

BID SOLICITATION NOTICE

TO RECEIVE A BID PACKAGE, BIDDERS MAY EITHER DOWNLOAD THE REQUEST FOR BID (“RFB”) FROM THE AUTHORITY’S WEBSITE AT <http://www.state.nj.us/turnpike/purchasing.html> OR REQUEST A BID BY COMPLETING THIS FORM AND FAXING IT TO THE NUMBER STATED BELOW. FOR RECORD KEEPING PURPOSES, THE AUTHORITY REQUESTS THAT THE BIDDER COMPLETE THIS FORM AND RETURN IT TO THE PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT, EVEN WHEN A BIDDER IS DOWNLOADING THE RFB. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS.

THE NEW JERSEY TURNPIKE AUTHORITY PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT

New Jersey Turnpike Administrative Offices
P.O. Box 5042, 581 Main Street
Woodbridge, New Jersey 07095-5042
Tel. - 732-750-5300 Ext. 8640 Fax - 732-750-5399

TITLE: **TANDEM CHASSIS’ WITH HOOK LIFT**
BID NO: **R-107525**
DUE DATE: **4-30-14**
TIME: **11:00 AM**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME STATED ABOVE TO THE ABOVE ADDRESS

BIDDER INFORMATION (PLEASE PRINT)

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO

FAX NO

WE HAVE DOWNLOADED THE BID FROM THE AUTHORITY WEBSITE

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PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT**

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FAX NO

____ BUSINESS CORPORATION

____ PARTNERSHIP

____ INDIVIDUAL

____ OTHER (SPECIFY) _____

SECTION I

A. INTRODUCTION

The New Jersey Turnpike Authority (the “Authority”) was created by an act of the New Jersey Legislature in 1948, known as the New Jersey Turnpike Authority Act (as amended and supplemented, “Act”). The Act authorizes the Authority to construct, maintain, repair, and operate the New Jersey Turnpike, to collect tolls, and to issue Turnpike Revenue Bonds or Notes, subject to the approval of the Governor, payable from tolls and other revenues of the Authority. On May 27, 2003, the Act was amended to empower the Turnpike to assume all powers, rights, obligations and duties of the New Jersey Highway Authority (the “Highway Authority”), which owned and operated the Garden State Parkway and PNC Bank Arts Center. On July 9, 2003, the Authority assumed all powers, rights, obligations and duties of the Highway Authority. The Authority currently operates both the Garden State Parkway (“GSP”) and the New Jersey Turnpike (“Turnpike”) (both roads are collectively referred to herein as the “Roadways”).

The Authority is governed by an eight member Board of Commissioners (“Board”). The Governor of New Jersey appoints each of its members and has the statutory authority to overturn an action of the Board by vetoing any Board action within 10 days of receiving the minutes of the meeting. The Board authorizes awards of all public contracts over \$35,000, except in cases where it has delegated authority to the Executive Director.

This bid solicitation is being conducted pursuant to the Authority’s enabling statute as found in N.J.S.A. 27.23-6.1 and Executive Order number 37 (Corzine 2006) and the regulations and policies of the Authority with regard to public bid procurement.

B. BIDDER GUIDELINES/CHECKLIST

BIDS THAT FAIL TO CONFORM TO THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

1. The Request of Bid (“RFB”), including specifications and related bid documents (“Bids”) must be received at or before the due date and time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 581 Main Street, Woodbridge, New Jersey 07095. Late Bids will be returned unopened. Telephone or facsimile Bids will not be accepted.
2. The entity submitting a Bid (“Bidder”) must provide one original and one copy of the Bid. The Bid must include all price information. Bid prices shall include delivery of all items F.O.B. destination or as otherwise provided. Price quotes must be firm through issuance of contract.
3. All Bid prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications.
4. All corrections, white-outs, erasures, re-striking of type, or other forms of alteration or the appearance of alteration, to unit and/or total prices must be initialed in ink by the Bidder.
5. The Bidder must attend the mandatory site inspection at the following date(s) and time(s) if applicable:
6. If checked this RFB requires the following mandatory document(s) or the Bid **will** be rejected:

- (a) Bid Bond or Cashier’s Check for 10% of the amount Bid or a Letter of Surety
- (b) Stockholder/Partnership Disclosure Statement

7. See the Authority’s Instruction to Bidders for a complete list of the Authority’s standard contract Terms and Conditions, as well as required forms that must be included with the Bid (**ATTACHED**).

The following checked documents are required for this Bid. Failure to submit the required forms may result in the rejection of the Bid.

- (a) State of New Jersey Division of Revenue Business Registration Certificate
- (b) Certification of Registration with the Secretary of State (only if non-NJ corporation)
- (c) Acknowledgement of requirement for Disclosure of Political Contributions (ELEC)
- (d) Public Works Contractor Registration Certificate(s) (if applicable)
- (e) Affirmative Action Information Sheet with Certificate or Form AA302
- (f) Signed Mandatory Equal Employment Opportunity Language
- (g) SBE/WBE/MBE Certificates and Form
- (h) Vendor Disclosure Form (EO129-Location of Services)
- (i) Notice of Set-Off for State Tax (P.L. 1999, c 159)
- (j) Automobile Insurance Liability Waiver
- (k) Insurance Certificate
- (l) Disclosure of Investment in Iran

8. Bidder must sign Bid
9. Three year Open Option Clause

SECTION II

A. INTENTION

1. Sealed Bids for **R-107525** must be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main Street, Woodbridge, New Jersey 07095-5042, by the due date and time stated on the cover page of this “RFB” at which time and place said Bid will be opened and read in public.
2. Bidders mailing Bids should allow for their normal mail delivery time to ensure timely receipt of the Public Bids. **Please be advised that using an overnight/next-day delivery service does not guarantee overnight/next-day deliveries to our location. The Authority will not be responsible for any Bid not being received by the required date and time.**
3. It is the intention of the Authority to issue a purchase order or notice of award for a price agreement for the procurement of **Tandem Chassis’ with Hook Lift.**
4. Items purchased under this contract will be delivered as directed by the Authority.
5. The term of the contract shall be for “one year with the option to extend for two additional one-year terms at the Authority’s discretion and the vendor’s concurrence”.
6. Please contact Richard Bava with any questions regarding this procurement contract at 732-750-5300 x-8636, or rbava@turnpike.state.nj.us.

B. BID SHEET INSTRUCTIONS

1. Bidders must follow all instructions in this RFB and in the Instructions to Bidders issued by the Authority, and any other documents issued by the Authority in connection with this RFB (collectively, “Bid Documents”).
2. Bidders must examine the bid documents carefully before bidding and must ask the Director of Procurement and Materials Management Department (“PMM”) in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. If necessary, an interpretation or correction to the specifications shall be issued by the Director of PMM in response to inquiries and/or addendum shall be faxed to Bidders who have obtained the Bid Documents. Upon the issuing of an addendum, the addendum shall become part of the bid documents. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the Bid opening date.**
3. Written requests can be submitted by FAX at 732-750-5399.
4. The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of PMM of the existence of an

ambiguity or inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the Authority's interpretation of such ambiguity or inconsistency.

5. All erasures, interpolations or other physical changes on the Bid form shall be signed or initialed by the Bidder. Bids containing any conditions, omissions, erasure's, alterations, or items not called for in this "RFB" or irregularities of any kind, may be rejected by the Authority, in its sole discretion.

