



REQUEST FOR QUOTATION

<p>Contact person/Telephone Larry Waxman/201-395-3451</p>	<p>Collective# 0000034796 Bid Due Date 10/08/2013 Bids must be received no later than 11:00 AM on the above Bid Due Date.</p> <p>Deliver Goods/Services To: Path Harrison Stockroom Foot of Cape May St. HARRISON NJ 07029</p>
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Quantity	Description	Unit Price	Total
	<p style="text-align: center;">USA</p> <p>PATH PA-4 RAILCAR PART CHEVRON PER DRAWING AND SPECIFICATION. FURNISH AND DELIVER.</p> <p>IN THE EVENT OF AN ORDER ADVISE DELIVERY IN DAYS _____ A.R.O.</p> <p>QUOTE FOB DELIVERED PRICING TO PATH, HARRISON NJ.</p> <p>QUESTIONS CONTACT LARRY WAXMAN. TEL 201 395 3451 OR EMAIL Lwaxman@panynj.gov -----</p> <p>1. Bidder's Prerequisites Only Bidders who can comply with the prerequisites specified in Part II hereof at the time of the submission of its bid should submit bids, as only bids submitted by such Bidders will be considered. By furnishing this document to the Bidder, the Port Authority has not made a determination that the Bidder has met the prerequisites or has otherwise been deemed qualified to perform the services. A determination that a Bidder has met the prerequisites is no assurance that it will be deemed qualified in connection with other bid requirements included herein.</p> <p>2. Specific Bidder's Prerequisites MINIMUM OF FIVE (5)</p>		
	PLEASE QUOTE FULLY DELIVERED PRICES	PAYMENT TERMS	Total Delivered Price

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number _____ Date _____
Fax Number _____
Federal Taxpayer ID _____

Bidder
Must
Sign
In
Two
Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed _____ Date _____
Firm Name _____



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10/08/2013

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	<p>YEARS EXPERIENCE SUPPLYING CHEVRONS TO THE RAILROAD/TRANSIT INDUSTRY.</p> <p>a. The Bidder shall have had at least FIVE (5) year(s) of continuous experience immediately prior to the date of submission of its bid in the management and operation of and during that time shall have actually engaged in providing said or such services to commercial or industrial accounts under contract. The Bidder may fulfill this prerequisite if the Bidder can demonstrate to the satisfaction of the Port Authority that the persons or entities owning and controlling the Bidder have had a cumulative total of at least FIVE (5) year(s) of experience immediately prior to the date of the submission of its bid in the management and operation of a business actually engaged in providing these services to commercial or industrial accounts under contract during that time, or have owned and controlled other entities which have actually engaged in providing the above described services during that time period.</p> <p>b. During the time period stated in (a) above, the Bidder, or persons or entities owning and controlling the Bidder, shall have performed or be performing under at least ONE (1) contract(s) requiring similar services of similar scope to those required under this Contract. c. In the event a bid is submitted by a joint venture the foregoing prerequisites will be considered with respect to such Bid as follows: The prerequisite in subparagraph (a) and (b) above, will be</p>				
	<p>PLEASE QUOTE FULLY DELIVERED PRICES</p>	<p>PAYMENT TERMS</p>			
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	<p>considered satisfied if the joint venture itself, or any of its participants individually, can meet the requirements. If a joint venture which has not been established as a distinct legal entity submits a bid, it and all participants in the joint venture shall be bound jointly and severally and each such participant in the joint venture shall execute the bid and do each act and thing required by this Invitation for Bid. On the original bid and wherever else the Bidder's name would appear, the name of the joint venture Bidder should appear if the joint venture is a distinct legal entity. If the Bidder is a common law joint venture, the names of all participants should be listed followed by the words "acting jointly and severally". All joint venture Bidders must provide documentation of their legal status.</p> <p>d. Proof that the above prerequisites are met should be submitted with the bid.</p>				
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 Firm Name _____



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Bid Due Date
10/08/2013

Quantity	Description	Unit Price		Total	
	<p>This is a Formal Bid Invitation Mail Sealed Bids to:</p> <p>The Port Authority of NY & NJ Attn: Bid Custodian Procurement Department 2 Montgomery Street, 3rd Floor Jersey City, NJ 07302</p> <p>by the date and time listed above, where it will be publicly opened and read.</p> <p>Bids are only accepted Monday through Friday, excluding Port Authority holidays, between the hours of 8 A.M. & 5 P.M., via regular mail, express delivery service or hand delivery.</p> <p>If you do not use or have an envelope provided, you must clearly mark the outside envelope/package with 'BID ENCLOSED' and show the company name, address, as well as Bid number and Due date as stated on this bid document.</p> <p>A valid photo id is required to gain access into the building, to attend the bid opening or hand deliver a bid.</p>				
320 EA	077139				
	<p>PLEASE QUOTE FULLY DELIVERED PRICES</p>			<p>Total Delivered Price</p>	

PAYMENT TERMS

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Fax Number _____
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Signed _____ Date _____
Firm Name _____



