

567 West Lake Street Chicago, Illinois 60661-1498 TEL 312 664-7200 www.transitchicago.com

Date:

February 6, 2013

ADDENDUM #5

Subject: Requisition No. C12RI101317082 – Request for Proposal (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series Railcars.

We are enclosing Addendum No. 5 for the subject requisition:

Below are notes that are meant to clarify sections of the RFP. Attached is a list of proposer questions with corresponding answers provided by the CTA.

Reference: PROPOSER QUESTIONS
 Attached is a list of proposers' questions and CTA's answers.

2. Reference: CONTRACT FOR SUPPLIES: SPECIAL CONDITIONS
Attached is an updated Contract For Supplies: Special Conditions. These pages shall replace the existing Contract For Supplies: Special Conditions pages. All updated language has been highlighted, no other changes have been made to this section.

Please acknowledge receipt of Addendum No. 5 on the Proposal page titled Bidders Signature Page. Failure to acknowledge receipt of **any addenda** may cause your bid to be non-responsive.

The proposal due date remains Thursday, February 14, 2013, 3:30 p.m., local Chicago time.

If you have any questions, please contact Mr. Timothy Polacek of my office at (312) 681-2481.

Sincerely,

Ellen McCormack

Vice-President, Purchasing

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Enclosures (11)

CC:

E. McCormack

K. Brosnan

Contract File (C12RI101317082)

C12RI101317082

#	Subject	PROPOSER QUESTION:	CTA RESPONSE
		The RFP requires, "Documents supporting a firm's and subcontractor(s)' financial stability and ability to perform the contract must be included as well. Respondent must provide audited financial statements or any other documentation demonstrating sufficient financial capacity to successfully complete this project."	
	Firm Finances	Our concern is that certain of our subcontractors (especially DBE's) may not be required to issue audited financial statements since they are not publically traded.	
		Accordingly, the question is, could we not provide the suppliers financial statements in the tender phase?	A financial statement will be required from the prime
1		Naturally is up to the Prime Contractor to verify and identify the capability of the subcontractors. (SectionIII.B.2.d.)	contractor alone. CTA shall forgo the requirement for subcontractor financial statements.
		The indemnification requirement is very broad. Would Chicago Transit Authority delete this section in its entirety, and replace it with the following:	·
2	Idemnification	3. INDEMNIFICATION: "The Contractor shall indemnify, defend, and save harmless the Chicago Transit Authority and all its officers, agents, and employees against all suits, claims, or liability of every name and nature, for or due to any injuries to persons or damage to property arising out of or in consequence of the negligent acts or negligent failure to act of the Contractor in the performance of the work covered by the Contract or failing to comply with the terms and conditions of the Contract, whether by the Contractor or the Contractor's employees or Subcontractors."	No, the language shall remain as it is currently written in the RFP.
		The state of the s	
		The Disputes provision does not allow for arbitration, which is more efficient than filing an action in court. Would Chicago Transit Authority delete this section in its entirety, and replace it with the following:	
3	Disputes	12. DISPUTES Any controversy, claim or dispute arising out of or relating to this Agreement, either during the existence of the relationship or afterwards, between the parties hereto shall be submitted to the authorized representative of each party. In the absence of agreement between the parties after submission to the authorized representative of each party, any dispute shall be finally settled pursuant to the Commercial Arbitration Rules of the American Arbitration Association ("AAA") which are in force at that time. The sole and exclusive venue for any disputes, claims, causes of action, legal or equitable shall be arbitration. The arbitra-tion proceed-ings shall be conducted in the State of Illinois. The parties consent to this jurisdiction and shall not contest venue or personal jurisdiction in this forum. The arbitrator's finding shall be final and binding. Judgment upon the award may be entered in any court of competent jurisdiction in the United States.	No, the language shall remain as it is currently written in the RFP.
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4	1	The requirement as listed goes beyond the industry standard warranty requirement. Would Chicago Transit Authority delete this section in its entirety, and replace it with the following: 5. WARRANTY "For a period of twelve months following delivery of any part, Contractor warrants, to Chicago Transit Authority only, that goods and services associated with that part will conform to the Original Equipment Manufacturer (OEM) specification. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE SAID DESCRIPTION, NOR ANY SUCH WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE OR MERCHANTABILITY. Such express warranty is given on behalf of the Contractor only, and is expressly in lieu of and excludes and supersedes any warranty of merchantability or fitness for any particular purpose, and all other warranties, express or implied from any other person or entity, including the manufacturer of any component part. In accordance with this warranty, Contractor will correct either by repair, or by the supply of a replacement part, or compensate therefore by equitable adjustment of the contract price, at Contractor's sole option, any defect which may be discovered after delivery or during proper use of the goods, and which is due solely to faulty design, materials, or workmanship not in accordance with the said description; provided, however, that Chicago Transit Authority gives Contractor written notice of such defect promptly after it is discovered or within a reasonable time after it should have been discovered, and in any event, not later than twelve (12) months after the delivery. If such notice of defect is not so given, Contractor's obligation to correct such defect or compensate therefore shall terminate. Parts that are repaired, modified, or replaced shall be warranted for the remainder of the warranty period of the part originally supplied. In any event, the foregoing obligation to correct or compensate constitutes the exclusive remedy for any such defect or breach of warranty, and constitutes Co	No, the language shall remain as it is currently written in the RFP.

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	The RFP excludes consequential or incidental damages, but only with respect to late deliveries and intellectual property indemnification. Would Chicago Transit Authority consider insertion of a new section in the Special Conditions as follows?: "EXCLUSION OF LIABILITY FOR CONSEQUENTIAL LOSS OR DAMAGE Notwithstanding any other provision of this Contract, Contractor shall not be liable to the Chicago Transit Authority by way of indemnity or by reason of any breach of this Contract or of statutory duty or by reason of any liability (including, but not limited to negligence) for loss of profit, loss of subsidy, loss of production, loss of any tax benefit, financing costs, or for any financial or economic loss or for any indirect or consequential damage or loss whatsoever that may be suffered by the Chicago Transit Authority or any third party."	No, the language shall remain as it is currently written in the RFP.
tion of y	The Contractor's Liability under the Contract is unlimited. Bidders will have to price in this risk accordingly. Would Chicago Transit Authority consider insertion of a new section in the Special Conditions as follows?: "LIMITATION OF LIABILITY Contractor's total aggregate liability under the contract whether based upon contract, tort (including negligence and strict liability) or otherwise, shall in no event exceed one hundred percent (100%) of the total contract value. All claims by the Chicago Transit Authority against the Contractor arising under the contract shall be brought within three (3) years after the end of the warranty under this contract."	See the Limitation of Liability that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ny and	There is no mention about statutory and implied warranties in the Contract. The Contractor should be able to rely upon the scope of warranty expressly set out in the Contract so that it may establish its costs. We suggest for greater clarity, please include the following language in the Contract: "The warranties, guarantees, obligations and liabilities of the Contractor set forth in this Contract are expressly in lieu of any other warranty, express or implied, including any implied warranty of merchantability and fitness for a particular purpose."	See the revised special conditions included with Addendum 5.
nt Payment ntractors	The Contract states that the Contractor is required to pay all Subcontractors for all work that the Subcontractor has satisfactorily completed, no later than 7 calendar days after the Contractor has received payment from CTA. This timeline to pay Subcontractors is quite aggressive. We are requesting that the timeline to all Subcontractors be changed from 7 calendar days to 30 calendar days.	The Prompt Payment language can be discussed at preaward negotiations.
Damages y	Though the Contractor should expect to bear the consequences for its own acts or omissions, it should not be exposed to seemingly unlimited liability. As the Contract is written, there is no limitation on the Contractor's contractual liability. Therefore we propose that the following be language be added to the Contract: "In no event shall the parties be liable for special, indirect, incidental or consequential damages, including loss of profits, interests or revenue."	See the Limitation of Liability that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ion of y Ii	It appears as though the Contractor's current liability under the RFP document is unlimited, presenting an inordinate risk to the Contractor and which may have an adverse impact on price. As it is common practice in the industry, we suggest capping the aggregate liability of the Contractor under the Contract to 100% of the total Contract value. Please include the following language in the Contract: "Notwithstanding anything to the contrary contained herein or in any other contractual document, the Contractor's liability under the Contract shall be limited to 100% of the total contract value."	See the Limitation of Liability that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ges	Can you please confirm the following under the liquidated damage clause: item (1) applies to the first 24 sets of materials including the 2 prototypes; item (2) applies to all subsequent (sets 25 and on) deliveries in increments of 8 kits per delivery (monthly or bimonthly), and that item 3 applies to all deliveries.	Please see the updated Liquidated Damages language that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ated	Would the CTA consider rewording item 1 to say "\$2,000 per business day of delay beyond 3 business days that the initial shipment or material to overhaul 24 cars has not been delivered as scheduled, not to exceed an aggregate amount of 5% of the total contract value"?	Please see the updated Liquidated Damages language that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ges	Would the CTA consider rewording item 2 to say "\$500 per business day of delay for the first 20 business days, then \$1,000 per business day for all other shipments that are delayed beyond the approved delivery schedule, not to exceed an aggregate of 5% of the total contract value?"	Please see the updated Liquidated Damages language that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ated ges	Would the CTA consider rewording item 3 to say "Liquidated damages will be \$500 per business day of delay beyond the three business days allowed for delivery of the replacement parts for up to the first 20 business days, then \$1,000 per business day of delay not to exceed an aggregate of 5% of the total contract price.	Please see the updated Liquidated Damages language that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ated	Would the CTA consider removing any Liquidated Damages for those items where they have "Sole Sources Listed?" (Bidders) will have very little leverage commercially or schedule wise if a supplier is sole sourced. It may be difficult, if not impossible to flow down Liquidated Damages as part of a purchase order for these suppliers as well.	Please see the updated Liquidated Damages language that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
ated ges	Under liquidated damages, are the dollar amounts of liquidated damages the same regardless of the number of kits bid?	Please see the updated Liquidated Damages language that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
	ry and ities tractors amages on of / on of / ted ted tes ted ted ted ted ted	deliveries and intellectual property indemnification. Would Chicago Transi Authority consider insertion of a new section in the Special Conditions as follows?* EXCLUSION OF LIABILITY FOR CONSEQUENTIAL LOSS OR DAMAGE Notwithstanding any other provision of this Contract, Contractor shall not be liable to the Chicago Transi II Authority by way of indemnity or by reason of any breach of this Contract or of statutory duty or by reason of any liability (including, but not limited to negligence) for loss of profit, loss of subsidity, loss of profit, loss of subsidity, loss of profit, loss of profit on the contract or onsequential damage or loss whatsoever that may be suffered by the Chicago Transit Authority or any third party." The Contractor's Liability under the Contract is unlimited. Bidders will have to price in this risk accordingly. Would Chicago Transit Authority consider insertion of a new section in the Special Conditions as follows?* Uniffraction of LIABILITY Contractor's total aggregate liability under the contract whether based upon contract, tort (including negligence and strict liability) or otherwise, shall in no event exceed one hundred persent (10%) of the total contract values. All claims by the Chicago Transit Authority against the Contractor arising under the contract shall be brought within three (3) years after the end of the warranty under this contract. All claims by the Chicago Transit Authority against the Contractor will be used to read the properties of the properties of the Contractor should be able to rely upon the scope of warranty sugressly set out in the Contract or should be able to rely upon the scope of warranty sugressly set out in the Contract or should be able to rely upon the scope of warranty sugressly set out in the Contract or should be able to rely upon the scope of warranty sugressly, set out in the Contract or should be able to rely upon the scope of warranty

Liquidate Damages Alternativ Language	references to \$30,000 per business day of delay for all other shipments be changed to \$5,000;	Please see the updated Liquidated Damages language that has been added to the revised Contract for Supplies: Special Conditions that have been included with Addendum 5.
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CONTRACT FOR SUPPLIES

SPECIAL CONDITIONS

SCOPE OF WORK ("Work")

This is a Definite-Delivery Contract to supply overhaul kits and various other parts so that CTA can complete an extended life overhaul ("C-Lite") for 100 of CTA's 2600 series railcars. The work includes a delivery plan that will ensure that CTA will have the parts it needs to perform the overhauls at a rate of eight (8) cars per month. The Contractor will supply all the material necessary to complete twenty-four (24) cars for the initial delivery and then provide a delivery schedule that must support the production rate of eight (8) cars per month.

ELECTRONIC FUND TRANSFER

CTA has adopted Electronic Fund Transfer (EFT) as the preferred method of payment for vendor invoices. An EFT enrollment form will be provided upon request to the successful proposer(s) with the executed contract and must be completed to enable payment of vendor accounts by this method. If awarded a contract, provide the completed EFT form to the CTA Purchasing Administrator identified on the title page.

PERFORMANCE/PAYMENT BOND

None required.

INSURANCE

None required.

DEFINITIONS

Unless defined otherwise herein, the following definitions apply to this Order and its attachments:

- (a) Chicago Transit Authority, CTA, Authority and Buyer are synonymous herein.
- (b) Proposer, Bidder, Seller, Vendor, Contractor and the company, organization or person(s) to whom the Order is addressed are synonymous herein.
- (c) Purchase Contract, Contract, Purchase Order and Order are synonymous herein.
- (d) Overhaul Kit, Master Kit, Part, Item, Kit, Component, Subsystem, Sub-assembly and Assembly are synonymous herein.
- (e) Day is synonymous with Calendar Day unless specified otherwise.

ACCOUNTING SERVICES

The Contract issued to the successful Bidder will state the total expenditure authorization on the signed acceptance page. Contractor shall not accept any requests for services in excess of the total Contract expenditure authorization unless authorized in writing by the Director of Purchasing. Contractor shall be liable for any costs incurred as a result of his failure to either notify the Authority or accept requests not authorized by the Director of Purchasing.

AVAILABILITY OF FUNDS

This procurement is subject to the availability of funding from financial assistance contracts between the Illinois Department of Transportation, Regional Transportation Authority and the Chicago Transit Authority. The CTA's obligation hereunder is contingent upon the availability of appropriated funds from which payment for the Contract purposes can be made. No legal liability on the part of the CTA for any payment shall arise until funds are made available to the Contracting Officer for this Contract and until the Contractor receives notice of such availability and approval, to be confirmed in writing by the Contracting Officer. Any award of Contract (including the exercise of options, if any) hereunder will be conditioned upon said availability of funds for the Contract.

DURATION OF CONTRACT

This Contract shall become effective upon Contract execution and shall remain in effect until all material specified in the Bills of Material have been delivered and accepted by the CTA.

DELIVERY

Delivery shall be FOB, destination and completed according to the final Delivery Plan proposed by the Vendor and accepted by the CTA. The individual listed below shall be the Contractor's contact for establishing delivery at CTA's Skokie Shops facility. Contractor shall provide a minimum of seven (7) days advance notice prior to delivery. Deliveries are to be made weekdays, except CTA recognized holidays, between the hours of 7:00 AM and 3:00 PM to:

CTA Skokie Shop, Rail – Heavy Maintenance Attn: Mr. Julian Sandu or his designee 3701 W. Oakton Street Skokie, Illinois 60076-3498

(847) 982-5141, e-mail: jsandu@transitchicago.com

PAYMENT

The Contractor shall submit an invoice for each delivery of acceptable and approved material delivered. Invoices will be paid subsequent to formal acceptance of material by CTA. Original invoices shall be forwarded to CTA Accounts Payable Department, 567 W. Lake St., Chicago, Illinois 60661. Payments will be made in Net 30 days after final acceptance of material or receipt of Contractor's invoice by CTA or in accordance with the terms of Contractor's invoice whichever is most favorable to the CTA. Payment date(s) shall be calculated from receipt of invoice or final acceptance of goods, whichever is later.

Invoices must be presented only by the vendor to which a purchase order is awarded. Invoices received from a third party will not be honored unless prior written approval from the purchasing agent has been obtained.

LIQUIDATED DAMAGES FOR LATE DELIVERIES

It is mutually understood and agreed by and between the parties to the Contract that time is of the essence with respect to the completion of the Work and that in case of any failure on the part of the Contractor to deliver the material within the time specified in the Contractor's final "Delivery Schedule" as approved by CTA, except for any excusable delays as provided in "Excusable Delays/Force Majeure" or any extension thereof, the Chicago Transit Authority will be damaged thereby. The amount of said damages, being difficult if not impossible of definite ascertainment and proof, it is hereby agreed that the amount of such damages due to the Chicago Transit Authority shall be fixed at the following schedule:

- 1. If the initial delivery of materials for 22 railcars is delayed past the defined delivery date, liquidated damages will be charged at a rate of \$10,000 per business day for the first 10 days of delay. Beginning on the 11th day thru the 20th business day, liquidated damages will be charged at a rate of \$20,000 per day. Any delay beyond the 21st business day a liquidated damage rate of \$30,000 per business day will apply, not to exceed an aggregate of \$900,000.
- 2. If any of the subsequent monthly deliveries of materials for 8 railcars are delayed past the defined date, liquidated damages in the amount of \$500 per business day will apply for the first 20 business days. Beginning on the 21st business day thru the 30th business day, liquidated damages will be charged at a rate of \$10,000 per day. Beginning on the 31st business day thru the 40th business day, liquidated damages will be charged at a rate of \$20,000 per day. Any delay beyond the 41st business day a liquidated damage rate of \$30,000 per business day will apply, not to exceed an aggregate of \$900,000.
- 3. If a kit is delivered as scheduled, but at inspection for acceptance, it is discovered that the kit is either incomplete or contains a defective part, CTA's Project Manager will notify the Contractor and the contractor will have three business days to provide the part(s) to complete the kit or replace the defective part. Liquidated damages will be \$500 per business day of delay beyond the three business days allowed for delivery of the replacement parts for up to the first 20 business days. Beginning on the 21st business day thru the 30th business day, liquidated damages will be charged at a rate of \$10,000 per day. Beginning on the 31st business day thru the 40th business day, liquidated damages will be charged at a rate of \$20,000 per day. Any delay beyond the 41st business day a liquidated damage rate of \$30,000 per business day will apply, not to exceed an aggregate of \$900,000.

The Contractor hereby agrees to pay the aforementioned amounts as fixed, agreed and liquidated damages, and not by way of penalty, to the Chicago Transit Authority and further authorizes the Chicago Transit Authority to deduct the amount of the damages from money due the Contractor under the Contract, computed as aforesaid. If the money due the Contractor is insufficient or no money is due the Contractor, then the Contractor shall pay the Chicago Transit Authority the difference or the entire amount, whichever may be the case, within thirty (30) days after receipt of a written demand by the Contracting Officer.

The payment of aforesaid fixed, agreed and liquidated damages shall be in lieu of any damages for any loss of profit, loss of revenue, loss of use, or for any other direct, indirect, special or consequential losses or damages of any kind whatsoever that may be suffered by the Chicago Transit Authority arising at any time from the failure of the Contractor to fulfill the obligations referenced in this clause in a timely manner.

LIMITATION OF LIABILITY

In carrying out any of the provisions of this Contract or in exercising and power or authority granted to them thereby, there will be no liability upon the board members, officials, agents or employees of the Authority, including without limitation to the Director of Purchasing and the Project Manager, either personally or as officials of the Authority, it being understood that in such matters they act as representatives of the Authority.

With respect to all claims, actions, and causes of action arising out of, under or in connection with this Contract (including, but not limited to those arising under Part B, paragraph 8.3.1) regardless of the form of action, Contractor's liability shall not exceed, in the aggregate, three times the total Contract value.

Notwithstanding any provision to the contrary, in no event shall Contractor be liable to the Authority for losses or damages suffered by the Authority for any indirect, special, incidental or consequential damages, whether foreseeable or not.

EXCUSABLE DELAYS/FORCE MAJEURE

If the Contractor is delayed at any time during the progress of the Work by the neglect or failure of the Chicago Transit Authority or by a cause as described below, then the time for completion and/or affected delivery date(s) shall be extended by the Chicago Transit Authority subject to the following cumulative conditions:

- a. The cause of the delay arises after the Notice of Award and neither was nor could have been anticipated by the Contractor by reasonable investigation before such award. Such cause may also include force majeure events such as any event or circumstance beyond the reasonable control of the Contractor, including but not limited to acts of God; earthquake, flood and any other natural disaster; civil disturbance, strikes and labor disputes; fires and explosions; war and other hostilities; embargo; or failure of third parties, including Suppliers or Subcontractors, to perform their obligations to the Contractor;
- b. The Contractor demonstrates that the completion of the Work and/or any affected deliveries will be actually and necessarily delayed;
- c. The Contractor has taken measures to avoid and/or mitigate the delay by the exercise of all reasonable precautions, efforts and measures, whether before or after the occurrence of the cause of delay; and
- d. The Contractor makes written request and provides other information to the Chicago Transit Authority. A delay in meeting all of the conditions of this section shall be deemed an excusable delay. Any concurrent delay that does not constitute an excusable delay shall not be the sole basis for denying a request hereunder.

None of the above shall relieve the Contractor of any liability for the payment of any liquidated damages owing from a failure to complete the Work by the time for completion that the Contractor is required to pay pursuant to "Liquidated Damages" for delays occurring prior to, or subsequent to the occurrence of an excusable delay.

WARRANTY

The proposed product furnished under this Contract shall be covered for a period of one (1) year against manufacturing defects for both labor and material. Should the manufacturer's standard warranty coverage exceed the minimum requirement, said manufacturer's standard warranty shall apply. Warranty period shall begin when the material is accepted by the CTA. Contractor shall be responsible for all warranty claims for the parts and assemblies provided under this contract.

The warranties of the Contractor set forth in this Contract are expressly in lieu of any other warranty, express or implied, including any implied warranty of merchantability and fitness for a particular purpose.

WARRANTY CLAIMS

In the event that a vendor fails to pay approved or partially approved warranty claims within 60 days of submission, the CTA shall send the vendor written notice seeking immediate payment of the outstanding claims. If the vendor fails to pay the outstanding claims within 5 days of vendor's receipt of the written notice, the Purchasing Department shall issue a notice to cure letter providing the vendor with10 days to cure the default. If the vendor fails to cure the default, the CTA may, at its discretion, deduct the CTA's costs from 1) any unpaid contract funds, 2) any contract retainage amounts or 3) a maintenance or performance bond. If the deductions do not fully satisfy the outstanding claims, the CTA may seek additional remedies. All remedies shall be inclusive of applicable interest payments.

REIMBURSEMENT FOR LABOR AND OTHER RELATED COSTS

The CTA shall be reimbursed by the Contractor for labor. The amount shall be determined by the Chicago Transit Authority for a qualified mechanic at a straight time wage rate of \$89.38 per hour, which includes fringe benefits and overhead adjusted for the CTA's most recently published rate in effect at the time the Work is performed. These wage and fringe benefit rates shall not exceed the rates in effect in the CTA's service terminal at the time the Defect correction is made. If the straight time wage rate increases during the contract period, then those rates will apply.

REIMBURSEMENT FOR PARTS

The CTA shall be reimbursed by the Contractor for defective parts and for parts that must be replaced to correct the defect. The reimbursement shall be at the current price at the time of repair and shall include taxes where applicable, plus eighteen and one half (18.5) percent handling costs. Handling costs shall not be paid if part is supplied by Contractor and shipped to CTA. If the handling cost percent increases during the contract period, then that percentage will apply.

The CTA may require that the Contractor supply parts for warranty-covered repairs being performed by the CTA. Those parts may be remanufactured but shall have the same form, fit and function, and warranty. The parts shall be shipped prepaid to the CTA from any source selected by the Contractor within fourteen (14) days of receipt of the request for said parts and shall not be subject to a CTA handling charge.

CONTRACTUAL AUTHORITY

This Contract shall, under no circumstances grant Contractor exclusivity for providing the items and/or services as specified in this Contract and/or added during the term of this Contract. In addition, this Contract shall not prejudice the right of the CTA to seek competitive bids on such items and/or service, which cannot be provided by the Contractor in an expedited manner that are required to meet CTA needs to maintain service to the riding public during the term of this Contract that have been found to be available from alternate acceptable sources. If items are determined to be available from other sources (not identified as an O.E.M. maintenance and repair part and/or an approved equal part), such items may be purchased at will to meet CTA immediate needs and subsequently obtained through appropriate CTA procurement procedures, as applicable.

PROPRIETARY INFORMATION

All CTA specifications, drawings, blueprints, Photostats and all other information furnished to the Contractor in connection with this Order are and shall remain the property of the CTA. Contractor will keep the same confidential and will not use or reproduce the same except for the performance of this Order, and on completion or termination of this Order or upon the written demand of the CTA, Contractor shall return same. CTA reserves the right to withhold final payment until such return is made.

TERMINATION FOR DEFAULT

CTA may, by written notice of default to the Contractor, terminate the whole or any part of this Contract if the Contractor fails to make delivery of the supplies or to perform the services within the time specified herein or any extension thereof; or if the Contractor fails to perform any of the other provisions of the Contract, or so fails to make progress as to endanger performance of this Contract in accordance with its terms, and in either of these two circumstances does not cure such failure within a period of 10 (ten) days (or such longer period as the Purchasing Manager or designee may authorize in writing) after receipt of notice from the Purchasing Manager or designee specifying such failure.

In the event that CTA elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this Contract, such waiver by CTA shall not limit Procuring Agency's remedies for any succeeding breach of that or of any other term, covenant, or condition of this Contract.

If the Contract is terminated in whole or in part for default, CTA may procure, upon such terms and in such manner as the Purchasing Manager or designee may deem appropriate, supplies or services similar to those so terminated. The Contractor shall be liable to CTA for any excess costs for such similar supplies or services, and shall continue the performance of this Contract to the extent not terminated under the provisions of this clause.

Except with respect to defaults of subcontractors, the Contractor shall not be liable for any excess costs if the failure to perform the Contract arises out of causes beyond the control and without the fault or negligence of the Contractor. If the failure to perform is caused by the default of a subcontractor, and if such default arises out of causes beyond the control of both the Contractor and subcontractor, and without the fault or negligence of either of them, the Contractor shall not be liable for any excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Contractor to meet the required delivery schedule.

Payment for completed supplies delivered to and accepted by CTA shall be at the Contract price. CTA may withhold from amounts otherwise due the Contractor for such completed supplies such sum as the Purchasing Manager or designee determines to be necessary to protect CTA against loss because of outstanding liens or claims of former lien holders.

If, after notice of termination of this Contract under the provisions of this clause, it is determined for any reason that the Contractor was not in default under the provisions of this clause, or that the default was excusable under the provisions of this clause, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to termination for convenience of CTA.

The rights and remedies of CTA provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Contract.

TERMINATION FOR CONVENIENCE

The CTA may terminate this Agreement, in whole or in part, without cause, at any time, by written notice to the Contractor whenever the CTA determines that such termination is in the best interest of the CTA. Upon receipt of written notice of termination, all services and any other performance hereunder by the Contractor shall cease to the extent specified in the notice of termination. In the event of termination in whole, the Contractor shall prepare a final invoice within thirty (30) days of such termination reflecting the services actually furnished pursuant to this agreement to the satisfaction of the CTA and for which no previous invoice was submitted to the CTA. The Contractor shall be paid costs, including closeout costs, and profit for the services performed up to the time of termination. The Contractor shall promptly submit, in accordance with the terms hereof, a termination claim to the CTA and the parties shall negotiate a termination settlement to be paid the Contractor. If the Contractor has any property in his possession belonging to the CTA, the Contractor will account for same, and dispose of it in the manner the CTA directs.

COMPLIANCE WITH LAWS, REGULATIONS AND CODES

If any part of this Specification shall be at date of issue, or shall later become in non-conformity with current or future City, County, State or Federal Laws and/or Codes or Regulations, because of materials or requirements specified therein, Chicago Transit Authority shall have the right to negotiate for and accept or reject substitute materials and/or requirements.

PROMPT PAYMENT TO SUBCONTRACTORS

- A) The Contractor is required to pay all Subcontractors for all work that the Subcontractor has satisfactorily completed, no later than 7 calendar days after the Contractor has received payment from CTA. All of the Contractor's contracts with its Subcontractors must state that the Subcontractor will receive payment within 7 calendar days of the date that the Contractor has received payment from CTA.
- B) In addition, all Retainage amounts must be paid by the Contractor to the Subcontractor no later than 14 calendar days after the Subcontractor has, in the opinion of the CTA's authorized representative, satisfactorily completed its portion of the Work. All of the Contractor's contracts with its Subcontractors must state that the Subcontractor will receive payment of Retainage within 14 calendar days of the date that the Subcontractor has, in the opinion of the CTA's authorized representative, satisfactorily completed its portion of the Work.
- C) A delay in or postponement of payment to the Subcontractor requires good cause and prior written approval of the Director of Purchasing.
- D) The Contractor is required to include, in each subcontract, a clause requiring the use of appropriate arbitration mechanisms to resolve all payment disputes.
- E) CTA will not pay the Contractor for work performed unless and until the Contractor ensures that the Subcontractors have been promptly paid for the work they have performed under all previous payment requests, as evidenced by the filing with CTA of lien waivers, canceled checks (if requested), and the Contractor's sworn statement that it has complied with the prompt payment requirements. Prime Contractors must submit a prompt payment affidavit, (form to be provided by CTA) which identifies each subcontractor (both DBE and non-DBE) and the date and amount of the last payment to such subcontractor, with every payment request filed with CTA, except for the first payment request, on every contract with CTA.
- F) Failure to comply with these prompt payment requirements is a breach of the Contract which may lead to any remedies permitted under law, including, but not limited to, Contractor debarment. In addition, Contractor's failure to promptly pay its Subcontractors is subject to the provisions of 50 ILCS 505/9.

ACCESS TO RECORDS AND REPORTS

The Contractor shall permit and agree to cooperate with the authorized representatives of the CTA, including but not limited to, the CTA's auditors, who may inspect and audit all data and records of the Contractor relating to the Contractor's performance and Subcontractor contracts under this Contract from the date of this Contract through and until the expiration of five (5) years after completion of this Contract.

CTA ETHICS ORDINANCE

The Contractor must comply with the CTA's Ethics Ordinance posted on CTA's website at http://www.transitchicago.com/assets/1/procurement/ethics_code_2009.pdf, the provisions of which are hereby incorporated into this Contract. The Contractor agrees that, any Contract negotiated, entered into, or performed in violation of the Ethics Ordinance must be void as to the CTA.

OTHER AGENCIES

Other local government agencies may negotiate their own agreements with the Contractor based on other terms and conditions in this Agreement. Other such agencies will issue their own contracts directly to the Contractor. Participation by other agencies shall have no adverse effect on the CTA. The CTA will not be responsible for any obligation due from any other agency to the Contractor. The CTA will have no liability for the acts or omissions of any other agency.

OBLIGATION TO COMPLY WITH STATE AND FEDERAL LAW AND REGULATIONS AND CHANGES

The Contractor must at all times comply with all applicable IDOT, RTA and FTA regulations, policies, procedures, and directives, including without limitation those listed directly or by reference in the "Master Agreement" (Form FTA MA (18) dated October 2011 between the Authority and FTA, and any agreements between IDOT and RTA and RTA and CTA, as they may be amended or promulgated from time to time during the term of this Contract. The Contractor's failure to so comply will constitute a material breach of this contract.

SUSPENSION AND DEBARMENT

This Contract is a covered transaction for purposes of 49 CFR Part 29. As such, the Contractor is required to verify that none of the Contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The Contractor is required to comply with 49 CFR 29, Subpart C, and must include the requirement to comply with 49 CFR 29, Subpart C, in any lower-tier covered transaction it enters into.

WAIVER

A waiver by the CTA of a breach of any provision hereof by Contractor or CTA failure to insist on strict performance or observance by Contractor of any provision of this Contract or CTA's rights in any one or more instances, shall not constitute a waiver by CTA in any other instance.

GOVERNING LAW AND CHOICE OF FORUM

The Contractor hereby irrevocably submits to the original jurisdiction of those State or Federal courts located within the County of Cook, State of Illinois, with regard to any controversy arising out of, relating to, or in any way concerning the execution or performance of this Contract. The Contractor agrees that service of process on the Contractor may be made, at the option of the Authority, either by registered or certified mail addressed to the applicable office as provided for in this Contract, by registered or certified mail addressed to the office actually maintained by the Contractor, or by personal delivery on any officer, director, or managing or general agent of the Contractor. The Contract will be governed in accordance with the laws of the State of Illinois, without regard to choice of law principles.

CONFLICTS OF INTEREST

No Board member, officer or employee of the Authority or other unit of local government, who exercises any functions or responsibilities in connection with the carrying out of the Work or the carrying out of the Work to which this Contract pertains, may have any personal interest, direct or indirect, in this Contract or the proceeds thereof.

In accordance with 41 USC § 22, the Contractor agrees that no member of or Delegate to the Congress of the United States, or the Illinois General Assembly and no members of the Chicago Transit Board or Authority employees, may be admitted to any share or part of this Contract or to any private financial interest, profit, or benefit arising here from.

The Contractor covenants that it, its officers, directors and employees, and the officers, directors, and employees of such of its members if a joint venture, and subcontractors presently have no interest and must not acquire any interest, direct or indirect, in the Work to which this Contract pertains, which would conflict in any manner or degree with the performance of the Work hereunder. The Contractor further covenants that in the performance of this Contract, no person having any such interest must be employed by the Contractor.

The Contractor is prohibited from performing any work or services for the Authority under this contract that conflict with work or services that the Contractor performs under any other contract with the Authority. Such conflicts include, but are not limited to, design work for the Project under another contract, supervision or management for the Project under another contract, and review or audit work for the Project under another contract. The restrictions in this paragraph are applicable to all subcontractors. The Contractor has sole responsibility for compliance with this provision. Any violation of this provision is a material breach of the Contract, which is cause for termination.

WAIVER

In the event that either party elects to waive its remedies for any breach by the other party of any covenant, term or condition of this Contract, such waiver shall not limit the waiving party's remedies for any succeeding breach of that or of any other term, covenant or condition of this Contract.

REMEDIES NOT EXCLUSIVE

The rights and remedies of the CTA provided herein shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

COUNTERPARTS

This Contract may be executed in any number of counterparts. All such counterparts shall be deemed to constitute one and the same instrument, and each of said counterparts shall be deemed an original thereof.

SEVERABILITY

Whenever possible, each provision of the Contract shall be interpreted in a manner as to be effective and valid under applicable law. However, if any provision, or part of any provision, should be prohibited or invalid under applicable law, such provision, or part of such provision, shall be ineffective to the extent of such prohibition or invalidity without invalidating the remainder of such provision or the remaining provisions of the Contract.

THIRD-PARTY BENEFICIARIES

No provisions of the Contract shall in any way inure to the benefit of any third party, including the public at large, so as to constitute such person a third-party beneficiary of the Contract or of any one or more of the terms and conditions of the Contract or otherwise give rise to any cause of action in any person not a party to the Contract, except as expressly provided elsewhere in the Contract.

INDEPENDENT PARTIES

The Contractor is an independent contractor with respect to the performance of all Work hereunder, retaining control over the detail of its own operations, and the Contractor shall not be considered the agent, employee, partner, fiduciary or trustee of the CTA.

INTELLECTUAL PROPERTY INDEMNIFICATION

The Chicago Transit Authority shall advise the Contractor of any claim or impending patent suit related to this Contract against the Chicago Transit Authority and provide all information available. The Contractor shall defend any claim suit or proceeding brought against the Chicago Transit Authority based on a claim that any equipment, or any part thereof, furnished under this Contract constitutes an infringement of any patent, and the Contractor shall pay all Chicago Transit Authority damages and costs resulting therefrom, excluding incidental and consequential damages. In case said equipment, or any part thereof, is in such suit claimed to constitute infringement and use of said equipment or parts is enjoined, the Contractor shall, at its own expense and at its option, either procure for the Chicago Transit Authority the right to continue using said equipment or part, or replace same with non-infringing equipment, or modify it so it becomes non-infringing.

ASSURANCE OF COMPLIANCE WITH 49 CFR PART 26

The Contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the Authority deems appropriate.

The Contractor agrees to include this assurance in all subcontracts.

CIVIL RIGHTS REQUIREMENTS

The following requirements apply to the underlying Contract:

- 1. Nondiscrimination: In accordance with Title VI of the Civil Rights Act, as amended, 42 USC § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 USC § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 USC § 12132, and Federal transit law at 49 USC § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.
- 2. **Equal Employment Opportunity:** The following equal employment opportunity requirements apply to the underlying Contract:
 - Race, Color, Creed, National Origin, Sex: In accordance with Title VII of the Civil Rights Act, as amended, 42 USC § 2000e, and Federal transit laws at 49 USC § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 CFR Parts 60 et seq., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 USC § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
 - b. Age: In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 USC §§ 623 and Federal transit law at 49 USC § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
 - c. Disabilities: In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 USC § 12112, the Contractor agrees that it will comply with the requirements of U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 CFR Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
- 3. The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.

CHICAGO TRANSIT AUTHORITY Advertisement for Professional Services

NOTICE OF TIME EXTENSION WITH ADDENDUM TO FOLLOW

Notice is hereby given that the proposal date heretofore advertised as Thursday, February 7, 2013 has been extended to Thursday, February 14, 2013 no later than 3:30 P.M. in the Bid Office, 2nd Floor, 567 W. Lake, Chicago, IL 60661-1498 for the following items:

Req. C12RI101317082
Request for Proposals (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series Railcars.

For additional information, please contact Timothy Polacek, Procurement Administrator, at (312)681-2481.

Any contract resulting from this bid is subject to a financial assistance between the Chicago Transit Authority, the United States Department of Transportation and the Regional Transportation Authority.

The contractor will be required to furnish certified copies of any and all Insurance Policies required in relation to this contract prior to CTA's execution.

Contractor will be required to comply with all applicable Equal Employment Opportunity laws and regulations and affirmative action requirements of the Federal Transit Administration and Illinois Human Rights Commission.

All bidders will be required to certify that they are not on the Comptroller General's list of ineligible contractors.

Chicago Transit Authority hereby notifies all bidders that it will affirmatively ensure that in regard to any contract entered into pursuant to this advertisement, Disadvantaged Business Enterprise will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color or national origin in consideration for an award.

PLEASE NOTE: Where bids are sent by mail, delivery service or delivered in-person to the CTA Bid Office, the bidders shall be responsible for their delivery only to the Bid Office before the advertised date and hour for the opening of the bids. The Bid Office hours are Monday through Friday from 8:00 a.m. to 4:30 p.m. Chicago time, except holidays.

The right is reserved to accept any bid or any part or parts thereof or to reject any and all bids.

All inquiries should be directed to and copies of bid documents obtained from the Bid Office -2^{nd} Floor, 567 W. Lake Street, Chicago, Illinois 60661-1498.

CHICAGO TRANSIT AUTHORITY

By: Ellen McCormack Vice President Purchasing



567 West Lake Street Chicago, Illinois 60661-1498 TEL 312 664-7200 www.transitchicago.com

Date:

January 31, 2013

TIME EXTENSION

Subject:

Requisition No. <u>C12RI101317082</u> – Request for Proposal (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series

Railcars.

The bid opening date for C12OP101249251 will hereby be extended from Thursday February 7, 2013 to Thursday February 14, 2013 at 3:30 p.m., local Chicago time.

Addendum with responses to vendor questions to follow.

If you have any questions, please contact Mr. Timothy Polacek of my office at (312) 681-2481.

Sincerely,

Gelene Brown

Director of Purchasing

CC:

E. McCormack

G. Brown

K. Brosnan

Contract File (C12RI101317082)



567 West Lake Street Chicago, Illinois 60661-1498 TEL 312 664-7200 www.transitchicago.com

Date:

January 22, 2013

ADDENDUM #4

Subject: Requisition No. C12RI101317082 - Request for Proposal (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series Railcars.

We are enclosing Addendum No. 4 for the subject requisition:

Below are notes that are meant to clarify sections of the RFP. Attached is a list of proposer questions with corresponding answers provided by the CTA.

1. Reference: PROPOSER QUESTIONS

Attached is a partial list of proposers' questions and CTA's answers. More proposer questions will be answered in subsequent addenda.

2. Reference: DRAWINGS

These previously excluded drawings have been attached to this addendum:

R-2-1316

R-2-679

4509.04.066.003

R-1-1611

R-3-1621

3. Reference: SPECS

These previously excluded Detailed Specification have been attached to this addendum:

Spec 9626-08

Spec 9751-11

Please acknowledge receipt of Addenda's No. 1, No. 2, No. 3 & No.4 on the Proposal page titled Bidders Signature Page. Failure to acknowledge receipt of any addenda may cause your bid to be nonresponsive.

The proposal due date remains Thursday, February 7, 2013, 3:30 p.m., local Chicago time.

If you have any questions, please contact Mr. Timothy Polacek of my office at (312) 681-2481.

Sincerely. dlla Mc Cormack

Ellen McCormack

Vice-President, Purchasing & Supply Chain

Enclosures (8)

cc: E. McCormack

K. Brosnan

Contract File (C12RI101317082)

C12RI101317082

Ad	8 Q	7 0.1	0	5 S & ≥	4	ω ZD	2 Si A	0	#
Additional MPNs	Quantities	Part Confirmation (3)	Part Confirmation (2)	Alternate Sources	Distributor	Re-Engineering	Approved Sources	Obsolete Items	Subject
Do you have additional part numbers to clarify which parts are actually required for the following lot numbers (the ones provided are not complete)? Atlanta India Rubber CO #4163518. Bauer Springs #4003011. Belden MFG #3104674. Catamount (not Calamount) #3148353	to have c" and	CAMFIL-FARR # 403383300 CAMFIL does not recognize this part number you provided.	number.		د .		(Proposer) has noted that in several cases vendors which have supplied CTA lot numbers under existing or past contacts are not necessarily noted. Will the CTA allow a detailed discussion of this after award of the contract to increase the potential supply sources?	If den ent in t und what will be the process if any of the parts included in the bill of materials are obsolete or out of Adapp	PROPOSER QUESTION:
For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-010 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.	See Revision to the pricing table provided by purchasing which spells out that we <u>need parts to overhaul 100 railcars.</u> Some BOMs are for a unit, some BOMS are for a car and some are piece part quantities for the entire project.	The updated CAMFIL MPN is 314000-300	The updated CAMFIL MPN is 314000-300	See the approved parts list or use the drawing to procure locally.	Yes	Yes	Only the manufacturers noted in the BOM and/or any subsequent addenda can be used, unless a drawing number is provided on the BOM.	If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers	RESPONSE

18	17	16	15	14	13	12	11	10
Mounting Bracket	Hydraulic Adapter II	Part Number	Supplier Source	Supplier Source	Alternate Sources II	Overhaul Plan	Extending Initial Delivery Date	Additional Info MPNs
Lot Num. 4003218 BRACKET, MOUNTING, QUICK DISCONNECT Morrison-Knudsen no longer supplying, is alternative possible? Need drawing. (R-BOM-002- Mechanical)	Hydraulic adapter with quick release. Can you please provide drawing & specification? (R-BOM-002- Mechanical)	Lot Num. 4303086 WASHER: PLAIN, TYPE B, 5/16" BOLT SIZE, .344" ID, .875" OD, STAINLESS STEEL, TYPE 302, 303 OR 304.REF.BOEING STANDARD ST 72101-C35. Is Boeing Standard ST 72101-C35 the approved vendor and part number? (R-BOM-002-Hardware)	Lot Num. 4156565 SEAL: FLARETITE, FOR 3/8", 37 DEGREE JIC FLARE FITTING. Can you please provide vendor name & contact or drawing? (R-BOM-002-Hardware)	,	Can (Proposer) use their own suppliers using CTA's drawings instead of sending the RFQ's to European suppliers or other vendors that no longer exist? If so is a FAI required?	Has CTA already taken these cars out of service or will you be removing them from service as new cars are delivered, and if so would my suggestion work more appropriately with such a timeframe?		Do you have technical specifications and drawings for the following products (the part numbers provided do not exist in their systems)? Boeing #4003192, 4003207, 4183010, 4003174, 4003177, 4183008, 4183017, 4003173. Bombardier #4002610, 5142676, 3072618. Bowers #4003087. Budd CO #3072626, 3104677, 3104678, 4162610, 5142621, 5142622, 5142626, 5142628, 5142634, 5142656, 5142659, 3102623, 4003299, 3072615, 3072619, 3072619, 3072620, 4002610, 5142660, 5142676, 3072618, 4183008. Continental Arrow #4003005 Delta Screw #4003005 Dennison MFG #3148353 DJ Metal #4002673 Engineering Products #4003023
See Drawing R-2-1316 attached to Addendum 4.	Please reference Addendum 3 item # 5.	This is commercial hardware.	Eaton or Parker could supply this item.	AMP, MAC Products, Trans Technik all listed as approved alternate sources on the BOM.	Supplier may go to any manufacturer with CTA print to obtain parts. The FAI will be the sample kit, however CTA would entertain some pre-production samples prior to the kits, within reason.	Cars will be removed from service as needed and put back into service when completed.	This is not acceptbale to CTA. Contractual delivery dates need to be adhered to.	For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-010 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.

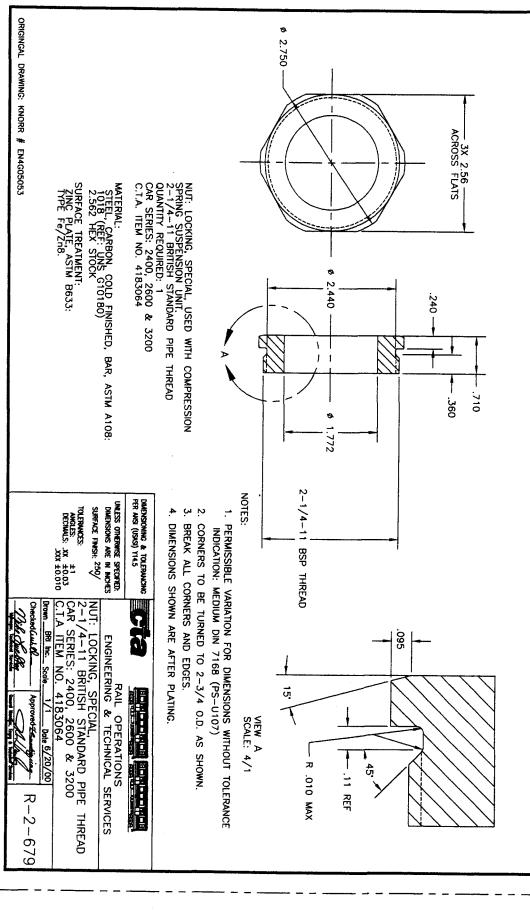
28	27	26	25	24	23	22	21	20	19
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Elbow	Contact	Nut	Conical Spring Type Washer	Rod Assembly	Luck Nut II	Lock Nut	Steel Stud	Cotter Pin	Locking Nut
Lot Num. 4162675 ELBOW 90 DEG. 7/16 ORB 3/8 TUBE (ADJ.) /37 DEG. Checked with Aeroquip, the proposed manufacturing PN 2062-4-6S does not exist. The number corresponds with the description is 2062-16-12. Can you please confirm? (R-BOM-080)	Lot Num. 5155040 CONTACT: FINGER, FOR TRUCK COUPLER PLUG SYSTEM 17MP10K2, GE CONTACT FINGER P/N 41A265467P2 SPEC. NO: 9751 DRAW. NO: R-2-1679 REV. NO: 3. Can you please provide CTA Spec # 9751? (R-BOM-002-Hardware)	Lot Num. 4003204 NUT, HYDRAULIC SYSTEM INSTALLATION, FOR WEGMANN TRUCK ASSEMBLY. REF: BOEING VERTOL PARTS LIST 3-4-58. Can you provide BOEING Spec? (R-BOM- Cannot provide the Boeing Spec.) 8002- Mechanical	TA SPEC. OR ECIFIED Spec	2	Lot Num. 4003049 ELECTROPLATED, GRADE "C" OR "8", IFI 100/107NUT: LOCK, HEAVY THIN HEX, 1"-8 (3B) NYLON INSERT, PREVAILING TORQUE, ZINC Vendor would like to know if the finish is cadmium, zinc or plain? (R-BOM-002- Gear Suspension)	Lot Num. 1111715 NUT: LOCK, 3/4-10-3B STEEL, GRADE B, PREVAILING TORQUE NYLON TOP INSERT TYPE, HEAVY, THIN HEIGHT. PER IFI 100/107 WITH APPROPRIATE MARKINGS (WHICH IS COMPARABLE TO GR-5 PER SAE J995.) ZINC ELECTROPLATED Vendor would like to know if the finish is cadmium, zinc or plain? (R-BOM-002-Hardware)	Lot Num. 5202601 STUD: STEEL, CADMIUM OR ZINC PLATED, 3/4 - 16 X 2-3/4", THREADED 5/8" ON TAP END AND 3/4" ON NUT END, FOR MOUNTING HYDRAULIC SYTEM BRACKET ON CALIPER Can you please provide vendor with more info: drawing or a manufacturing PN? Unable to quote with just the description. (R-BOM-002- Mechanical)	Lot Num. 1190241 PIN: COTTER, 3/16" X 1-1/4" STEEL Vendor needs more info - stainless steel or zinc plated? (R-BOM-002-Horizontal Motor Suspension)	4183066 - Spring for the track brake suspension (3 versited) 4183064 - Spring for the track brake suspension (3 versited) 4183064 - Should be made with the can as all assembly; NUT: LOCKING, SPECIAL, 2-1/4" - 11 Eassembly; NUT: LOCKING, SPECIAL, 2-1/4" - 11 Ea
Flow Products provided the Aeroquip 2062-4-6s to CTA as late as Sept-2012.	See Spec 9751-11 attached to Addendum 4.	Cannot provide the Boeing Spec. There are 2 approved sources list on the BOM.	Spec 9626-08 has been attached to Addendum 4. Use this Specification and Description.	Siemens Transportation has the wegmann part rights. Previously purchased from HALL INDUSTRIES 4003109	Zinc Plated	PER THE DESCRIPTION: Zinc Plated	Zinc Plated Steel Rod with 2 different thread pitches on each end as described	Zinc Plated Steel	4183066 - Spring for the track brake suspension (3 vendors listed) 4183064 - Should be made with the can as an assembly: NUT: LOCKING, SPECIAL, 2-1/4" - 11 BRITISH STANDARD PIPE THREAD, 1018 STEEL USED WITH COMPRESSION SPRING SUSPENSION UNIT, FOR MAGNETIC TRACK BRAKE, REF: KNORR BRAKE DWG. #EN4G05053. SPEC. NO: 5165 DRAW. NO: R-2-679

38	37	36	35	34	33	32	31	30	29
Approved Supplier Webpage	Proximity Sensor II	Proximity Sensor	Electric Wire	Polyvinyl Chloride Tubing	ATC Junction Box	Cam	Shim	30 Neoprene Hose	Mounting Bracket II
Are these suppliers listed on your "approved supplier" webpage?	Proximity Sensor II Lot Num. 5143206 Proximity Sensor Part number DW-AD-603-M18-718 can you please confirm the temperature range of -40C to MINIMUM of 110C, is this correct? (99 Mixed Items Materials)	Lot Num. 5143206 Proximity Sensor Part number DW-AD-603-M18-718 does not jive with the specifications despite being an approved part according to Section 5.1, can you please confirm we have the correct part number? (99 Mixed Items Materials)	Lot Num. 3102622 WIRE: ELECTRIC, 600V, ONE CONDUCTOR, WHITE EXANE INSULATED, #12, STRANDED COPPER WIRE. What drawing should be used R-4-1556 or R-4-1590? (R-BOM-002-Electrical)	Lot Num. 3148298 Tubing: Polyvinyl Chloride. CTA provided HS105C as the ordering information but this is the name of the type of tubing. For us to provide a quote we need the spec including the inside Dia. Wall thickness & color. Can you provide us with this information? (R-BOM-002-Electrical)	Can you lease provide Drawing and or spec for the ATC Junction Box Assembly including Terminal Board? (R-BOM-002- Electrical)	Lot Num. 5141164 CAM: LOADING, WITH DIAL INDICATING Moore Addison will not supply the Alum. Dial plate. Has part has been supplied in the past to CTA without plate? (R-BOM-030)	Lot Num. 5141316 SHIM: BETWEEN STOP AND CAM. 0-030" THK. GE (6703140P1) -this part has never been supplied by GE to CTA and is obsolete. Can you please provide alternative vendor & drawing? (R-BOM-030)	BLACK NEOPRENE HOSE 4099-0754/60-2 Vendor sells this item in 50 ft rolls. 1 pc is one 50 ft roll. What length is needed? (Lot item 1928013 on R-BOM-040)	Lot Num. 4003102 BRACKET, MOUNTING, STOPPING BUFFER Wegmann US cannot identify the part as Wegmann Germany had sold the rights to other company. Can you please provide vendor info OR drawing? (R-BOM-002- Mechanical)
We are unfamiliar with the existence of a CTA Purcahsing "approved suppliers" webpage.	Operating Temp. Range of -40 deg. C to + 110 deg. C is correct.	Contrinex part number DW-AD-603-M18-718 is correct. It is a part specially made for the CTA.	3102622 is wire. NEED ASSEMBLY found on drawing R-4- 1590.	Per the description; TUBING: POLYVINYLCHLORIDE, FLEXIBLE, 50% HEAT SHRINKAGE. NOMINAL SIZE EXPANDED 0.375". NOMINAL SIZE AFTER SHRINKAGE 0.1875", BLACK. PCK. INFO: FT 1 FT PCK. INFO: FT 1 FT Expanded .375" and Shrunk .1875, color black.	Drawing is listed in BOM R-3-1621, see drawing attached to Addendum 4. Terminal board has approved sources listed on BOM.	Lot number is to be removed from BOM per Addendum 4.	Drawing R-1-1611 has been attached to addendum 4.	100 FT.	Drawing provided; 4509.04.066.003. has been attached to addendum 4.

42	41	40	39	38
Individual Part Proposals	Consistency of Language	DBE Suppliers List	RFP Paperwork/ Signatures	Approved Supplier Webpage
Can (Proposer) bid the complete contactors and LV66 relays directly to CTA in an effort to have these parts competitvely bid and result in a lower cost for CTA?	Could the Chicago Transit Authority please elaborate on the precedence of the various documents within the RFP? For example the issue of warranty is addressed in the "Detail Specification", the "Contract for Supply Special Conditions" and the language in each section is not fully consistent. (pages 26 and 87)	In the DBE package the Bidder List template is attached. This opportunity will involve a lot of suppliers and part of them proposed by CTA; based on that, is it necessary to provide the complete suppliers list?	"Signed copies of all CTA certification forms provided in Appendix H. Additionally, please include completed Ownership, Lower-Tier Debarment Certification forms and Subcontractor RFP Non-Disclosure forms, as required, for any proposed subcontractors." It is request "Additionally" the Appendix H to include Ownership, Lower-Tier etc These documents seem already included in the list of Appendix H so It is not clear if there are some missed documents. To avoid any misunderstanding we request to CTA to confirm that the requested documents are the follow: • Certification of Primary Participant Regarding Debarment • Certification of Lower Tier Participant(s) Regarding Debarment • Certification Regarding Lobbying • Proposer's Execution Signature Page • Disclosure of Ownership • RFP Non-Disclosure Statement • RFP Non-Disclosure Statement sub-consultant. Please, confirm as well that the below documents must be signed by all suppliers: • Certification of Lower Tier Participant(s) Regarding Debarment • RFP Non-Disclosure Statement sub-consultant.	Are these suppliers listed on your "approved supplier" webpage?
No, only items listed on the Proposal Page can be bid individually. With kits, the entire kit must be bid, no proposals containing only pieces from this kit will be accented	The special conditions take precedence over Detail Specifications. Warranty requirements will be the sole exception. If an indivdual detailed specification calls for a longer warranty, the longer warranty will be required for that item.	Yes, a complete suppliers list will be required. If the list is longer than the 8 lines provided on the template, you can attach an excel printout with all of the required information for each firm.	The referenced statement pertains to the Price Proposal for this contract. All forms in Appendix H should be filled out in full by the prime vendor as stated. The "additional" language is to note that the Ownership, Lower-Tier Debarment Certification forms and Subcontractor RFP Non-Disclosure forms should be filled out for ALL subcontractors as well. To confirm your statement, the documents you have listed are all the documents in Appendix H and must be completed. Also, we confirm that both the Lower-Tier Debarment Certification forms and Subcontractor RFP Non-Disclosure forms must be completed by all suppliers.	We are unfamiliar with the existence of a CTA Purcahsing "approved suppliers" webpage.

48		47	46	45	44	43
		(0.5	10 >	 		
	Initial Delivery	Source II		Junction Box adhesive	Junction Box	Weighted Matrix for Criteria
Could CTA provide more detail regarding the project start up? (page 6)	"The initial material delivery must contain enough material for the overhaul of 22 cars." Does CA envisage the delivery of all 22 sets at one time in the initial delivery?	If the information is too comprehensive, will the CTA simply identify (vendor) as a vendor for their approved components?		The adhesive (3072618) used to glue the gasket to the cover is specified as MIRACLE — TYPE P. We cannot identify this adhesive. Can you please provide complete manufacturer's data sheet for the adhesive?	Lot Num. 3072618 Cover Assy, ATC Junction Box On drawing R-3-1622, there is no vendor information for the gasket used on the junction box cover. Can you please provide complete specifications for the gasket material including type of neoprene (solid or sponge, closed cell, open cell, durometer etc.)?	In Section IV (Evaluation Criteria) of the RFP, the discussion is mentioned on "Delivery Plan Commitment" and "Qualifications of Firm and Personnel". Can the CTA provide a weighting matrix on these attributes along with cost weighting so we have a clear idea of the total evaluation method to get to the "Best Value"?
The 22 sets should all be delivered at one time.		See response to #46 above.	Part list provided is not associated or included in this project. These parts are not included in this project and will not be addressed at this time.	Correct part should be; Pres-On MPN -P8112. Pres-On, Addison, IL 60101, 800-323-7647	This has been updated for ease of installation and procurement. The gasket and adhesvie should be procured as one assembly and applied to the cover.	The technical criteria of "Delivery Plan Commitment" and "Qualifications of Firm and Personnel" will be evaluated at equal importance. Price will be evaluated after the technical evaluation.

Addendum #4



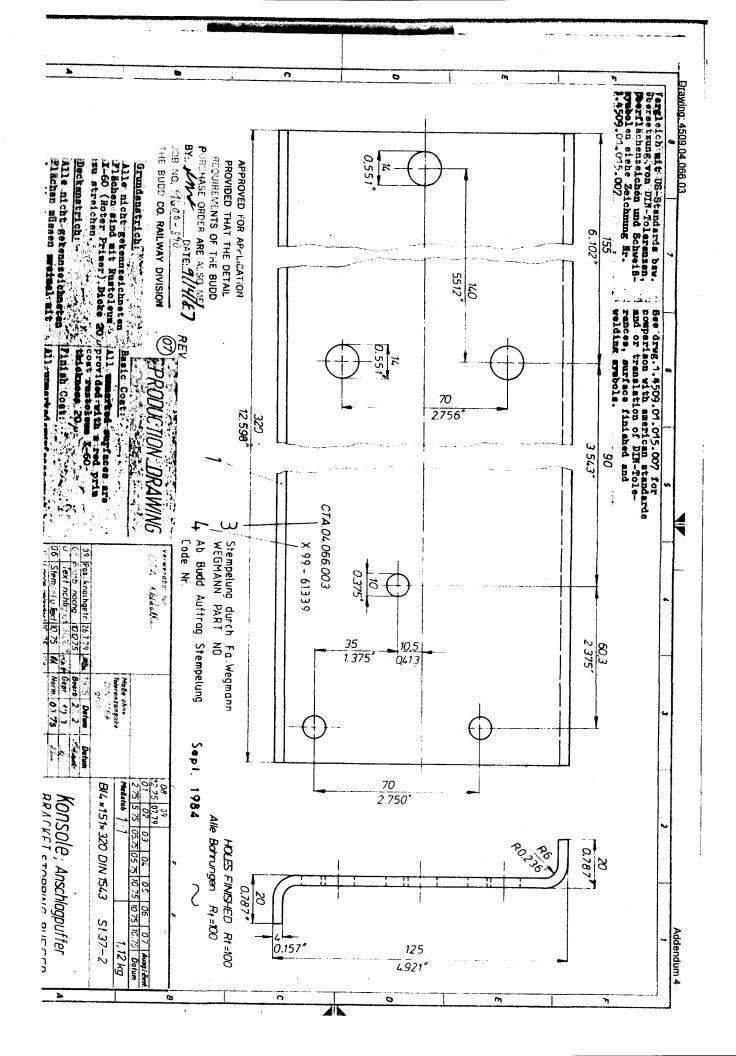
BRI DRAWING I.D.: 0231-001.DWG



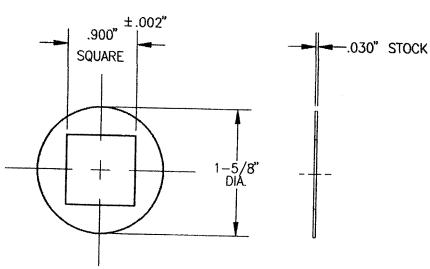


addendum #

4







SHIM: BETWEEN STOP & CAM, .030" THK. FOR G.E. 17KM48L1 CONTROLLER

ONE (1) REQ'D. PER CONTROLLER

CAR SERIES : 2400 C.T.A. LOT NO. 5141316

MATERIAL: .030" THICK VULCANIZED FIBER

PER ASTM D 710, ELECTRICAL GRADE, MEDIUM DENSITY

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED SURFACE FINISH ~UDIMENSIONS ARE IN INCHES

TOLERANCES: ANGLES ± 70 FRACTIONS: ± 1/32"
DECIMALS: .XX ± 70 .XXX ± 70

RIVET & BOLT MARGIN: ±.05 BEND RADII: ±.02 ON .03 & .06 ±.03 ON .09 & GREATER

SHEET METAL CORNER RADII: INT .19 EXT .25 .16 .00 Cta



RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

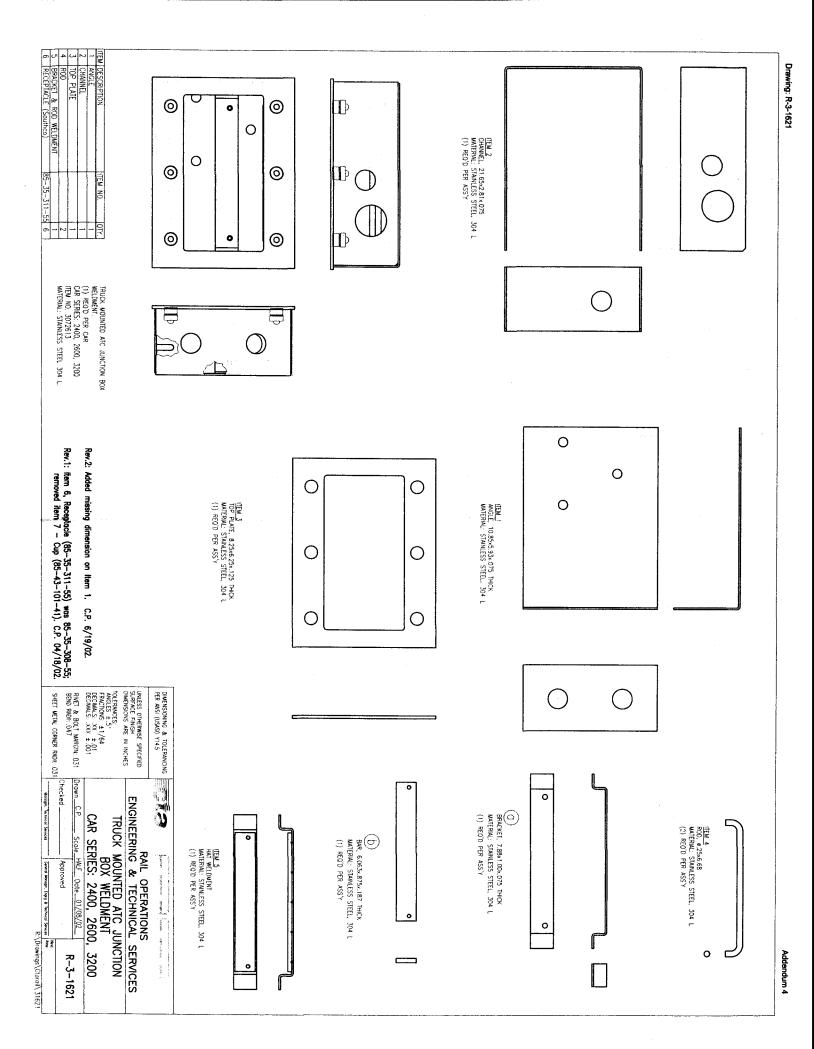
SHIM: BETWEEN STOP & CAM, .030" THICK, FOR G.E. 17KM48L1 CONTROLLER CAR SERIES: 2400

Checked Horon Jak Approved

R-1-1611

4/24/95 Next G.E. P/L GEG-25501 chridge Services Assy. PAGE 5, REF NO. 221

ORIGINAL G.E. PART NO. 6703140P



CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR WASHERS: CONICAL SPRING, VARIOUS SIZES

SPECIFICATION NO. CTA 9626-08

1. SCOPE

1.1 This specification will describe the requirements for a Contractor to furnish various sizes of conical spring washers, also known in the industry as heavy duty safety washers for bolting applications, to be used with SAE Grade 5 and Grade 8 bolts and screws (metric property classes 8.8 and 10.9) fastening assemblies.

2. GENERAL INFORMATION

- 2.1 The size of the washer to be furnished, and the approved manufacturers and their part numbers will be indicated in the Bid Proposal pages of the Contract Documents under the respective CTA Item Number (part no.).
- 2.2 The Contractor shall use the most recent version of the industrial standards referenced in this specification that are published as of the time of Invitation for Bid.

3. <u>DETAILED REQUIREMENTS</u>

- 3.1 Except for the special requirements specified in Article 3.1.1 and 3.1.3, the conical spring washers shall meet the dimensional and tolerance requirements specified in DIN 6796. In addition, the conical spring washers furnished shall meet the Technical delivery conditions per DIN 267, Part 26 for steel spring washers conforming to DIN 6796.
- 3.1.1 The washers furnished shall be manufactured from 51CrV4 spring steel per DIN 17221 or 17222 (or AISI/SAE 6150 spring steel), rather than the commonly used C60 spring steel per DIN 17222 (or SAE 1060 spring steel).
- As specified in Table 1 of DIN 267, Part 26, conical spring washers shall exhibit a Hardness Vickers (HV) of 420 to 510 (43 to 49 HRc).
- 3.1.3 The conical spring washers furnished shall be suitable for a working temperature range of -50°C to +100 °C (-58°F to 212°F) rather than the normal -20°C to +100 °C (-4°F to 212°F) commonly exhibited by standard conical spring washers.

3. <u>DETAILED REQUIREMENTS</u>(Cont.)

- 3.2 Washers to be cold stamped, tumbled, and fully deburred. The tests for permanent set and permanent load shall be performed as specified in DIN 267, Part 26. Washers that have been machined to obtain their convex and concave features shall not be accepted.
- The protective surface coating shall be Dacromet® 320, Dacromet® 320 LC or Geomet (ASTM F1136 & ASTM F1136M).
- 3.4 Alternate materials and coatings to those specified in Articles 3.1 and 3.3 must be approved in writing by the Manager of Rail Technical Services.

4. MARKINGS

- 4.1 All conical spring washers furnished shall be legibly marked with indelible ink on the concave surface of the washer, with the following information.
 - The Manufacture's company name and/or logo (if Manufacturer has a logo).
 - The Supplier's company name and/or logo (if Manufacturer and Supplier are not one in the same).
 - The date of manufacture for each batch of washers.
 NOTE: Date shall not be in Supplier's or Manufacturer's code. Date shall be identified by month (numerical is acceptable), day, and year (last two digits of year is acceptable).
- 4.2 Gummed labels are unacceptable.
- 4.3 Markings shall be printed using a color of ink that will be easily read against the color of the protective coating.

5. RECORD OF COMFORMANCE

- 5.1 The Contractor shall supply a Record of Conformance with each lot of conical spring washers delivered.
- 5.2 The Record of Conformance shall contain the following information:
 - a) The name and address of the Manufacturer, or the name and address of the Supplier if the Manufacturer and Supplier are not one in the same.
 - b) A description and nominal size of the conical spring washer.
 - c) The CTA item number.
- 5. <u>RECORD OF COMFORMANCE</u> (Cont.)

5.2 Required Record Information (Cont.)

- d) The CTA requisition number.
- e) The standards or specifications to which the lot of conical spring washers has been manufactured, including the date, number, revision and other information sufficient to identify the particular standards or specifications being referenced.
- f) The chemistry and grade of material.
- g) The results, or a summary of results, of any tests performed for the purpose of verifying that the lot of conical spring washers furnished conform to the requirements specified in Section 3 of this specification.
- h) The coating material, method of application.
- i) Verification that the proper procedures were performed after surface preparation prior to coating, to ensure the washers furnished are absent of hydrogen embrittlement, and a detailed description of the tests performed for brittle failure.

6. <u>APPROVED AND NON-APPROVED ITEM INFORMATION</u>

- 6.1 Under the terms of a given contract, the Contractor shall only furnish and deliver CTA approved conical spring washers found in the Approved Manufacturers list associated with the respective CTA Item Number description.
- 6.2 Should a potential Contractor wish to offer for CTA consideration an alternate conical spring washer not currently approved, the potential Contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process:
- 6.3 The time required for reviewing and/or testing each conical spring washer offered will vary and depend on applicable procedures.
- 6.4 Approval of the proposed conical spring washer(s) does not guarantee an order under a currently proposed or future contract.
- 6.5 Upon award of a contract, each conical spring washer furnished by the Contractor shall be identical to the conical spring washer(s) that was (were) approved.

7. <u>ADDITIONAL INFORMATION FOR POTENTIAL BIDDERS</u>

CTA 9626-08

7.1 Bidders requiring additional information shall contact the Procurement Administrator listed on the front page of the Contract Document or the Commodity Buyer listed in the RFQ. Potential Bidders requiring additional information from a person or persons listed in the Special Conditions must route their requests through the Procurement Administrator or Commodity Buyer. Potential Bidders who contact any Authority personnel other than the Procurement Administrator, or Commodity Buyer will be considered in violation of the provisions of the Contract Document.

Distribution: Mgr., Technical Services - Rail.

MD/md - Initial Specification - 11/13/07 MD (Q.A.)/CJ/cj (T.S. Rail) - 1st Revision - 02/29/08

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

CONTACT FINGERS; GE 17MP10K1 COUPLER PLUG APPLICATION

SPECIFICATION NO. CTA 9751-11 CTA ITEM NOS. 5155040 & 5155041

1. <u>SCOPE</u>

1.1 This specification will describe the requirements for a contractor to furnish and deliver contact fingers which are used in the General Electric (GE) Brand Model 17MP10K1 coupler plugs found on 2400, 2600, & 3200 series rail cars in operation at the Chicago Transit Authority (CTA).

2. <u>DETAIL REQUIREMENTS</u>

- 2.1 The contact fingers shall be manufactured per the information on CTA Drawing R-2-1679.
- 2.2 As indicated on CTA Drawing R-2-1679, the contact fingers furnished shall be fabricated from UNS C11000 Electrolytic Tough Pitch (ETP) copper, and have an electrodeposited silver finish.
- 2.3 The ETP copper used in the fabrication of the contact fingers shall meet the requirements specified in ASTM B 187 for H04 tempered copper bar. The contact fingers shall be prepared for silver electroplating per standard practices outlined in ASTM B 281. The silver electrodeposited coating shall be a minimum of 0.0002" thick, and meet the following classifications as specified in ASTM B700.
 - Type 1 purity
 - Grade A or D surface appearance
 - Class S supplementary surface treatment.
- 2.4 The current revision or version of the CTA Drawing number mentioned above, and the current revision or version of the ASTM standards mentioned above, in effect at the time of a given Invitation For Bid (IFB) is posted, shall apply.
- 2.5 When indicated in the Contract Documents or in the IFB package, the contractor shall submit, with each shipment, Certificate of Compliance paperwork verifying that the material and the silver electroplating used in the contact finger's manufacture meet all the requirements presented in CTA Drawing R-2-1679 and in this specification.

CTA 9751-11

3. <u>ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS</u>

3.1 Potential contractors requiring additional information shall contact the Procurement Administrator or Buyer whose name is listed in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

DISTRIBUTION: Mgr., Technical Services - Rail

MD/md - Initial Specification - 08/22/08 HHP / hhp - 1st Revision - 11/23/11



567 West Lake Street Chicago, Illinois 60661-1498 TEL 312 664-7200 www.transitchicago.com

Date:

January 17, 2013

ADDENDUM #3

Subject: Requisition No. C12RI101317082 – Request for Proposal (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series Railcars.

We are enclosing Addendum No. 3 for the subject requisition:

Below are notes that are meant to clarify sections of the RFP. Attached is an updated Price Proposal Form that includes changes. Also attached is an illustrated Parts Catalog for R-BOM-060. Finally attached is an initial list of proposer questions with corresponding answers provided by the CTA.

1. Reference: Price Proposal Form

Attached is an updated Price Proposal Form. This form shall replace the price proposal form that was originally included in the RFP bid package. This updated form includes a note of clarification that states, "All Quantities Required Represent Enough Material to Perform 100 Railcar Overhauls".

2. Reference: Price Proposal Form

Additionally, on the attached updated Price Proposal Form, the Quantity Required for Line # 11 "Sensor: Proximity" has been increased from 1,400 sensors to 1,600 sensors. The changes to this page have been highlighted.

3. Note: MIXED ITEM MATERIAL LIST

The Quantity Required for Lot Number 5143206 should be increased from 1,400 to 1,600 on the BOM titled MIXED ITEM MATERIAL LIST.

4. Note: R-BOM-002- ELECTRICAL page 13

The quantity per kit of Lot Number 4243298, which was previously increased in Addendum 1, should be decreased from 6 to 5 on page 13 of R-BOM-002-ELECTRICAL.

5. Note: R-BOM-002- MECHANICAL page 10

The line with the description "Hydraulic adapter with quick release" will not be needed for this kit and should be removed from page 10 of R-BOM-002- MECHANICAL.

6. Reference: PROPOSER QUESTIONS

Attached is a partial list of proposers' questions and CTA's answers. More proposer questions will be answered in subsequent addenda.

7. Reference: R-BOM-060 ILLUSTRATED PARTS CATALOG

Attached is an illustrated parts catalog for the GE Control Group Kit R-BOM-060 in reference to proposer question #7.

Please acknowledge receipt of Addendum No. 3 on the Proposal page titled Bidders Signature Page. Failure to acknowledge receipt of **any addenda** may cause your bid to be non-responsive.

The proposal due date remains Thursday, February 7, 2013, 3:30 p.m., local Chicago time.

If you have any questions, please contact Mr. Timothy Polacek of my office at (312) 681-2481.