The Bidder shall not attach conditions, limitations or provisos to their Bid, except in cases where "exceptions" are permitted.

6. **The Authority will accept Approved Equivalent items on this Bid.** If a Bidder is basing the proposal on items other than what is specified, and wishes the items proposed to be considered as an "Approved Equivalent", the Bidder shall enter a price on the Bid sheet then submit on the Exception Sheet in the exact format of the line item on the RFB contained herein, the item number, an item description including manufacturers name, model number, informational brochure(s), and packaging quantities of those items that the Bidder proposes to substitute.

C. BASIS OF AWARD

1. **Bidders must supply a price for every item listed. Bids not having a price for all listed items may be rejected.**
2. **Bidders must quote only one price per line item. If a Bidder quotes multiple prices per line item, the Bid may be rejected.**
3. The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed. The Authority reserves the right to make reasonable increases or decreases to line item quantities.
4. All items are to be Bid FOB Destination. All shipping, handling, and other costs should be considered in the Bid price.
5. The Authority is tax exempt from New Jersey Sales and Excise Tax.
6. Award will be made to the lowest responsive Bidder for the total line items Bid.

D. MISCELLANEOUS

1. Delivery Date _____
(Insert if applicable)

2. Payment Terms: The Authority's standard payment terms are Net 30 days. Prompt payment discounts may be offered and must be a minimum of 10 days.

Discount: Maximum time period: _____ Percentage: _____

Note: Although prompt payment discounts will not be considered in determining low Bid, the Authority reserves the right to take advantage of any such discounts offered.

BID QUOTATION SHEET

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	5	EA	TANDEM CHASSIS' WITH HOOK LIFT, AS PER ATTACHED SPECIFICATIONS	\$	\$

**ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX TO 732-750-5399
NO LATER THAN FIVE (5) BUSINESS DAYS BEFORE BID OPENING**

NEW JERSEY TURNPIKE AUTHORITY

Andrea E. Ward
Director, PMM Department

_____/_____
Name of Company / Authorized Signature of Bidder

E. SIGNATURE PAGE

1. **ADDENDA / INQUIRIES:** COMPLETE (if applicable) BEFORE SUBMITTING BID:

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

CHECK BOX IF NO ADDENDA/INQUIRY ISSUED

(All Addenda / Inquiries must be acknowledged as indicated above.)

2. **BID IRREVOCABLE:** This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this Bid except in those instances where an unsuccessful Bidder has filed a bid protest pursuant to N.J.A.C. 19:9-2.12. Upon notification of a protest, Bidders are required to hold their prices for an additional 90 days. All Bidders will be notified in writing of the action taken by the Authority.
3. **OFFER/CERTIFICATION:** The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the RFB, Bid Documents, and resulting contract. The undersigned further certifies understanding and compliance with the requirements of the standard terms and conditions as stated in the Instructions to Bidders included with the Bid Documents. The undersigned certifies that he or she executes this Bid with full authority so to do; and that all statements contained in this Bid and in this certification are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained herein and in any statements requested by the Authority showing evidence of qualifications in awarding the contract.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

4. **AUTHORIZED SIGNATURE:** _____

Print Name and Title: _____

Bidder: _____

Address: _____

City _____ State _____ Zip: _____

E-mail address: _____

Telephone #: _____ Fax #: _____

Date: _____

SECTION III

NO RESPONSE BID SURVEY

BID REQUISITION NUMBER: R-107525

BID TITLE: TANDEM CHASSIS' WITH HOOK LIFT

If you do not choose to respond to this Bid, please complete the form below:

Name of Company _____

Reason you did not respond (Check all that apply):

_____ Cannot supply product or service

_____ Cannot meet technical specifications

_____ Cannot meet delivery specifications

_____ Cannot meet legal requirements
(i.e. Bid/performance/security/insurance, etc.)

_____ Cannot provide a competitive price at this time

_____ Interested in receiving specifications for informational purposes only

_____ Insufficient lead time to respond

_____ Other:(please be specific) _____

_____ Do you wish to remain on our mailing list?

_____ Yes _____ No

Additional comments: _____

Signed (optional): _____

Company: _____

ADDITIONAL YEARS PURCHASING OPTION, for R-107525

BID TITLE – TANDEM CHASSIS’ WITH HOOK LIFT

3 - Year Open End Option: The Authority shall have the option for one (1) Model Year* from the date of Contract, to order additional units conforming to the requirements of these specifications at the same price and under the same terms and conditions as those contained herein.

The Authority shall further have the option to purchase additional units conforming to these specifications for two (2) additional Model Years. Any unit(s) offered during the two (2) subsequent Model Years shall be of the model equivalent to that specified herein. In the latter instances, if there have been any price changes, the vendor shall submit a request to the Authority covering the aforesaid price changes, and shall include appropriate explanation and justification for any such price changes.

Any such request for price adjustment shall be in writing and directed to the Director, Procurement and Materials Management Department and shall be accompanied by the following evidence as a basis for your request;

1. The published price lists for equipment, which were in effect at the time of your original proposal.
2. The equivalent published price lists in effect at the time of your request.
3. Any additional evidence which the Authority deems necessary in the evaluation of your request.

The Authority shall, within its sole discretion, have the right to accept the price changes proposed by the vendor or if it so desires, re-bid the requirement.

*Model Year is defined as the Model Year of the Manufacturer of the unit(s) offered by you in this Request For Quotation. In that instance where proposals are for equipment for which “Model Year” and “Production Cut-Off Dates” are undefined or non-existent, the “Model Year” is defined, for bid purposes, as one calendar year from the date on which the Contract is accepted. The last date on which orders may be placed for the Model currently in effect is _____.

NEW JERSEY TURNPIKE AUTHORITY

GENERAL INSTRUCTIONS AND SPECIFICATIONS:

Quantity	Description	Maximum Delivery Date
5	62,000 lbs. GVWR Conventional Cab & Chassis Equipped with Hook Lift Material Transport System to Accommodate V-Box Spreader, Dump Body, Stake Body Including Snow Plow Hitch, 11' Power Reversing Snow Plow and Accessories	240 Days After Receipt of Order

SPECIFICATIONS:

TAC-2014 TANDEM AXLE CHASSIS

HLMTS-2014 HOOK LIFT MATERIAL TRANSPORT SYSTEM

SSFBB-2014 HEAVY-DUTY SALT SPREADER FLAT BED BODY

VB-2014 STAINLESS STEEL V-BOX HOPPER SPREADER & COMPONENTS

DB-2014 DUMP BODY

SB-2014 STAKE BODY

CHS-2014 CENTRAL HYDRAULIC SYSTEM

PWS-2014 PRE-WET SYSTEM

LBS-2014 LIGHTBAR STANCHION

RL-2014 ROTATOR LIGHTS

SPL-2014 SNOW PLOW LIGHTS

SPH-2014 SNOW PLOW HITCH

SP-2014 SNOW PLOW

7PTC: 7-POLE ROUND PIN TRAILER CONNECTORS ON TRUCKS AND TRAILERS

7PTC-ABS: 7-POLE ROUND PIN TRAILER CONNECTORS ON TRUCKS AND TRAILERS

13PRC: 13PROBC 13-POLE ROUND PIN ROLL OFF BODY TO CAB CONNECTOR

COMPLIANCE WITH RULES AND REGULATIONS: The unit and associated equipment furnished must comply with all Federal and State Motor Vehicle Safety Laws and Regulations and shall be capable of passing the New Jersey State Motor Vehicle Inspection Laws.