REQUEST FOR QUOTATION

Bid Due Date
10/08/2013

Quantity	Description	Unit Price		Total	
	<p>CHEVRON,PA 4 TRUCK,KHI DRAWING #2P104958-3166-C, AND KHI SPECIFICATION,DECEMBER 18,1986,REVISION A.</p> <p>VENDOR MUST SUPPLY CERTIFICATION OF MATERIAL AT THE TIME OF DELIVERY MEETING DRAWING AND SPECIFICATIONS.</p> <p>NOTE CHANGE TO SPECIFICATIONS: SEE PAGE 2 PARAGRAPH 6. COATING. DELETE: PAN-J-2024B. INSERT: BENJAMIN MOORE SUPER SPEC HP DTM ALKYD GLOSS ENAMEL,COLOR BLACK.</p>				
	<p>PLEASE QUOTE FULLY DELIVERED PRICES</p>	<p>PAYMENT TERMS</p>			
		<p>Total Delivered Price</p>			

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Signed _____ Date _____
 Firm Name _____

TERMS AND CONDITIONS

1. The Port Authority (PA) reserves the right to request information relating to seller's responsibility, experience and capability to perform the work.
2. Unless otherwise provided, complete shipment of all items must be in one delivery FOB delivery point. Payment will not be made on partial deliveries unless authorized in advance by the party to be charged and the discount, if any, will be taken on the total order.
3. PA payment terms are net 30 days. Cash discounts for prompt payment of invoices may be taken but will not be considered in determining award, except in the case of tie bids.
4. Separate unit and total FOB delivered prices must be shown.
5. Sales to the PA and to PATH are currently exempt from New York and New Jersey State and local taxes and generally from federal taxation. The seller certifies that there are no federal, state, municipal or any other taxes included in the prices shown hereon.
6. The PA shall have the absolute right to reject any or all proposals or to accept any proposal in whole or part and to waive defects in proposals.
7. Unless the phrase "no substitute" is indicated, bidder may offer alternate manufacturer / brands, which shall be subject to Port Authority approval. Please indicate details of product being offered with bid.
8. Acceptance of seller's offer will be only by Purchase Order Form signed by the PA. No change shall be made in the agreement except in writing.
9. If the seller fails to perform in accordance with the terms of this purchase order, the PA may obtain the goods or services from another contractor and charge the seller the difference in price, if any, a reletting cost of \$100, plus any other damages to the PA.
10. Upon request, sellers are encouraged to extend the terms and conditions of any terms agreement with the PA to other government and quasi-government entities by separate agreement.
11. By signing this quotation or bid, the seller certifies to all statements on Form PA 3764A regarding non-collusive bidding; compliance with the PA Code of Ethics; and the existence of investigations, indictments, convictions, suspensions, terminations, debarments and other stated occurrences to assist the PA in determining whether there are integrity issues which would prevent award of the contract to the seller. The PA has adopted a policy set forth in full on PA 3764A, that it will honor a determination by an agency of the State of New York or New Jersey that a bidder is not eligible to bid on or be awarded public contracts because the bidder has been determined to have engaged in illegal or dishonest conduct or to have violated prevailing wage legislation. The Terms and Conditions of PA 3764A apply to this order. A copy can be obtained by calling (201) 395-3405 or at <http://www.panynj.gov/business-opportunities/become-vendor.html>
12. The vendor may subcontract the services or use a supplier for the furnishing of materials required hereunder to such persons or entities as the Manager, Purchasing Services may from time to time expressly approve in writing. All further subcontracting shall also be subject to such approval.
13. The successful bidder (vendor) shall not issue nor permit to be issued any press release, advertisement, or literature of any kind, which refers to the Port Authority or that goods will be, are being or have been provided to it and/or that services will be, are being or have been performed for it in connection with this Agreement, unless the vendor first obtains the written approval of the Port Authority. Such approval may be withheld if for any reason the Port Authority believes that the publication of such information would be harmful to the public interest or is in any way undesirable.

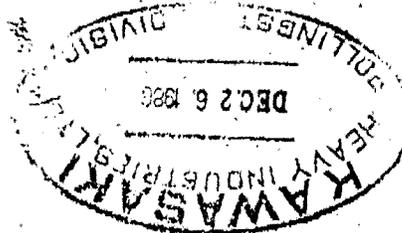


BID # 34796

PORT AUTHORITY -
TRANS-HUDSON CORPORATION

THE PA-4 RAIL RAPID TRANSIT VEHICLES

PA-4 CHEVRON SPRING



~~NI-NT 1821~~

~~NI-NT 1822~~

NI-NT 1823

DELIVERY	ORDER No. R142M30	KAWASAKI HEAVY INDUSTRIES, LTD.
	NOTES	
REVISION	A : Dec. 18, 1986	MANAGER <i>A. Yamamoto</i>
		ASSISTANT MANAGER <i>S. Sakiya</i>
		CHECKED BY <i>Y. Oku</i>
ISSUE		<i>T. Shima</i>
	DATE Feb. 1, 1986	DRAWING No.

 TOKAI RUBBER
INDUSTRIES, LTD.

3600, Kita Toyama, Komaki City, Aichi Pref. 485 JAPAN
CABLE ADDRESS: TOKAIGOMU KOMAKI
TELEX: 4485-991 TOKAIK J
PHONE: 0568-77-2121

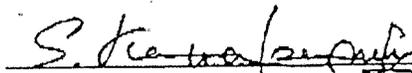
OVERSEAS DIVISION (TOKYO OFFICE)
TELEX: 242-2967 TOKAIT J
PHONE: 03-585-1821

OUR REF. No. 0001

DATE SEP.28. 1985

Specifications for the Chevron Spring

TOKAI RUBBER INDUSTRIES, LTD.



