D	NON	K OD 🦷	MAX	WP	WE	GHT	
in,	רח רוז.	in.	mm.	psi	Mpa	lb./ft.	kg./m	
1/4	6.4	0.53	13.5	250	1.72	0.11	0.16	
5/16	7.9	0,59	15.0	250	1.72	0,13	0.19	
3/8	9.5	0.70	17.8	250	1.72	0.17	0.25	
1/2	12.7	ै ं0.84	21.3	250	1.72	0,22	0.33	
5/8	15.9	0.98	24.9	250	1.72	0.27	0.40	
3/4	943. 19,1 \\%	ð 1/ 1 4		250	1.72	035	0.52	

HORIZON®	300	ORDE	R CODES: 569-8	i16 (yellow)	569-557 (red)	56	569–560 (green)	
	D	NON	L OD	MAX	WP	WE	GHT	
in,	mm.	in.	mm.	psi	Мра	lb./ft.	kg./m	
1/4 3/8	6.4 9.6	0.53 0.70	13.5 17.8	300 300	2.07	0.10	0.15	
1/2	12.7	0.84	21.3	300	2.07	0.22	0.33	
1	19.1 25.4	1,48	29:2 37.3	300 300	2.07 2.07	0.37 0.58	0,55 0.86	

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

> CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FCOD Transfer Washolowa

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER Discharge Sucton & Discharge Washdown

WELDING

COUPLING SYSTEMS



13



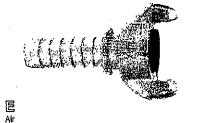
Air Fittings

Air King Universal Couplings

Hose Ends

may use with Air King femules





0	Iron		Opt	Brass		Opt	316 Stainless Steel	
Şize	Part #			Price/E *	Qty	Part #	Price/E *	
3/8"	AMH	\$9.80	25	ABH	\$31.30	25	RAMH	\$68.95
1/2"	AM1	6.20	50	AB1 1	22.30	50	RAM1	55.20
5/8"	AM5	9.15	50	AB5	23.60	50		
3/4"	AM6	6.25	50	AB6 1	23.05	50	RAM6	46.60
1"	AM11	8.20	50	AB11 1	29.65	50	RAM11	51.55

Male NPT Ends

	Iron		Öpt	Br	้อรร	Opt	316 Stainless Steel	
Size	Part #	Price/E *	Qty	Part #	Price/E *	Qty	Part #	Price/E *
· 1/4" 3/8" 1/2" 3/4"	AMB1 AMB AM2 AM7 AM12	\$9.70 8.35 7.25 7.45 8,25	25 25 50 50 50	ABB1 ABB AB2 ¹ AB7 ¹ AB12 ¹	\$24.15 29.60 24.30 24.05 24.80	25 25 50 50 50	RAMB RAM2 RAM7 RAM12	\$77,00 54.00 47.90 51,55

Female NPT Ends

	Iron		Opt	Brass		Opt	316 Stainless Steel	
Size	Part #	Price/E *	Qty	Part #	Price/E *	Qty	Part #	Price/E *
1/4"	AMC1	\$8,65	25	ABC1	\$26.15	25		
3/8"	AMC	8.35	25	ABC	25,75	25	RAMC	\$73.00
1/2"	AM3	7.65	50	AB3 '	20.50	50	RAM3	55.20
3/4"	AM8	7.35	60	AB\$ 1	24.30	50	RAM8	47.90
1"	AM13	9,30	50	AB131	24.80	50	RAM13	54.00

Blank Ends

Triple Connections

Price/E *

\$21,60

Iron

Part #

AM10

Iron		Opt	Brass		Opt	316 Stainless Steel	
Part #	Price/E *	Qty	Part #	Price/E *	Oty	Part#	Price/E *
AMO	\$11.90	25	AB0 '	\$24.15	25	RAMO	\$50.30

Opt

Qty

25

Brass

Part #

AB10 1

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global investment cast

Prices for Universal couplings listed above include safety clip (not pictured).

The use of an Air King safety clip or wire type retainer is necessary to ensure Air King universal couplings will not become accidentally disconnected. This guarantees the fittings are properly connected because the safety pin will not ALERT, go through the holes in mating flanges until couplings are locked in place. Only one Air King safety clip or wire type retainer is required for each Air King universal coupling.

To provide protection against coupling breakage and related hazards, Dixon recommends the use of a whip hose. See SAFEIY page 6 for Whip Hose safety information.

Air King is rated to 150 PSI at ambient temperature (70°F).

Standard Air King fittings come with AWR4 rubber washers.

Air King meets pressure requirements as specified in A-A-59553 commercial item description superseding Mil Spec.WWC-633D.



Air King is for air and water service only Warning: Never use any Air King coupling for steam service! None of Dixon's catalog information is to be interpreted to mean that this type of coupling is suitable for use on steam hose.

DP1410



Opt

Qty

25

Price/É 1

\$49.50