ENERGY STAR REQUIREMENTS: If applicable for items specified in bid package, the vendor must provide products that earn ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency. The vendor is encouraged to visit energystar.gov for complete product specifications and updated lists of qualifying products. The ENERGY STAR label must also be affixed to each delivered item. The bidder's signature on the signature page certifies that items so indicated that have earned ENERGY STAR and meet the ENERGY STAR specifications or other standards for energy efficiency will be supplied.

ERRORS AND OMISSIONS: Inadvertent omissions or errors in the attached specifications must be brought to the attention of the New Jersey Turnpike Authority's Director of Procurement and Materials Management at 732-750-5300 before bid submission date. If, with knowledge of such error or omission and prior to the correction thereof, the bidder proceeds with any work affected

hereby, they shall do so at their own risk and the work so done shall not be considered as work done under and in performance of this Agreement unless and until approved and accepted.

PILOT MODEL: Questions, which arise before or during the preparation of the pilot model, shall be addressed in writing via e-mail from the vendor to Peter Perperas (Project Supervisor), perperas@turnpike.state.nj.us at the New Jersey Turnpike Authority on a not to delay basis. The awarded bidder shall make available one **fully completed** pilot model for inspection and approval by the Authority. The unit shall be transported (responsibility of the awarded vendor) to the NJTA Garden State Parkway Division's Telegraph Hill Maintenance Facility located at Garden State Parkway Exit 116 in Holmdel, NJ 07733.

DELIVERY INSTRUCTIONS:

- A. Vendor must contact Peter Perperas (Project Supervisor) at 732-442-8600 ext. 2868 for authorization to schedule date and time prior to delivery. **Deliveries shall be made to the NJTA Garden State Parkway Division Telegraph Hill Central Maintenance Facility located at GSP Exit 116 in Holmdel, NJ 07733.**
- B. Vendor shall be responsible for all delivery, shipping and pick-up expenses.
- C. All units must be pre-delivery serviced, completely assembled, operational, and cleaned prior to Authority delivery.
- D. The following administrative package **must** accompany all deliveries:
 - Certificate of Origin: stamped "Sales Tax Satisfied" and shall be made out to New Jersey Turnpike Authority 581 Main St. Woodbridge, NJ 07095. Certificate of Origin shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - Invoice: purchase order number must be displayed on vendors invoice. Invoice shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - Warranty forms properly executed.
 - Four (4) keys for each vehicle shall be furnished (each vehicle shall have an independent key code). Successful bidder must supply a key code listing for each vehicle identification number. **NO EXCEPTIONS**
 - Four (4) keys, keyed alike for toolboxes or similar compartments shall be furnished for each vehicle. **NO EXCEPTIONS**
 - State MVC (Motor Vehicle Commission) required inspection stickers.
 - Federal Safety Inspections shall be performed and stickers shall be attached to the vehicles prior to delivery.

- A 30 day temporary registration tag shall be applied to each vehicle.

E. All units shall be delivered with a **minimum** of a half tank of fuel.

F. Deliveries made directly from the manufacturer to the Authority shall **not** be acceptable.

WARRANTY: All units delivered must be guaranteed to be free from defects in materials, design and workmanship for a **minimum** of one (1) year (see additional warranty coverage's throughout specification) from the time of acceptance by the New Jersey Turnpike Authority. All warranties shall start upon written acceptance of units by the New Jersey Turnpike Authority. Warranty must include service availability from any manufacturers authorized dealer establishment most closely located to Parkway and Turnpike area. This repair facility may not be further than 100 miles from Telegraph Hill Central Maintenance Facility in Holmdel, NJ 07733 or Central Shops Maintenance Facility located in Hightstown, NJ 08520. If warranty service is required, the vendor who supplied the unit shall provide for pickup, delivery and repair of unit at no charge to the New Jersey Turnpike Authority. The vendor shall also have a program to include an in-house warranty.

EXCEPTION SHEET: Exception sheet is furnished with each set of specifications. Bidders making exceptions must note exceptions by item and indicate substitution in lieu and submit with bid, detailed specifications on the substitution. If the vendor is submitting an alternate product, component, feature or part to what is referenced in the specifications, the proposals **must** be accompanied by descriptive literature, marked and indicate the exact items to be furnished, with an engineering drawing of the same. **Failure to supply information requested may result in rejection of bid.** Where no exception is taken, the word "None" shall be neatly printed or typed on the exception sheet. **Failure to supply information and/or failure to complete the bidder's exception spaces in the prescribed manner may disqualify bid. It shall be understood that if no exception is taken, the vendor shall supply all material exactly as specified. No substitution will be permitted after receipt of bids.**

UNIT INFORMATION FORM: Vendor shall complete the entire Unit Information Form. **Failure to complete form may result in rejection of bid.**

MANUFACTURER'S PRODUCTION SHEET: The vendor shall furnish one (1) copy of the actual Factory Production Sheet for each unit provided. The copies of the Factory Production Sheet shall be submitted at the time of the Authority's inspection of the unit.

TRAINING: It shall be the responsibility of the successful bidder to supply all safety, operational and service training to New Jersey Turnpike Authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer's owner manual, along with actual operation of equipment. The instructor shall emphasize all proper uses for safe operation. The training shall include but not limited to all general troubleshooting of the hydraulic system and associated electronics. The instructor shall also emphasize the proper use of tools and test equipment along with general shop safety. The service seminars shall be similar to factory and manufacture type schools. The training shall be scheduled and take place at two (2) sites, eight

(8) hours each site designated by the New Jersey Turnpike Authority. Thirty to forty-five days after the initial training the awarded vendor shall provide an additional refresher training seminar at two (2) designated sites approximately two (2) hours for each site.

AUTOMOTIVE TECHNICIAN TRAINING: The awarded vendor shall provide accredited authorized manufacturer new model training on the vehicles listed in this bid package. Sixteen (16) hours of training per technician shall take place at two (2) designated Authority facilities for approximately fifty (50) technicians at each facility.

LABELS: Plastic stick-on labels shall not be acceptable.

ADVERTISEMENTS: No Dealer advertisements shall appear on unit or any other related equipment.

ACCESSORIES: All accessories shall be manufacturer installed when the item is available from the manufacturer.

FACILITIES: Bidders shall represent a manufacturer, which has in operation a factory adequate for the manufacture of the equipment, which it proposes to furnish. The manufacture(s) whose associated equipment or products are bid shall have a full service warranty and parts supply facility that can guarantee availability of parts within 24 hours after telephone order and shall be located within a 100 mile radius of either Central Shops Maintenance Facility (exit 8 on the NJ Turnpike) located in Hightstown, NJ 08520 or Telegraph Hill Central Maintenance Facility (exit 116 on the GSP) located in Holmdel, NJ 07733. This facility will be required to establish an in-house warranty program and provide all warranty work related to the equipment in the bid proposal. The bidder shall submit the locations, names and telephone numbers of people who are authorized to service the equipment or who can be reached for emergency service.