S. KAWAKAMI

General Manager
Industrial Products Technical Dept.
Technical and Engineering Division.

Specifications for the Chevron Spring

1. The following specifications are applied on the Chevron Spring for PATH.

2. Type of Chevron Springs:

- Type 1 : Used for PA3
- Type 2 : Used for PA4

3. Configuration and dimensions:

The configuration and dimensions of the Chevron Springs are to be as illustrated in the Drawing **△** 2P104958 " CHEVRON SPRING ".

4. Materials:

- 1. Rubber materials should conform to natural rubbers specified in attached sheet 1.
- 2. Metallic materials should conform to those specified in the drawings.

5. Tests:

5-1 Test products for Type Test:

The following tests are to be given to the test products for Type Test and test data are to be submitted, before first delivery of the product.

Test item	:	Test method and conditions
A : Test for Product.		
1. Vertical stiffness Test.	:	As per attached sheet 2.
2. Lateral stiffness Test.	:	As per attached sheet 3.
3. Longitudinal stiffness Test.	:	As per attached sheet 4.
4. Endurance Test	:	As per attached sheet 5.
5. Bonding Test	:	As per attached sheet 6.
6. Dimensional measurement Test.	:	As per Drawing △ 2P104958
B : Tests for rubber materials by using thin test pieces.		
1. Tests are to be given on all physical properties shown in attached sheet 1	:	As per attached sheet 1.

5-2. Tests and Inspections:

The following inspection is to be given before the products are shipped to purchaser.

Inspection are to be given in the present of your inspector, if necessary.

Test item	: Test method and conditions	: Number of tests
A :Test for Product.		
1. Vertical stiffness Test	: As per attached sheet 2.	: All product.
2. Bonding Test	: As per attached sheet 6.	: All product.
3. Dimensional measurement Test	: As per attached sheet 7.	: All product.

6. Coating : SEE NOTE ON "REQUEST FOR QUOTATION" FORM.

INSERT: BENJAMIN MOORE SUPER SPEC HP DTM ALKYD GLOSS ENAMEL, COLOR BLACK.

7. Marking and packing.

- 1) Manufacturer's symbol marks and manufacturing date are to be placed in such position as specified in the drawings.
- 2) The Products are to be packed in a box on which Products name, drawing number, and Manufacturer's name are identified.

Attached sheet 1

Rubber Material Properties

	Physical Property	ASTM Test Method Applied	Performance Requirement Value
1	Hardness	D-2240	Durometer A 45 to 75
2	Tensile Strength	D-412	1500psi (105.5kg/cm ²), minimum
3	Ultimate Elongation	D-412	300 percent, minimum
4	Ozone Resistance	D-1149 with the test conditions as shown below : temperature :40±1 °C time :70hours Ozone concentration :50±5pphm elongation :20%	No cracks
5	Oil Aging Resistance	D-471 with the test conditions as shown below : temperature :23±2 °C time :70hours oil :ASTM oil No.3	+80 percent change in volume, maximum
6	Brittleness at -40 °C (-40 F)	D-746 -40°C(-40 F)	No cracks
7	Permanent Set Resistance 22hours at 70 °C(158F)	D-395 (Method B) with the test conditions as shown below : temperature :70±1 °C time :22hours rate of compression :25%	25 Percent compression set, maximum
8	Tear Resistance	D-624 With Die C test specimens	200pounds/inch (90kg/25.4mm), minimum
9	Flame resistance	Not applied	Must not propagate flame or exhibit flame dripping

Attached sheet 2

A description of the vertical-stiffness test procedure.

Vertical stiffness (P)
Axial direction (Z)

Fig 1

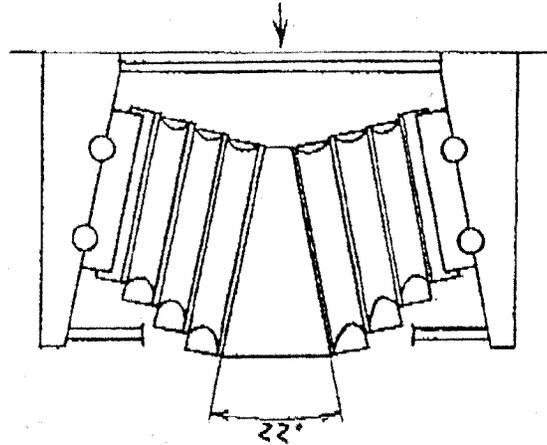
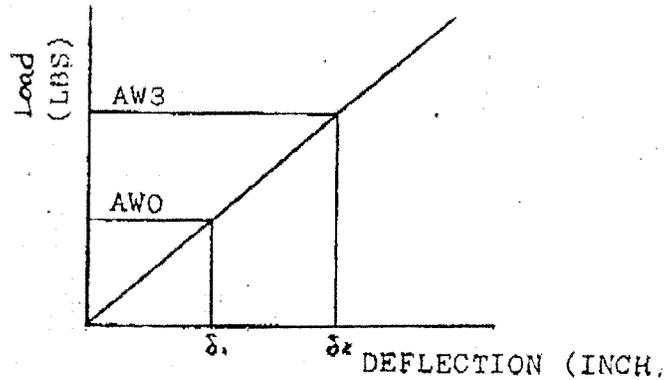