Sincerely,

David Johnson

Vice-President, Purchasing

Enclosures (18)

CC:

D. Johnson

K. Brosnan

Contract File (C12RI101317082)

Price Proposal Form

Line #	Description	BOM#	Qty Req'd	Extended Price *	A
1	Kit: Truck overhaul	R-BOM-002	50		Avg Unit Price **
2	Kit: Master controller overhaul	R-BOM-010	50	\$	\$
3	Kit: CAM group overhaul	R-BOM-020	50	\$	\$
4	Kit: Cams, plates, gears, spacers	R-BOM-030	50	\$	\$
5	Kit: Traction motor	R-BOM-040	50		\$
6	Kit: A/C unit overhaul	R-BOM-050	100	\$	\$
7	Kit: Control group contactors	R-BOM-060	50		\$
3	Kit: Door relays and switches	R-BOM-070	50	\$	\$
9	Kit: HPCU Rebuild	R-BOM-080	100	\$	\$
10	Kit: Threshold, self-cleaning	11-BOW-000	400	\$	\$
11	Sensor: Proximity		1,600	\$	\$
12	Encoder: Incremental		100	\$	\$
13	Track: Side door		800	\$	\$
4	Operator: Door, complete	 	400	\$	\$
5	Spring: Carbody, inner		400	\$	\$
	Spring: Carbody, outer		400	\$	\$
6	Reverser: New style			\$	\$
		L	100	\$	\$

Notes

All Quantities Required Represent Enough Material to Perform 100 Railcar Overhauls

* Bas	is of	Eva	luation
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** (Extended Price / Qty Req'd) Individual Pricing Proposal

Discount for Bundling Line Items

Discount	Line items included (1 through 16)
%	
%	
%	

Complete Sourcing Pricing Proposal

All material required	All Lines	\$

Signature of Authorized Official	Date

GE CONTROL GROUP KIT - R-BOM-060

		OT 1011 - 10-10-101-00		- T	Γ	QTY
DESCRIPTION BREAKER: U/E LINE, ASSEMBLY, USED ON CONTROL	APPROVED VENDORS (PART #'S)			LOT NUM.	иом	PER UNIT/
CONTACTOR: U/E SERIES "S" AND "M3" FOR CONTROL	GE (17JM7S421)	NA NA	NA NA	5153200	PC	13.
RELAY: U/E CONTROL ASSEMBLY, GE17V66DR510	GE (17CM53AF18)	NA	NA NA	5153248	PC	4
CONTACTOR: FS 1-4, FOR 26, 32 MAIN	GE (17LV66DR51D) GE (17CM57BB5)	NA NA	NA NA	5153009	PC	2
CONTACTOR: RC 1-4, FOR 26, 32	GE (17CM57BC5)	NA NA	NA NA	5020110	PC	8
CONTACTOR: U/E TBC, USED ON 2600 MAIN	GE (17CM57AW6A)	NA NA	NA NA	5020109	PC	8
RELAY: U/E ASSEMBLY, GE17LV66AV1 USED AS	GE (17LV66AV1)	NA NA	NA NA	5153043	PC	2
JNIT: U/E CONTACT, P1 & P2 SWITCH, WITH	GE (41D750493G11)	NA NA	NA NA	4243206	PC	4
		NA	NA NA	5142462	PC	4

7/26/2012

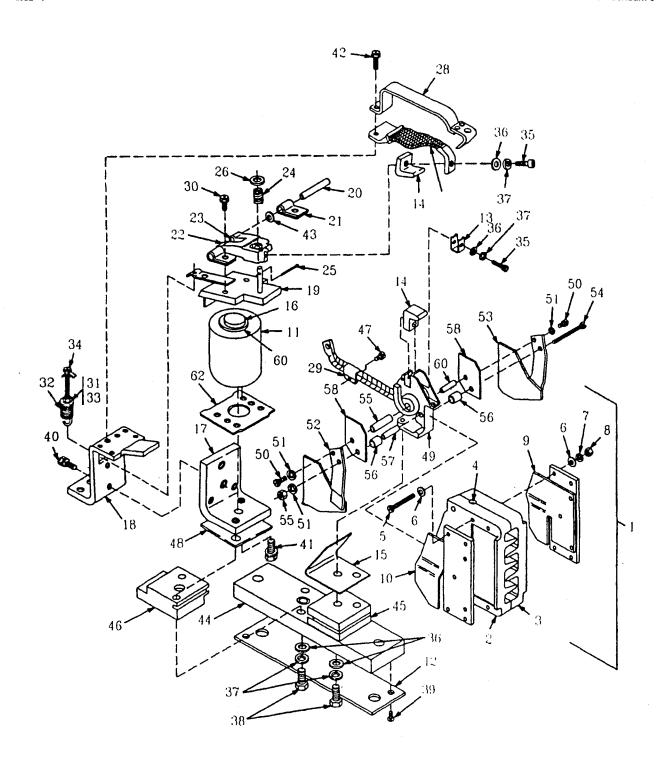


FIGURE INDEX	OEM PART NO.	OEM ID CODE	PART I	ENDOR D ODE	LOT NO.	No.	USAG	
A2.6	17CH53AF18	3831		٠	5153248	NOMENCLATURE CONTACTOR:	+	ASS
					3.33240	Assembly		2
1	41C655653G1	3831			5153038	.CHUTE:		1,
2	41066217195	3831				Arc		
						SIDE: Arc Chute		1
3	41066217196	3831			5142153	SIDE: Arc Chute		1
4	311V889P1	3831			5142097	PIN:		
5	N668P16036B13	3831				SCREW:		2
						Slotted HEX HD, NO. 10-32 X 2 1/4 IN. Lg		4
6	N402P9B13	3831		1		WASHER:		8
7	N405P39813	7074				NO. 10 (Narrow)		8
•	1403/37813	3831				LOCK WASHER:		4
8	N210P16813	3831				NUT:		4
9	482A583G5	3831				HEX, NO. 10-32	1	•
	482A583G6	3831				POLE PIECE:		1
	41A250388G2	3831				POLE PIECE:	- 1	1
	THE SUSBOGE	3831				.COIL: OPERATING		1
12	41A271219P2	3831				.SHIELD:].	,
						Insulation, 3 IN. Wide X 11.31 IN.		.
13	8814851P1	3831		51	42007	.HORN:		.
14	8867977P1	7074				Arcing		'
		3831		51	43002	.TIP: Contact	2	:
15	4710409P1	3831		503	30429	.INSULATION:	.	
16	4710372P1					2-1/4 IN. Lg	1	
	47 10372F1	3831		503	30407	.CORE: Magnet	1	
17	4768834P1	3831		503	30405	.FRAME:		
18	996014 9 P1	7074				Magnet	1	
i	5839157G5	3831		514	2052	.STOP:	1	İ
		3831				.ARMATURE: Assembly	1	
20 8	3814797P1	3831		514	2060	PIN:		
21 8	3814696P1	7071			ł	5/16 IN. DIA X 2 7/8 IN. Lg, SS	'	
-		3831		5142	2061	.CLAMP:	2	



SECTION FIGURE INDEX	PART NO.	OEM ID COOE	PART	VENDOR ID CODE	CTA LOT NO.	NOMENCLATURE	USAGE	PER ASSY
4A2.6			2.1					
22	3368640P7	3831			5142056	.ARM: Assembly		1
23	N2113P177A	3831				BUSHING: Plain, 0.313 IN. I.D., Bronze		2
24	8862956P1	3831			5142058	.SPRING:		1
25	N503P908B13	3831				COTTER PIN: 3/32 IN. DIA X 1/2 IN. Lg		1 -
26	8814853P1	3831			5142059	.SEAT: Spring		1
27	9960690G1	3831	:		5012005	.SHUNT: Flexible		1
28	488A47G1	3831				.HORN: With Spring		1
29	41A257680P1	3831	:		5153037	.CLAMP:		1
30	8823750P236	3831			1382020	SCREW: With Lock Washer, NO. 10-32 x 1/2 IN. Lg		2
31	N210P16B13	3831				.NUT: HEX, NO. 10-32		1
32	8823898G1	3831			5142054	.SPRING: With Plug		1
33	N403P25813	3831				.LOCK WASHER: 1/4 IN, STL		1
34	6706033G1	3831				.SCREW: Calibrating, NO. 10-32 X 2 7/16 IN. Lg		1
35	N170P23020B13	3831				.SCREW: HEX SCH, 5/16 IN18 X 1 1/4 IN. Lg		2
36	N402P12B13	3831				.WASHER: 5/16 IN., Narrow		6
37	N405P42B13	3831				.LOCK WASHER: 5/16 IN.		6
38	498a829P1	3831				.80LT: Slotted Hex HD, 5/16 IN18 X 2 1/4 IN. Lg		4
39	N125P1306813	3831				.SCREW:		2
40	8823750P263	3831			5153030	.SCREW: With Lock Washer, 1/4 IN20 x 3/4 IN. Lg		2
41	8823 <i>7</i> 50P285	3831				.SCREW: With Lock Washer, 3/8 IN16 X 1-1/4 IN. Lg		1



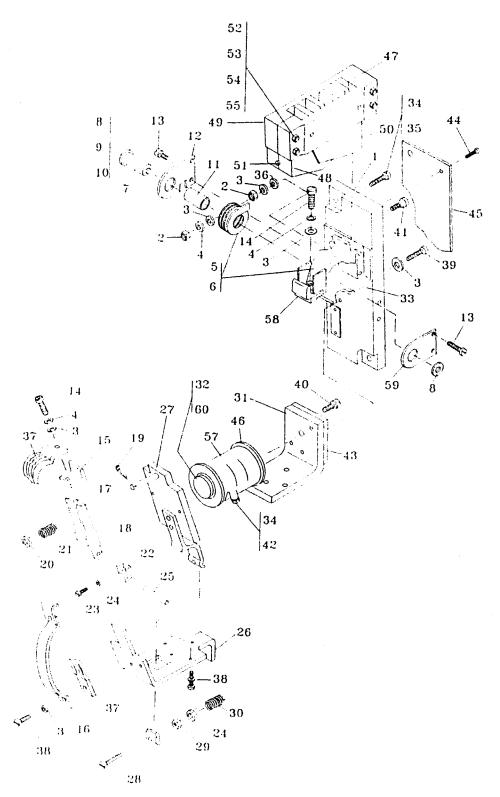






SECTION FIGURE INDEX	OEM PART NO.	OE: ID CO	PART	VENDO ID COOE	OR CTA LOT NO.	NOMENCLATURE	USAGE CODE	PER
442.6						NOMENCLATURE		ASSY
	42 8823 <i>7</i> 50P273	3831				.SCREW: With Lock Washer 5/16 IN18 X 5/8 IN. Lg		2
•	43 N401P12	3831				.WASHER: 5/16 IN., Br		2
4	4 410754144P3	3831			5153026	-BASE:		
4	5 418560687P1	3831			5153036	.SPACER: 2.25 IN. Lg, 0.860 IN. Thk		1
4	6 4185606 87 P2	3831			5153028	-SPACER: 4.38 IN. Lg X 0.860 IN. Thk		,
4	7 N125P1510B13	3831			1440703	.SCREW: Statted FILM, NO. 8-32 X 5/8 IN. Lg		1
4	B 41A272792P1	3831			5153029	.SHIM: 0.035 IN. Thk		1
	675024769	3831			5142064	.COIL: With Stationary Contact Support		,
50	N44P16008B13	3831				SCREW: Slotted FILH, NO. 10-32 X 1/2 IN.	:	2
51	N405P39813	3831				LOCK WASHER: NO. 10	3	
	6725027G1	3831			5142065	POLE PIECE:	,	
53	6725027G2	3831		1	5142066	POLE PIECE:		
54	N40P16048	3831				SCREW: Slotted FILH, NO. 10-32 X 3 IN. Lg, Br	1	
55	N210P16B13	3831				NUT: HEX, NO. 10-32	1	
56	4710385P1	3831			5030425	TUBE: Insulation, 0.546 IN. Lg	2	
	4710386P1	3831			5030424	TUBE: Insulation, 2.230 IN. Lg	1	
58	4710809P1	3831			5030423	SHIELD: 0.060 IN. Thk	2	
59	41A251641P23	3831				TUBE: Insulation, 2.227 IN. Lg	1	
60	4710381P1	3831		:	5030419	CORE: Blowout Coil	1	
	W1819-020	5145	41A250114P2	3831	5142617	.WASHER: Spring 1.40 IN. I.D., Steel, Zinc PLD	1	
62	41A323432P1	3831		5	142616	.PLATE:	1	





CONTACTOR ASSEMBLY 17CM57BR5 FIG: 4A2.3

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SECTION FIGURE INDEX	OEM PART NO.	OEM 1D CODE	VENDOR VEN PART ID NO. COD	LOT		USAGE	QTY
A2.3	17CM57BB5		, Loo	E NO.	NOMENCLATURE		ASS
	17007885	3831		5153245	CONTACTOR: Assembly		4
	1 9963423P3	3831	1	5142068	.BASE:		
;	2 N258P21B13	3831			.NUT:		2
3	N402P11B13	3831			HEX, 1/4 IN 20		•
					-WASHER: 1/4 IN., Narrow		7
4	N405P41B13	3831			.LOCK WASHER: 1/4 IN., Steel, Zinc PLD		3
5	418564511G1	3831			.BLOWOUT COIL:		1
6	4735488G3	3831			And Support		•
					.SUPPORT: Blowout Coil		1
7		3831			.CORE:	1	1
8	41A279283P1	3831			.HEAD: Core	2	<u> </u>
9	N51P12008813	3831			.SCREV:	2	,
			·		Slotted Flat HD, NO. 6-40 x 1/2 IN. Lg, Steel, Zinc PLD		
	41B562849P181	3831			.SEALER:	,	
11	41A251641P24	3831			INSULATION TUBE:	,	
12	4715165P1	3831			.FLANGE:		
13	8823750P236	3831			.SCREW:	4	
					With Lock Washer, NO. 10-32 X 1/2 IN. Lg	"	
14	N170P21012B13	3831			.SCREW:	2	
15	187V471P1	3831			HEX SCH, 1/4 IN20 X 3/4 IN. Lg		-
14	000777770				Contact, Movable	2	
16	996343761	3831			.GUARD: Shunt, With Arcing Horn	1	
17	8839974G1	3831			.ARM:	1	
18	418562849P384	3831			Contact, With Bushing		
					BUSHING: 0.190 IN. I.D.	1	
19	N503P606813	3831			COTTER PIN: 1/16 IN. DIA X 3/8 IN. Lg	,	
20	8817580P1	3831			SEAT:		
21	P963909P1	3831			Spring	1	
				-	SPRING: Compression	1	



CHAMBLE	

SECTION FIGURE INDEX	OEM PART NO.	OEM ID CODE	VENDOR PART NO.	VENDOR ID CODE	CTA LOT NO.	NOMENCLATURE	USAGE CODE	OTY PER ASS
4A2.3			 				1	
22	8817548P1	3831				.BLOCK: Clamping		2
23	N668P16014B13	3831				.SCREW: Slotted HEX HD, NO. 10-32 x 7/8 lN.		2
24	N405P39B13	3831				.LOCK WASHER: NO. 10		3
25	8817579P1	3831			5142080	.PIN: Hinge		1
26	8839997P1	3831			5142075	.FRAME:		1
27	8834202G1	3831			5142077	.ARMATURE: With Spring Post and Bracket		1
28	6700342G1	3831			5142078	.SCREW: Adjusting		1
29	N210P16B13	3831				.NUT: HEX, NO. 10-32		5
30	482A486G1	3831				.SPRING: Tension, With Plug		1
31	4768903ACP1	3831			5142070	.FRAME: Magnet		1
32	4709833AAP1	3831			5142072	-CORE: Magnet		1
33	4709831P1	3831				.SME ILD: Insulation		1
34	N402P9813	3831				.WASHER: NO. 10 (Narrow)		12
35	498A829P7	3831				.BOLT: HEX HD, 1/4 IN20 X 1 3/4 IN. Lg		1
36	187V146P1	3831				.SPACER: 9/32 IN. Thk		1
37	41A260370G2	3831				.SHUNT: Assembly		1
38	8823750P262	3831				.SCREW: With Lock Washer, 1/4 IN20 X 5/8 IN. Lg		3
39	8823 <i>7</i> 50P26 3	3831				.SCREW: With Lock Washer, 1/4 IN20 X 3/4 IN. Lg		2
40	8823750P275	3831				.SCREW: With Lock Washer, 5/16 IN18 X 1 IN. Lg		1

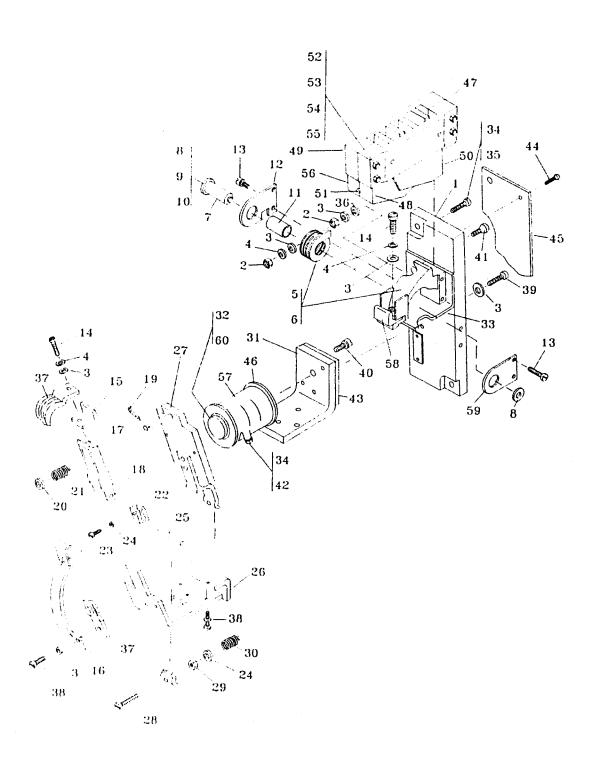




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FIGURE INDEX	PART NO.	10 10 COO	PART	VENDO ID CODE	DR CTA LOT NO.	NOMENCLATURE	USAGE	PER
4A2.3						NOTE TO BE	+	ASS
4	1 8823750P241	3831				.SCREW: With Lock Washer, NO. 10-32 X 1 IN. Lg		2
4	2 8823750P234	3831				.SCREW: With Washers, NO. 10-32 X 3/8 IN.		2
4:	3 6713726P1	3831			5142071	.SPACER: 0.030 IN. Thk		: 1
44	N125P1306B13	3831				.SCREW: Slotted Flat HD, NO. 6-20 x 3/8 IN. Lg		2
45	8817451P1	3831		ļ	5142069	.SHIELD: Insulation		1
46	418551988P1	3831				.WASHER: Spring		1
47	426C844G2	3831			5142015	-CHUTE:		1
	426C848P5	3831			5142094	SIDE:		,
	426C848P6	3831			5142093	SIDE:	,	1
50	6702734G2	3831				PIECE: Pole, Right Side	1	,
51	311V889P1	3831				PIN:	2	<u>,</u>
52	N405P39813	3831				LOCK WASHER: NO. 10	4	ļ
53	N210P16B13	3831				NUT: HEX, NO. 10-32	4	,
54	N402P9813	3831				WASHER: NO. 10 (Narrow)	8	
55	N668P16032B13	3831				SCREW: Slotted Hex HD, NO. 10-32 X 2 IN.	4	
56	67027 33 G2	3831				PIECE: Pole, Left Side (NOT SHOWN ON ILLUSTRATION)	1	
57	4739316G2	3831			5153044	.COIL: Operating	1	
58	41A278788P1	3831			5142090	.TIP: Contact, Stationary	1	
59	4715162P1	3831			5142090	-FLANGE:	1,	
60	3515-36-01	N/A	41A250114P1	3831		.WASHER: Spring, (Shakeproof Co., Illinois Tool)	1	





CONTACTOR ASSEMBLY 17CM57BC5 FIG: 4A2.5

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SECTION FIGURE INDEX	PART NO.	OEM ID	VENDOR PART	VENDOR ID	CTA LOT		USAGE	
4A2.5		CODE	NO.	CODE	NO.	NOMENCLATURE	CODE	PE
•46.5	17CM57BC5	3831				CONTACTOR:		AS:
1	9963423P3	3831			5142068	Assembly		,
. 2	N258P21B13	3831			3142000			1
·3	N402P11B13	3831				.NUT: HEX, 1/4 IN 20		2
		3631				.WASHER: 1/4 IN., Narrow		7
4	N405P41B13	3831				LOCK WASHER:		3
5	418564511G1	3831				1/4 IN., Steel, Zinc PLD .BLOWOUT CDIL:		_
6	473548863	3831				And Support		1
7	41A279282P1					.SUPPORT: Blowout Coil		1
8	41A279283P1	3831		ŀ		.CORE:	,	i
		3831				.HEAD: Core	2	!
9	N51P12008B13	3831				SCREW: Slotted Flat HD, NO. 6-40 X 1/2 IN.	2	
10	418562849P181	3831				Lg, Steel, Zinc PLD .SEALER:	,	
11	41A251641P24	3831				(USE AS REQUIRED) -INSULATION TUBE:	'	
12	4715165P1	3831				1 3/8 IN. Lg	1	
	8823750P236	3831				-FLANGE:	2	1
						.SCREW: With Lock Washer, NO. 10-32 x 1/2 IN. Lg	4	
14	N170P21012B13	3831				.SCREW: HEX SCH, 1/4 IN20 X 3/4 IN. Lg	2	
15	187V471P1	3831		50	12019	.TIP: Contact, Movable	1	
16	9963437G1	3831		514	2084	.GUARD:	١,	
17 8	839974G1	3831		514	20 7 9	Shunt, With Arcing Horn .ARM:		
18 4	185628499384	3831				Contact, With BushingBUSHING:	1	
19 N	503P606B13	3831				0.190 IN. I.DCOTTER PIN:	1	
20 8	B17580P1	3831		E4.	2007	1/16 IN. DIA X 3/8 IN. Lg	1	
21 00	963909P1			>147	2083	-SEAT: Spring	1	
- ' ''	-0370761	3831		5142	2014	.SPRING: Compression	1	



SECTION FIGURE	OEM PART	OEM ID	VENDOR PART	VENDOR	CTA LOT		USAGE	PER
INDEX	NO.	CODE	NO.	CODE	NO.	NOMENCLATURE	ļ	ASS
A2.5								
22	8817548P1	3831				.BLOCK: Clamping		2
23	N668P16014B13	3831				.SCREW: Slotted HEX HD, NO. 10-32 x 7/8 IN. Lg		2
24	N405P39B13	3831				.LOCK WASHER: NO. 10		3
25	8817579P1	3831				.PIN: Hinge		1
26	8839997P1	3831			5142075	.FRAME:		,
27	8834202G1	3831			5142077	.ARMATURE: With Spring Post and Bracket		1
28	6700342G1	3831			5142078	.SCREW: Adjusting		1
29	N210P16B13	3831				.NUT: HEX, NO. 10-32		1
30	482A486G1	3831			5142013	.SPRING: Tension, With Plug		1
31	4768903ACP1	3831			5142070	.FRAME: Magnet		1
32	4709833AAP1	3831			5142072	.CORE: Magnet		1
33	4709831P1	3831				.SHEILD: Insulation		1
34	N402P9B13	3831				.WASHER: NO. 10 (Narrow)		4
35	498A829P7	3831				.80LT: HEX HD, 1/4 IN20 X 1 3/4 IN. Lg		1
36	187V146P1	3831	3		5142092	.SPACER: 9/32 IN. Thk		1
37	41A260370G2	3831			5142402	.SHUNT: Assembly		1
38	8823 <i>7</i> 50P262	3831			1382009	.SCREW: With Lock Washer, 1/4 IN20 X 5/8 IN. Lg		3
39	8823 <i>7</i> 50P263	3831			5153030	.SCREW: With Lock Washer, 1/4 IN20 X 3/4 IN. Lg		2
40	B823750P275	3831			5142074	.SCREW: With Lock Washer, 5/16 IN18 X 1		1





PB-65002-012B



GE Renewal Parts

Use original equipment parts for reliability PARTS BULLETIN

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See On-Line Master for Current Revision

CONTACTOR, 17CM57AW6

05-JUN-2002

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PB-65002-012B

FIG.	REF.	-	071	
	NO.	PART NO.	QTY	DESCRIPTION
1	1	17CM57AW6	1	CONTACTOR (SEE PB-65002-012)
l	2	9963423P3	1	BASE (SEE FB-65002-012)
1	3	N258P21B13	2	NUT, HEX, 1/4 IN-20
3	4	N402P11B13	7	WASHER, I/4 IN (NARROW)
1	5	N405P41B13	3	LOCKWASHER, 1/4 IN
ı	6	41B564511G1	ı	BLOWOUT COIL AND SUPPORT
ı	7	4735488G3	. 1	SUPPORT, BLOWOUT COIL
ı	8	41A279282PI	t	CORE
1	9	41A279283P1	2	CORE HEAD
!	10	N51P12008B13	2	SCREW, SUFL HD, NO 6-40, 1/2 IN LONG, ZINC PL
ı	11	41B562849P181	AR	SEALER
i	12	41A251641P24	1	INSULATION TUBE, 1.370 IN LONG
1	13	4715165P1	1	FLANGE
1	14	4715162P1	1	FLANCE
l.	15	8823750P236	4	SCREW WITH LOCKWASHER, NO 10-32, 1/2 IN LONG
l	16	N170P21012B13	2	SCREW, HEX SOC HD, 1/4 IN-20, 3/4 IN LONG
	17	187V471P1	2	CONTACT TIP
	18	9963437G1	ł	SHUNT GUARD WITH ARCING HORN
	19	8839974G1	ì	ARM WITH BUSHING, CONTACT
	20	41B562849P384	,	BUSHING, 0.190 IN ID
	21	N503P606B13	1	COTTER PIN, 1/16 IN DIA, 3/8 IN LONG
	22	8817580P1	1	SPRING SEAT
	23	9963909P1	1	SPRING, COMPRESSION
	24	8817548PI	2	BLOCK, CLAMPING
	25	N668P16014B13	2	SCREW, SL HEX HD, NO 10-32, 7/8 IN LONG
	26	N405P39B13	2	LOCKWASHER, NO 10
	27	8817579P1	1	HINGE PIN, 3/16 IN OD, 2 IN LONG
	28	8839997PI	1	FRAME
	29	8834202G1	1	ARMATURE WITH SPRINGPOST AND BRACKET
	30	6700342G1	1	SCREW, ADJUSTING
	31	N210P16B13	1	NUT, HEX, NO. 10-32
	31A	N403P19B13	1	LOCKWASHER, EXTERNAL TOOTH, NO 10
	32	482A486G1	ı	TENSION SPRING WITH PLUG
	33	4768903ACP1	i	MAGNET FRAME
	34	4709833AAP1	1	CORE, MAGNET
	34A	41A250114P8	1	WASHER, SPRING, 1 IN
	35	4709831 P2	ı	INSULATION SHIELD
	36	N402P9B13	4	WASHER, NO 10 (NARROW)
	37	498A829P7	1	BOLT, HEX HD, 1/4 IN-20, I 3/4 IN LONG
	38	187V146P1	1	SPACER, 9/32 IN THICK
	39	41A260370ABG2	1	SHUNT ASSEMBLY
	40	8823750P262	3	SCREW W/LOCKWASHER, 1/4 IN-20, 5/8 IN LONG
	41	8823750P263	2	SCREW W/LOCKWASHER, 1/4 IN-20, 3/4 IN LONG
	42	8823750P275	1	SCREW W/LOCKWASHER, 5/16 IN-18, 1 IN LONG
	43	8823750P241	2	SCREW W/LOCKWASHER, NO 10-32, 1 IN LONG
	44	8823750P234	2	SCREW W/LOCKWASHER, NO 10-32, 3/8 IN LONG
	45	6713726P1	ı	SPACER, 0.030 IN THICK
	46	N125P1306B13	2	SCREW, SL FL HD, NO 6-20, 3/8 IN LONG
	47	8817451P2	1	INSULATION SHIELD





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PB-65002-012B

FIG.	REF.			
NO.	NO.	PART NO.	QTY	DESCRIPTION
1	48	41B551988P1	1	LOCKING PLATE
1	49	426C844G2	ì	ARCCHUTE
1	50	426C848P5	1	SIDE
1	51	426C848P6	i	SIDE
1	52	6702734G2	i	POLE PIECE
1	53	311V889P1	,	PIN
1	54	N405P39B13	4	LOCKWASHER, NO 10
1	55	N210P16B13	À	NUT, HEX, NO. 10-32
1	56	N402P9B13	8	WASHER, NO. 10-32
1	57	N668P16032B13	4	
1	58	6702733G2	ì	SCREW, SL HEX HD, NO 10-32, 2 IN LONG POLE PIECE
ı	59	4739318G1	i	COIL OPERATING ALLIVING

C12RI101317082

#	Subject	PROPOSED QUESTION	
**-	Subject	PROPOSER QUESTION:	CTA RESPONSE
	Overhaul Process	Can you briefly explain the production process utilized to overhaul the 2600 series cars at the Skokie facility? For example, how many cars are overhauled at one time and what sequentially is the job element flow (e.g., trucks, traction motors, car body, doors, HVAC etc.)?	8 cars per month, but working on 6 cars at any time on different systems.
	Delivery Requirements	Does the CTA prefer to have sets of materials delivered necessary to overhaul a complete car on a per car basis or would it be preferred to have materials delivered by functional work element (e.g., trucks, doors, HPCU rebuilds etc.) as detailed in the RFP?	As detailed in the RFP Project and Delivery Schedule. (page 7 of 13)
	Horizontal Suspension Kit	R-BOM-002 – Hardware appears to be calling out the Horizontal Suspension Kit (BOM references CTA Lot No. 4003000 but the mini BOM doesn't specifically call out this lot number on the document. Could the CTA clarify this and add it to that BOM?	Material needed for the horizontal suspension kit are listed under "Horizontal Motor Suspension" on BOM R-BOM-002.
4	Gear Unit Kit	R-BOM-002 – Hardware appears to be calling out Gear Unit Kit CTA Lot No. 4003043 but there is no exact BOM called by this name. There is a BOM called "R-BOM-002 Gear Suspension". Is CTA trying to say the Gear Unit Kit CTA Lot No. 4003043 is this Gear Suspension BOM?	Material needed for the gear unit kit are listed under "Gear Unit Kit" on BOM R-BOM-002.
5	Vertical Motor Suspension	(Proposer) assumes the R-BOM-002 Vertical Motor Suspension is really CTA Lot No. 4003050. Could this lot number be added to the Min-BOM to clarify this point?	Material needed for the motor suspension kit are listed under "Vertical Motor Suspension" on BOM R-BOM-002.
6	Hydraulic Adapter	Page 10 of 15 of the Truck Mechanical BOM R-BOM-002 at the bottom of the sheet the CTA is calling out a part called "Hydraulic Adapter with Quick Release" @ 1/truck and 4/kit. There is no CTA lot number or any other vendor information. Can the CTA provide this info?	This line should be removed from the bill of material. All pieces of this Hydraulic adapter with quick release are already on the BOM.
	Parts Catalog	In the GE Control Group Kit – R-BOM-060 we need a little more illustrated parts catalog info to ensure the right contactors are quoted for the following: 17CM53AF18 17CM57BB5 17CM57AW6A	
7		17CM57BC5	R-BOM-060- Illustrated Parts Catalog attached to addendum 3.
8	Packaging	Could CTA accept reusable packages? Can we forecast to draw the empty packages when we drop off the complete kits?	Reusable packaging will be considered for this RFP; details to be discussed during contract negotiations.
9	Previous Purchase- Carsets	(Proposer) previously provided 300 Carsets for all material under R-BOM-002 (Truck Kit Mechanical and Truck Kit Mechanical). Since this program was considered a success with minimal issues, would the CTA add a note in Addendum 1 indicating the (Proposer) is considered an approved source for all items under the electrical and mechanical kit listings as long as we supply the same parts?	Please refer to Addendum # 2 section 5. Reference: COMPANIES USED FOR PREVIOUS C-LITE PROJECTS.
10		CTA Specification No. 8157-12, 8158-12, 8156-12, 8154-12, 8155-12. 8179-12 "Two (2) complete kits for two (2) rail cars shall be furnished in one (1) box / container by the contractor." If we have understood well for these components we should have 100 kits; one per car. But in the Appendix A the quantity of the kits is 50. Could CTA clarify the point?	Each kit contains material for 2 cars. That
11	Discrepancies	Not all listed as 100% replacement and quantity per kit is listed as such (Lot # 5153700, 25% replacement, total required 1). What is the plan to handle quantity discrepancies at point of installation? (R-BOM-002: Mechanical & Electrical)	would be an overal all quantity of 50 kits. Supply only quantity requested.
12	First Time Product Sample	In 5/5.1 of (SPEC 6794-12), reference is made to "First time pre-production sample furnishing" and that a first time furnisher must provide samples before any mass	Pre-Production Samples covers this scenario for any kit/part.
13	Scope of Service- Number of Kits	Overhaul Material Requirements: CTA has listed the requirements for the overhaul of 100 2600 series railcars. In the "Qty Required" field, it has listed 50 kits for the Truck overhaul, R-BOM-002. Are the kits for a married pair of railcars or is CTA looking to overhaul 50 railcars? Please clarify.	The "Qty Required" filed of the proposal page represents enough material to overhal 100 railcars. In the case of Truck overhaul, R-BOM-002, each kit is enough material for two railcars.
	Cable Length	Certification: Is it required for all the items from R-BOM-010? Lot Num. 4002653 CABLE, S1, CARBODY TO BEAM, 95" Drawing R-3-1582 specifies cable length of 95". R-BOM-002 specifies 7.9' (94.8"). Which length should we use?	No, this kit is from GE (OEM). The measurements from the drawing should be used.
17	Cable Length II	Lot Num. 4242745 CABLE, ASSY., TRUCK FRAME TO BRUSH BOX Drawing R-3-1582 specifies cable length of 52". R-BOM-002 specifies 4' (48"). Which length should we use?	The measurements from the drawing should be used.

18	Cable Length III	Lot Num. 5142708 CABLE, TRUCK FRAME TO BOLSTER. 26" LONG Drawing R-3-1582 specifies cable length of 26". R-BOM-002 specifies 2.2' (26.4"). Which length should we use?	The measurements from the drawing should be used.
19	Cable Length IV	Lot Num. 5143029 CABLE, ASSEMBLY, BOLSTER TO CARBODY, 41" L Drawing R-3-1582 specifies cable length of 41". R-BOM-002 specifies 3.25' (39"). Which length should we use?	The measurements from the drawing should be used.
20	Cable Length V	Lot Num. 4002444 CABLE, ASSY., 40V #1 On drawing R-4-1590, Item 6 wire refers to Lot Num. 3102622. This wire is item 6 on drawing R-4-1556. There is one length of wire at 6'-9" and a second length at 8' not including additional length required to terminate in the connector. R-BOM-002 specifies a length of only 1'. What lengths of wire should we provide?	The measurements from the drawing should be used.
21	Cable Length VI	Lot Num. 4002445 CABLE, ASSY., 40V #2 On drawing R-4-1591, Item 6 wire refers to Lot Num. 3102622. This wire is item 6 on drawing R-4-1556. There is one length of wire at 6'-9" and a second length at 8' not including additional length required to terminate in the connector. R-BOM-002 specifies a length of only 1'. What lengths of wire should we provide?	The measurements from the drawing should be used.
22	Junction Box Info	Lot Num. 3072618 Cover Assy, ATC Junction Box On drawing R-3-1622, there is no vendor information for the gasket used on the junction box cover. Please provide complete specifications for the gasket material including type of neoprene (solid or sponge, closed cell, open cell, durometer etc.). Also, the adhesive used to glue the gasket to the cover is specified as MIRACLE – TYPE P. We cannot identify this adhesive. Please provide complete manufacturer's data sheet for the adhesive.	ITW Miracle Type P adhesives.



567 West Lake Street Chicago, Illinois 60661-1498 TEL 312 664-7200 www.transitchicago.com

Date:

January 10, 2013

ADDENDUM #2

Subject: Requisition No. C12RI101317082 – Request for Proposal (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series Railcars.

We are enclosing Addendum No. 2 for the subject requisition:

Below are notes that are meant to clarify sections of the RFP. Attached is a list of vendors who provided material for previous C-Lite overhauls. Also attached is an initial list of proposer questions with corresponding answers provided by the CTA. Finally, attached is a list of lot numbers that have neither a drawing or approved manufacturer, along with corresponding companies who have provided this material to the CTA in the past.

1. Note: INITIAL DELIVERY

Throughout the RFP where there is reference to an initial delivery of material for 24 cars; this number represents both the initial delivery of material for 22 cars and the material used to complete a prototype installation for a married pair of railcars.

2. Note: ADDITIONAL INFORMATION

In addition to the list of manufacturer abbreviations provided in Addendum #1, below is a list of additional manufacturer abbreviations:

ELMHRSTM- Elmhurst Mfg.

FLXIBLE- Flxible

GEDCON- Gedcon Inc.

NATLDISC- National Disc Spring

OEMSAFEW- OEM Safeway

PHOENIXN- Phoenix North America, Inc.

PLASTICD- Plastic Dip Moldings

SACHS- Sachs

SOHVRB- (Please disregard, manufacturer is not in CTA database)

WAGGONFA- Waggonfabrik Talbot (Germany)

WEATHRHE- Weatherhead Co.

3. Note: R-BOM-002 - HARDWARE

There will be no manufacturer part numbers or drawings provided for items listed in R-BOM-002- Hardware. The item description should be sufficient. If there are any lot numbers outside of this section for which we have not provided either a manufacturer part number, or drawing, please notify the Procurement Administrator.

4. Reference: PROPOSER QUESTIONS

Attached is a partial list of proposers' questions and CTA's answers. More proposer questions will be answered in subsequent addenda.

5. Reference: COMPANIES USED FOR PREVIOUS C-LITE PROJECTS

Attached you will find a list of companies that have sold the CTA parts for previous C-Lite projects. In past projects, CTA has purchased all parts through existing blanket IFBs and one-time IFBs. This will be the first time that the CTA uses an RFP for the entire project.

6. Reference: LOT NUMBERS WITH ONLY DRAWINGS

Attached is a list of lot numbers that had only drawings listed, with no approved manufacturers. We have included sources that CTA has purchased this material from in the past.

Please acknowledge receipt of Addendum No. 2 on the Proposal page titled Bidders Signature Page. Failure to acknowledge receipt of any addenda may cause your bid to be non-responsive.

The proposal due date remains Thursday, February 7, 2013, 3:30 p.m., local Chicago time.

If you have any questions, please contact Mr. Timothy Polacek of my office at (312) 681-2481.

Sincerely,

David Johnson

Vice-President, Purchasing

Enclosures (7)

cc: D. Johnson

K. Brosnan

Contract File (C12RI101317082)

C12RI101317082- PROPOSER QUESTIONS

#	Subject	PROPOSER QUESTIONS	CTA RESPONSE
		"C12RI101317082 Request for Proposals (RFP) for Sourcing	
Ì	ĺ	and Delivery of Parts required to Perform In-House Overhauls	
		on (100) of the 2600 Series Railcars" does not list (an	
		alternate) approved source for these items in R-BOM-002 (lot	Alternate manufacturer lot numbers:
	Approved	numbers 4003003, 4003046, 4003052, and 4003053). This	4003003- Vulcanite- VP 2963
İ	Source		4003046- Vulcanite- VP 2855
		ommision will not direct potential bidders to potentially	4003052- Vulcanite- VP 2853
		source this material from (alternates), depriving CTA the	
		oportunity for savings similair to that which were realized with	4003053- Vulcanite- VP 2857
1		the award of B12OP03189.	
		The drawings attached to the RFP cover just a part of the	
		requested components.	
		In order to identify the correct package for each kit we need	
	Drawings List	to evaluate the dimensions and the weights for each item.	
		Could CTA months to the first to the state of the state o	hu shi ka sasada sa
1		Could CTA provide drawings (with weight indication) and	We are unable to provide weights on each item in the
		packaging information for all listed parts?	kit. The succesful supplier will need to determine
2			combined weights.
	2600 Series	Have there been any configuration changes to the 2600 series	
	Updates	cars that we should be aware of, since the last overhaul in	There have not been any configuration changes that
3		1998?	would impact this project.
		Our understanding to evaluate the complete number of	
		components is based on the following approach:	
		icomponents is based on the following approach.	
		For the subsystem in kits: Number of component indicated in	
	Ougatitu Dor	the BOM x (times) number of kids.	
	Quantity Per	the bolw x (times) humber of klus.	
	Component	Components not arganized in kits just the number indicate in	
		Components not organized in kit: just the number indicate in	
		the RFP (example: Sensor=1,400 components)	
		 Is our understanding correct?	
4			Correct
		The project schedule is organized in (number) of cars per	
		month.	
	Quantity Par	For the components not arranged in kit is it correct to consider	
	Quantity Per	the quantity per car as the total component quantity divided	
	Car	100 cars?	
_		Example: Sensor = 1,400	
5		It means 140 per car.	Correct
		The Mixed Item Material List seems to give full quantity	
		amounts to overhaul 100 cars. This is unlike how	
	Mixed Items	aforementioned kits are put together, either to overhaul one	
ļ	List	(1) or two (2) rail cars. Can we get a specification on how each	
		of these kits will be packaged, should they be separated as	Each kit should be packaged for the completion of two
6		single car kits, or dual car kits? (Appendix D)	cars.

C12RI101317082- PROPOSER QUESTIONS

Addendum 2

#	Subject	PROPOSER QUESTION:	CTA RESPONSE
		In this section there are assemblies with its subcomponents	
		and quantities. Is the expectation that we provide the	
	,	subcomponents or the full assemblies?	
	Assemblies	Ex: Are we to provide assembly "CABLE, GROUND BRUSH TO	
		MOTOR - 3102220" or just its subcomponents "CABLE 2/0 –	
1		3104468" and "TERMINAL – 1608099" for CTA to build.	The expectation is that the successful bid will provide
7		(Appendix D R-BOM-002: Electrical Assemblies)	full assemblies.

Companies Used for Previous C-Lite Projects

Company	Products
ACME GEAR COMPANY, INC.	Gear Shafts
ANSALDO STS USA, INC.	UNION SWITCH AND SIGNAL, Inc. Parts
BBA PROJECT, INC.	Fasteners/ Screws
BEARINGS & INDUSTRIAL	
SUPPLY CO., INC.	Ball and Roller Bearings
CERTIFIED PRODUCTS, INC.	Washers
CHICAGO JACK SERVICE, INC.	Lubrication Fittings
DIESEL ELECTRICAL	
EQUIPMENT, INC	Contact Tips
ELLCON-NATIONAL, INC.	Doors, Door Tracks
GMI, LLC	Truck Kits (complete)
INNOVATIVE COMPONENT	
SALES, INC.	Bolts, Rods, Fasteners, and Gaskets
J.P. SIMONS & COMPANY	Solderless Terminals and Connectors
KC ELECTRONICS	
DISTRIBUTORS, INC	Terminals, Connectors, Insulators
K-IV ENTERPRISES, LLC	Wheels
L.A. FASTENERS, INC.	Fasteners, Bolts, Screws, Washers
	Bushings, Covers for Hydraulic Pressure
METROPARTS	Control, Disc Brake Rotors, Bushings
MOORE-ADDISON CO.	Cams
NALUE TI SOLIDOS SI SOTDIONI O	
MULTI-SOURCE ELECTRICAL &	
INDUSTRIAL CORPORATION	Tube/ Screw
MUNCIE RECLAMATION &	
SUPPLY CO.	Rotron Motors, Marine Pumps
PCS INDUSTRIES, INC.	Extractor Cleaning Machines
PENN MACHINE COMPANY,	Flavible De de
DDCNAU INA TRANSIT SERVICES	Flexible Pads
PREMIUM TRANSIT SERVICES,	Name Company in S. i
INC.	Vapor Corporation Parts
PROGRESSIVE INDUSTRIES,	Dana Tarah Array I.P.
INC.	Door Track Assemblies
QUALITY TOOL, INC	Armature Shafts, Bearing Retainer Collars
RBC, INC.	Fasteners, Screws
RI-DEL MANUFACTURING,	
INC.	Armature Punching Sets, Supports
ROTAN, INC	Breathers, Rotan, Inc. Parts

Companies Used for Previous C-Lite Projects

Company	Products
SAINT-GOBAIN	
PERFORMANCE PLASTICS	
CORP.	Teglon Creepage Bands
SKF USA, INC.	Primary Springs
SWIGER COIL SYSTEMS, INC.	Armature Rewind Kits
TEC TRAN, A DIVISION OF	
WABTEC	HPCU, Disc Brake Caliper Parts
TRANSIT ASSOCIATES	
SERVICES, LLC	Door Panels, Sensitive Edges
TUREK & SONS, LLC	Cap Screws
VAPOR STONE RAIL SYSTEMS	
(VSRS)	Door Systems and Door Operator Kits
WABTEC GLOBAL SERVICES	G.E. Parts, Gear Cases

Lot numbers with only drawings

BOX, ASSEMBLY, ATC JUNCTION, REF. MK MANUAL, 3H-1, PAGE 3- BOX, ASSEMBLY, ATC JUNCTION, REF. MK MANUAL, 3H-1, PAGE 3- 132 R-3-1621 SAN MATEO, INC WIRE: ELECTRIC, 600V, ONE CONDUCTOR, WHITE EXAME INSILATED, #12, STRANDED COPPER WIRE. PLATE: SUPPORT, FOR HYDRAULC LINE INSTALATION USED ON 2400, 2600 AND 3200 TRICKS BRACKET, #1 "L" SHAPED, W/ T/16" DIA. HOLE, FOR CLAMSHELL CABLE SUPPORT CABLE SUPPORT BRACKET: 40V TRUCK HARNESS CLEAT BLOCK STUD, THREADED, FOR SENSOR CONNECTOR BRACKET: SPEED SENSOR CONNECTOR					INC.	WIC DOTANTO	N-7-1734	OUCT		4013505
MICHAL 2941_PAGE 3 R-3-1621 SAN MATEO, INC. GUALITY TOOL, INC. MANUATIVE EVANCE MATEO, INC. GUALITY TOOL, INC. MANUATIVE		<u>.</u>			INNOVATIVE COMPONENT SALES,			}	FROM RED SILICONE COMPOUND, FOR "FF2", "FF3", "A2", "A3" CABLES AT CLAM SHELL.	
MANAL, 394_1, PAGE 3 R-3-1621 SAN MATEO, INC. GUALITY TOOL, INC. MANUFACTURING,									BLOCK CLEAT TRUCK MADE	
MUAL, 394-1, PAGE 3 R-3-1623 SAN MATED, INC QUALITY TOOL, INC Supplier Suppl					INC.	METROPARTS	R-2-1292	1308	CABLES	
SPEC Number Drawing Number Supplier					COMPONENT SALES,				BLOCK, CLEAT, GROUND BRUSH	
SPEC_Number Drawing Number Supplier					INC.	METROPARTS	R-2-1291	1308	CABLE.	
SPEC, Number Supplier Suppl					COMPONENT SALES,				FUR AAI , AAS & SHUE HE	
SPEC_Number Supplier Suppli		***			COMPONENT SALES				FROM RED SILICONE COMPOUND,	
SPEC Number Drawing Number Supplier									BLOCK, CLEAT, TRUCK, MADE	
SPEC Number Drawing Number Supplier					co.	COMPANY	R-4-1099	6794-12	Spring: Carbody, Outer	
SPEC Number Frawing Number Supplier	س ىرىپ	_	_		SERVICES & SUPPLY	BARBER SPRING				
SPEC Number Franking Number Supplier					QUALITY RAILWAY					
SPEC Number Drawing Number Supplier					CO.	COMPANY	R-4-1100	6794-12	Spring: Carbody, Inner	
SPEC Number Drawing Number Supplier				•	SERVICES & SUPPLY	BARBER SPRING				
REV. ATCLUNCTION, NUAL, 3N.1, PAGE 3- NUAL, 3N.1, PAGE 3- NUAL, 3N.1, PAGE 3- R.3.1521 R.3.1521 SAN MATEO, INC QUALITY TOOL, INC QUALITY T					QUALITY RAILWAY					
BYPEC Number Supplier Supplie					INC.	METROPARTS	R-2-1288	1308	CABELS.	
SPEC Number Drawing Number Supplier					COMPONENT SALES,				FOR SHOE TIE & TRACK TRIP	
SPEC Number Drawing Number Supplier Su					INNOVATIVE				FROM RED SILICONE COMPOUND,	
SPEC Number Drawing Number Supplier Sup					INC.	EQUIPMENT	K1-1203		ROCK SHIELD.	4002672
SPEC Number Drawing Number Supplier					COMPONENT SALES,	HALLINDUSTRIES			MOUNTING CLEAT BLOCK AND	
SPEC Number Drawing Number Supplier Su					INNOVATIVE				STUD, THREADED, FOR	
SPEC Number Drawing Number Supplier						prior to RFP.	MK B00-411, REV.A.		CONNECTOR	<u> </u>
SPEC Number Drawing Number Supplier Su						purchase this part			BRACKET: SPEED SENSOR	
SPEC Number Drawing Number Supplier Sup						CTA has never				
SPEC Number Drawing Number Supplier Sup						prior to RFP.	SK-1-052107CA		BRACKET: 40V TRUCK HARNESS	
SPEC Number Drawing Number Supplier Su				•		purchase this part				
SPEC Number Drawing Number Supplier Su						CTA has never				┙
SPEC Number Drawing Number Supplier Su	-			MANUFACTURING,	HALL INDUSTRIES, INC.	& MANUFACTURING	R-1-1663		CLEAT BLOCK	
SPEC Number Drawing Number Supplier Su				RI-DEL		D.E. SPECIALTY TOOL			ANGLE, SECURING, MOTOR LEAD	
SPEC Number Drawing Number Supplier Su		<u>.</u>	HALL INDUSTRIES, IN	SYMBOL TOOL, INC.	INC.	SUPPLY CO.	R-2-1259		CABLE SUPPORT	
SPEC Number Drawing Number Supplier Sup	_				COMPONENT SALES,	MUNCIE RECLAMATION &			BRACKET, #1 "L" SHAPED, W/	
SPEC Number Drawing Number Supplier Su						prior to RFP.	SKR-1-080805CA		2400, 2600 AND 3200 TRUCKS	
SPEC Number Drawing Number Supplier Sup						purchase this part			LINE INSTALLATION USED ON	
SPEC Number Drawing Number Supplier Su						CTA has never			PLATE: SUPPORT, FOR HYDRAULIC	
ISPEC Number Drawing Number Supplier S					COMPANY	ELECTRO WIRE, INC.	R-4-1556		COPPER WIRE.	<u> </u>
SPEC Number Drawing Number Supplier Su	··,-	•			J.P. SIMONS &				INSULATED, #12, STRANDED	
ISPEC Number Drawing Number Supplier Su									CONDUCTOR, WHITE EXANE	
ISPEC Number Drawing Number Supplier S									WIRE: ELECTRIC, 600V, ONE	
SPEC Number Drawing Number Supplier Sup					QUALITY TOOL, INC	SAN MATEO, INC	R-3-1621		132	
SPEC Number Drawing Number Supplier Supplier Supplier Supplier Supplier		•							BOX, ASSEMBLY, ATC JUNCTION,	
	Supplier	Supplier	Supplier	Supplier		Supplier		SPEC Number	Description	Lot Number

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4183062	4181233	4013523	4013522	4013521	4013520	4013519	4013518	4013517	4013516	4013515	Lot Number
HOUSING: SPRING	NUT: TRACK BRAKE	BLOCK: CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR "AA" AND "F" CABLES.	BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR "AA" AND "F" CABLES.	BLOCK: CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR SHOE TIE CABLES.	BLOCK: CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR SHOE TIE AND TRACK TRIP CABLES.	BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR TRACTION MOTOR CABLES AT MOUNTING PLATE.	BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR TRACTION MOTOR CABLES AT MOUNTING PLATE.	BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR "FF2", "FF3, "A2", "A3", TRACTION MOTOR CABLES.	BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR SHOE TIE CABLES.	BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR SHOE TIE CABLES.	Description
			1308	1308	1308	1308	1308	1308	1308	1308	SPEC Number
R-3-1167 (CTA)	R-1-1184 (CTA)	R-2-1303	R-2-1302	R-2-1301	R-2-1300	R-2-1299	R-2-1298	R-2-1297	R-2-1296	R-2-1295	Drawing Number
QUALITY TOOL, INC	QUALITY TOOL, INC	METROPARTS	METROPARTS	METROPARTS	METROPARTS	METROPARTS	METROPARTS	METROPARTS	METROPARTS	METROPARTS	Supplier
METROPARTS	MANUFACTURING,	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	INNOVATIVE COMPONENT SALES, INC.	Supplier
SYMBOL TOOL, INC.	BBA PROJECT, INC.						Z&L MACHINING, INC.				Supplier
D.E. SPECIALTY TOOL & MANUFACTURING CO., INC.	INNOVATIVE COMPONENT SALES, INC.										Supplier
KNORR BRAKE CORP.	HALL INDUSTRIES, INC.										Supplier
TEC TRAN, A DIVISION OF WABTEC	IL MACHINE CO., INC.										Supplier

Lot numbers with only drawings

For Manifest Describition		SPEC NUMBER	SEC MILITARI DI AMILIA MILITARI SUPPLIEI	Supplier	Supplier	Supplier	Julyphie	Supplied	Supplies
	PLATE: CABLE RETAINING, FOR								
	TRACTION MOTOR COUPLER PLUG								
	MP10, SUPERTRUCK, SLOTTED,					RI-DEL			
	UNIVERSAL, FOR USE IN ALL CAR	,				MANUFACTURING,			
5153700 SERIES.	SERIES.		R-2-1682	Z&L MACHINING, INC. NAK-MAN, CORP		INC.			

CHICAGO TRANSIT AUTHORITY Advertisement for Professional Services

NOTICE OF TIME EXTENSION

Notice is hereby given that the proposal date heretofore advertised as Friday, January 18, 2013 has been extended to Thursday, February 7, 2013 no later than 3:30 P.M. in the Bid Office, 2nd Floor, 567 W. Lake, Chicago, IL 60661-1498 for the following items:

Req. C12RI101317082 Request for Proposals (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series Railcars.

Written questions will hereby be extended from Monday, January 7, 2013, to Monday, January 14, 2013 till 9:00 a.m., local Chicago Time, via email to tpolacek@transitchicago.com.

Any contract resulting from this bid is subject to a financial assistance between the Chicago Transit Authority, the United States Department of Transportation and the Regional Transportation Authority.

The contractor will be required to furnish certified copies of any and all Insurance Policies required in relation to this contract prior to CTA's execution.

Contractor will be required to comply with all applicable Equal Employment Opportunity laws and regulations and affirmative action requirements of the Federal Transit Administration and Illinois Human Rights Commission.

All bidders will be required to certify that they are not on the Comptroller General's list of ineligible contractors.

Chicago Transit Authority hereby notifies all bidders that it will affirmatively ensure that in regard to any contract entered into pursuant to this advertisement, Disadvantaged Business Enterprise will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color or national origin in consideration for an award.

PLEASE NOTE: Where bids are sent by mail, delivery service or delivered in-person to the CTA Bid Office, the bidders shall be responsible for their delivery only to the Bid Office before the advertised date and hour for the opening of the bids. The Bid Office hours are Monday through Friday from 8:00 a.m. to 4:30 p.m. Chicago time, except holidays.

The right is reserved to accept any bid or any part or parts thereof or to reject any and all bids.

All inquiries should be directed to and copies of bid documents obtained from the Bid Office – $2^{\rm nd}$ Floor, 567 W. Lake Street, Chicago, Illinois 60661-1498.

CHICAGO TRANSIT AUTHORITY

By: David Johnson
Vice President
Purchasing & Warehousing

January 4, 2013



567 West Lake Street Chicago, Illinois 60661-1498 TEL 312 664-7200 www.transitchicago.com

Date:

January 2, 2012

TIME EXTENSION

Subject:

Requisition No. <u>C12RI101317082</u> – Request for Proposal (RFP) for Sourcing and

Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series

Railcars.

The final day for vendor questions will hereby be extended from Monday, January 7, 2013, to Monday January 14, 2013 at 9:00 a.m., local Chicago time. All prospective bidders are encouraged to submit their questions as they arise.

The bid opening date for C12OP101249251 will hereby be extended from Friday, January 18, 2013, to Thursday February 7, 2013 at 3:30 p.m., local Chicago time.

Addendum with responses to vendor questions to follow.

If you have any questions, please contact Mr. Timothy Polacek of my office at (312) 681-2481.

Sincerely,

David Johnson

Vice President, Purchasing & Warehousing

CC:

D. Johnson

K. Brosnan

Contract File (C12RI101317082)



567 West Lake Street Chicago, Illinois 60661-1498 TEL 312 664-7200 www.transitchicago.com

Date:

December 21, 2012

ADDENDUM # 1

Subject: Requisition No. C12RI101317082 – Request for Proposal (RFP) for Sourcing and Delivery of Parts Required to Perform In-House Overhauls on (100) of the 2600 Series Railcars.

We are enclosing Addendum No. 1 for the subject requisition:

The existing Bills of Material are hereby revised according to the changes specified below. The drawings specified in this Addendum are attached and should be included in your RFP. Attached is a list of manufacturer names to correspond with the manufacturer abbreviations found on the Bills of Material in the RFP.

1. Note: *** SECTION I. BACKGROUND & INTRODUCTION

CTA has decided to extend the final date for vendor questions. The final day for vendor questions will be **JANUARY 7, 2013**. We encourage all proposers to send questions as they arise. This will ensure timely responses via addenda to be issued by CTA.

2. Note: BOM-002- ELECTRICAL page 12

Lot Number 4013515 will not be needed for this kit and should be removed from R-BOM-002-ELECTRICAL.

3. Note: BOM-002- ELECTRICAL page 12

Lot Number 4013521 will not be needed for this kit and should be removed from R-BOM-002-ELECTRICAL.

4. Note: BOM-002- ELECTRICAL page 14

Lot Number 4243232 (Assembly) will not be needed for this kit and should be removed from R-BOM-002- ELECTRICAL.

5. Note: BOM-002- ELECTRICAL page 13

The quantity per kit of Lot Number 4243298 should be increased to 6.

6. Note: R-BOM-002 - HARDWARE

The minimum grade requirement for all hardware listed in R-BOM-002-HARDWARE will be grade 5.

7. Reference: DRAWINGS

These previously excluded drawings have been attached to this addendum:

R-1-1181

R-2-1271

R-2-1276

R-2-1629

R-2-1679

R-4-1076

8. Note: ADDITIONAL INFORMATION

Attached is a list of manufacturer abbreviations along with the full manufacturer name associated with each abbreviation.

Page 1 of 1

Please acknowledge receipt of Addenda No. 1 on the Proposal page titled Bidders Signature Page. Failure to acknowledge receipt of any addenda may cause your bid to be non-responsive.

The proposal due date remains Friday, January 18, 2013, 3:30 p.m., local Chicago time. The due date may be extended via subsequent addenda, if warranted.

If you have any questions, please contact Mr. Timothy Polacek of my office at (312) 681-2481.

Sincerely,

David Johnson

Vice-President, Purchasing

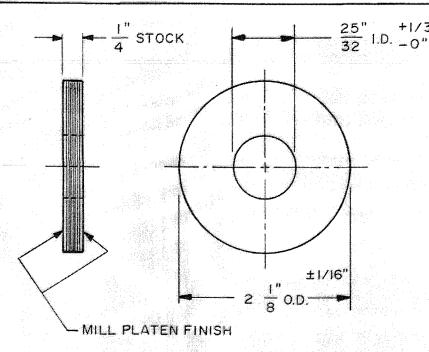
Enclosures (10)

CC:

D. Johnson

K. Brosnan

Contract File (C12RI101317082)



WASHER: INSULATING, FOR MOUNT'G. GRAVITY TYPE CURRENT COLLECTOR BEAM ASSY. TO TRUCK FOUR (4) REQ'D. PER ASSY. C.T.A. LOT NO. 4003301

MATERIAL: 1/4" THICK HIGH PRESSURE LAMINATED COTTON FABRIC REINFORCED PHENOLIC RESIN SHEET, CONFORMING TO NEMA GRADE "CE".

ADDENDUM # 1

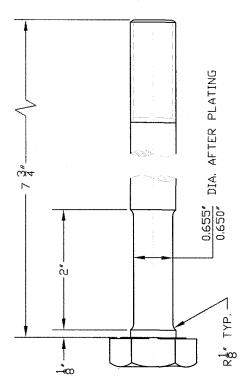
NOTE:

DIMENSIONING & TOLERANCING

- I. BREAK ALL SHARP EDGES.
- 2. APPLY THREE (3) COATS OF AN EPOXY RESIN/HARDENER MIXTURE TO THE PERIPHERY OF THE WASHER; MIXTURE TO CONSIST OF GLYPTAL NO. 74004 EPOXY RESIN AND GLYPTAL NO. 74010A HARDENER, MIXEDIN PROPORTIONS RECOMMENDED BY MANUFACTURER: SPECIALTY COATINGS; CHELSEA, MA..

PER ANSI (USASI) Y14.5 UNLESS OTHERWISE SPECIFIED RAIL OPERATIONS SURFACE FINISH ENGINEERING & TECHNICAL SERVICES DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± 🗡 WASHER: INSULATING, FOR MOUNTING FRACTIONS: ± ~ GRAVITY TYPE CURRENT COLLECTOR DECIMALS XX ± % DECIMALS .XXX ± % BEAM ASSEMBLY TO TRUCK RIVET & BOLT EDGE MARGIN ± .05 BEND RADII .01 ON .03 & .06 Scale_FULL Date 3-30-94 Drawn M.D ± .03 ON .09 & GREATER R-1-1181 SHEET METAL CORNER RADII .19 John .00 Next . R - 5 - 1006





BOLT: MODIFIED, 3/4"—10 UNC × 7 3/4" LONG HEX HEAD, FOR MOUNTING GRAVITY TYPE CURRENT COLLECTOR BEAM ASSEMBLY TO TRUCK FOUR (4) REQUIRED PER ASSEMBLY USE WITH CTA ITEM NO. 4003306 MATERIAL: UNPLATED 3/4"-10 UNC 2A \times 8" LONG HEX HEAD CAP SCREW (FINISHED HEX HEAD BOLT) GRADE 5 PER LATEST SAE J429 STANDARD.

NOTES

- 1. REMOVE ALL BURRS & SHARP EDGES.
- 2. APPLY PROTECTIVE ZINC COATING TO MODIFIED BOLT BY MECHANICAL DEPOSITION METHOD PER ASTM B695, CLASS 12, TYPE II LATEST STANDARD.
 - 3. BOLT TOLERANCES & GEOMETRY TO COMPLY WITH ANSI/ASME B18.2.1 LATEST STANDARD.
- 4. FINISHED PART SHOWN ON CTA DRAWING R-1-1182

PER ANSI (USAS) Y14.5

UNIESS OTHERWISE SPECIFIED
SURFACE FINISH
DIMENSIONS ARE IN INCHES
TOLERANCES: ANGLES ±
FRACTIONS: ± 1/32*
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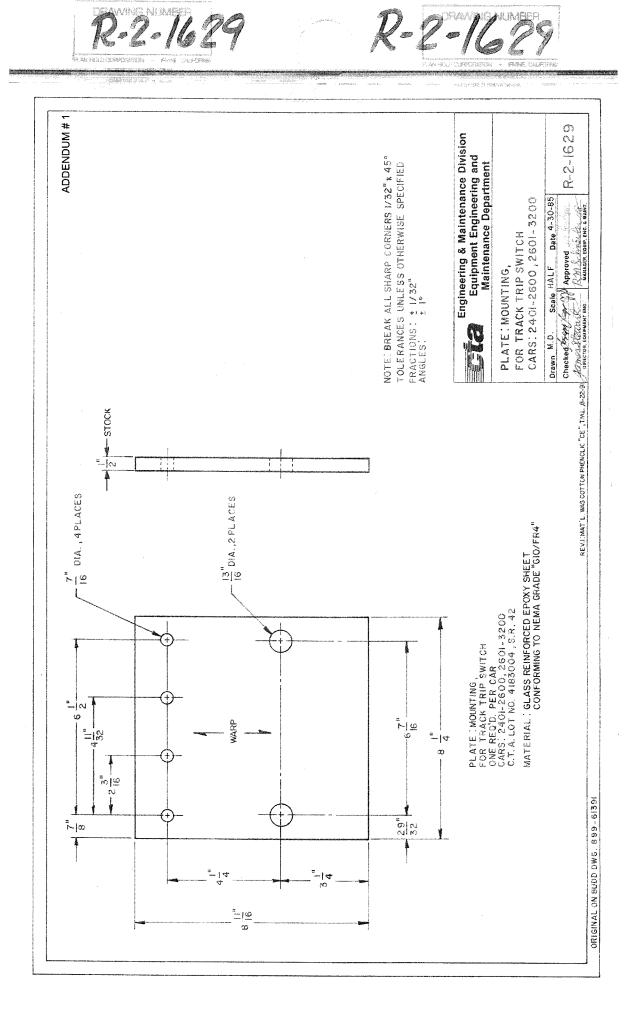
RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

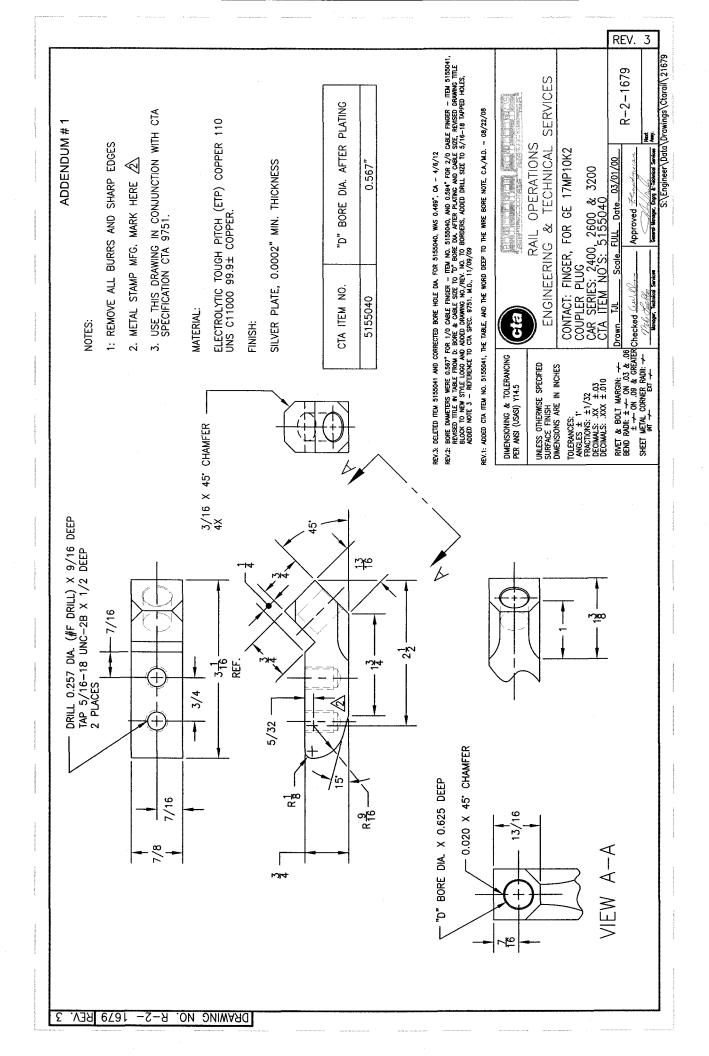
BOLT: MODIFIED, 3/4"-10 UNC × 7 3/4" LONG HEX HEAD, FOR MOUNTING GRAVITY TYPE CURRENT COLLECTOR BEAM ASSEMBLY TO TRUCK

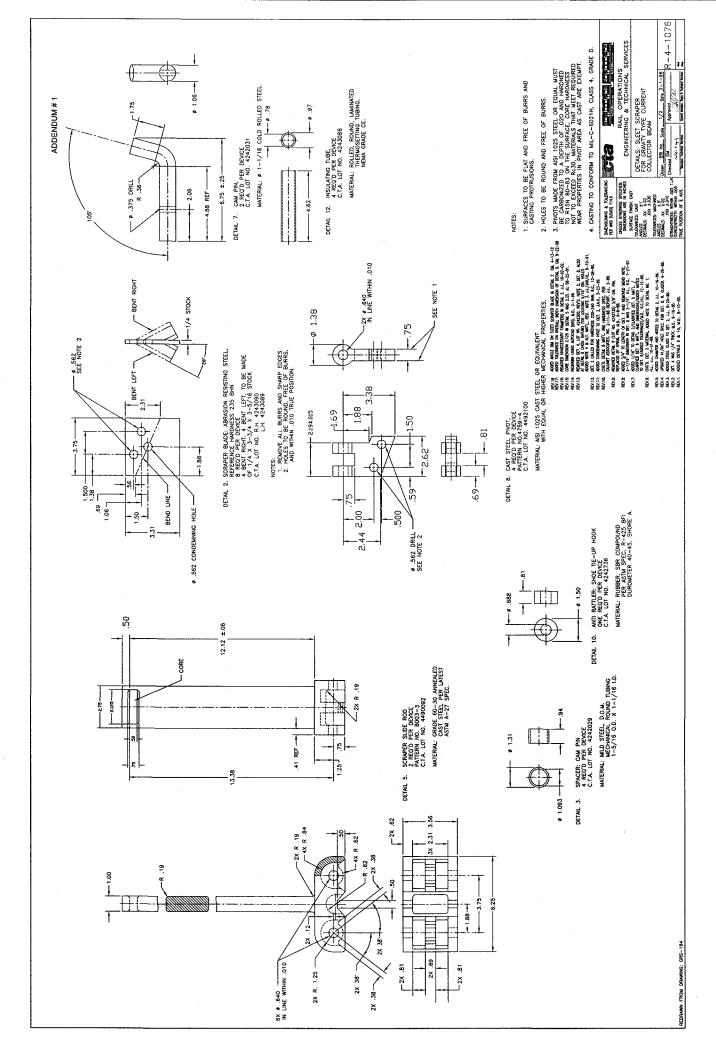
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Supplier Abbreviation

Supplier Name

Oupplier /\boreviation	Supplier Name			
*BBA PROJECT, INC.	BBA PROJECT, INC.			
ABBOTTIN	ABBOTT INDUSTRIAL SUPPLY			
ABBOTTRU	ABBOTT RUBBER CO.			
ABCONECT	AB CONNECTORS LIMITED			
ABILITYE	ABILITY ENGINEERING			
ABILITYM	ABILITY METAL			
ADMSWSTL	ADAMS & WESTLAKE, LTD.			
ADVANCTR	ADVANCE TRANSIT SERVICE INC.			
AEROQUIP	AEOQUIP CORP.			
AEROSTOP	AERO STOP NUT CORP.			
ALBATROS	ALBATROS NORTH AMERICA			
ALCOCNTR	ALCO CONTROLS CORP.			
ALCOVALV	ALCO VALVE			
ALEMITE	ALEMITE CO.			
ALERTMFG	ALERT MFG AND SUPPLY			
ALLIANCEH	ALLIANCE HOSE			
ALLORCOR	ALLOR CORP.			
AMCABLE	AMERCABLE			
AMERCABL	AMERCABLE			
AMETEK	AMETEK COMPANY			
AMP	AMP, INC.			
AMPINDST	AMP INDUSTRIES			
AMSPECL	AMP SPECIALTY PRODUCTS			
AMUNITED	AMERICAN UNITED TOOL			
APACHEHO	APACHE HOSE & RUBBER INC.			
APPLTNEL	APPLETON ELECTRIC CO.			
ATLATNTAI	ATLANTA INDIA RUBBER CO.			
AUTOCLUT	AUTO CLUTCH & PARTS SERVICE INC.			
BALDOR	BALDOR MOTORS			
BAUERSPR	BAUER SPRINGS			
BBA PROJECT, INC.	BBA PROJECT, INC.			
BBAPRO	BBA PROJECT, INC.			
BEARINGH	BEARING HEADQUARTERS			
BEI Ind.	B.E.I INDUSTRIAL, ENCPDER DIV.			
BELDENMF	BELDEN MFG			
BERRYBER	BERRY BEARING CO.			
Bey Electronics	Bey Electronics			
BOEINGVR	BOEING VERTOL			
BOMBARDI BOMBARDIER CORP.				
BOWERSMF	BOWERS MFG. CO.			
BREEZE	BREEZE FITTINGS			
BUDD	BUDD CO THE RAILWAY DIV			

BURNDY	BURNDY CORP.		
CALAMOUN	CALAMOUNT		
CAMFIL FARR	CAMFIL FARR, INC.		
CANUSA	CANUSA-EMI/JSG ELECTRIC CO.		
CARBONE	CARBONE USA		
CHGORAWH	CHICAGO RAWHIDE CO.		
CHIEFTAI	CHIEFTAIN		
CONCORD	CONCORD FOUNDRY INC.		
CONOVER	CONOVER, CE & CO		
CONTAERO	CONTINENTAL-AERO		
CONTINEN	CONTINENTAL		
CONTMFG	CONTINENTAL MFG.		
CONTNTWE	CONTINENTAL WELDING CORP.		
Contrinex	CONTRINEX, INC.		
COPLAND	COPELAND		
CORTINGA	COURTIN GASKET & RUBBER CO		
CTA	CHICAGO TRANSIT AUTHORITY		
DANACORP	DANA CORP		
DELTASCR	DELTA SCREW CO.		
DENNISON	DENNISON MFG CO		
DEVILBIS	DE VILBISS CO		
DIESELPC	DIESEL POWER & CONTROL CO.		
DJMETAL	D & J METAL CRAFT		
DURALAST	DURA-LAST		
ELASSTPN	ELASTIC STOP NUT/DIV. OF HARVARD		
Elcon National	Elcon National		
ELCTROLO	ELECTROLOCK INC.		
ELECTROC	ELECTRO CORPORATION		
ELMMACHI	ELM MACHINE CORP.		
ENGNRPRO	ENGINEERING PRODUCTS CO		
ESNA	AMERACES - AMERACE-ESNA CORP.		
FACEFIL	FACET FILTER PROD.		
FACET	FACET ENTERPRISES, INC.		
FILPRO	FILPRO CORP.		
FLOWPROD	FLOW PRODS CO		
FRNKLNEI	FRANKLIN FIBRE		
FULMER	FULMER		
GE	GENERAL ELECTRIC		
GENCABLE	GEN CABLE CORP		
GENERCAB	GENERAL CABLE		
GM	GENERAL MOTORS CORP		
GRAYLINE	GRAYLINE		
GREERSMR	GREER SMYRNA		

HAMPSHIR HAMPSHIRE SPECIALTY PROD. CO.		
HILINE	HI-LINE MFG CO.	
HOLINGSWR HOLLINGSWORTH SOLDERLESS TERMIN		
HUNTINGTON	HUNTINGTON ELECTRIC	
ICMINDUS	ICM INDUSTRIES	
ICS	INSULATION CONTRACTORS SUPPLY	
INDELECT	INDUSTRIAL ELECTRIC WIRE & CABLE	
INOVCMPO	INNOVATIVE COMPONENT SALES, INC.	
INTFILT	INTERNATIONAL FILTER MFG.	
JBINDUST	J B INDUSTRIES	
JERGENSM	JERGENS MFG CO	
JERGNSM	JERGENS MFG CO	
JMDIND	JMD INDUSTRIES	
JOHNSMNV	JOHNS-MANVILLE SALES CORP	
KNORR	KNORR BRAKE CORP.	
KONI	KONI SHOCKS	
KULKEL	KULKA ELEC CORP	
LCOMP	L-COMP	
LICON	LICON DIV OF ILLINOIS TOOL WORKS	
LITTON	LITTON VEAM	
LITTON VEAM	LITTON VEAM	
LORD	LORD MFR CORPORATION	
LORDMFG	LORD MFG CO	
MCMASTER	MCMASTER-CARR SUPPLY CO	
MERSEN USA	MERSEN USA	
MK	MORRISON-KNUDSEN CO., INC.	
MOLEX	MOLEX	
MOORE ADDISON	MOORE-ADDISON	
MOOREADD	MOORE-ADDISON	
MORRISON	MORRISON-KNUDSEN CO., INC.	
MOTIONSE	MOTION SENSOR, INC.	
NATIONAL	NATIONAL SEMICONFUCTOR	
NEWARKEL	NEWARK ELEC CO	
NTN	NTN BEARING	
NYAIRBRA	NEW YORK AIR BRAKE	
OKONITE OKONITE CO.		
PANDUIT PANDUIT CORP.		
PARKSEAL	PARKER SEALS GNP	
POLYMER	THE POLYMER CORP	
POWERPAR POWER PARTS CO		
POWERPART POWER PARTS CO		
PREMIUMT	PREMIUM TRANSIT SERVICE	
PYLENATN	PYLE NATIONAL CO	
1 I LLIVIII	I ILL WATIOWAL OU	

QUALTYTO	QUALITY TOOL, INC		
REMKE,J	,J REMKE,JOHN INC.		
Ri-del	RI DEL MANUFACTURING, INC.		
RIDELMFG	RI DEL MANUFACTURING, INC.		
RIMAR	RI-MAR, INC.		
ROCKBEST	ROCKBESTOS		
ROTAN	ROTAN, INC.		
RUKLICSC	RUKLIC, JP SCREW CO		
SAINTGOB	SAINT-GOBAIN		
SECURITYL	SECURITY LOCKNUT, INC.		
SIEMENS	SIEMENS		
SIMONS,J	SIMONS,J. P. CO.		
SKF	SKF INDUSTRIES		
SMTHOFPH	SMITH OF PHILADELPHIA		
SONIC	SONIC INC.		
SOUTHCO	SOUTHCO INC		
SOUTHHAV	SOUTH HAVEN RUBBER		
SPACECRA	SPACECRAFT COMPONENTS CORP.		
SPCTECH	SPC TECHNOLOGY		
SPORLAN	SPORLAN		
STRANCO	STRANCO PROD. INC.		
SUPRENAN	SUPRENANT		
SUPVUTRO	SUPER VU-TRON		
TAMFG	TA MFG CORP		
TECTRAN	TEC TRAN CORP.		
THERMIKING	THERMO-KING		
THOMSBET	THOMAS & BETTS CO		
TRANSAME	TRANSIT AMERICA		
TRANSTEC			
TRISON	TRANSTECH (FORMERLY RINGSDORFF)		
TRUARC	TRISON ASSOCIATES, INC. WALDES KOHINOOR INC		
TTAMFG			
	TTA MANUFACTURING		
TYCOELEC	TYCO ELECTRONICS		
UMPCO	UMPCO		
UNIONSWT	UNION SWITCH & SIGNAL CO		
VAPOR	VAPOR CORP		
VEAMCO	VEAM CO.		
VIKING	VIKING PUMPS		
VOSSENG	VOSS ENGINEERING, INC.		
WABCO	WABCO - ATLANTA, GA.		
WEGMANN	WEGMANN AND COMPANY		
ZLMACHIN	Z & L MACHINING		



CHICAGO TRANSIT AUTHORITY REQUISITION NO. C12RI101317082

Request for Proposals (RFP)

for

Sourcing and delivery of parts required to perform in-house "C-Lite" overhauls on 2600 series railcars

Confidentiality and Non-Disclosure: Firms requiring assistance shall contact only Tim Polacek, Procurement Administrator, 312-681-2481; or, Karen Brosnan, Manager, Purchasing, 312-681-2487. Firms, including all team sub-consultants, who contact any CTA personnel, either verbally or in writing, concerning this solicitation package, are in violation of the procedures for this procurement and any submitted proposals may be disqualified. Prime consultants are required to sign and submit the "RFP Non-Disclosure Statement Contractor" (Appendix I) with the proposal and to require all sub-consultants to submit signed copies of the "RFP Non-Disclosure Statement Sub-Contractor" (Appendix I) with the proposal.