Location _____

Phone # _____

Contact _____

Name & Title

**SPECIFICATIONS: TAC-2014
TANDEM AXLE CHASSIS**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. Tandem axle chassis shall be a new model current design 2015 International Model 7500 SFA (Set Forward Axle) 6 x 4 or an approved equivalent.		
FRAME:		
A. 10.125" x 3.580" x .312" 120,000 psi minimum main frame rails, one piece, extending 20" ahead of grille.		
B. 10.813" x 3.892" x .312" full “C” channel reinforcement, one piece extending the entire length of main frame including extension.		
C. 3,580,800 RBM (Resisting Bending Movement) minimum .		
D. Huck fasteners shall be used for all cross members, fuel tank, and battery box brackets.		
E. Bolt-on or welded frame sections shall not be acceptable.		
F. The wheelbase (WB) shall be 207".		
G. 62,000 lbs. G.V.W.R.		
H. Electro-statically painted frame rails (written certification required).		
I. Bolt-on front tow hooks with opening through the bumper. One right, one left within easy access to afford quick operator hook up of tow chain. Hooks shall be drop forged steel with a minimum of 44,500 lbs. working load. Grade 8 bolts shall be used to attach hook to chassis. Each hook shall be curved upward to assure tow chain shall not fall off when no tension is present. Welded on hooks shall not be acceptable.		
J. The Authority reserves the right to determine final CA and AF dimension at issuance of Purchase Order.		
FRONT BUMPER:		
A. Heavy-duty steel 10" channel shall replace standard front bumper and shall be bolted via grade 8 bolts and self-locking elastic nuts to the front frame extension of		

the chassis.		
B. Front bumper with ends swept back at 30° angles and bolt-on front tow hooks with opening through bumper.		
C. The bumper shall have means for mounting the front license plate.		
D. Two (2) steps, one (1) on each side shall be constructed of 2" Bustin or approved equivalent material.		
E. Steps shall be 8" wide x 8" deep.		
F. Step brackets shall be a minimum of 3/8" x 2" A36 material.		
FRONT CATWALK:		
A. The front frame extension shall incorporate an aluminum catwalk between the bumper and the chassis.		
B. The catwalk shall be three (3) section aluminum dirt shedding and have a separate top edge for positive foothold.		
C. Material shall be Bustin or approved equivalent and be attached via rust proof stainless steel bolts with self-locking elastic insert nuts.		
D. Catwalk shall be located to provide best possible access to the chassis and engine components.		
E. The outer two (2) sections shall be capable of supporting 500 lbs.		
FRONT AXLE:		
A. 18,000 lbs. capacity front axle.		
B. Greaseable drag link and tie rods.		
C. Weight capacity of front axle must be able to accommodate snow plow hitch and snow plow specified in this bid package.		
REAR AXLE:		
A. 46,000 lbs. capacity rear axle tandem.		
B. Both forward rear axle and rear axle shall have a driver controlled locking differential with lube pump.		
C. An automatic disengage feature shall be supplied to disengage the locking mechanism after the vehicle reaches a speed of 20 mph.		
D. Axle switch shall be LED back-lighted labeled "Lock Diff" and shall be OEM incorporated.		
E. Factory installed synthetic gear lube and magnetic drain plug.		
F. Axle ratio shall enable vehicle to cruise at 65 mph at maximum G.V.W.R.		
FRONT SUSPENSION:		
A. 18,000 lbs. capacity front suspension.		
B. Parabolic taper-leaf front springs with shock absorbers.		
C. 2,000 lbs. capacity auxiliary front springs.		
REAR SUSPENSION:		
A. 46,000 lbs. capacity.		
B. Rear suspension shall be Hendrickson HMX-460-54 or approved equivalent walking beam type 54" axle spacing, rubber end bushings, transverse torque rods and shock absorbers.		
BRAKES:		
A. ABS anti-lock air brakes.		
B. Brake pedal and valve shall be firewall suspended.		

C. Diagnostic electronic capability shall inform operator of any malfunctions including area of system failure.		
D. Air dryer Meritor System Saver and a DV-2 moisture ejector or approved equivalents on wet tank.		
E. 16.5 cubic foot air compressor with dual air supply gauges.		
F. Automatic slack adjusters/drain valve shall be provided.		
G. All air lines shall be color coded.		
H. Dust shields shall be provided on front/rear brakes.		
I. Air tanks shall be aluminum and painted black.		
J. Parking brake shall be provided. Horn shall sound when parking brake is not set with ignition off and any door opened.		
K. ABS trailer connections four (4) wheel, with parking brake valve combination valve for truck and trailer, and hand control valve mounted on steering column.		
STEERING:		
A. Full hydraulic power steering.		
B. Steering column shall be tilt and telescoping.		
C. Air horn switch, cruise control switch, and throttle switch shall be located in the steering wheel.		
EXHAUST SYSTEM:		
A. Horizontal diesel particulate filter shall be located outside frame rail and under cab floor.		
B. Exhaust pipe shall be vertically mounted on a bracket and attached to the frame rail.		
C. 90° curved exhaust pipe and heat shield shall be supplied.		
D. An electronically activated engine compression brake.		
E. Exhaust system support brackets shall not be mounted to cab.		
F. Muffler, tailpipe or brackets shall be designed not to interfere with V-box.		
ELECTRICAL:		
A. Programmable electrical system with self-diagnostics. System shall be designed to isolate electrical problems on the input/output side of circuit and display fault codes. Color coded and continuously numbered wiring shall be supplied.		
B. All electronically controlled accessory equipment shall be interfaced to a Body Integrated Remote Power Module mounted inside cab; up to 6 outputs and 6 inputs, maximum 20 amps per channel, maximum 80 amps for each required module. (Includes 2 dash-mounted switch packs with 6 switches latched or momentary/labeled and back-lighted) with this system including but not limited to switches, controls and indicators. Anticipated provisions shall be communicated to the chassis manufacture prior to chassis build.		
C. All circuits shall be protected by manual reset circuit breakers or fuses and shall be mounted in the OEM central power distribution panel.		
D. A pre-trip inspection to test exterior light functions shall be supplied that shall enable the operator to test the exterior lights (body lights, snow plow lights, parking lights, headlights low& high beam, right/left/rear turn lights, brake lights, spinner light, rear warning, and rotator lights) by means of a button located in the cab.		
E. Three (3) 12-volt 1950 CCA maintenance free batteries with over crank		