Fig 2



The vertical load (AW4×1.3) is applied twice on the Chevron Spring from zero, while dialgauge set at zero. Then, deflection(δ_1, δ_2) is measured at AW0, AW3 while the load is being increasingly applied. Calculate the value of spring stiffness (Kv) in accordance with the following formula:

$$KV = \frac{AW3 - AW0}{\delta_2 - \delta_1} \quad (\text{Room temperature : APPROX. } 68^\circ \text{ F (} 20^\circ \text{ C))}$$

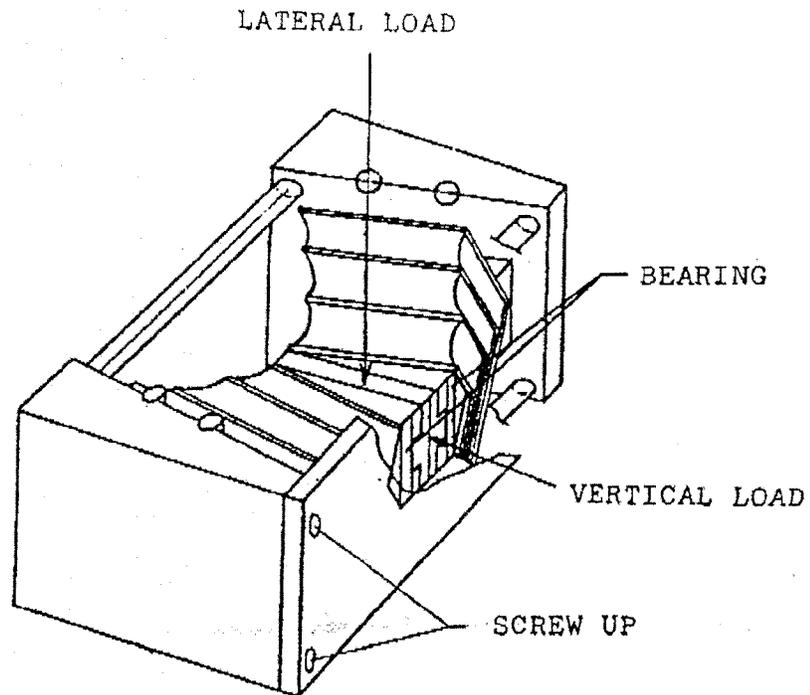
Where, Kv: Spring stiffness (lb / INCH),
Vertical load:

UNIT	PA-3		PA-4	
	Lbs	kg	Lbs	kg
AW0	5905	2678	7029	3188
AW3	8718	3954	9842	4464
AW4	9655	4379	10779	4889
AW4×1.3	12552	5693	14013	6356

Attached sheet 3 .

A description of the lateral-stiffness test procedure.

Fig 3



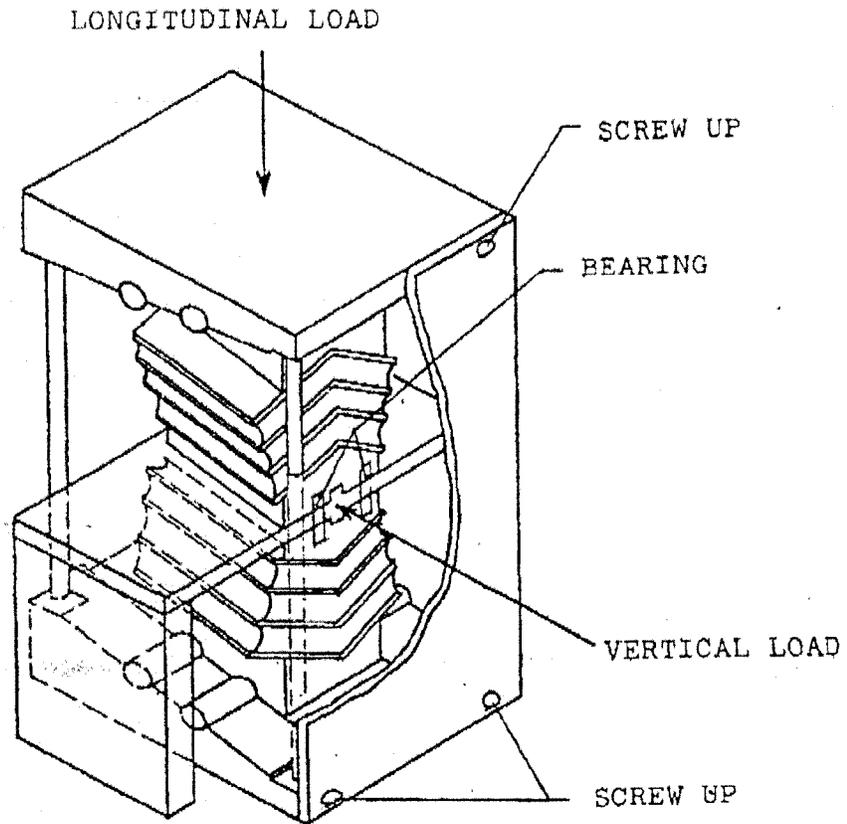
The vertical load ($AW4 \times 1.3$) is applied twice on the Chevron Spring from zero, then the Spring is kept loaded with the vertical load ($AW0$). After this, the lateral load ($AW0 \times 0.3$) is applied twice on the Chevron Spring from zero and the dialgauge is set at zero, to measure the deflection caused by lateral load.