ISSUED BY

Purchasing Department, Chicago Transit CTA 567 West Lake Street, Chicago, Illinois 60661-1498 David Johnson, Vice President, Purchasing and Warehousing Forrest Claypool, President Terry Peterson, Chairman

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III.	Proposal Requirements	8
IV.	Evaluation Criteria and Process	12

APPENDICES

Appendix A Price Proposal Forms

Price Proposal Form Cost Component Form

Appendix B Contract for Parts

General Conditions

US DOT/FTA Contractual Requirements

Special Conditions

Appendix C Special Conditions: DBE Requirements

Appendix D Bills of Material (BOMs)

Appendix E Detail Specifications

Appendix F CTA Drawings

Appendix G Bid Protest Procedures

Appendix H Certifications, Execution, Disclosures & Acceptance

Certification Regarding a Drug-free Workplace

Certification of Primary Participant Regarding Debarment Certification of Lower Tier Participant(s) Regarding Debarment

Certification Regarding Lobbying Proposer's Execution Signature Page

Disclosure of Ownership

Acceptance

Appendix I RFP Non-Disclosure Statements

Appendix J Vendor Reference Form

Appendix K Table of Exceptions

I. BACKGROUND & INTRODUCTION

The Chicago Transit Authority ("CTA") plans to perform an in-house overhaul of 100 of its 2600-series rail cars. The 2600 series, totaling 600 cars numbered 2601-3200, were built and delivered between 1981-1987. 598 of these cars received their midlife overhaul between 1998-2002. Over the past three years, CTA has conducted an in-house overhaul program ("C-lite") at its Skokie Shop Rail Heavy Maintenance facility, performing life-extending overhauls on 300 rail cars. Based on current fleet projections and service requirements for the next several years, CTA has determined that 100 additional 2600-series rail cars should be overhauled.

With this Request for Proposals ("RFP"), CTA seeks to obtain the services of an experienced and capable railcar parts supplier to take responsibility for the sourcing and delivery of the parts and materials required to perform these 100 additional overhauls. CTA has developed several comprehensive Bills of Material ("BOMs") specifying the material required.

Contract award selection will be made on a "best value" basis; while the total price paid is the primary consideration, CTA will weigh price proposals against technical criteria such as the delivery plan and the qualifications and experience of the proposing firm. (see *IV. Evaluation Process and Criteria*). CTA may award one or more contracts as a result of this RFP, based on what represents the best value to the CTA. If possible, CTA's preference is to award a single contract. The RFP will proceed according to the following timeline, subject to revision by CTA:

Solicitation of Request for Proposals Final date for vendor questions CTA addendum response to questions Proposal Due Date Thursday, December 6, 2012 Friday, December 21, 2012 Friday, January 4, 2013 Friday, January 18, 2013

PROPOSAL SUBMITALS

All proposals must be submitted by 3:30 pm, Chicago local time, on the due date listed above to:

Chicago Transit Authority Bid Office, 2nd Floor 567 W. Lake Street Chicago, Illinois 60661-1498

Each package submitted must have the RFP requisition number, C12RI101317082, printed on the outside of the package as well as a listing of the package's contents.

QUESTIONS, CLARIFICATIONS AND OMISSIONS

All correspondence, communication and contact in regard to any aspect of this solicitation or offers shall be only with the Senior Procurement Administrator, identified on page 4. Proposers and their representatives shall not make any contact with or communicate with any member of the CTA, or its employees and consultants, other than the designated Senior Procurement Administrator, in regard to any aspect of this solicitation or offers. Telephone calls may be used to expedite communications but shall not be official communications unless confirmed in writing.

At any time during this procurement up to the time specified in "Background & Introduction", Page 3 of 11, Proposers may request, in writing, a clarification or interpretation of any aspect, a change to any requirement of the bid document, or any addenda to the bid document. Such written requests shall be made to the Senior Procurement Administrator.

Any request for a change to any requirement of the Contract documents must be fully supported with technical data, test results or other pertinent information showing evidence that the exception will result in a condition equal to or better than that required by the bid document, without a substantial increase in cost or time requirements. If it should appear to a prospective Proposer that the performance of the Work under the Contract, or any of the matters relating thereto, is not sufficiently described or explained in the bid document or Contract documents, or that any conflict or discrepancy exists between different parts of the Contract or with any federal, state, local or CTA law, ordinance, rule, regulation or other standard or requirement, then the proposer shall submit a written request for clarification to the CTA within the time period specified in "Background & Introduction", Page 3 of 13.

ADDENDA

The Chicago Transit Authority reserves the right to amend the RFP document at any time. Any amendments to the document shall be described in written addenda. Notification of or the addenda also will be distributed to all such prospective Proposers officially known to have received the RFP document. Failure of any prospective Proposers to receive the notification or addenda shall not relieve the Proposer from any obligation under the RFP document therein. All addenda issued shall become part of the RFP document.

Prospective Proposers shall acknowledge the receipt of each individual addendum in their RFP document on the form "Proposers Execution Signature Page" in Appendix H. Failure to acknowledge in the RFP document receipt of addenda may at the CTA's sole option disqualify the Proposal.

If the CTA determines that the addenda may require significant changes in the preparation of proposals, the deadline for submitting the proposals may be postponed no less than five (5) days from the date of issuance of addenda or by the number of days that the CTA determines will allow Proposers sufficient time to revise their proposals. Any new due date shall be included in the addenda.

INQUIRIES

Refer all inquiries about this procurement to T. Polacek Procurement Administrator, telephone (312) 681-2481. E-mail: tpolacek@transitchicago.com

II. SCOPE OF SERVICES

Overhaul Material Requirements

CTA has identified the following material requirements for the light overhaul of 100 2600-series cars. Many items are grouped into kits containing many items that must be delivered together. The full Bill of Material listings, including identification of all approved manufacturers for each item, detail specifications, and applicable CTA Drawing Nos. for machined items, can be found in **Appendices D, E, & F.**

			Includes
Description	BOM #	Qty Required	Drawings*
Kit: Truck overhaul	R-BOM-002	50	Υ
Kit: Master controller overhaul	R-BOM-010	50	
Kit: CAM group overhaul	R-BOM-020	50	
Kit: Cams, plates, gears, spacers	R-BOM-030	50	
Kit: Traction motor	R-BOM-040	50	
Kit: A/C unit overhaul	R-BOM-050	100	
Kit: Control group contactors	R-BOM-060	50	
Kit: Door relays and switches	R-BOM-070	50	
Kit: HPCU Rebuild	R-BOM-080	100	
Kit: Threshold, self-cleaning		400	Υ
Sensor: Proximity		1,400	
Encoder: Incremental		100	
Track: Side door		800	
Operator: Door, complete		400	
Spring: Carbody, inner		400	Υ
Spring: Carbody, outer		400	Υ
Reverser: New style		100	

CTA ideally seeks to award a single contract for the sourcing and delivery of the entire material requirement listed above. However, in recognition of the broad range of sources for these components, CTA will also evaluate proposals offering a portion of the required materials, provided such an offer can meet CTA's project schedule requirements. The number of items offered will be evaluated. The more items offered, the higher the score.

Vendors will propose pricing for any of the sixteen items listed on the Price Proposal Form, (see **Appendix A**). They will then be given the opportunity to offer discounts for offering multiple items. For example, a Proposer may choose to price five of the sixteen items. The Proposer would then have the opportunity to offer a discount should CTA choose to award that Proposer all five of the items. Proposers who seek award for the entire material requirement must also enter pricing for each of the sixteen items. They will then submit a price under "Complete Sourcing Pricing Proposal" for all material required. Listing a discount is unnecessary as it will hopefully be reflected in the "All Material Required" pricing.

Approved manufacturers and item numbers

Where approved manufacturers and manufacturers' part numbers are given in **Appendix D**, these are the **only** items currently approved for the relevant application by CTA's Rail Technical Services department.

Conditions, Exceptions, Reservations or Understandings

Proposers are cautioned to limit exceptions, conditions and limitations to the provisions of this RFP, as they may be determined to be so fundamental as to cause rejection of the proposal for not responding to the requirements of the RFP.

Any and all deviations must be explicitly, fully and separately stated in the proposal by completing **Table of Exceptions** (APPENDIX K), setting forth, at a minimum, the specific reasons for each exception so that it can be fully considered and, if appropriate, evaluated by the Chicago Transit Authority. All exceptions shall be evaluated in accordance with the appropriate evaluation criteria and procedures and may result in the Proposer receiving a less favorable evaluation than without the exception.

Table of Exceptions Form, (APPENDIX K.), shall be included in the Technical package.

Items with Drawings

Several items listed do not have any approved manufacturers or part numbers but rather are given only with a CTA drawing. These items will need to be manufactured to CTA's specifications. Any item, to be manufactured from a shop not previously approved by CTA engineers, will require an initial inspection for conformance to CTA's drawing and specification.

Project Manager

Proposers must identify their Project Manager, who will serve as the primary point of contact with whom CTA will arrange and schedule individual shipments, communicate project status and any ongoing requirements.

Delivery

Shipments

The selected vendor(s) will be responsible for shipping all contracted items to the attention of Julian Sandu, or his designee, CTA's Skokie Shops facility at 3701 Oakton, Skokie IL. 60076-3498. Mr. Sandu must be contacted one week prior to each shipment at 847-682-5141, e-mail: jsandu@transitchicago.com

A key goal of this RFP is to mitigate the risk of CTA lacking certain components necessary to perform car overhauls while simultaneously holding significant on-hand quantities of overhaul material.

Shipments are therefore expected to include all material necessary for CTA to initiate the overhaul program and maintain its production rate. The Contractor may arrange for items to be delivered directly from manufacturers to CTA, when warranted and with approval of the CTA Project Manager. However, all material must, if applicable, be kitted or packaged as required and specified in **Appendices D-F**.

The Contractor may invoice for material upon CTA's receipt and acceptance of each shipment. Acceptance shall be at the discretion of CTA's Project Manager, including consideration of those items requiring additional quality inspection/assurance measures.

Pre-Delivery Kit Approval

One month prior to the delivery date for the initial delivery of material for the overhaul of 22 cars, Contractor will ship to the CTA enough material to overhaul one married pair of railcars. CTA will inventory the material and complete a prototype installation on the two railcars. Within two weeks of the delivery of the parts, or, at the completion of the prototype installation, whichever occurs first, CTA will notify the Contractor of any necessary changes that must be made to the kits prior to the start of the delivery schedule as planned.

Project and Delivery Schedule

CTA seeks to begin the overhaul program in Q2 2013, with a production rate of approximately 8 cars/month.

The initial material delivery must contain, enough material for the overhaul of 22 cars. Subsequent deliveries on a monthly or bi-monthly (every 2 months) basis must support a production rate of 8 cars/month.

Any deviations from the contractual delivery schedule must be pre-arranged and accepted in writing by CTA's Project Manager to avoid incurring liquidated damages.

Delivery Plan & Commitment

Proposers are to specify their initial delivery date for the delivery of material for the initial 22 cars, as well as their delivery plan to support continuous production of 8 cars/month for the duration for the project.

In the interest of minimizing schedule risk and maximizing predictability, Proposers will be subject to a rate of liquidated damages that will accrue should delivery deviate beyond certain thresholds. (See Special Conditions in APPENDIX B)

III. PROPOSAL REQUIREMENTS

A. Format

Submittals shall be prepared on standard size paper (8 ½" x 11"); if any binding is used, it should be removable and on the left side. The proposal shall contain sufficient detail to enable the CTA to evaluate it according to the criteria outlined in <u>Section IV, Evaluation Process and Criteria</u>. The CTA may request additional written information and/or oral presentations.

Each proposal is to consist of three parts, to be packaged separately, as follows:

Part 1 - Technical Proposal (Original plus 4 copies)

Part 2 - Price Proposal (Original plus 4 copies)

Including completed: Price Proposal forms (Appendix A), Disclosure(s) of Ownership, Certification(s) Regarding Primary and Lower Tier Debarment, Lobbying Certification(s), Drug Free Workplace Certification(s), History of Firm(s), Contract Execution, Non-Disclosure Statement form(s), and Vendor Reference Form(s), (Appendices H – J)

Part 3 - Disadvantaged Business Enterprise (DBE) Proposal (Original plus 3 copies)

Submittal cover letters must contain a commitment to provide the parts and services described in this RFP. Each cover letter must include the name and address of your company, the requisition number & the project name, and the name, title, address and telephone numbers and signature of a representative of the vendor who is authorized to negotiate a contract with Authority and/or whom we may contact with questions regarding your response.

Proposers should refrain from using expensive materials for their Submittals. All Submittals become the property of CTA and will not be returned. All costs incurred in the preparation and presentation of the proposal are the responsibility of the Proposer. Issuance of this RFP does not commit CTA to pay any cost incurred in the preparation of this proposal. Proposers are advised to adhere to the submittal requirements. Failure to comply may be cause for rejection of the submission.

B. Content

PART 1 TECHNICAL PROPOSAL

The following elements shall be addressed in the technical proposal:

1. Delivery Plan

a) Startup Date

Proposers should state the date to which they will commit to begin deliveries to CTA (see **Section II – Scope of Service –** *Delivery***)**. CTA seeks to begin the overhaul program in Q2 2013, and considers this a baseline target to begin material deliveries.

b) Delivery Scheduling & Approach

Proposers should describe their approach to ensuring material is delivered to CTA according to the scheduling needs of its overhaul program. This should include discussion of, at minimum:

- Plan to meet requirements for startup and ongoing production
- Method of grouping/splitting shipments
- Preliminary schedule of deliveries based on Startup Date and CTA's stated production rate

c) Liquidated damages for late delivery

CTA seeks to minimize uncertainty in scheduling the overhaul program. Liquidated damages will accrue for significant deviations from the delivery schedule, to be assessed in accordance with the contract terms (see **Appendix B**). Damages are to be based on a fixed rate per calendar day beyond the commitment delivery dates, and would begin accruing three business days after a committed delivery date without prior written approval for a rescheduled delivery by the CTA Project Manager. Therefore, Proposers should describe how they plan to safeguard against late deliveries.

2. Qualifications of Firm & Personnel

a) Supply chain facilities & resources

Proposers should identify and describe the facilities and resources that will support the sourcing and delivery of material. This includes, but is not limited to:

- The location, size, and staffing of any warehouse/inventory facilities that will be used to inspect, store, kit, package, and ship materials.
- In-house or contracted technical expertise on rail transit vehicle parts, including expertise in propulsion systems, truck assemblies, and other sub-systems.
- Existing relationships with original equipment manufacturer(s) (OEM) for required materials. Identify these OEMs. If possible, provide a statement from each OEM that they will be able to support your delivery schedule for this project.
- Relationships with machine shops and other fabricators to produce items based on CTA's specifications and drawings, as needed. Identify the shop(s) that you will partner with to fabricate parts as necessary.

b) Key Staff Qualifications

This section must contain the resumes for all key personnel who will be involved in the engagement, including the proposed Project Manager. The Proposer must identify the contractor representatives, their specialized experience, and professional qualifications as it relates to this contract as described in <u>Section II. Scope of Services.</u>

Proposed personnel are expected to have demonstrable successful experience in the following areas, at minimum:

- Sourcing and distribution of rail transit vehicle parts
- Project management and scheduling

c) Firm Experience

Applicable Firm qualifications must be presented in this section covering the Proposer's experience on similar or related rail vehicle sourcing projects. CTA would ideally expect Proposers to demonstrate at least three comparable major rail vehicle parts sourcing projects that it has successfully completed in the past 5 years.

Proposers shall provide client references for such projects using the attached Vendor References Form provided in **Appendix J.**

d) Firm Finances

Documents supporting a firm's and subcontractor(s)' financial stability and ability to perform the contract must be included as well.

Respondent must provide audited financial statements or any other documentation demonstrating sufficient financial capacity to successfully complete this project. Also provide any information pertaining to any past bankruptcy, contract defaults and violations of any regulatory acts. This information will be used to determine vendor responsibility. The primary responsibility consideration will be the firm's financial capacity to acquire, hold, and deliver all material offered in its proposal, and its ability to meet delivery commitments and potential penalties.

3. Table of Exceptions/Deviations

The summary must state whether the Proposal does or does not fully comply with the requirements as defined in this RFP and shall provide a detailed list of exceptions to the Scope of Services or other RFP requirements including all exhibits and appendices. This list must be in table form (Appendix K) and must identify the page, section number, provision and the specific exception, non-conformance and/or substitute language proposed. Failure to identify any specific items of non-compliance will result in CTA assuming compliance. The CTA, at its sole discretion may reject any exception within the proposal.

PART 2 PRICE PROPOSAL

A fully completed Price Proposal must include the following items:

- A letter of transmittal signed by a representative of the consultant authorized to negotiate with the CTA, specifying the validity period of the Price Proposal.
 NOTE: The Price Proposal must be valid for a minimum of one hundred eighty (180) days following the final Proposal Due Date and be signed by an authorized representative of the proposing firm. Each succeeding proposal, revised proposals or BAFOs, must be valid for a minimum of one hundred eighty (180) days following the date that CTA has established as the due date for the revised proposal or BAFO.
- 2. A completed Price Proposal sheet (see **Appendix A**).
 - Proposers are not required to submit pricing for all lines on the Price Proposal sheet, however, the number of lines priced will be factored into the Proposal evaluation.
- 3. A completed Cost Proposal sheet (see **Appendix A**). CTA seeks to ensure that the cost factors of this procurement are fair and reasonable, and therefore requests disclosure of the key cost components within the pricing offered:
 - · Cost of materials
 - Cost of overhead (management, delivery, etc.)
 - Profit margin
- 4. Signed copies of all CTA certification forms provided in **Appendix H**. Additionally, please include completed Ownership, Lower-Tier Debarment Certification forms and Subcontractor RFP Non-Disclosure forms, as required, for any proposed subcontractors.

PART 3 DISADVANTAGED BUSINESS ENTERPRISE (DBE) INVOLVEMENT PROPOSAL

Proposers must complete the DBE requirements as required by **Appendix C** - DBE Requirements and **submit separately** from Technical Proposal and Price Proposal. Proposers must describe their firm's policy and approach to utilize disadvantaged firms in order to comply with the DBE Requirements. The CTA encourages any team arrangements that will work to the benefit of this project. If such arrangements are made, the contractor must assume full responsibility for the work performed by all sub-contractors.

All proposed DBE firms must be certified as DBE's by the Illinois Unified Certification Program (IL UCP).

IV. EVALUATION CRITERIA AND PROCESS

Evaluation Criteria

In reviewing and evaluating the Technical Proposals submitted to this RFP, the CTA will consider the following primary criteria, which are considered to be equally important. Under each primary criteria are sub-criteria which are listed in the order of their relative importance, beginning with the most important.

1. Delivery Plan Commitment

- Date of first delivery
- Schedule of delivery to maintain production
- Safeguards for on-time delivery
 - Number and type of exceptions
- Number of items offered

2. Qualifications of Firm and Personnel

- Firm's experience on similar projects
- Firm's finances
- Facilities and resources
- Key staff qualifications

Evaluation Process

All responses will be evaluated by one or more evaluation committee(s) to determine the competitive range of Proposers. After determining which Proposers are in the competitive range, the CTA may conduct negotiations with those Proposers to discuss any deficiencies in their proposal and to ensure that the Proposers fully understand all the requirements of this RFP and have, or can obtain, all required equipment, personnel, materials, etc. required to successfully perform.

However, CTA may elect to award one or more contracts based only on the initial proposals submitted, with no negotiations.

Should negotiations occur, CTA may request additional information, including but not limited to revised pricing or delivery schedules, and to determine the veracity of information submitted. A proposal found to be based on inaccurate or misrepresented information may be dismissed from further consideration. Firms successfully completing negotiations may be invited to submit a Best and Final Offer (BAFO) reflecting final pricing and delivery based on all clarifications and discussions.

Selection Basis

CTA will award one or more contracts on the basis of the best value to CTA, with a side-by-side evaluation of each Proposer's Technical Score and total pricing. CTA may elect to award to other than the lowest priced Proposer on the basis of superior qualifications and/or a more favorable delivery plan (earlier delivery start and a more secure plan for on-time delivery).

APPENDICES

Appendix A Price Proposal Forms

Price Proposal Form Cost Component Form

Appendix B Contract for Parts

General Conditions Special Conditions

US DOT/FTA Contractual Requirements

Appendix C Special Conditions: DBE Requirements

Appendix D Bills of Material (BOMs)

Appendix E Detail Specifications

Appendix F CTA Drawings

Appendix G Bid Protest Procedures

Appendix H Certifications & Disclosures

Certification Regarding a Drug-free Workplace

Certification of Primary Participant Regarding Debarment Certification of Lower Tier Participant(s) Regarding Debarment

Certification Regarding Lobbying Proposer's Execution Signature Page

Disclosure of Ownership

Acceptance

Appendix I RFP Non-Disclosure Statements

Appendix J Vendor Reference Form

Appendix K Table of Exceptions

APPENDIX A

PRICE PROPOSAL FORM

Price Proposal Form

Individual Pricing Proposal

Line #	Description	BOM#	Qty Req'd	Extended Price *	Avg Unit Price **
1	Kit: Truck overhaul	R-BOM-002	50	\$	\$
2	Kit: Master controller overhaul	R-BOM-010	50	\$	\$
3	Kit: CAM group overhaul	R-BOM-020	50	\$	\$
4	Kit: Cams, plates, gears, spacers	R-BOM-030	50	\$	\$
5	Kit: Traction motor	R-BOM-040	50	\$	\$
6	Kit: A/C unit overhaul	R-BOM-050	100	\$	\$
7	Kit: Control group contactors	R-BOM-060	50	\$	\$
8	Kit: Door relays and switches	R-BOM-070	50	\$	\$
9	Kit: HPCU Rebuild	R-BOM-080	100	\$	\$
10	Kit: Threshold, self-cleaning		400	\$	\$
11	Sensor: Proximity		1,400	\$	\$
12	Encoder: Incremental		100	\$	\$
13	Track: Side door		800	\$	\$
14	Operator: Door, complete		400	\$	\$
15	Spring: Carbody, inner		400	\$	\$
	Spring: Carbody, outer		400	\$	\$
16	Reverser: New style		100	\$	\$

Notes

Discount for Bundling Line Items

Discount	Line items included (1 through 16)
%	
%	
%	

Complete Sourcing Pricing Proposal

All material required	All Lines	\$
Signature of Authorized C	Official	Date

^{*} Basis of Evaluation

^{** (}Extended Price / Qty Req'd)

Cost Component Disclosure

For each *Extended Price* quoted on the Price Proposal form, please disclose the percentage of each of these primary cost component factors:

- Cost of Materials (%)
 - o Direct cost of obtaining or producing materials
- Cost of overhead (%)
 - o Cost of management, administration, storage, delivery, analysis, etc.
- Profit

Percentages disclosed may be rounded to the nearest full number/integer

For example,

Cost of Materials - 74% Cost of overhead - 17% Profit - 9%

APPENDIX B

CONTRACT FOR PARTS

CONTRACT FOR SUPPLIES

GENERAL CONDITIONS

1. NON-DISCRIMINATION:

The Contractor, in performing under this Contract, shall not discriminate against any worker, employee or applicant or any member of the public, because of race, creed, color, age, sex ancestry, handicap or national origin, nor otherwise commit an unfair employment practice. The Contractor further agrees that this Article will be incorporated by the Contractor in all contracts entered into with suppliers of materials or services, contractors and subcontractors, and all labor organizations furnishing skilled, unskilled and craft union skilled labor, or who may perform any such labor or services in connection with the Contract.

The Contractor's attention is called to the provisions of the Illinois Human Rights Act, which are hereby incorporated by reference.

To demonstrate compliance, the Contractor and his subcontractors will furnish such reports and information as requested by Chicago Transit Authority or any Federal, State or local government or agencies that may require such information as a condition of financial assistance in whole or in part.

2. DISADVANTAGED BUSINESS ENTERPRISES:

All parties are hereby notified that in regard to any contract resulting from this invitation to bid, Disadvantaged Business Enterprises will be afforded full opportunity to participate, and will not be discriminated against because of race, color, sex, or national origin in consideration for an award.

3. INDEMNIFICATION:

The contractor shall indemnify, keep and hold harmless the Chicago Transit Authority, its officers, employees and agents against all injuries, deaths, losses, damages, claims, suits, liabilities, judgments, costs and expenses, of whatever kind, including but not limited to attorney's fees, which may accrue against the Chicago Transit Authority, its officers, employees and agents arising out of, as a result of, or in consequence of the acts or omissions of the Contractor in furtherance of the contract, including acts or omissions of the Contractor's servants, employees, subcontractors, agents, or officers, in the performance of the work covered by the contract.

4. SUBLETTING OR ASSIGNMENT OF CONTRACT OR CONTRACT FUNDS:

No contracts shall be assigned or sublet in whole or in part without the written approval of the Purchasing Agent, and in no case shall such written approval relieve the Contractor from his obligations or change the terms of the Contract Documents.

The Contractor shall not transfer or assign any contract funds or claims due or to become due without the written approval of the Purchasing Agent having been first obtained.

5. GUARANTEES AND WARRANTEES:

All guarantees and warrantees required shall be furnished by the Contractor and shall be delivered to the Purchasing Agent or his designee before final payment on the contract is issued.

6. DELIVERY:

All materials shipped to the Chicago Transit Authority must be shipped F.O.B. destination location. Chicago Metropolitan Area, Illinois. If prior delivery notification is specified, arrangements must be made by the vendor with the Authority's designated receiving location at least 24 hours in advance to arrange for receipt of the materials. The material must then be delivered where directed and as agreed upon.

Unless otherwise specified or agreed upon, truck deliveries to locations other than 567 W. Lake will be accepted not earlier than 7:00 A.M. and not later than 3:00 P.M. on weekdays only. No deliveries will be accepted on Saturdays, Sundays or Holidays. Deliveries to 567 W. Lake shall be made between 8:00 A.M. and 4:00 P.M., on weekdays only.

The quantity of material delivered by truck shall be ascertained from a weight certificate issued by a duly licensed Chicago Public Weigh-Master upon request. In the case of delivery by rail, weight will be ascertained from bill-of-lading from originating line, but the Authority reserves the right to re-weigh at the nearest available railroad scale.

7. DEMURRAGE AND RE-SPOTTING:

The Authority will be responsible for demurrage charges only when such charges accrue because of the Authority's failure to unload the material.

The Authority will pay railroad charges due to the re-spotting of cars, only when such re-spotting is ordered by the Authority.

8. MATERIALS INSPECTION AND RESPONSIBILITY:

The Purchasing Agent, or his designee, shall have a right to inspect any materials to be used in carrying out this contract.

The Authority does not assume any responsibility for the availability of any controlled materials or other materials and equipment required under this contract. All materials and equipment furnished under the contract shall be new, unless otherwise specifically stated.

The Contractor shall be responsible for the contracted quality and standards of all materials, components or completed work furnished under this contract.

Materials, components or completed work not complying therewith may be rejected by the Purchasing Agent or his designee and shall be replaced by the Contractor at no cost to the Authority.

Any materials or components rejected shall be removed within a reasonable time from the premises of the Authority, at the entire expense of the Contractor, after written notice has been mailed by the Authority to the Contractor that such materials or components have been rejected.

9. PAYMENT:

Payment to Contractor shall be as specified in Special Conditions of this contract.

10. CASH BILLING DISCOUNT:

Cash Billing or percentage discount for payment of invoices within a specified period of time will **not** be considered by CTA in evaluating bids. When determining if it has earned a cash billing discount offered by the contractor, CTA will consider the date of the invoice plus two days for mailing or the date of receipt of the goods or services, whichever is later, and will end on the date the check is mailed in payment of the invoice. If a discount period ends on a Saturday, Sunday or legal holiday, the discount periods will be extended to the next succeeding workday.

11. INVOICES:

Invoices must be sent to the Chicago Transit Authority, Accounts Payable, 567 W. Lake Street, Chicago, IL 60661-1465. Invoices must bear the order number and, if an annual contract, release number as issued. Invoices must not cover more than one order or release number.

12. DISPUTES:

Any dispute concerning a question of fact arising under the Contract Documents that is not resolved by an agreement between the CTA and the Contractor will be decided by the General Manager of Purchasing. The General Manager of Purchasing will reduce the decision to writing and send a copy of it by certified mail, return receipt requested, to the Contractor.

The decision of the General Manager of Purchasing will be final and binding on the Contractor unless, within thirty (30) days after receipt of a copy of a decision, the Contractor sends by certified mail, return receipt requested, a written appeal to the CTA's Vice President, Purchasing and Warehousing. In connection with such an appeal, the Contractor will have an opportunity to be heard and to offer evidence in support of its appeal. The decision of the Vice President, Purchasing and Warehousing will be final and binding on the Contractor unless the Contractor files an action to challenge the decision in a court of competent jurisdiction in Chicago, Illinois and the court determines the decision to be arbitrary and capricious or obtained by fraud. If the Contractor does not commence such an action for judicial review within 60 days after the Contractor receives a copy of the decision of the Vice President, Purchasing and Warehousing, the Contractor waives all right to seek judicial review. Nothing in this relieves the Contractor from diligently proceeding with the Work under the Contract, as directed by the CTA.

13. EXECUTION:

All business which submit responses or bids and all businesses awarded contracts by the CTA are hereby notified that no contract, modification, amendment, change order or extension, if any, shall be effective, or in any way obligate the CTA, until it has been executed by the CTA signatory duly authorized by the CTA's Regulations, By Laws, and Procedures.

STANDARD GOVERNMENT REQUIREMENTS FOR MATERIAL AND EQUIPMENT PURCHASES

This contract is subject to financial assistance contracts between the U.S. Department of Transportation (DOT), Federal Transit Administration (FTA), the State of Illinois Department of Transportation (IDOT), Division of Public Transportation (DPT), and the Chicago Transit Authority (CTA).

The following clauses are included as part of the specification for the proposed contract and for each of its related subcontracts.

- A. CONTRACT CHANGES. Any proposed change in this contract shall be submitted to the Chicago Transit Authority for its prior written approval.
- **B. INTEREST OF MEMBERS OF CONGRESS.** No members of, or delegate to, the Illinois General Assembly or the Congress of the United States shall be admitted to any share or part of this contract or to any benefit arising therefrom.
- C. PROHIBITED INTERESTS. No member, or officer, or employee of Chicago Transit Authority or a local public body with financial interest or control in this contract during his tenure or for one year thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof.
- D. INELIGIBLE CONTRACTORS. A prospective Contractor who is debarred, suspended or deemed ineligible for contracting by CTA shall not be awarded a contract. Furthermore, for federally funded contracts, a Contractor who is suspended or debarred from federal programs under DOT regulations, "Nonprocurement Suspension and Debarment," 2 CFR Parts 180 and 1200, or under the FAR at 48 CFR Chapter 1, Part 9.4 shall not be awarded a contract. The Procurement Administrator will check the System for Award Management, www.sam.gov and document the results in the contract file.
- E. NONDISCRIMINATION. In connection with the execution of this contract, the contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, ancestry or handicap. The contractor shall take affirmative actions to insure that applicants are employed and that employees are treated during their employment, without regard to their race, religion, color, sex, national origin, ancestry or handicap. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection of training, including apprenticeship.
- F. ILLINOIS HUMAN RIGHTS ACT Equal Employment Opportunity. During the performance of this contract, the contractor agrees as follows.
 - 1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are under utilized and will take appropriate affirmative action to rectify any such underutilization.
 - 2. That it will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
 - 3. That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
 - 4. That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations."

G. ENVIRONMENTAL AND ENERGY PROTECTION AND CONSERVATION REQUIREMENTS. All facilities and equipment will meet the criteria for air and water pollution control and energy conservation as follows:

"All facilities and equipment acquired, constructed, reconstructed, or improved using FTA and DPT grant funds, shall be designed and equipped to prevent or control air and water pollution in accordance with criteria issued by the Department of Health, Education and Welfare. However, in those locations where State or local air and water pollution regulations are in force, the more restrictive criteria shall govern."

"All contractors and suppliers must submit evidence to CTA that the governing air and water pollution criteria will be met. This evidence and related documents will be retained by the sponsor for on site examination by FTA and DPT representatives."

"All contractors and suppliers shall recognize mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. § 6321 et seq.)."

- H. SPECIFIC MATERIALS AND/ OR SPECIFIC EQUIPMENT. Wherever in these Specification an article, equipment or material is defined by describing a proprietary product or by using the name of a manufacturer or vendor or trade name including catalogue numbers and/ or part numbers and/ or drawing numbers, the term "or equal" if not inserted shall be implied. The specific article, equipment or material mentioned shall be understood as establishing the type, function and minimum standard of design, efficiency, quality and performance desired and shall not be construed in such a manner as to exclude manufacturer's products or comparable design, efficiency, quality and performance. CTA engineers shall decide whether or not the article, equipment or material proposed by the bidder or contractor is equal to that specified in the Specification and acceptable to the CTA.
- I. CARGO PREFERENCE USE OF UNITED STATES-FLAG VESSELS. The contractor agrees:
 - 1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, materials or commodities pursuant to this Contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.
 - 2. To furnish within 20 days following the date of loading for shipments originating within the United States, or within 30 working days following the date of loading for shipments originating outside the Untied States, a legible copy of a rated, "on-board" commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (1) above to the Grantee (through the prime contractor in the case of subcontractor bill-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, 400 Seventh Street, S.W., Washington, D.C. 20590, marked with appropriate identification of the Project.

CONTRACT FOR SUPPLIES

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL TRANSIT ADMINISTRATION REQUIREMENTS

In addition to the Standard Government Requirements for Material and Equipment Purchases, the Contractor is also required to comply with the following clauses required by the U.S. Department of Transportation Federal Transit Administration as applicable.

- 1. <u>Seismic Safety Requirements</u> The Contractor agrees that any new building or addition to an existing building will be designed and constructed in accordance with the standards for Seismic Safety required in Department of Transportation Seismic Safety Regulations 49 CFR Part 41 and will certify to compliance to the extent required by regulation. The Contractor also agrees to ensure that all work performed under this contract including work performed by a subcontractor is in compliance with the standards required by the Seismic Safety Regulations and the certification of compliance issued on the project.
- 2. Recycled Products The Contractor agrees to comply with all the requirements of Section 6002 of the Resource Conservation and Recovery Act (RCRA), as amended (42 U.S.C. 6962), including but not limited to the regulatory provisions of 40 CFR Part 247, and Executive Order 12873, as they apply to the procurement of the items designated in Subpart B of 40 CFR Part 247.
- 3. No Obligation by the Federal Government The Contractor acknowledges and agrees that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this contract and shall not be subject to any obligations or liabilities to the Contractor, or any other party pertaining to any matter resulting from the underlying contract.
- **4.** <u>Privacy Act</u> The following requirements apply to a Contractor and its employees that administer any system of records on behalf of the Federal Government under any contract.
 - A) The Contractor agrees to comply with, and assure the compliance of its employees with, the information restrictions and other applicable requirements of the Privacy Act of 1974, 5 USC subsection 552a. The Contractor agrees to obtain the express consent of the Federal Government before the Contractor or its employees operate a system of records on behalf of the Federal Government. The Contractor understands that the requirements of the Privacy Act, including the civil and criminal penalties for violation of the Act, apply to those individuals involved, and that failure to comply with the terms of the Privacy Act may result in termination of the underlying contract.
 - B) The Contractor also agrees to include these requirements in each subcontract to administer any system of records on behalf of the Federal Government financed in whole or in part with FTA funding.
- Access to Records and Reports The following access to records requirement apply to this Contract.
 - A) The Contractor agrees to provide the Authority, the FTA Administrator, the Comptroller General of the United States or any other authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to this Contract for the purposes of making audits, examination, excerpts and transcriptions. Contractor also agrees, pursuant to 49C.F.R. 633.17 to provide the FTA Administrator or his authorized representatives access to Contractor's records and construction sites pertaining to a major capital project, defined at 49U.S.C. 5302(a)1, which is receiving federal financial assistance through the programs described at 49U.S.C. 5307, 5309, or 5311. By definition, a major capital project excludes contracts of less than the simplified acquisition threshold currently set at \$100,000.
 - B) For any contract for a capital project or improvement entered into which was not the result of competitive bidding, the Contractor shall make available records related to the Contract to the Authority, the FTA and the Comptroller General or any authorized officer or employee of any of them for the purposes of conducting an audit and inspection.

- C) The Contractor agrees to permit the authorized representatives to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonable needed.
- D) The Contractor agrees to maintain all books, records, accounts and reports required under this contract, except in the event of litigation or settlement of claims arising from the performance of this contract, in which case Contractor agrees to maintain same under the Authority, the FTA Administrator, the Comptroller General, or any of their dully authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto.
- 6. Fraud and False or Fraudulent Statements or Related Acts The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. subsection 3801 et seq and U.S. Department of Transportation and FTA regulations, "Program Fraud Civil Remedies", 49 C.F.R. Part 31, apply to its actions pertaining to this Contract.

By submitting a proposal and execution of the Contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it may make, or causes to be made, pertaining to the Contract Documents. In addition to other penalties that may be applicable the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor. The Contractor also acknowledges that it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. subsection 5307, the Government reserves the right to impose the penalties of 18 U.S.C. subsection 5307(n)(1) on the Contractor, to the extent the Federal Government deems appropriate. The Contractor agrees to include the above language in each subcontract without modification, except to identify the subcontractor who will be subject to the provisions.

- 7. Incorporation of Federal Transit Administration (FTA) Terms The preceding provisions include, in part, certain Standard Terms and Conditions required by DOT, whether or not expressly set forth in the preceding contract provisions. All contractual provisions required by DOT, as set forth in the latest revision of FTA Circular 4220.1 are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Agreement. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any Authority requests which would cause the Authority to be in violation of the FTA terms and conditions.
- 8. <u>Clean Air</u> (1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, ads amended, 42 U.S.C. (7401et seq.). The Contractor agrees to report each violation to the Purchaser and understands and agrees that the Purchaser will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional Office. (2) The Contractor also agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by FTA

CONTRACT FOR SUPPLIES

SPECIAL CONDITIONS

SCOPE OF WORK ("Work")

This is a Definite-Delivery Contract to supply overhaul kits and various other parts so that CTA can complete an extended life overhaul ("C-Lite") for 100 of CTA's 2600 series railcars. The work includes a delivery plan that will ensure that CTA will have the parts it needs to perform the overhauls at a rate of eight (8) cars per month. The Contractor will supply all the material necessary to complete twenty-four (24) cars for the initial delivery and then provide a delivery schedule that must support the production rate of eight (8) cars per month.

ELECTRONIC FUND TRANSFER

CTA has adopted Electronic Fund Transfer (EFT) as the preferred method of payment for vendor invoices. An EFT enrollment form will be provided upon request to the successful proposer(s) with the executed contract and must be completed to enable payment of vendor accounts by this method. If awarded a contract, provide the completed EFT form to the CTA Purchasing Administrator identified on the title page.

PERFORMANCE/PAYMENT BOND

None required.

INSURANCE

None required.

DEFINITIONS

Unless defined otherwise herein, the following definitions apply to this Order and its attachments:

- (a) Chicago Transit Authority, CTA, Authority and Buyer are synonymous herein.
- (b) Proposer, Bidder, Seller, Vendor, Contractor and the company, organization or person(s) to whom the Order is addressed are synonymous herein.
- (c) Purchase Contract, Contract, Purchase Order and Order are synonymous herein.
- (d) Overhaul Kit, Master Kit, Part, Item, Kit, Component, Subsystem, Sub-assembly and Assembly are synonymous herein.
- (e) Day is synonymous with Calendar Day unless specified otherwise.

ACCOUNTING SERVICES

The Contract issued to the successful Bidder will state the total expenditure authorization on the signed acceptance page. Contractor shall not accept any requests for services in excess of the total Contract expenditure authorization unless authorized in writing by the General Manager, Purchasing. Contractor shall be liable for any costs incurred as a result of his failure to either notify the Authority or accept requests not authorized by the General Manager, Purchasing.

AVAILABILITY OF FUNDS

This procurement is subject to the availability of funding from financial assistance contracts between the Illinois Department of Transportation, Regional Transportation Authority and the Chicago Transit Authority. The CTA's obligation hereunder is contingent upon the availability of appropriated funds from which payment for the Contract purposes can be made. No legal liability on the part of the CTA for any payment shall arise until funds are made available to the Contracting Officer for this Contract and until the Contractor receives notice of such availability and approval, to be confirmed in writing by the Contracting Officer. Any award of Contract (including the exercise of options, if any) hereunder will be conditioned upon said availability of funds for the Contract.

DURATION OF CONTRACT

This Contract shall become effective upon Contract execution and shall remain in effect until all material specified in the Bills of Material have been delivered and accepted by the CTA.

DELIVERY

Delivery shall be FOB, destination and completed according to the final Delivery Plan proposed by the Vendor and accepted by the CTA. The individual listed below shall be the Contractor's contact for establishing delivery at CTA's Skokie Shops facility. Contractor shall provide a minimum of seven (7) days advance notice prior to delivery. Deliveries are to be made weekdays, except CTA recognized holidays, between the hours of 7:00 AM and 3:00 PM to:

CTA Skokie Shop, Rail – Heavy Maintenance
Attn: Mr. Julian Sandu or his designee
3701 W. Oakton Street
Skokie, Illinois 60076-3498

(847) 982-5141, e-mail: jsandu@transitchicago.com

PAYMENT

The Contractor shall submit an invoice for each delivery of acceptable and approved material delivered. Invoices will be paid subsequent to formal acceptance of material by CTA. Original invoices shall be forwarded to CTA Accounts Payable Department, 567 W. Lake St., Chicago, Illinois 60661. Payments will be made in Net 30 days after final acceptance of material or receipt of Contractor's invoice by CTA or in accordance with the terms of Contractor's invoice whichever is most favorable to the CTA. Payment date(s) shall be calculated from receipt of invoice or final acceptance of goods, whichever is later.

Invoices must be presented only by the vendor to which a purchase order is awarded. Invoices received from a third party will not be honored unless prior written approval from the purchasing agent has been obtained.

LIQUIDATED DAMAGES FOR LATE DELIVERIES

It is mutually understood and agreed by and between the parties to the Contract that time is of the essence with respect to the completion of the Work and that in case of any failure on the part of the Contractor to deliver the material within the time specified in the Contractor's final "Delivery Schedule" as approved by CTA, except for any excusable delays as provided in "Excusable Delays/Force Majeure" or any extension thereof, the Chicago Transit Authority will be damaged thereby. The amount of said damages, being difficult if not impossible of definite ascertainment and proof, it is hereby agreed that the amount of such damages due to the Chicago Transit Authority shall be fixed at the following schedule:

- 1. \$30,000 per business day of delay for each day beyond three business days that the initial shipment of material to overhaul 24 railcars has not been delivered as scheduled, not to exceed an aggregate of \$900,000.
- 2. \$500 per business day of delay for the first 20 business days, then \$30,000 per business day of delay for all other shipments that are delayed from the approved delivery schedule, not to exceed an aggregate of \$900,000.
- 3. If a kit is delivered as scheduled but, at inspection for acceptance, it is discovered that the kit is either incomplete or contains a defective part, CTA's Project Manager will notify the Contractor and the contractor will have three business days to provide the part(s) to complete the kit or replace the defective part. Liquidated damages will be \$500 per business day of delay beyond the three business days allowed for delivery of the replacement parts for up to the first 20 business days, then \$30,000 per day of delay not to exceed an aggregate of \$900,000.

The Contractor hereby agrees to pay the aforementioned amounts as fixed, agreed and liquidated damages, and not by way of penalty, to the Chicago Transit Authority and further authorizes the Chicago Transit Authority to deduct the amount of the damages from money due the Contractor under the Contract, computed as aforesaid. If the money due the Contractor is insufficient or no money is due the Contractor, then the Contractor shall pay the Chicago Transit Authority the difference or the entire amount, whichever may be the case, within thirty (30) days after receipt of a written demand by the Contracting Officer.

The payment of aforesaid fixed, agreed and liquidated damages shall be in lieu of any damages for any loss of profit, loss of revenue, loss of use, or for any other direct, indirect, special or consequential losses or damages of any kind whatsoever that may be suffered by the Chicago Transit Authority arising at any time from the failure of the Contractor to fulfill the obligations referenced in this clause in a timely manner.

EXCUSABLE DELAYS/FORCE MAJEURE

If the Contractor is delayed at any time during the progress of the Work by the neglect or failure of the Chicago Transit Authority or by a cause as described below, then the time for completion and/or affected delivery date(s) shall be extended by the Chicago Transit Authority subject to the following cumulative conditions:

- a. The cause of the delay arises after the Notice of Award and neither was nor could have been anticipated by the Contractor by reasonable investigation before such award. Such cause may also include force majeure events such as any event or circumstance beyond the reasonable control of the Contractor, including but not limited to acts of God; earthquake, flood and any other natural disaster; civil disturbance, strikes and labor disputes; fires and explosions; war and other hostilities; embargo; or failure of third parties, including Suppliers or Subcontractors, to perform their obligations to the Contractor;
- b. The Contractor demonstrates that the completion of the Work and/or any affected deliveries will be actually and necessarily delayed;
- c. The Contractor has taken measures to avoid and/or mitigate the delay by the exercise of all reasonable precautions, efforts and measures, whether before or after the occurrence of the cause of delay; and
- d. The Contractor makes written request and provides other information to the Chicago Transit Authority.

A delay in meeting all of the conditions of this section shall be deemed an excusable delay. Any concurrent delay that does not constitute an excusable delay shall not be the sole basis for denying a request hereunder.

None of the above shall relieve the Contractor of any liability for the payment of any liquidated damages owing from a failure to complete the Work by the time for completion that the Contractor is required to pay pursuant to "Liquidated Damages" for delays occurring prior to, or subsequent to the occurrence of an excusable delay.

WARRANTY

The proposed product furnished under this Contract shall be covered for a period of one (1) year against manufacturing defects for both labor and material. Should the manufacturer's standard warranty coverage exceed the minimum requirement, said manufacturer's standard warranty shall apply. Warranty period shall begin when the material is accepted by the CTA. Contractor shall be responsible for all warranty claims for the parts and assemblies provided under this contract.

WARRANTY CLAIMS

In the event that a vendor fails to pay approved or partially approved warranty claims within 60 days of submission, the CTA shall send the vendor written notice seeking immediate payment of the outstanding claims. If the vendor fails to pay the outstanding claims within 5 days of vendor's receipt of the written notice, the Purchasing Department shall issue a notice to cure letter providing the vendor with10 days to cure the default. If the vendor fails to cure the default, the CTA may, at its discretion, deduct the CTA's costs from 1) any unpaid contract funds, 2) any contract retainage amounts or 3) a maintenance or performance bond. If the deductions do not fully satisfy the outstanding claims, the CTA may seek additional remedies. All remedies shall be inclusive of applicable interest payments.

REIMBURSEMENT FOR LABOR AND OTHER RELATED COSTS

The CTA shall be reimbursed by the Contractor for labor. The amount shall be determined by the Chicago Transit Authority for a qualified mechanic at a straight time wage rate of \$89.38 per hour, which includes fringe benefits and overhead adjusted for the CTA's most recently published rate in effect at the time the Work is performed. These wage and fringe benefit rates shall not exceed the rates in effect in the CTA's service terminal at the time the Defect correction is made. If the straight time wage rate increases during the contract period, then those rates will apply.

REIMBURSEMENT FOR PARTS

The CTA shall be reimbursed by the Contractor for defective parts and for parts that must be replaced to correct the defect. The reimbursement shall be at the current price at the time of repair and shall include taxes where applicable, plus eighteen and one half (18.5) percent handling costs. Handling costs shall not be paid if part is supplied by Contractor and shipped to CTA. If the handling cost percent increases during the contract period, then that percentage will apply.

The CTA may require that the Contractor supply parts for warranty-covered repairs being performed by the CTA. Those parts may be remanufactured but shall have the same form, fit and function, and warranty. The parts shall be shipped prepaid to the CTA from any source selected by the Contractor within fourteen (14) days of receipt of the request for said parts and shall not be subject to a CTA handling charge.

CONTRACTUAL AUTHORITY

This Contract shall, under no circumstances grant Contractor exclusivity for providing the items and/or services as specified in this Contract and/or added during the term of this Contract. In addition, this Contract shall not prejudice the right of the CTA to seek competitive bids on such items and/or service, which cannot be provided by the Contractor in an expedited manner that are required to meet CTA needs to maintain service to the riding public during the term of this Contract that have been found to be available from alternate acceptable sources. If items are determined to be available from other sources (not identified as an O.E.M. maintenance and repair part and/or an approved equal part), such items may be purchased at will to meet CTA immediate needs and subsequently obtained through appropriate CTA procurement procedures, as applicable.

PROPRIETARY INFORMATION

All CTA specifications, drawings, blueprints, Photostats and all other information furnished to the Contractor in connection with this Order are and shall remain the property of the CTA. Contractor will keep the same confidential and will not use or reproduce the same except for the performance of this Order, and on completion or termination of this Order or upon the written demand of the CTA, Contractor shall return same. CTA reserves the right to withhold final payment until such return is made.

TERMINATION FOR DEFAULT

CTA may, by written notice of default to the Contractor, terminate the whole or any part of this Contract if the Contractor fails to make delivery of the supplies or to perform the services within the time specified herein or any extension thereof; or if the Contractor fails to perform any of the other provisions of the Contract, or so fails to make progress as to endanger performance of this Contract in accordance with its terms, and in either of these two circumstances does not cure such failure within a period of 10 (ten) days (or such longer period as the Purchasing Manager or designee may authorize in writing) after receipt of notice from the Purchasing Manager or designee specifying such failure.

In the event that CTA elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this Contract, such waiver by CTA shall not limit Procuring Agency's remedies for any succeeding breach of that or of any other term, covenant, or condition of this Contract.

If the Contract is terminated in whole or in part for default, CTA may procure, upon such terms and in such manner as the Purchasing Manager or designee may deem appropriate, supplies or services similar to those so terminated. The Contractor shall be liable to CTA for any excess costs for such similar supplies or services, and shall continue the performance of this Contract to the extent not terminated under the provisions of this clause.

Except with respect to defaults of subcontractors, the Contractor shall not be liable for any excess costs if the failure to perform the Contract arises out of causes beyond the control and without the fault or negligence of the Contractor. If the failure to perform is caused by the default of a subcontractor, and if such default arises out of causes beyond the control of both the Contractor and subcontractor, and without the fault or negligence of either of them, the Contractor shall not be liable for any excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Contractor to meet the required delivery schedule.

Payment for completed supplies delivered to and accepted by CTA shall be at the Contract price. CTA may withhold from amounts otherwise due the Contractor for such completed supplies such sum as the Purchasing Manager or designee determines to be necessary to protect CTA against loss because of outstanding liens or claims of former lien holders.

If, after notice of termination of this Contract under the provisions of this clause, it is determined for any reason that the Contractor was not in default under the provisions of this clause, or that the default was excusable under the provisions of this clause, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to termination for convenience of CTA.

The rights and remedies of CTA provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Contract.

TERMINATION FOR CONVENIENCE

The CTA may terminate this Agreement, in whole or in part, without cause, at any time, by written notice to the Contractor whenever the CTA determines that such termination is in the best interest of the CTA. Upon receipt of written notice of termination, all services and any other performance hereunder by the Contractor shall cease to the extent specified in the notice of termination. In the event of termination in whole, the Contractor shall prepare a final invoice within thirty (30) days of such termination reflecting the services actually furnished pursuant to this agreement to the satisfaction of the CTA and for which no previous invoice was submitted to the CTA. The Contractor shall be paid costs, including closeout costs, and profit for the services performed up to the time of termination. The Contractor shall promptly submit, in accordance with the terms hereof, a termination claim to the CTA and the parties shall negotiate a termination settlement to be paid the Contractor. If the Contractor has any property in his possession belonging to the CTA, the Contractor will account for same, and dispose of it in the manner the CTA directs.

COMPLIANCE WITH LAWS, REGULATIONS AND CODES

If any part of this Specification shall be at date of issue, or shall later become in non-conformity with current or future City, County, State or Federal Laws and/or Codes or Regulations, because of materials or requirements specified therein, Chicago Transit Authority shall have the right to negotiate for and accept or reject substitute materials and/or requirements.

PROMPT PAYMENT TO SUBCONTRACTORS

- A) The Contractor is required to pay all Subcontractors for all work that the Subcontractor has satisfactorily completed, no later than 7 calendar days after the Contractor has received payment from CTA. All of the Contractor's contracts with its Subcontractors must state that the Subcontractor will receive payment within 7 calendar days of the date that the Contractor has received payment from CTA.
- B) In addition, all Retainage amounts must be paid by the Contractor to the Subcontractor no later than 14 calendar days after the Subcontractor has, in the opinion of the Chief Infrastructure Officer, satisfactorily completed its portion of the Work. All of the Contractor's contracts with its Subcontractors must state that the Subcontractor will receive payment of Retainage within 14 calendar days of the date that the Subcontractor has, in the opinion of the Chief Infrastructure Officer, satisfactorily completed its portion of the Work.
- C) A delay in or postponement of payment to the Subcontractor requires good cause and prior written approval of the General Manager, Purchasing.
- D) The Contractor is required to include, in each subcontract, a clause requiring the use of appropriate arbitration mechanisms to resolve all payment disputes.
- E) CTA will not pay the Contractor for work performed unless and until the Contractor ensures that the Subcontractors have been promptly paid for the work they have performed under all previous payment requests, as evidenced by the filing with CTA of lien waivers, canceled checks (if requested), and the Contractor's sworn statement that it has complied with the prompt payment requirements. Prime Contractors must submit a prompt payment affidavit, (form to be provided by CTA) which identifies each subcontractor (both DBE and non-DBE) and the date and amount of the last payment to such subcontractor, with every payment request filed with CTA, except for the first payment request, on every contract with CTA.
- F) Failure to comply with these prompt payment requirements is a breach of the Contract which may lead to any remedies permitted under law, including, but not limited to, Contractor debarment. In addition, Contractor's failure to promptly pay its Subcontractors is subject to the provisions of 50 ILCS 505/9.

ACCESS TO RECORDS AND REPORTS

The Contractor shall permit and agree to cooperate with the authorized representatives of the CTA, including but not limited to, the CTA's auditors, who may inspect and audit all data and records of the Contractor relating to the Contractor's performance and Subcontractor contracts under this Contract from the date of this Contract through and until the expiration of five (5) years after completion of this Contract.

CTA ETHICS ORDINANCE

The Contractor must comply with the CTA's Ethics Ordinance posted on CTA's website at http://www.transitchicago.com/assets/1/procurement/ethics_code_2009.pdf, the provisions of which are hereby incorporated into this Contract. The Contractor agrees that, any Contract negotiated, entered into, or performed in violation of the Ethics Ordinance must be void as to the CTA.

OTHER AGENCIES

Other local government agencies may negotiate their own agreements with the Contractor based on other terms and conditions in this Agreement. Other such agencies will issue their own contracts directly to the Contractor. Participation by other agencies shall have no adverse effect on the CTA. The CTA will not be responsible for any obligation due from any other agency to the Contractor. The CTA will have no liability for the acts or omissions of any other agency.

OBLIGATION TO COMPLY WITH STATE AND FEDERAL LAW AND REGULATIONS AND CHANGES

The Contractor must at all times comply with all applicable IDOT, RTA and FTA regulations, policies, procedures, and directives, including without limitation those listed directly or by reference in the "Master Agreement" (Form FTA MA (18) dated October 2011 between the Authority and FTA, and any agreements between IDOT and RTA and RTA and CTA, as they may be amended or promulgated from time to time during the term of this Contract. The Contractor's failure to so comply will constitute a material.

SUSPENSION AND DEBARMENT

This Contract is a covered transaction for purposes of 49 CFR Part 29. As such, the Contractor is required to verify that none of the Contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The Contractor is required to comply with 49 CFR 29, Subpart C, and must include the requirement to comply with 49 CFR 29, Subpart C, in any lower-tier covered transaction it enters into.

WAIVER

A waiver by the CTA of a breach of any provision hereof by Contractor or CTA failure to insist on strict performance or observance by Contractor of any provision of this Contract or CTA's rights in any one or more instances, shall not constitute a waiver by CTA in any other instance.

GOVERNING LAW AND CHOICE OF FORUM

The Contractor hereby irrevocably submits to the original jurisdiction of those State or Federal courts located within the County of Cook, State of Illinois, with regard to any controversy arising out of, relating to, or in any way concerning the execution or performance of this Contract. The Contractor agrees that service of process on the Contractor may be made, at the option of the Authority, either by registered or certified mail addressed to the applicable office as provided for in this Contract, by registered or certified mail addressed to the office actually maintained by the Contractor, or by personal delivery on any officer, director, or managing or general agent of the Contractor. The Contract will be governed in accordance with the laws of the State of Illinois, without regard to choice of law principles.

CONFLICTS OF INTEREST

No Board member, officer or employee of the Authority or other unit of local government, who exercises any functions or responsibilities in connection with the carrying out of the Work or the carrying out of the Work to which this Contract pertains, may have any personal interest, direct or indirect, in this Contract or the proceeds thereof.

In accordance with 41 USC § 22, the Contractor agrees that no member of or Delegate to the Congress of the United States, or the Illinois General Assembly and no members of the Chicago Transit Board or Authority employees, may be admitted to any share or part of this Contract or to any private financial interest, profit, or benefit arising here from.

The Contractor covenants that it, its officers, directors and employees, and the officers, directors, and employees of such of its members if a joint venture, and subcontractors presently have no interest and must not acquire any interest, direct or indirect, in the Work to which this Contract pertains, which would conflict in any manner or degree with the performance of the Work hereunder. The Contractor further covenants that in the performance of this Contract, no person having any such interest must be employed by the Contractor.

The Contractor is prohibited from performing any work or services for the Authority under this contract that conflict with work or services that the Contractor performs under any other contract with the Authority. Such conflicts include, but are not limited to, design work for the Project under another contract, supervision or management for the Project under another contract, and review or audit work for the Project under another contract. The restrictions in this paragraph are applicable to all subcontractors. The Contractor has sole responsibility for compliance with this provision. Any violation of this provision is a material breach of the Contract, which is cause for termination.

WAIVER

In the event that either party elects to waive its remedies for any breach by the other party of any covenant, term or condition of this Contract, such waiver shall not limit the waiving party's remedies for any succeeding breach of that or of any other term, covenant or condition of this Contract.

REMEDIES NOT EXCLUSIVE

The rights and remedies of the CTA provided herein shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

COUNTERPARTS

This Contract may be executed in any number of counterparts. All such counterparts shall be deemed to constitute one and the same instrument, and each of said counterparts shall be deemed an original thereof.

SEVERABILITY

Whenever possible, each provision of the Contract shall be interpreted in a manner as to be effective and valid under applicable law. However, if any provision, or part of any provision, should be prohibited or invalid under applicable law, such provision, or part of such provision, shall be ineffective to the extent of such prohibition or invalidity without invalidating the remainder of such provision or the remaining provisions of the Contract.

THIRD-PARTY BENEFICIARIES

No provisions of the Contract shall in any way inure to the benefit of any third party, including the public at large, so as to constitute such person a third-party beneficiary of the Contract or of any one or more of the terms and conditions of the Contract or otherwise give rise to any cause of action in any person not a party to the Contract, except as expressly provided elsewhere in the Contract.

INDEPENDENT PARTIES

The Contractor is an independent contractor with respect to the performance of all Work hereunder, retaining control over the detail of its own operations, and the Contractor shall not be considered the agent, employee, partner, fiduciary or trustee of the CTA.

INTELLECTUAL PROPERTY INDEMNIFICATION

The Chicago Transit Authority shall advise the Contractor of any claim or impending patent suit related to this Contract against the Chicago Transit Authority and provide all information available. The Contractor shall defend any claim suit or proceeding brought against the Chicago Transit Authority based on a claim that any equipment, or any part thereof, furnished under this Contract constitutes an infringement of any patent, and the Contractor shall pay all Chicago Transit Authority damages and costs resulting therefrom, excluding incidental and consequential damages. In case said equipment, or any part thereof, is in such suit claimed to constitute infringement and use of said equipment or parts is enjoined, the Contractor shall, at its own expense and at its option, either procure for the Chicago Transit Authority the right to continue using said equipment or part, or replace same with non-infringing equipment, or modify it so it becomes non-infringing.

ASSURANCE OF COMPLIANCE WITH 49 CFR PART 26

The Contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the Authority deems appropriate.

The Contractor agrees to include this assurance in all subcontracts.

CIVIL RIGHTS REQUIREMENTS

The following requirements apply to the underlying Contract:

- 1. Nondiscrimination: In accordance with Title VI of the Civil Rights Act, as amended, 42 USC § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 USC § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 USC § 12132, and Federal transit law at 49 USC § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.
- 2. **Equal Employment Opportunity:** The following equal employment opportunity requirements apply to the underlying Contract:
 - a. Race, Color, Creed, National Origin, Sex: In accordance with Title VII of the Civil Rights Act, as amended, 42 USC § 2000e, and Federal transit laws at 49 USC § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 CFR Parts 60 et seq., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 USC § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
 - b. Age: In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 USC §§ 623 and Federal transit law at 49 USC § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
 - c. **Disabilities:** In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 USC § 12112, the Contractor agrees that it will comply with the requirements of U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 CFR Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
- 3. The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.

APPENDIX C

SPECIAL	CONDITIONS	DISADVANTAGED	BUSINESS	ENTERPRISE	(DBE	REQUIREMENTS
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SPECIAL CONDITIONS DISADVANTAGED BUSINESS ENTERPRISE COMMITMENT REQUEST FOR PROPOSALS (RFP) REQUISITION NUMBER:

I. POLICY AND TERMS

- A. The policy of the Chicago Transit Authority is to create a level playing field on which Disadvantaged Business Enterprises (DBE) as defined in United States Department of Transportation (USDOT) Regulation 49 C F.R. Part 26 can complete fairly for contracts financed in whole or in part with federal funds.
- **B.** The Authority has established the following DBE participation goal for this project:

Disadvantaged Business Enterprise Goal:

- C. The submitted RFP proposal is to include a written commitment that the proposer will comply with the DBE goal.
- **D.** The DBE participation goal shall be expressed as a percentage of the total contract price. However, in the event this is a revenue generating contract, the DBE participation goal is based on the proposer's operating expenses and not on the total anticipated revenue to be generated by the contract. The proposer may also meet the goal by showing good faith efforts to meet the goal as described in 49 C.F.R. Part 26 and as set forth in Section V below.
- **E.** The DBE participation goal shall apply to the total dollar value of this contract, inclusive of all amendments, modifications, options and change orders. The proposer agrees to make its best effort to include DBE participation in any contract modification work.
- **F.** The goal may be met, as further explained in Section IV hereof, by proposer's status as a DBE, by a joint venture with one or more DBEs, by subcontracting a portion of the work to one or more DBEs, by the purchase of materials used in the performance of the contract from one or more DBEs or by any combination of the above or through a showing of good faith efforts as defined in Section V hereof.
- **G.** All documentation of good faith efforts by a proposer **must** be included in the envelope or package containing the proposal.
- **H.** The Authority prohibits agreements between a proposer and a DBE in which the DBE promises not to provide subcontracting quotations to other proposers.

II. DEFINITIONS

- A. "Area of Specialty" means the description of the DBE's business, which has been determined by the IL UCP, to be most reflective of the DBE's claimed specialty or expertise. Credit toward the DBE participation goal for this contract shall be limited to the participation of firms performing within their Area of Specialty. The Authority reserves the right to investigate and determine active DBE participation and applicable DBE credit specifically identified for this contract prior to award.
 - a. NOTICE: The Authority does not make any representations concerning the ability of any DBE to perform work within its Area of Specialty. It is the responsibility of the proposer to determine the capability and capacity of the DBE firms to satisfactorily perform the work proposed.
- **B.** "Disadvantaged Business Enterprise" or "DBE" means a small business certified by the Illinois Unified Certification Program (IL UCP) as a business owned and controlled by socially and economically disadvantaged individuals in accordance with USDOT Regulation 49 CFR, Part 26.
- **C.** "Directory" means the Directory of Certified Disadvantaged Business Enterprises maintained and published by IL UCP and entitled the "IL UCP DBE Directory". The directory is available at the Authority's web site... Proposers are responsible for verifying the current certification status of all proposed DBE's.
- **D.** "Good Faith Efforts" means efforts to achieve a DBE contract goal as specified in 49 CFR, Part 26 and Section V hereof.
- **E.** "IL UCP" means the Illinois Unified Certification Program.
- **F.** "Joint Venture" means an association of two or more businesses to carry out a single business enterprise for profit, and for which purpose they combine their expertise, property, capital, efforts, skill and knowledge. Proposers may develop joint venture agreements as an instrument to provide participation by DBEs in contract work. A joint venture seeking to be credited for DBE participation may be formed among DBE firms or between a DBE firm and non-DBE firm.
 - a. In order to qualify for credit as a DBE, the DBE must be responsible for a distinct, clearly defined portion of the work and the DBE must share in the capital contribution, control, management, risks and profits of the joint venture commensurate with its ownership interest.
- **G.** "LIQ" means a Letter of Interest and Qualifications.
- H. "Proposal" includes the following Authority purchasing requests: Request for Proposals (RFP).
- **I.** "Proposer" includes bidders, consultants and contractors as well as proposers. The terms "Proposer," "Consultant," "Bidder" and "Contractor" may be used interchangeably in these Special Conditions.

- **J.** "Purchasing Agent" means the Authority employee who holds the position of General Manager, Purchasing, or the successor position.
- **K.** "Small Business Concern" means a small business as defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto except that a small business concern shall not include any concern or groups of concerns controlled by the same socially and economically disadvantaged individual or individuals which has annual average gross receipts in excess of \$22.41 million, or as revised from time to time, over the three (3) previous fiscal years.
- L. "Socially and Economically Disadvantaged Individuals" means any individual who is a citizen of the United States (or lawfully admitted permanent residents) and who is in the following groups, the members of which are rebuttably presumed to be socially and economically disadvantaged:
 - **1. "Black Americans"**, which includes persons having origins in any of the Black racial groups of Africa;
 - **2. "Hispanic Americans"**, which includes persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin, regardless of race;
 - **3. "Native Americans"**, which includes persons who are American Indians, Eskimos, Aleuts, or Native Hawaiians;
 - 4. "Asian-Pacific Americans", which includes persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Thailand, Malaysia, Indonesia, Vietnam, Laos, Cambodia (Kampuchea), the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific (Republic of Palau), and the Commonwealth of the Northern Marianas Islands, Macao, Fiji, Tonga, Kirbati, Jauvlu, Nauru, Federated States of Micronesia or Hong Kong; and
 - **5. "Subcontinent Asian Americans"**, which includes persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka.
 - 6. Women.
 - **7.** Any additional groups whose members are designated as socially and economically disadvantaged by the SBA, at such time as the SBA designation becomes effective.

The General Manager, DBE Program, may determine on a case-by-case basis that individuals who are not members of one of the above-listed groups are socially and economically disadvantaged.

III. JOINT VENTURES

Contractors may develop joint venture agreements. A joint venture seeking to be credited for DBE participation may be formed among DBE firms or between a DBE firm and a non-DBE firm. The General Manager, DBE Program, will evaluate the joint venture agreement submitted on behalf of

the proposed joint venture and all related documents to determine whether the DBE requirements have been satisfied. In addition, the General Manager, DBE Program, will consider the record of the joint venturers as joint venturers on other CTA contracts, if any. The decision of the General Manager, DBE Program, regarding eligibility of the joint venture shall be final.

A joint venture is eligible to receive DBE credit if, and only if, all of the following requirements are satisfied:

- 1. the DBE joint venturer(s) share in the 1) ownership, 2) control, 3)management responsibilities, 4) risks and 5) profits of the joint venture in proportion with the DBE ownership percentage; and
- 2. the DBE joint venturer(s) are responsible for a clearly defined portion of the work to be performed in proportion with the DBE ownership percentage.

NOTE: DBE/non-DBE joint venturers are creditable at any tier. Whenever a joint venture is proposed as the prime contractor, the Authority requires that each joint venturer sign the proposal submitted to the Authority.

IV. COUNTING DBE PARTICIPATION TOWARD THE CONTRACT GOAL

The inclusion of any DBE by the proposer in its proposal documents shall not conclusively establish the proposer's eligibility for full DBE credit for the firm's participation in the contract. The amount of DBE participation credit shall be based upon an analysis by the General Manager, DBE Program, of the specific duties, which will be performed by the DBE.

The proposer may count toward its DBE goal only expenditures to firms which are currently certified with the IL UCP and which perform a commercially useful function. A firm is considered to perform a commercially useful function when it is responsible for the performance of a distinct element of the work and carries out its responsibilities by actually performing, managing and supervising the work involved.

To determine whether a firm is performing a commercially useful function, the General Manager, DBE Program, will evaluate the amount of work subcontracted, industry practices and other relevant factors. The General Manager, DBE Program, reserves the right to deny or limit DBE credit to the proposer where any DBE is found to be engaged in substantial pass-through activities with others. DBE participation shall be counted toward the DBE goal in the contract as follows:

- **A.** Once a DBE is determined to be eligible in accordance with these rules, the total dollar value of the contract awarded to the DBE may be counted toward the DBE goal except as indicated below.
- **B.** A proposer may count toward its DBE goal that portion of the total dollar value of a contract with an eligible joint venture equal to the distinct, clearly defined portion of the work of the contract that the DBE performs with its own forces.

- **C.** Consistent with normal industry practices, a DBE may enter into subcontracts. If a DBE subcontracts more than thirty percent (30%) or a significantly greater portion of the work of the contract than would be expected on the basis of normal industry practices, the DBE shall be presumed not to be performing a commercially useful function. Evidence may be presented by the proposer involved to rebut this presumption.
- **D.** When a DBE subcontracts a part of the work under the contract to another firm, the value of the subcontracted work may only be counted towards the DBE goal if the DBE's subcontractor is itself a DBE. Work that a DBE subcontracts to a non-DBE firm does not count towards the DBE goal.
- E. The proposer may count one-hundred percent (100%) of its expenditures for materials and supplies required under the contract and which are obtained from a DBE manufacturer towards the DBE goal. The proposer may count sixty percent (60%) of its expenditures for material and supplies under the contract obtained from a DBE regular dealer towards its DBE goal. The terms "manufacturer" and "regular dealer" are defined in 49 C.F.R. Part 26.55(e) (1)(ii) and (2)(ii).
- **F.** The proposer may count towards its DBE goal expenditures to DBEs which are not manufacturers or regular dealers, such as fees or commissions charged for services and assistance in the procurement of essential personnel, facilities, equipment, materials or supplies and transportation charges as set forth in 49 C.F.R. Part 26. However, the General Manager, DBE Program, must determine the fee or charge to be reasonable and not excessive as compared with fees or charges customarily allowed for similar services.
- **G.** The proposer must use good business judgment when negotiating with subcontractors and take a DBE's price and capabilities into consideration. The fact that there may be some additional costs involved in finding and using DBE firms is not sufficient reason to fail to meet the DBE goal set forth in the contract, as long as such costs are reasonable.

V. GOOD FAITH EFFORTS

In order to be determined responsible, a proposer must make good faith efforts to meet the DBE participation goal set forth in the contract. The proposer must document the good faith efforts it made in that regard. Thus, the Proposal submitted to the Authority must be accompanied by written documentation prepared by the proposer evidencing all of its sufficient and reasonable good faith efforts toward fulfilling the goal. These efforts must be active steps, and ones, which could reasonably be expected to lead to sufficient DBE participation to meet the contract DBE participation goal. Mere *pro forma* efforts are not acceptable and will be rejected by the General Manager, DBE Program.

Good Faith Efforts require that the proposer consider all qualified DBEs, who express an interest in performing work under the contract. This means that the proposer cannot reject a DBE as unqualified unless the proposer has sound reasons based on a thorough investigation of the DBE's capabilities. Further, the DBE's standing within its industry, membership in specific groups, organizations or associations and political or social affiliation (for example, union vs. non-union employee status), are not legitimate causes for the rejection or non-solicitation of proposals in the

Contractor's efforts to meet the contract DBE participation goal.

The following list, which is not exclusive or exhaustive, sets forth the types of actions, which indicate good faith efforts on the part of a proposer to meet the DBE goal. The extent and type of actions required will vary depending on such things as industry practice; the time available for submitting a proposal and the type of contract involved.

- **A.** Attendance at a pre-proposal meeting, if any, scheduled by the Authority to inform DBEs of subcontracting opportunities under a given solicitation.
- **B.** Advertisement in general circulation media, trade association publications, and minority-focus media for at least twenty (20) days before proposals are due. If 20 days are not available, publication for a shorter reasonable time is acceptable.
- **C.** Written notification to capable DBEs that their interest in the contract is solicited.
- **D.** Documentation of efforts to negotiate with DBEs for specific sub-contracts including at a minimum:
 - **1.** The names, addresses, and telephone numbers of DBEs that were contacted and the date(s) of contact.
 - **2.** A description of the information provided to DBEs regarding the plans and specifications for portions of the work to be performed.
 - 3. A statement explaining why additional agreements with DBEs were not reached.
- **E.** For each DBE the proposer contacted but rejected as unqualified, the reason for the proposer's conclusion.
- **F.** Documentation of efforts made to assist the DBEs contacted that needed assistance in obtaining bonding or insurance required by the proposer or the Authority.
- **G.** Documentation of efforts to utilize the services of small business organizations, community and contractor groups to locate qualified DBEs.
- **H.** Documentation that the proposer has broken out contract work items into economically feasible units in fields where there are available DBE firms to perform the work.
- **I.** Evidence that adequate information was provided to interested DBEs about the plans, specifications and requirements of the contract, and that such information was communicated in a timely manner.
- **J.** Documentation of any efforts made to assist interested DBEs in obtaining necessary equipment, supplies, materials or related assistance or services.
- **K.** Documentation of use of DBEs on other contracts with the Authority.