protection. Batteries shall be mounted on a steel (powder coated black) box with aluminum (not painted) cover.		
F. AM/FM radio with weather band, clock and speakers.		
G. Turn signal switch shall include “flash to pass” feature.		
H. Stop, turn, tail, and back-up lights shall be Truck Lite model LED or approved equivalent.		
I. The following shall automatically turn on when wiper switch is engaged: <ul style="list-style-type: none"> • Halogen headlights • Taillights • Marker lights 		
J. Daytime running lights, fender mounted dual faced amber/amber directional lights in addition to front corner directionals shall be provided.		
K. Five (5) LED cab marker lights shall be provided.		
L. Wipers shall have a speed control, which forces wipers to their slowest intermittent speed when parking brake is set and wipers are left on for more than 30 seconds.		
M. 185-amp Leece Neville BLP2356H brushless, pad-mounted or approved equivalent alternator.		
N. Gauges & Lights: <ul style="list-style-type: none"> • Oil pressure • Water temperature gauge • Warning lights • Voltmeter • Speedometer • Tachometer • Odometer • Trip miles • Engine hours • Trip hours 		
O. Dual electric horns.		
P. Dual single tone rectangular chrome air horns mounted on top of cab with snow shields.		
Q. Back-up alarm shall be a Preco 1059 electronic solid state, dual function 112 dba or approved equivalent. OEM installed and mounted under the right taillight. Alarm shall be wired in a self-adjusting mode to automatically produce 10 decibels nominal above the surrounding noise.		
R. Body builder harness shall be located inside the cab. Included shall be stop, tail, turn, and marker light circuits, ignition controlled auxiliary feed, and ground.		
S. Chassis manufacture shall supply 2-way radio wiring with 20-amp fuse protection. Shall include 5-amp fuse and be routed to overhead radio console.		
T. Chassis manufacture shall supply a 36" wiring harness for separate snow plow head lights and turn signals with LED back-lighted rocker type switch.		
U. A weatherproof module for body builder connections shall be located inside cab.		
V. All switches must be back-lighted and OEM labeled.		
W. All electrical powered auxiliary equipment not installed by chassis		

manufacturer shall be wired in accordance with section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be installed in a weather tight junction box or weather pack connector. Solderless connectors are unacceptable. Any holes drilled for installation of accessories, wiring, brackets, etc. shall be properly primed, sealed with silicone and painted prior to installation to prevent rust.		
X. In addition to the control switch, all lighting and accessories shall turn off with ignition key “off” except for Federal D.O.T. requirements.		
Y. The following switches shall be provided by the chassis manufacturer and will be incorporated in the chassis standard wiring and circuit protection. However, it shall be the responsibility of the body supplier to ensure capability of installed equipment with switches provided by chassis manufacturer. <ul style="list-style-type: none"> • Plow lights • Front rotator lights • Rear warning lights • Spinner light 		
CAB-MOUNTED ROBC SOCKET:		
A. Roll Off Body To Cab (ROBC) Socket using a 12300 Cole Hersee or approved equivalent weather proof 13-pole socket shall be mounted to the lower left rear section of the cab exterior, facing the rear of the truck.		
B. Control and sensor inputs of all electrically powered roll off body auxiliary equipment shall originate at an OEM multiplexed remote power module mounted in the cab.		
C. Wire harness routing from the remote power module to the ROBC socket shall be fabricated using 98647 Cole Hersee 13-conductor or approve equivalent cable.		
ENGINE:		
A. Fully electronic, 6-cylinder turbo-charged diesel engine.		
B. 330 Horsepower minimum .		
C. 1150 lb/ft Torque minimum .		
D. 570 cubic inch displacement.		
E. Replaceable “wet” type cylinder piston liners. Oil cooled pistons.		
F. Positive valve rotators on both intake and exhaust valves.		
G. Cruise control integral with steering wheel.		
H. Heavy-duty starter with over crank protection.		
I. Provision for remote mounted engine control to include wiring for body builder installation of PTO controls, ignition switch controlled.		
J. Heavy-duty radiator with two (2) speed air operated fan drive.		
K. Ethylene Propylene Diene Monomer (EPDM) hoses or approved equivalent.		
L. Constant torque heat shrink radiator clamps.		
M. 120-volt engine block heater with weather protected flip plug shall be located under driver’s door.		
N. Extended long life coolant protected to at least -40° F. The system shall be tagged indicating make, type of anti-freeze and degree of protection.		
O. Low coolant level warning light and audible alarm.		
P. Automatic engine shutdown system for oil pressure, coolant temperature, and		

coolant level with a 30 second delay and auto override.		
Q. Integrated fuel pressure sensor.		
R. Heated fuel/water separator.		
S. All engine and emission related system fluids shall remain as a stable liquid unaided within the normal expected vehicle ambient temperature operating range of -20° F to 100° F.		
T. Oil pan: an extended life coated oil pan consisting of metal/plastic/metal construction shall be provided. The material shall be a single sheet composite with two (2) layers of sheet metal sandwiching plastic material. The triple composite shall have an electro-deposition prime coat with powder coating for the final finished coat. Written certification is required.		
TRANSMISSION:		
A. Allison 3000 RDS-P or approved equivalent.		
B. Six (6) speed automatic with dash mounted push button control.		
C. Included shall be a water-to-oil transmission oil cooler and temperature gauge.		
D. Synthetic transmission fluid shall be used and installed by OEM.		
E. Chassis manufacturer installed PTO accommodation for electric/hydraulic PTO and shall have dash mounted back-lighted rocker type switch indicator light built into gauge cluster. Shall have wiring incorporated and over-speed protection programmed within the OEM electrical system.		
F. TCM (Transmission Control Module) shall be located inside cab.		
FUEL TANK:		
A. 50-gallon minimum capacity aluminum fuel tank with stainless steel straps.		
B. Thermostat controlled electric fuel heater and filter with filter restriction/change indicator.		
C. Fuel tank shall be labeled in one inch high green letters " DIESEL FUEL ONLY ".		
D. Vent tube for fuel tank shall be attached to a bracket via zip-tie.		
FRONT TIRES & WHEELS:		
A. 315/80R22.5 18 ply highway tread radials.		
B. Hub piloted black powder coat 9 x 22.5" disc wheels.		
C. Oil wheel bearings.		
REAR TIRES & WHEELS:		
A. 12R22.5, 16 ply on/off highway tread radials.		
B. Hub piloted black powder coat 8.25" disc wheels.		
PINTLE HOOK & PLATE:		
A. The pintle hook shall be a forged steel ridge mount design sized to carry an 8,000 lbs. vertical load and 40,000 lbs. gross trailer weight.		
B. The pintle hook shall include a secondary cable tethered safety pin with a double wire tab lock. A cotter pin and chain shall not be an acceptable secondary lock pin arrangement.		
C. A ½" thick by at least 36" wide formed steel plate, full width of chassis frame rails, with a 3" return flange at the bottom shall be bolted to the chassis frame.		
D. Bottom and side support gussets shall be included.		
E. Two (2) swivel ¾" cold rolled steel "D" loops, 3" i.d. shall be attached to the		