UNIT	PA-3		PA-4	
	Lbs	Kg	Lbs	kg
AW0	5905	2678	7029	3188
AW0×0.3	1772	804	2109	957
AW4	9655	4379	10779	4889
AW4×1.3	12552	5693	14013	6356

Attached sheet 4

A description of the longitudinal-stiffness test procedure.

Fig 4



The vertical load ($AW4 \times 1.3$) is applied twice on the Chevron Spring from zero, then the Spring is kept loaded with the vertical load ($AW0$). After this, the longitudinal load ($AW0 \times 0.3$) is applied twice on the Chevron Spring from zero and the dialgauge is set at zero, to measure the deflection caused by longitudinal load.

UNIT	PA-3		PA-4	
	Lbs	kg	Lbs	kg
AW0	5905	2678	7029	3188
AW0×0.3	1772	804	2109	957
AW4	9655	4379	10779	4889
AW4×1.3	12552	5693	14013	6356

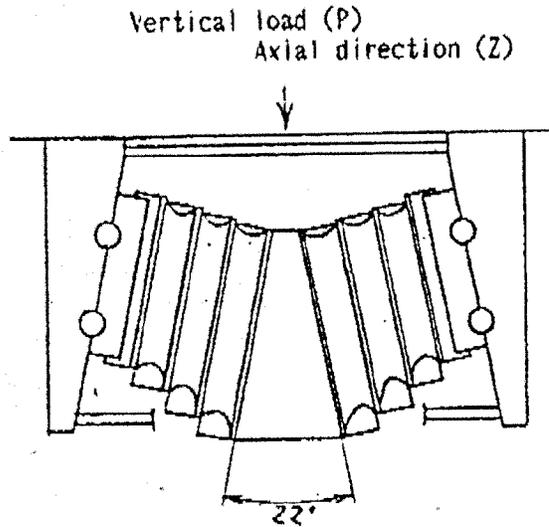
Attached sheet 5

Endurance test procedure

The Endurance Test Procedure is conducted with two sample The Chevrons which are assembled as shown in Fig 2. and then applied with the load of following conditions. The product is to conform to the following requirements:

- Vertical Load (P) : $AW4 \pm AW4 \times 0.3$
- Frequency : 3Hz
- Repeat cycles : Not less than 3,000,000 cycles
- Room temperature : Approx 68° F

Fig 5



UNIT	PA-3		PA-4	
	Lbs	Kg	Lbs	Kg
AW 4	9,655	4,379	10,779	4,889
AW4 x 0.3	2,897	1,314	3,234	1,467

Attached sheet 6

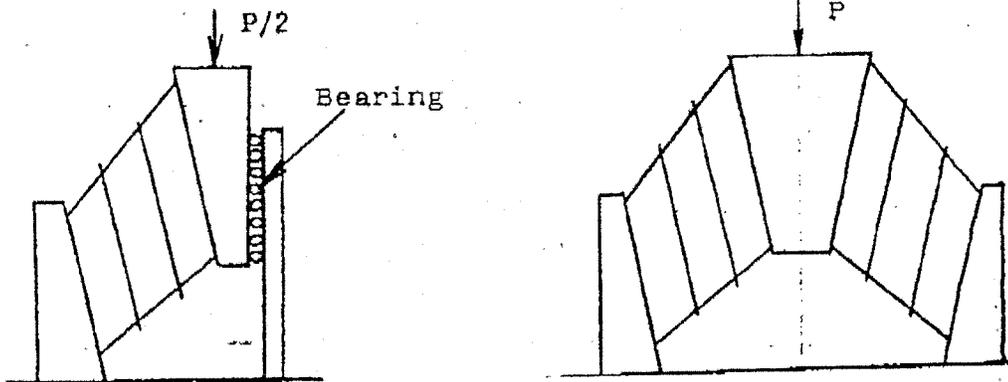
Bonding test procedure

1. For the type test, one sample chevron spring is attached to the jig as shown in Fig.6. First the sample is left at testing temperature for three hours, then applied with a load of $AW4 \times 1.3$ in the direction of $P/2$.

Testing temperature : 0° F, 140° F
 Loading conditions $(AW4 \times 1.3) / 2$: PA-3 = 6276 lbs
 PA-4 = 7006.5 lbs

2. For the product test, two sample chevrons are assembled as shown in Fig.2. and are left at 68° F for three hours, and then applied with a load of $AW4 \times 1.3$ in the direction of P.

Loading conditions $(AW4 \times 1.3)$: PA-3 12552 lbs
 PA-4 14013 lbs



Attached sheet 7

Dimensional measurement test procedure

- 1) The dimensional measurement of the product is given after the product is kept in an atmosphere of approximately 68° F for more than 24 hours.
- 2) Dimensions as shown in Fig 8. is measured on all product.