VI. PROCEDURE TO DETERMINE PROPOSAL COMPLIANCE

The proposer **MUST** complete and sign Schedule D to the Contract documents and must sign Schedule C. If the proposer is a joint venture, the proposer **MUST** complete and sign Schedule B. Schedule C **MUST** be completed and signed by the DBE subcontractor(s). The Schedules **MUST** be submitted at the same time as or prior to submittal of the sealed proposal or promptly upon request from the Authority, when applicable. In addition, any documentation evidencing the proposer's good faith efforts to meet the contract DBE goal must be submitted concurrently with submission of said Schedules. Any proposers submitting proposals without completed and executed Schedules B, C & D and/or evidence of good faith efforts, if applicable will be deemed non-responsible. Proposers who have not submitted Schedules B, C and D with their proposals and who do not submit such Schedules promptly upon request from the Authority will have their proposals rejected by the Authority.

A. Letters of Certification

- A copy of each proposed DBE firm's current Letter of Certification or Re-certification from the IL UCP should be submitted with the proposal. ALL CERTIFICATIONS BY THE IL UCP MUST BE PRE-CERTIFICATIONS. This means that the DBE's certification must be issued by the IL UCP before the due date for proposals.
- 2. All Letters of Certification or Re-certification issued by the IL UCP include a statement of the DBE firm's area of specialization (see Section IV. COUNTING DBE PARTICIPATION TOWARD THE CONTRACT GOAL). The DBE firm's scope of work set forth on Schedule C must conform to its stated area of specialization. Where a DBE is proposed to perform work not covered by its area of specialization, the DBE firm must request an expansion of its area of specialization from its certifying agency in writing prior to the time set by the Authority for proposal opening. Further, the DBE's request must be agreed to by the General Manager, DBE Program, and the DBE firm must be certified prior to the **DUE DATE FOR PROPOSALS.**

B. Joint Ventures

- 1. Where the proposer proposes to include in its proposal a DBE, which is a joint venturer, the proposer must submit a fully executed copy of the joint venture agreement as well as a completed Schedule B with its proposal. The joint venture agreement must show that the DBE firm will be responsible for a clearly defined portion of the work to be performed, and that the DBE firm's capital contribution, control, management, risks and profits are commensurate with its ownership interest.
- 2. Further, the proposed joint venture agreement shall include specific details related to:
 1) contributions of capital and equipment; 2) work items to be performed by the DBE's own forces; 3) work items to be performed under the supervision of the DBE; 4) the DBE management, supervisory and operating personnel to be dedicated to the performance of the project; and 5) the authority of each joint venturer to contractually obligate the joint venture and to expend funds. Failure to submit a copy of the joint venture agreement will cause the firm to be considered by the Authority to be non-responsible.

VII. REPORTING REQUIREMENTS DURING THE TERM OF THE CONTRACT

- A. The proposer shall, within five (5) business days of contract award, or prior to any work being performed by the DBE subcontractor, execute written subcontracts or purchase orders with the DBE subcontractors included in the proposal. In the event the proposer cannot complete the agreement with one or more DBE subcontractors within this five day period, the proposer must provide a written explanation for the delay and an estimated date by which the written agreement will be completed to the General Manager, DBE Program. These written agreements shall be made available to the General Manager, DBE Program, upon request. All contracts between the proposer and its subcontractors must contain a prompt payment clause as required by the Local Government Prompt Payment Act, 50 ILCS 505/9. (See section X.C. hereof.)
- **B.** During the term of annual contracts, the Contractor must utilize the "Chicago Transit Authority's Disadvantaged Business Enterprise System (B2GNOW)" https://cta.dbesystem.com/ which provides the Contractor an easy to use web-based service for reporting payments rendered to all Subcontractors. The frequency with which these reporting will vary based on each individual contract, but in no event will reporting be required less frequently than quarterly. **Failure to follow these directions may delay payment.**
- C. In the case of a one-time procurement with either a single or multiple deliveries, the contractor must utilize the "Chicago Transit Authority's Disadvantaged Business Enterprise System (B2GNOW)" https://cta.dbesystem.com/ which provides the Contractor with an easy to use web-based service for reporting payments rendered to all Subcontractors. The required entries on B2GNOW must be completed prior to or concurrently with the Contractor's submittal of its final invoice to the Authority user department identified in the contract. PLEASE NOTE: Two different processes must be followed.
 (1)The original invoices must be submitted directly to the Authority department identified in the contract and (2) a report of Subcontract Payments must be entered onto B2GNOW. Failure to follow these directions may delay final payment.

The address for the General Manager, DBE Program, is: CTA DBE-General Manager, Diversity Department, 567 W. Lake Street, Chicago, IL 60661-1465.

VIII. DBE SUBSTITUTIONS

A. Arbitrary changes by the proposer of the commitments previously indicated in **Schedule D** are prohibited. No changes may be made by the proposer to the DBE firms listed on Schedule D after the opening of proposals but prior to contract award without prior approval of the General Manager, DBE Programs. Moreover, in the event the Purchasing Agent, after consulting with the DBE Department, determines that a critical DBE subcontractor is non-responsible, the Authority may require that proposer replace the non-responsible DBE subcontractor prior to contract award. In that event, proposer must replace the non-responsible DBE subcontractor with a responsible, certified DBE subcontractor or show adequate good faith efforts as set forth Section V hereof, must submit all information required in subsection C.5 hereof, and must receive the prior written approval of the General Manager, DBE Program for such substitution.

- **B.** Further, after entering into each approved DBE subcontract, the Contractor shall neither terminate the subcontract for convenience, nor reduce the scope of the work to be performed by the DBE, nor decrease the price to the DBE, without receiving prior written approval of the General Manager, DBE Program. Such approval is required even if the DBE agrees with the change to the DBE's contract desired by the Contractor.
- **C.** It may become necessary, at times, to substitute a new subcontractor in order to complete the contract work. The substitution procedure to be followed is:
 - 1. The Contractor must immediately notify the General Manager, DBE Program, in writing, of the proposed substitution of subcontractor. The Contractor's notification must include the specific reasons it intends to reduce the scope of or terminate a DBE subcontract; adequate documentation to support the Contractor's proposed action; and a proposed substitute firm to complete the DBE's portion of work.
 - 2. The following is a non-exclusive list of the types of reasons, which justify substitution: the DBE was found not to be able to perform, or not to be able to perform on time; the DBE's work product was not acceptable; the DBE demands an unreasonable escalation of its price.
 - 3. The following is a non-exclusive list of the types of reasons which do not justify substitution: a replacement firm has been recruited by the Contractor to perform the same work under more advantageous terms; performance issues by the DBE were disputed and every reasonable effort to have the dispute resolved or mediated has not been taken; the DBE has requested a reasonable price escalation which may be justified due to unforeseen circumstances (e.g., a change in scope of DBE's work).
 - 4. If the subcontractor to be substituted for the DBE is not a DBE, the Contractor must show adequate good faith efforts as set forth in Section V hereof.
 - 5. The Contractor's request for approval of a substitution must include the name, address, and principal official of the proposed substitute subcontractor and the dollar value and scope of work of the proposed subcontract. If the new subcontractor is a DBE, all DBE affidavits and documents required by **Schedule C** shall be attached.
 - 6. The Authority will evaluate the submitted documentation and respond within fifteen (15) business days to the request for approval of a substitution. The Authority's response may approve the request, seek more information, and request an interview to clarify the problem or reject the proposed DBE substitution, with the reasons for the rejection stated in the Authority's response. In the case of an expressed emergency need to receive the necessary decision for the sake of job progress, the Authority will respond as soon as practicable.
 - 7. Actual substitution by the Contractor may not be made prior to the Authority's approval. Once notified of the Authority's approval, the substitute subcontract must be executed within five (5) business days, and a copy submitted to the General Manager, DBE Program.

D. The Authority will not approve extra payment for escalated costs incurred by the Contractor when a substitution of subcontractors becomes necessary in order to comply with the DBE requirements of the contract.

IX. NON-COMPLIANCE

- A. Failure to comply with the DBE requirements of the contract or failure to use DBEs as stated in the proposal constitutes a material breach of contract. The General Manager, DBE Program, shall have the discretion to recommend to the Authority's Purchasing Agent that the Purchasing Agent apply suitable sanctions to the Contractor if the Contractor is found to be in non-compliance with the DBE requirements. Such sanctions include, but are not limited to, withholding payment to the Contractor until corrective action is taken; suspension and/or termination of the contract, in whole or in part; and debarring or suspending the Contractor from entering into future contracts with the Authority.
- **B.** The failure by the Contractor to use a DBE subcontractor to the extent the Contractor committed to use said DBE gives the underutilized DBE subcontractor specific contract remedies, including the right to damages, the right to resolve the dispute by binding arbitration before an independent arbitrator and the right to recover its reasonable expenses, including attorneys' fees, if the DBE is the prevailing party, as follows:
 - 1. <u>Damages.</u> In the event the Contractor has not complied with the contractual DBE percentage and the change to the contractual DBE usage has not been approved by the Authority, an affected DBE may recover from the Contractor damages suffered by said DBE as a result of being underutilized. This provision is intended for the benefit of any DBE affected by underutilization and grants such entity third party beneficiary rights. Any rights conferred by this provision are non-waivable and take precedence over any conflicting provisions in the agreement between the Contractor and the DBE.
 - 2. <u>Arbitration procedures.</u> If requested by the DBE, the DBE shall have the right to initiate binding arbitration of any dispute concerning damages suffered as a result of being underutilized. A DBE desiring to arbitrate must notify the Contractor in writing to initiate the arbitration process. Unless the affected parties agree to a different schedule in writing, within ten (10) days of receipt by the Contractor of the intent to arbitrate from the DBE, the above-described disputes must be arbitrated in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("AAA"), a not-for-profit agency, with an office at 225 North Michigan Avenue, Suite 2527, Chicago, Illinois 60601-7601. All such arbitrations must be initiated by the DBE filing a demand for arbitration with the AAA; must be conducted by the AAA; and must be held in Chicago, Illinois.
 - 3. <u>Fees.</u> All fees of the arbitrator are the initial responsibility of the DBE; provided, however, that the arbitrator is authorized to award reasonable expenses, including attorneys' and arbitrator fees, as damages to a prevailing DBE.

- 4. <u>Entry of judgment.</u> Judgment upon the award rendered by the arbitrator may be entered in any court of competent jurisdiction.
- E. If the Contractor does not pay any subcontractor or material supplier listed on a pay request, or if a subcontractor or material supplier does not pay any lower tier subcontractor or supplier, within the 15 day time limit set forth in the Local Government Prompt Payment Act, 50 ILCS 5055/9 ("Prompt Payment Act"), the Contractor must pay the subcontractor/material supplier an additional amount for interest at the rate of two percent (2%) per month (or, the amount provided in the Prompt Payment Act, as amended) on the outstanding balance, for each month, prorated per diem for any partial month, that the Contractor fails or refuses to pay the subcontractor/supplier. Provided that, in the event the Contractor receives less than full payment from the Authority and/or the Contractor has rejected the subcontractor/supplier's work or materials, the Contractor's obligations to make payment are limited by the provisions of the Prompt Payment Act. All agreements between the Contractor and its subcontractors/supplier and with lower tier subcontractors/suppliers must provide for payment and interest as set forth herein.
- **F.** The Contractor agrees to include the following assurance in all of its subcontracts: "The Contractor and subcontractor shall comply with the requirements of the Illinois Human Rights Act (775 ILCS 5/1-100, et seq.) and the Illinois Public Works Employment Discrimination Act (775 ILCS 5/10/0.01, et seq) and shall refrain from unlawful discrimination under Illinois law in the performance of this contract. The failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Authority deems appropriate."
- **G.** In addition, federal and state laws apply to false representations, deception and fraud:
 - 1. Illinois Law. Under Illinois law, it is a Class 2 felony to make certain false representations as to the status of a person or entity in obtaining a governmental contract. In addition, any person convicted of this felony offense must pay to the governmental unit that issued the contract a penalty equal to one and a half times the amount of the contract. 720 ILCS 5/17-29.
 - Federal Law. False, fraudulent, or deceitful statements made in connection with DBE participation in federal Department of Transportation assisted programs could also result in liability under 49 CFR Part 31, Program Fraud and Civil Remedies and possible prosecution under 18 U.S.C. 1001.

X. RECORD KEEPING

The Contractor shall maintain records of all relevant data with respect to the utilization of DBEs and shall retain these records for a period of at least three (3) years after final acceptance of the work. Full access to said records shall be granted to the Authority and its Inspector General, its Federal and/or State funding agencies, the U.S. Department of Justice, the USDOT and any duly authorized representatives thereof. In addition, the Contractor shall, at all times, cooperate with the Authority's Inspector General.

The Proposer must also create a bidders list, consisting of information about all subcontractors that submitted a proposal or a quote. The bidders list must include the name, address, DBE/non-DBE status, age of firm and the appropriate range of annual gross receipts. The form for the bidders list suggested by the Authority can be found in the DBE forms section of the IFB documents. Failure to submit this information will result in the firm being deemed non-responsible for the contract.

XI. MINORITY FINANCIAL INSTITUTIONS

The proposer is encouraged to utilize financial institutions owned and controlled by socially and economically disadvantaged individuals. Use of such institutions may be considered by the Authority as evidence of proposer's willingness to do business with DBEs. Information about such institutions is available in the Authority's DBE Program Directory, which is available on-line at http://www.federalreserve.gov/releases/mob/current/default.htm.

DBE Assistance Agencies

The following agencies are available to prospective bidders for assistance.

Alliance of B	Business Lead	ers & Entre	preneurs
(ABLE)			

150 N. Michigan Ave., Suite 2800

Chicago, IL 60601 Contact: Donna Gaines Phone: (312) 624-7733 Fax: (312) 275-7841

Email: dgaines@ablechicago.com Website: www.ablechicago.com

Services

Business Development

Chatham Business Association (CBA)

8441 S. Cottage Grove Ave.

Chicago, IL 60619 Contact: Melinda Kelly Phone: (773) 994-5006 Fax: (773) 994-9871

Email: melkelcba@sbcglobal.net Website: www.cbaworks.org

Services

 Business Development Certification Assistance Technical Assistance

Chicago Urban League (CUL)

4510 S. Michigan Ave. Chicago, IL 60653 Contact: Kenya Spann Phone: (773) 285-5800 Fax: (773) 285-7772

Email: kspann@thechicagourbanleague.org Website: www.thechicagourbanleague.org

Services

Business Development

Hispanic-American Construction Industry Association (HACIA)

901 West Jackson Blvd., Suite 205

Chicago, IL 60607 Contact: Jorge Perez

Phone: (312) 666-5910 ext. 22

Fax: (312) 666-5692

Email: jperez@haciaworks.org Website: www.haciaworks.org

Services

 Business Development Certification Assistance

Technical Assistance

Black Contractor United (BCU)

400 W. 76th St., Suite 200

Chicago, IL 60620

Contact: Belinda Henderson Phone: (773) 483-4000 Fax: (773) 483-4150 Email: belinda bcu@att.net

Website: www.blackcontractorsunited.com

Services

Business Development

Chicago Minority Business Development Council, Inc. (CMBDC)

105 W. Adams Chicago, IL 60603

Contact: Shelia C. Hill Morgan Phone: (312) 755-8880 Fax: (312) 755-8890

Email: shillmorgan@chicagomsdc.org

Website: www.cmbdc.org

Services

Business Development Certification Assistance

Technical Assistance

Federation of Women Contractors (FWC)

5650 S. Archer Ave. Chicago, IL 60638 Contact: Joan Anderse Phone: (312) 360-1122 Fax: (312) 360-0239

Email: joan@andersenpump.com Website: www.fwcchicago.com

Services

Business Development

Illinois Hispanic Chamber of Commerce (IHCC)

855 W. Adams, Suite 100 Chicago, IL 60607 Contact: Omar Duque Phone: (312) 425-9500 Fax: (312) 425-9510

Email: oduque@hccbusiness.net Website: www.ihccbusiness.net

Services

 Business Development Certification Assistance Technical Assistance

DBE Assistance Agencies (Continued)

Latin American Chamber of Commerce (LACC)

3512 W. Fullerton Avenue

Chicago, IL 60647

Contact: D. Lorenzo Padron Phone: (773) 252-5211 Cellular: (847) 894-5722 Fax: (773) 252-7065

Email:

<u>D.LorenzoPadron@latinamericanchamberofcommerce.com</u> Website: www.latinamericanchamberofcommerce.com

Services

(WBDC)

Business DevelopmentCertification Assistance

Technical Assistance Women's Business Development Center

8 S. Michigan Ave., 4th Floor

Chicago, IL 60603 Contact: Freida Curry Phone: (312) 853-3477 Fax: (312) 853-0145 Email: fcurry@wbdc.org Website: www.wbdc.org

Services

Business DevelopmentCertification AssistanceTechnical Assistance

Philippine American Chamber of Commerce of Greater Chicago (PACCGC)

3413 N. Milwaukee Ave. Chicago, IL 60641 Contact: James Villar Phone: (773) 545-4330 Fax: (773) 545-4373

Email: jamesvillar@paccgc.org
Website: www.paccgc.org

Services

Business DevelopmentCertification AssistanceTechnical Assistance

Project information and current DBE directory of certified local and out-of-state companies are available.

Chicago Transit Authority **Project Information** c/o

Marina Popovic

Purchasing Department

567 W. Lake St.

Chicago, IL 60661-1465 Phone: (312) 681-2420 Fax: (312) 681-2405

E-mail: djohnson@transitchicago.com

Chicago Transit Authority

DBE Directory

c/o Omar A. Brown

Diversity Programs Department

567 W. Lake St.

Chicago, IL 60661-1465 Phone: (312) 681-2600 Fax: (312) 681-2605

E-mail: obrown@transitchicago.com

This Schedule B need not be submitted if all joint venturers are DBEs. In such a case, however, the written joint venture agreement and a copy of the current IL UCP Letter of Certification for each DBE must be submitted.

ALL INFORMATION REQUESTED BY THIS SCHEDULE MUST BE ANSWERED IN THE SPACES PROVIDED BY JOINT VENTURERS AT ANY TIER. ADDITIONAL SHEETS MAY BE ATTACHED.

I.	Name of joint venture:
	Address of joint venture:
	Phone number of joint venture:
II.	Identify each non-DBE venturer(s):
	Name of Firm:
	Address:
	Phone:
	Contact person for matters concerning DBE compliance:
III.	Identify each DBE venturer(s):
	Name of Firm:
	Address:
	Phone:
	Contact person for matters concerning DBE compliance:
V.	Attach a copy of the joint venture agreement. In order to demonstrate the DBE venturer's share in the ownership, control management responsibilities, risks and profits of the joint venture, the proposed joint venture agreement must include specific details related to: (1) the contributions of capital and equipment; (2) work items to be performed by the DBE's own forces, (3) work items to be performed under the supervision of the DBE venturer; and (4) the commitment of management, supervisory and operative personnel employed by the DBE to be dedicated to the performance of the project.
VI.	Attach a copy of the current IL UCP Letter of Certification for each DBE joint venturer.
VII.	Ownership of the Joint Venture:
	A. What is the percentage(s) of DBE ownership in the joint venture?
	DBE ownership percentage(s):
	Non-DBE ownership percentage(s):

Ow	ners	hip of the Joint Venture (continued):
B.		ecify DBE/non-DBE percentages for each of the following (provide narrative descriptions and other ail as applicable):
	1.	Sharing of profit and loss:
	2.	Capital contributions:
		(a) Dollar amounts of initial contribution:
		(b) Dollar amounts of anticipated on-going contributions:
	3.	Contributions of equipment (specify types, quality and quantities of equipment to be provided by each venturer):
	4.	Other applicable ownership interests, including ownership options or other agreements, which restrict or limit ownership and/or control:
	5.	Provide copies of all written agreements between venturers concerning this project.
	6.	Identify each current Chicago Transit Authority contract and each contract completed during the past two (2) years by either of the joint venture partners participating in this joint venture:
will	be, r	of and Participation in the Joint Venture. Identify by name and firm those individuals who are, or responsible for and have the authority to engage in the following management functions and policy is. (Indicate any limitations to their authority such as dollar limits and co-signatory requirements.):
A.	Joir	nt venture check signing:
B.	Aut	hority to enter contracts on behalf of the joint venture:

C.	Sig	gning, co-signing and/or collateralizing loans:		
D.	Aco	quisition of lines of credit:		
E.	Acc	quisition and indemnification of payment and performance bonds:		
F.	Ne	gotiating and signing labor agreements:		
G.	Ма	nagement of contract performance. (Identify by name and firm only):		
	Supervision of field operations:			
	0	Maior annah anna		
	2.	Major purchases:		
	3.	Estimating:		
	4.	Engineering:		
Fin	anci	al Controls of Joint Venture:		
	A.	Which firm and/or individual will be responsible for keeping the books of account?		
	В.	Identify the "managing partner," if any, and describe the means and measure of their compensation:		
	C.	What authority does each venturer have to commit or obligate the other to insurance and bonding companies, financing institutions, suppliers, subcontractors, and/or other parties participating in the performance of this contract or the work of this project?		
				

IX.

	Trade	Non-DBE Firm (number)	DBE (number)	Joint Ventur (number)
	Professional			
	Administrative/Clerical			
	Unskilled Labor			
lf a	any personnel proposed for this	project will be employees of the	joint venture:	
A.	Are any proposed joint ventur	e employees currently employed	by either venturer?	
	Employed by non-DBE (numb	er):	Employed by	y DBE:
В.	Identify by name and firm the	individual who will be responsible	e for joint venture hir	ing:
	ease state any material facts and nture.	d additional information pertinent	to the control and s	tructure of this joi

NOTE:

The undersigned affirm that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operations of our joint venture and the intended participation of each venturer in the undertaking. Further, the undersigned covenant and agree, under which work is done for CTA by the venturers. to provide to CTA current, complete and accurate information regarding actual joint venture work and the payment therefor, and any proposed changes to any provision of the joint venture, or those of each venturer relevant to the joint venture by authorized representatives of CTA, its Inspector General or any of its funding agencies.

Any misrepresentation regarding the status of a person or an entity in order to qualify for DBE status may result in conviction for a Class 2 felony, including a penalty for one and a half times the value of the contract. Material misrepresentation on any matter will also be grounds for terminating any contract which may be awarded, and for initiating action under federal or state laws concerning false statements.

If, after filing this Schedule B and before the completion of the joint venture's work on the project,

	ny change in the information subn Iram directly in writing or through actor			
Substituti				
Name	DDE Data as Firms			
Name of	DBE Partner Firm	Name of No	on-DBE Partner Firm	
Sign	ature of Affiant	Signa	ature of Affiant	
Name and Title of Affiant (Type or Print)		Name and Title of Affiant (Type or Print)		
	Date			
	Date		Date	
On this	day of	, 20	_, the above-signed Officers o	
	(Name of A	Joint Venture)		
	me as the persons described in the capacity therein stated and			
IN WITNESS OF, I h	ereunto set my hand and offic	ial seal.		
		Signature of Notar	y Public	
My Commission Ex	pires:			
		SEAL		

Schedule C:

LETTER OF INTENT FROM DBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Bidder's or Proposer's failure to submit both pages of this form with its bid will result in the bid being rejected in its entirety

	Name of Project/Contra	ct:	
	Requisition No.:		
	Job Order No.:		
From:			
(Name of DBE Firm)			
To:(Name of Prime Contractor)	and the Chicago Tran	sit Authority	
(Name of Prime Contractor)			
The DBE status of the undersigned is cordated (If proposing to pe	erform as a DBE/non-DBE Jo	oint Venture, the Letter of Certification	
The undersigned is prepared to provide the goods in connection with the above name		ces or supply the following described	
Description/Type of Work (In Detail)	Quantity/Unit Price	Dollar Amount of DBE Contract	
	_		
	_		
	Sub (or Grand	l) Total: \$	
Multi-Phase Project(s). For those project		PECIFY ANNUALLY or TOTAL VALUE ase indicate the phase in which the	
DBF will be performing work:			

Schedule C: LETTER OF INTENT FROM DBE

Sub-Contracting Levels % of the dollar amount of the DBE's subcontract will be sublet to non-DBE contractors. % of the dollar amount of the DBE's subcontract will be sublet to DBE contractors. NOTICE: IF THE DBE WILL NOT BE SUB-SUBCONTRACTING ANY OF THE WORK DESCRIBED IN THIS SCHEDULE, A ZERO (0) MUST BE SHOWN IN EACH BLANK ABOVE. NOTICE: IF ANY DOLLAR AMOUNT OF THE DBE'S SCOPE OF WORK WILL BE SUBLET, A BRIEF EXPLANATION AND DESCRIPTION OF THE WORK TO BE SUBLET MUST BE ATTACHED TO THIS SCHEDULE. NOTICE: Any misrepresentation regarding the status of a person or an entity in order to qualify for DBE status may result in conviction for a Class 2 felony, including a penalty for one and a half times the value of the contract. Material misrepresentation on any matter will also be grounds for terminating any contract which may be awarded, and for initiating action under federal or state laws concerning false statements. The undersigned will enter into a formal written agreement for the above work with you as Prime Contractor. conditioned upon your execution of a contract with the Chicago Transit Authority, and will do so within (5) five calendar days of your receipt of a signed contract from the Chicago Transit Authority. (Signature of Owner, President or Authorized Agent of DBE) Name/Title (Print) Date Phone If proposing to perform as a DBE/non-DBE Joint Venture: (Signature of Owner, President or Authorized Agent of non-DBE) Name/Title (Print) Date Phone _____, 20____, the above-signed Officer On this day of (Name of DBE company) personally known to me as the persons described in the foregoing Affidavit, acknowledged that h/she executed the same in the capacity therein stated and for the purpose therein contained. IN WITNESS OF, I hereunto set my hand and official seal. Signature of Notary Public

SEAL

Diversity Department/DBE Schedules B, C, and D (Rev. 4.24.12)

My Commission Expires:

Schedule D: DBE UTILIZATION PLAN

Bidder's or Proposer's failure to submit both pages of this form with its bid will result in the bid being rejected in its entirety

	Name of Project/Contract:
	Requisition No.:
	Job Order No.:
State of	<u>_</u>
County (City) of	<u></u>
In connection with the above captioned cor	ntract, I HEREBY DECLARE AND AFFIRM that I am the
(Title of Affiant)	and duly authorized representative of
(Name	of Prime Contractor)
Disadvantaged Business Enterprises (DBE	terial and facts set forth in and submitted with the attached) Schedules for each DBE. Listed below is/are the agreement(s) mitted by each DBE and listed separately for each DBE act:
DBE Firm(s) Description/Ty	pe of Work (In Detail) Dollar Amount of DBE Contract

Total Dollar Amount for All DBE Contracts Listed Above: \$______SPECIFY ANNUALLY or TOTAL VALUE

Schedule D: AFFIDAVIT OF PRIME CONTRACTOR

I hereby acknowledge that I have been advised of the following: Any misrepresentation regarding the status of a person or an entity in order to qualify for DBE status may result in conviction for a Class 2 felony, including a penalty for one and a half times the value of the contract. Material misrepresentation on any matter will also be grounds for terminating any contract which may be awarded, and for initiating action under federal or state laws concerning false statements.

To the best of my knowledge, information and belief, the facts and representations contained in the aforementioned attached Schedules are true and no material facts have been omitted.

The undersigned will enter into formal agreements with all listed DBE firms for work as indicated by this Schedule D and accompanying Schedules, and will enter into such agreements within five (5) calendar days after receipt of the contract executed by the Chicago Transit Authority. In the event the Prime Contractor cannot meet said five (5) day schedule, it must provide a written explanation for the delay and an estimate date by which the written agreement will be completed.

The Prime Contractor designated the following person as their DBE Liaison Officer:

	(Name - Please Print or Type)	(Phone)
		hat the contents of the foregoing document are Prime Contractor to make this affidavit.
		(Name of Prime Contractor – Print or Type)
		(Signature)
		(Name and Title of Affiant – Print or Type)
		(Date)
On this	day of	. 20 . the
(Tit	le of Affiant)	(Name of Company)
	me as the person described in the for n the capacity therein stated and for the	regoing Affidavit, acknowledged that he/she ne purpose therein contained.
IN WITNESS OF, I h	ereunto set my hand and official se	eal.
		Signature of Notary Public
My Commission Exp	ires:	

SEAL

NAME OF PRIME BIDDER

BIDDERS LIST

BID NO.	
	DATE:
JOB ORDER NO	BID DUE DATE:
BUS. PHONE NO.	ADDRESS:
CITY:	STATE:
CONTACT PERSON:	
As the prime bidder, listed below is the informathat is requested by the Authority.	tion about (Name of Firm)
quote as a subcontractor. Furthermore, included their own. Under gross receipt column list range	s who responded to a solicitation by submitting a bid or d on the list are all firms who submitted a bid or quote on e using the following: Under \$500,000, \$500,000- 0-\$2,500,000, \$2,500,000-\$3,000,000, \$3,000,000-00,000.

FIRM NAME	FIRM ADDRESS	DBE OR NON-DBE	AGE OF FIRM	GROSS RECEIPT RANGE

GUIDANCE CONCERNING GOOD FAITH EFFORTS (49 CFR – 26.53)

In order to be responsive, a bidder must make good faith efforts to meet the DBE participation goal set forth in the contract. The bidder must document the good faith efforts it made in that regard. Thus, the Bid submitted to the Authority must be accompanied by written documentation prepared by the bidder evidencing all of its sufficient and reasonable good faith efforts toward fulfilling the goal. These efforts must be active steps, and ones, which could reasonably be expected to lead to sufficient DBE participation to meet the contract DBE participation goal. Mere pro forma efforts are not acceptable and will be rejected by the General Manager, DBE Program. Good Faith Efforts require that the bidder consider all qualified DBEs, who express an interest in performing work under the contract. This means that the bidder cannot reject a DBE as unqualified unless the bidder has sound reasons based on a thorough investigation of the DBE's capabilities. Further, the DBE's standing within its industry, membership in specific groups, organizations or associations and political or social affiliation (for example, union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the contract DBE participation goal. The following list, which is not exclusive or exhaustive, sets forth the types of actions, which indicate good faith efforts on the part of a bidder to meet the DBE goal. The extent and type of actions required will vary depending on such things as industry practice; the time available for submitting a bid and the type of contract involved.

- O Attendance at a pre-bid meeting, if any, scheduled by the Authority to inform DBEs of subcontracting opportunities under a given solicitation.
- O Advertisement in general circulation media, trade association publications, and minority-focus media for at least twenty (20) days before bids are due. If 20 days are not available, publication for a shorter reasonable time is acceptable.
- O Written notification to capable DBEs that their interest in the contract is solicited.
- O Documentation of efforts to negotiate with DBEs for specific sub-contracts including at a minimum:
 - The names, addresses, and telephone numbers of DBEs that were contacted and the date(s) of contact.
 - A description of the information provided to DBEs regarding the plans and specifications for portions of the work to be performed.
 - A statement explaining why additional agreements with DBEs were not reached.
- O For each DBE the bidder contacted but rejected as unqualified, the reason for the bidder's conclusion.
- O Documentation of efforts made to assist the DBEs contacted that needed assistance in obtaining bonding or insurance required by the bidder or the Authority.
- O Documentation of efforts to utilize the services of small business organizations, community and contractor groups to locate qualified DBEs.
- O Documentation that the bidder has broken out contract work items into economically feasible units in fields where there are available DBE firms to perform the work.
- O Evidence that adequate information was provided to interested DBEs about the plans, specifications and requirements of the contract, and that such information was communicated in a timely manner.
- O Documentation of any efforts made to assist interested DBEs in obtaining necessary equipment, supplies, materials or related assistance or services.

APPENDIX D

BILLS OF MATERIAL

Bidders may propose the use of items that are not currently approved by the CTA but must obtain approval from Technical Services- Rail for all such items prior to use in the "Overhaul" of the 100 2600 Series Rail Cars. If any item is disapproved by Technical Services- Rail, Contractor is required to use one of the currently approved parts for such work. Contractor is required to identify each item they intend on using during the "Overhaul". Items shall be in accordance with the tables as follows:

•	Truck Overhaul Kit	R-BOM-002
•	Master Controller Overhaul Kit	R-BOM-010
•	CAM Group Overhaul Kit	R-BOM-020
•	Cams,Plates,Gears,Spacers Kit	R-BOM-030
•	Traction Motor Kit	R-BOM-040
•	A/C Unit Overhaul Kit	R-BOM-050
•	Control Group Contactors Kit	R-BOM-060
•	Door Relays and Switches Kit	R-BOM-070
•	HPCU Rebuild Kit	R-BOM-080
•	Mixed Items Material List	

	R-BOM-002 - 1	RACK BRAKE SUSPENS	SION			
DESCRIPTION		APPROVED VENDORS		LOT NO.	UOM	QTY. PER KIT
HOUSING: SPRING	R-3-1167 (CTA)			4183062	PC	16
SPRING: COMPRESSION	4658113 (ICS)	393162 (KNORR)	12871 (TECTRAN)	4183066	PC	16
NUT: LOCKING, 2-1/4"-11, BRITISH PIPE						
THREAD, 1018 STEEL				4183064	PC	16
BUSHING: FLANGE	R-2-680 (CTA)	4658110 (ICS)	G05052/1 (KNORR)	4183063	PC	16
PREVAILING TORQUE NYLON TOP	` '	ì	,			
INSERT, PER IFI 100/107, ZINC						
ELECTROPLATED				1116363	PC	32
NUT: TRACK BRAKE	R-1-1184 (CTA)			4181233	PC	16
PADI SPACER, 2-1/2" OD, 1-1/4" ID, 3/4"	1 1 1 1 1 1 1 1 1 1 1 1 1					
THK. RUBBER	HL1999 (HILINE)	BAB-R11113 (SOUTHHAV)		4162000	PC	16
CUSHION: SUSPENSION, 90 A	TIE 1999 (TIIEITVE)	BAB KITTIO (CCCTIIII/A)		+102000	10	- 10
POLYURETHANE	4662201 (ICS)	BAB-1517 (SOHVRB)	3187 (CORTINGA)	4187154	PC	16
ROD: SUSPENSION, 5/8"-11 UNC-2A x14-	4002201 (100)	BAB 1017 (COTTVIND)	0107 (0011111071)	7107107	10	10
3/4", 1144 STRESS PROOF ASTM A-311						
GRADE BZINC COATED	R-2-1244 (CTA)	4657656 (ICS)	SR60B (CONCORD)	4182609	PC	16
WASER: SELF-ALIGNING, SPHERICAL,	R-2-1244 (CTA)	4037030 (ICS)	SKOOB (CONCORD)	4102009	FC	10
	4446 (JEDONOM)			4400000	D0	20
EQUALIZING, 2-PIECE SET	4116 (JERGNSM)			4182606	PC	32
WASHER: FLAT, 1-1/2" +/- 1/32" ID X 2-1/2"	DOLVEEN COACA CAIO					
+/- 1/32" OD X 1/64" THK., NYLON SPECIAL,	POLYPENCO101-2-1/2	IDD 4500 (DI U(1000)				
POLYPENCO 101	(POLYMER)	JPR-4586 (RUKLICSC)		4182622	PC	32
HUT: HEX, 5/8"-11 STEEL, HEAVY, HOT						
PRESSED, ZINC ELECTROPLATED PER						
ANSI/ASME B18.2.2				1110657	PC	32
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	R-BOM-002 - VER	FICAL MOTOR SUSPE	NSION			
DESCRIPTION		LOT NO.	UOM	QTY./KIT		
PAD: FLEXIBLE, THREADED	J-13251-15 (LORDMFG)	808321 (CHGORAWH)		4003053	PC	8
PAD: FLEXIBLE	J-13251-16 (LORDMFG)	808320 (CHGORAWH)	17602 (POWERPAR)	4003052	PC	24
PIN: RETAINING	41A237079P1 (GE)			4003055	PC	8

R-BOM-002 - HORIZONTAL MOTOR SUSPENSION												
DESCRIPTION		APPROVED VENDORS LOT NO.										
CAP: SUSPENSION, 1/4" THICK	41A232494 (GE)			4003002	PC	16						
PAD: FLEXIBLE, 2/1/2" OD	41A233752 (GE)	J-13278-3 (LORDMFG)		4003003	PC	32						
SPACER: 1-3/4" LONG	41A233735 (GE)			4003004	PC	16						
NUT: LOCK, 3/4"-10, 3B STEEL, GR. B, PREVAILING TORQUE NYLON TOP	42-NTU-120		2A41NTU1210									
INSERT, HEAVY, THIN PER IFI 100/107	(ELASSTPN)	1111715 (CONTINEN)	(AEROSTOP)	1111715	PC	8						
PIN: COTTER, 3/16" X 1-1/4" STEEL				1190241	PC	8						

	R-BOM	-002 - GEAR SUSPENSION	ON			
DESCRIPTION		APPROVED VENDORS		LOT NO.	UOM	QTY. PER KIT
SPACER: GEAR UNIT	41A231571P1 (GE)			4003047	PC	16
NUT: LOCK, HEAVY THIN HEX, 1"-8 (3B) NYLON INSERT, PREVAILING TORQUE, ZINC ELECTROPLATED, GRADE "C" OR "8", IFI 100/107		59NTU168 (GREERSMR)		4003049	PC	8
PAD: FLEXIBLE	J-6144-23A (LORDMFG)	4478093 (ICS)	41A233755P2 (GE)	4003046	PC	32

R-BOM-002 - HARDWARE

ITEM NO.	DESCRIPTION	QTY./KIT
	NUT: HEX, 3/4-10 STEEL, HEAVY, SINGLE CHAMFER, HOT PRESSED,	
1110658	ZINC ELECTROPLATED. PER ANSI/ASME B18.2.2.	32
	LOCKNUT: HEX, 10-32, 18-8 STAINLESS STEEL, STANDARD HEIGHT,	
1111032	W/NYLON LOCKING INSERT (250 DEG. F MAX. PERFORMANCE)	80
1111705	NUT: LOCK, 3/8-16-3B STEEL, PREVAILING TORQUE NYLON TOP	100
	NUT: LOCK, 3/4-10-3B STEEL, GRADE B, PREVAILING TORQUE NYLON	
	TOP INSERT TYPE, HEAVY, THIN HEIGHT. PER IFI 100/107 WITH	
	APPROPRIATE MARKINGS. (WHICH IS COMPARABLE TO GR-5 PER	
1111715	SAE J995.) ZINC ELECTROPLATED	12
	NUT: HEX, 5/16-18 MADE OF ZYTEL 101, GENERAL PURPOSE NYLON,	
	WHITE. USED TO SECURE TROLLEY BEAM ARC SHIELD TO	
1111794	FLASHBOARD	24
	NUT: LOCK, 1/4-20-3B STEEL, GRADE B, PREVAILING TORQUE NYLON	
	TOP INSERT TYPE. PER IFI 100/107 W/APPROPRIATE MARKINGS.	
	(WHICH IS COMPARABLE TO GR-5 PER SAE J995). ZINC	
1111958	ELECTROPLATED	32
	NUT: LOCK, 1/2-13-3B STEEL, PREVAILING TORQUE NYLON TOP	
	INSERT TYPE. PER IFI 100/107 WITH APPROPRIATE MARKINGS. ZINC	
1116359	ELECTROPLATED	50
	NUT: LOCK, 5/8-11 STEEL, GR-B, PREVAILING TORQUE NYLON TOP	
	INSERT TYPE. PER IFI 100/107 WITH APPROPRIATE MARKINGS.	
	(WHICH IS COMPARABLE TO GR-5 PER SAE J995). ZINC	
1116363	ELECTROPLATED	64
	NUT: LOCK, 5/16-18 STEEL, PREVAILING TORQUE NYLON TOP	
	INSERT TYPE. PER IFI 100/107 WITH APPROPRIATE MARKINGS.	
1116364	ZINC ELECTROPLATED	50
	NUT: LOCK, 1-8-3B STEEL, PREVAILING TORQUE NYLON TOP INSERT	
	TYPE. PER IFI 100/107 WITH APPROPRIATE MARKINGS. ZINC	
1116369	ELECTROPLATED	8
	WASHER: FLAT, 1-1/4" SCREW, 1-3/8" ID X 2-1/2" OD X .140 THK HI-	
	STRENGTH STEEL, ZINC PLATED, FOR KONI HORIZONTAL SHOCK	
1120021	ABSORBER	4
	WASHER: FLAT, 3/8 BOLT SIZE, TYPE A, NARROW, STEEL, PER	
1120055	ANSI/ASME B18.22.1, ZINC ELECTROPLATED	125
	WASHER: FLAT, 1/2 BOLT SIZE, TYPE A, NARROW, STEEL, PER	
1120057	ANSI/ASME B18.22.1, ZINC ELECTROPLATED	70
	WASHER: FLAT, SPECIAL, 1.0625 ID X 1.750 OD X 0.1875 THICK,	
1120061	STEEL, MAT'L PER ANSI/ASME B18.22.1, ZINC ELECTROPLATED	16

	WASHER: 3/4" FLAT, SPECIAL, HARDENED, C1040/C1046 STEEL THRU	
	HARDENED TO ROCKWELL C38-45. 13/16"ID X 1-3/4"OD X 0.2" THICK,	
	ZINC MECHANICALLY DEPOSTED COATING PER ASTM B695, CLASS	
	8, TYPE I. CERTIFICATION AND PROOF OF TEST OF MATERIAL	
	COMPOSITION, ZINC COATING PROCESS AND RELIEF OF	
1120062	HYDROGEN EMBRITTLEMENT	96
	WASHER: LOCK, 3/8 BOLT SIZE STL, HELICAL SPRING TYPE, MED,	
	.657 OD X .375 ID X .094 THICK. ZINC ELECTROPLATED. PER ANSI	
1121060	B18.21.1	75
	WASHER: LOCK, 3/4 BOLT SIZE STL, HELICAL SPRING TYPE, MED,	
	1.271 OD X .75 ID X .188 THICK, ZINC ELECTROPLATED. PER ANSI	
1121066	B18.21.1	32
	WASHER: FLAT, SPECIAL, 1/2 BOLT SIZE, WROUGHT STL, 7/8 OD X	
1121170	17/32 ID X 3/32 THICK. ZINC ELECTROPLATED	48
	WASHER: FLAT, 3/8 BOLT SIZE, STEEL, 1-1/4 OD X 13/32 ID X .086	
1123021	THICK. ZINC ELECTROPLATED PER ASTM F436 HARDENED	32
1120021	SCREW: CAP, 1/4-20 X 7/8 HEX HEAD, GRADE 5, ZINC	<u> </u>
	ELECTROPLATED MATERIAL CERTIFICATION AND PROOF OF TEST	
1380148	MUST BE SUPP- J429	10
1000110	SCREW: MACHINE, 10-32 X 5/8 STAINLESS STEEL, SLOTTED	
	INDENTED HEX HEAD. AUSTENITIC TYPE, PER AISI 302. MINIMUM	
1380162	TENSILE STRENGTH 70,000 PSI	80
1000102	SCREW: CAP, 3/8-16 X 3/4 HEX HEAD, GRADE 5, ZINC	
	ELECTROPLATED MATERIAL CERTIFICATION AND PROOF OF TEST	
1380297	MUST BE SUPPLIED PER SAE J429	50
1000207	SCREW: CAP, 3/8-16 X 1 HEX HD GR-5 ZINC ELECTROPLATED.	
	MATERIAL CERTIFICATION AND PROOF OF TEST MUST BE SUPPLED	
1380299	PER SAE J429	50
1000200	SCREW: CAP, 3/8-16 X 1-1/4 HEX HEAD, GRADE 5, PER ANSI/ASME	
	B18.2.1. ZINC ELECTROPLATED, MATERIAL CERTIFICATION AND	
1380301	PROOF OF TEST MUST BE SUPPLIED PER SAE J429	50
1000001	SCREW: CAP, 3/8-16 X 1-1/2 HEX HEAD, GRADE 5, ZINC	- 00
	ELECTROPLATED. MATERIAL CERTIFICATION AND PROOF OF TEST	
1380303	MUST BE SUPPLIED PER SAE J429	50
1000000	SCREW: CAP, 3/8-16 X 1-3/4 HEX HEAD, GRADE 5, ZINC	
	ELECTROPLATED MATERIAL CERTIFICATION AND PROOF OF TEST	
1380305	MUST BE SUPPLIED PER SAE J429	50
100000	SCREW: CAP, 3/8-16 X 2-3/4 HEX HEAD, GRADE 5, ZINC	
	ELECTROPLATED MATERIAL CERTIFICATION AND PROOF OF TEST	
1380313	MUST BE SUPPLIED PER SAE J429	25
1000010	SCREW: CAP, 3/8-16 X 4-1/2 HEX HEAD GRADE 5 ZINC	
	ELECTROPLATED. MATERIAL CERTIFICATION AND PROOF OF TEST	
1380324	MUST BE SUPPLIED PER SAE J429	25
1000024	SCREW: CAP, 1/2-13 X 2-1/4 HEX HD GR-5 ZINC ELECTROPLATED.	20
	MATERIAL CERTIFICATION AND PROOF OF TEST MUST BE SUPPLIED	
1380409	PER SAE J429	24
1300403	I LIVONE 0428	۷4

	TOODEW, OAD 4/2 42 VOLIEVID OD 5 7/NO ELECTRODI ATER MATE	
1200457	SCREW: CAP, 1/2-13 X 2 HEX HD GR-5 ZINC ELECTROPLATED. MATL	40
1380457	CERT AND PROOF OF TEST MUST BE SUPPLIED PER SAE J429	16
	SCREW: CAP, 1/2-13 X 2-1/2 HEX HEAD GR-5 ZINC ELECTROPLATED	
4000404	MATERIAL CERTIFICATION AND PROOF OF TEST MUST BE SUPPLIED	00
1380461	PER SAE J429	20
	SCREW: CAP, 5/8-11 X 1-3/4 HEX HEAD, GRADE 5, ZINC	
4000540	ELECTROPLATED. MATERIAL CERTIFICATION AND PROOF OF TEST	00
1380549	MUST BE SUPPLIED PER SAE J429	32
	SCREW: CAP, 5/8-11 X 3/1/2 HEX HD GR-5 ZINC ELECTROPLATED.	
4000500	MATERIAL CERTIFICATION AND PROOF OF TEST MUST BE SUPPLIED	0.4
1380563	PER SAE J429	24
	SCREW: CAP, 5/8-11 X 4-1/2 HEX HD GR-5 ZINC ELECTROPLATED.	
4000500	MATL CERTIFICATION AND PROOF OF TEST MUST BE SUPPLIED PER	40
1380568	SAE J429	16
4004000	SCREW: CAP, 5/16-18 X 1-1/4 HEX HD NYLON, MADE FROM ZYTEL 101	0.4
1381066	GENERAL PURPOSE NYLON, WHITE	24
	SCREW: CAP, 3/8-16 X 7/8 HEX HEAD GR-5 W/NYLON PATCH SELF-	
4004000	LOCKING ELEMENT. MECH ZINC COATED PER ASTM B695 CLASS 12,	4.0
1381209	TYPE I	16
	SCREW: CAP, 1/2-13 X 2-3/4 HEX HD GR-5 NYLON PATCH, SELF-	
	LOCKING ELEMENT. ZINC LECTROPLATED MATL CERT AND PROOF	
1382035	OF TEST MUST BE SUPPLIED PER SAE J429	32
4000070	SCREW: CAP, 5/8-11 X 1-1/2 HEX HEAD GR-8 W/NYLON PATCH	
1383972	SELFLOCKING ELEMENT ZINC ELECTROPLATED	96
4007000	SCREW: CAP, 5/16-18 X 1-1/8, SOCKET HEX HEAD, PER ANSI/ASME	40
1387288	B18.3 AND ASTM A574, ALLOY STEEL, ZINC ELECTROPLATED	48
1200202	SCREW: CAP, 1/2-13 X 7/8 HEX HD GR-5 NYLON PATCH SELF LOCKING ELEMENT ZINC ELECTROPLATED	24
1389203	SCREW: CAP. 1/2-13 X 1-1/4 HEX HEAD GR-5, NYLON PATCH SELF-	24
1389204	LOCKING ELEMENT ZINC ELECTROPLATED	25
1309204	SCREW: CAP, 5/8-11 X 2-1/4 HEX HD GR-8 NYLON PATCH	23
	SELFLOCKING ELEMENT ZINC ELECTROPLATED MATL CERT AND	
1389206	PROOF OF TEST MUST BE SUPPLIED PER SAE J429	72
1309200	SCREW: CAP, 5/8-11 X 1-1/4 HEX HD GR-5 NYLON PATCH	12
	SELFLOCKING ELEMENT ZINC ELECTROPLATED MATL CERT AND	
1389214	PROOF OF TEST MUST BE SUPPLIED PER SAE J429	26
1000214	TERMINAL: KNIFE CONNECTOR, SPECIAL, CRIMP TYPE 2/0 CABLE,	20
1608022	STYLE A, 2 PIN	8
1000022	TIE: CABLE, STANDARD, SELF-LOCKING, 1/16" X 3" BUNDLE DIA. 11-	<u> </u>
3148354	1/2" APPROX. LENGTH	80
4003000	HORIZ. SUSPENSION KIT	8
100000	WASHER: 1-1/8" FLAT, USED BETWEEN NYLON WASHER AND DISC	
	SPRINGS THAT MOUNT CURRENT COLLECTOR "H" FRAME TO	
	TRUCK FRAME 1-1/4" I.D. X 2-3/4" O.D. X 11/64" THICK, STEEL, ZINC	
4003028	OR CAD. PLATED	16
4003043	GEAR UNIT KIT	8
		-

4003050	VERTICAL SUSPENSION KIT	8
	SCREW: CAP, 3/8"-16 X 7/8", HEX HEAD SPECIAL WITH CONTINUOUS	-
	5/64" HOLE THROUGH SIDE OF HEAD, CENTERED TO ACCEPT 18	
	GAGE WIRE, GR. 8, UNC 2A THREAD, CADMIUM PLATED, MARKED	
	WITH 6 RADIAL DASHES 60 DEG. APART ZINC DICHROMATE	
	ACCEPTABLE NOTE"X": INSP. CERT. MUST BE SUPPLIED FREED OF	
4003057	HYD. EMBRITTLEMENT PER ASTM STD	4
	WASHER: INSULATING, 1/4" THICK, HIGH PRESSURE LAMINATED	
	COTTON FABRIC REINFORCED PHENOLIC RESIN SHEET. MUST	
	CONFORM TO NEMA GRADE "CE", FOR USE WITH TROLLEY BEAM	
4003301	TO TRUCK FRAME BOLT. DRAW. NO: R-1-1181	64
	BOLT: HEX HEAD, 3/4"-10UNC X 7-3/4"L, STEM MODIFIED PER CTA	
	DWG. R-2-1276 LATEST REV. MUST CONFORM TO ASTM J429	
	LATEST, GR. 5, MARKED WITH 3 RADIAL DASHES 120 DEG. APART &	
	MFG. ID. MECHANICALLY DEPOSITED ZINC COATING PER ASTM	
	B695, CLASS 12, TYPE II. PROOF OF TEST OF BASE MATERIAL &	
	FREEDOM FROM HYDROGEN EMBRITTLEMENT MUST BE	
4003306	FURNISHED WITH EACH SHIPMENT. DRAW NO: . "LATEST REV"	32
4156565	SEAL: FLARETITE, FOR 3/8", 37 DEGREE JIC FLARE FITTING	18
	PLATE: MOUNTING, FOR TRACK TRIP SWITCH INSTALLATION. REF:	
4183004	BOEING PARTS LIST 3-3-2. DWG. NO: R-2-1629	2
	CAP: MOUNTING BOLT INSULATOR, FOR TROLLEY BEAM ASSEMBLY,	
	TO TRUCK FRAME INSTALLATION, USED ON 42" AND 56" TROLLEY	
	BEAMS. THE CONTRACTOR SHALL SUBMIT WITH EACH SHIPMENT,	
	CERTIFICATION OF INSPECTION/TESTING FOR COMPLIANCE TO	
4240055	SPECIFIED INSULATOR CAP MATERIAL. DRAW. NO: R-2-1271	32
	SCRAPER: SLEET, INSULATING TUBE FOR GRAVITY TYPE CURRENT	
	COLLECTOR BEAM. DWG. NO: R-4-1076, DET. 12 CURRENT	
4243086	REVISION	32
	WASHER: PLAIN TYPE B, NARROW #10 .190, CARBON STEEL,	
4303161	CADMIUM PLATED	80
5142621	CLAMP: CUSHIONED LOOP, 5/8"	15
5142622	CLAMP: CUSHIONED LOOP, 11/16"	20
5142637	CLAMP: CUSHIONED LOOP, 1/4"	20
5142676	CLAMP: CUSHIONED LOOP, 9/16" DIA	20
	SCREW: CAP, 5/16" X 18 X 1-1/2", SLOTTED HEX HEAD, GRADE 5,	
5152023	MECH. ZINC COATED, PER ASTM B695, CLASS 12, TYPE I	20
	CONTACT: FINGER, FOR TRUCK COUPLER PLUG SYSTEM	
	17MP10K2, GE CONTACT FINGER P/N 41A265467P2 SPEC. NO: 9751	
5155040	DRAW. NO: R-2-1679 REV. NO: 3	8

R-BOM-002: BOM for 2600-Series Truck Overhaul Kit - Mechanical

DESCRIPTION BOLT: STRUCTURAL, ASTM A490, 3/4"-10, 4-1/2" LONG, TYPE	LOT NUM.	Spec #'s	Drawing #	UNIT	Qty/truck	% of repl/truck	trucks/kit	% of SCOPE	QTY/KI	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUME
BOLT: STRUCTURAL, ASTM A490, 3/4 - 10, 4-1/2 LONG, TTPE 1. MATERIAL CERTIFICATION REQUIRED WITH EACH SHIPMENT TO COMPLY WITH ASTM A490.	1041518			PC	2	100	4	100	8	BBAPRO	BV75C72PA49								
OCKNUT: ASTM A194 GRADE 2H, 3/4"-10 SIZE, METAL (SPRING STEEL) INSERT. MATERIAL CERTIFICATION REQUIRED WITH EACH SHIPMENT TO COMPLY WITH ASTM																			
A194 GRADE 2H. A194 GRADE 2H. BLECTROPLATED WITH DICHROMATE DIP. MATERIAL CERTIFICATION AND PROOF OF TEST MUST BE SUPPLIED	1110082			PC	2	100	4	100	8	SECURITYL	SH515G2H								
PER SAE J429 FOR COUPLER KIT AND MOTOR MOUNTING BOLTS.	1384475	213		PC	10	100	4	100	40	*BBA PROJECT, INC.	IFC BH75C52YG8								
SCREW: CAP, 5/8-11 X 2-5/8 HEX HD GR-8 NYLON PATCH SELFLOCKING ELEMENT ZINC ELECTROPLATED MATL CERT AND PROOF OF TEST MUST BE SUPPLIED PER SAE																			
J429.	1389208		N/A	PC	4	100	4	100	16	*BBA PROJECT, INC.	BH62C42YG8NY								
CLAMP, HOSE, 11/16" TO 1.14" DIA RANGE SGREW: CAP, 516-18 X 2 STANLESS STELL HEX HEAD, PER ANSI/ASME B18.2.1 TYPE 304, CL 2, IDENTIFICATION SYMBOL B8, PER ASTM A193. MATERIAL CERTIFICATION AND PROOF OF TEST MUST BE SUPPLIED FOR ASTM F593. 100,000 MIN YIELD STRENGTH, 125,000 MIN TENSILE	1921055	-	-	PC	4	100	4	100	16	BREEZE	62012HC	FLXIBLE	97-1829-00153	GEIBINDU	5412	IDEALIND	5412		
STRENGTH.	3069505	N/A	N/A	PC PC	4	50	4	100	8	11101101100	0547070		0070000						
CLAMP, MOUNTING, ATC INSULATOR, ROLL SUPPORTING CONNECTING ROD BOLT	3072623 4000041			PC	2	100	4	100	8	INOVCMPO	3547670 1002143	WESTERNI	3072623						
PLATE: SUPPORT, FOR HYDRAULIC LINE INSTALLATION USED ON 2400, 2600 AND 3200 TRUCKS WASHER: FLAT, .510" ID X 1.250" OD X	4000279		SKR-1-080805CA	PC	2	100	4	100	8		1002110								
0.100" TH. TYPE 3, HARDENED TO 30-35RC. PER ASTM F436. ZINC COATED PER ASTM B695 CLASS 50 TYPE II. FREE	4002420	N/A	N/A	PC	8	100	4	100	32										
WASHER, 1 1/2"OD, 1"ID, 1/8"TH, THRUST	4002610	-	-	PC	8	100	4	100	32	BOMBARDI	X99-61711	BUDD	X99-61711	BUNTING	TT1502				
INSULATOR FRAME SIDE	4002669	-	-	PC	2	100	4	100	8	ICMINDUS	H3200-A	INOVCMPO	1002031						
SHIM: "H" FRAME, LATERAL STOP, 1/8" TH., FOR WEGMANN TRUCKS	4002673		R-1-1122	PC	4	65	4	100	10	DJMETAL	4002673	SONIC	8182015	ZLMACHIN	4002673				
INSULATOR: PANEL, USED ON #1 TRUCKS, TO ISOLATE TRACK TRIP SUPPORT	4002716			PC	1	100	4	100	4	INOVCMPO	1002149WH								
SCREW, CAP, 3/4: - 10 X 28 3/8" HEX HD	4003005			PC	2	100	4	100	8	DELTASCR	4003005	GE	41A238206P2	RUKLICSC	4003005				
WASHER: 0.67" ID X 1.125" OD X 0.173" THICK, SAFETY, HS 6 BELLEVILLE. REF: WEGMANN DRWG. 4.4509.04.052.007	4000044					400		400		2445222	40440		V0D 004540	W40000F4	4 4500 04 050 007		4 4770 04 077 007		
WASHER, SLIDING	4003011	-	-	PC PC	24	100	4	100	96 32	BAUERSPR ENGNRPRO	12116 4003023	NATLDISC INOVCMPO	XSP 391540 4478070	WAGGONFA MOOREADD	4.4509.04.052.007 4478070	WEGMANN	4.4509.04.052.007 4.4509.60.001.016		
ABSORBER: SHOCK VERTICAL	4003023	-	-	PC	2	100	4	100	8	KONI	96V-1244	KONI	97V-1010	SACHS	401700123549	WEGWANN	4.4303.00.001.010		
ABSORBER: SHOCK HORIZONTAL	4003061	-	-	PC	1	100	4	100	4	KONI	96H-1243	KONI	97H-1009	SACHS	401300020070	VIBRATEC	712768-001		
STOP: LONGITUDINAL, FOR CURRENT COLLECTOR BEAM SUPPORT ASSEMBLY.	4003080	N/A	R-2-1137 RV. 2	PC	4	100	4	100	16	ALLORCOR	4003080	POWERPAR	30297	WEGMANN	3.4513.60.001.021	ZLMACHIN	4003080		
USED ON WEGMANN/DUEWAY TRUCKS.	4003081	-	-	PC	4	100	4	100	16	INOVCMPO	4478128	PHOENIXN	741861	POWERPAR	18578	WEGMANN	3.4513.60.001.016		
STOP, VERTICAL UPPER SHIM: LONGITUDINAL STOP REF. CTA BULLETIN RM-12-031	4003082	#REF!	-	PC	4	100	4	100	16	INOVCMPO	4478129	PHOENIXN	741767	POWERPAR	30308	WEGMANN	4.4513.60.001.004		
WEG.AMM 4.4513.60.001.019 (REV. 01) WASHER: CONICAL SPRING TYPE, SPECIAL REQUIREMENTS (SEE CTA SPEC. 9626-07 OR LATEST). FOR NOMINAL BOLT SIZES OF 20 MM OR 3/4", USED FOR H-	4003085		R-2-1142	PC	8	100	4	100	32	ALLORCOR	Y-22282	DAYTONMF	R-2-1142	WEGMANN	4.4513.60.001.019	ZLMACHIN	4003085		
FRAME ANCHOR BOLTED JOINT. MATERIAL CERTIFICATION REQUIRED WITH EACH SHIPMENT AS SPECIFIED IN SPEC. 9626-07 OR LATEST.	4003086	9626		PC	4	100	4	100	16	BAUERSPR	SPEC - 113916	WEGMANN	4.4513.60.001.020						
WASHER: FLAT, 2 OD X 21/32 ID X 3/8 THICK, STEEL, ZINC ELECTROPLATED, PER CTA DRAWING R-2-1144, REV. 1 FOR CURRENT COLLECTOR BEAM SUPPORT ASSY.	4003087	N/A	R-2-1144	PC	4	100	4	100	16	BOWERSMF		WEGMANN	4.4513.60.001.023						
WASHER: CONICAL SPRING TYPE, SPECIAL REQUIREMENTS	4003093	9626		PC	8	30	4	100	10	WEGMANN	4.4513.53.000.006	ZLMACHIN	4093						
BUFFER, STOPPING, RUBBER	4003101	-	-	PC	2	100	4	100	8	ICS	4478148	PHOENIXN	741763	POWERPAR	30310	WEGMANN	3.4509.04.066.002		
BRACKET, MOUNTING, STOPPING BUFFER	4003102	-	-	PC	1	25	4	100	1	WEGMANN	3.4509.04.066.003								
RUBBER, BEARING	4003106	-	-	PC	2	100	4	100	8	ALERTMFG	4003106	INOVCMPO	4003106	MINORUBB	4003106	POWERPAR	4003106.00		
ROD: ASSEMBLY, CONNECTING, ROLL SUPPORT	4003109	_	_	PC	2	100	4	100	8	SIEMENS	1.4509.04.058.004	HALLIND	4003109						
SHIM: TRANSVERSE SUSPENSION,	4003123		R-3-1164	PC	4	100	4	100	16	ABILITYM	4003124	INOVCMPO	4478171						
SHIM: TRANSVERSE SUSPENSION, .149" THICK 4MM THK. IS ACCEPTABLE.	4003124	_	R-3-1164	PC	4	100	4	100	16	ABILITYM	4003124	INOVCMPO	4478171						
SPRING: DISC, FOR CURRENT COLLECTOR BEAM ASSEMBLY, WEGMANN TRUCK, SPRING MUST CONFORM TO DIN 2093 STANDARD. MATERIAL CERTIFICATION AND MANUFACTURER MARKING REQUIRED WITH EACH																			
SHIPMENT.	4003135	-	-	PC	36	100	4	100	144	BAUERSPR	60,0X30,5X3,5	NATLDISC	4003135	ROLEX	CTA4003135	WEGMAN	60X30-5X3-5		
BRACKET, MOUNTING, HYDRAULIC SYSTEM INSTALLATION, FOR WEGMANN TRUCK. SERIES 2400 & 2600. REF: B/V P.L. 3-5-51, B/V ORIGINAL P/N 335-11165-83	4003192	6803	R-3-1160	PC	1	100	4	100	4	BOEINGVR	335-11165-83	ELMHRSTM	D22-6425	INOVCMPO	4478239				
T-BULKHEAD, HYDRAULIC SYSTEM, FOR WEGMANN TRUCK ASSEMBLY. REF: BOEING VERTOL PARTS LIST 3-4-57.			·																
SOURCE: NEL : DOLINO VENTOL PARTO LIOT 344-37.	4003202	-	-	PC	111	100	4	100	4	FLOWPROD	203002-6-6S	FLOWPROD	C5725-6	WEATHRHE	C5725-6				

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R-BOM-002: BOM for 2600-Series Truck Overhaul Kit - Mechanical

						% of		% of											
DESCRIPTION	LOT NUM.	Spec #'s	Drawing #	UNIT	Qty/truck	repl/truck	trucks/kit	SCOPE	QTY/KIT	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER
NUT, HYDRAULIC SYSTEM INSTALLATION, FOR WEGMANN TRUCK ASSEMBLY. REF: BOEING VERTOL PARTS LIST 3-4- 58.	4003204	N/A	N/A	PC	1	100	4	100	4	AUTOCLUT	210212-65	WEATHRHE	C5924-6						
SPACER, PLATE, STOP	4003207	-	-	PC	4	100	4	100	16	BOEINGVR	335-11165-70	FULMER	SA-1-1104	INOVCMPO	4478254	SONIC	6225429		
BRACKET, MOUNTING, QUICK DISCONNECT	4003218	-	-	PC	2	100	4	100	8	MK	D00-185-06								
MOUNTING: FLANGE; TYPE 304 STAINLESS STEEL, TRUCK HYDRAULIC SYSTEM. WABCO PARTS LIST 6-H-7 WASHER: FLAT, 1/2 BOLT SIZE, 15/16 OD X 9/16 ID X .0890	4003225			PC	3	100	4	100	12	WABCO	674240								
THICK. SPECIAL, THRU HARDENED STEEL. ZINC MECHANICALLY DEPOSITED COATING PER ASTM B695-91, TYPE II, CLASS 50, YELLOW CHROMATE ACCEPTABLE.	4003232	_	_	PC	12	100	4	100	48	GE	41B537660P6	GEDCON	41B537660P6						
WASHER: CONICAL SPRING TYPE, SPECIAL REQUIREMENTS (SEE CTA SPEC. 9626-07 OR LATEST). FOR NOMINAL BOLT SIZES OF 12MM OR 1/2", USED FOR MOTOR	4000202		-	10	12	100		100	40	- GE	4155700010	GEDOON	41555700010						
SAFETY CATCH. MATERIAL CERTIFICATIONS REQUIRED WITH EACH SHIPMENT AS SPECIFIED IN SPEC. 9626-07 OR					_				_										
LATEST.	4003256	9626	-	PC	2	100	4	100	8	SIEMENS	A2202700	DUOTHINAL	20404400	WE014111	0.4540.04.005.000				
WASHER, SPRING, RUBBER	4003277	-	-	PC PC	8	100 50	4	100	32	INOVCMPO	4478324	PHOENIXN	86421108	WEGMANN	2.4513.04.025.006				
BELT, MOUNTING, ATC ROD, CALIPER LINK ROD	4153210 4162476	-	-	PC	2	100	4	100		INOVCMPO Ri-del	4628257 RDM4162476	MK	A01-743-05	VOSSENG	VH2010FLEX				
TUBE, HYDRAULIC LONG	4162500	-		PC	1	100	4	100	4	MK	E00-820-01								
TUBE, HYDRAULIC SHORT	4162501	_		PC	1	100	4	100	4	INOVCMPO	4637548	MK	E00-821-01						
COUPLER: FEMALE, QUICK DISCONNECT, WITH ADAPTER, TO ACCEPT 1/4 JIC 37 DEG. FLARE FEMALE	4162510			PC	2	100	4	100	8	FLOWPROD	82448	OEMSAFEW	S35-2P-6						
COUPLING, QUICK DISCONNECT. MALE	4162511	-	-	PC	2	100	4	100	8	FLOWPROD	82447	MOTIONIN	MIIL300427006	OEMSAFEW	S31-2P-6W				
HOSE, HYDRAULIC BRAKING SYSTEM HOSE: ASSEMBLY, FOR HYDRAULIC BRAKING SYSTEM.	4162606	-	-	PC	1	100	4	100	4	BUDD	B91-13584	PARKERHO	F3010606060606-28	STRATFLX	AA3702D0280DD	STRATO	\$301002		
PARKER P/N F302-06-06-4-4-4-19.25-SG-066. COMPRISES PARKER PARTS: HOSE P/N 302-4, FITTINGS P/N 10643-4-4 & SPRING GUARD P/N SG-066.	4162617	-	-	PC	2	100	4	100	8	BUDD	B99-61428	PARKRHAN	K301060640404-SG						
BUSHING, NYLON,5/8"OD, .38"ID, .406'L	4162641	-	R-3-1135	PC	2	100	4	100	8	HAMPSHIR	4162641	INOVCMPO	4637688						
NUT, LOCK, 3/8-16 GASKET: RUBBER FOR MOUNTING FLANGE, QUICK	4162643	-	-	PC	4	100	4	100	16	MCMASTER	90652A040								
DISCONNECT. REF. 3200 SEC. 6-67 ITEM 34.	4165829			PC	3	100	4	100	12	WABCO	675829								
SPOOL, INDICATOR SCREW: CAP, 1/2-13 X 6-1/2 HEX HD GR-8, PER ANSI/ASME	4172093	-	-	PC	4	100	4	100	16	BUDD	A99-62222	INOVCMPO	4647140						
B18.2.1, WITH TWO 5/64 DIAMETER DIAGONAL SAFETY WIRE HOLES CROSS DRILLED THROUGH HEAD, ZINC COATED PER ASTM B-695 CLASS 50 TYPE II, AND FREE OF HYDROGEN EMBRITTLEMENT, MATL CERT AND PROOF OF TEST MUST BE SUPPLIED PER SAE J429, SPEC. NO. 213,																			
PCK. INFO: PK 50 PC STEEL: SPHERICAL, SELF-ALIGNING, MATERIAL: LOW CARBON STEEL, HEAT TREAT; CASE HARDENED, FINISH: BLACK OXIDE, BOLT SIZE 5/8*, 21/32* ID, 1-3/8* OD, 3/8*	4182407	-	-	PC	8	100	4	100	32	BBA PROJECT, INC.	BBA BH50C104MG5D								
NOMINAL THICKNESS. FOR KNORR TRACK BRAKE SUSPENSION ROD ASSEMBLY, FURNISHED IN SET OF 2 PC	4182606	-	-	PC	4	100	4	100	16	JERGENSM	41106								
WASHER, FLAT, 5/8"ID, 1 1/8"OD, 3/32"TH, NEOPRENE	4182612	-	-	PC	4	100	4	100	16	ALERTMFG	4182612	BOMBARDI	A99-62221	INOVCMPO	4657659				
STOP, BRAKE ACTUATOR ARM	4182624	5785	R-2-1201	PC	2	100	4	100	8	CONCORD	SB2603	CPWCASTI	SB2603	INOVCMPO	4657671	POWERPAR	30312.00		
WASHER: FLAT, 0.407ID X 1-3/40D X 0.105 THK, SPECIAL, STEEL, ZINC DEPOSITED OR CADPLATED MECHANICALLY	4183008	-	R-3-1135	PC	4	100	4	100	16	ADVANCTR	A99-61530	BOEINGVR	335-11143-9	BUDD	A99-61530	INOVCMPO	4658055		
BUSHING, BRASS, ROD ASSY.	4183009	-	-	PC	4	100	4	100	16	INOVCMPO	4658056	SONIC	6305221						
BUSHING, NYLON, USED AT BRAKE RELEASE ROD TO IDLER ARM CONNECTION PER CTA DRWG. R-3-1135 ITEM A LETEST REVISION. REF: BOEING PARTS LIST 3-3-14 & 16.	4183010	N/A	R-3-1135	PC	4	100	4	100	16	BOEINGVR	335-11143-10	SONIC	6305232	WESTERNI	5294121				
WASHER, FLAT, 49/64"ID, 1 5/16"OD, .093"TH, NYLON	4183011	-	-	PC	8	100	4	100	32	ZLMACHIN	Z-4111								
BUSHING, NYLON, 5/8"OD, .380"ID, 470"L WASHER: FLAT, 5/8 BOLT SIZE, LOW CARBON STL, TYPE B,	4183017		R-3-1135	PC	2	100	4	100	8	ABILITYE	4183017	BOEINGVR	335-11143-12	HENROMFG	5745	INOVCMPO	4658064		
WIDE, PER ANSI B18.22.1, ZINC ELECTROPLATED UNION, HYDRAULIC SYSTEM INSTALLATION. REF: BOEING	4183027	-	-	PC	14	100	4	100	56	KNORR	2236006	WILLIEWA	4183027						
UNION, HYDRAULIC SYSTEM INSTALLATION. REF: BOEING PARTS LIST 6-1-10	4183075	N/A	N/A	PC	2	100	4	100	8	FLOWPROD	C5306X6	WEATHRHE	C5306X6						
INSULATOR, SPRING, LEFT HAND	4242747	-	-	PC	2	100	4	100	8	INOVCMPO	1002150								
INSULATOR, SPRING, RIGHT HAND WASHER: PLAIN, TYPE B, 5/16" BOLT SIZE, .344" ID, .875" OD, STAINLESS STEEL, TYPE 302, 303 OR 304. REF. BOEING		-	-	PC	2	100	4	100	8	INOVCMPO	1002151	PLASTICD	PDM1920						
STANDARD ST 72101-C35.	4303086	4758	-	PC	8	50	4	100	16										
NUT, SS, ELASTIC,3/8"-16	4496106	-	-	PC PC	4	50	4	100	16	ESNA	79NE-0-66								
WASHER, SPRING	5142073	-	-		4	100	7	100	16	GE	41A250114P1								
O-RING STUD: STEEL, CADMIUM OR ZINC PLATED, 3/4 - 16 X 2-3/4", THREADED 5/8" ON TAP END AND 3/4" ON NUT END, FOR MOUNTING HYDRAULIC SYTEM BRACKET ON	5155063	-	-	PC	2	100	4	100	8	GE	41A230956P5								
CALIPER Hydraulic adapter with quick release	5202601	N/A N/A	N/A N/A	PC PC	2	100 100	4	100 100	8										

Mechanical Assemblies

11//2012

R-BOM-002: BOM for 2600-Series Truck Overhaul Kit - Mechanical

DESCRIPTION	LOT NUM.	Spec #'s	Drawing #	UNIT Q	Qty/truck	% of repl/truck	trucks/kit	% of SCOPE	QTY/KIT	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER
LEVER, ASSY. PIVOT ASSEMBLY, FOR MAGNETIC TRACK BRAKE, KNORR PART LIST REF. 5, PAGE 1 RAIL RECLAMATION ITEM ORDER ON SHOP - SKOKIE	4183059		N/A	PC.	4	100	4	100	16	KNORR	STG 05013	SONIC	6305247						