bottom flange.		
F. Properly sized grade 8 bolts shall be used throughout the installation.		
G. The pintle hook height shall be 26" from ground to center of hook.		
H. The pintle hook shall be attached to the frame plate with grade 8 bolts in accordance to the manufacturer's specification.		
I. A 7-pole round pin type trailer connection socket (Cole Hersee 12310) or approved equivalent for trailers with electric trailer brake controller systems shall be OEM provided, wired for turn signals combined with stop, compatible with trailers that use combination stop, turn lamps as per the seven (7) wire plug as per Specifications: 7PTC. Black in color. Exact location shall be determined by contacting the NJTA Inspector prior to mounting.		
J. A 7-pole round pin type trailer connection socket (Cole Hersee 12080-11 ABS) or approved equivalent for trailers with air brake, antilock air brake systems shall be OEM provided, wired for turn signals combined with stop, compatible with trailers that use combined stop, tail turn lamps as per the seven (7) wire plug as per Specifications: 7PTC-ABS. Green in color. Exact location shall be determined by contacting the NJTA Inspector prior to mounting.		
K. Complete ABS air brake trailer system including a hand valve control and trailer protection valve shall be installed with the exception of the Glad Hands. The Glad Hand outlets on the pintle plate (location to be determined by the Authority) shall be plugged to prevent air leakage (swivel glad hands 45° cast iron, 3/8" port size, 180° rotation). The Glad Hands shall be installed at a location determined by contacting the NJTA Inspector prior to installation.		
CAB:		
A. Conventional galvanized steel cab.		
B. Hood shall be a 3-piece design with stationary bright finished grille.		
C. Odometer shall display miles, trip miles, engine hours, trip hours, and engine/vehicle system codes.		
D. Included shall be rear air bag suspension.		
E. All glass shall be tinted including vent windows that open.		
F. Body builder "knockout" shall be provided in cab floor for body builder connections.		
G. Air operated, high-back vinyl driver seat with headrest and lumbar support and inboard armrest.		
H. High-back vinyl non-suspended passenger seat with headrest.		
I. 3-point seatbelts with automatic retractors.		
J. Overhead console with radio pocket and storage.		
K. Chassis manufacture shall supply 2-way radio wiring with 20 amp fuse protection. Shall include 5 amp fuse and be routed to overhead radio console.		
L. Dome light, left and right interior courtesy lights shall be mounted on door pockets and lights shall activate when doors are opened.		
M. Dual sun visors.		
N. In-dash cup holder.		
O. Driver's door storage pocket.		
P. Interior grab handles on both sides.		
Q. Driver's side chrome exterior grab handle with rubber insert.		

R. Exterior mirrors shall be approximately 16" x 7" with breakaway style "C" stainless steel brackets and convex mirrors. A look down 6" x 10" panoramic mirror shall be mounted above passenger door. Both primary mirrors shall be motorized and controlled by a switch located in cab within easy reach of the driver. Primary and convex mirrors shall be thermostatically heated.		
S. Wipers shall be dual speed including intermittent feature.		
T. HVAC system shall include heater/defroster/ air conditioning. Air conditioning system shall have self-diagnostic features with dash displayed fault codes.		
U. Standard instrumentation package shall be included with plug in type gauges.		
V. Hood wheel well rubber fender extensions shall not be acceptable.		
MISCELLANEOUS:		
A. Provided in cab a dry chemical 5 lb. "UL" listed fire extinguisher suitable for ABC class fires. A quick release type metal bracket shall be used to mount extinguisher to base of control panel pedestal. <u>Note</u> : Holes may not be drilled into pedestal to mount quick release bracket due to wiring running through pedestal. Wires passing through floor at bottom of pedestal must be neatly and uniformly filled with clear silicone.		
B. Provide a D.O.T. approved reflective triangle kit in cab.		
PAINT:		
A. All metal parts shall have the mill scale and oil removed by means of a high pressure chemical cleaner prior to painting.		
B. All frame and running gear shall be painted manufacturers black.		
C. The top of the hood shall be painted non-reflective flat black.		
D. Color of paint shall be DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. The paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
E. Wheels, bumper, battery box (not battery cover), frame, and engine oil pan shall be powder coat paint.		
DIAGNOSTIC, REPAIR & PARTS:		
A. Awarded vendor shall provide a three (3) year manufacturers Web-based diagnostic, repair, and parts subscription including truck chassis and engine.		
B. Diagnostic and repair information for transmission, air brake system, and other installed components shall be Web-based or PC based software.		
C. Five (5) complete sets of factory diagnostic and repair vehicle interface software including all cabling and connections for a laptop computer or hand held device.		
MANUALS:		
A. A detailed schematic and description of all body hydraulics, electrical, and other components not installed by chassis manufacturer shall be provided. Six (6) of each of the following manuals in either paper form or computer disc shall be supplied upon delivery: Operation, Repair, Maintenance, Parts, and Electrical.		
WARRANTY:		
A. Engine: five (5) years/150,000 miles/5400 hours including all electronic engine components and injectors at 100% parts and labor.		
B. Cab: five (5) years unlimited miles for perforation, corrosion, and structure.		
C. Frame: 100% parts and labor for seven (7) years/unlimited miles for cracks.		
D. Transmission: five (5) years/unlimited mileage at 100% parts and labor.		

SPECIFICATIONS: HLMTS-2014

HOOK LIFT MATERIAL TRANSPORT SYSTEM

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. New current model material transport system (hook lift) to be installed onto tandem chassis designated in this specification.		
B. Awarded vendor shall be responsible for all component and equipment compatibility with chassis.		
C. Equipment shall be new and of the latest design and be in current production at time of submission of bid.		
D. Vendors must supply detailed specifications, drawings with dimensions, technical sheets, and pictures describing exact equipment that shall be supplied.		
E. All standard and optional equipment shall be OEM (Original Equipment Manufacturer) items, when available.		
F. All electrical powered auxiliary equipment not installed by chassis manufacturer shall be wired in accordance with Section A & B (Tandem Axle Chassis/Electrical) and include proper circuit protection. All wiring shall be installed in a weather tight junction box or weather pack connector. Solderless connectors shall not be acceptable. Any holes drilled for installation of accessories, wiring, brackets, etc. shall be properly primed, sealed with silicone and painted prior to installation to prevent rust.		
CAPACITIES:		
A. Lifting capacity shall be 40,000 lbs. minimum .		
CONTAINER LENGTH:		
A. 14' to 18'.		
SUBFRAME HEIGHT ABOVE TRUCK FRAME:		
A. Container height above frame rails shall be approximately 10½".		
DUMP ANGLE:		
A. Dump angle shall be 50°.		

HOOK HEIGHT:		
A. Hook height shall be adjusted manually between 54" and 62" (+/-1").		
INSTALLED WEIGHT:		
A. Hook lift shall weigh approximately 4,500 lbs.		
CONTAINER PICK-UP RANGE:		
A. Container pick-up range shall be able to engage container at 30° either side of center.		
B. Pick-up container 10" below grade with an approximate chassis height of 41".		
CONTAINER POSITION USING SLIDING JIB:		
A. Unit shall have the capability to slide container a minimum of 39" horizontally to accommodate short containers and achieve best weight distribution.		
CONTROLS:		
A. In cab shall be dual joysticks for operating hook lift: <ul style="list-style-type: none"> • One (1) joystick-lift and lower container. • One (1) joystick-slide container. • The joysticks shall be mounted in a single hand held, tethered, pendent control. 		
NOTE: No controls shall be located outside of vehicle.		
HYDRAULIC MODE SLECTION:		
A. A 3-position momentary hydraulic mode selection switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be labeled: HOOK LIFT 1st position • Shall be labeled: PLOW 3rd position • Shall have a green "On" indicator light 1st position. • Shall have a green "On" indicator light 3rd position. • Must be depressed to operate. 		
B. The 3-position momentary mode system shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. • A circuit failure within the hydraulic mode system layout shall flash the green on indicators in the 3-position momentary hydraulic mode switch. • HOOK LIFT switch position shall activate the hook lift joystick pendant functionality. • The PLOW switch position shall activate the plow and spreader control functionality. 		
C. The hydraulic mode system programing shall include the following features: <ul style="list-style-type: none"> • The 3-position momentary hydraulic mode switch shall not operate unless the PTO is engaged. • The "HOOK LIFT" mode shall not operate above 5mph. 		
D. See Specifications: CHS-2014 Central Hydraulic System.		
TIPPING CYLINDERS:		
A. There shall be two (2) double acting tipping cylinders with nitride piston rods.		
B. Tipping cylinder circuit shall be equipped with double pilot actuated check		