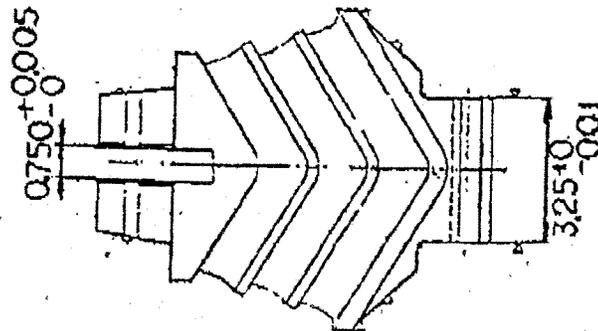
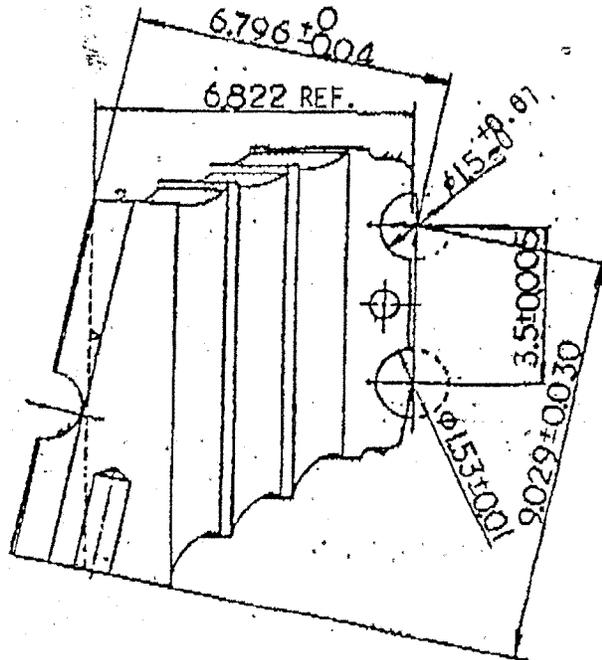


Fig.8



△ Attached sheet 8

Calculation of test load on Chevron spring

WC : Car weight 69,432 lbs/car (AWO)
 WP3 : Passenger load AW3 22,500 lbs/car
 WP4 : Passenger load AW4 30,333 lbs/car
 (Passenger load according to PATH Spec. 2.5.B)
 WB : Weight of axle and axle-mounted components 13,200 lbs/car

1. Vertical test load

$$\begin{aligned} V (AWO) &= (WC - WB) / 8 = 7,029 \text{ lbs / journal box : AWO} \\ V (AW3) &= (WC + WP3 - WB) / 8 = 9,842 \text{ lbs / journal box : AW3} \\ V (AW4) &= (WC + WP4 - WB) / 8 = 10,779 \text{ lbs / journal box : AWO} \\ V (AW4 \times 1.3) &= 1.3 \times V (AW4) = 14,013 \text{ lbs / journal box : AW4} \times 1.3 \end{aligned}$$

2. Lateral test load

$$\begin{aligned} V (AWO) &= (WC - WB) / 8 = 7,029 \text{ lbs / journal box : AWO} \\ T (AWO \times 0.3) &= 0.3 \times V (AWO) = 2,109 \text{ lbs / journal box : AWO} \times 0.3 \\ V (AW4) &= (WC + WP4 - WB) / 8 = 10,779 \text{ lbs / journal box : AW4} \\ V (AW4 \times 1.3) &= 1.3 \times V (AW4) = 14,013 \text{ lbs / journal box : AW4} \times 1.3 \end{aligned}$$

3. Longitudinal test load

$$\begin{aligned} V (AWO) &= (WC - WB) / 8 = 7,029 \text{ lbs / journal box : AWO} \\ L (AWO \times 0.3) &= 0.3 \times V (AWO) = 2,109 \text{ lbs / journal box : AWO} \times 0.3 \\ V (AW4) &= (WC + WP4 - WB) / 8 = 10,779 \text{ lbs / journal box : AW4} \\ V (AW4 \times 1.3) &= 1.3 \times V (AW4) = 14,013 \text{ lbs / journal box : AW4} \times 1.3 \end{aligned}$$

4. Endurance test load

$$\begin{aligned} V (AW4) &= (WC + WP4 - WB) / 8 = 10,779 \text{ lbs / journal box : AWO} \\ V (AW4 \times 0.3) &= 0.3 \times V (AW4) = 3,234 \text{ lbs / journal box : AW4} \times 0.3 \end{aligned}$$

PAN-J-1197A

Subject : PA-4 CHEVRON SPRING

Reference : PA-NT-0934 Mar 10, 1986

PAN-J-1078 Rubber Axle Spring

PAN-J-1112 PA-4 Chevron Spring

2P104958-3166-c CHEVRON SPRING

Calculation of test loads on chevron spring are shown on attached sheet 8. These test load values are used only to confirm the each stiffness (vertical, lateral, longitudinal) of chevron spring. (to obtain the relation between deflection of chevron spring and test load.)