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N-BOM-002. BOM 2000-Series Truck	1		T			% OF	truck	s/ % of	1			1	ı	1	ı	ı	ı	1	ı
DESCRIPTION	LOT NUM.	Spec #'s	Drawing #	UNIT	Qty/truck	REPLIASS	/ kit	SCOPE	QTY/K	KIT APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER
COVER, HEAT SHRINK, 6" L	1601004	-	-	PC	2	100	4	100	12	AMPINDST	53711-3								
COVER, HEAT SHRINK, 9" L	1601072	-	-	PC	4	100	4	100	36	AMPINDST	53712-3	CANUSA	CFW-11009D-BLK-PR	SIMONS,J	HS-4-306				
TERMINAL, RING TONGUE, 22/16 AWG, #8	1608004	-	=	PC	6	100	4	100	28	AMPINDST	31886								
HOSE, AIR, 5/16" ID X 5/8" OD	1923014		-	FT	20	100	4	100	40	ABBOTTIN	THERMOID G/S	APACHEHO	10036025	DEVILBIS	H-1901-1110	JBINDUST	7193-31250		
TUBING, RUBBER, 3/4" ID, 1" OD	1928013	_	_	PC	25	100	4	100	100		4099-0754/60-2	ALLIANCEH	TN-1202-NC						
TUBING, RUBBER,1 1/8" ID, 1 3/8" OD	1928021	_	_	PC	25	100	4	100	100		TW-1802								
COIL, RECEIVER, AUTO TRAIN CONTROL	3069829	_	_	PC	2	50	4	100	4	UNIONSWT	N451136-2702								
CONNECTOR,ATC JUNCTION BOX	3072626			PC.	1	50	4	100	2	BUDD	X87-62056	PYLENATN	DB-1413						
CONNECTOR, ATC JUNCTION BOX	3072628		-	PC	4	50	1	100	1	BUDD	X87-87006	PYLENATN	DB-8	REMKE,J	RSR106				
CHANNEL, SUPPORT, ELECTRIC CABLE, TRUCK WIRING,	3072628	-	-	PC	4	50	4	100		BODD	X87-87006	PYLENAIN	DB-8	REMRE,J	KSK100				
.090LT, REF: BUDD PARTS LIST 3-6-2B. SIZE 12-13/16" X 1- 11/4" X 1/16" THK.																			
1/4 X 1/16 THK.	3104677	-	R-2-1223	PC	1	75	4	100	4	BUDD	A87-84035	CTA	1709608						
ANGLE, SUPPORT. ELECTRIC CABLE, TRUCK WIRING, LEFT																			
HAND. ORDER ON SHOP - SKOKIE, ORGANIZATION 2430.	3104678		R-2-1224	PC	1	75	4	100	4	BUDD	A87-89425	CTA	1706509						
BUSHING, PLASTIC, FOR 1/2" RIGID CONDUIT	3131311	_		PC	4	100	4	100	10		222								
BUSHING, FIBER, FOR 1* RIGID CONDUIT	3131324		-	PC	1	100	1	100	4	APPLTNEL	BBU-100								
			-				-	100	-										
RING,O, SEALING TIGHT CONNECTOR, 1* BRACKET, #1 "L" SHAPED, W/ 7/16" DIA. HOLE, FOR	3146008	-	-	PC	1	100	4	100	2	THOMSBET	5264								
CLAMSHELL CABLE SUPPORT	4002415	<u>L</u> -	R-2-1259	PC	1	75	4	100	4										<u> </u>
ANGLE, SECURING, MOTOR LEAD CLEAT BLOCK	4002416	-	R-1-1663	PC	1	75	4	100	4										
STUD, THREADED, FOR MOUNTING CLEAT BLOCK AND ROCK SHIELD.	4002672	-	R1-1203	PC	4	100	4	100	16										
PLATE, CLEAT BLOCK	4002731			PC.	2	100	4	100	8	TTAMFG	B-0000-117-18								
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE	1002101					100			Ĭ	17,4111 0	5 0000 111 10								
COMPOUND, FOR SHOE TIE & TRACK TRIP CABELS.	4003131	1308	R-2-1288	PC	7	75	4	100	24										
BLOCK, CLEAT, TRUCK MADE FROM RED SILICONE																			
COMPOUND, FOR "A1", "A4", "F1", "F4", "AA", "F", SLIP SLIDE CABLES AND 40V HARNESS AT ROCK SHIELD.																			
CABLES AND 40V HARNESS AT ROCK SHIELD.	4003133	-	R-2-1290	PC	4	100	4	100	16										
PLATE, BOLSTER, GROUND	4003173	-	R-4-1081	PC	1	75	4	100	4	ADVANCTR	335-11165-49	BOEINGVR	335-11165-49	INOVCMPO	4478220	SONIC	6225395.00		
PLATE, TRUCK, GROUND	4003174	_	R-4-1081	PC	1	75	4	100	8	BOEINGVR	335-11165-131	INOVCMPO	4478221	SONIC	6225396				
BRACKET, ATC CABLE SUPPORT FOR WEGMANN TRUCK ASSEMBLY.																			
PLATE, GROUND, BOLSTER TO CARBODY AND TRUCK,	4003177	-	R-4-1081	PC	1	75	4	100	2	BOEINGVR	335-11165-104	INOVCMPO	4478224						
CLAM SHELL SIDE CARS 2401-3200.	4003178		R-2-1197	PC	1	75	4	100	4	CTA		INOVCMPO	4478225	SONIC	6225390				
PLATE, CLEAT BLOCK	4003253	_		PC	2	75	4	100	8	CENTSALE	E01-121-15	MORRISON	E01-121-15						
PLATE, CLEAT BLOCK	4003255			PC	1	75	4	100		CENTSALE	E01-121-30	MORRISON	E01-121-30						
BRACKET, "Z" CONFIGURATION	4003262			PC	,	75		100	12		E00-694-03	MORRISON	E000-694-03						
PLATE, CLEAT BLOCK	4003262		-	PC	-	75	1	100	26	CENTSALE	E01-121-17	MORRISON	E01-121-17						
		-	-	PC			1 .	100											
COVER, SPEED SENSOR	4004300	-	-	PC	1	100	4	100	4	INOVCMPO	ICS-1002263	VOSSENG	VH20-GAA	ZLMACHIN	Z-2096				
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR "AA1", "AA3" & SHOE TIE CABLE.	4013502	1308	R-2-1291	PC	8	100	4	100	32										
BLOCK, CLEAT, GROUND BRUSH CABLES	4013503	1308	R-2-1292	PC	20	100	1	100	112										
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE	4013303	1306	R-2-1292	FC	- 20	100	1	100	112										
COMPOUND, FOR "FF2", "FF3", "A2", "A3" CABLES AT CLAM SHELL.																			
	4013505	1308	R-2-1294	PC	2	100	4	100	8										
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR SHOE TIE CABLES.	4013515	1308	R-2-1295	PC	0	100	4	100	0										
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE	-0.3013	.300	11.2.12.00			100	+	100	1 "										
COMPOUND, FOR SHOE TIE CABLES.	4013516	1308	R-2-1296	PC	2	100	4	100	8										
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE																			
COMPOUND, FOR "FF2", "FF3, "A2", "A3", TRACTION MOTOR CABLES.	4040547	4000	B 2 4007		_	400	.	100											
DI OOK OLEAT TRIJOK MADE STON DED ON 100 (4013517	1308	R-2-1297	PC	2	100	4	100	8										
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR TRACTION MOTOR CABLES AT																			
MOUNTING PLATE.	4013518	1308	R-2-1298	PC	2	100	4	100	8										
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR TRACTION MOTOR CABLES AT																			
MOUNTING PLATE.	4013519	1308	R-2-1299	PC	2	100	4	100	8										
BLOCK: CLEAT, TRUCK, MADE FROM RED SILICONE	.2.5515	.300			_		1	,,,,											
COMPOUND, FOR SHOE TIE AND TRACK TRIP CABLES.	4013520	1308	R-2-1300	PC	3	100	4	100	12										
BLOCK: CLEAT, TRUCK, MADE FROM RED SILICONE COMPOUND, FOR SHOE TIE CABLES.	4013521	1308	R-2-1301	PC	0	100	4	100	0										
BLOCK, CLEAT, TRUCK, MADE FROM RED SILICONE	4013321	1300	11-2-1301	1.0	U	100	1	100	1										
COMPOUND, FOR "AA" AND "F" CABLES.	4013522	1308	R-2-1302	PC	2	100	4	100	8										
BLOCK: CLEAT, TRUCK, MADE FROM RED SILICONE	10.0022	.300	10 E 100E			100	17	100	1 3										
COMPOUND, FOR "AA" AND "F" CABLES.	4013523	N/A	R-2-1303	PC	2	100	4	100	8										
CIJAMP)1200P, 3/8"	4162610	_		PC	2	100	4	100	30	BUDD	X87-84238	INOVCMPO	4637657	TAMEG	TA02234C006CR	UMPCO	S451WSSG6		
	102010					, 100	, -	, 100	, 30	, 5000	, 70, 04200		,			, 51 00			

R-BOM-002: BOM 2600-Series Truck Overhaul Kit - Electrical

	I		I	1	ı	% OF	trucks/	% of								1		1	
DESCRIPTION	LOT NUM.	Spec #'s	Drawing #	UNIT	Qty/truck	REPL\ASSY	kit	SCOPE	QTY/KIT	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER
CONNECTOR, KNIFE	4183111	-	-	PC	4	25	4	100	18	AMPINDST	32161	KNORR	U 10496	LCOMP	32161				
TUBING, HEAT SHRINK, 1/8" EXPANDED, 48" LONG	4222667	-	-	PC	3	100	4	100	12	NEWARKEL	03F3530	SPCTECH	FPS-008-4025-BLK						
PLATE, INSULATING, 12" X 4" X 7/32, COTTON-PHENOLIC, USED ON WEGMANN TRUCKS.	4242420	_		PC	2	75	4	100	8	MK	E00-694-01	MOOREADD	MA5290						
PLATE, INSULATING, 12" X 4" X 7/32", COTTON-PHENOLIC, USED ON WEGMANN TRUCKS.	4242421	_		PC	2	75	4	100	8	MK	E00-694-02	MOOREADD	MA5390						
STRAP, GROUND, COUPLING TO MOTOR	4242699			PC	2	75	4	100		GE	41A232584G1								
SPACER: CLEAT, FOR SHOE TIE & SLIP SLIDE TRUCK TO CARBODY CABLES USED ON 24, 26R & 32 SUPER TRUCKS	4242727	N/A	N/A	PC		100	4	100	4	ADMSWSTL	23-2-78	TTAMEG	B-0000-124-03						
SENSOR,SPEED,w/CABLE,AXLE #1 "A" TRUCK, 2600/3200 &		N/A		1					4										
В	4243298	-	÷	PC	1	100	4	100	3	ELECTROC	725806CBL	GE	41B581503P1	MOTIONSE	PC55-22E	VAPOR	19010329-10		
CLAMP, LOOP, 5/8"	5142621	N/A	N/A	PC	1	100	4	100	10	BUDD	X87-84240	INOVCMPO	5617668	TAMFG	TA02234C010CR	UMPCO	S451WSSG10		
CLAMP, LOOP, 11/16"	5142622	-	-	PC	16	100	4	100	90	BUDD	X87-84241	INOVCMPO	5617669	TAMFG	TA02234C011CR	UMPCO	S451WSSG11		
PLATE. SUPPORT, .187*	5142626	-	-	PC	10	75	4	100	32	BUDD	A87-84993	INOVCMPO	V5617673	RIDELMFG	2543				
ANGLE, CLEAT BLOCK HOLD DOWN ELECTRIC CABLE INSTALLATION, .187 ASTM-A-36.	5142628	N/A	R-1-1149	PC	2	75	4	100	24	BUDD	A87-84033	ELMMACHI	R-1-1149	INOVCMPO	5617675				
PLATE, CABLE SUPPORT	5142634	-	-	PC	4	75	4	100	12	BUDD	A87-89561	INOVCMPO	5617681						
PLATE, SUPPORT, 187"	5142656	-	_	PC	9	75	4	100	8	BUDD	A87-84996	INOVCMPO	5217703						
PLATE, SUPPORT	5142659	-	-	PC	3	75	4	100	4	BUDD	A87-85021	INOVCMPO	5617706						
PLATE, SPACER, CABLE SUPPORT ASSY.	5142660	-	=	PC	1	75	4	100	2	ADVANCTR	ATS 04 3645	BUDD	A87-83463	TRISON	A87-83463				
CLAMP, LOOP, 9/16" DIA.	5142676	-	-	PC	1	100	4	100	20	BOMBARDI	X87-86158	BUDD	X87-86158	TRANSAME	TA02234C009CR	UMPCO	S451WSSG9		
PLATE: CABLE RETAINING, FOR TRACTION MOTOR COUPLER PLUG MP10, SUPERTRUCK, SLOTTED, UNIVERSAL, FOR USE IN ALL CAR SERIES.	5153700		R-2-1682	PC	1	25	4	100	1										
SHUNT, COPPER	5202607			PC	2	75	4	100	8	INOVCMPO	5677654								
SHUNT, COPPER	5202608			PC	2	75	4	100	8	INOVCMPO	1041539								

Electrical Assemblies

						% of	truck												
DESCRIPTION	LOT NUM.	Spec #'s	Drawing #	UNIT	Qty/truck	repl/truck	kit	SCOPE	QTY/KIT	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER
CABLE, GROUND BRUSH TO MOTOR	3102220	N/A	R-3-1582	PC	2	100	4	100	8										
CABLE 2/0	3104468			FT	2.29	100				AMERCABL	37-119-212	GENCABLE	81920	ROCKBEST	R-58-3016	SUPVUTRO	81920		
TERMINAL	1608099			PC	2	100				RIMAR	53161	THOMSBET	53161						
CABLE, ASSY. FOR ATC "A" TRUCK, 2600/3200	3103204	N/A	ALSTOM 26C-454001	PC	1	100	4	100	1										
CONNECTOR: PLUG, FOR ATC TRUCK TO CARBODY CABLE	3071011			PC	1	100				LITTONVE	CIR06LCFZ2421PF80	SPACECRA	SCPB06LCF-24-21P-F80-0T8						
CABLE: ATC,3 PAIRS SHIELDED 16 AWG	3103203			FT.	8	100				MK	A01-668-01	ROCKBEST	DAC06ACBU						
TERMINAL : TERMINAL TONGUE, SOLDERLESS, PRE-																			
INSULATED	1608155			PC	9	100				AMPINDST	320565	RIMAR	XR1902SN	THOMSBET	RB863	HOLNGSWR	R1902S		
TUBING : POLYVINYL CHLORIDE	3148298			FT	0.6	100				GRAYLINE	HS105C	STRANCO	GHS0375BLK						
TIE: CABLE, MINIATURE, SELF-LOCKING	3148353			PC	16	100				THOMSBET	TY524M	CALAMOUN	L-5-30-9-M	DENNISON	8383.00	PANDUIT	PLT1.5M		
HEAT SHRINK	4222667			BX	0.02	100				NEWARKEL	03F3530	SPCTECH	FPS-008-4025-BLK						
HEAT SHRINK	1601004			PC	1	100				AMPINDST	53711-3								<u> </u>
										1									
CABLE, ASSY FOR ATC, "B" TRUCK, 2600/3200			ALSTOM 26C-454001; ITEM 2	PC	1	100	4	100	1										
CONNECTOR: PLUG, FOR ATC TRUCK TO CARBODY CABLE		6732		PC	1	100				LITTONVE	CIR06LCFZ2421PF80	SPACECRA	SCPB06LCF-24-21P-F80-0T8						
CABLE: ATC,3 PAIRS SHIELDED 16 AWG	3103203			FT.	8	100				MK	A01-668-01	ROCKBEST	DAC06ACBU						
TERMINAL: TERMINAL TONGUE, SOLDERLESS, PRE-											1								
INSULATED	1608155			PC	6	100				AMPINDST	320565 HS105C	RIMAR	XR1902SN	THOMSBET	RB863	HOLNGSWR	R1902S		
TUBING : POLYVINYL CHLORIDE	3148298			FT	0.6	100				GRAYLINE	HS105C	STRANCO	GHS0375BLK						
TIE: CABLE, MINIATURE, SELF-LOCKING	3148353			PC	16	100				THOMSBET	TY524M	CALAMOUN	L-5-30-9-M	DENNISON	8383.00	PANDUIT	PLT1.5M		
HEAT SHRINK	4222667			BX	0.02	100				NEWARKEL	03F3530	SPCTECH	FPS-008-4025-BLK						
HEAT SHRINK	1601004			PC	1	100				AMPINDST	53711-3								
							_												
CABLE, ASSEMBLY, "AA" MOTOR LEAD	4002436	N/A	R-3-1583, REV. 4	PC	1	100	4	100	4										
TERMINAL: KNIFE CONNECTOR	1608022			PC	2	100				AMPINDST	52595-3	TRANSTEC	49600 K						
CABLE : ELECTRIC,2/0,325 STRANDS	3104468			FT		100				AMERCABL	37-119-212	GENCABLE	81920	ROCKBEST	R-58-3016	SUPVUTRO	81920.00		
WIRE: ELECTRIC,NO.2 CABLE,93.5"	3104478			FT	8	100				AMERCABL	37-119-209	GENCABLE	81902	OKONITE	DEL-026				
SPLICE:TAP, "C" TAP	1728391			PC	1	100				THOMSBET	54755								
CONNECTOR: CABLES,AA1 AND AA2	5151084			PC	1	100	_			GE	41D752647G2								
TUBING:SHRINK;30 DEG.SIDE-BREAKOUT	4153286			PC	1	100	_			TYCOELEC	362A014-25/86-0								
OADLE ACOV 40V #4	4000444	N//A	D 4 4500		-	400	+ .		-									1	
CABLE, ASSY., 40V #1	4002444	N/A	R-4-1590	PC		100	4	50	2		0.0000000000000000000000000000000000000		-						
CONNECTOR: FEMALE,8 PIN	5152536			PC	1	100	-	_	_	LITTONVE	CIR008F-22-23S-F80					00105001		1,5511100	0.0000 110 00 000
PLUG : AMPHENOL	3145011	1	-	PC	2	100	-	_	+	ABCONECT	ABCIRH08F14SCNF8	ADVANCTR	X87-8391	LITTON	CIRO8F-14S-6S-F80	SPACECRA	SCPB08F14S-6S-F80	VEAMCO	CIR08F-14S-6S-F80
WIRE : ELECTRIC, 12 AWG, 2 CONDUCTOR	3102623	1	-	FT	12.25	100	-	_	+	BUDD	X87-84094	SUPRENAN	DAC-02A-AQV	-				1	
WIRE: ELECTRIC, 600V, ONE CONDUCTOR, WHITE EXANE			1																
INSULATED, #12, STRANDED COPPER WIRE.	3102622	-	R-4-1556	FT	1	100	-	_	+	OFNEDOAR	075000 44 04	INDELECT	275000	-				1	
CABLE : ELECTRIC,3 CONDUCTOR,16 AWG	3102621	1	-	FT	14.30	100	-	_	+	GENERCAB	375600.41.01	INDELECT	375600					1	
CONNECTOR: KNIFE PLUG: FILLER.YELLOW	4183111 4242741	+	+	PC	2	100	-	_	+	AMPINDST LITTON	32161 10-101033-13	KNORR	U 10496	LCOMP	32161		1	1	
PLUG : FILLER, YELLOW PLUG : FILLER BLUE		-		PC	2	100	-	_	+	LITTON	10-101033-13			-				1	
PLUG: FILLER,BLUE BRACKET: 40V TRUCK HARNESS	4242742 4002433	+		PC pc	3	200	-	_	+	LITION	10-101033-12		-		-		1	1	
		-	SK-1-052107CA	PC	1	100	-	_	+	LITTONE	07004 0070							1	
CONTACT : ELECTRICAL, FEMALE (SOCKET)	7304608	+	+	PC	3	100	-	_	+	LITTONVE	27964-26T9		-		-		1	1	
FILLER: PLUG COVER: SPLICE	3103159	-		PC	3	100	-	_	+	VEAMCO	46808-16							1	
TERMINAL : RING TONGUE	1601004 1608128			PC	1	100	+	+	_	AMPINDST AMPINDST	53711-3 35109	HOI NGSWR	R5109	MOI EX	C-828-10	RIMAR	XR5109N	1	
TERMINAL . RING TONGUE	1008128		L	PC	1 2	100				AMPINUST	33109	I HOLNGSWR	n3109	I WULEX	U-028-10	RIMAR	VE3.10aN	1	

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R-BOM-002: BOM 2600-Series Truck Overhaul Kit - Electrical

ESCRIPTION	LOT NUM.	Spac #'e	Drawing #	LINIT	Qty/truck	% OF REPL\ASSY	trucks/	% of SCOPE	QTY/KIT	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUM
ABLE, ASSY., 40V #2	4002445		R-4-1591	PC		100	4		2										
ABLE : ELECTRIC	3102621	142	14 1001	FT		100	-	- 55		GENERCAB	375600.41.01	INDELECT	375600						
/IRE: ELECTRIC, 600V, ONE CONDUCTOR, WHITE EXANE	3102021				13	100	 			GENEROAD	373000.41.01	INDEEECT	373000						
VINE. ELECTRIC, 600V, ONE CONDUCTOR, WHITE EXAME	3102622					100										l			
I LIG:AMPHENOI	3145011			PT DC	1	100	 			ABCONECT	ARCIRH08F14SCNF8	ADVANCTR	X87-8391	LITTON	CIRO8F-14S-6S-F80	SPACECRA	SCPB08F14S-6S-F80	VEAMCO	CIR08F-14S-6S-F
ONNECTOR: FEMALE.8 PIN	5152536			PC PC	1	100	 			LITTONVE	CIR008F-22-23S-F80	ADVANCIN	A07-0391	LITTON	CII(ODI - 143-03-1 00	SI ACECITA	301 8001 143-03-1 00	VLAWCO	CII(00I - 140-00-1
ECEPTACLE : FOR PROPULSION	4013500			PC PC	1	100				LITTONVE	CIROOCFZ10SL3PF80	SPACECRA	SCPB00CFZ10SL-3P-F80						
ABLE: 2/C #18.TWISTED SHIELDED	3104674			FT	5.33	100	_			BELDENMF	8760	SPACECRA	3CFB00CF2103L-3F-F80						
OVER : SPLICE, SHRINKABLE	1601004			20	3.33	100				AMPINDST	53711-3								
RACKET: SPEED SENSOR CONNECTOR	4002448		MK B00-411 REV A	DC DC	1	100				Ann into 31	3571175								
RACKET: 40V TRUCK HARNESS	4002433		SK-1-052107CA	PC PC	1	100													
CREW: MACHINE, 4-40 X 1/2 STAINLESS STEEL, ROUND	4002433		5K-1-052107CR	- 1	-	100	_												
IEAD. SLOTTED. PER ANSI B18.6.3.S STEEL.	1369376			200		100				*BBA PROJECT INC	SMSR04C08P18					l			
IUT : LOCK	4213010				0	100	 			AEROSTOP	79NM0440	ELASSTPN	79NM-40						
LUG: FILLER, YELLOW, LITTON CONNECTOR PLUGS	4242741			PC PC	ä	100				LITTON	10-101033-13	ELASSIFIN	/ 914W-40						
ONTACT: ELECTRICAL, FEMALE (SOCKET)	7304608			PC PC			_			LITTONVE	27964-26T9							1	
ILLER: PLUG	3103159			PC	2	100	_			VEAMCO	46808-16							<u> </u>	
ONNECTOR : KNIFE	4183111				3	100	 			AMPINDST	32161	KNORR	U 10496	LCOMP	32161				
ONNECTOR . KNIFE	4103111			PC	- 4	100				AMPINDST	32101	KNORK	0 10490	LCOMP	32101				
ABLE, ASSY., S1, BEAM TO BEAM	4002615	N/A	R-3-1582	PC		100	-	100	4							-		+	
		IWA	R-3-1302	FC			-	100	-	T. 101 100 ET									
ERMINAL: CRIMP TYPE,4/0 CABLE SIZE,5/8" STUD SIZE ERMINAL: FLAG, 90 DEGREE 5/8" STUD FOR 250 MCM CABL	1608106			PC PC	1	100	_			THOMSBET	58166 RYB250J58G2-DPC								
ERMINAL: FLAG, 90 DEGREE 5/8: STUD FOR 250 MCM CABL CABLE: FLECTRIC 4/0 OKONITE	3103372			PC	12 50	100	_			DIESELPC AMCABI F	37-119-214	GENCABI E	81940	OKONITE	DEI -040				
ABLE : ELECTRIC,4/0,OKONITE	3103372			FT	12.50	100				AMCABLE	37-119-214	GENCABLE	81940	OKONITE	DEL-040				
ABLE, S1, CARBODY TO BEAM, 95"	4002653	N/A	R-3-1582	PC	1	100	4	100	4										
ABLE : ELECTRIC, 4/0	3103372			FT	7.90	100				AMCABLE	37-119-214	GENCABLE	81940	OKONITE	DEL-040				
ERMINAL : CRIMP TYPE,4/0 CABLE SIZE,5/8" STUD SIZE	1608106			PC	1	100				THOMSBET	58166								
ERMINAL: KNIFE CONNECTOR,4/0 CABLE	1608003			PC	1	100				AMPSPECL	53631-1	RIDELMFG	1608003	TRANSTEC	49600 F				
ABLE, ASSY., TRUCK FRAME TO BRUSH BOX	4242745	N/A	R-3-1582	PC	2	100	4	100	8										
ABLE: ELECTRIC. 2/O. 325 STRANDS. 24 AWG. 3/64"	4242140	147	11 0 1002		-	100	-	.00	•										
EOPRENE OR CPE JACKET	3104468			FT		100				AMERCABL	37-119-212	GENCABLE	81920	ROCKBEST	R-58-3016	SUPVUTRO	81920		
ERMINAL 3/8	1608259			PC	1	100	_			AMPINDST	36923	GENCABLE	81920	ROCKBEST	R-38-3016	SUFVUIRO	61920		
FRMINAL 3/8	1608259			PC		100	 			RIMAR	53161	THOMSBET	53161						
ERMINAL 3/0	1000099			FC	-	100	_			RIMAR	33161	IHOMSBEI	33101						
ENSOR, SPEED, ASSY., AXLE #3, PROPULSION, 2600/3200	4242222	N/A	MK C00-475	PC	1	100	-	50	2									+	
	4243232	INVA	MR C00-4/3	PC	-	100	-	30		ELECTROC	725806	FLECTROC	725806CBL	GE	41B581503P1	MOTIONSE	PC55-22E	VAPOR	19010329-10
ENSOR : SPEED, PROPULSION ECEPTACLE	4243298			PC PC	1	100	-	_		BUDD	725806 X87-84324	SPACECRA	725806CBL SCPB06CFZ10SL-3S-F80	VAPOR	41B5815U3P1 57326247-20	VEAMOO	CIR06CFZ-14-10SL-3S-F80	VAPUR	19010329-10
					1		_							VAPUR	5/32024/-20	VEAMCO	CIRU6CFZ-14-10SL-3S-F80		
UBING : POLYVINYLCHLORIDE	3148298 4222667			FT		100	-			GRAYLINE NEWARKEI	HS105C	STRANCO	GHS0375BLK						
UBING : HEAT,1/8" X 48"	4222667			BX	0.04	100	-			NEWARKEL	03F3530	SPCTECH	FPS-008-4025-BLK	-				1	
ABLE. TRUCK FRAME TO BOLSTER, 26" LONG	5142708	N/A	R-3-1582	PC	2	100	4	100	8		<u> </u>						1		
ERMINAL 3/8"	1608259	.47	1. 3-1302	PC		100	+ -	.30		AMPINDST	36923		 						
ABLE: ELECTRIC, LOCOMOTIVE, TINNED COPPER, 2/0, XLPO, 325					_														
TRAND, 24 GA.,110 DEG. C, 2000 V INS.	3102696	3793		FT	2.2	100	_			ROCKBEST	TXE-2/0-2KV								
ABLE, ASSEMBLY, BOLSTER TO CARBODY, 32", 2600	5142709	N/A	R-3-1582	PC	1	100	4	100	4				-						
ABI F	3104468			FT		100			•	AMERCABL	37-119-212	CTA	3102696 - 36"	GENCABLE	81920	SUPVUTRO	81920	ROCKBEST	R-58-3016
ERMINAL	1608259			PC		100				AMPINDST	36923	CTA	1928013 - 16"	CTA	3102696 - 39"	55. 76 INO	5.020	TOURDEST	14-30-3010
UBING	1928013			PC	1	100				ABBOTTRU	4099-0754/60-2	ALLIANCEH	TN-1202-NC	- JIR	0.102090 - 39			1	

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R-BOM-002: BOM 2600-Series Truck Overhaul Kit - Electrical

						% OF	truck												
DESCRIPTION	LOT NUM.	Spec #'s	Drawing #	UNIT	Qty/truck	REPLIASS	Y kit	SCOPE	QTY/KIT	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER	APPROVED VENDOR	VENDOR PART NUMBER
CABLE, ASSEMBLY, BOLSTER TO CARBODY, 41" L	5143029	N/A	R-3-1582	PC	1	100	4	100	4										
CABLE:ELECTRIC 2/0	3104468			FT	3.250	100				AMERCABL	37-119-212	CTA	3102696 - 36"	GENCABLE	81920	SUPVUTRO	81920	ROCKBEST	R-58-3016
TERMINAL	1608259			PC	1	100				AMPINDST	36923	CTA	1928013 - 16"	CTA	3102696 - 39"				
TERMINAL: 90 DEG. FLAG RING TONGUE FOR 2/0 CABLE, 3/8	1608265				,	100				AMPINDST	321584								
5100.	1000203			1 10	1 1	100		_	-	ANII INDOI	321304	-				1			
ASSEMBLY: ATC JUNCTION BOX INCLUDING TERMINAL BOARD				PC	1	100	4		1										
BOX, ASSEMBLY, ATC JUNCTION, REF: MK MANUAL, 3N-1, PAGE 3-132	2072042	0400	D 0 4004	PC		100	Ι.	100											
	3072613	6136	R-3-1621	PC	1	100	4	100	2										
BLOCK: TERMINAL, 9 POSITION TERMINAL BOARD	3140477			PC	1	100	4		1	KULKEL	812-2202-9								
SCREW: CAP, SZ. 10-32 X 1"L, SOCKET HEAD, ALLOY STEEL, CADMIUM PLATING PER ASTM A165-55, TYPE TS	4302416			PC	2	100			,										
WASHER: FLAT, #10 BOLT SIZE, WROUGHT STEEL, .500 OD	4302410			- 10	1 -	100			-										
X .219 ID X .049 THICK, TYPE A, PER ANSI B18.22.1 ZINC ELECTROPLATED.	1126063	4758		PC	2	100	4		2										
WASHER: LOCK. #10 BOLT SIZE STAINLESS STEEL.																			
HELICAL SPRING TYPE, REG. PER ANSI B18.21.1.	1126075	4758		PC	2	100	4		2										
RECEPTACLE: PRESS-IN ATC JUNCTION BOX. BUDD REF. 3-																			
5-8	3072615			PC	6	100	4		6	BUDD	X87-83617	SOUTHCO	85-35-308-55						
	0072010				Ť	100			l i	5000	X07 00017	00011100	55 55 555 55						
CAP: SEALING, PRESS-IN RECEPTACLE	3072616			PC	6	100	4		6	BUDD	X87-83618	SOUTHCO	85-43-101-41						
STRIP: MARKER, ATC JUNCTION BOX BUDD REF. 3-5-6			SKR-1-020808CA	PC	1	100			,										
			3101-1-020000CA	110		100				1		1		1		1		!	
COVER: ASSY., ATC JUNCTION BOX	3072618		R-3-1622						1	BOMBARDI	87-84580	BUDD	B87-84580						
COVER: ASSY., ATC JUNCTION BOX																			
			R-3-1622	PC	1	100	4	100	2										
GASKET - 1/8" THICK NEOPRENE, AFFIXED TO COVER WITH ADHESIVE (MIRACLE - TYPEP)			R-3-1622	PC	1	100	4		1										
RETAINER: ATC, PUSH-ON ATC JUNCTION BOX				PC		100	Ι.												
	3072619	-	R-3-1622	PC	6	100	4	+	6	BUDD	X87-83622	SOUTHCO	85-34-201-20						
WASHER: CUP, 0.305ID X 5/80D X 0.025 THK X 7/64 HEIGHT,					1														
SPECIAL, NYLON, WEAR, INTAKE GRILLE ASSEMBLY.	4114477		R-3-1622	PC	6	100	4		6	SOUTHCO	85-46-101-39				<u> </u>		<u> </u>		
SPRING: EJECTOR COVER STUD				PC		100				GM									
	8521589		R-3-1622	PC	1 0	100	1 4	+	P 0	GM	650136	SOUTHCO	14-18-150-24				1		
STUD: HEAD, OVAL HEAD, SLOTTED, ATC JUNCTION BOX PUSH-ON RETAINER.	3072620		R-3-1622	PC		100	1,			BUDD	X87-83621	SOUTHCO	85-11-420-20						
	3012020		R-3-1022		-	100	+ 4	+		DUDU	A01-03021	JUUINUU	03-11-420-20						
SEALING WASHER			R-3-1622	PC		100	١.			SOUTHCO	85-43-201-38								

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MASTER CONTROLLER KIT > R-BOM-010

	WASTER CONTRO	LLER KII > R-BUIVI-	510	1		
DESCRIPTION	A	PPROVED VENDORS (PART	#'S)	LOT NUM.	иом	QTY PER UNIT/ KIT
PIN: STOP, SUPPORT, 1/8" DIA. X 1"	GE (N509P1316B)	NA	NA	5141369	PC	6
BUSHING: CAMSHAFT 1/2" LONG, FOR	GE (N2114P83A)	NA	NA	5156004	PC	6
ROLLER: PAWL, FOR GE 17KC113A1 MASTER	GE (41A259062P1)	NA	NA	5156135	PC	12
SPRING: PAWL, USED ON 17KC107A1 MASTER	GE (41A259092P1)	NA	NA	5141131	PC	8
SPRING: PAWL. USED ON 17KC107A1 MASTER	GE (41A259242P1)	NA	NA	5141133	PC	2
ROLLER: PIVOT, FOR REVERSE HANDLE TO	GE (41A259584P1)	NA	NA	5156032	PC	8
SPRING: PIVOT TO SPACER, 2-1/16" FREE	GE (41A260525P1)	NA	NA	5141126	PC	2
FINGER: CONTACT, WITH TIP AND ROLLER,	GE (41A261295P1)	NA	NA	5156056	PC	2
SPRING: PAWL, USED ON 17KC107A1 MASTER	GE (41A262419P1)	NA	NA	5141132	PC	4
SPRING: SHAFT SUPPORT BLOCK, FOR	GE (41A267919P1)	NA	NA	5156040	PC	2
PIN: ROLLER, TO PAWL, 3/16 DIAMETER,	GE (41A272555P1)	NA	NA	5156136	PC	4
SPRING: LOAD PAWL, 5/16" OUTSIDE DIA.	GE (41A278757P1)	NA	NA	5152598	PC	4
CAPACITOR: 3MFD, 1000V	GE (41A296302BJP3)	NA	NA	5152400	PC	2
SUPPORT: CONTACT, FINGER, 1/8" THICK	GE (41B555430P1)	NA	NA	5156057	PC	2
UNIT: THROTTLE, CONTACT,	GE (41C660180G1)	NA	NA	5156117	PC	2
UNIT: FINGER	GE (41C660180G2)	NA	NA	5156123	PC	2
CONTACT ASSEMBLY	GE (41C660180G5) - NOT IN SYSTEM	NA	NA	PC	2
FINGER ASSEMBLY	GE (41C660180G6) - NOT IN SYSTEM	NA	NA	PC	2
HANDLE: U/E ASSEMBLY, WITH SHAFT, BUSHING,	GE (41D752203G4)	NA	NA	5156060	PC	2
PIN: SPRING WITH OIL WICK, 3/16" DIA. X 1/2"	GE (482A764G15)	NA	NA	4157683	PC	4
PIN: PIVOT, REVERSE HANDLE TO THROTTLE	GE (482A764G28)	NA	NA	5156033	PC	14
FINGER: WITH TIP, ROLLER AND TERMINAL	GE (8839678G1)	NA	NA	5141435	PC	2
TIP: CONTACT, STATIONARY, FOR KM CAM	GE (9963477G19)	NA	NA	5141224	PC	2
PIN: SPRING, DOWEL, 1/8" DIA. X 5/8",	GE (N509P1310B13)	NA	NA	5156047	PC	4
PIN: STOP, SUPPORT, 1/8" DIA. X 1"	GE (N509P1316B)	NA	NA	5141369	PC	4
PIN: SPRING, DOWEL, 3/16" X 1-1/2",	GE (N509P1924)	NA	NA	5155530	PC	4
RING: RETAINING, SPRING, EXTERNAL TYPE, 0.250	GE (N900P25)	NA	NA	5141056	PC	8

CAM GROUP REBUILD KIT (GE) > R-BOM-020

DESCRIPTION	A	PPROVED VENDORS (PART	#'S)	LOT NUM.	иом	QTY PER UNIT/ KIT
BRUSH: WITH PIGTAIL & TERMINAL,	GE (2X4079)			5141099	PC	8
SPRING: FOR GE 175M48L1 CONTROLLER.	GE (41A251680P1)			5141456	PC	8
PIN: ROLLER, 1-1/8" LONG,	GE (41A251731P10) NO	VENDOR LISTED IN ORACLE		5141453	PC	8
BEARING: LEVER BALL, FOR GE 17KM48	GE (41A251791P2)			5141501	PC	8
CLIP: COIL, BLOWOUT, FOR GE	GE (41A255709P1)			5141478	PC	26
WASHER: CAM RETAINING, 0.120" THICK,	GE (41A255722P1)			5141314	PC	2
HOOD: SUPPORT, BLOWOUT COIL	GE (41A257911P1)			5142239	PC	4
CONTACT: STATIONARY, WITH INSERT,	GE (41A258094G2)			5141123	PC	20
SPRING: ARM, CONTACT ARM, FOR	GE (41A324627P1)			5141416	PC	4
CONTACT: STATIONARY, 1-1/8"W, FOR R1, R2 R3, R	GE (41B551721P4)			5141006	PC	22
CONTACT: STATIONARY, 1-1/8" WIDE, WITH	GE (41B551996G3)			5141488	PC	4
STOP: FEMALE, SPLINED CAMSHAFT, 4-3/16"	GE (41C653385G1)			5142404	PC	2
CONTACT: U/E UNIT, WITH SUPPORT, LEVER, ARM,	GE (41C665209G1)			5142458	PC	22
CONTACT: U/E UNIT, WITH SUPPORT, LEVER, ARM,	GE (41C665209G2)			5142461	PC	20
KIT: MARKER, FOR GE CONTROL GROUP	GE (41C667289P1)			5152657	PC	2
PIN: PIVOT, PAWL, WITH WICK,	GE (482A764G20)			5141455	PC	8
SCREW: CORE TO FRAME, 1-1/4" LONG, WITH	GE (8823750P285)			5153027	PC	8
SPRING: CONTACT, LEVER, FOR GE 17KM48L1	GE (8823849P1)			5141362	PC	42
BEARING: BALL, SINGLE ROW 0.7874" ID,	GE (8835857P23)			1613007	PC	4
BEARING: BALL, LIGHT SERIES, CONTACT	GE (8835857P24)			1615004	PC	8
BEARING: BALL 1.181" ID,	GE (8835857P25)			5141277	PC	2
GEAR: FOR GE 17KM48L1 CONTROLLER.	GE (9960135P1)			5141093	PC	2
SCREW: CAP, 5/16-18 X 1-3/4, SCKT. HEX	GE (N170AP23028B13)			5141430	PC	8
SCREW: CAP, 5/16-18 X 3-1/4 SCKT HEX HD	GE (N170AP23052B13)			5141433	PC	4
BUSHING: "OILITE TYPE", FOR INSPECTION	GE (N2113P229A)			5142269	PC	8
KEY: 1/8" THICK X 5/8" LONG X 1/4" HIGH,	GE (N3400P405) NO V	ENDOR LISTED IN ORACLE		1323811	PC	2
KEY: GEAR TO SHAFT, 5/8" X 5/32",	GE (N3400P505) NO VI	ENDOR LISTED IN ORACLE		5141282	PC	2
KEY: STOP TO SHAFT, WOODRUFF NO. 9,	GE (N3400P606)			5151132	PC	2
SCREW: SLOTTED, FILH. # 8-36 X 1 3/4"LG.	GE (N44P14028B13)			5141139	PC	2
RING: RETAINING, MOTOR GEAR RETAINING,	GE (N900P75)			5141280	PC	2
RING: RETAINING, 0.781" DIA., SHAFT,	GE (N900P78B)			5141328	PC	2
RING: STOP RETAINING, 0.083" THICK, EXTERNAL T	GE (N922P75P)			5144461	PC	2
SHAFT: REF: SECTION,4A2.9.3N ITEM 1,	GE (41C667437P1)			5141153	PC	2
PLATE: INDICATING, CAM	GE (41A255092P2)			5151202	PC	2
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7/24/2012

CAMS & FIBER PARTS > R-BOM-030

DESCRIPTION	AI	PPROVED VENDORS (PART#'	S)	LOT NUM.	UOM	QTY PER UNIT/ KIT
CAM: LOADING, WITH DIAL INDICATING	MOORE ADDISON (5141164MA)	NA	NA	5141164	PC	2
CAM: LOADING, WITH DIAL INDICATING	GE (41B567986P101)	NA	NA	5141161	PC	2
CAM: LOADING, FOR 3200 SERIES CAM GROUP	GE (41C667400P1)	NA	NA	5141154	PC	2
CAM: LOADING, FOR 3200 SERIES CAM	GE (41C667401P1)	NA	NA	5141155	PC	2
CAM: R1 USED ON 2600 & 3200 SERIES CAM CONTRO	MOORE ADDISON (5020065MA)	NA	NA	5020065	PC	2
CAM: KM29 USED ON 2600 AND 3200 SERIES CAM CO	MOORE ADDISON (5020048MA)	NA	NA	5020048	PC	2
CAM: RP1 USED ON 2400, 2600 & 3200 SERIES CAM	MOORE ADDISON (5020062MA)	NA	NA	5020062	PC	2
CAM: B2 USED ON 2600 & 3200 SERIES CAM CONTRO	MOORE ADDISON (5020051MA)	NA	NA	5020051	PC	2
CAM: M2 USED ON ALL SERIES RAIL CARS CAM CONT	MOORE ADDISON (5020056MA)	NA	NA	5020056	PC	2
CAM: R7 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020077MA)	NA	NA	5020077	PC	2
CAM: R9 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020081MA)	NA	NA	5020081	PC	2
CAM: R8 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020079MA)	NA	NA	5020079	PC	2
CAM: RP1 USED ON 2400, 2600 & 3200 SERIES CAM	MOORE ADDISON (5020062MA)	NA	NA	5020062	PC	2
CAM: R13 USED ON 2400, 2600 & 3200 SERIES CAM	MOORE ADDISON (5020088MA)	NA	NA	5020088	PC	2
CAM: R12 USED ON 2400, 2600 & 3200 SERIES CAM	MOORE ADDISON (5020086MA)	NA	NA	5020086	PC	2
CAM: R5 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020073MA)	NA	NA	5020073	PC	2
CAM: R11 USED ON 2400, 2600 & 3200 SERIES CAM	MOORE ADDISON (5020084MA)	NA	NA	5020084	PC	2
CAM: R3 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020069MA)	NA	NA	5020069	PC	2
CAM: P1 & P2 USED ON 24, 26 & 32 SERIES CAM CO	MOORE ADDISON (5020058MA)	NA	NA	5020058	PC	4
CAM: RB1 USED ON 2400, 2600 & 3200 SERIES CAM	MOORE ADDISON (5020060MA)	NA	NA	5020060	PC	2
CAM: B1 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020049MA)	NA	NA	5020049	PC	2
CAM: R2 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020067MA)	NA	NA	5020067	PC	2
CAM: R4 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020071MA)	NA	NA	5020071	PC	2
CAM: R6 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020075MA)	NA	NA	5020075	PC	2
CAM: R14 USED ON 2400, 2600 & 3200 SERIES CAM	MOORE ADDISON (5020089MA)	NA	NA	5020089	PC	2
CAM: M1 USED ON 2400, 2600 & 3200 SERIES CAM C	MOORE ADDISON (5020055MA)	NA	NA	5020055	PC	2
PLATE: ASSEMBLY, CAMSHAFT SUPPORTING, FOR GE	MOORE ADDISON (5151178MA)	NA	NA	5151178	PC	6
GEAR: CAMSHAFT DRIVE	MOORE ADDISON (5151178MA)	GE (332B514P1)	NA	5141278	PC	2
GEAR: MOTOR DRIVE	FRNKLNEI (09-38-0231)	GE (9960138P1)	QUALTYTO (Q5141279)	5141279	PC	2
WASHER: CAM SPACING, 1/8" THICK,	FRNKLNEI (09-38-0686)	GE (41A323716P2)	NA	5141307	PC	4
WASHER: CAM SPACING, 0.250" THICK,	FRNKLNEI (09-38-0687)	GE (41A323716P3)	NA	5141308	PC	4
SPACER: CAM, 5/8" THICK,	GE (41A323716P4)	MOORE ADDISON (5152417-MA)	NA	5142417	PC	68
SHIM: BETWEEN STOP AND CAM. 0-030" THK	GE (6703140P1)			5141316	PC	2
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7/24/2012

TRACTION MOTOR KIT > R-BOM-040

DESCRIPTION		APPROVED VENDORS (PART #	r'S)	LOT NUM.	иом	QTY PER UNIT/ KIT
FITTING COMM BEARING CAP	610 - CHIEFTAI	1610-BL -ALEMITE	500168-2 - DANACORP	1580002	PC	8
BEARING COMM	8864950P67 - GE	6308ZC3 - NTN	6308ZJ/C3 - SKF	1619616	PC	8
BEARING COUPLING	8864951P55 - GE	NU212L1BC4 - NTN	NU212M/C4 - SKF	1622003	PC	8
GASKET COMM	41A232391P1 - GE			5140017	PC	8
BUSHING RUBBER	481A539P29 - GE	5615071 - ICS	HL9913 - HILINE	5140024	PC	32
GASKET COUPLING	41A232423P2 - GE			5142172	PC	8
FITTING PINION END	N2800P1 - GE			5153675	PC	8
BRUSHES	41A330117P1 - GE	C-2428 - MERSEN USA	62000118 - NATIONAL	5202003	PC	64
COLLAR BEARING RETAINER	41A239859P1 - GE	R-2-1687 - CTA		5140086	PC	8
TERMINAL 5/16" STUD SIZE 1/0 AWG		36916 - AMP		1608256	PC	16
SHIM PARR CONNECTOR		36948 - AMP		1607002	PC	40
HYLUG TERMINAL 1/4" SIZE #1 AWG		YA3C-LB - BURNDY		3143030	PC	32
LOCK WASHER COUNPLING END SPECIAL	41A238183P2 - GE			1126051	PC	8
LOCK WASHER COMM END	8864959P108 - GE	Y-909 - ALLORCOR	M-140 - AMUNITED	5140022	PC	8
OIL SEAL COUPLING END	494A352P12 - GE	PPC 13704 - POWERPART	0400-9458-LPDW - JOHNSMNV	5155064	PC	8
SPRING BRUSHOLDER	3X2813 - GE	1040-SP - FULMER	CL-PE-4257-01B - CARBONE	5012035	PC	64
SCREW 10-32 X1/2" SLOTTED HEX HEAD		1040-5HS - FULMER	87644-2 - JMDIND	1380993	PC	64
EPOXY 2 PART 5 0GRAMS		2483-1FA - ELCTROLO	958-12-50-TP - SMTHOFPH	1009018	PC	8
BAND CREEPAGE TEFLON	41B537080P5 - GE	7011P - PARKSEAL	12505 - SAINTGOB	5152608	PC	8
CLAM SHELL CONTACT	41A265467P2	R-2-1679 - CTA		5155040	PC	8
BLACK BOOT STANDARD CTA	41A265440P2			4240117	PC	8
BLACK NEOPRENE HOSE		4099-0754/60-2 - ABBOTTRU	TN-1202-NC - ALLIANCEH	1928013	PC	8

7/26/2012

A/C UNIT REBUILD KIT - R-BOM-050

DESCRIPTION	AF	PPROVED VENDORS (PART #	'S)	LOT NUM.	UOM	QTY PER UNIT/ KIT
EXPANSION VALVE	654D006 - ALBATROS	TCLE5HW100 - ALCOVALV		4483319	PC	2
RETURN AIR FILTER	FP4482612 - FILPRO	403383300 - CAMFIL FARR	IFMK14254 - INTFILT	4482612	PC	2
CONDENSER FILTER	N-35923 - DURALAST	FPE5712116FR - FILPRO	PTA4482619 - PREMIUMT	4482619	PC	2
FILTER DRYER	306-221 - THERMIKING	C-41E3 - SPORLAN	911007501 - VAPOR	4483446	PC	2
SOLENOID VALVE KIT	KS30321 - ALCOCNTR			4482617	PC	2
LATCH	V2-0025-52 - SOUTHCO			4482670	PC	4
COMPRESSOR	ZR-81KC-TF5-965 - COPLAND	652A061 - ALBATROS		4483391	PC	2
BLOWER MOTOR	07H871W789 - BALDOR	646B196 - ALBATROS		4482801	PC	1
CONDENSER MOTOR	07H873W787G1 - BALDOR	646B200 - ALBATROS		4482802	PC	1

7/26/2012

GE CONTROL GROUP KIT - R-BOM-060

DESCRIPTION	AF	PPROVED VENDORS (PART #	"S)	LOT NUM.	UOM	QTY PER UNIT/ KIT
BREAKER: U/E LINE, ASSEMBLY, USED ON CONTROL	GE (17JM7S421)	NA	NA	5153200	PC	2
CONTACTOR: U/E SERIES "S" AND "M3" FOR CONTRO	GE (17CM53AF18)	NA	NA	5153248	PC	4
RELAY: U/E CONTROL ASSEMBLY, GE17V66DR510	GE (17LV66DR51D)	NA	NA	5153009	PC	2
CONTACTOR: FS 1-4, FOR 26, 32 MAIN	GE (17CM57BB5)	NA	NA	5020110	PC	8
CONTACTOR: RC 1-4, FOR 26, 32	GE (17CM57BC5)	NA	NA	5020109	PC	8
CONTACTOR: U/E TBC, USED ON 2600 MAIN	GE (17CM57AW6A)	NA	NA	5153043	PC	2
RELAY: U/E ASSEMBLY, GE17LV66AV1 USED AS	GE (17LV66AV1)	NA	NA	4243206	PC	4
UNIT: U/E CONTACT, P1 & P2 SWITCH, WITH	GE (41D750493G11)	NA	NA	5142462	PC	4

7/26/2012

DOOR RELAY SWITCH KIT - R-BOM-070

DESCRIPTION	Δ	.PPROVED VENDORS (PART#	S)	LOT NUM.	иом	QTY PER UNIT/ KIT
RELAY: U/E FOR OVERHEAD RELAY PANEL	VAPOR (35840015)	NA NA	NA NA	5154079	PC	2
RELAY: DEAD MAN.	VAPOR (57920985)	NA NA	NA NA	4213569	PC	2
RELAY: DC, 4 FORM C, ZIR RELAY,	VAPOR (37531650)	NA NA	NA NA	4073629	PC	2
RELAY: VOLTAGE, DC VOLTAGE, 1 FORM C	VAPOR (36530117-45)	NA NA	NA NA	4072998	PC	2
RELAY: VOLTAGE, DC VOLTAGE	VAPOR (37530117-63)	NA NA	NA NA	4073474	PC	16
SWITCH: SNAP-ACTION WITH LEVER. ENVIROMENTAL	VAPOR (58510962-00)	NA NA	NA NA	4073119	PC	32
SWITCH: SNAP ACTION, ENVIRONMENTAL	VAPOR (58510961)	NA	NA	4073548	PC	4
SWITCH: TOGGLE.	VAPOR (47610098)	NA	NA	4073466	PC	16
ROLLER: NYLON FOR SIDE DOOR MULTIPLYING	VAPOR (56410008)	NA	NA	4152410	PC	16
SHAFT: HEXAGON FOR SIDE DOOR MULTIPLYING	VAPOR (57010287)	NA	NA	4272400	PC	16
VARISTOR: ASSEMBLY	VAPOR (57620108-04)	NA	NA	4073476	PC	12
VARISTOR: ASSEMBLY.	VAPOR (17620640-13)	NA	NA	4213564	PC	2
RELAY: DISCONTINUE/USE L/N 4073629, 15A/10A RES	VAPOR (37530117-83)	NA	NA	4073011	PC	10
RESISTOR: ADJUSTABLE, 100 W, 5 OHM	VAPOR (57320333-02)	HUNTINGTON (ASE100-5)	NA	4073251	PC	4
RESISTOR: ADJUSTABLE, 100 W, 10 OHM,	VAPOR (57320333)	HUNTINGTON (ASE100-10)	NA	4073252	PC	4
SWITCH: PUSHBUTTON, FOR EXIT DOOR, 3/8"	LICON (14-300009)	VAPOR (56410212)	NA	8581014	PC	8
						Щ

7/24/2012

HPCU REBUILD KIT > R-BOM-080

	TIF CO NEBOIL	J KIT > R-BUIVI-000				
DESCRIPTION	APPROVED VENDORS (PART #'S)				иом	QTY PER KIT
GEAR PUMP ASSEMBLY	GP-0518-G10 - VIKING			4163535	PC	1
OIL SEAL PUMP ASSEMBLY	P302-03 - TECTRAN			4163048	PC	1
O-RING PRESSURE CONTROL VALVE	P200-09 - TECTRAN			4163054	PC	1
ELEMENT ASSEMBLT 10 MICRON HIGH PRESSURE	FP799ACC10CB - FILPRO	038062 - FACET	10636 - TECTRAN	4163098	PC	1
BRUSHLESS MOTOR 36 VDC 1/2 HP	150101-00 - AMETEK			4162007	PC	1
SEALING GASKET	11292 - TECTRAN	749614 - NYAIRBRA		4163511	PC	1
COVER GASKET	749619 - KNORR	W121-0000-36024 - ATLATNTAI		4163518	PC	3
FILTER BREATHER 40 MICRON 1/4 " NPT	1321-19-00 - ROTAN	569020-01 - FACETFIL	P452-01 - TECTRAN	4163026	PC	1
SUCTION FILTER 3/8" NPT	P451-02 - TECTRAN	749533 - KNORR		4163045	PC	1
RESILIEN MOUNT	200P-35 - LORD	P170-02 - TECTRAN		4163051	PC	4
0-RING 1-23/32" OD	755559 - NYAIRBRA			4163570	PC	1
COIL 12 V POTTED	749596 - NYAIRBRA			4163411	PC	1
O-RING 3/4" OD X 1/16" ID	756718 - NYAIRBRA			4163618	PC	1
O-RING .487" ID +/005"	P200-94 - TECTRAN			4163531	PC	5
BRASS SHIM	10615 - TECTRAN			4163069	PC	1
WIRING HARNESS WITH SEALING GASKET				4183253	PC	1
	WIRE #2 WHITE STRANDED 600\	/		3102622	FT	6
	TERMINAL RING 12-10 AWG	35109 - AMP		1608128	PC	6
	CONNECTOR RECEPTACLE WITH PINS	CIR020R-15S-F80 - LITTON VEAM		4183248	PC	1
	SEALING GASKET	16955 - LITTON VEAM		4183249	PC	1
SQUARE KEY CARBON STEEL CADMIUM PLATED	P351-02 - TECTRAN			4163038	PC	1
BRASS ROD	4638107 - ICS	10728 - TECTRAN	749589 - KNORR	4163060	PC	2
NYLON 6 TUBE .110" ID X 3/16" OD X .387" WALL CLEAI				4163061	PC	2
TERMINAL FITTING CARBON STEEL	10338 - TECTRAN	749590 - KNORR		4163062	PC	2
O-RING	P200-41 - TECTRAN			4163063	PC	2
RESERVOIR GASKET NEOPRENE	13664 - TECTRAN	749623 - KNORR		4163014	PC	1
PUSH-ON RING CARBON SPRING STEEL	5115-87 - TRUARC	P507-01 - TECTRAN		4163071	PC	1
ELBOW 7/16-20, 1/2-14 PIPE	P643-02 - TECTRAN			4163538	PC	1
MESH FILTER CYLINDER STAINLESS STEEL	11409 - TECTRAN	749625 - KNORR		4163087	PC	1
RETAINING RING 3/16" X .42"	N5000-91ZF - TRUARC	N5000-91ZF - BERRYBER	3000X812DST - BEARINGH	4163595	PC	1
SET SCREW 6-32 X 1/8" NYLON TIP 1/16" HEX SOCKET 1/32" TIP LENGTH STAINLESS	P867-07 - TECTRAN			4163039	PC	2
ELBOW 90 DEG. 7/16 ORB 3/8 TUBE (ADJ.) /37 DEG.	2062-4-6S - AEROQUIP			4162675	PC	1
O-RING .346" ID X .070 W	P200-23 - TECTRAN	755368 - KNORR		4163175	PC	1
O-RING	P-200-87 - CONOVER	P200-87 - TECTRAN		4163055	PC	5
O-RING	P200-09 - TECTRAN			4163054	PC	1
						1

8/22/2012

MIXED ITEM MATERIAL LIST

ITEM Description	LOT#	SPEC #	DRAWING #	Approved Mfg.	Mfg. P/N	UOM	QTY Required
Sensor: Proximity	5143206	4664-12		Contrinex	DW-AD-603-M18-718	рс	1400
Encoder: Incremental	4240099	9870-12		BEI Ind.	924-01002-10302	рс	100
Track: Side Door	4152770	9173-12		Elcon National	EN106193	рс	800
Operator: Door, Complete	4073502	7363-12		Vapor	57867114-10	рс	400
Spring: Carbody, Outer	4004566	6794-12	R-4-1099			рс	400
Spring: Carbody, Inner	4004564	6794-12	R-4-1100			рс	400
Reverser: Complete	5153242	8171-12		Bey Electronics	22375	рс	100
Door Threshold Kit		9757-12	R-2-740			KIT	400
			R-2-741				
			R-1-629				
			R-1-630				
			R-2-742				

APPENDIX E

DETAIL SPECIFICATIONS

•	Truck Overhaul Kit	CTA 8170-12
•	Master Controller Kit	CTA 8157-12
•	CAM Group Kit	CTA 8158-12
•	Cam, Plates, Gears, Spacers Kit	CTA 8156-12
•	Traction Motor Kit	CTA 8161-12
•	A/C Unit Overhaul Kit	CTA 8153-12
•	Control Group Contactors Kit	CTA 8154-12
•	Door Relays Kit	CTA 8155-12
•	HPCU Rebuild Kit	CTA 8179-12
•	Door Threshold Kit	CTA 9757-12
•	Proximity Sensor	CTA 4664-12
•	Incremental Encoder	CTA 9870-12
•	Side Door Track	CTA 9173-12
•	Door Operator	CTA 7363-12
•	Carbody Spring Inner/Outer	CTA 6794-12
•	New Style Reverser	CTA 8171-12

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, RAIL CAR TRUCK, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8170-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete rail car truck overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car truck was Wegmann & Co. Waggonfabrik u. Fahrzeugbau of Kassel, Germany.

3. REQUIREMENTS

- 3.1 Each complete rail car truck overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-002, which shall be contained in the Contract Documents.
- 3.2 Each kit furnished shall include a total of seven (7) sub-kits for each rail car truck. The seven (7) sub-kits are to be called: Mechanical, Electrical, Hardware, Gear Suspension, Horizontal Motor Suspension, Vertical Motor Suspension, and Track Brake Suspension.
- 3.3 Each box/container for a given sub-kit furnished shall be legibly labeled on its top outside surface as to its contents with the words, as applicable, "MECHANICAL PARTS", "ELECTRICAL PARTS", "HARDWARE PARTS", "GEAR SUSPENSION PARTS", "VERTICAL MOTOR SUSPENSION PARTS", and "TRACK BRAKE SUSPENSION PARTS".

3. <u>REQUIREMENTS (Continued)</u>

3.4 EACH master pallet/container furnished by the contractor comprising of a complete truck overhaul kit shall have all the required sub-kits to do FOUR (4) RAIL CAR TRUCKS. Each master pallet/container used by the contractor shall be of a design that can be easily handled by a fork lift. If a pallet is used with all the sub-kit boxes placed atop the pallet, then the contractor shall use stretch wrap plastic, in a suitable amount of layers, to overall wrap the boxes for secure shipment. Each master pallet/container shipped to the CTA shall have the following information on at least two (2) of its outside surfaces in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT – (4) TRUCKS"

Contractor's Name & Kit Part Number Information

- 3.5 Each box/container used by the contractor shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box/container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.
- 3.6 All components or parts provided in the required sub-kits shall be packaged in their original equipment manufacturer (OEM) packaging, whenever possible, for part identification and protection against possible shipping damage. Each component or part furnished in a given sub-kit shall be labeled with its applicable CTA Item Number. If a given component or part in a sub-kit is difficult to label, then its packaging shall be labeled with its applicable CTA Item Number. In addition, contractor shall also include quantity information in the labeling requirements for a given component or part in a furnished sub-kit.
- 3.7 All like fasteners and loose parts shall be furnished packaged in a given sub-kit per the labeling requirements mentioned in Section 3.6 above. There shall be no loose parts whatsoever furnished inside the box/container of a given sub-kit.
- 3.8 Each component or part furnished in the kit shall be ready for installation on a rail car's truck. No type of alteration or modification of a given component or part furnished, or to the rail car's truck, shall be allowed.
- 3.9 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-002, found in the Contract Documents.

3. REQUIREMENTS (Continued)

- 3.10 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-002 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.11 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-002 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.12 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-002 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3.13 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the overhaul kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-002 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.

4. <u>CERTIFICATIONS & TEST REPORTS (Continued)</u>

4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. DELIVERY REQUIREMENTS

6.1 Contractor shall ship each complete overhaul kit to the following CTA facility:

Chicago Transit Authority (CTA) Skokie Rail Shops – Storeroom 34 3701 W. Oakton St. Skokie, IL 60076

6.2 Each overhaul kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit Quantity

6. <u>DELIVERY REQUIREMENTS (Continued)</u>

Bill of Material (BOM) Checklist w/Quantities CTA Purchase Order Number CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

6.3 If possible, the CTA would like to receive on one (1) pallet/container having all the necessary kits to perform the overhaul operation on a total four (4) rail car trucks. (One (1) married pair of CTA rail cars).

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar overhaul similar kits as described herein, for transit/transportation companies. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/03/12

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, MASTER CONTROLLER, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8157-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete master controller overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The initial original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car master controller was General Electric (GE) Company.

3. REQUIREMENTS

- 3.1 Each complete master controller overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-010, which shall be found in the Contract Documents.
- 3.2 Two (2) complete kits for two (2) rail cars shall be furnished in one (1) box / container by the contractor. Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid of kits shall be appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each kit's box / container shipped to the CTA shall have the following information on its top outside surface in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT – (2) MASTER CONTROLLER KITS FOR (2) RAIL CARS"

Contractor's Name & Kit Part Number Information

3.3 Each applicable box / container used by the contractor shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box / container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.

3. REQUIREMENTS (Continued)

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-010, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-010 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-010 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-010 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3. REQUIREMENTS (Continued)

3.9 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. <u>CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)</u>

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-010 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. DELIVERY REQUIREMENTS

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. DELIVERY REQUIREMENTS (Continued)

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit/transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/06/12

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, CAM GROUP, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8158-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete cam group overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The initial original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car cam group was General Electric (GE) Company.

3. REQUIREMENTS

- 3.1 Each complete cam group overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-020, which shall be contained in the Contract Documents.
- 3.2 Two (2) complete kits for two (2) rail cars shall be furnished in one (1) box / container by the contractor. Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid of kits shall be appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each kit's box / container shipped to the CTA shall have the following information on its top outside surface in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT - (2) CAM GROUP KITS FOR (2) RAIL CARS"

Contractor's Name & Kit Part Number Information

3.3 Each applicable box / container used by the contractor shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box / container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.

3. REQUIREMENTS (Continued)

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-020, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-020 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-020 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-020 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3. <u>REQUIREMENTS (Continued)</u>

3.9 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-020 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. <u>DELIVERY REQUIREMENTS</u>

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. DELIVERY REQUIREMENTS (Continued)

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit/transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/06/12

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, CAM GROUP CAMS, PLATES, GEARS, & SPACERS, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8156-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete cam group cams, plates, gears, & spacers overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The initial original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car cam group and related parts was General Electric (GE) Company.

3. REQUIREMENTS

- 3.1 Each complete cam group cams, plates, gears, & spacers overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-030, which shall be found in the Contract Documents.
- 3.2 Two (2) complete kits for two (2) rail cars shall be furnished in one (1) box / container by the contractor. Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid of kits shall be appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each kit's box / container shipped to the CTA shall have the following information on its top outside surface in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT – (2) CAM GROUP CAMS, PLATES, GEARS, & SPACERS KITS FOR (2) RAIL CARS"

Contractor's Name & Kit Part Number Information

3.3 Each applicable box / container used by the contractor shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box / container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.

3. REQUIREMENTS (Continued)

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-030, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-030 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-030 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-030 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3. REQUIREMENTS (Continued)

3.9 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-030 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. DELIVERY REQUIREMENTS

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. <u>DELIVERY REQUIREMENTS (Continued)</u>

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit/transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/06/12

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, TRACTION MOTOR, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8161-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete traction motor overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car traction motor was General Electric (GE) Company.

3. REQUIREMENTS

- 3.1 Each complete traction motor overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-040, which shall be found in the Contract Documents.
- 3.2 Each pallet / skid furnished by the contractor shall contain one (1) complete kit, which shall be for a total of eight (8) traction motors. (For one (1) married pair of rail cars). Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid shall have its items appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each pallet / skid shipped to the CTA shall have the following information on at least two (2) of its outside surfaces in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT – (8) TRACTION MOTORS FOR A MARRIED PAIR OF RAIL CARS"

Contractor's Name & Kit Part Number Information

3.3 If applicable, any "loose" items in a given kit shall be appropriately boxed or packaged before being placed atop a given pallet / skid.

3. <u>REQUIREMENTS (Continued)</u>

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-040, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-040 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-040 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-040 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3. <u>REQUIREMENTS (Continued)</u>

3.9 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-040 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. <u>DELIVERY REQUIREMENTS</u>

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. DELIVERY REQUIREMENTS (Continued)

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit/transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/06/12

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, AIR CONDITIONING UNIT, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8153-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete air conditioning unit overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The current original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car air conditioning unit is Albatros, S.L. of Madrid, Spain.

3. REQUIREMENTS

- 3.1 Each complete rail car air conditioning unit overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-050, which shall be found in the Contract Documents.
- 3.2 One (1) complete kit for one (1) rail car shall be furnished per pallet/skid. Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid shall have its kit appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each pallet / skid shipped to the CTA shall have the following information on at least two (2) of its outside surfaces in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT – (1) A/C UNIT"

Contractor's Name & Kit Part Number Information

3.3 If applicable, each box / container used by the contractor for a kit shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box / container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.

3. <u>REQUIREMENTS (Continued)</u>

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers / suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-050, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-050 for that given part. CTA will make available the latest version / revision of any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-050 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-050 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3.9 If, during the course of a given awarded contract, the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-050 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. <u>DELIVERY REQUIREMENTS</u>

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. DELIVERY REQUIREMENTS (Continued)

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit / transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/03/12

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, CONTROL GROUP CONTACTORS, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8154-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete control group contactor overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The initial original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car control group contactors was General Electric (GE) Company.

3. REQUIREMENTS

- 3.1 Each complete rail car control group contactor overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-060, which shall be found in the Contract Documents.
- 3.2 Two (2) complete kits for two (2) rail cars shall be furnished in one (1) box / container by the contractor. Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid of kits shall be appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each kit's box / container shipped to the CTA shall have the following information on its top outside surface in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT – (2) CONTROL GROUP CONTACTOR KITS FOR (2) RAIL CARS"

Contractor's Name & Kit Part Number Information

3.3 Each applicable box / container used by the contractor shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box / container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-060, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-060 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-060 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-060 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3.9 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-060 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. <u>DELIVERY REQUIREMENTS</u>

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. <u>DELIVERY REQUIREMENTS (Continued)</u>

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit/transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/06/12

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, HYDRAULIC POWER CONTROL UNIT (HPCU), COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8179-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete hydraulic power control unit (HPCU) overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The initial original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car HPCU was New York Air Brake (NYAB) Company.

3. REQUIREMENTS

- 3.1 Each complete HPCU overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-080, which shall be contained in the Contract Documents.
- 3.2 Two (2) complete kits for two (2) rail cars shall be furnished in one (1) box / container by the contractor. Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid of kits shall be appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each kit's box / container shipped to the CTA shall have the following information on its top outside surface in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT - (2) H.P.C.U. KITS FOR (2) RAIL CARS"

Contractor's Name & Kit Part Number Information

3.3 Each applicable box / container used by the contractor shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box / container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.

3. <u>REQUIREMENTS (Continued)</u>

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-080, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-080 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-080 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-080 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3.9 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-080 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. <u>DELIVERY REQUIREMENTS</u>

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. <u>DELIVERY REQUIREMENTS (Continued)</u>

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit/transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

HHP / hhp - Initial Specification - 08/20/12

DETAIL SPECIFICATION FOR

KIT; THRESHOLD GUIDE, SELF-CLEANING, COMPLETE, RAPID TRANSIT RAIL CAR APPLICATION

CTA SPECIFICATION NO. 9757-12

1. SCOPE

1.1 This specification will cover the requirements for a contractor to furnish and deliver a complete, self-cleaning, threshold guide kit used to divert debris from the threshold track of the sliding side passenger doors on Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The latest version or revision of an applicable specification, drawing, standard, regulation, etc. at the time a given Invitation for Bid (IFB) is posted shall apply.

3. DRAWINGS

- 3.1 The following CTA Rail Engineering / Technical Services Department drawings make up a part of this specification and are referenced herein.
 - CTA Drawing R-2-740 Right Side Pocket Guide
 - CTA Drawing R-2-741 Left Side Pocket Guide
 - CTA Drawing R-1-629 Filler Bar
 - CTA Drawing R-1-630 Disc Threshold Guide
 - CTA Drawing R-2-742 Oval Threshold Guide

4. REQUIREMENTS

- 4.1 Each kit furnished shall contain the following items:
 - One (1) Oval Threshold Guide per CTA Drawing R-2-742
 - Two (2) Disc Threshold Guides per CTA Drawing R-1-630
 - One (1) Right Side Pocket Guide per CTA Drawing R-2-740
 - One (1) Left Side Pocket Guide per CTA Drawing R-2-741
 - Two (2) Filler Bars per CTA Drawing R-1-629

- 4.2 Material Kit components shall be fabricated from the following materials.
- 4.2.1 The pocket guides shown on CTA Drawing R-2-740 and R-2-741 shall be fabricated from 16 GA AISI Type 304 stainless steel sheet having a maximum of 0.08% carbon content and also AISI Type 304 stainless steel bar stock that meets ASTM A 484/A 484M. It is recommended that AISI Type 304L be used in this application. The stainless steel sheet shall meet ASTM A 666.
- 4.2.2 As indicated on CTA Drawing R-1-629, the filler bars shall be fabricated from AISI Type 304 stainless steel bar stock that meets ASTM A 484/A 484M.
- 4.2.3 The disc threshold guide shown on CTA Drawing R-1-630, and the oval threshold guide shown on CTA Drawing R-2-742, shall be fabricated from AISI Type 304 stainless steel bar stock that meets ASTM A 484/A 484M.
- 4.2.4 The use of any alternate material(s) to that specified shall not be allowed without prior written approval from the CTA Manager of Rail Technical Services.
- 4.3 Welds The welding practices used to fabricate the pocket guide shown on CTA Drawing R-2-740 and R-2-741 shall be in accordance with the recommended practices outlined in the American Society for Metals (ASM) Source Book on Stainless Steel, under the section titled "Resistance Welding of Stainless Steel".
- 4.4 All parts shall be free of distortion, sharp edges, burrs, or any other defects that can be harmful to the installer, or can adversely affect the installation and/or operation of the part.
- 4.5 All parts shall be stamped with the manufacturer's name and part number.
- 4.6 All parts shall be packaged together to make a kit. The kit's containers shall be sturdy cardboard boxes sized to fit all items, and of a design proven to support the total weight of the kit without rupture, sagging, or bulging when stacked on top of each other a minimum of four (4) high.
- 4.6.1 Packaging shall be such that all steel components are protected and tightly packed to prevent possible damage during shipping and handling.

5. MARKINGS

5.1 The kit's cardboard container shall be marked in accordance with the requirements specified in the Special Conditions section of the Contract Documents.

6. WARRANTY & PRODUCT SUPPORT

6.1 The original equipment manufacturer (OEM) standard warranty against a potential defect in material and workmanship and the OEM standard product support service shall apply for each kit furnished.

7. SAMPLE KIT SUBMISSION

7.1 For each contract, a pilot or sample kit shall be furnished by the contractor for CTA Technical Services Department review and written approval by the CTA Manager of Rail Technical Services before any mass production commences.

8. <u>DELIVERY REQUIREMENTS</u>

- 8.1 Contractor shall ship the required kits to the CTA location stated in the Contract Documents for a given contract.
- 8.2 Each shipment of kits furnished by the contractor to the CTA shall include a complete packing list. Each packing list shall include, but not necessarily be limited to, the following information.

Description of Item
Quantity
CTA Item Number (If applicable)
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can cause shipment rejection and/or delay in payment.

9. ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS

9.1 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

DISTRIBUTION: Mgr., Technical Services - Rail

GM / gm (R.T.S) - Initial Specification - 08/07/08 HHP / hhp - 1st Revision - 08/07/12

DETAIL SPECIFICATION FOR

SENSOR; PROXIMITY, FLUSH MOUNTED, THREADED CYLINDRICAL BODY

CTA SPECIFICATION NO. 4664-12 CTA ITEM NO. 5143206

1. SCOPE

1.1 This specification will cover the requirements for a contractor to furnish and deliver a flush mounted proximity sensor having a fully threaded cylindrical metal body that is used for control group movement monitoring in various series of rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The proximity sensor described in this specification is used to monitor movement in the propulsion control group located underneath the car body of Series 2600 and 3200 rapid transit rail cars.

3. REQUIREMENTS

- 3.1 Contractor shall furnish and deliver, as and if requested, a proximity sensor that has been tested and approved by the CTA under CTA Item Number 5143206, under the terms of a given contract.
- 3.2 Each proximity sensor furnished shall be a PNP normally open unit.
- 3.3 Each proximity sensor unit furnished shall be equipped with one (1) light emitting diode (LED) for indicating output energized.
- 3.4 Each proximity sensor unit furnished shall have the following characteristics or features:

Temperature Range -40° C to a minimum of +110°C

Sensing Range 5 mm (0.2 inches)

Ripple Voltage ≤10%

Voltage Range 10 VDC to 30 VDC

Supply Current ≤10 mA

Load Current (Max.) 100 mA – 200mA

Voltage Drop Across Sensor $\leq 2.4 \text{ V}$ Leakage Current (Max.) 10 µA Switching Frequency 1000 Hz Hysterisis $\leq 15\%$ Temperature Drift $\leq 10\%$

Repeatability 0.5 mm (0.02 inches) Front Cap Material PBTB or equivalent

Metal Body Threading, Full M18

3.5 Each proximity sensor unit furnished shall be equipped with an 18 inches long, 3-conductor, polyurethane material, fixed cable or equivalent. Each conductor shall be terminated with a #10 hole size, tinned brass, crimp-type, insulated ring terminal and shall be labeled with the following markings.

Brown Wire: ++ (positive, positive)

Black Wire: 00 (zero, zero)

• Blue Wire: -- (negative, negative)

- 3.6 Each proximity sensor unit shall include two (2) brass material, nickel-plated, locknuts.
- 3.7 The proximity sensor's design shall include protection against short circuiting, overloading, and possible reverse polarity.
- 3.8 Contractor shall ship each proximity sensor in appropriate packaging to the CTA location stated in the Contract Documents for a given contract.
- 3.9 Each proximity sensor shipment by the contractor to the CTA shall include a complete packing list. Each packing list furnished shall include, but not necessarily be limited to, the following information.

Description of Item
Quantity
Manufacturer's Name & Part Number
CTA Item Number
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

4. APPROVED & NON-APPROVED CTA ITEM NUMBER INFORMATION

- 4.1 Due to the critical nature of the proximity sensor's function, contractor shall only furnish and deliver CTA approved items listed in the Contract Documents under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.
- 4.2 Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.
- 4.3 Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.
- 4.4 Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.
- 4.5 Complete technical information shall be furnished with each proximity sensor submitted by the contractor for possible CTA approval.

5. <u>EXAMPLE(S) OF CTA APPROVED PROXIMITY SENSOR(S)</u>

- 5.1 Example(s) of proximity sensor(s) CTA has tested and approved for use in its intended application is/are:
 - Altech Brand. Part Number 9964-6032-18
 - Contrinex Brand, Part Number DW-AD-603-M18-718

See the Contract Documents for possible other proximity sensors that have been CTA tested and approved for use in their intended application.

6. ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS

6.1 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

Distribution: Mgr., Technical Services - Rail

FKH / dsd - Initial Specification - 06/06/00 HHP / hhp - 9th Revision - 07/20/12

DETAIL SPECIFICATION FOR

ENCODER; INCREMENTAL, CAM POSITION INDICATION, RAPID TRANSIT RAIL CAR APPLICATION

CTA SPECIFICATION NO. 9870-12 CTA ITEM NO. 4240099

1. SCOPE

1.1 This specification will cover the requirements for a contractor to furnish and deliver an incremental encoder which indicates cam positions on Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

- 2.1 The purpose of the incremental encoder is to send an electrical signal to the computer-cam-magnetic (CCM) system to indicate cam positions.
- 2.2 The CTA is not in the possession of any drawing or tooling necessary for the fabrication of the incremental encoder described herein. If a potential contractor chooses to fabricate an incremental encoder instead of furnishing an already CTA tested and approved incremental encoder listed in the Contract Documents, then a sample incremental encoder will be made available for viewing by the potential contractor for reverse engineering purposes through the CTA's Rail Engineering & Technical Services Department. Contact the Procurement Administrator or Buyer listed in the Contract Documents for initial additional information concerning the viewing of an approved incremental encoder.