valve.		
SLIDING CYLINDER:		
A. One (1) double acting sliding cylinder with nitride piston rods.		
B. Sliding cylinder circuit shall be equipped with a single pilot actuated check valve.		
SAFETY INTERLOCK SYSTEM:		
A. Safety lock system shall be installed to prevent actuation of jib and also confirming latches are fully engaged.		
B. The hoist shall be equipped with two (2) proximity switches, one to prevent actuation of jib when operating in dump mode and the second to confirm dump latches are fully engaged.		
HOOK LIFT STOWED POSITION SENSOR:		
A. The hook and jib stowed position shall be monitored and annunciated visually and with audible indicators.		
B. A normally closed inductive proximity switch shall be incorporated with the hook and jib assembly to confirm the stowed position. <ul style="list-style-type: none"> • Shall be incorporated within the chassis multiplexed body builder logic provision. • The inductive operating clearance shall be adjustable and set in the middle of the receptive range. • The proximity switch shall be field replaceable and include a weatherproof connector. • The switch shall function in a temperature range of between -40° to +170° F and withstand harsh environments. 		
C. A single hook lift annunciator shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be red in color when illuminated. • Shall be back-lit labeled: HOOK LIFT. • Shall flash when the hook lift mechanism is out of the stowed position. 		
D. A dash cluster audible alarm shall include the following features: <ul style="list-style-type: none"> • Steady sound when the hook lift mechanism out of the stowed position with the parking brake released. • No sound if the parking brake is set when the hook lift mechanism is out of the stowed position. 		
CONTAINER HOLD DOWNS:		
A. The hoist shall be equipped with passive positive steel latches to lock the container into position during transport or dumping.		
PINS & BEARINGS:		
A. All pins shall be hardened.		
B. All points of rotation shall be equipped with bronze bushings and grease fittings (permanently lubricated bushings are unacceptable).		
TIPPING FRAME:		
A. Tipping frame shall be able to lock to hoist frame when in pick-up mode.		
REAR ROLLERS:		
A. Hoist shall be equipped with tandem rear rollers.		

HYDRAULIC LINES & FITTINGS:		
A. All hoses, tubes, and fittings shall comply with SAE/JIC specifications.		
B. All lines shall be anchored using metal mounting brackets and metal vinyl coated cable/conduit clamps every 12" to prevent vibration and routed as to not interfere with body or other components. Plastic cable ties shall not be acceptable.		
C. Steel hydraulic tubing shall be used in all locations wherever possible.		
D. All hydraulic quick-couplings shall be brass.		
DUMP MODE:		
A. The hoist shall be equipped with a soft stop feature that shall reduce the container lowering speed just prior to the container coming to rest on the hoist.		
REAR BUMPER:		
A. The hoist shall be capable of using a rigidly mounted rear bumper that complies with State and Federal Laws with regard to container overhang.		
SAFETY REQUIREMENTS:		
A. Hoist shall comply with all State and Federal Regulations related to safety.		
WARRANTY:		
A. The hoist shall be warranted against defects for a period of at least three (3) years on all structural components.		
FENDER & LIGHTS:		
A. Hoist shall have plastic fenders.		
B. There shall be two (2) identical tandem fenders bolted to .25" formed channel brackets.		
C. A total of four (4) anti-spray mud flaps shall be attached to the fenders.		
D. One (1) LED stop, turn, and back-up light shall be mounted in accordance with DOT regulations to each side at the rear.		
E. The taillights shall be wired in accordance with sections A & B (Electrical) within the TAC-2014 TANDEM AXLE CHASSIS specification utilizing the chassis manufacturers tail light harness body builders' provision.		
F. If required as per FMVS108 light standard regulations, side and rear marker requirements shall be installed in the appropriate locations, illumination shall be LED type. Body marker lights shall illuminate when the dash-mounted headlight switch is depressed to the marker light and headlight positions and automatically when the wiper switch is engaged.		
PAINT:		
A. Hoist shall be painted same color as chassis supplied.		
B. Hook shall be painted highway yellow.		
MANUALS:		
A. Each hoist supplied in this bid package shall contain one (1) of the following manuals: Operation, Maintenance, Troubleshooting, and Parts.		

**SPECIFICATIONS: SSFBB-2014
HEAVY-DUTY SALT SPREADER FLAT BED BODY**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. Heavy-duty flatbed body shall be mounted to the V-box salt spreader listed in Specification: VB-2014 (Stainless Steel V-Box Hopper Spreader & Components).		
B. The flatbed body shall be structurally designed to accommodate the V-box salt spreader.		
C. The overall width of the flatbed body shall be 96".		
D. The overall length shall accommodate the V-box salt spreader.		
FLOOR:		
A. Floor plate: ¼" thick minimum .		
B. Cross members: structural channel.		
C. Gusset plates shall be 3/16" on every other cross member.		
D. Main rails: 6" x 2" x ¼" structural tube.		
E. Side rails: 6" x 3" x 3/16" structural tube.		
F. Wheels: 8" heavy-duty pipe 10" long.		
G. Hook plate: ¾" steel plate 12" x 36" fully welded.		
H. Hook bar: 2½" round bar.		
I. Hook A-Frame: 6" x 2" x ¼" structural tube.		
J. Hook height: 61¾".		
K. Stake pockets: ¼" steel plate formed.		
L. Rub rail: ⅜" steel plate.		
M. Wheels shall be able to lower at rear approximately 19" below floor to accommodate tip up spinner.		
BULKHEAD:		
A. Bulk head frame: 50" high, 6" x 2" x 3/16" structural steel tube.		
B. Bulk head sheet: 11-gauge steel plate.		

C. Screen window shall be expanded metal to allow view.		
FINISHING:		
A. All rails, tubing, channel, and framing shall be one piece.		
B. Flatbed body shall be coated with rust-inhibitive primer.		
C. DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. The paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
DOT REGULATION COMPLIANCE:		
A. If required as per FMVS108 light standard regulations, side and rear marker requirements shall be installed in the appropriate locations, illumination shall be LED type. Body marker lights shall illuminate when the dash-mounted headlight switch is depressed to the marker light and headlight positions and automatically when the wiper switch is engaged.		
B. Marker system lighting shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. 		
C. Shall interface with the ROBC junction box outlined in the SPECIFICATIONS: VB-2014 STAINLESS STEEL V-BOX HOPPER SPREADER & COMPONENTS in the “ELECTRICAL WIRING” section.		
SPREADER INSTALLATION:		
A. The spreader shall be bolted down to the body with suitable grade 8 fasteners through a 2" nominal hardwood runner.		
B. Four (4) chain binders shall be installed—one at each corner.		