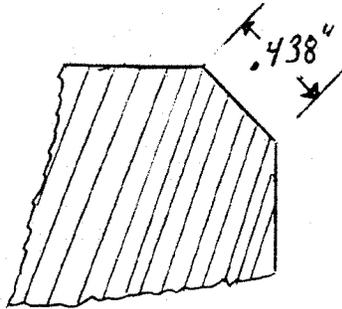
THE PORT AUTHORITY TRANS HUDSON CORPORATION
ONE WORLD TRADE CENTER
NEW YORK, NEW YORK 10048

ADDENDUM TO SPECIFICATION FOR
PA 4 CHEVRON AXLE SPRINGS

CED-2998

The following addendum is in reference to KHI drawing 2P104958-3166-c (Group 622) on PATH part # 77139

1. The .236 chamfer dimension is incorrect at Location E-3.5 on KHI drawing 2P104958-3166-c.
The correct measurement shall be .438" in length.



REVISED 6/11/98 *[Signature]*
T.H.M.

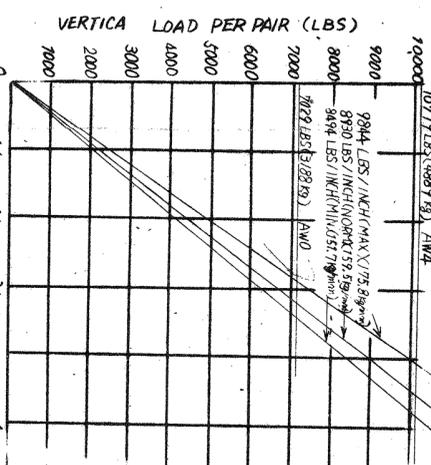
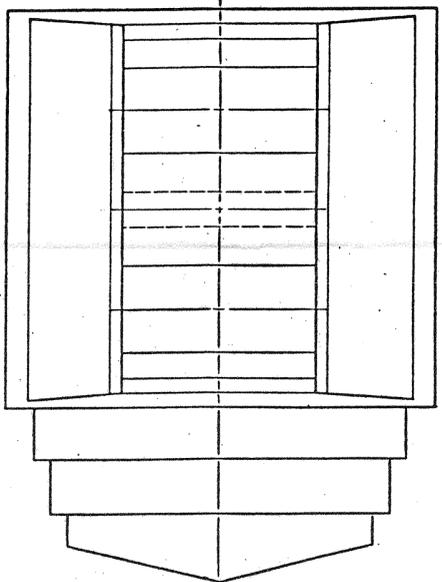
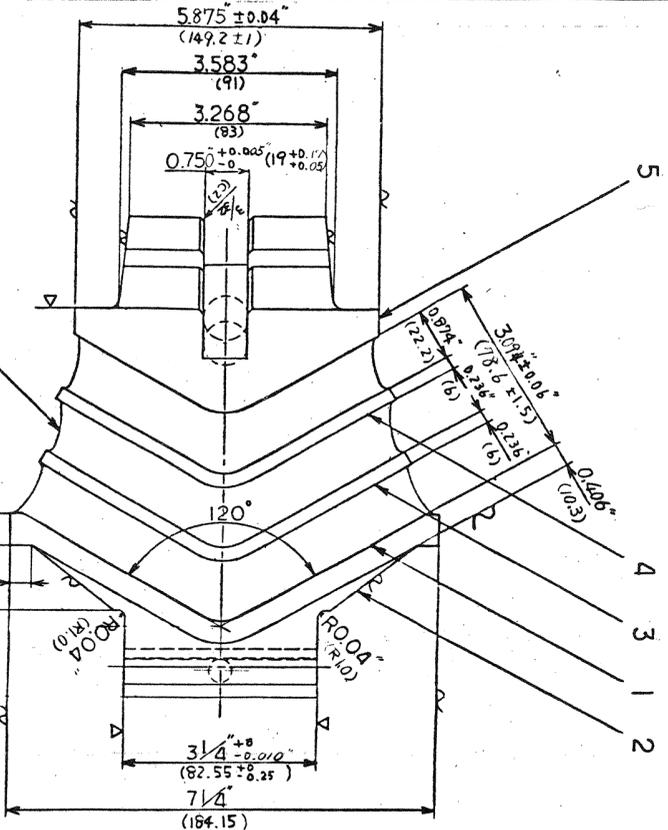
End of section

#10089010

856701P2

PRIMARY SUSPENSION	2P104975
NEXT ASSY.	DWG. NO.
APPLICATION	

REV. NO.	DESCRIPTION	DWG. NO.	MATERIAL	QTY	WEIGHT	REMARKS	REV. MARK
1	RUBBER		NATURAL RUBBER	1		ASTM 2000 M14A S14 EQUIVALENT TO AISI 1025	
2	BLOCK 1		STRUCTURAL STEEL	1		EQUIVALENT TO ASTM A283 GR. B EQUIVALENT TO ASTM A283 GR. D	
3	PLATE		MILD STEEL	1			
4	PLATE		MILD STEEL	1			
5	BLOCK 2		STRUCTURAL STEEL	1		AISI 1025	