3. REQUIREMENTS

- 3.1 Contractor shall furnish and deliver, as and if requested, an incremental encoder under CTA Item Number 4240099 for the term of a given contract.
- 3.2 Each incremental encoder furnished shall be equal in form, fit, and function to that of a CTA tested and approved incremental encoder that is listed in the Contract Documents.

- 3. REQUIREMENTS (Continued)
- 3.3 Each incremental encoder furnished shall have a temperature rating of -40°C to +105°C (-40°F to 221°F).
- 3.4 Each incremental encoder furnished shall consist of a protective housing, a light emitting diode (LED), a photo sensor, an electronics board, a bearing housing, a mask, a glass coded disk connected to an input shaft, and a standard seven (7) pin, MIL-C-5015 box mount, circular receptacle with solder contacts, equal to Amphenol® Part Number MS3102R16S-1F, with insert arrangement 16S-1.
- 3.5 Each incremental encoder furnished shall have a permanent manufacturer's label attached on its outer surface. All printing on the label shall be legible and permanent. The manufacturer's label shall include, but not necessarily limited to, the following information.

Manufacturer's Name and/or Logo
Manufacturer's Address & Phone Number
Manufacturer's Model and/or Part Number
The Encoder's Manufacturing Date in "MM/DD/YY" Format
The Encoder's Serial Number
The CTA Item Number of "4240099"

- 3.6 Each incremental encoder furnished shall be properly packaged for shipping, handling, and storage.
- 3.7 Each incremental encoder required shall be shipped to the CTA location stated in the Contract Documents for a given contract.
- 3.8 Each shipment of incremental encoders by the contractor to the CTA shall include a complete packing list. Each packing list shall include, but not necessarily be limited to, the following information.

Description of Item
Quantity
Manufacturer's Name and Part Number
CTA Item Number
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

4. EXAMPLE

4.1 An example of an incremental encoder that meets the requirements of this specification and has been CTA tested and approved for use in its intended application is

Model Number H25E-F1-SS-30-ABZ-28V/V-SM16-S
Part Number 01002-10302

Manufactured by BEI, Inc., Industrial Encoder Div., Goleta, CA 93117

See the Contract Documents for possible other incremental encoders that have been CTA tested and approved for their intended application.

5. APPROVED AND NON-APPROVED ITEM NUMBER INFORMATION

- 5.1 Contractor shall only furnish and deliver CTA approved items listed in the Contract Documents under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.
- 5.2 Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.
- 5.3 Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.
- 5.4 Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

6. REVISION TO AN APPROVED INCREMENTAL ENCODER

6.1 If a given incremental encoder that has been CTA tested and approved undergoes any type of revision by its manufacturer, then the manufacturer shall inform the CTA of the revision. Each revision made shall require re-approval by the CTA, following Sections 5.2 through 5.4 above.

7. <u>ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS</u>

7.1 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents

Distribution: Mgr., Technical Services, Rail

EM / em - Initial Specification - 08/10/09 HHP / hhp - 2nd Revision - 07/26/12

DETAIL SPECIFICATION FOR

TRACK ASSEMBLY; COMPLETE, SIDE PASSENGER DOORS, RAPID TRANSIT RAIL CAR APPLICATION

CTA SPECIFICATION NO. 9173-12 CTA ITEM NO. 4152770

1. SCOPE

1.1 This specification will cover the requirements for a contractor to furnish and deliver a complete door track assembly used in Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

- 2.1 The door track assembly is used to support the side passenger entry/exit doors and allow the doors to slide open and slide close.
- 2.2 Each rail car side passenger door requires two (2) complete track assemblies.

3. REQUIREMENTS

- 3.1 Each door track assembly furnished shall consist of the following items.
 - One (1) 48" long welded track assembly, with four (4) 1/2"-13 steel mounting studs that protrude 2-1/4" from the top.
 - Two (2) matching zinc-plated steel hex nuts per stud.
 - One (1) matching zinc-plated steel jam nut per stud.
 - Two (2) matching stainless steel flat washers per stud.
 - One (1) 31" long bearing retainer cage with ball bearings.
 - One (1) 17-5/8" long door hanger bar.
 - One (1) 5/16"-18 zinc plated steel cap screw inserted through the top at the end that is installed at the center of the door opening, and a threaded steel bushing attached to the cap screw inside the track to act as a stop.
 - One (1) ½"-13 special set screw with 3/8" dia. x ½" dog, 1/4" hex drive, 3" overall length. Ellcon-National, Inc. part number EN610202 (3200) or equivalent.

- 3.2 Each door track assembly furnished under this specification shall be equal in form, fit, and function to the rail car's original equipment manufacturer (OEM) door track assembly from Ellcon-National, Inc. under their Part Number EN106193, and be completely interchangeable with existing door track assemblies found in Series 2600 rail cars in operation at the CTA.
- 3.3 Each door track assembly furnished shall be individually boxed. Hardware items such as nuts and washers shall be furnished in a re-closable, see-through, plastic bag placed inside the box.
- 3.4 The standard OEM warranty and OEM product support shall apply for each door track assembly furnished.
- 3.5 Each complete door track assembly furnished shall be shipped to the CTA location stated in the Contract Documents for a given contract.
- 3.6 Each shipment of door track assemblies shipped to the CTA by the contractor shall include a complete packing list. Each packing list furnished shall include, but not necessarily be limited to, the following items.

Description of Item
Quantity

Manufacturer's Name & Part Number
CTA Item Number
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

4. APPROVED AND NON-APPROVED ITEM INFORMATION

4.1 Contractor shall only furnish and deliver CTA approved items under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

5. <u>ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS</u>

5.1 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

Distribution: Mgr., Technical Services-Rail

MD / md - Initial Specification - 04/26/05 HHP / hhp - 5th Revision - 07/25/12

DETAIL SPECIFICATION FOR

REPLACEMENT COMPONENTS & PARTS; VAPOR BRAND

CTA SPECIFICATION NO. 7363-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver replacement Vapor Brand, or a CTA approved technical equivalent, components and parts used to repair and maintain rapid transit rail cars and buses in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The latest version or revision of an applicable specification, drawing, standard, regulation, etc. at the time a given Invitation for Bid (IFB) is posted shall apply.

3. REQUIREMENTS

- 3.1 The contractor shall furnish and deliver, as and if requested, genuine, factory new, Vapor Brand components and parts, or a possible CTA approved technical equivalent, as described in the Contract Documents, or in a Release Form issued against a given contract, under the terms of a given contract.
- 3.2 Each replacement component or part furnished by the contractor under this specification shall be in its original equipment manufacturer (OEM) sealed packaging.
- 3.3 The packaging for each component or part furnished shall have the OEM's name and OEM's part number clearly visible on the packaging's outer surface.
- 3.4 The CTA shall be the final judge of adequate and appropriate identification of each component or part furnished by the contractor under this specification and the decision of the CTA shall be final.
- 3.5 Each replacement component or part furnished by the contractor under this specification shall be covered under the OEM's standard warranty and product support program.

4, <u>DELIVERY REQUIREMENTS</u>

- 4.1 Contractor shall ship the required components and/or parts to the CTA location stated in the Contract Documents for a given contract.
- 4.2 Each shipment of components and/or parts furnished by the contractor to the CTA shall include a complete packing list. Each packing list furnished shall include, but not necessarily be limited to, the following information.

Description of Item(s)
Quantity Information
Manufacturer's Name & Part Number
CTA Item Number (If applicable)
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment to the CTA can result in shipment rejection and/or delay in payment.

5. <u>APPROVED AND NON-APPROVED ITEM INFORMATION</u>

- 5.1 Contractor shall only furnish and deliver CTA approved items listed in the Contract Documents under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.
- 5.2 Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.
- 5.3 Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.
- Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

6. <u>ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS</u>

6.1 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

Distribution: Manager, Bus Technical Services

Manager, Rail Technical Services

PWH - Initial Specification - 1992 HHP / hhp - 8th Revision - 07/19/12

DETAIL SPECIFICATION FOR

SPRINGS; BOLSTER, COIL TYPE, INNER AND OUTER, RAPID TRANSIT RAIL CAR APPLICATION

CTA SPECIFICATION NO. 6794-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver inner and outer, coil type, bolster springs used on trucks of Series 2400, 2600, and 3200 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

- 2.1 The latest version or revision of an applicable specification, drawing, standard, regulation, etc. at the time a given Invitation for Bid (IFB) is posted shall apply.
- 2.2 Outer spring CTA Item Numbers
- 2.2.1 4004565 : 'Blue' color code
- 2.2.2 4004566 : 'Black' color code
- 2.3 Inner spring CTA Item Numbers
- 2.3.1 4004563 : 'Blue' color code
- 2.3.2 4004564 : 'Black' color code

3. <u>REQUIREMENTS</u>

- 3.1 Contractor shall furnish and deliver, as and if requested, inner and/or outer, coil type bolster springs per the requirements presented in this specification and in the Contract Documents for a given contract.
- 3.2 Each coil type, bolster spring furnished by the contractor shall be of new manufacture. Used or refurbished springs shall be rejected by the CTA.

- 3.1 Each outer spring furnished shall be manufactured according to the requirements presented in CTA Drawing R-4-1099.
- 3.2 Each inner spring furnished shall be manufactured according to the requirements presented in CTA Drawing R-4-1100.
- 3.3 Upon request by the CTA, the contractor shall furnish reports and material certifications that verify a given batch of furnished springs were manufactured, tested, and inspected to the requirements presented in a given spring's applicable CTA Drawing.

4. DELIVERY REQUIREMENTS

- 4.1 Contractor shall ship the required springs to the CTA location stated in the Contract Documents for a given contract.
- 4.2 Each shipment of springs by the contractor to the CTA shall include a complete packing list. Each packing list furnished shall include, but not necessarily be limited to, the following information.

Description of Item(s)
Quantity
CTA Item Number(s)
CTA Purchase Order Number
CTA Release Number(s) (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

5. FIRST TIME PRE-PRODUCTION SAMPLE FURNISHING

5.1 If the contractor is a first time furnisher of a given CTA Item Number made from a CTA Drawing, then the contractor shall provide for a pre-production sample or samples of each applicable item for CTA Rail Technical Services Department written approval before any mass production commences. The applicable CTA Procurement Administrator or Buyer shall be the initial contact person and then the coordinator of the CTA Item Number sample approval process. See the Contract Documents for the name of the CTA Procurement Administrator or Buyer that is handling a given contract.

6. ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS

6.1 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

DISTRIBUTION: Mgr., Rail Technical Services

Coord., Quality Inspection

Initial Specification - 7/9/90 HHP / hhp - 6th Revision - 07/19/12

DETAIL SPECIFICATION FOR

REVERSER; COMPLETE, TRACTION MOTOR ROTATION CONTROL, RAPID TRANSIT RAIL CAR APPLICATION

CTA SPECIFICATION NO. 8171-12 CTA ITEM NO. 5153242

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete reverser unit used in Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. <u>BACKGROUND INFORMATION</u>

2.1 The reverser unit is an electro-mechanical device used to control the rotational direction of an electric traction motor found in rapid transit rail cars.

3. ITEM REQUIREMENTS

- 3.1 Contractor shall furnish and deliver, as and if requested, a complete reverser unit per the requirements presented in this specification and in the Contract Documents for the term of a given contract.
- 3.2 Each reverser unit furnished shall meet the following requirements or have the following features.
- 3.2.1 The reverser shall be light weight and compact in its design.
- 3.2.2 The reverser shall be designed for operation in a high vibration, high shock, and high temperature environment.
- 3.2.3 The reverser shall be able to conduct electrical currents up to 2000 amps.
- 3.2.4 The reverser shall be able to withstand an electric potential of up to 1000 DC volts.

3. <u>ITEM REQUIREMENTS (Continued)</u>

- 3.2.5 The reverser shall be able to simultaneously switch electrical current to multiple rail car traction motors.
- 3.2.6 The reverser shall be able to accept a control voltage in the range of 25 DC volts to 50 DC volts.
- 3.2.7 The reverser shall incorporate electronic position sensors and monitoring capability.
- 3.2.8 The reverser shall have a spark extinguish chamber.
- 3.2.9 The reverser shall have replaceable contactor tips.
- 3.2.10 The reverser shall have a proven track record in rapid transit rail car applications. The CTA reserves the right to request documentation from the potential contractor that the requirement presented in this section has been met. The decision of the CTA shall be final.
- 3.2.11 The reverser shall be furnished complete, ready for installation in a CTA Series 2600 rapid transit rail car.

4. DELIVERY REQUIREMENTS

- 4.1 Contractor shall ship the required reversers to the CTA location listed in the Contract Documents for a given contract.
- 4.2 Each reverser furnished shall be appropriately packaged in order to minimize potential damage due to shipping and handling.
- 4.3 Each shipment of reversers furnished by the contractor and shipped to the CTA shall include a complete packing list. Each packing list furnished shall include, but not necessarily be limited to, the following items.

Description of Item
Quantity
Manufacture's Name & Part Number
CTA Item Number
CTA Purchase Order Number
CTA Release Number (If applicable)

4. <u>DELIVERY REQUIREMENTS (Continued)</u>

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

5. <u>WARRANTY & PRODUCT SUPP</u>ORT

5.1 The standard warranty and product support package of the original equipment manufacturer (OEM) shall apply for each reverser furnished.

6. EXAMPLE REVERSER

6.1 An example of a reverser which meets the requirements presented in this specification and has been CTA tested and approved for use in its intended application is

Part Number 22375 by Bey Electronics, Corp., Paterson, NJ 07503

See the Contract Documents for other possible reversers that meet the requirements of this specification and have been CTA tested and approved for use in its intended application.

7. APPROVED & NON-APPROVED ITEM NUMBER INFORMATION

7.1 Contractor shall only furnish and deliver CTA approved items listed in the Contract Documents under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

8. ADDITIONAL INFORMATION FOR POTENTIAL CONTRACTORS

8.1 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

HHP / hhp - Initial Specification - 08/03/12

CHICAGO TRANSIT AUTHORITY

DETAIL SPECIFICATION FOR

KIT; OVERHAUL, DOOR RELAYS & SWITCHES, COMPLETE, CTA 2600 SERIES RAIL CAR

CTA SPECIFICATION NO. 8155-12

1. SCOPE

1.1 This specification will describe the requirements for a contractor to furnish and deliver a complete door relays & switches overhaul kit for Series 2600 rapid transit rail cars in operation at the Chicago Transit Authority (CTA).

2. GENERAL INFORMATION

2.1 The initial original equipment manufacturer (OEM) for the CTA Series 2600 rapid transit rail car door relays & switches was Vapor Corporation.

3. REQUIREMENTS

- 3.1 Each complete rail car door relays & switches overhaul kit, hereafter simply referred to as 'kit', shall include the parts in the quantities listed in CTA Document R-BOM-070, which shall be found in the Contract Documents.
- 3.2 Two (2) complete kits for two (2) rail cars shall be furnished in one (1) box / container by the contractor. Each pallet / skid used by the contractor shall be of a design that can be easily handled by an appropriate fork lift / lift truck. Each pallet / skid of kits shall be appropriately wrapped in clear plastic stretch wrap for shipping purposes. Each kit's box / container shipped to the CTA shall have the following information on its top outside surface in reasonably sized characters and easily readable:

"CTA 2600 OVERHAUL KIT – (2) DOOR RELAYS & SWITCHES KITS FOR (2) RAIL CARS"

Contractor's Name & Kit Part Number Information

3.3 Each applicable box / container used by the contractor shall be suitably sized and have the appropriate bursting strength to properly carry the weight of its internal contents. Any remaining volume inside each box/container furnished after all of its contents have been added shall be occupied by appropriate filler material in order to prevent content shifting during shipping and handling.

3. REQUIREMENTS (Continued)

- 3.4 Each kit furnished by the contractor shall be ready for installation on a given Series 2600 rail car. No type of alteration or modification of a given component or part furnished, or to a given rail car, shall be allowed.
- 3.5 For each kit furnished, contractor shall only furnish CTA approved items for a given CTA Item Number. Approved manufacturers/suppliers for a given CTA Item Number shall be listed in CTA Document R-BOM-070, found in the Contract Documents.
- 3.6 For a given component or part that has no CTA approved manufacturer listed, the given component or part shall meet the requirements of its applicable CTA Item Number Description, CTA Specification and/or CTA Drawing listed in CTA Document R-BOM-070 for that given part. CTA will make available any such needed CTA Specification or CTA Drawing to the awarded contractor.
- 3.7 Potential contractors proposing a deviation or supersession to a part number that is listed in CTA Document R-BOM-070 shall provide proof that the proposed deviation or supersession are those of the approved manufacturer associated with the given part. The proof documentation shall be on the approved manufacturer's letterhead, executed at the corporate level, and state that the approved manufacturer will honor all warranties and product support as required for the given part supplied.
- 3.8 Contractor shall only furnish CTA approved items listed in CTA Document R-BOM-070 under the terms of a given contract. Should a potential contractor wish to offer for CTA consideration an alternate item not currently approved, the potential contractor shall first contact the CTA Procurement Administrator or Buyer for details on the CTA's item approval process. The time required for reviewing and/or testing each item offered will vary and depend on applicable procedures. Approval of an item does not guarantee an order under a currently proposed or future contract. Upon award of a contract, each item furnished by the contractor shall be identical to the item that was approved.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall be at no cost to the CTA.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall become property of the CTA and will not be returned to the contractor.

Any submitted sample(s) furnished by the contractor for possible CTA approval shall not reduce the quantity count of any CTA order with the contractor.

3. REQUIREMENTS (Continued)

3.9 If during the course of a given awarded contract the contractor encounters a problem manufacturing or procuring a given part in the kit that will result in any type of delay in supplying the kit under the terms of a given contract, then the contractor is to immediately contact the applicable CTA Procurement Administrator of the problem, who will in turn contact appropriate CTA Technical & Maintenance Managers.

4. CERTIFICATIONS & TEST REPORTS (IF APPLICABLE)

- 4.1 The contractor shall include all material certifications, test reports, mill heat reports, Records of Conformance, and any other certificate, report, or paperwork required per a given CTA Item Number description, CTA Specification, or CTA Drawing listed in CTA Document R-BOM-070 found in the Contract Documents.
- 4.2 Each applicable document required and furnished shall identify the specific CTA Item Number it is associated with.
- 4.3 All required documentation shall be packaged in a re-closable plastic pouch. The plastic pouch shall be labeled "MATERIAL REPORTS", and shall be placed within each given kit that contains the part the documentation is associated with.

5. WARRANTY

5.1 Contractor shall warrant each component or part furnished for a given kit against any defect in material or workmanship for a period of one (1) year after a given kit has been delivered to the CTA. Any defective component or part furnished by the contractor during the warranty period shall be replaced at no cost to the CTA. This warranty shall include the labor to remove and replace a given defective part as well as all shipping costs. See the Contract Documents for possible additional warranty requirements.

6. DELIVERY REQUIREMENTS

6.1 Contractor shall ship each complete kit to the following CTA facility:

Chicago Transit Authority (CTA)
Skokie Rail Shops – Storeroom 34
3701 W. Oakton St.
Skokie, IL 60076

6. <u>DELIVERY REQUIREMENTS (Continued)</u>

6.2 Each kit shipment to the CTA shall include a complete packing list. Each packing list furnished for a given shipment shall include, but not necessarily be limited to, the following information.

Description of Kit
Quantity
Bill of Material (BOM) Checklist w/Quantities
CTA Purchase Order Number
CTA Release Number (If applicable)

Failure by the contractor to furnish a complete packing list for a given shipment can result in shipment rejection and/or delay in payment.

7. FINAL REQUIREMENTS & INFORMATION FOR POTENTIAL CONTRACTORS

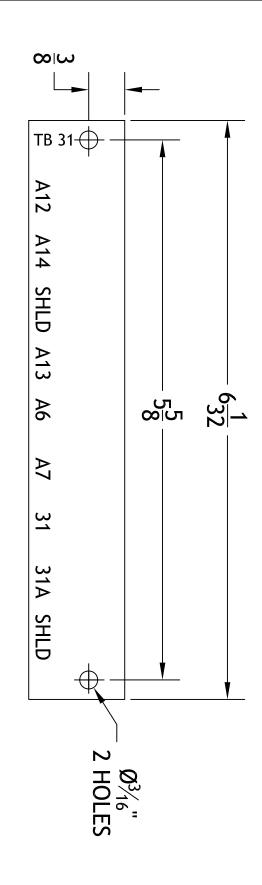
- 7.1 Potential Contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, previous verifiable experience creating same or similar kits as described herein for public transit/transportation entities. In addition, potential contractors shall state in their bid response package, or within five (5) calendar days after being so requested by the CTA, a list of the names, addresses, and contact information of at least three (3) previous customers as references.
- 7.2 Potential contractors requiring any additional information shall contact the Procurement Administrator or Buyer whose name is stated in the Contract Documents. Potential contractors requiring additional information from a person or persons potentially listed in the Special Conditions section of the Contract Documents must route their request through the Procurement Administrator or Buyer. Potential contractors who contact any CTA personnel other than the Procurement Administrator or Buyer during the open bidding period will be considered to be in violation of the provisions set forth in the Contract Documents.

MD, CH / md - Initial Specification - 02/08/08 HHP / hhp - 1st Revision - 08/06/12

APPENDIX F

CTA DRAWINGS

- Truck Overhaul Drawings
- Door Threshold Drawings
- Carbody Springs Drawings

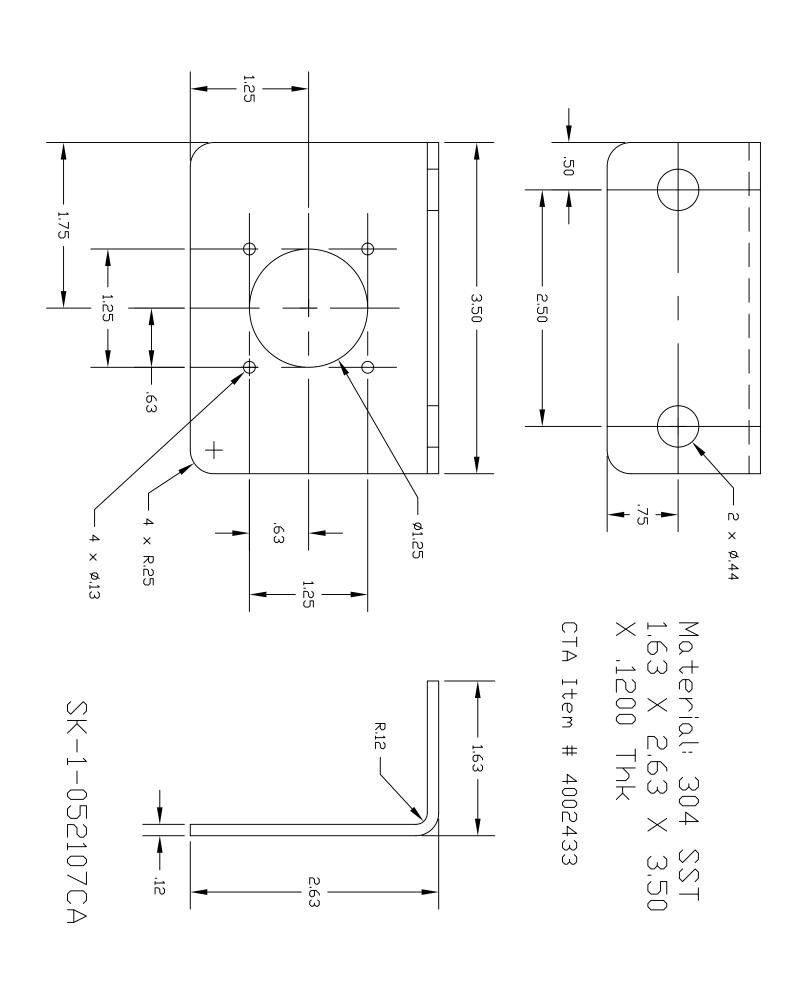


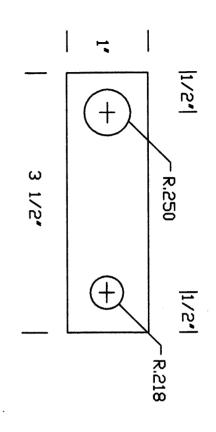
MATERIAL: FLAME RESISTANT LAMINATE, .31" THICK

MARATHON SPECIAL PRODUCTS P/N: MS-812-XXXPFR-9-1A

NOTE: THE MARKER STRIP SHALL BE WHITE WITH BLACK LETTERING.

MARKER STRIP AND TERMINAL BLOCK CAR SERIES: 2600, 3200 ITEM # 3072614

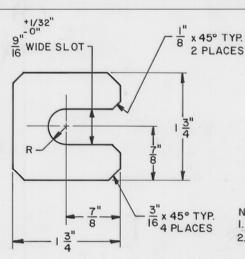




Material: 125" Stainless Steel

SKR-1-080805CA





NOTE:

I.) REMOVE ALL SHARP EDGES AND BURRS.

2.) TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS: ± 1/32"
ANGLES: ± 1°

SHIM: LONGITUDINAL STOP, FOR MOUNTING CURRENT COLLECTOR BEAM TO TRUCK CARS: 2401-2600, 2601-3200 C.T.A. LOT NO. 4002673, S.R. 42

MATERIAL: HOT DIPPED GALVANIZED STEEL SHEET, # IIGA.(0.123")

REF. : C.T.A. BULLETIN RM-12-031

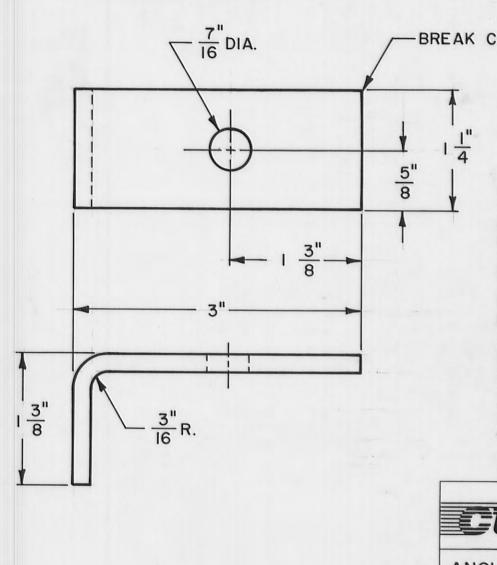


Engineering & Maintenance Division Equipment Engineering and Maintenance Department

SHIM: LONGITUDINAL STOP, FOR MOUNTING CURRENT COLLECTOR BEAM TO TRUCK CARS: 2401-2600, 2601-3200

Drawn M.D. Date 5-28-87 Approved 0.1 R-I-1122 Checked 74 MANAGER, EQUIP, ENG. & MAINT DIRECTOR, EQUIPMENT ENG.

FOR METRIC EQUIVALENT SEE WEGMANN DWG. 4.4513.60.001.019



BREAK CORNERS TYP.

ANGLE:CLEAT BLOCK HOLD DOWN, ELECTRIC CABLE INSTALLATION TWO REQUIRED PER TRUCK CAR SERIES: 2600 C.T.A. LOT NO. 5142628

MATERIAL: .187" ASTM A36

NOTE:

- I) REMOVE DRAG EDGES INCLUDING HOLE, PART MUST BE FLAT.
- 2) REFER TO BUDD P/L 3-6-II
- 3) TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL ± 1/16" ANGULAR ± 2°
- 4) ASSEMBLE WITH LOT NO'S .: 5142632 ,4002642 , AND 5142636



Rail Vehicle Maintenance Division Quality Improvement-Rail Department

ANGLE: CLEAT BLOCK HOLD DOWN, ELECTRIC CABLE INSTALLATION CAR SERIES 2600

Drawn NAG (NT) Scale FULL Date 3/19/89

Checked M. Dainhe

TECHNICAL SERVICES

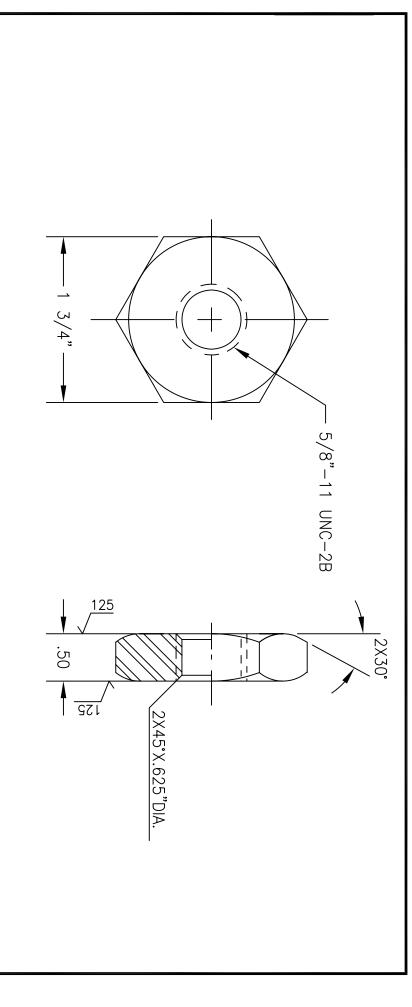
Approved

MANAGER, QUALITY IMPROVEMENT

R-I-1149

NEXT

ORIGINAL ON BUDD P/N A87-84033



<u>C.T.A. LOT NO.</u> 4181233

<u>MATERIAL:</u> COLD DRAWN STEEL AISI C-1045

240/300 BRINELL HEAT TREATED TO

PROTECTIVE COATING:

COATING PER ASTM B 695. ZINC PLATED WITH CHROMATE

UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES

TOLERANCES : ANGLES ±
FRACTIONS: ±
DECIMALS: .XX ±

OR GEOMET (ASTM F 1136 & DACROMET 320, DACROMET 320 LC, ALTERNATE PROTECTIVE COATINGS:

RIVET & BOLT MARGIN: ±.05 BEND RADII: ±.02 ON .03 & .06 ±.03 ON .09 & GREATER

SHEET METAL CORNER RADII:
INT .19 EXT .25
.16 .00

Manager, Technical Services

BASED ON DWG. PCC 1526 ASTM F 1136M).

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5







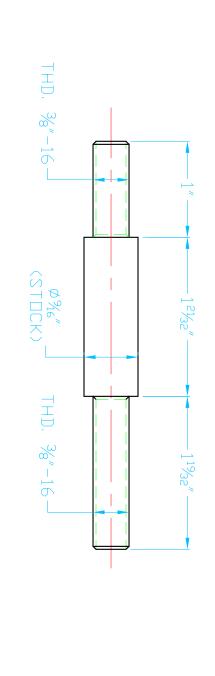


REV. 1: ADDED ASTM B 695 TO PROTECTIVE COATING NOTE, ADDED ALTERNATE PROTECTIVE COATINGS OF DACROMET 320, DACROMET 320 LC, & GEOMET. M.D./G.M. -3/8/10

ENGINEERING RAIL OPERATIONS ጵ TECHNICAL SERVICES

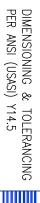
SERIES: TRACK BRAKE SUSPENSION 2400, 2600, 3200

Drawn H.L Grant Macey Checked_2 Scale_ Approved Chair of he Hegating 3/25/10 Next : R-1-1112 Date 1-7-98 R-1-1184 KEN.



OR EQUIVALENT MATERIAL: AISI 1040, CF STEEL ROUND

NOTE: BREAK ALL SHARP EDGES



UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES

TOLERANCES:
ANGLES ±.5°
FRACTIONS: ±1/64
DECIMALS: .XX ±.01
DECIMALS: .XXX ±.005

RIVET & BOLT MARGIN: ±.05

BEND RADII: ±.03 ON .03 & .06

±.03 ON .09 & GREATER Chec

SHEET METAL CORNER RADII:

INT .19

EXT .25

.16

Draw Drawn_









ENGINEERING & TECHNICAL SERVICES RAIL OPERATIONS

STUD: THREADED, CLEAT BLOCK & ROCK SHIELD CAR SERIES: 2400, 2600, & 3200

C.T.A. ITEM NO. 4002672

Man	necked	awn.
Mandger, Technical Services	ed paul th	C.P.
ices		Scale_
General	Appr	FULL
Manager,	Approved	Date
Engrg 8	Carlo Carlo	
General Manager, Engrg & Technical Services	Me Mi	0/27/
Services	al a	03
Assy.	Next	

R-1-1203

DRAWING NUMBER

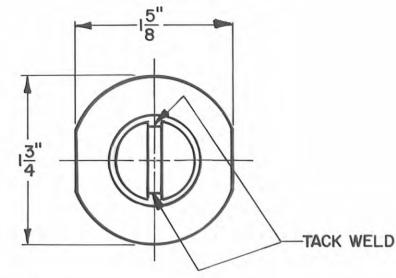
2 / 663

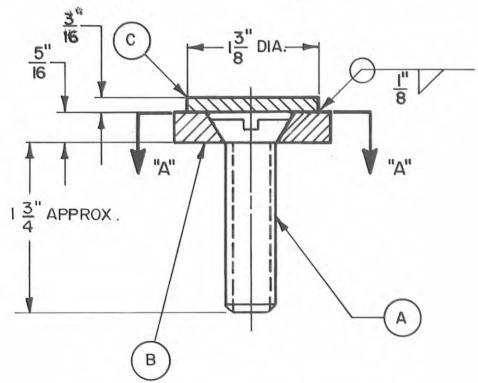
0 PRODUCTS • NEW HOPE, MINNESOT
REORDER BY PART NUMBER 6552

SAFCO PRODUCTS • NEW HOPE, MIN REORDER BY PART NUMBER 6552

S:\Engineer\Data\Drawings\Ctarail\11663

SECTION "A"-"A"





STOP: LONGITUDINAL, FOR CURRENT COLLECTOR BEAM SUPPORT ASSY., USED ON WEGMANN/DUEWAG TRUCKS FOUR REQ'D. PER TRUCK CAR SERIES: 2400, 2600 & 3200 C.T.A. LOT NO. 4003080

MATERIAL:

- 1/2"-13 UNC X 2" LONG, SLOTTED FLAT HEAD, STEEL MACHINE SCREW
- STEEL, FLAT HOT ROLLED MERCHANT QUALITY AISI MIO20 THICKNESS 5/16"
- HADFIELD AUSTENITIC MANGANESE STEEL SHEET 11.5 TO 14% MG. SIZE 3/16" THICK.

BEV 2 3/16" WAS 1/8

REV. 1: ADDED 2600 83200 SERIES; SCREW WAS 1-1/2" LONG; 1-3/4"APPROX. WAS 1-1/2" MIN.; ADDED WEGMANN P/N; M.D. 4-30-93

General Operations Division Maintenance Department

STOP: LONGITUDINAL, FOR CURRENT COLLECTOR BEAM SUPPORT ASSY., USED ON WEGMANN / DUEWAG TRUCKS CAR SERIES: 2400,2600 & 3200

Drawn JC(EAS) Scale FULL Date 5/27/81

Checked Approved . Director, Vehicle Maintenance

Manager, Maintenance

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED

Fractional: Decimal:

± 1/32" AS SHOWN

ORIGINAL WEGMANN P/N:3.4513.60.001.021

SHIM, LONGITUDINAL STOP FOR CURRENT COLLECTOR BEAM ASSY., WEGMANN TRUCK CARS 2401-2600 FOURTEEN TO TWENTY REQUIRED PER TRUCK C.T.A. LOT NO. 4003085, S.R. 42

MATERIAL: STEEL, STRIP, COLD ROLLED, COMMERCIAL QUALITY ASTM A-366 (0.036" THK.) 20 GA. CADMIUM PLATED PER ASTM A-165

DIMENSIONAL TOLERANCES
UNLESS OTHERWISE SPECIFIED
Fractional: ± 1/32"

Decimal: AS SHOWN Angular: ± 1°

cta

Director , Vehicle Maintenance

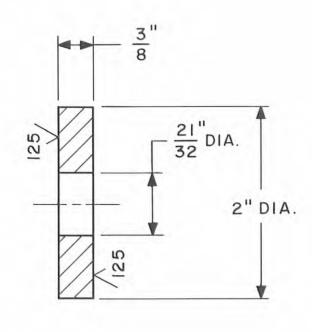
General Operations Division Maintenance Department

DETAIL, SHIM, LONGITUDINAL STOP WEGMANN TRUCK CARS 2401-2600

Manager, Maintenance

Checked from 8-28-81 Tologo R-2-1142

ORIGINAL ON WEGMANN & CO. DWG. NO. 4.4513.60.001.019



SECTION "A-A"

WASHER: FLAT, FOR CURRENT

COLLECTOR BEAM SUPPORT ASSEMBLY

(WEGMANN TRUCK)

4 REQUIRED PER TRUCK

CAR SERIES: 2400, 2600 & 3200

C.T.A. LOT NO. 4003087

MATERIAL: 2"O.D. x 1/2" I.D. (.750" WALL),

COLD DRAWN SEAMLESS MECHANICAL STEEL ROUND TUBING, CONFORMING

TO ASTM A519.

ALT. MATERIAL 1: 2" DIA., COLD FINISHED STEEL

ROUND PER AISI 1018

ALT. MATERIAL 2: 3/8" THICK, LOW CARBON

STEEL PLATE (SEE NOTE 3)

NOTES:

- I. WASHER TO BE FLAT AND FREE OF DRAG EDGES AND BURRS.
- 2. CADMIUM OR ZINC PLATE PER ASTM B766, CLASS 25, TYPE II OR ASTM B633, SC4, TYPE II RESPECTIVELY.
- 3. CLEAN FLAME CUT OF O.D. IS PERMISSIBLE WHEN FABRICATING FROM 3/8" PLATE.

REV. I: REDRAWN, ADDED 2600 & 3200 SERIES, CORRECTED MATERIAL WALL THICKNESS, ADDED NOTES, ADDED ALT. MATERIAL AND ZINC PLATING, UPDATED CADMIUN PLATE NOTE, M.D. (MES)10-18-93

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES

TOLERANCES: ANGLES $\pm \sim$ FRACTIONS: \pm 1/32 "
DECIMALS .XX $\pm \sim$ DECIMALS .XXX $\pm \sim$ RIVET & BOLT EDGE MARGIN \pm .05

 \pm .03 ON .09 & GREATER SHEET METAL CORNER RADII

INT .19 EXT .25 .16 .00

BEND RADII .01 ON .03 & .06



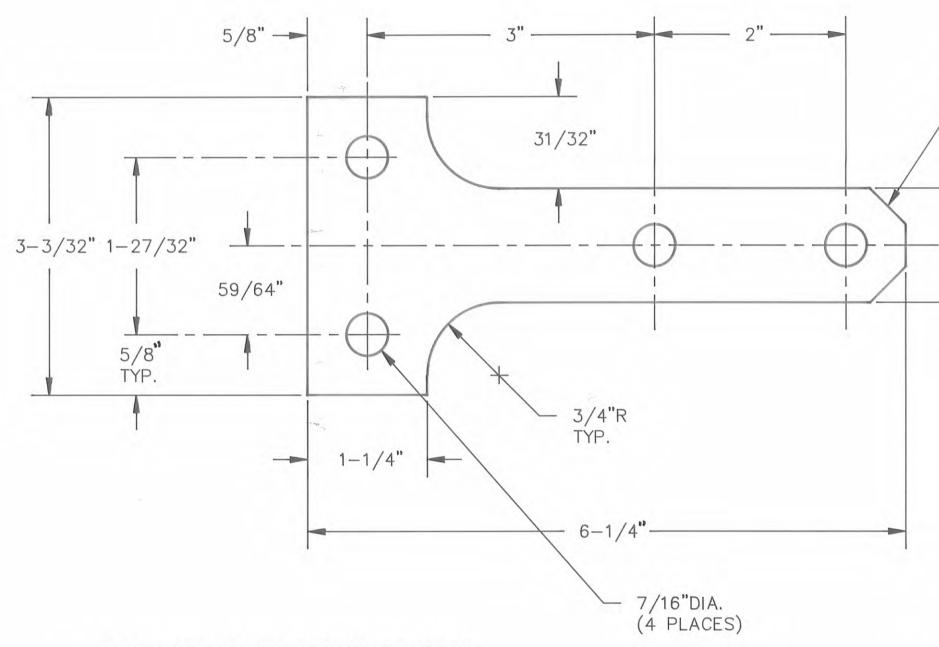


RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

WASHER: FLAT, FOR CURRENT COLLECTOR BEAM SUPPORT ASSEMBLY (WEGMANN TRUCK)

CAR SERIES: 2400, 2600 & 3200

Drawn MES Scale FULL Date 10-18-93
Checked Joseph Jan Approved
This Guelker W17/95
Approved
Next : Asset : Ass



PLATE, GROUND: BOLSTER TO CAR BODY AND TRUCK FRAME, CLAM SHELL SIDE CARS: 2401 - 3200 ONE REQUIRED PER TRUCK C.T.A. LOT NO. 4003178, S.R.42

MATERIAL: 3/16" THICK COPER PLATE SOFT NO. 102, PER ASTM B-152

LATEST SPECIFICATION

NOTE

1 - 3/16"

3/8"X45° TYP.

- 1) REMOVE ALL BURRS AND SHARP EDGES.
- 2) TOLERANCES UNLESS OTHERWISE SPECIFIED. ±1/32" ±.03" FRACTIONAL

DECIMAL ANGULAR ±1°



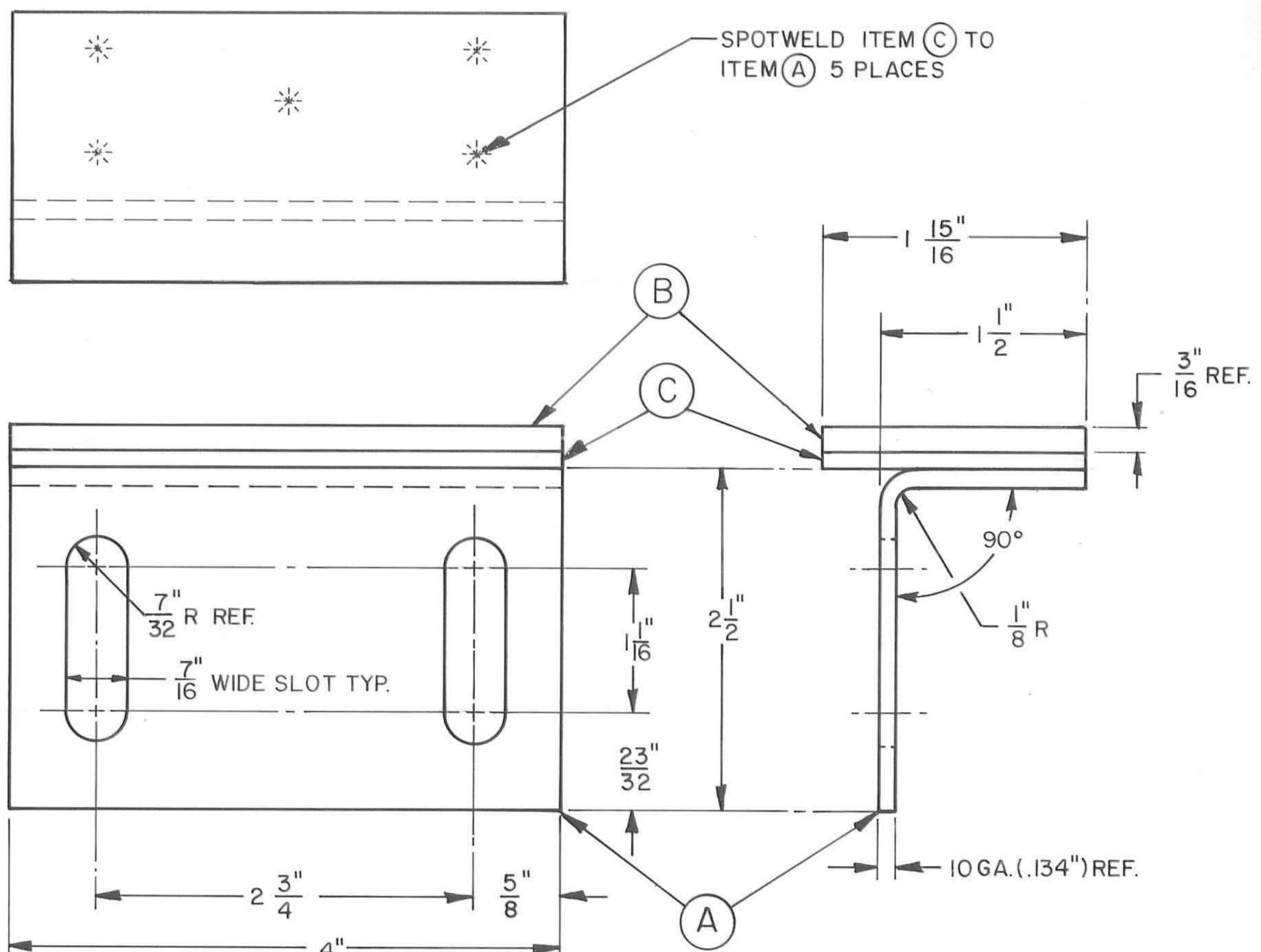
Engineering & Maintenance Division Equipment Engineering and Maintenance Department

PLATE, GROUND: BOLSTER TO CAR BODY AND TRUCK FRAME, CLAMSHELL SIDE CARs: 2401 - 3200

Scale FULL Date 4/14/87 Rev. Drawn CDC

DIRECTOR, EQUIPMENT ENG.

MANAGER, EQUIP. ENG. & MAINT.



STOP: BRAKE ACTUATOR ARM, FOR WEGMANN TRUCK CTA ITEM NO. 4182624

MATERIAL:

ITEM (A) AND (C): 10 GA (.134") CARBON STEEL

ZINC PLATED PER ASTM B-633

ITEM (B):

3/16" THICK NEOPRENE, 75±5 DUROMETER, SHORE A PER LATEST ASTM 2000 SPEC

NOTE:

- 1). BREAK ALL SHARP CORNERS
- 2). ITEM "B" TO BE MOLDED TO ITEM "C"
- 3). TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS +/-1/32" **ANGLES** +/-1/2 DEG.

REV. 1: ADDED ITEM "C" AND WIDENED ITEM "B" (WAS 1 1/4"). R.J.K., 01-05-88.

REV. 5: CORRECTED DUROMETER FOR ITEM B. WAS 5, NOW 75±5. C.P. 5-7-03.

NO.380 (CTA L/N 1009422) OR MOLDED" FROM THE NOTE 2. CJ 12/17/09

REV. 7: REMOVED "ITEM B TO BE BONDED TO ITEM C WITH LOCTITE BLACK MAX

REV. 4: MATERIAL FOR ITEM A & C WAS CADMIUM PLATED. C.P. 4-21-03.

REV.6:ADDED "OR MOLDED" TO NOTE 2. C.J. 6-17-08

REV. 2: $1^{15}/_{16}$ " WAS $2^{7}/_{16}$ ". H.L., 6-26-89. REV. 3: ADHESIVE IN NOTE 2 WAS 3M RUBBER AND VINYL ADHESIVE 80. R.V.P., 3-26-93.

REF. ENGINEERING BULLETIN RM-25-056



Engineering & Maintenance Division Equipment Engineering and Maintenance Department

STOP: BRAKE ACTUATOR ARM, FOR WEGMANN TRUCK

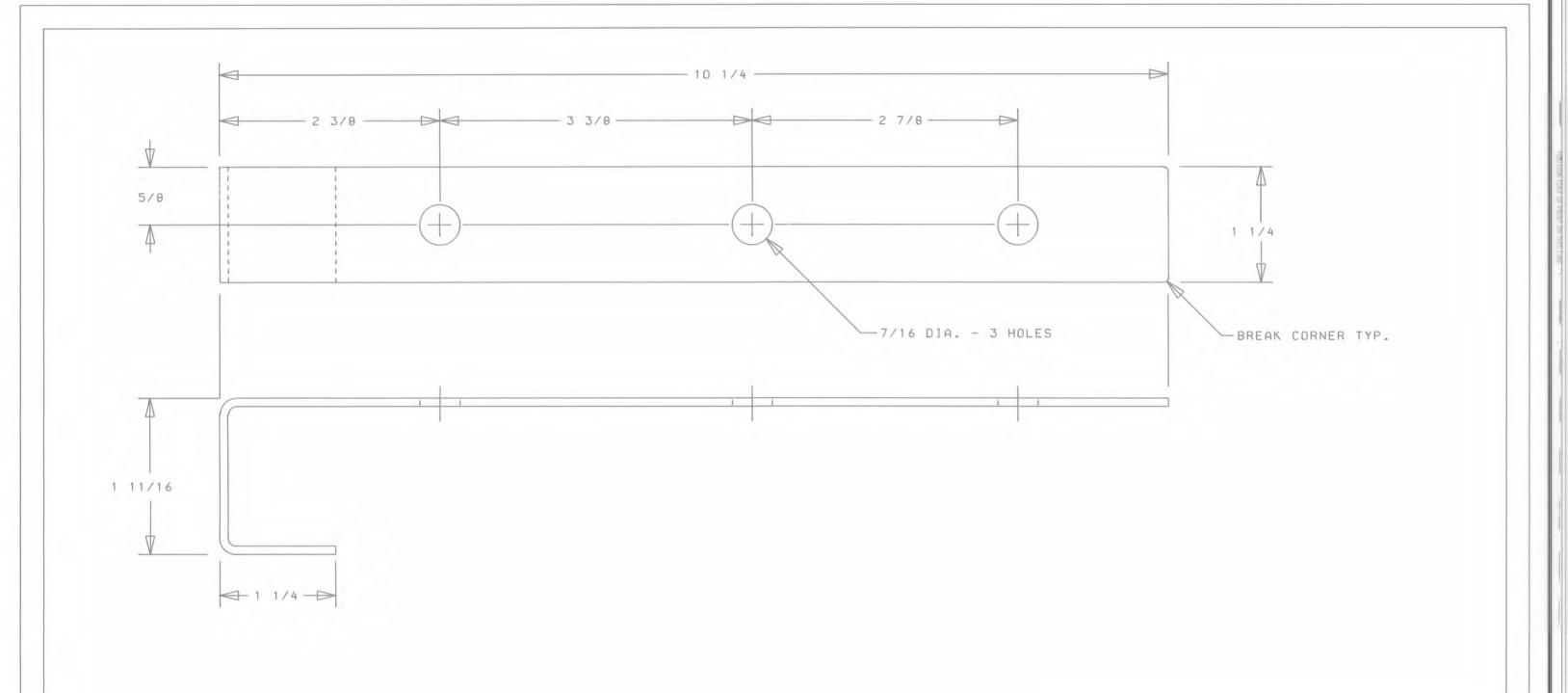
Drawn M.D. Checked BAK

Scale (FULL

Date 3-23-87 Approved 1 Hams

R-2-1201

DIRECTOR, EQUIPMENT ENG.



CHANNEL: ELECTRIC CABLE CLEAT BLOCK SUPPORT ONE REQ'D PER CAR CAR SERIES: 2600 CTA LOT NO. 3104677, S.R. 42.

MAT'L 13GA(.090)TYPE 304 STAINLESS STEEL

- 1) REMOVE DRAG EDGES INCLUDING HOLES.
- 2) PART MUST BE FLAT.
- 3) TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL ±1/16 ANGULAR ±10



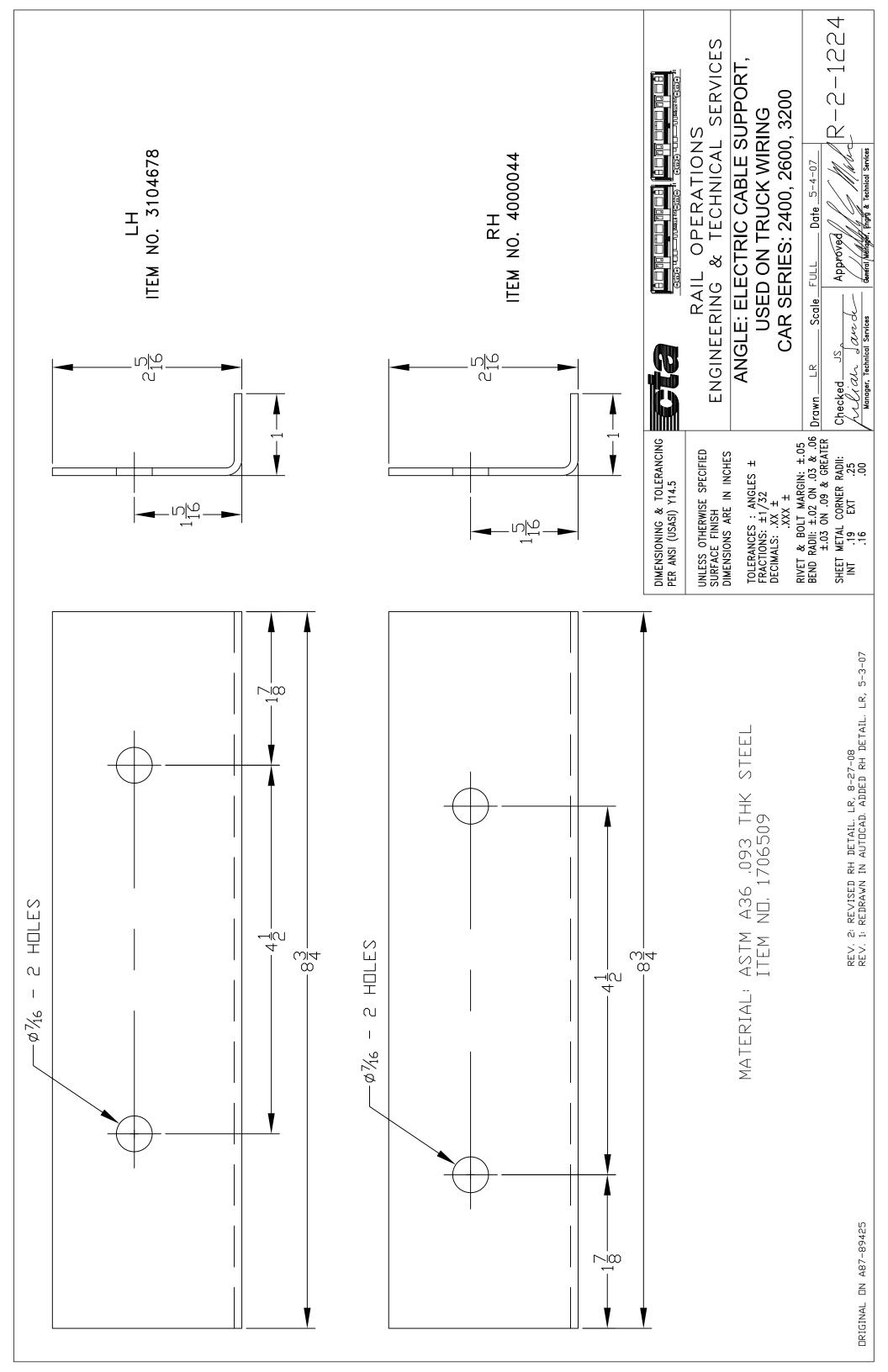
ENGINEERING & MAINTENANCE DIVISION EQUIPMENT ENGINEERING AND MAINTENANCE DEPARTMENT

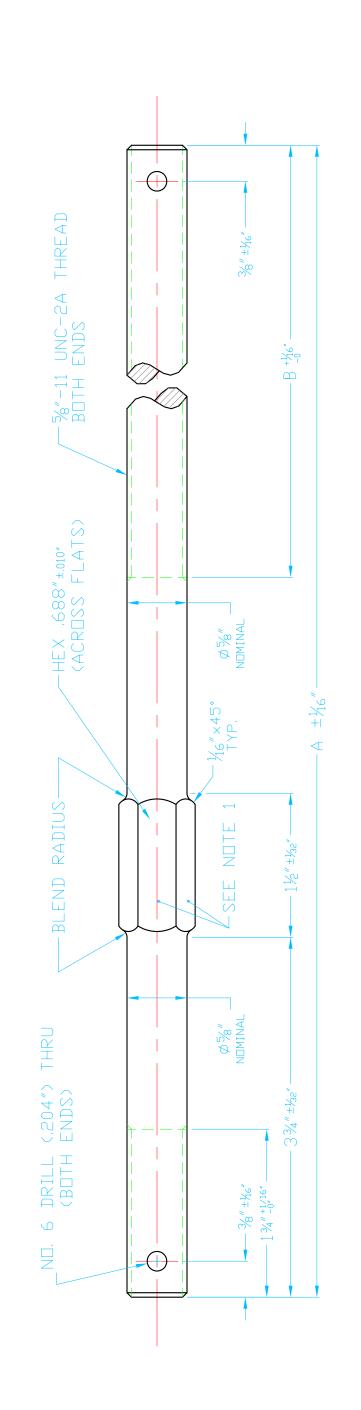
CHANNEL: ELECTRIC CABLE CLEAT BLOCK SUPPORT CAR SERIES: 2600

Drawn NTK Scale FULL Date 01/89

APPROVED J. Sopred R-2-1223

ORIGINAL ON BUDD DWG. A87-84035





REV.3: REVISED MATERIAL & FINISH. C.P. 12/02/04.

REV.2: CORRECTED THE DATE, ADDED COLUMN FOR USER IN THE TABLE, ADDED ADITIONAL SPECIFICATION FOR MATERIAL FINISH. C.P. 09/16/02.

REV.1: REDRAWN IN AUTOCAD. REMOVED 6000 AND ADD 2200, 2400, 2600, 3200 CAR SERIES. L.R. 08/05/02. REV.6: REVISION TO PART MARKING REQUIREMENTS IN NOTE #1. HP 10/14/11. REV.5: "ELEC." WAS "MECH." AND "B633" WAS "B695" IN MATERIAL DESCRIPTION. LR 5/12/11. REV.4: CORRECTED TYPO IN MATERIAL DESCRIPTION. LR 7/8/10.

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES SURFACE FINISH 125/

ROD: ADJUSTING / SUPPORT, 13" AND 14¾" LG.
FOR TRACK BRAKE INSTALLATION
(2) REQ'D PER DEVICE
C.T.A. ITEM NO. 4182609 FOR 2400, 2600, 3200 CAR SERIES
4181234 FOR 2200 CAR SERIES
MATERIAL: STEEL, MED. CARBON, 1144 STRESS RELIEVED,
ASTM A311 CLASS B, ZINC ELEC. DEPOSIT AFTER
MACHINING PER ASTM B633 CLASS 8, TYPE II
COLOR CHROMATE.

CAR SERIES

"B

DIM.

DIM.

ITEM NO.

26, 24,

6/2 5/2

1434, 13,

4182609

4181234

1.) EACH ROD TO BE MARKED ACCORDING TO REQUIREMENTS STATED IN CTA SPECIFICATION 7625 UNDER "PART MARKINGS".

R.J.K. Drawn M.D. Checked_ REFER TO ANSI B1.1 FOR THREADS,
ANSI B18.2.1 FOR HEX/BODY
CONCENTRICITY
IFI-136, TYPE 3 FOR BODY TOLERANCES:

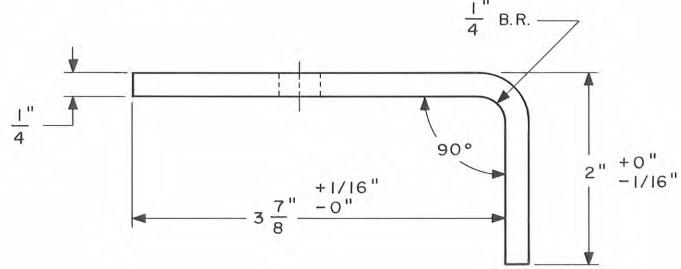
/ SUPPORT, 13" AND 14-3/4" LG. SERVICES **OPERATIONS** ENGINEERING & TECHNICAL FOR TRACK BRAKE INSTALLATION RAIL ROD: ADJUSTING , CAR SERIES: ALL

Next Assy General Manager, Engrg & Technical Services 4/2/8 Approved CM Scale_FULL_Date_ Mile Tuebler Technical Services Manager

R-2-1244

SUPERCEDES PCC-1017 REV.7 R-2-1176 REV.1

2.) REMOVE ALL BURRS AND SHARP EDGES



NOTES:

- I. ANGLE TO BE FREE OF ALL BURRS, DRAG EDGES AND DISTORTION, INCLUDING AROUND HOLE.
- 2. SOLVENT CLEAN OF ALL FOREIGN MATTER AND PAINT WITH ONE (I) COAT OF RUSTOLEUM X60 RED PRIMER AND TWO(2) COATS OF RUSTOLEUM R470 ALUMINUM ENAMEL.

ANGLE: SECURING, FOR MOTOR LEAD CLEAT BLOCK INSTALLATION (MODIFIED WEGMANN TRUCK) I REQUIRED PER TRUCK CAR SERIES: 2400 C.T.A. LOT. NO. 4002415

MATERIAL: 1/4" THICK, LOW CARBON STEEL

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES

TOLERANCES: ANGLES \pm FRACTIONS: \pm DECIMALS .XX \pm DECIMALS .XXX \pm RIVET & BOLT EDGE MARGIN \pm .05

BEND RADII .01 ON .03 & .06 ± .03 ON .09 & GREATER SHEET METAL CORNER RADII

INT .19 EXT .25 .16 .00





RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

ANGLE: SECURING, FOR MOTOR LEAD CLEAT BLOCK INSTALLATION (MODIFIED WEGMANN TRUCK) CAR SERIES: 2400

Drawn MES Scale FULL Date 9-21-93
Checked 8 9-23,93
Approved

Nibe Suelban 9188/99

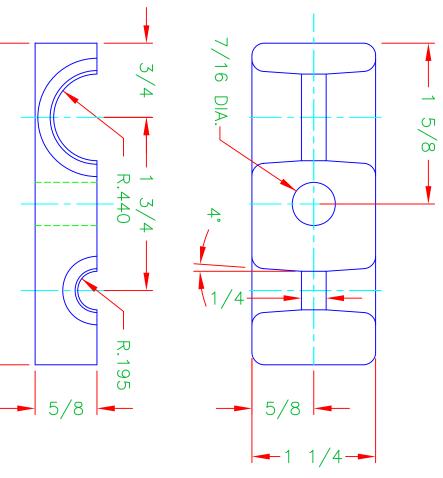
Approved

Approved

Next

SUPERSEDES SK-I-020892, L.B.





DETAIL

MATERIAL DESCRIPTION

QTY

M3FE408A19B37C12C20EA14F19

COLOR RED

PER ASTM D2000

BLOCK: SILICONE RUBBER COMPOUND

C.T.A. (12) F BLOCK: CLEAT, TRUCK, SHOE TIE AND TRACK TRIP CABLES CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4003131 (USE WITH ITEM SHOWN ON CTA REQ'D PER CAR DWG. R-2-1300)

REPLACES CTA ITEM NO. 4003274 ORIGINAL ON M & K E01-121-58 DRAWN ON AUTOCAD FROM R-2-642

NOTES:

S

1/4

- 1. EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION FOR ADDITIONAL INFORMATION



DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5









ENGIN EERING & TECHNICAL SERVICES RAIL OPERATIONS

UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES

FRACTIONS: ±
DECIMALS .XX ±
DECIMALS .XXX ±

TOLERANCES: ANGLES ± 1/2° FRACTIONS: ± 1/64

CARS: C.T.A. 2400, 2600, 3200 ITEM NO. 4003131

AND TRACK TRIP CABLES

BLOCK:

CLEAT, TRUCK, SHOE TIE

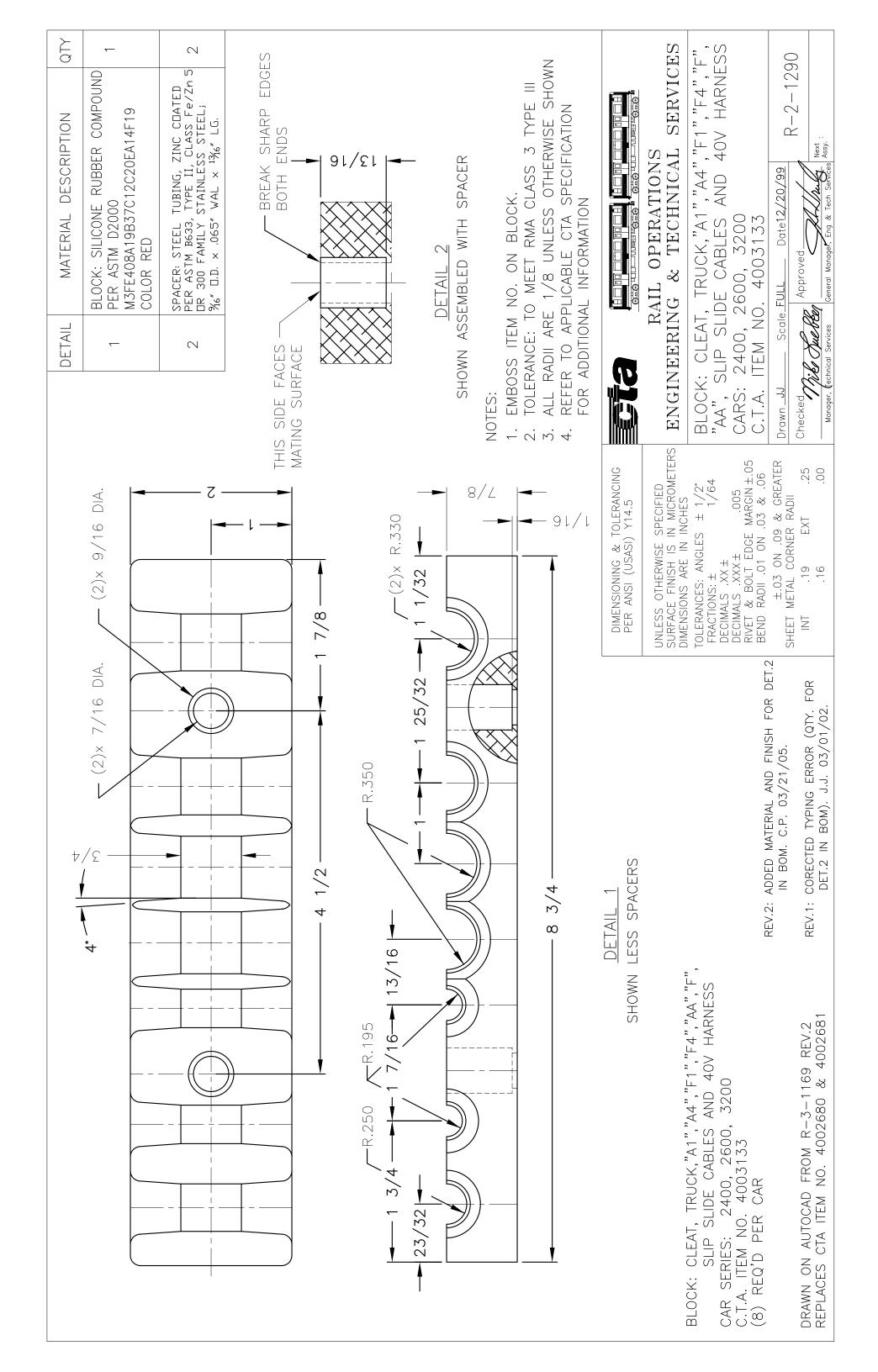
Manager, (Technical Services	1 nike Tuebben	Checked 70 000	Drawn_JJ Scale_F
General Manager, Eng & Tech Services	< Al Duly	Approved	FULL Date12/16/99
Assy.	Next		

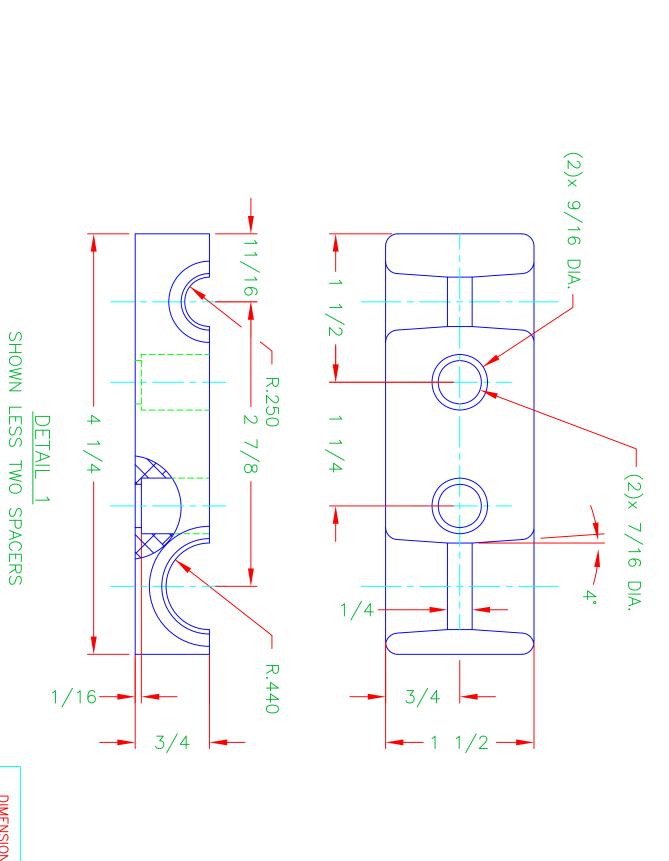
±.03 ON .09 & GREATER SHEET METAL CORNER RADII

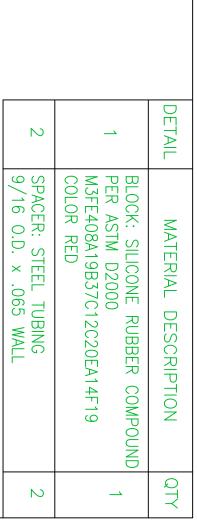
.19

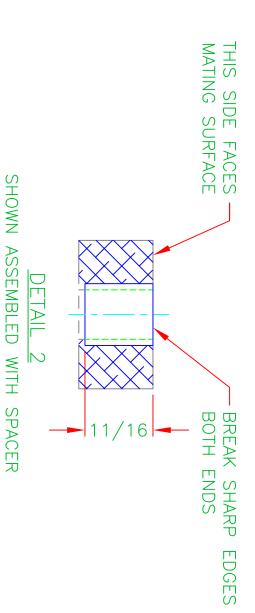
.25

BEND RADII .01 ON .03 & .06









NOTES:

- 1. EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION
- FOR ADDITIONAL INFORMATION

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

±.03 ON .09 & GREATER SHEET METAL CORNER RADII UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES $\pm 1/2^{\circ}$ FRACTIONS: $\pm 1/64$ RIVET & BOLT EDGE MARGIN±.05 BEND RADII .01 ON .03 & .06 DECIMALS .XX ±

CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013502 (4) REQ'D PER CAR

BLOCK: CLEAT, TRUCK "AA1", "AA3"

AND SHOE TIE CABLES





RAIL OPERATIONS

CK: CLEAT, TRUCK,"AA1","AA3", SHOE TIE CABLES

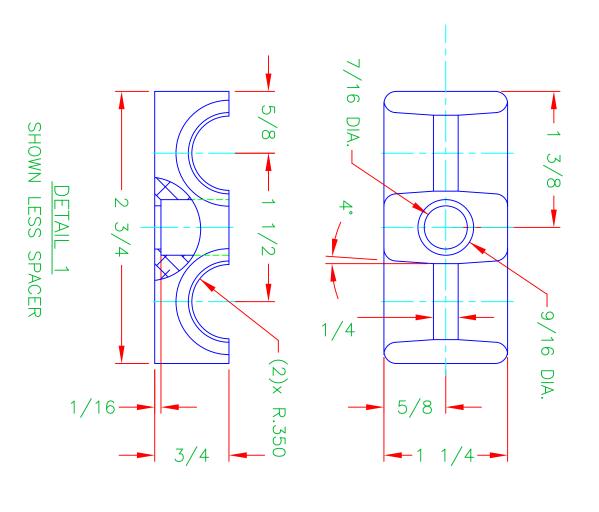
2400, 2600, 3200 TEM NO. 4013502

Date12/16/99

DRAWN ON AUTOCAD FROM R-2-639 REPLACES CTA ITEM NO. 4003263 ORIGINAL ON M & K E-01-121-52

.25 Checked 77.7 Drawn_JJ CARS: C.T.A. AND BLOCK: ENGIN EERING & TECHNICAL SERVICES

. 19



THIS SIDE FACES

BOTH ENDS

BREAK SHARP EDGES

DETAIL

MATERIAL DESCRIPTION

P T V

N

SPACER: STEEL TUBING 9/16 O.D. × .065 WALL

M3FE408A19B37C12C20EA14F19

COLOR RED

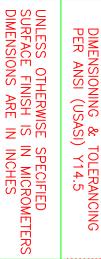
PER ASTM D2000

BLOCK: SILICONE RUBBER COMPOUND

C.T.A. ITEM NO. 4013503 (4) REQ'D PER CAR CAR SERIES: 2400, 2600, 3200 BLOCK: CLEAT, TRUCK, GROUND BRUSH CABLES

MATING SURFACE NOTES: ENGIN ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION EMBOSS ITEM NO. ON BLOCK. FOR ADDITIONAL INFORMATION TOLERANCE: TO MEET RMA CLASS 3 TYPE III SHOWN ASSEMBLED WITH SPACER RAIL OPERATIONS DETAIL 2

REPLACES ORIGINAL ON BUDD A87-89480 DRAWN ON AUTOCAD FROM R-1-1164 CTA ITEM NO. 4002644



±.03 ON .09 & GREATER SHEET METAL CORNER RADII TOLERANCES: ANGLES $\pm 1/2^{\circ}$ FRACTIONS: $\pm 1/64$ DECIMALS .XX ± MALS .XXX± .005 & BOLT EDGE MARGIN±.05 RADII .01 ON .03 & .06

> BLOCK: CABLES

> > CLEAT, TRUCK, GROUND BRUSH

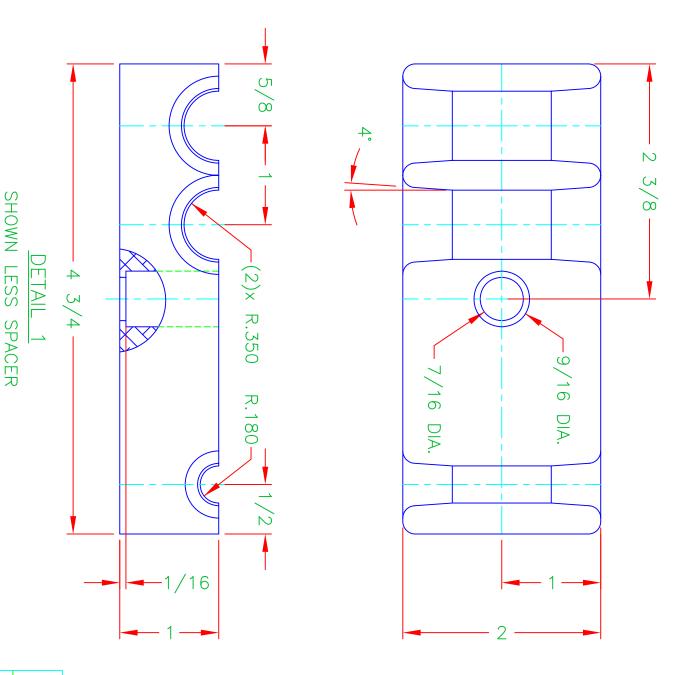
TECHNICAL SERVICES

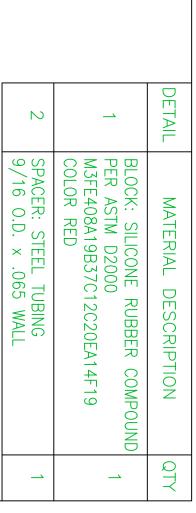
C.T.A. CARS: TEM NO. 4013503 2400, 2600, 3200

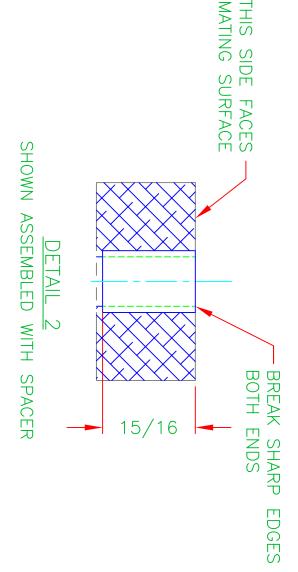
Checked. Drawn JJ Scale_FULL Date12/21/99

.19 .16

.25







NOTES:

- 1. EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION
- FOR ADDITIONAL INFORMATION

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

±.03 ON .09 & GREATER SHEET METAL CORNER RADII UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES FRACTIONS: ±
DECIMALS .XX ±
DECIMALS .XXX ± TOLERANCES: ANGLES $\pm 1/2^{\circ}$ FRACTIONS: $\pm 1/64$ DECIMALS .XXX± .005
RIVET & BOLT EDGE MARGIN ±.05
BEND RADII .01 ON .03 & .06

DRAWN ON AUTOCAD FROM R-2-1257

CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013505 (4) REQ'D PER CAR

BLOCK: CLEAT, TRUCK, "FF2", "FF3", "A2", "A3"

CABLES AT CLAM SHELL

REPLACES CTA ITEM NO. 4002411



ENGIN EERING & TECHNICAL SERVICES RAIL OPERATIONS

C.T.A. CARS: BLOCK: CABLES 2400, 2600, 3200 TEM NO. 4013505 AT CLAM SHELL CLEAT, TRUCK, "FF2", "FF3", "A2", "A3"

Approved Date12/24/99 R-2-

. 19

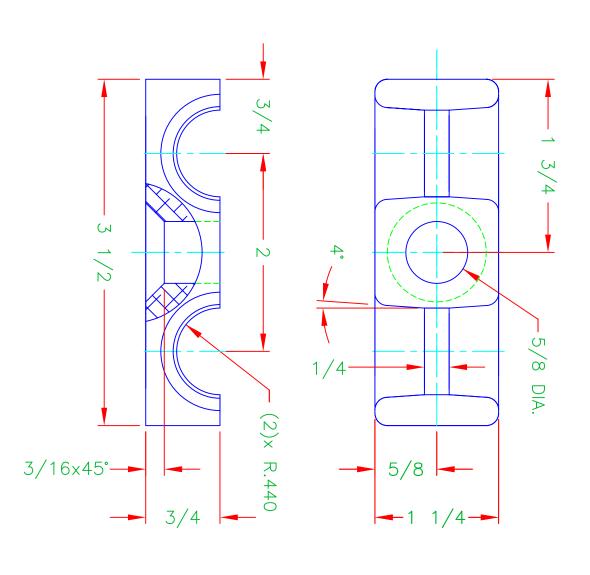
.25

Checked

Drawn JJ

Scale_FULL

1294



BLOCK: CLEAT, TRUCK, SHOE TIE **CABLES** DWG. R-2-1301)

(USE WITH ITEM SHOWN ON CTA CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013515 (12) REQ'D PER CAR

ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION EMBOSS ITEM NO. ON BLOCK. TOLERANCE: TO MEET RMA CLASS 3 TYPE III DETAIL M3FE408A19B37C12C20EA14F19 PER ASTM D2000 BLOCK: SILICONE RUBBER COMPOUND COLOR RED MATERIAL DESCRIPTION

QTY

NOTES:

- FOR ADDITIONAL INFORMATION

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5





ENGIN EERING & TECHNICAL RAIL OPERATIONS SERVICES

UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES

TOLERANCES: ANGLES ± 1/2° FRACTIONS: ± 1/64

CARS: C.T.A. BLOCK: 2400, 2600, 3200 ITEM NO. 4013515 CLEAT, TRUCK, SHOE TIE CABLES

Checked Drawn_JJ Scale_FULL Approved Date12/27/99

±.03 ON .09 & GREATER SHEET METAL CORNER RADII

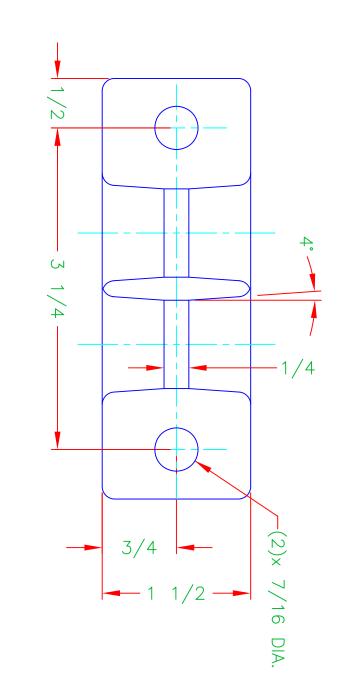
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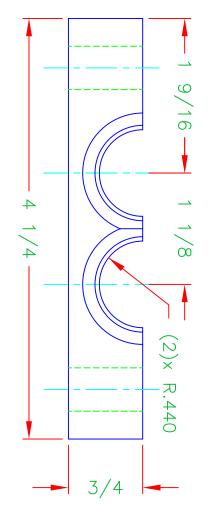
RIVET & BOLT EDGE MARGIN±.05 BEND RADII .01 ON .03 & .06

R-2-1295

DRAWN ON AUTOCAD FROM R-2-636 REPLACES ORIGINAL ON M & K E01-121-34 CTA ITEM NO. 4003249



MATERIAL DESCRIPTION BLOCK: SILICONE RUBBER COMF PER ASTM D2000 M3FE408A19B37C12C20EA14F19	MATERIAL DESCRIPTION BLOCK: SILICONE RUBBER COMPOUND PER ASTM D2000
--	--



NOTES:

EMBOSS ITEM NO. ON BLOCK.