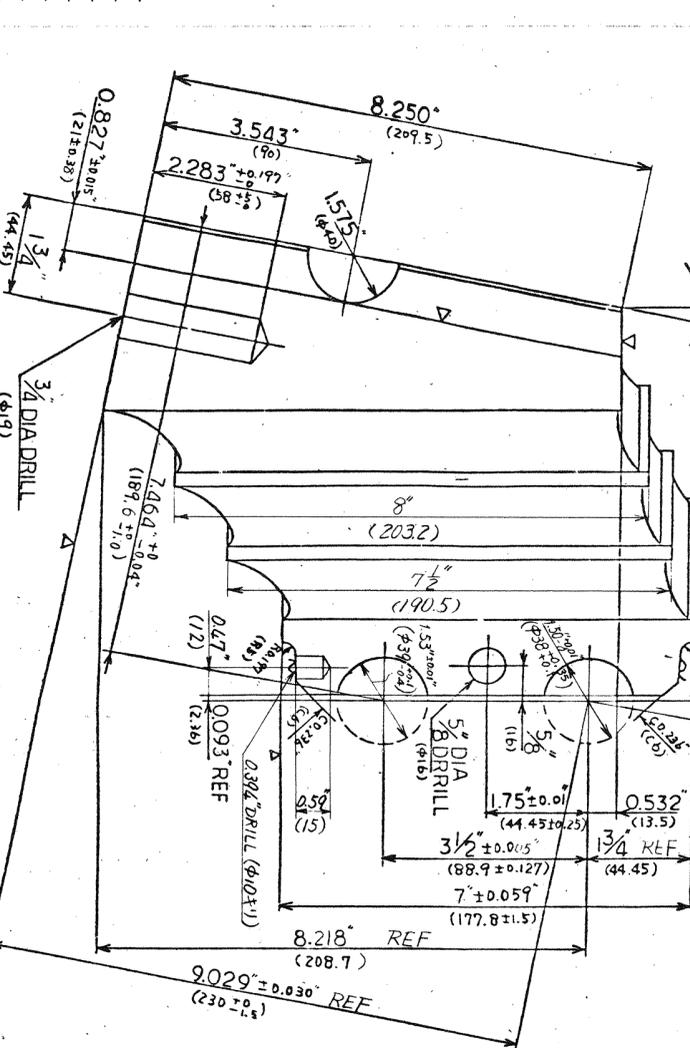
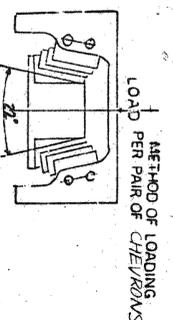
UNLESS OTHERWISE SPECIFIED	
TOLERANCE OF DIMENSIONS	0.12" ~ 0.24" (3 ~ 6) ± 0.01 (0.2)
	0.24" ~ 1.20" (6 ~ 30) ± 0.02 (0.5)
	1.20" ~ 4.70" (30 ~ 120) ± 0.03 (0.8)
	4.70" ~ 12.5" (120 ~ 315) ± 0.05 (1.2)
	12.5" ~ 40.0" (315 ~ 1000) ± 0.08 (2.0)
	40.0" ~ 80.0" (1000 ~ 2000) ± 0.12 (3.0)
	OVER 80.0" (2000 ~) ± 0.25 (6.0)
ANGLES	± 1°
DRILLED HOLE DIA. TOLERANCES	0.12" ~ 0.24" (3 ~ 6) +0.006" (0.15) -0
	0.24" ~ 0.47" (6 ~ 12) +0.010" (0.25) -0
	0.47" ~ 0.98" (12 ~ 25) +0.012" (0.30) -0
	0.98" ~ 1.97" (25 ~ 50) +0.016" (0.40) -0

DRAWING NUMBER AND MANUFACTURER'S IDENTIFICATION TO BE STAMPED (因番製番製造所略号ヲ刻印)

NOTE 1 TO BE MANUFACTURED ACCORDING TO RUBBER AXLE SPRING SPECIFICATIONS. (Spec. No. 0001) COMPLETED CHEVRONS AFTER KEEPING IN APPROX 68°F FOR 24 HOURS SHALL BE MEASURED OF VITAL DIMENSIONS AND VERTICAL STIFFNESS.

3 SPRING STIFFNESS (ONE PAIR AND ITS MOUNTING VEE ANGLE 22°) IS AS FOLLOWS:
 (1) VERTICAL DIRECTION --- MAX 984LBS/INCH PER JOURNAL BOX. MIN 849LBS/INCH PER JOURNAL BOX.
 (2) LATERAL DIRECTION --- 1700 LBS/INCH PER JOURNAL BOX.
 (3) LONGITUDINAL DIRECTION --- 84900 LBS/INCH PER JOURNAL BOX.
 4. REFER TO JIS B 4005 (LATEST REVISION) FOR WELDING.

AS BUILT DRAWING
 NOT REVIEWED AND CONFIRMED BY LTX
 Designer: R. J. Wale Date: 5/1/88



REV. NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED	5/1/88	R. J. Wale	
2	CHANGED SPRING STIFFNESS MODIFIED	5/1/88		
3	MODIFIED SOME DIMENSIONS	5/1/88		
4	MODIFIED VEE ANGLE	5/1/88		

DATE: 5/1/88
 BY: R. J. Wale
 CHECKED: [Signature]

ORIG. DRG. NO. 2P104958-3/166-C
 REV. DRG. NO. 16

SCALE: 1/2

CONTRACT PAT 120.007 PA-4 CARS

PATH PA-4 TRUCK
 CONTRACT PAT 120.007 PA-4 CARS
 6/22 4