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

(USE WITH ITEM SHOWN ON CTA CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013516

(8) REQ'D PER CAR

BLOCK: CLEAT, TRUCK SHOE TIE CABLES

DWG. R-2-1302)

UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES FRACTIONS: ±
DECIMALS .XX ±
DECIMALS .XXX ± TOLERANCES: ANGLES $\pm 1/2^{\circ}$ FRACTIONS: $\pm 1/64$

±.03 ON .09 & GREATER SHEET METAL CORNER RADII RIVET & BOLT EDGE MARGIN ±.05 BEND RADII .01 ON .03 & .06

ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION

FOR ADDITIONAL INFORMATION

TOLERANCE: TO MEET RMA CLASS 3 TYPE III

ENGIN EERING & TECHNICAL RAIL OPERATIONS SERVICES

CARS: C.T.A. BLOCK: 2400, 2600, 3200 ITEM NO. 4013516 CLEAT, TRUCK SHOE TIE CABLES

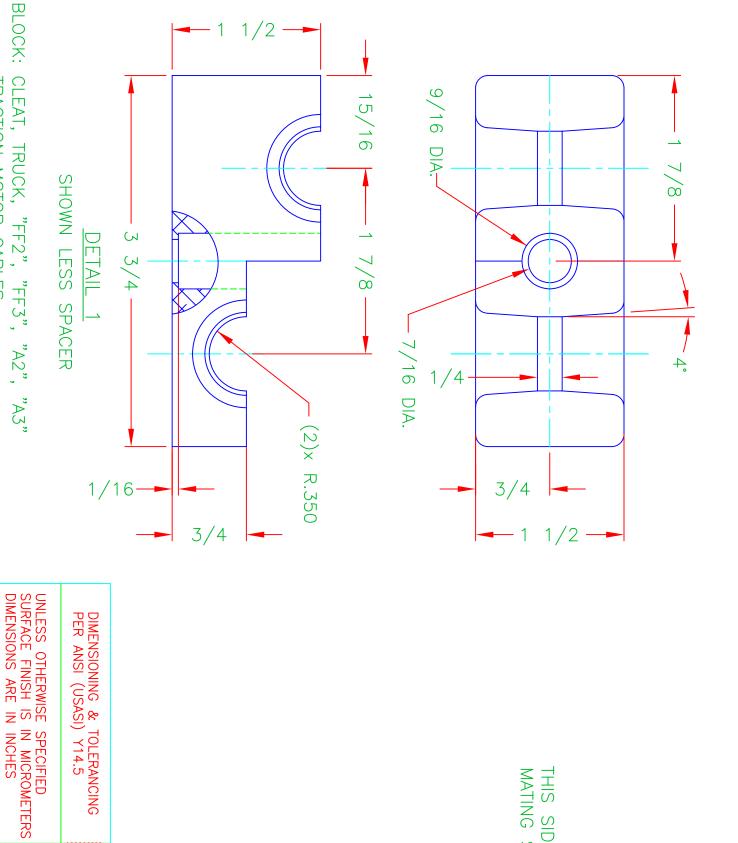
Checked Drawn_JJ Manager, technical Services Scale_FULL Approved Date12/27/99

.19

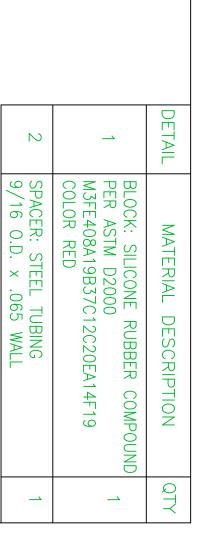
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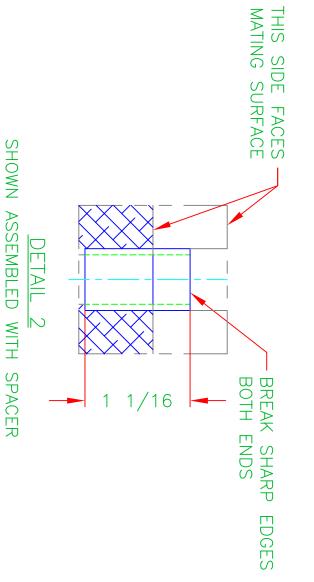
R-2-1296

DRAWN ON AUTOCAD FROM R-2-637 REPLACES CTA ITEM NO. 4003254 ORIGINAL ON M & K E01-121-49



CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013517 (4) REQ'D PER CAR TRACTION MOTOR CABLES





NOTES:

- EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION
- FOR ADDITIONAL INFORMATION



DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5



ENGIN EERING & TECHNICAL SERVICES RAIL OPERATIONS

CLEAT, TRUCK,"FF2","FF3","A2","A3"

CARS: C.T.A. TRACTION MOTOR CABLES 2400, 2600, 3200 TEM NO. 4013517

Checked Drawn JJ nical Services Scale_FULL Approved eneral Manager Date12/28/99

±.03 ON .09 & GREATER SHEET METAL CORNER RADII

.19

.25

DECIMALS .XXX± .005
RIVET & BOLT EDGE MARGIN ±.05
BEND RADII .01 ON .03 & .06

TOLERANCES: ANGLES $\pm 1/2^{\circ}$ FRACTIONS: $\pm 1/64$

BLOCK:

DECIMALS .XX ±

R-2-

1297

REPLACES CTA ITEM NO. 4242430 DRAWN ON AUTOCAD FROM R-3-1171

(4) REQ'D PER CAR C.T.A. ITEM NO. 4013518 CAR SERIES: 2400, 2600, 3200 (USE WITH ITEM SHOWN ON CTA DWG. R-2-1299) AND TRACK TRIP CABLES AT MOUNTING PLATE BLOCK: CLEAT, TRUCK, "AA", "A", "FF", "F"

91. 62. TX3 61. SHEET METAL CORNER RADII 4.03 ON .09 & GREATER 8END RADII .01 ON .03 & .06

DECIMALS .XXX ± .005
RIVET & BOLT EDGE MARGINE.05 DECIMALS XX ± 79/L FRACTIONS: ± TOLERANCES: ANGLES ± 1/2"

DIMENSIONS ARE IN INCHES SURFACE FINISH IS IN MICROMETERS **ONLESS OTHERWISE SPECIFIED**

DIMENSIONING & TOLERANCING

R-2-1298 Dote12/29/99 Scole FULL

C.T.A. ITEM NO. 4013518 CARS: 2400, 2600, 3200 &TRACK TRIP CABLES AT MOUNTING PLATE BLOCK: CLEAT, TRUCK, "AA", "A", "FF", "F"

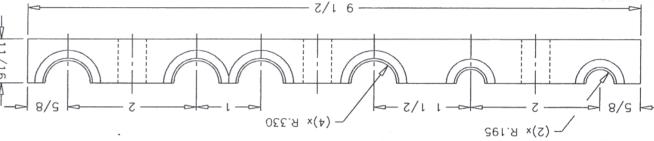
ENGINEERING & LECHNICYL SERVICES RAIL OPERATIONS

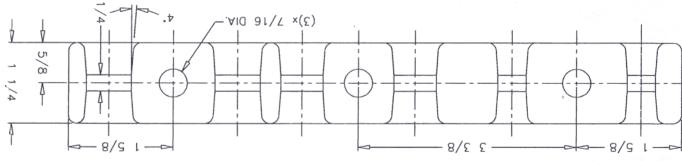


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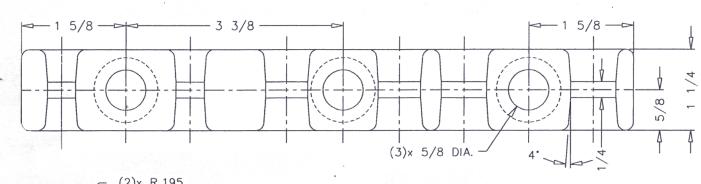
- FOR ADDITIONAL INFORMATION 4. REFER TO APPLICABLE CTA SPECIFICATION
- 3. ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN
 - 2. TOLERANCE: TO MEET RMA CLASS 3 TYPE III
 - 1' EMBOSS ILEM NO' ON BLOCK,

NOTES:

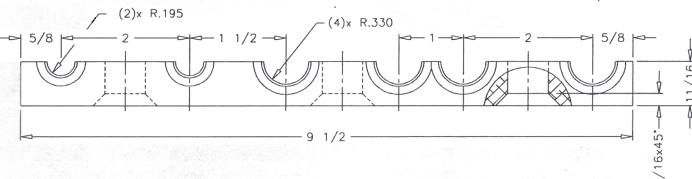




	COLOR RED MJFE408A19BJ7C12C20EA14F19 PER ASTM D2000 BLOCK: SILICONE RUBBER COMPOUND	
ΥTΩ	MATERIAL DESCRIPTION	JIAT30



DETAIL	MATERIAL DESCRIPTION	QTY
	BLOCK: SILICONE RUBBER COMPOUND PER ASTM D2000 M3FE408A19B37C12C20EA14F19 COLOR RED	



NOTES:

- 1. EMBOSS ITEM NO. ON BLOCK.
- 2. TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- 3. ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN
- 4. REFER TO APPLICABLE CTA SPECIFICATION FOR ADDITIONAL INFORMATION

BLOCK: CLEAT, TRUCK, "AA", "A", "FF", "F"
AND TRACK TRIP CABLES AT MOUNTING PLATE
(USE WITH ITEM SHOWN ON CTA DWG. R-2-1298)
CAR SERIES: 2400, 2600, 3200
C.T.A. ITEM NO. 4013519
(4) REQ'D PER CAR

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED
SURFACE FINISH IS IN MICROMETERS
DIMENSIONS ARE IN INCHES
TOLERANCES: ANGLES ± 1/2*
FRACTIONS: ± 1/64
DECIMALS .XX±
DECIMALS .XXX± .005
RIVET & BOLT EDGE MARGIN±.05
BEND RADII .01 ON .03 & .06
±.03 ON .09 & GREATER

±.03 ON .09 & GREATER SHEET METAL CORNER RADII INT .19 EXT .25

INT .19 EXT .25 .16 .00



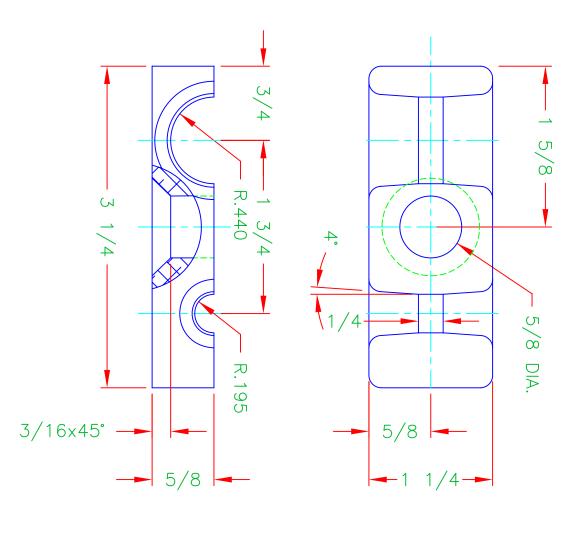
RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

BLOCK: CLEAT, TRUCK, "AA", "A", "FF", "F" &TRACK TRIP CABLES AT MOUNTING PLATE CARS: 2400, 2600, 3200 C.T.A. ITEM NO. 4013519

Drawn_JJ Scale_	ULL Dote12/29/99	D 0 1000
Checked	Approved	R-2-1299
Tike July	Allruly	
Manager,(Technical Services	General Manager, Eng & Tech Services	Assy.

DRAWN ON AUTOCAD FROM R-3-1172 REPLACES CTA ITEM NO. 4242431





DETAIL

MATERIAL DESCRIPTION

QTY

M3FE408A19B37C12C20EA14F19

COLOR RED

PER ASTM D2000

BLOCK: SILICONE RUBBER COMPOUND

CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013520 BLOCK: CLEAT, TRUCK, SHOE TIE AND TRACK TRIP CABLES USE WITH ITEM SHOWN ON CTA REQ'D

PER CAR DWG. R-2-1288)

ORIGINAL ON M & K E01-121-59 DRAWN ON AUTOCAD FROM R-2-643

REPLACES CTA ITEM NO. 4003273

NOTES:

- EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION FOR ADDITIONAL INFORMATION



DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

ENGIN EERING & TECHNICAL SERVICES RAIL OPERATIONS

UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES

TOLERANCES: ANGLES ± 1/2° FRACTIONS: ± 1/64

BLOCK:

CLEAT, TRUCK, SHOE TIE

CARS: C.T.A. AND TRACK TRIP CABLES 2400, 2600, 3200 ITEM NO. 4013520

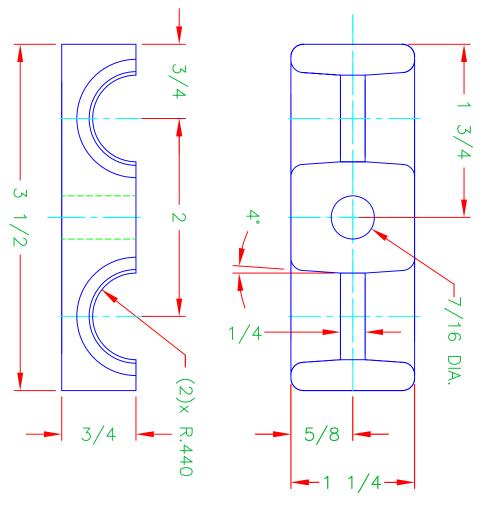
Checked 777. Drawn JJ Scale_FULL Approved Date01/04/00

±.03 ON .09 & GREATER SHEET METAL CORNER RADII

.19 .16

.25

BEND RADII .01 ON .03 & .06



DETAIL M3FE408A19B37C12C20EA14F19 PER ASTM D2000 BLOCK: SILICONE RUBBER COMPOUND COLOR RED MATERIAL DESCRIPTION QTY

CABLES DWG. R-2-1295)

(USE WITH ITEM SHOWN ON CTA CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013521 (12) REQ'D PER CAR BLOCK: CLEAT, TRUCK, SHOE TIE

NOTES:

- EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION FOR ADDITIONAL INFORMATION

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

ENGIN EERING & TECHNICAL RAIL OPERATIONS SERVICES

CLEAT, TRUCK, SHOE TIE CABLES

UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES

CARS: C.T.A. 2400, 2600, 3200 TEM NO. 4013521

Checked 77% Drawn_JJ Scale_FULL Approved Date01/10/00

R-2-1301

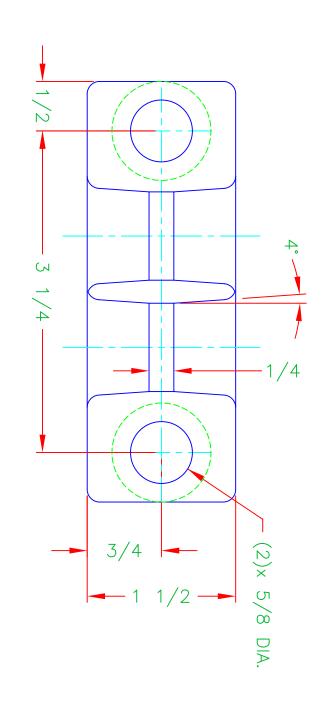
DRAWN ON AUTOCAD FROM R-2-636 ORIGINAL ON M & K E01-121-34 CTA ITEM NO. 4003249

REPLACES

±.03 ON .09 & GREATER SHEET METAL CORNER RADII FRACTIONS: ±
DECIMALS .XX ±
DE@IMALS .XXX TOLERANCES: ANGLES ± 1/2° FRACTIONS: ± 1/64 WALS .XXX .005 & BOLT EDGE MARGIN ±.05 RADII .01 ON .03 & .06 BLOCK:

.25

.19



DETAIL

MATERIAL DESCRIPTION

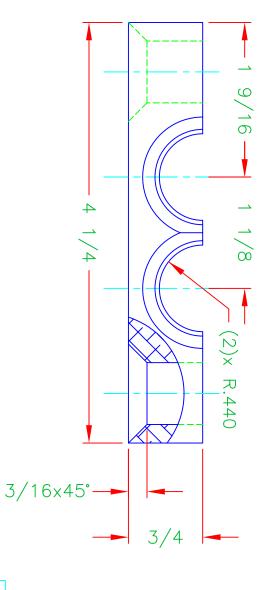
QTY

M3FE408A19B37C12C20EA14F19

COLOR RED

PER ASTM D2000

BLOCK: SILICONE RUBBER COMPOUND



BLOCK: CLEAT, TRUCK SHOE TIE CABLES (USE WITH ITEM SHOWN ON CTA DWG. FOR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013522 (8) REQ'D PER CAR DWG. R-2-1296)

DRAWN ON AUTOCAD FROM R-2-637

REPLACES CTA ITEM NO. 4003254 ORIGINAL ON M & K E01-121-49

NOTES:

- EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION FOR ADDITIONAL INFORMATION

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES ±.03 ON .09 & GREATER SHEET METAL CORNER RADII TOLERANCES: ANGLES ± 1/2° FRACTIONS: ± 1/64 RIVET & BOLT EDGE MARGIN±.05 BEND RADII .01 ON .03 & .06



ENGIN EERING & TECHNICAL RAIL OPERATIONS SERVICES

CARS: C.T.A. 2400, 2600, 3200 TEM NO. 4013522

BLOCK:

CLEAT, TRUCK SHOE TIE

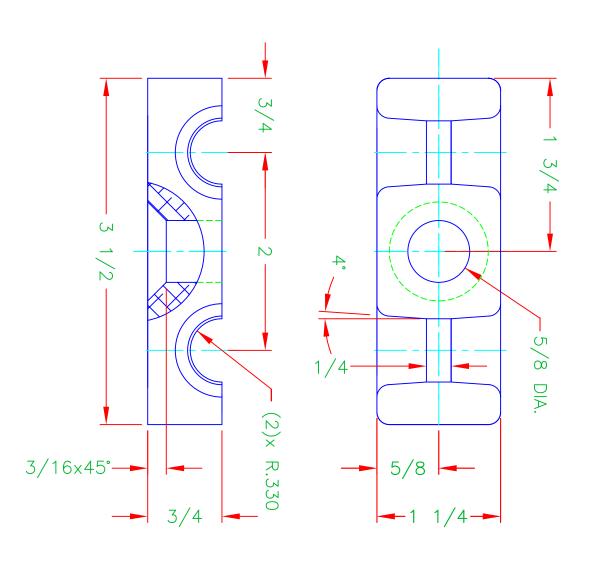
CABLES

Checked Drawn_JJ Scale_FULL Approved

.19

.25

Date01/10/00



(USE WITH ITEM SHOWN ON CTA CAR SERIES: 2400, 2600, 3200 C.T.A. ITEM NO. 4013523 (12) REQ'D PER CAR BLOCK: CLEAT, TRUCK, "AA" AND "F" CABLES DWG. R-2-1304)

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED SURFACE FINISH IS IN MICROMETERS DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± 1/2° FRACTIONS: ± 1/64

±.03 ON .09 & GREATER SHEET METAL CORNER RADII RIVET & BOLT EDGE MARGIN±.05 BEND RADII .01 ON .03 & .06 .19 .25

> NOTES: M3FE408A19B37C12C20EA14F19 PER ASTM D2000 BLOCK: SILICONE RUBBER COMPOUND COLOR RED

DETAIL

MATERIAL DESCRIPTION

QTY

- EMBOSS ITEM NO. ON BLOCK.
- TOLERANCE: TO MEET RMA CLASS 3 TYPE III
- ALL RADII ARE 1/8 UNLESS OTHERWISE SHOWN REFER TO APPLICABLE CTA SPECIFICATION FOR ADDITIONAL INFORMATION



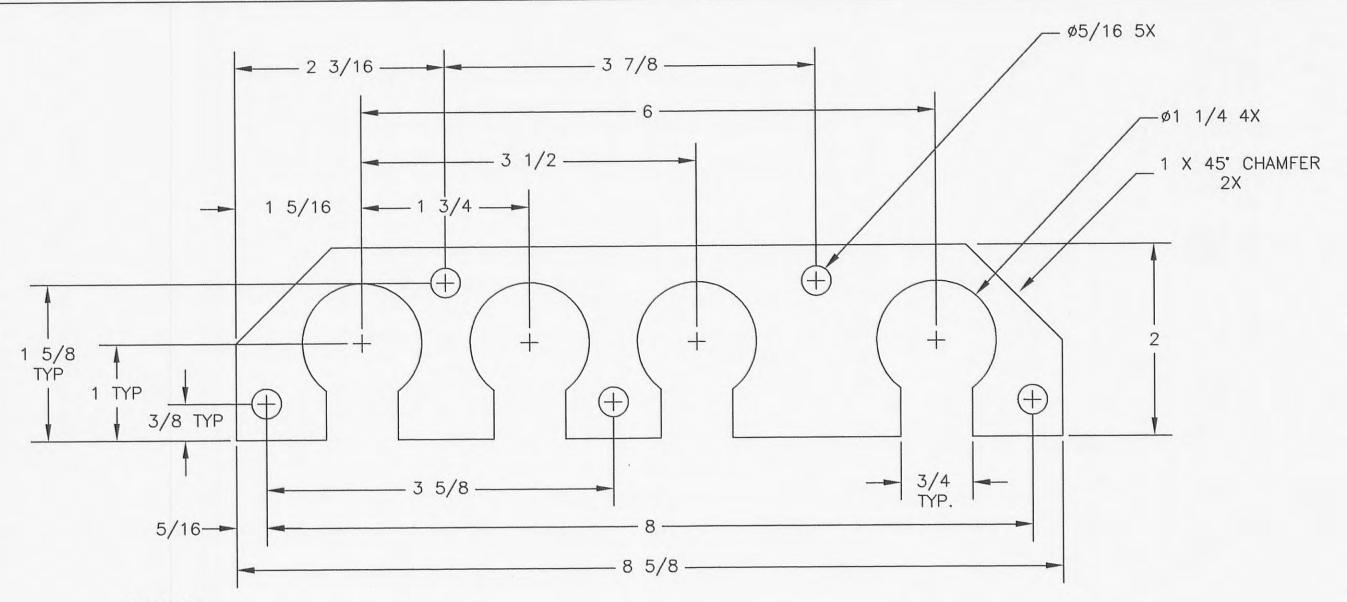
ENGIN EERING & TECHNICAL SERVICES RAIL OPERATIONS

CARS: "AA" AND "F" CABLES 2400, 2600, 3200 ITEM NO. 4013523

Checked Drawn_JJ Scale_FULL Approved Date12/27/99

R-2-

DRAWN ON AUTOCAD FROM R-2-636 REPLACES CTA ITEM NO. 4003249 ORIGINAL ON M & K E01-121-34



MATERIAL

STEEL: CARBON, 3/16 PLATE, COR-TEN

NOTE:

- 1. FINISHED PIECE SHALL BE FREE OF TOOL MARKS, BURRS, DRAG EDGES, SHARP CORNERS AND DISTORTION, INCLUDING AROUND HOLES.
- 2. FINISH: ZINC ELECTROPLATE AND NICKEL UNDERPLATE PER ASTM B633, CLASS A. PREPARE PIECE FOR PLATING PER ASTM B322.

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED
SURFACE FINISH
DIMENSIONS ARE IN INCHES
TOLERANCES: ANGLES ± 1°
FRACTIONS: ± 1/32
DECIMALS .XX ±
DECIMALS .XXX ±
RIVET & BOLT EDGE MARGIN ±.05
BEND RADII .01 ON .03 & .06
±.03 ON .09 & GREATER
SHEET METAL CORNER RADII

INT .19 EXT .25 .16 .00



Harring OFF WATER OFF

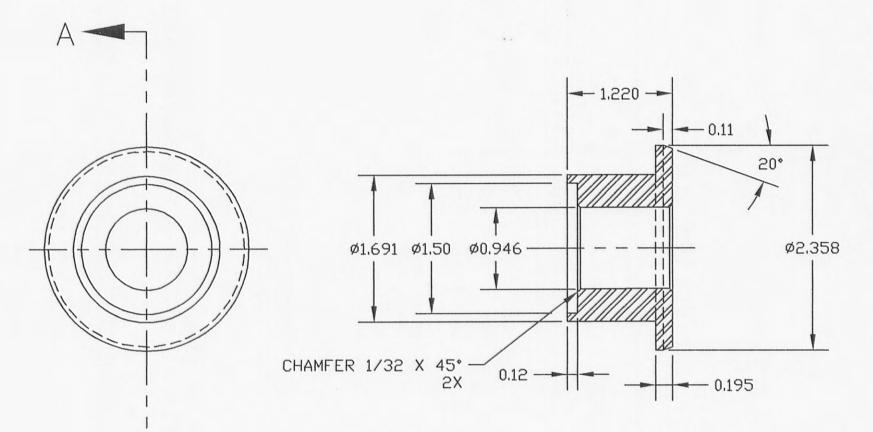
RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

PLATE: CABLE RETAINING, FOR TRACTION MOTOR COUPLER PLUG MP10, SUPER TRUCK CAR SERIES: 2400, 2600R & 3200 C.T.A. ITEM NO. 5153700

Drawn_RE Scal	<u>FULL</u> Date 3/2/00	D 0 1600
Checked Cwilliam	_ Approved Zeuglianina	R-2-1002
Mike Kuelben	Stallruly	Next :
Manager, Technical Services	General Manager, Eng & Fech Services	ASSY.







NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL:

STEEL, CARBON, COLD FINISHED, ROUND, AISI 1018 (REF: UNS G10180) 2.375 ROUND STOCK

SURFACE TREATMENT:

ZINC PLATE, ASTM B633: TYPE II

Fe/Zn 8

SECTION A-A

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5M-1982

UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± 1 1/32 0.03 FRACTIONS: ± DECIMALS .XX± DECIMALS .XXX± 0.010 RIVET & BOLT EDGE MARGIN ±.05 BEND RADII .01 ON .03 & .06

±.03 ON .09 & GREATER SHEET METAL CORNER RADII

INT .19 EXT .25 .16 .00





RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

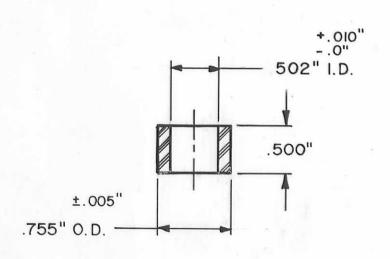
BUSHING: FLANGE COMPRESSION SPRING SUSPENSION UNIT, FOR TRACK BRAKE CAR SERIES 2400, 2600, 3200 C.T.A. ITEM NO. 4183063

Drawn_TJL___ Scale NONE Date 6/15/00

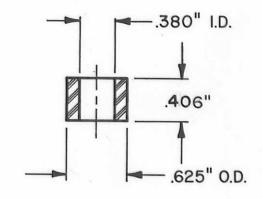
R-2-680



DRAWN FROM SAMPLE PART. KNORR P/N G05052/1



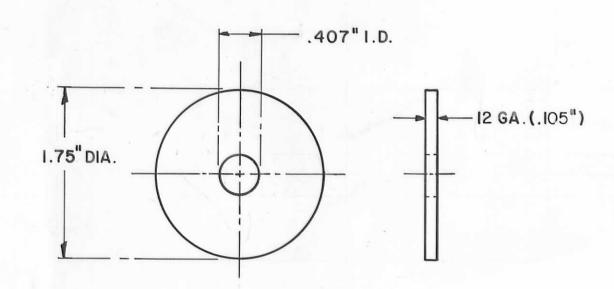
— .380" I.D. - .625"0.D.



ITEM A NYLON BUSHING, USE AT RELEASE ROD TO IDLER ARM CONNECTION C.T.A. LOT NO. 4183010

ITEM B NYLON BUSHING USED AT LINK ROD ASSY. TO CALIPER CONNECTION C.T.A. LOT NO. 4183017

ITEM D NYLON BUSHING, USED AT LINK ROD ASSY. TO IDLER ARM CONNECTION C.T.A. LOT NO. 4162641



ITEM C WASHER, STEEL, USED AT RELEASE ROD TO IDLER ARM CONNECTION C.T.A. LOT NO. 4183008

NOTES: NYLON IOI BAR, POLYMER CORP., READING PENNA. OR EQUIVALANT

2 CADMIUM PLATE PER ASTM B-696 LATEST REVISION FOR MECHANICAL DEPOSIT ALTERNATE: ZINC PLATE PER ASTM B-695 LATEST REVISION FOR MECHANICAL DEPOSIT

*		DΛ	RTS LIST		
BOEING & BUDD PART NO.	QTY./ TRUCK	IDENTIFYING NUMBER	DESCRIPTION	MATERIAL AND SPECIFICATION	FINISH
335-11143-10	4	Α	BUSHING	.875" DIA.	
335-11143-12	4	В	BUSHING	.625" DIA.	
335-11143-9	8	C	WASHER	12 GA.(.105") x 1.75"DIA. ASTM A-606STL.	2
A99-61529	4	D	BUSHING	.625" DIA.	

TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS .XX ± .020" "010. ± XXX.

REV.2: ITEM'C' WAS IO GA. ASTM A-325 STEEL, M.D., 12-1-88

REV. I. ITEM'C' WAS AISI 1008 STL. , M.D. ,5-1-85

-	-		-	_	
F	-	2000	SECTION AND ADDRESS OF THE PERSON NAMED IN	Ellenano	=4
=		200	Materia		
=			-		.00
					1000

Engineering & Maintenance Division Equipment Engineering and Maintenance Department

HARDWARE, LEVER ASSEMBLY, IDLER BRAKE MANUAL CONTROL DISC CAR SERIES: 2400,2600 & 3200

Checked Sans Rag FULL Date 12-4-84

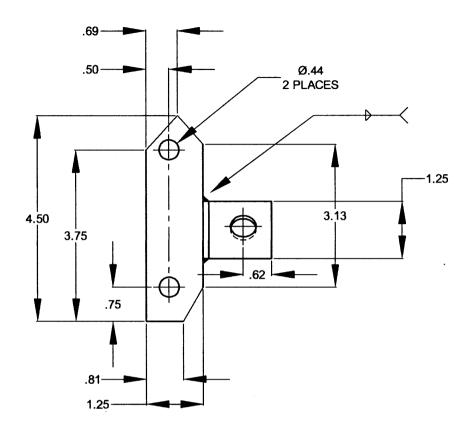
Checked Sans Rag Approved Appr

R-3-1135

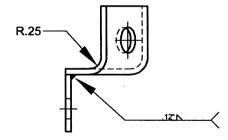
REV.5: ADDED QTY. PER TRUCK AND WHERE USED, ITEM'A" QTY. WAS 8, ITEM"B" WAS. 406" LG., ADDED ITEM "D", M.D., 4-10-9?

REV.4: ITEM "B" WAS. 470" LONG, M.D., 10-16-91 ADDED 2600 8, 3200 SERIES

REV.3: ITEM"A"O.D. WAS.750", I.D. WAS.500", UPDATED FINISH NOTE 2, J.J., 8-16-91



1.80 → 35° .562 DIA. REF.



BRACKET: MOUNTING HYDRAULIC SYSTEM INSTALLATION FOR WEGMANN TRUCK ONE REQUIRED PER TRUCK CAR SERIES: 2400, 2600, & 3200 CTA LOT NO. 4003192

MATERIAL: .12" THK. (11 GA.) AISI 1010/1020 LOW CARBON STEEL.

- 1. PUNCHED SURFACES TO BE FLAT AND FREE OF ANY BURRS OR SHARP EDGES INCLUDING AROUND HOLES.
- 2. SOLVENT CLEAN OF ANY FOREIGN MATTER AND REMOVE ANY WELD SPLATTER, PAINT WITH ONE COAT OF RUSTOLEUM RED PRIMER X-60, TWO COAT OF CLEAR LACQUER.
- 3. TOLERANCES UNLESS OTHERWISE SPECIFIED:

DECIMAL .XXX ± .3° .XXX ± .010* ANGULAR ± 2°

4. REFERENCE B/V P.L. 3-4-51

REV. 2: DIMENSIONS: 4.5 WAS 4.37, 3.75 WAS 3.62, AND .81 WAS .75, PT 03/31/08 REV. 1: REDRAWN ON AUTOCAD. REVISED PART FOR BETTER FIT AND FUNCTION, PT 12/14/07

DIMENSIONING & TOLERANCING PER MISI (USASI) Y14.5 UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES

TOLERANCES: ANGLES ±5' FRACTIONS: ±1/64 DECIMALS: .XX ±.01 DECIMALS: .XXX ±.01

RNET & BOLT MARCH: ±05
BDIO NOR: ±03 ON .03 & .06
±03 ON .03 & GREVERIC Checked ____ M.D.
SHEET METAL CORNER ROOS

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RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

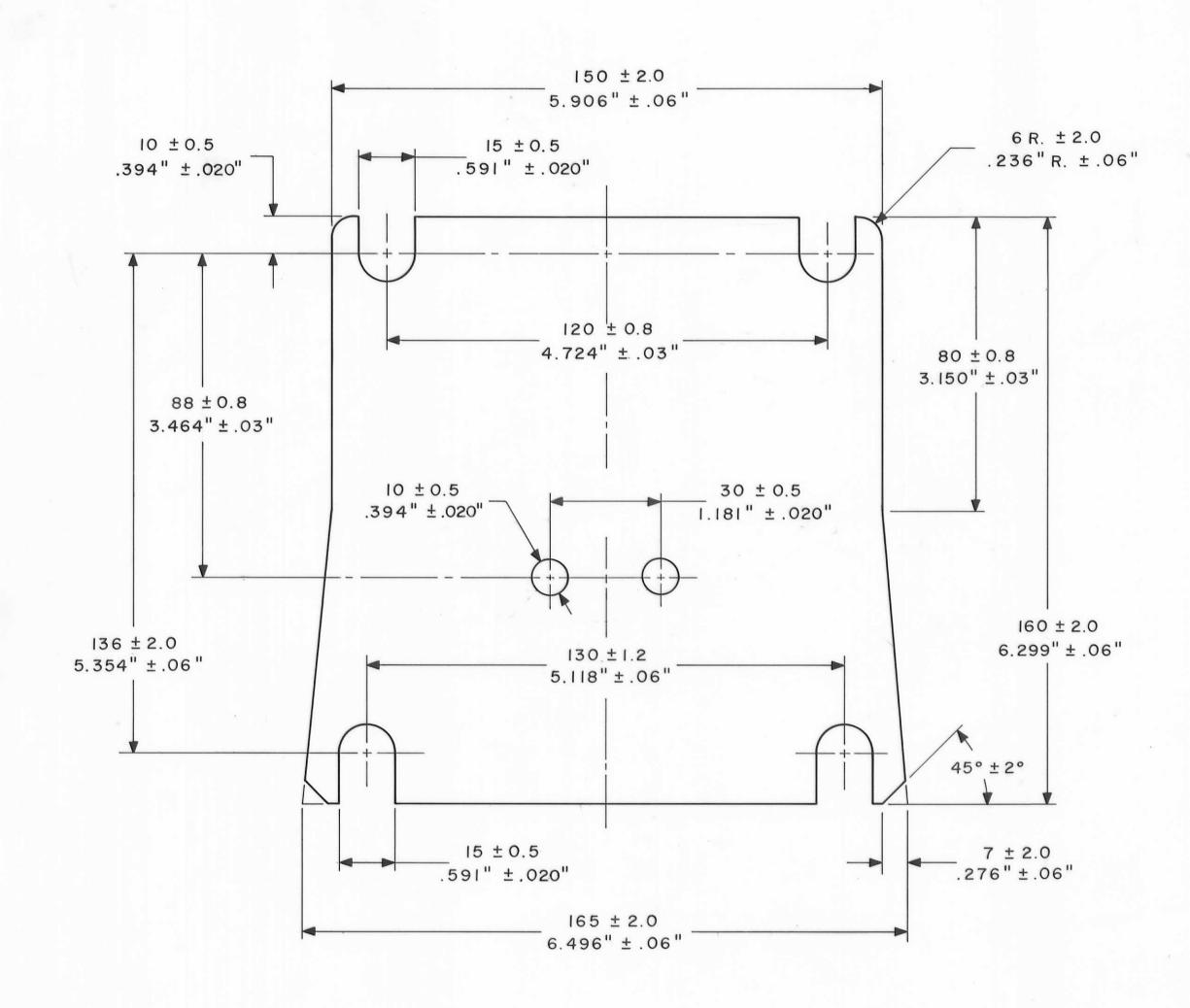
> BRACKET: MOUNTING HYDRAULIC SYSTEM INSTALLATION FOR WEGMANN TRUCK CAR SERIES: 2400, 2600, 3200

Scale_NONE_Date_12/14/2007 ager, Engs & Rechelos Sardons

R-3-1160

S:\Engineer\Data\Drawings\Ctarail\31160

ITEM	LOT NO.	THICKNESS
А	4003123	3 m,m / 11 GA.(.120")
В	4003124	4 mm / 9 GA. (.149")



SHIMS: VARIOUS, FOR

TRUCK TRANSVERSE SUSPENSION

QUANTITY: AS REQUIRED

CAR SERIES: 2400,2600 & 3200

MATERIAL: AISI 1010/1020 LOW CARBON STEEL SHEET

NOTES:

- CLEAN FLAME CUT (DESCALED AND DEBURRED) IS PERMISSIBLE.
- SHIMS TO BE FLAT AND FREE OF DISTORTION, BURRS AND SHARP DRAG EDGES.
- 3. SOLVENT CLEAN OF ALL FOREIGN MATTER AND PAINT WITH ONE COAT OF RUSTOLEUM X60 RED PRIMER (20 LL THICKNESS) AND TWO COATS OF RUSTOLEUM R 470 ALUMINUM PAINT (30 LL THICKNESS EACH)
- 4. ALL DIMENSIONS ARE SHOWN MM INCHES

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED SURFACE FINISH 8007
DIMENSIONS ARE IN INCHES
TOLERANCES: ANGLES ±
FRACTIONS: ±
DECIMALS .XX ±
DECIMALS .XXX ±
RIVET & BOLT EDGE MARGIN ± .05
BEND RADII .01 ON .03 & .06

.16

BEND RADII .01 ON .03 & .06

± .03 ON .09 & GREATER

SHEET METAL CORNER RADII

INT .19 EXT .25

Drawn Monager.

RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

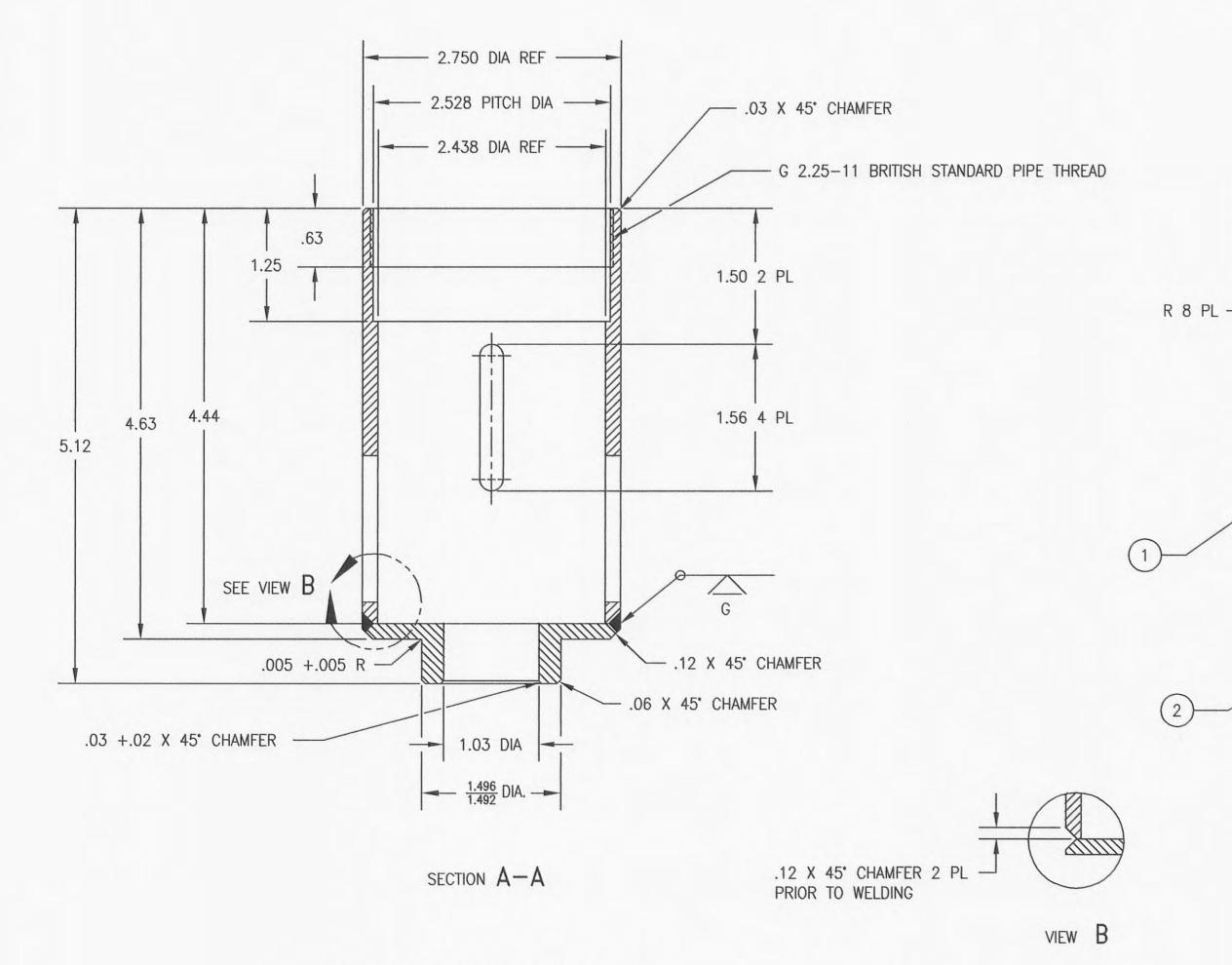
SHIMS: VARIOUS, FOR TRUCK TRANSVERSE SUSPENSION CAR SERIES: 2400, 2600 & 3200

Drawn MES Scale FULL Date 10-8-92 R - 3 - 1164

Checked Yesun Tag 11-4-92 Approved

Manager, Technical Services General Manager, Eng & Tech Services

Next Assy.



HOUSING: SPRING, COMPRESSION; USED ON SUSPENSION UNIT FOR MAGNETIC TRACK BRAKE. 4 REQUIRED PER TRUCK ASSEMBLY CTA LOT NO. 4183062.

MATERIAL:

- (1) MECHANICAL TUBING, CARBON, SEAMLESS, ASTM A519: 1026. 2.750 O.D. X 2.438 I.D.
- 1018 (REF: UNS 10180) 2.750 DIA.

REV.1: REVISED TOLERANCE ON A-A SECTION: WAS 1.4969/1.4944,

NOTES:

- 1. REMOVE ALL BURRS AND SHARP EDGES.
- 2. DIMENSIONS SHOWN ARE AFTER WELDING, MACHINING AND PLATING.
- 3. FINISH: AFTER MACHINING, ZINC PLATE PER ASTM B633, SC 3, TYPE II.

DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES

.XXX ±.010

RIVET & BOLT MARGIN: ±.05



RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

2.63 2 PL

HOUSING: SPRING COMPRESSION, USED ON SUSPENSION UNIT FOR MAGNETIC TRACK BRAKE CAR SERIES: 2400, 2600 & 3200

R - 3 - 1167General Manager, Engrg & Technical Services

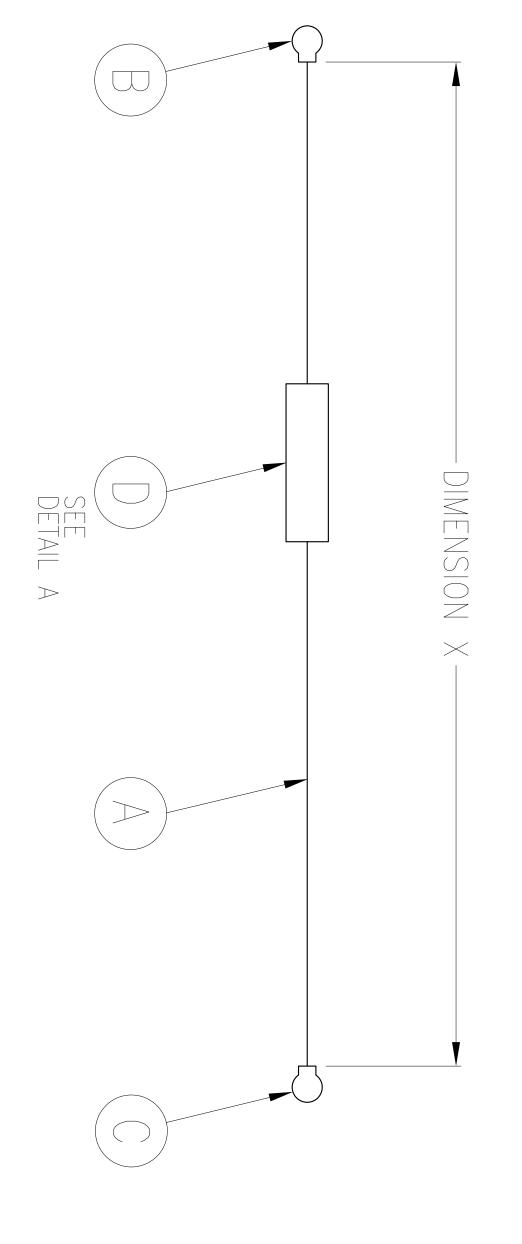
| NEXT . KNORR P.L. ASSY. 6-2,PG.7

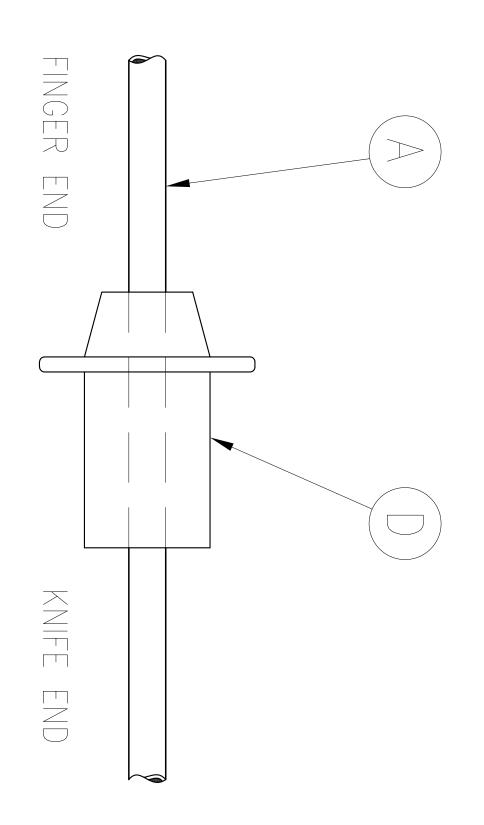
(2) STEEL, CARBON, ASTM A576:

DRAWN FROM SAMPLE KNORR PART NO. 3G05048

INT .19 EXT .25 .16 .00 NOW 1.496/1.492. P.T. 2/24/03.

1928013		HOSE, 3/4" ID	1608259	1608265 3/8" TERMINAL	3/8" FLAG TERMINAL 16	CABLE, NEOPRENE 2/0 3104468	4, 32 41"	5143029 24,	BOLSTER TO CAR BODY (CLAMSHELL SIDE) 51.
1928013	1 2 33	HOSE, 3/4" ID	1608259	1608259 3/8" TERMINAL	3/8" TERMINAL 16	CABLE, NEOPRENE 2/0 3104468	4, 32 36"	43028 24,	BOLSTER TO CAR BODY CABLE 514
		N	1608099	1608099 3/8" HD TERMINAL	3/8" HD TERMINAL 16	" CABLE, NEOPRENE 2/0 3104468	ALL 27.5"	102220	BRUSH BOX TO MOTOR CABLE 31(
1928013	20"	HOSE, 3/4" ID	1608259	1608265 3/8" TERMINAL	3/8" FLAG TERMINAL 16	CABLE, NEOPRENE 2/0 3104468	26 55"	02315	BOLSTER TO CAR BODY CABLE (CLAMSHELL SIDE) 310
			1608099	1608259 3/8" HD TERMINAL	3/8" TERMINAL 16	CABLE, NEOPRENE 2/0 3104468	ALL 52"	4242745	TRUCK FRAME TO BRUSH BOX CABLE 42.
1928013	12;	HOSE, 3/4" ID	1608259	1608259 3/8" TERMINAL	3/8" TERMINAL 16	CABLE, NEOPRENE 2/0 3104468	26 32"	42709	BOLSTER TO CAR BODY CABLE 51.
			1608259	1608259 3/8" TERMINAL	3/8" TERMINAL 16	CABLE, NEOPRENE 2/0 3104468	ALL 26"	142708	TRUCK FRAME TO BOLSTER CABLE 51.
			1608022	1608022 KNIFE CONNECTOR	KNIFE CONNECTOR 16	CABLE, NEOPRENE 2/0 3104468	ALL 96.75"	4002660	FF JUMPER CABLE 400
4240117		BUSHING (see Detail A)	1608022 BU	5155041 KNIFE CONNECTOR	CONTACT FINGER 51	CABLE, NEOPRENE 2/0 3104468	ALL 67"	142702	A1-4 & F1-4 CLAMSHELL CABLE 51,
		N/A	1608263	608263 3/8" TERMINAL	3/8" TERMINAL 16	CABLE, NEOPRENE 1/0 3104471	ALL 54"	4242755	"H" FRAME TO TRUCK FRAME CABLE POSITION 1 OR 4 42,
			1608263	1608263 3/8" TERMINAL	3/8" TERMINAL 16	CABLE, NEOPRENE 1/0 3104471	ALL 27"	4242754	FRAME TO TRUCK FRAME CABLE POSITION 1 OR 4
		N/A	1608106	1608039 5/8" TERMINAL	5/8" FLAG TERMINAL 16	CABLE, NEOPRENE 4/0 3103372	ALL 150"	4002615	CABLE, BEAM TO BEAM
			1608003	1608106 KNIFE CONNECTOR	5/8" TERMINAL 16	CABLE, NEOPRENE 4/0 3103372	32 103"	03202	S1 CABLE, BEAM TO CARBODY 310
			1608003	1608106 KNIFE CONNECTOR	5/8" TERMINAL 16	CABLE, NEOPRENE 4/0 3103372	24 100"	4002654	S1 CABLE, BEAM TO CARBODY 400
		NA	1608003	1608106 KNIFE CONNECTOR	5/8" TERMINAL 16	CABLE, NEOPRENE 4/0 3103372	26 95"	4002653	S1 CABLE, BEAM TO CARBODY 400
				TEM NO.			SERIES DIM.X		CABLE DESCRIPTION ITEM





BUSHING ORIENTATION

- REMOVED DISCONTINUED ITEM 5143027, REVISED 5142708 TO ALL AND CORRECT LENGTH FOR 5143029 WAS 39" NOW 41". CA 5-8-07
- REINSTATED THE ITEM NUMBERS FOR THE 2400, AND 3200 SI BEAM TO CARBODY ASSEMBLIES. CA 5-15-06
- REV. SPECIFIED CAR SERIES IN A SEPARATE COLOMN, ADDED THREE CABLES SPECIFIC TO 24 AND 32 ONLY. C.A. 01/21/04.
- REV. 6: REMOVED NARROW RADIUS BEND FLAG TERMINAL (ITEM # 1608131). ADDED WIDE RADIUS BEND FLAG TERMINAL (ITEM # 1608039). C.A. 01/21/04.
- DELETED DISCONTINUED CABLE ITEM NO'S: 4002654 (S1 BEAM-TO-BEAM), 5142704 (FF2-3), 5142705 (A2-3), 5142706 (F1-4)& 5142707 (A1-4). ADDED NEW CABLE ITEM NO'S: 4002615 (S1 BEAM-TO-BEAM) & 5142702 (A & F1-4). INCREASED CABLE LENGTH FOR 4002653 (S1 BEAM TO CARBODY). C.A. 7/18/02.
- ADDED CABLES 4002653, 4002654, 4242754 & 4242755. ALSO ADDED BUSHING 4240117 TO CABLES 5142704, 5142705, 5142706 & 5142707. T.E.B., 7/11/88.
- ADDED BRUSH BOX TO MOTOR CABLE. ITEM NO. 3102315 WAS 5143029, WAS 39" LONG AND USED ITEM NO. 1608259 FOR "B" END TERMINAL. "ITEM D" WAS ITEM NO. 1923225. M. OSULLIVAN, 08/18/87.
- FF JUMPER CABLE WAS ITEM NO. 4242744. T.E.B.,07/08/86.
- REV. 2: REV. 1: CABLE 5143029 WAS ITEM NO. 5142710. 65" LONG AND REQ'D "ITEM E" ($\frac{5}{8}$ " I.D. \times 6" LONG HOSE M/F 1923225), "ITEM D" WAS 12" LONG. T.E.B. 06/04/86.

BUSHING TO BE FINGER CONTACT ATTACHMENT INSTALLED
OR KNIFE PRIOR TO EITHER CONNECTOR

CABLE ASSY'S: TRUCK WIRING FABRICATE IN SKOKIE SHOP AS NEEDED CAR SERIES: 2400, 2600, 3200

RAIL OPERAT	

NGINEERING SERVICES

ERING & TECHNICAL SE

CABLE ASSY'S

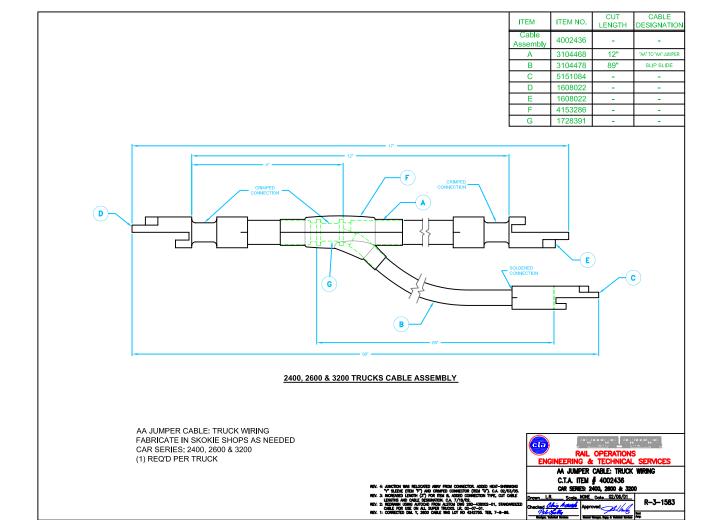
SUPER TRUCK WIRING

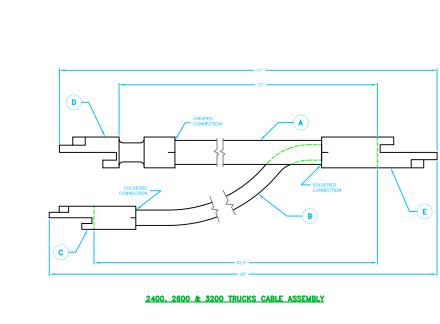
SERIES: 2400, 2600, 3

Checked Weght Land Manager, Technical Services Date 03/

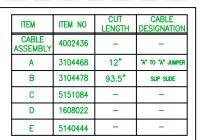
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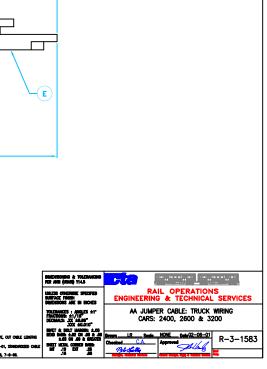
Approved Next
General Manager, Engrg & Technical Services
Assy. 77 3 1582

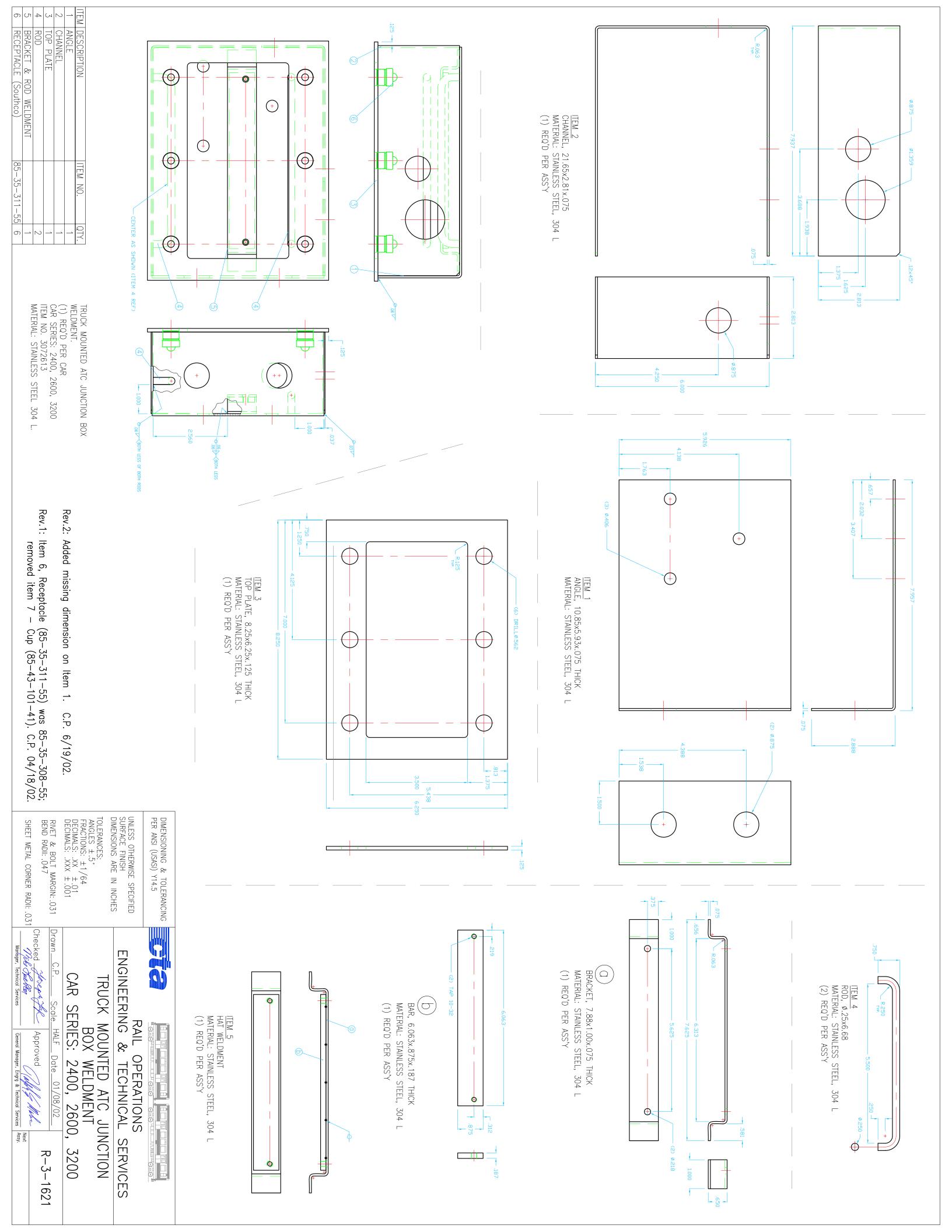


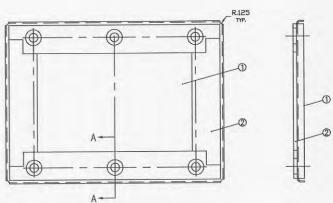


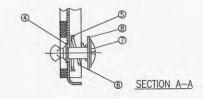
AA JUMPER CABLE: TRUCK WIRING FABRICATE IN SKOKIE SHOPS AS NEEDED CARS: 2400, 2600 & 3200











COVER ASS'Y WELDMENT, ATC JUNCTION BOX. (1) REQ'D PER CAR CAR SERIES: 2400, 2600, 3200 ITEM NO. 3072618

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DIMENSIONING & TOLERANC PER ANSI (USASI) Y14.5 UNLESS OTHERWISE SPECIFIES SURFACE FINISH DIMENSIONS ARE IN INCHES				
SURFACE FINISH				
Dimentoletto Ivia II. II.	SURI	ACE F	INISH	

ANGLES ±.5*
FRACTIONS: ±1/64
DECIMALS: .XX ±.01
DECIMALS: .XXX ±.001 RIVET & BOLT MARGIN: .031 BEND RADII: .047

SHEET METAL CORNER RADII: .031

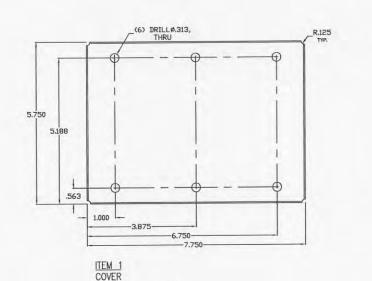
CAR SERIES: 2400, 2600, 3200 Scale_HALF_Date_01/08/02

RAIL OPERATIONS

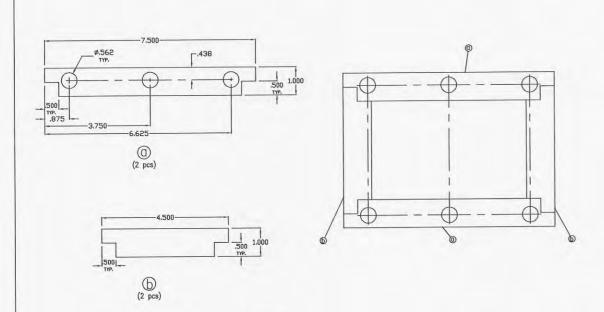
ENGINEERING & TECHNICAL SERVICES COVER: ATC JUNCTION BOX

R-3-1622

R:\Drawings\Ctarail\31622



(1) REQ'D PER ASS'Y



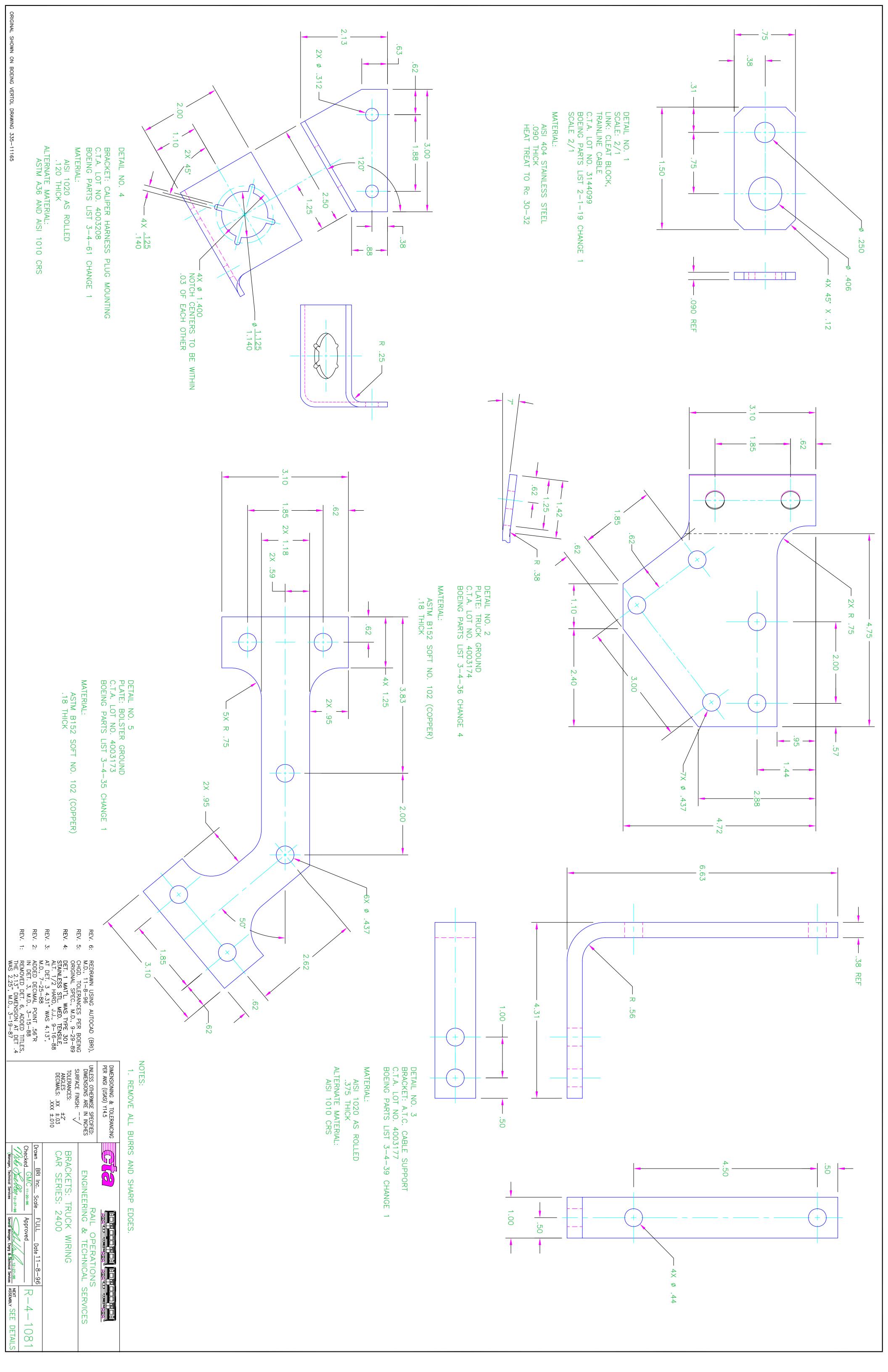
ITEM 2 GASKET

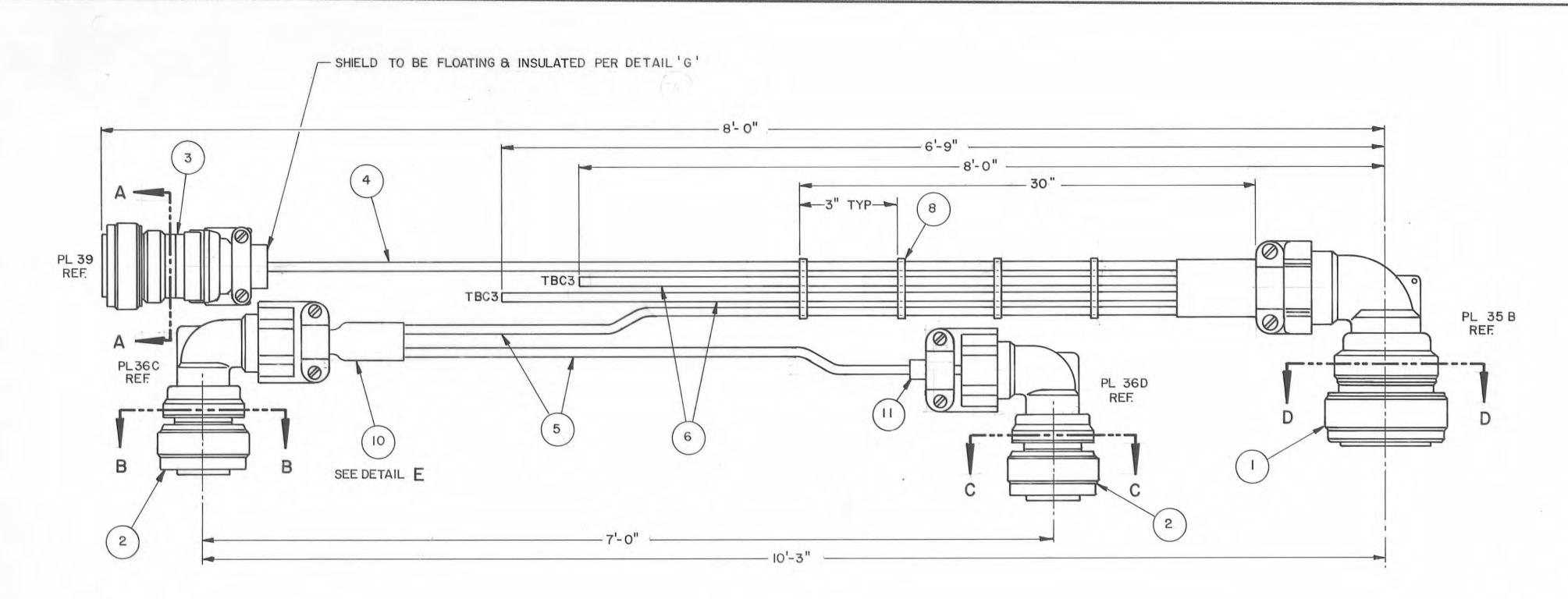
(1) REQ'D PER ASS'Y

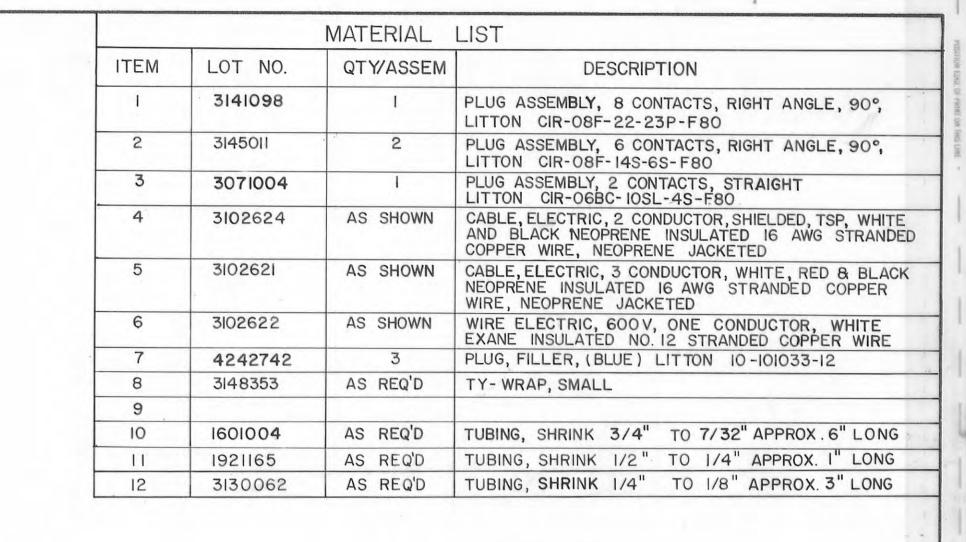
MATERIAL: 1" THICK NEOPRENE

MATERIAL: STAINLESS STEEL, 304 L, 8.125x6.125x.04 THICK

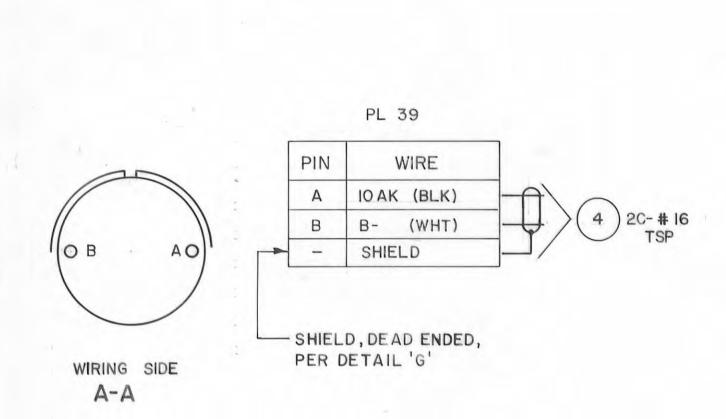
Rev.1: Item 7, 85-11-500-20 was 85-11-420-20; added item 8. C.P. 04/18/02.

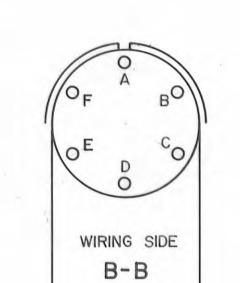


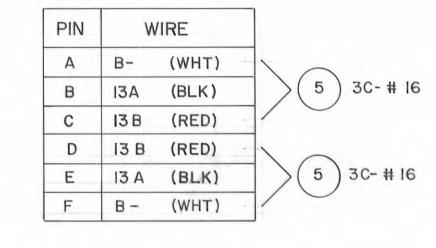




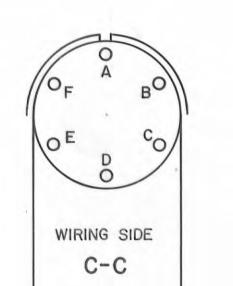
- I.) STRIP OUTER JACKET OF BOTH 3 CONDUCTOR CABLES, ITEM 5, APPROX. 4", INSTALL HEAT SHRINK, ITEM IO, ASSEMBLE PLUG ITEM 2
- 2.) SLIDE HEAT SHRINK, ITEM 10, INTO PLUG APPROX. I" (AS SHOWN) WHILE APPLYING HEAT.
- 3.) STRIP OUTER INSULATION (JACKET) BACK APPROX. 3" FROM END OF CABLE.
- 4.) CUT OFF MYLAR SHIELD.
- 5.) APPLY SHRINK TUBING, ITEM NO. 12, OVER THE DRAIN WIRE AND SHRINK.
- 6.) CUT OFF DRAIN WIRE AND/OR CONDUCTOR AS REQ'D.
- 7.) APPLY A PIECE OF SHRINK TUBING, ITEM NO. 11, PARTIALLY OVER CABLE, CONDUCTOR, AND DRAIN WIRE AND SHRINK THE TUBING.
- 8.) STRIP ENDS OF CONDUCTORS AND DRAIN WIRE.
- 9.) INSTALL FILLER PLUGS, ITEM 7, INTO WATERPROOF GROMMET BEFORE FINAL ASSEMBLY, AND OMIT PINS.

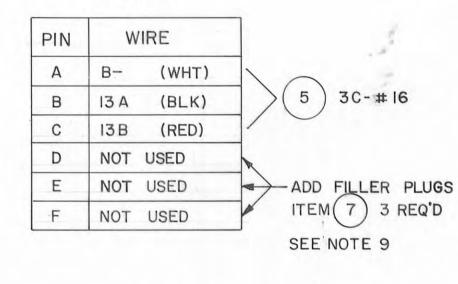




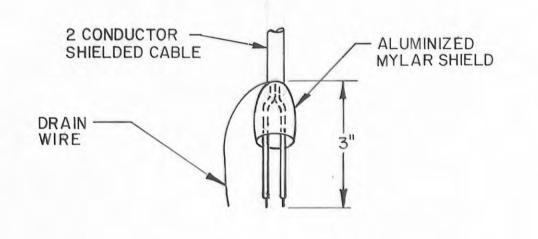


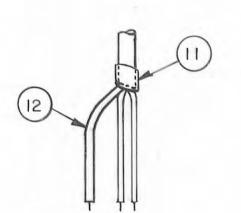
PL 36C





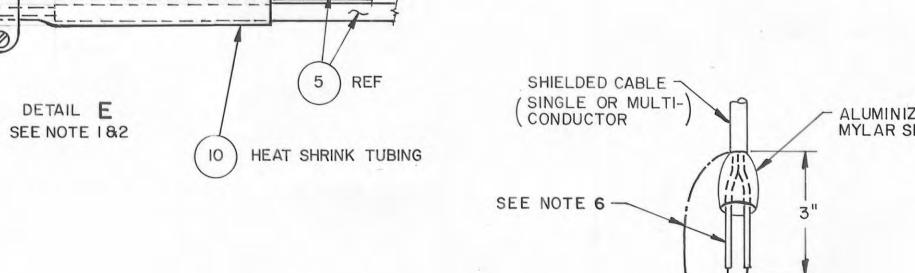
PL 36 D





DETAIL F

REFER TO NOTES: 3,4,5,7,88



REV. 3: REVISED PER AREA 425 FABRICATION PROCEDURE, T.E.B., R.S.(425),8-8-89 REV. 2: ADDED LOT NO'S TO ITEMS 4,5,86, M.D. ,12-4-87 REV. I: ADDED LOT NOS. TO ITEMS 187, CHGD. LOT NO. FOR ITEM 3, WAS

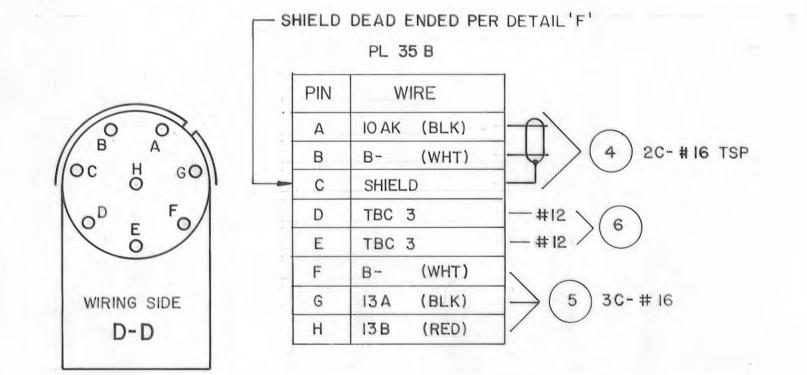
Engineering & Maintenance Division Equipment Engineering and

3141098, CHG'D. SECTION D-D PIN DESIGNATION, R.V.P., 9-16-86

Maintenance Department CABLE ASSEMBLY: CALIPER # 2 TRUCK, A & B CARS

CARS: 2601- 3200

Scale LNONE Date 5-10-85 Checked

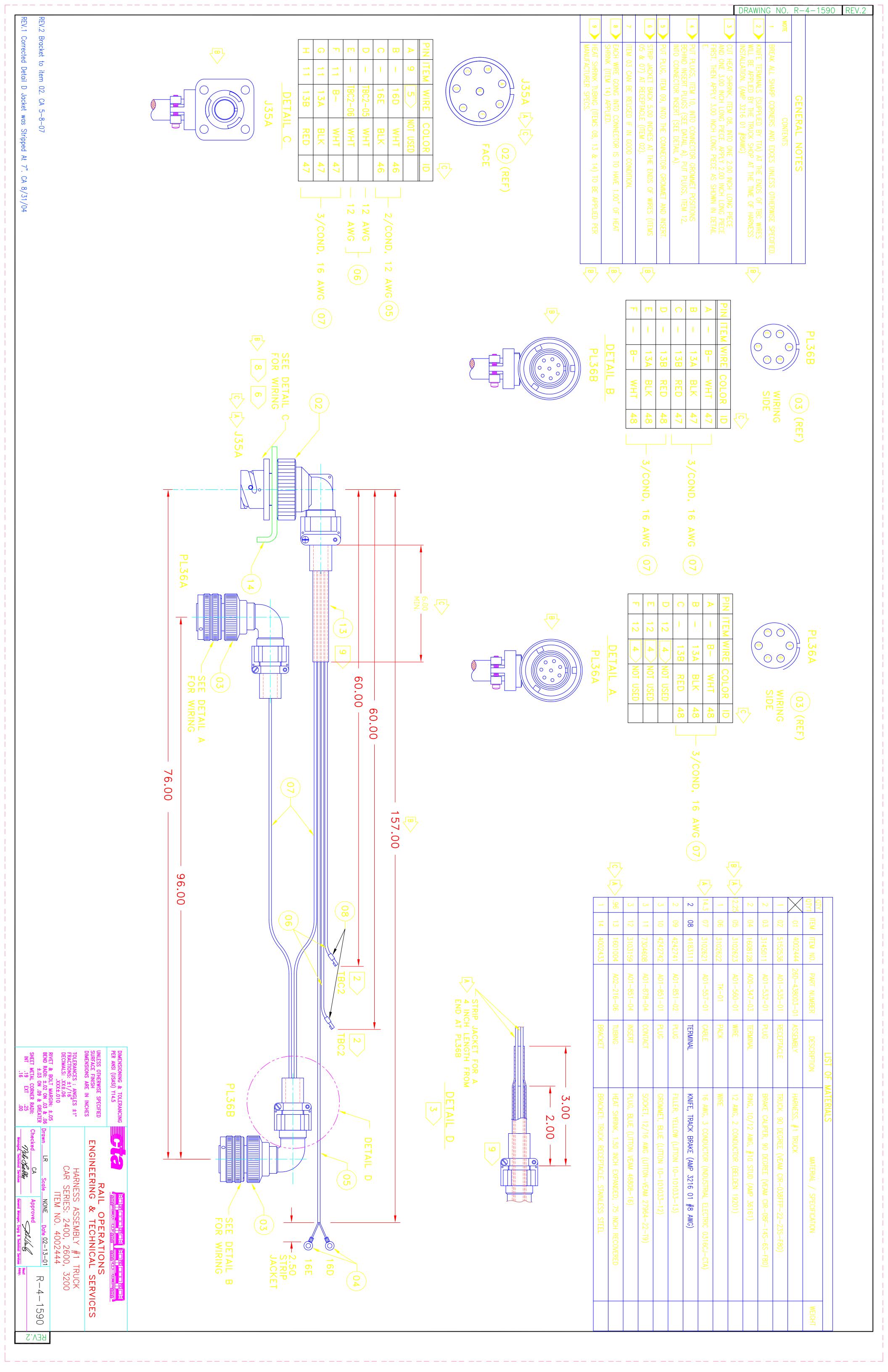


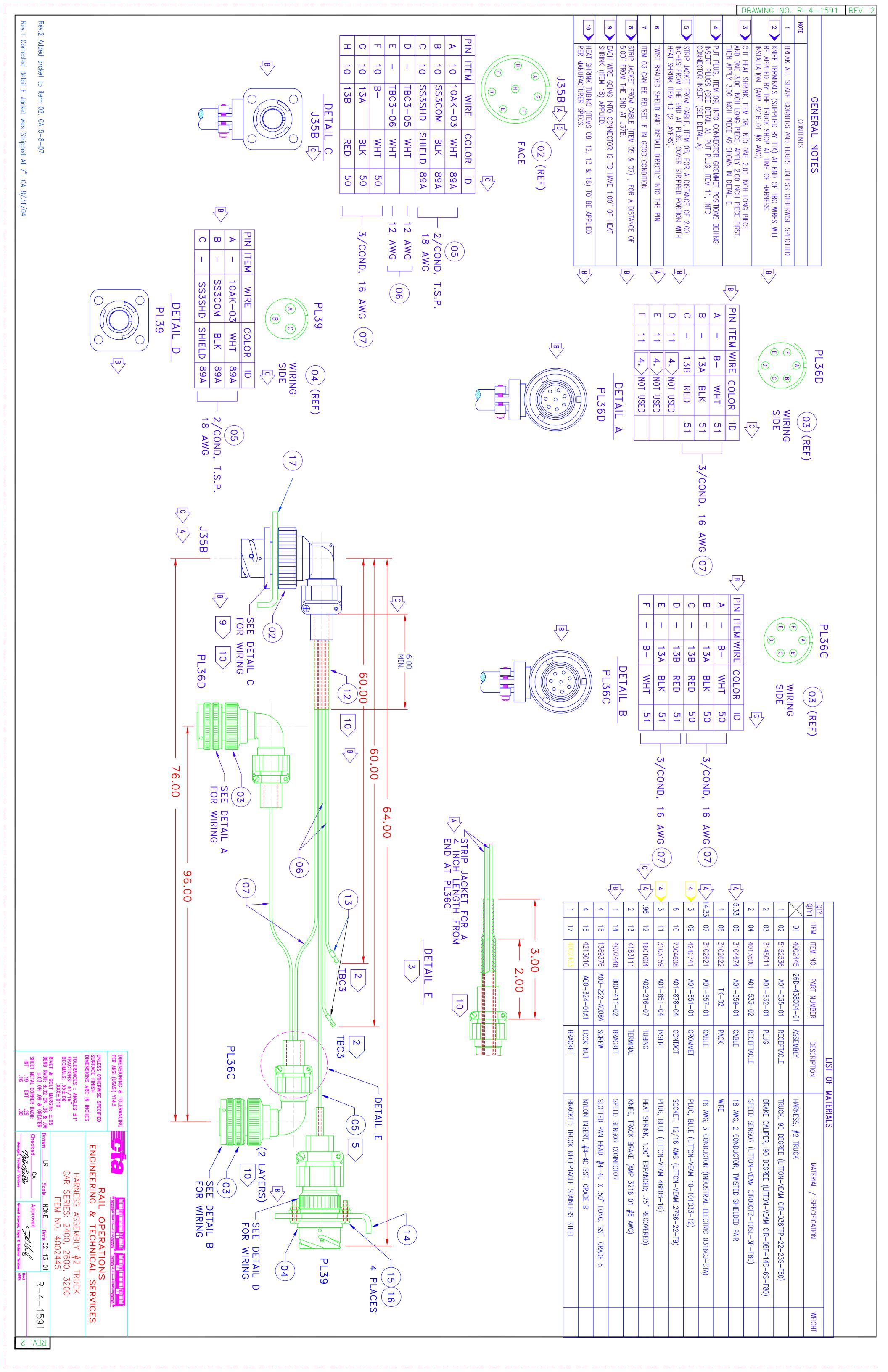
CABLE ASSEMBLY: CALIPER FOR NO. 2 TRUCK ON A & B CARS I REQ'D PER TRUCK CARS: 2601-3200 CTA LOT NO. 4182604, SR-42

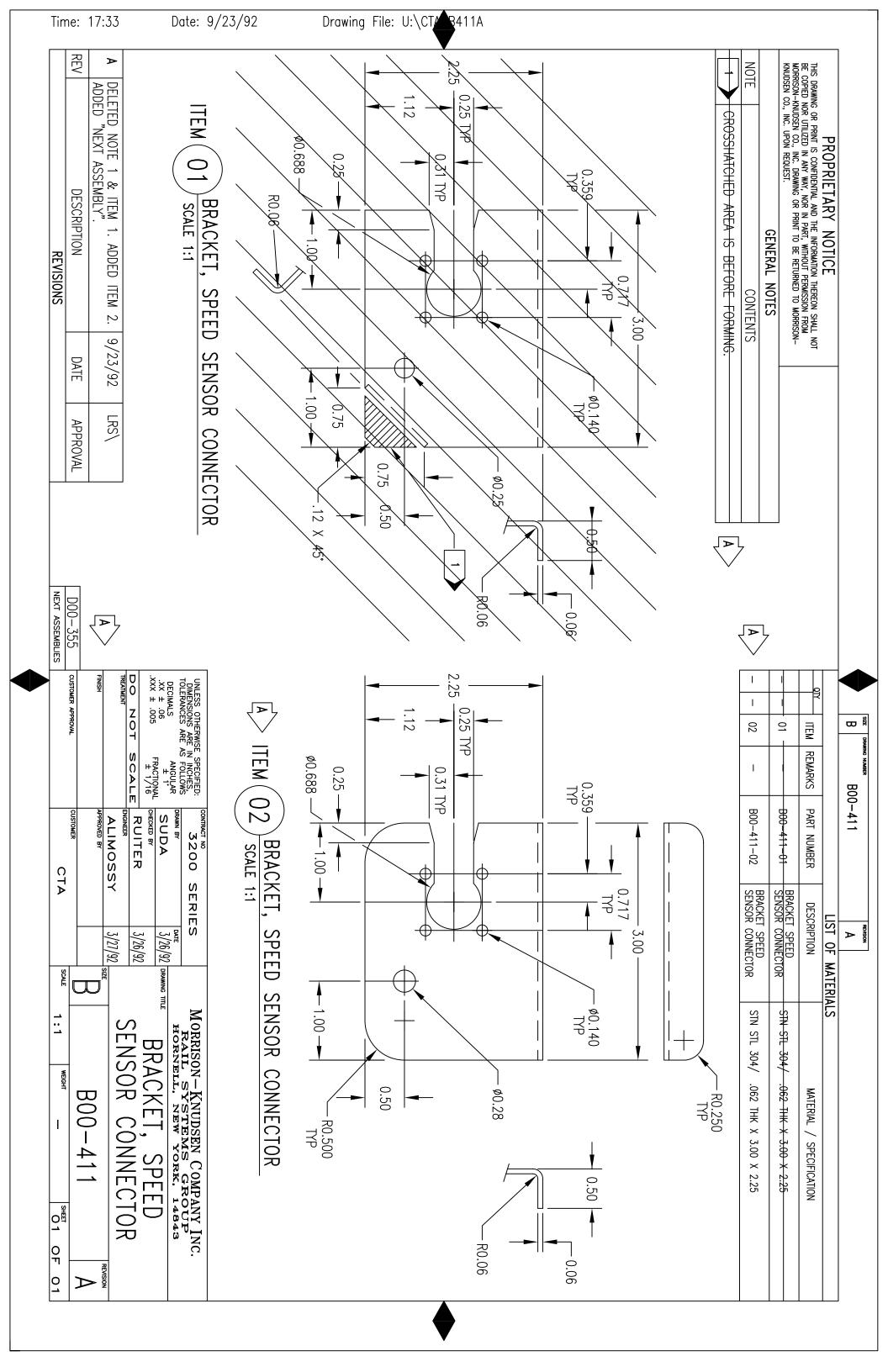
ALUMINIZED MYLAR SHIELD

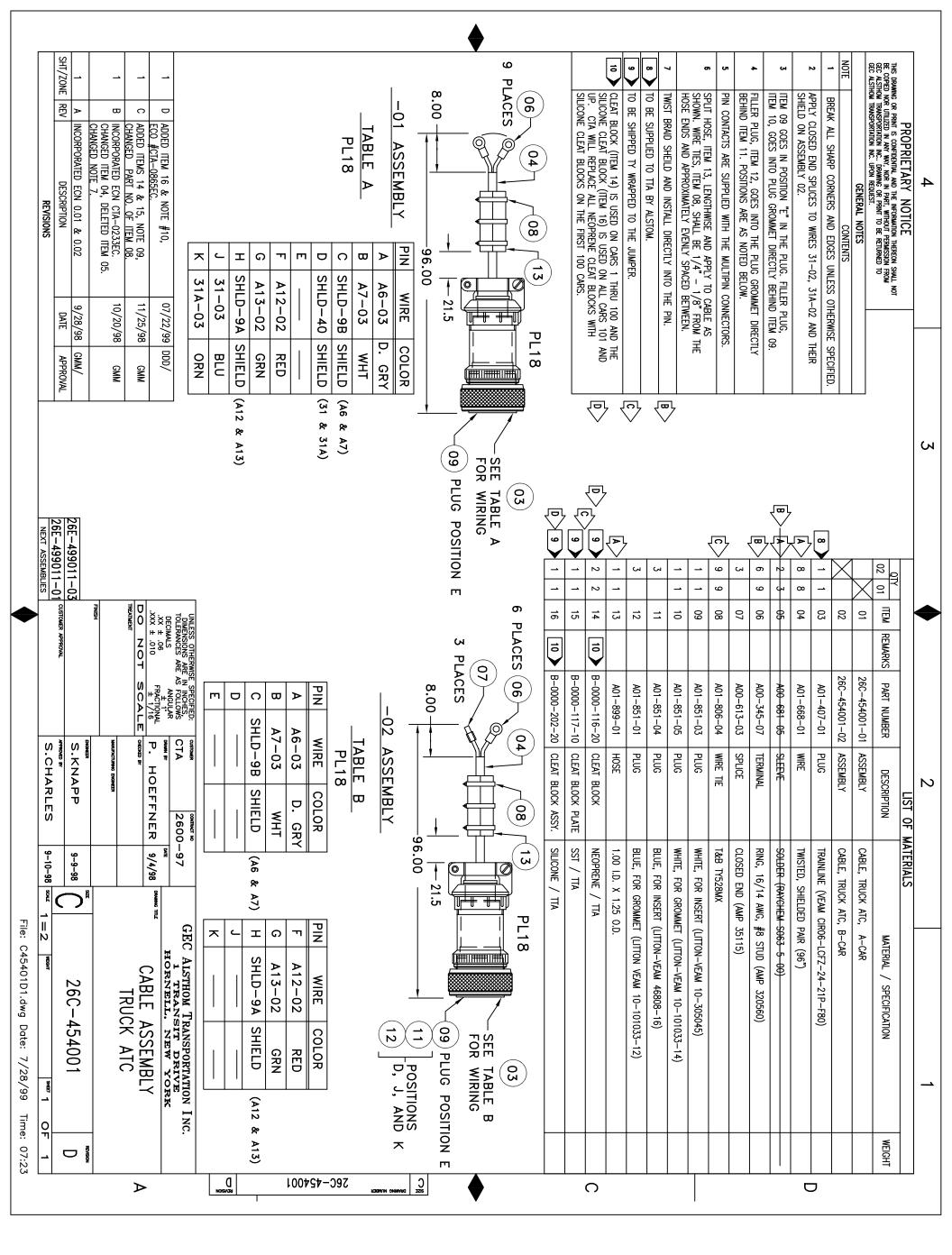
DETAIL G

REFER TO NOTES: 3,4,6,7,88









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NOTE SPEED SENSOR IS SUPPLIED WITH A 6 FT. 14 INCHES BEFORE ASSEMBLY. GENERAL NOTES CONTENTS LONG PIGTAIL. CUT TO

2

03

PURCHASE A02-205-04

RECEPTACLE

LITTON-VEAM P/N CIRO6CFZ-14S-10SL-3S-F80

PROPULSION SPEED/GE 41B581503P1

02

B00-097-01

SENSOR

01

C00-475-01

ASSEMBLY

PROPULSION

QTY

9

ITEM

REMARKS

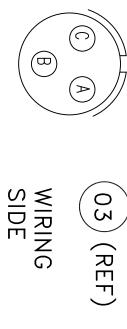
PART NUMBER

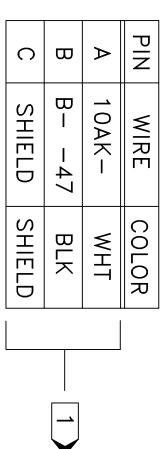
DESCRIPTION

MATERIAL / SPECIFICATION

2 ITEM 03 IS PURCHASED AT A 50% LEVEL. THE REMAINING CONNECTORS ARE TO BE TAKEN FROM THE "NO-MOTION" SPEED SENSOR, P/N B00-023-011, AND USED ON THIS ASSEMBLY.

W SOCKET CONTACTS ARE SUPPLIED WITH THE RECEPTACLE ITEM 03. THE CONTACTS ARE TO BE USED IN THE MULTIPIN RECEPTACLE



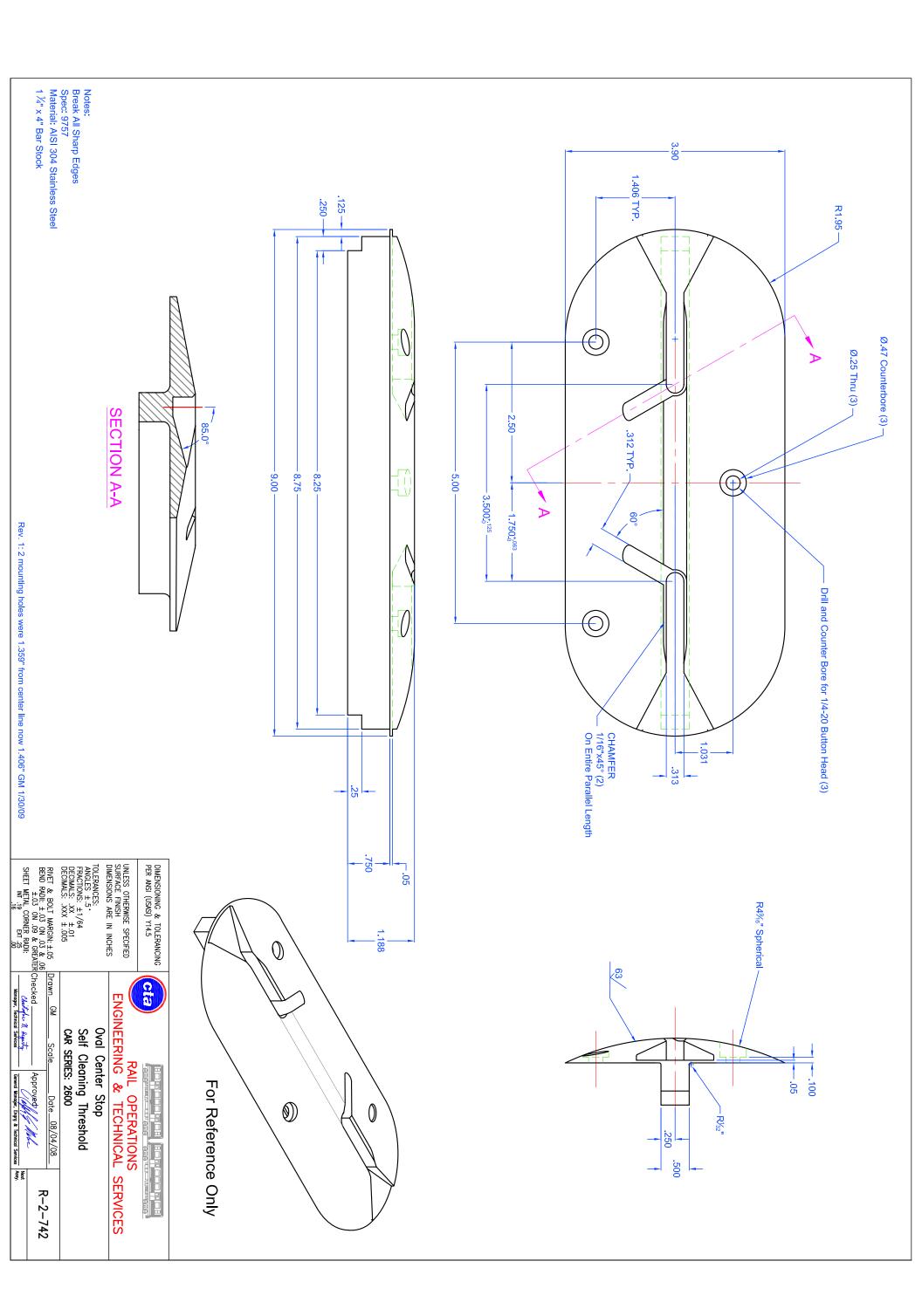


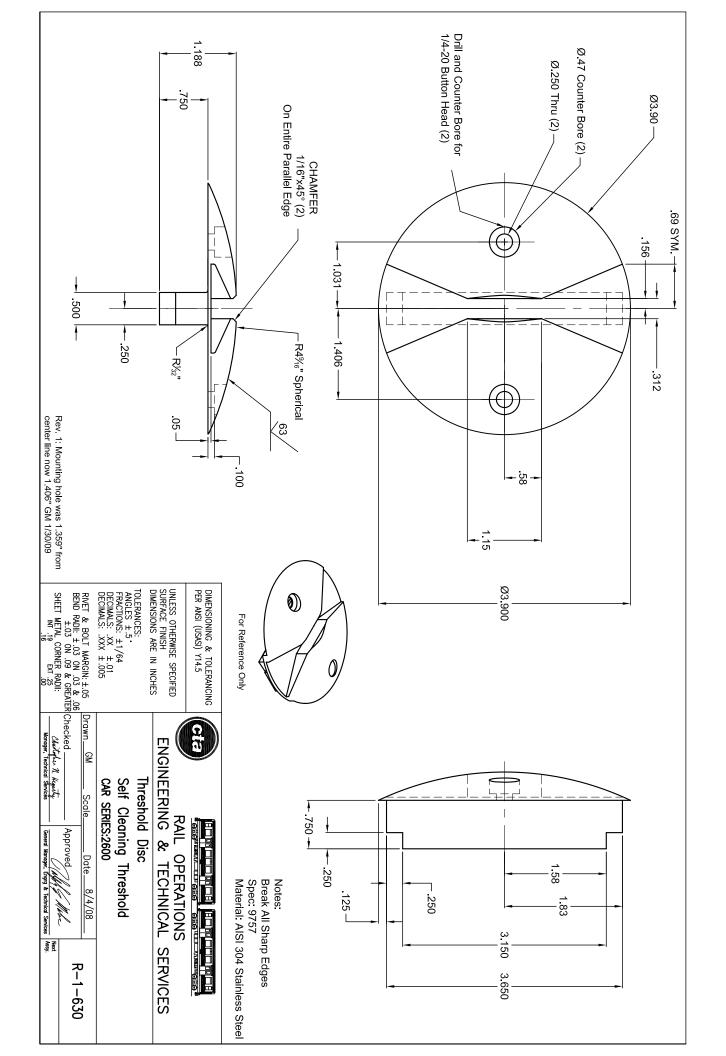
FOR

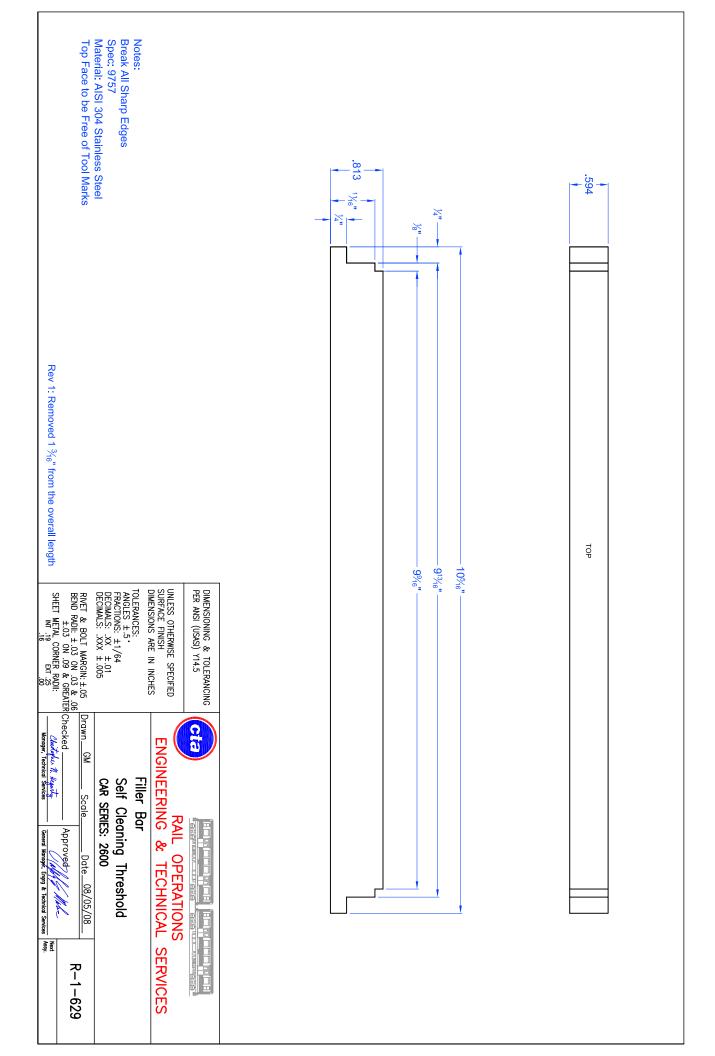
DETAIL A FOR WIRING	(03) (2) (3)			
	(02)			

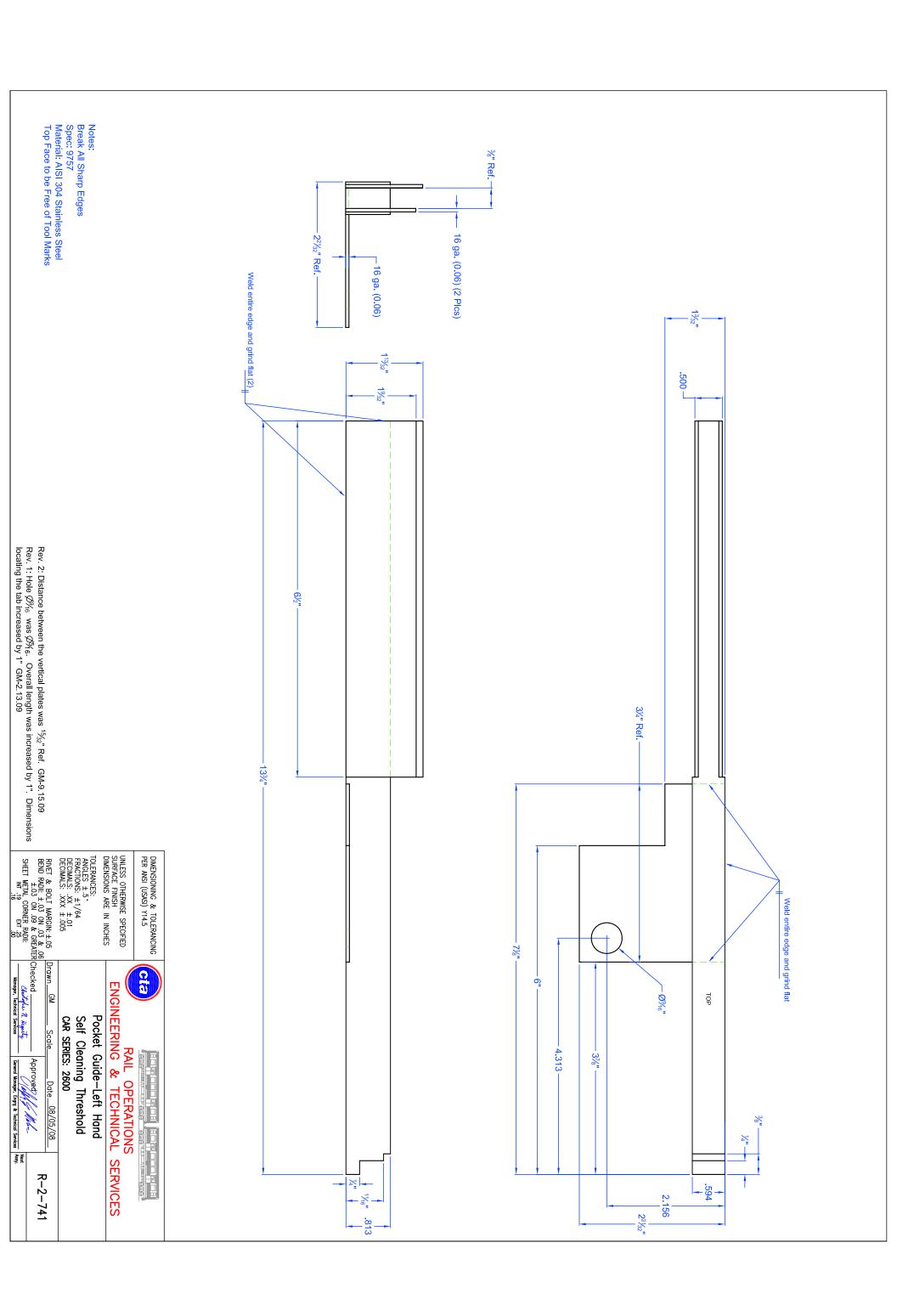
NEXT			REVISIONS		
ī	APPROVAL	DATE	DESCRIPTION	REV	ZONE REV
	WJC/SCK	051592	DELETED ITEM 04. ADDED NOTE 3 ITEM 03 WAS P/N A02-205-01	A	L/M
	DEH/	93AUG12	INCORPORATED ECN A.01, A.02	В	

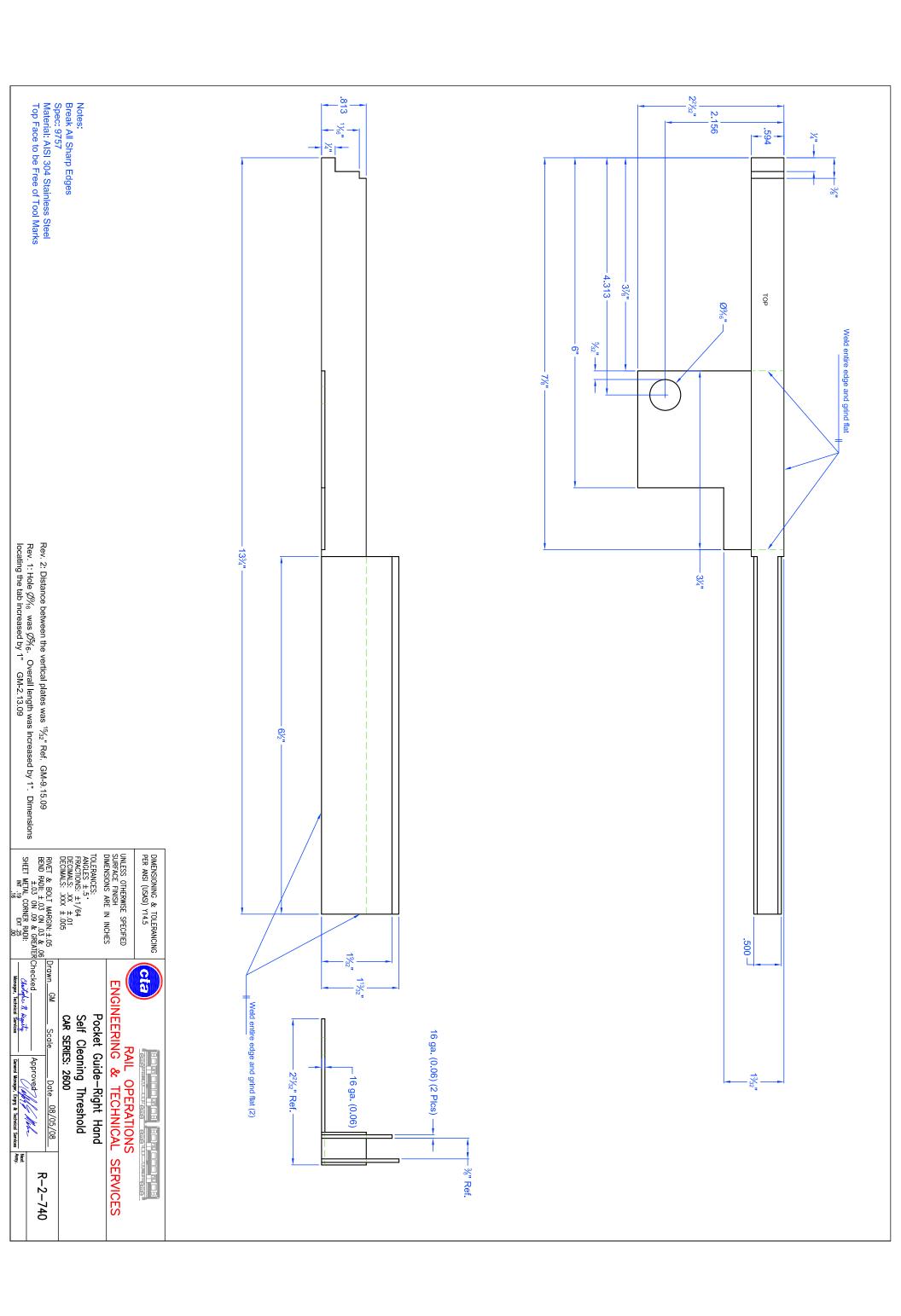
E00-600					
CUSTOMER APPROVAL		FINISH	1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES, TOLERANCES ARE AS FOLLOWS DECIMALS ANGULAR
				FRACTIONAL ± 1/16	E SPECIFIED: IN INCHES, AS FOLLOWS ANGULAR # 1°
CTA	S.KNAPP	ALIMOSSY	HARRINGTON 3,	SUDA	CONTRACT NO 3200 SERIE DRAWN BY DATE
	6/2/92	3/13/92	3/13/92	3/13/92	IE'S
SCALE NTS WEIGHT — SHEET 1 OF 1	C00-475 REMSION B	STEED SENSOR	AUUEMBLY, TROTOLUION	DRAWING TITLE	MORRISON-KNUDSEN COMPANY INC. RAIL SYSTEMS GROUP HORNELL, NEW YORK 14843

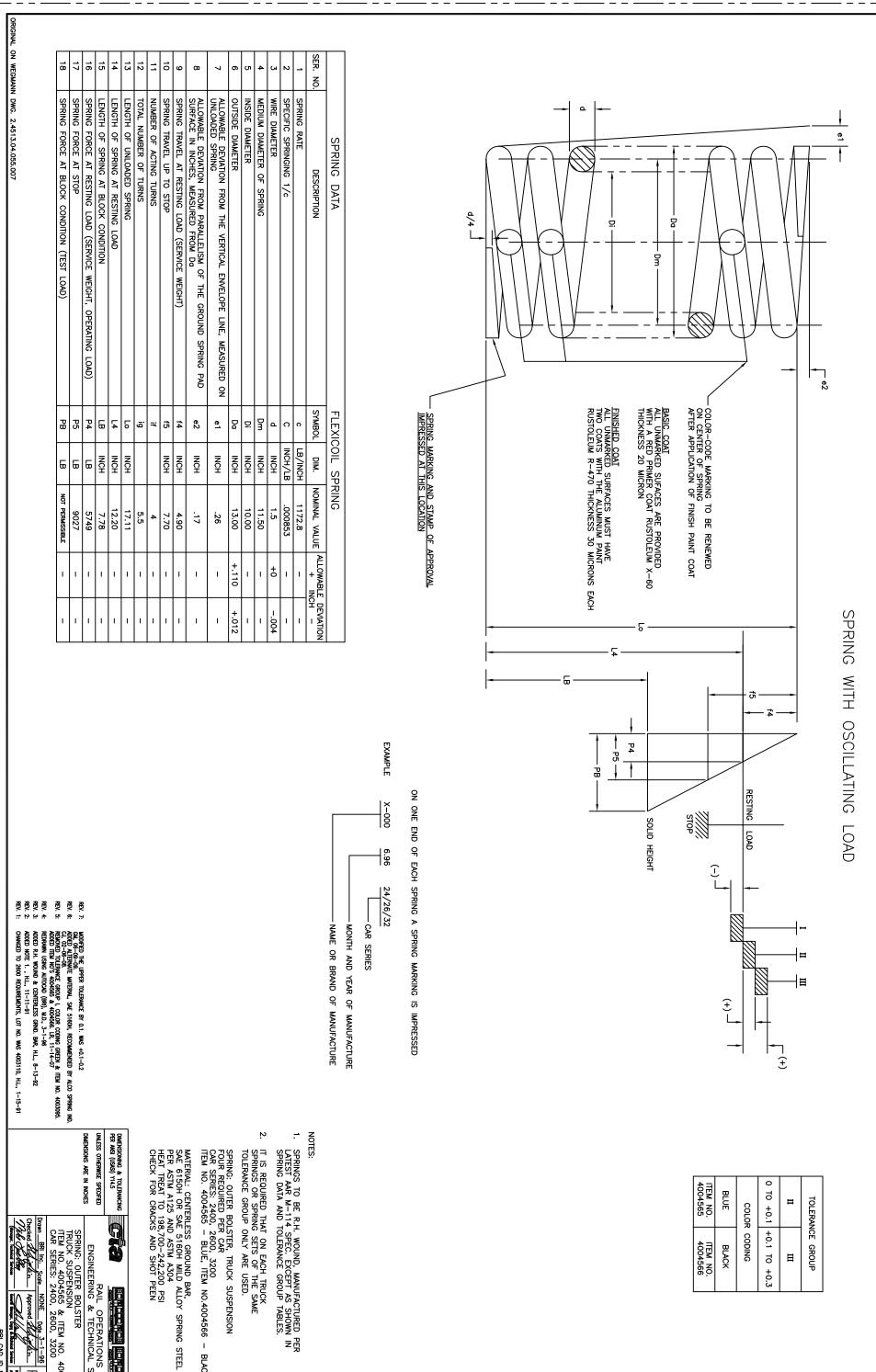












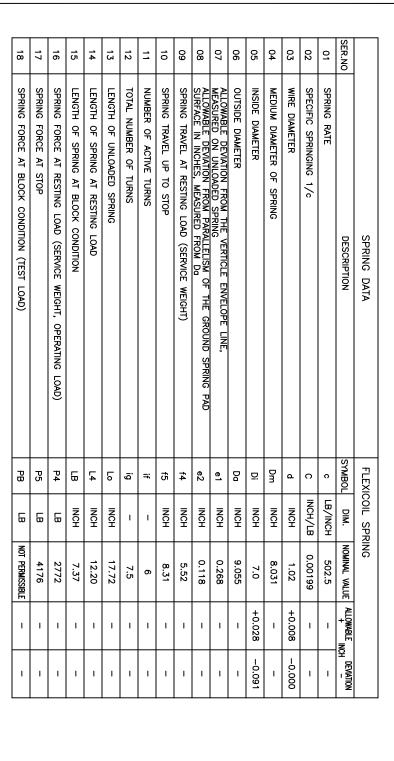
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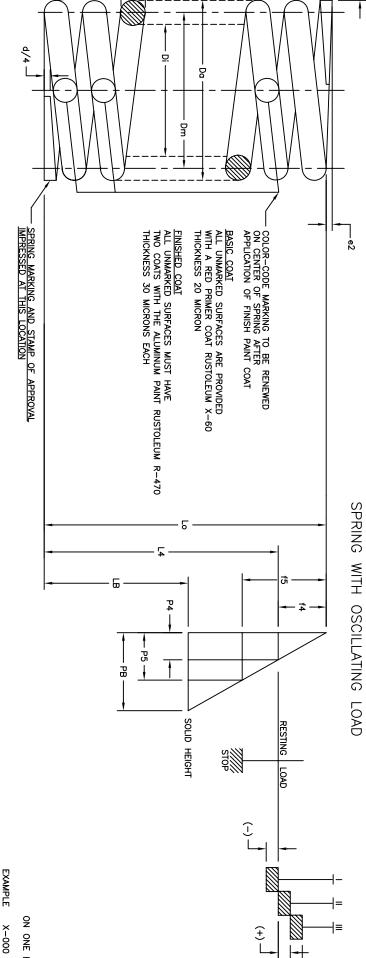
BRI CAD ID NO.:0017-001.DWG

BLACK

RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

SPRING: OUTER BOLSTER
TRUCK SUSPENSION
ITEM NO. 4004565 & ITEM NO. 4004566
CAR SERIES: 2400, 2600, 3200 R-4-1099





+ +

TO +0.1 +0.1 TO +0.3

=

COLOR CODING

TOLERANCE GROUP

BLUE

BLACK

ON ONE END OF EACH SPRING A SPRING MARKING IS IMPRESSED NAME OR BRAND OF MANUFACTURE MONTH AND YEAR OF MANUFACTURE CAR SERIES

SPRING: INNER BOLSTER, TRUCK SUSPENSION FOUR REQ'D PER CAR CAR SERIES: 2400, 2600, 3200 ITEM NO. 4004563 - BLUE, ITEM NO. 4004564 - BLACK MATERIAL: CENTERLESS GROUND BAR
SAE 6150H OR SAE 5160H MILD ALLOY SPRING
PER ASTM A125 and ASTM A304
HEAT TREAT TO 198,700—242,200 P.S.I.
CHECK FOR CRACKS AND SHOT PEENED

STEEL

NOTES:

SPRINGS TO BE L.H. WOUND, MANUFACTURED PER LATEST AAR M-114 SPEC. EXCEPT AS SHOWN IN SPRING DATA AND TOLERANCE GROUP TABLES.

2. IT IS REQUIRED THAT ON EACH TRUCK SPRINGS OR SPRING SETS OF THE SAME TOLERANCE GROUP ONLY ARE USED.

REV. 8:

REV. 5: 6: REV. 4: REV. 2: 1: REV. 7:

S: MODIFIED THE UPPER TOLERANCE BY 0.1. WAS +0.1-0.2
GM, 06-09-09
7: ADDED ALTERNATE MATERIAL, SAE 5160H, RECOMMENDED BY ALCO SPI
CJ, 02-06-08.
6: REMOYED TOLERANCE GROUP | & COLOR CODE GREEN. REMOYED ITEN
ADDED ITEM NO'S. 4004563 & 4004564., LR, 11-13-07.
6: MATERIALS MGT CHANGED ITEM NO. FROM 4003096 TO 4003100. LR,
5: MATERIALS MGT CHANGED ITEM NO. FROM 4003096 TO 4003100. LR,
6: REDRAWN USING AUTOCAD (BRI), M.D., 9-16-96
6: ADDED LH. WOUND & CENTERLESS GRND. BAR, H.L., 8-13-92
7: ADDED NOTE 1, ADDED H TO MAT'L., H.L., 11-11-91
7: CHANGED TO 2600 STYLE, LOT NO. WAS 4003111, H.L., 9-10-90

LR, 12-19-00.

ITEM NO. 4003100. SPRING IND. UNLESS OTHERWISE SPECIFED:
DIMENSIONS ARE IN INCHES
SURFACE FINISH: --/
TOLERANCES:
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DIMENSIONING & TOLERANCING PER ANSI (USASI) Y14.5

RAIL OPERATIONS ENGINEERING & TECHNICAL SERVICES

SPRING: INNER BOLSTER TRUCK SUSPENSION ITEM NO. 4004564 & ITEM NO. 4004564 CAR SERIES: 2400, 2600, 3200 CAR SERIES: 0400, 2600, 3200 CAR SERIES: 0400, 0400, 0400 CAR SERIES: 0400, 0400 CAR SERIES: 0400, 0400 CAR SERIES: 0400 CA

R-4-1100

General Banaper, Engry & Albahated Services ASSELIBLY

APPENDIX G

BID PROTEST PROCEDURES

CTA's protest procedures for all RFPs, IFBs and LIQs are available on-line in Chapter 15 of the following document:

http://www.transitchicago.com/assets/1/procurement/Procurement Policy and Procedures Version 4.pdf

Any protest regarding the solicitation, evaluation or award must be submitted in accordance with these protest procedures.

APPENDIX H

CONTRACTOR CERTIFICATIONS AND ACCEPTANCE

- Certification Regarding a Drug-free Workplace
- Certification of Primary Participant Regarding Debarment
- Certification of Lower Tier Participant(s) Regarding Debarment
- Certification Regarding Lobbying
- Proposer's Execution Signature Page
- Disclosure of Ownership
- Acceptance

CERTIFICATION REGARDING A DRUG FREE WORKPLACE

Pursuant to the definitions regarding a Drug Free Workplace provided in the Drug-Free Workplace Act of 1988, the Illinois Drug Free Workplace Act, 30 ILCS 580/1 et seg., the Illinois Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1 et seq., the Federal Acquisition Regulation System ("FAR"), Procedures for Transportation Workplace Drug & Alcohol Testing Programs, 49 CFR 40, and Prevention of Alcohol Misuse & Prohibited Drug Use in Transit ("Contractor") certifies to the best of its knowledge and Operation, 49 CFR 655, belief that it and its principals:

- 1. Maintain a workplace(s) (i.e. the site(s) for the performance of work done by the Contractor in connection with this contract) safe and free from "controlled substances" as described in the Controlled Substances Act (21 U.S.C. 812) and as further described in regulations 21 CFR 1308.11 - 1308.15.
- 2. Have neither been convicted, including entering a plea of 'nolo contendere,' nor had sentence imposed by any iudicial body charged with the responsibility to determine violations of Federal or State criminal drug statutes.
- 3. Publish and give notice to its employees and sub-contractors that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Contractor's workplace, and also that actions will be taken against any and all employees and sub-contractors found to be violation of same.
- 4. Provide that all employees engaged in the performance of the contract receive a copy of the above statement, that the employee will abide by the terms of this statement, and that the employee will notify the employer in writing of the employee's conviction no later than five (5) calendar days after such conviction.
- 5. Provide for appropriate action against an employee for violation of any and all of these rules and that an employee convicted of drug abuse must satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by Federal, State, or local health or law enforcement or other appropriate agency.
- 6. Comply with all drug and alcohol policies, testing programs and reporting requirements set forth in 49 CFR 40 and 49 CFR 655 whenever the Contractor, its employees, or sub-contractor(s) perform one or more of the following functions considered "safety-sensitive", as defined in 49 CFR 655:
 - a. Operating a revenue service vehicle, including when not in revenue service;
 - b. Operating a non-revenue service vehicle, when required to be operated by a holder of a Commercial Driver's License:
 - c. Controlling dispatch or movement of a revenue service vehicle;
 - d. Maintaining (including repairs, overhaul and rebuilding) a revenue service vehicle or equipment used in revenue service; or
 - e. Carrying a firearm for security purposes.
- 7. Have in place a written program which meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act (820 ILCS 265/1 et seg.) to be filed with the Authority and made available to the general public, or have in place a collective bargaining agreement which deals with the subject matter of the Substance Abuse Prevention on Public Works Projects Act (820 ILCS 365/1 et seq.).
- 8. Will otherwise comply with all drug and alcohol policies set forth in applicable Federal, State and local laws and

In addition to other remedies, the Contractor's failure to comply with any part of the requirements of the Drug-Free
Workplace Act of 1988, FAR, Illinois Drug Free Workplace Act, the Illinois Substance Abuse Prevention on Public Works
Projects Act, 49 CFR 40 or 49 CFR 655, may render the Contractor subject to any or all of the following: suspension of
payments, termination of contract for default, suspension or debarment.

	Workplace Act, 49 CFR 40 and 49 CFF is currently enforced or enforceable at	R 655 in such version, pri	or or subsequent to ar	mendment or revision, as
Workpla Projects	ion to other remedies, the Contractor's fa ace Act of 1988, FAR, Illinois Drug Free V s Act, 49 CFR 40 or 49 CFR 655, may ren ats, termination of contract for default, sus	Norkplace Act, the Illinois nder the Contractor subje	Substance Abuse Pre	evention on Public Works
Signatu	re and Title of Authorized Official	-	Date	

CERTIFICATION OF PRIMARY PARTICIPANT REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS

, certifies to the best of our knowledge and belief that it and
(Company's name)
its principles:
 Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
2. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
 Are not presently indicated for or otherwise criminally or civilly charged by charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (2) of this certification; and
 Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.
THE PRIMARY PARTICIPANT (APPLICANT OR POTENTIAL CONTRACTOR FOR A MAJOR THIRD PARTY CONTRACT) CERTIFIES OR AFFIRMS THE
(Company name)
TRUTHFULNESS AND ACCURACY OF THE CONTENTS OF THE STATEMENTS SUBMITTED ON OR WITH THIS CERTIFICATION AND UNDERSTANDS THAT THE PROVISIONS OF 31 U.S.C. SECTIONS 3801 <i>ET SEQ.</i> ARE APPLICABLE THERETO.
(Signature and Title of Authorized Official)
If you are unable to certify to any of the statements in this certification, the participant shall attach an explanation to this

certification.

CERTIFICATION OF LOWER TIER PARTICIPANT REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS

	, certifies to the best of our knowledge and belief that it and
its princ	(Company's name) iples:
1.	Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
2.	Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of frauds or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
3.	Are not presently indicated for or otherwise criminally or civilly charged by charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (2) of this certification; and
4.	Have not within a three-year period preceding this application/ proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.
THE LC	OWER TIER PARTICIPANT (APPLICANT OR POTENTIAL CONTRACTOR FOR A MAJOR THIRD PARTY
CONTR	RACT) CERTIFIES OR AFFIRMS THE (Company name)
TRUTH	(Company name) FULNESS AND ACCURACY OF THE CONTENTS OF THE STATEMENTS SUBMITTED ON OR WITH THIS
CERTIF	FICATION AND UNDERSTANDS THAT THE PROVISIONS OF 31 U.S.C. SECTIONS 3801 <i>ET SEQ</i> . ARE
APPLIC	CABLE THERETO.
	(Signature and Title of Authorized Official)

If you are unable to certify to any of the statements in this certification, the participant shall attach an explanation to this certification.

LOBBYING CERTIFICATION

Certification for Contracts, Grants, Loans and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

The undersigned shall require that the language of this certification be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, and contracts under grants, loans and cooperative agreements) and that all sub recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

	Executed this	day of	, 20
By:			
•		(Type or print name of contractor)	
_			
		(Signature of authorized officer)	
		(Title of authorized officer)	

Proposer's Execution Signature Page

The undersigned hereby acknowledges having received a full set of CONTRACT DOCUMENTS (Section 1 "Background and Introduction", Section 2 "Scope of Services", Section 3 "Proposal Requirements", Section 4 "Evaluation Criteria and Process", Appendix A "Price Proposal Forms", Appendix B "Contract for Parts", Appendix C "DBE Requirements", Appendix D "Bills of Material", Appendix E "Detail Specifications", Appendix F "CTA Drawings", Appendix G "Bid Protest Procedures", Appendix H "Contractor Certifications and Acceptance", Appendix I "RFP Non-Disclosure Statements", Appendix J "Vendor Reference Form" and Appendix K "Table of Exceptions") AND ADDENDA NUMBERS:

Bidder Must Insert Addenda Numbers Here	

and the undersigned agrees, if awarded the Contract, to perform the Contract in accordance with the terms and conditions of the Contract and Addenda, if any, thereto. Notice to the undersigned may be served by mailing to the address hereinafter set forth.

FURTHER, THE UNDERSIGNED, BEING DULY SWORN, DEPOSES AND STATES ON OATH THAT the undersigned has not entered into any agreement with any other Bidder or prospective Bidder or with any other person, firm, or corporation relating to the price or prices named within the undersigned's Bid, or any other Bid, or any agreement or arrangement under which any person, firm, or corporation is to refrain from bidding, or any agreement or arrangement for any act or omission in restraint of free competition among Bidders, and has not disclosed to any person, firm, or corporation the terms of the undersigned's Bid, or the price or prices named herein. As required by Section 33E-11 of the Illinois Criminal Code of 1961, as amended (the "Act"), the undersigned certifies that the below named Bidder or any agent, partner, employee, or officer of the Bidder is not barred from contracting with any unit of state or local government as a result of engaging in or being convicted of either bid-rigging in violation of Section 3, Article 33E or bid—rotating in violation of Section 4, of Article 33E of the Act, or any similar offenses of any state or the United States that contain the same elements as the offenses of bid-rigging or bid-rotating.

Bidder:	(Print or Type Name of Corporation, Limited Liability Co., Sole Proprietor, Partnership, or Joint Venture)
Business A	ddress (Print or Type Street, City, State and Zip Code):
	By:
	Signature of Authorized Officer ¹ , Managing Member ¹ , Bidder ¹ , Partner(s) ² or Joint Venturer(s) ²
	Title and Name of Signatory:
	(Print or Type Title and Name)

- 1. If signed by any person other than the corporate President or Vice President, a certified copy of a resolution or by-law authorizing such person to sign must accompany this Bid.
- 2. All Partners or Joint Venturers of the Firm must sign this bid unless one Partner or Joint Venturer is authorized to sign for the Partnership or Joint Venture. Use additional copies of this Attachment if more than one signatory.

County of	f		
_	nd Sworn to before me by the bove on this:	the signatory whose nam	ne
(day)	day of	(year) 20	_
	(Signature of Notary Public)	<u></u>	(NOTARY SEAL)

DISCLOSURE OF OWNERSHIP AND INTERESTS AFFIDAVIT

Every Bidder or Proposer (referred to as "Bidder") submitting a Bid or Proposal to the Authority for a Contract shall submit this Disclosure of Ownership and Interests Affidavit (hereafter Disclosure Affidavit or "Affidavit"). If the Bidder is a joint venture, the joint venture and each of the joint venture partners shall complete a Disclosure Affidavit.

Please print or type all responses clearly and legibly. If you need additional space for a response, attach extra pages. Please indicate the question to which you are responding on any extra pages you attach.

For purposes of this Disclosure Affidavit, the term "Contract" refers to the Contract, concession, agreement, modification, amendment, extension, or other section in connection with which you are submitting the Disclosure Affidavit.

After reviewing your completed Disclosure Affidavit, the Authority's General Counsel or GM, Purchasing may require additional information to achieve full disclosure relevant to the Bid, or other applications. Requisition Number: _____ Bidder Name: _____ Bidder Business Address: Authority departments to which you are submitting this form (check one): [] Purchasing Other: The undersigned _____ (Title) (Business Address) ("Bidder" or "Contractor"), having been duly sworn under oath certifies as follows: DISCLOSURE OF OWNERSHIP INTERESTS Indicate below whether the Bidder is an individual or a legal entity and, if a legal entity, indicate the type of entity. Then complete Part (A), (B), (C), or (D) below as applicable. All Bidders shall complete Part (E). For Bidders that are sole proprietorships. Part (E) is the only section of Part I that shall be completed. For Bidders that are joint venturers, the joint venture and each member must complete a separate form. Identify all layers of ownership if the firm has a parent firm. [] Individual [] Limited liability company Business corporation [] Partnership Not-for-Profit corporation [] Joint Venture [] Sole Proprietorship [] Limited Liability Partnership { } Other: A. CORPORATIONS (FOR-PROFIT AND NOT-FOR-PROFIT) This information must be provided for the corporation and for any parent corporation. Incorporated in the State of ______. 1. 2. List below the name and title of all officers of the corporation:

Title

Name

3. Lis	st below the name and title o	f all directors of the co	orporation:			
Name			Title			
	OMPLETED BY FOR -		_	N.		
	the Corporation listed on the					
	the Corporation is listed on a	-		•	e name of the e	exchange
2. If 1	there are fewer than 100 shar	reholders, list below th	ne name, business addre	ess, and perc	entage of own	ership interest of each
shareholder				_	_	_
Name		Business Addres	S	Ow	nership Interes	t
						%
						%
						%
3. If there	are 100 or more shareholde	rs, list below the name	, business address, and	percentage	of ownership i	nterest for each
	who owns shares or options	•	*	-		
Name		Business Address	S	Ow	nership Interes	t
						%
						%
						%
TO DE C	OMBI ETED DV NOT I		DOD ATIONS ON	W.		
	OMPLETED BY NOT-F			<u> </u>		
	the name and business addre	ŕ				
Name		Business Address	S	Titl	e	
					_	

B. PARTNERSHIPS

List below the name and business address and the percentage of ownership interest for each general, limited, or individual partner entitled to receive 5% or more of the profit derived from partnership activities. The names of all individuals in such partnerships must be listed. **Business Address** Ownership Interest Name C. LIMITED LIABILITY COMPANIES 1. List below the names and titles of the officers, if any. If there are no officers, write "none": Title Name 2. List below the name, business address, and percentage of ownership interest of each (i) member and (ii) manager. **Business Address** Name Ownership Interest D. LAND TRUSTS, BUSINESS TRUSTS, ESTATES, AND OTHER SIMILAR ENTITIES 1. Trust name and number, or other information identifying the trust: List below the name and business address of all trustees: 2. **Business Address** Name 3. List below the name, business address, and percentage of ownership interest of all beneficiaries: Name **Business Address** Ownership Interest

E. ADDITIONAL INFORMATION - TO BE COMPLETED BY ALL BIDDERS

		agents or nominees on behalf	of another individual or legal
If Yes, list below each prominee:	incipal's name, business address, po	ercentage of ownership intere	st, and the name of the principal's
	Business Address	Ownership Interest	Agent/Nominee
			individual or legal entity, other
	Business Address	Name of Party Whose Interest is Controlled	Relationship
			
-	•	poration or other legal entity?	?
all information provided or	, in the alternative, the Bidder must		
Is any ownership interest	held by a current or former CTA en	mployee? [] Yes [] No	
If Yes, provide names an	d amount of ownership interest:		
	Ownership Inter	rest	
		%	
Is any current or former of	CTA employee employed by the Bi	idder: [] Yes [] No	
If Yes, provide name, titl	e and areas of responsibility:		
	Title	Areas of R	esponsibility
	Is the Bidder or any ownagent or nominee: Is the Bidder or any ownagent or nominee disclose If Yes, list below the nanis controlled, and the relation is controlled, and the relation [1] Yes [1]. If Yes, each such corporatell information provided or reporation or other legal enterporation or other legal enterporation or other legal enterporation. Is any ownership interest of Yes, provide names and Is any current or former of the same current or forme	If Yes, list below each principal's name, business address, prominee: Business Address Business Address Business Address Is the Bidder or any ownership interest in the Bidder, construction agent or nominee disclosed above? [] Yes [] No If Yes, list below the name and business address of each ind is controlled, and the relationship between the two under white Business Address Is any stock or beneficial interest in the Bidder held by a correct properties of the Bidder must report on or other legal entity shall make all information provided or, in the alternative, the Bidder must report on or other legal entity. Is any ownership interest held by a current or former CTA error of the If Yes, provide names and amount of ownership interest: Ownership Interest is any current or former CTA employee employed by the Bright Yes, provide name, title and areas of responsibility:	If Yes, list below each principal's name, business address, percentage of ownership interest nominee: Business Address Ownership Interest % % % Step Bidder or any ownership interest in the Bidder, constructively controlled by another agent or nominee disclosed above? [] Yes [] No If Yes, list below the name and business address of each individual or entity possessing or is controlled, and the relationship between the two under which the control is or may be exist is controlled, and the relationship between the two under which the control is or may be exist in the Business Address Business Address Name of Party Whose Interest is Controlled % % % Is any stock or beneficial interest in the Bidder held by a corporation or other legal entity. [] Yes [] No If Yes, each such corporation or other legal entity shall make all disclosures requested in all information provided or, in the alternative, the Bidder must complete and sign an additional information or other legal entity. Is any ownership interest held by a current or former CTA employee? [] Yes [] No If Yes, provide names and amount of ownership interest: Ownership Interest Ownership Interest [] Yes [] No If Yes, provide names and amount of responsibility: Is any current or former CTA employee employed by the Bidder: [] Yes [] No If Yes, provide name, title and areas of responsibility:

NOTE: The information provided in this form, shall be kept current. In the event of material changes, the Bidder shall supplement this Affidavit, up to the time the Authority takes action on the Bid, or other application for which this Affidavit is being submitted.

BIDDER:
By
(If a corporation and signed by any person other than the President or Vice-President, a certified copy of a resolution or by-law authorizing such person to sign, must accompany this contract)
NOTARIZATION - REQUIRED State of
County of
Signed and Sworn to before me on
this day of
By(Signature of Notary Public)
(NOTARY'S SEAL)

ACCEPTANCE

The undersigned, on behalf of Chicago Transit Authority, A Municipal Corporation of the State of Illinois, hereby accepts the foregoing bid items as identified in the Proposal.

Contract Number		
Total Amount of Cor	ntract \$	
Dated this	day of	, 2012, at Chicago, Illinois
		Vice President, Purchasing
		President
Approved as to form and benefit of CTA. Subject and execution thereof:		
Attorney		-

APPENDIX I NON-DISCLOSURE STATEMENT

RFP NON-DISCLOSURE STATEMENT

In connection with the Proposal subn	nitted herewith in resp	onse to the Chicago	Transit Authority	's ("CTA")
Request for Proposal ("RFP"), Req	uisition No. C12RI1	01317082 Request	for Proposal	(RFP) for
Sourcing and delivery of parts re	quired to perform i	n-house "C-Lite" o	verhauls on 26	00 series
railcars:	("Company") acknow	ledges and agrees the	nat the evaluatio	n process
conducted by the CTA on all Propos	als submitted is confi	dential and sensitive.	Company furth	er agrees
not to take any action(s) that would fr	ustrate the process, p	rovide any unfair adv	antage to itself,	or provide
any advantage or disadvantage to any	y other proposer in co	nnection with the RFF).	

Therefore, Company states as follows:

- 1. All substantive details of the Proposal submitted by Company and all materials and information provided, discussed, disclosed or otherwise conveyed, whether in writing or orally, by the CTA or Company or between Company and CTA during demonstrations, presentations, meetings or negotiations in connection with the CTA's evaluation of Company's Proposal, including cost or price information, technical information or any other proposal information or conditions with respect to the possible procurement transaction contemplated by the RFP (the "Transaction"), the identity of the CTA's evaluation committee, the name of the proposers, or any sub-contractor, and the number of proposers are hereby referred to as "Confidential Evaluation Material" for purposes of this Statement. Confidential Evaluation Material shall also include all communications regarding the Transaction with Authorized CTA Personnel, including: (i) requests for additional information, (ii) requests for tours or management meetings, (iii) discussions or questions regarding the Transaction, (iv) the occurrence, existence, or lack thereof, of any such communication, discussion or negotiation, (v) the status of discussions or negotiations and (vi) the fact that any Confidential Evaluation Material has been made available to Company. The term Confidential Evaluation Materials does not include statements informing another of the submission or existence of the Proposal.
- 2. Company will limit knowledge of and access to the Confidential Evaluation Materials to only those of its principals, directors, officers, employees and representatives, who have a need to know such information (collectively the "Company Parties") and such Confidential Evaluation Materials shall be used solely in connection with negotiations with Authorized CTA Personnel regarding the Transaction. When the Company discloses Confidential Evaluation Material to any of the Company Parties, it shall be the Company's responsibility to ensure that all Company Parties recognize the confidential nature of such information, together with the restrictions on use and disclosure contained herein.
- 3. Company will not disclose any Confidential Evaluation Material to any employee, officer or Board member of the CTA who is not named as Authorized CTA Personnel. Additionally, Company will not contact any employee, officer or Board member of the CTA other than the Authorized CTA Personnel on any matter involving this Transaction. Authorized CTA Personnel shall mean only the CTA Procurement Administrator for the Transaction, the General Manager Purchasing, the Vice President Purchasing and Warehousing and any other CTA person or position specifically authorized in writing by either the CTA's Procurement Administrator, General Manger Purchasing, or Vice President Purchasing and Warehousing.
- 4. The Company shall not disclose any Confidential Evaluation Material to, or use any such information for the advantage or disadvantage of, any third person. The term "third person" shall be broadly interpreted to include without limitation any corporation, company, group, partnership or an individual other than the Company Parties and Authorized CTA Personnel.

- Notwithstanding the above, the obligations of Company regarding the Confidential Evaluation Material do not apply to information which in the opinion of Company's counsel is otherwise required to be disclosed by law. In such event, Company shall provide CTA with written notice of such a determination, and a supporting statement from its counsel, prior to disclosure.
- 6. Company shall advise the CTA in writing if it learns of any unauthorized use or disclosure of Confidential Evaluation Material.
- 7. The CTA shall be entitled to equitable relief, including injunction, if any provision of this Statement is breached. Additionally, the CTA reserves the right to disqualify the Company from further consideration for the Transaction in the event of a breach of the terms of this Statement.
- 8. This Statement is governed by the laws of the State of Illinois and any lawsuits involving this Statement shall be filed in courts of competent jurisdiction located in Cook County, Illinois.
- 9. This Statement shall be effective as of the date signed and shall continue in full force and effect until the date on which a contract award for the Transaction is made by the CTA's Board.

Agreed to and Accepted:
Company
Ву:
Name:
Title:
Date:

RFP NON-DISCLOSURE STATEMENT SUB-CONSULTANT

In connection with the Proposal sub	mitted herewith ir	n response to the	Chicago Trans	sit Authority'	s ("CTA")
Request for Proposal ("RFP") Re	quisition No. C	12RI101317082	Request for	Proposal (RFP) for
Sourcing and delivery of parts	required to perfe	orm in-house "C	C-Lite" overha	auls on 260	00 series
railcars:	("Company") ack	nowledges and a	agrees that th	e evaluatior	process
conducted by the CTA on all Propo	osals submitted is	confidential and	sensitive. Co	mpany furth	er agrees
not to take any action(s) that would	frustrate the proc	ess, provide any	unfair advanta	ge to itself, o	or provide
any advantage or disadvantage to a	ny other proposer	in connection wit	h the RFP.		

Therefore, Company states as follows:

- 1. All substantive details of the Proposal submitted by Company and all materials and information provided, discussed, disclosed or otherwise conveyed, whether in writing or orally, by the CTA or Company or between Company and CTA during demonstrations, presentations, meetings or negotiations in connection with the CTA's evaluation of Company's Proposal, including cost or price information, technical information or any other proposal information or conditions with respect to the possible procurement transaction contemplated by the RFP (the "Transaction"), the identity of the CTA's evaluation committee, the name of the proposers, or any sub-contractor, and the number of proposers are hereby referred to as "Confidential Evaluation Material" for purposes of this Statement. Confidential Evaluation Material shall also include all communications regarding the Transaction with Authorized CTA Personnel, including: (i) requests for additional information, (ii) requests for tours or management meetings, (iii) discussions or questions regarding the Transaction, (iv) the occurrence, existence, or lack thereof, of any such communication, discussion or negotiation, (v) the status of discussions or negotiations and (vi) the fact that any Confidential Evaluation Material has been made available to Company. The term Confidential Evaluation Materials does not include statements informing another of the submission or existence of the Proposal.
- 2. Company will limit knowledge of and access to the Confidential Evaluation Materials to only those of its principals, directors, officers, employees and representatives, who have a need to know such information (collectively the "Company Parties") and such Confidential Evaluation Materials shall be used solely in connection with negotiations with Authorized CTA Personnel regarding the Transaction. When the Company discloses Confidential Evaluation Material to any of the Company Parties, it shall be the Company's responsibility to ensure that all Company Parties recognize the confidential nature of such information, together with the restrictions on use and disclosure contained herein.
- 3. Company will not disclose any Confidential Evaluation Material to any employee, officer or Board member of the CTA who is not named as Authorized CTA Personnel. Additionally, Company will not contact any employee, officer or Board member of the CTA other than the Authorized CTA Personnel on any matter involving this Transaction. Authorized CTA Personnel shall mean only the CTA Procurement Administrator for the Transaction, the General Manager Purchasing, the Vice President Purchasing and Warehousing and any other CTA person or position specifically authorized in writing by either the CTA's Procurement Administrator, General Manger Purchasing, or Vice President Purchasing and Warehousing.
- 4. The Company shall not disclose any Confidential Evaluation Material to, or use any such information for the advantage or disadvantage of, any third person. The term "third person" shall be broadly interpreted to include without limitation any corporation, company, group, partnership or an individual other than the Company Parties and Authorized CTA Personnel.

- Notwithstanding the above, the obligations of Company regarding the Confidential Evaluation Material do not apply to information which in the opinion of Company's counsel is otherwise required to be disclosed by law. In such event, Company shall provide CTA with written notice of such a determination, and a supporting statement from its counsel, prior to disclosure.
- 6. Company shall advise the CTA in writing if it learns of any unauthorized use or disclosure of Confidential Evaluation Material.
- 7. The CTA shall be entitled to equitable relief, including injunction, if any provision of this Statement is breached. Additionally, the CTA reserves the right to disqualify the Company from further consideration for the Transaction in the event of a breach of the terms of this Statement.
- 8. This Statement is governed by the laws of the State of Illinois and any lawsuits involving this Statement shall be filed in courts of competent jurisdiction located in Cook County, Illinois.
- 9. This Statement shall be effective as of the date signed and shall continue in full force and effect until the date on which a contract award for the Transaction is made by the CTA's Board.

Agreed to and Accepted:
Company
Ву:
Name:
Title:
Date:

APPENDIX J

VENDOR REFERENCE FORM

Vendor References Form

Reference Contact	Information		
Reference Name		Initial Date of Work with Contact	
Contact Name		Original Contract Term	
Address		Any Contract Extensions	
		Termination Date of Contract	
		Reason for Termination	
Contact Title		Telephone Number	
E-mail		Fax Number	
Nature of Relations	ship with Company		
Approximate \$ Size of th	ne Contract		
Services provided/Software Implemented			
Name of Vendor Project Manager and Client Project Manager			
Detailed Descriptio	n of Your Responsibilities		
Roles & Responsibilities:			
Were you the Prime Con	tractor?		
Subcontractors & Respo	nsibilities:		

APPENDIX K

TABLE OF EXCEPTIONS

Table of Exceptions

Vendor must identify the page, section number, provision and the specific exception, non-conformance and/or substitute language proposed. Failure to identify any specific items of non-compliance will result in CTA assuming compliance. The CTA, at its sole discretion may reject any exception or specifications within the proposal.

Page Number	Section Number	Provision	Specific Exception, Non-Conformance, and/or Substitute Language Proposed