**SPECIFICATIONS: VB-2014
STAINLESS STEEL V-BOX HOPPER SPREADER & COMPONENTS**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. The spreader required under these specifications shall be of the heavy-duty type and be mounted onto the material transport system (hook lift) designated in this specification.		
B. Monroe Model MCV-216-84-62 or approved equivalent.		
C. Spreader shall consist of a 304 stainless steel V-box, distributor spinner assembly with power drive, and all components necessary to make a complete operating unit.		
D. Spreader shall be capable of spreading uniformly sand, salt, cinders, calcium chloride or mixtures up to a width of 40 feet.		
HOPPER:		
A. Hopper shall be of welded 304 stainless steel construction and shall have an inside hopper length of 18' with a struck capacity of at least 14.0 cubic yards and a minimum of 16.0 heaped cubic yards.		
B. Overall height shall not be greater than 62" above mounting surface.		
C. Hopper outside width shall not be more than 84".		
D. Spreader hopper shall be a minimum of 304 stainless steel, 10-gauge.		
E. Body shall be rigidly constructed and top edge of body shall be 2" double crimped formed for greater rigidity.		
F. Body long sills shall be at least 3/16", 7-gauge 304 stainless steel and shall be over hung for supporting the spinner assembly. The longitudinals shall begin at the end of the hopper with a bolt-on flange assembly welded in place to bolt on replaceable long member tail kit.		
G. The channel cross sills shall be stainless formed channel iron that tie the lower edge of the longitudinals to each side support.		
H. A bolt on 6" x 9 lb. flange “H” beam shall be elevated 3" above the top edge of		

hopper providing a longitudinal brace and hinge point for the top screens. There shall be a 2" x 2" 304 angle iron welded from the "H" beam to each hopper side for additional side support.		
I. The body and conveyor longitudinals shall be electrically welded into a rugged solid unit with a continuous weld between the outside joint to prevent rust.		
J. There shall be 10-gauge 304 stainless steel formed side supports that extend the full side angle height spaced on approximately 2" centers.		
K. Heavy-duty bolt-on lift loops shall be provided with pre-punched locations on the front and rear of the body.		
L. The rear end plate shall be reinforced inside and supported to give maximum strength.		
CONVEYOR:		
A. The conveyor system shall be a chain bar flight type running longitudinally with the body feeding material to the feed opening gate.		
B. The overall width of the conveyor shall not be less than 24".		
C. The conveyor chain shall be heat-treated; 2.25" pitch pintle type with 7/16" diameter pins and an average ultimate strength of 21,000 lbs. per strand.		
D. The chain shall have 3/8" x 1 1/2" x 18 3/4" cross bars welded on the top and bottom of every other link approximately 4 1/2" on center and shall have an overall width of 22 1/4".		
E. The conveyor chain shall be driven through two (2) worm drive gear boxes by low speed high torque hydraulic motors directly coupled to the gear boxes and protected by cast housing. Gear boxes shall have a 6:1 reduction.		
F. The cast iron gear boxes shall have hardened and ground bronze gears mounted on a 2" diameter drive shaft and supported on tapered roller bearings.		
G. Gears shall be machine cut and mounted in anti-friction sealed bearings and running in oil.		
H. Eight (8) tooth sprockets drive and idler shall be cast iron, keyed to the 2" diameter drive shaft and a 2" diameter idler shaft.		
I. Both conveyor shafts shall have heavy-duty, dust sealed self-aligning 4-bolt flange bearings equipped with grease fittings. There shall be a spring loaded idler adjustment assembly with 4" of adjustment.		
J. 10-gauge stainless steel replaceable chain shield shall cover chain link strands exposing only the drag bar to the material.		
K. The conveyor floor shall be a flat design and manufactured or replaceable 3/16" 304 stainless steel and rolled over edges.		
L. Feed gate shall be constructed of 10-gauge 304 stainless steel with an opening of 18" x 12" and shall be opened and closed by means of enclosed screw jack with operating handle extended to body side for convenience of operation.		
M. The conveyor shall be equipped with an integral front wiper and external rear wiper.		
DISTRIBUTOR SPINNER ASSEMBLY:		
A. The distributor disc shall be 20" in diameter and constructed of stainless steel with stainless steel formed fins designed to spread material from 4' to 40'.		
B. Material shall be guided from conveyor end to distributor disc by means of two (2) adjustable internal 10-gauge stainless steel material flow deflectors.		
C. The disc shall be mounted on a cast iron replaceable hub that shall be connected		

directly to the top of the spinner motor.		
D. The entire spinner assembly shall be manufactured of 10-gauge stainless steel and be adjustable in height.		
E. Four (4) external baffles, one on each side of spinner shall be provided.		
F. Baffles shall be adjustable without the use of tools.		
G. A diverter chute shall be incorporated as part of the distributor housing, which shall permit discharging of material from body without striking spinner.		
H. Distributor spinner assembly shall be mounted so that it can be tipped up out of the way for flat level storage or to discharge material without going through the spinner chute. The spinner assembly shall be tipped up by means of a hand winch with brake assembly.		
I. A 12" long spinner extension kit shall be supplied.		
POWER DRIVE:		
A. Power drive shall have three (3) hydraulic motors-one (1) to power the spinner and two (2) to power the conveyor.		
B. Hydraulic motors shall be of the low speed high-torque roller type having minimum manufacturer's torque ratings of 730 inch pounds for spinner and 2450 inch pounds for the conveyor motors.		
C. The spinner motor shall be directly coupled to the spinner hub eliminating the need for an extension shaft or bearing.		
D. The conveyor motors shall be integrally mounted to conveyor gear box.		
SPREADER HYDRAULIC LINES:		
A. All necessary hoses and quick-disconnects to the front bulkhead of the platform (listed above) for a complete installation shall be supplied. Hook up hoses from the hook lift hydraulic valves to Hook Lift Material Transport System frame using bulkhead fittings and brass quick-disconnects.		
B. Stainless steel pipe shall be used for long straight lengths along the spreader box.		
C. Hoses from the Hook Lift Material Transport System frame to the bulkhead of the flat bed shall be brass quick-disconnect fittings and 90° Parker bulkhead fittings or approved equivalent.		
D. Hydraulic line storage bracket or loop shall be provided to secure the hoses and fittings from damages when the unit is being removed and is not in use.		
SCREENS OVER HOPPER:		
A. Minimum of eight (8) sectional screen assemblies hinged to an "H" beam running longitudinally the full length of the spreader by two (2) non-freeze 5/8" rod hinges.		
B. Screen sections shall have 3/8" rods welded to form a 2 1/2" square mesh, which is formed by a combination of 1/4" x 1 1/2" flat steel and 2" angle iron with edge supports reinforced by 1/4" x 1" flat steel bars.		
INVERTED "V" SHIELD OVER CONVEYOR FULL LENGTH:		
A. A bolted in, adjustable stainless steel shield shall reduce load pressure on conveyor vertically.		
LADDER:		
A. A swing up ladder shall be mounted on the left side (driver's side). The ladder shall be permanently mounted to the V-box. The ladder shall be designed and		

positioned as to not interfere with any hydraulics or accessories. A pivot arm shall be added to ladder in order for lower half of ladder to flip up and out of the way. A latch to secure ladder in this position must be installed securing ladder while in transit. (Exact location of ladder shall be determined by the NJTA Inspector prior to installation).		
CHAIN OILIER:		
A. Chain oiler shall lubricate chain and shall be gravity fed with a minimum of a 1 gallon capacity.		
PAINT COLOR:		
A. Body shall be properly cleaned with a high-pressure acid wash with <u>non</u> -stainless steel parts to be powder coated black. 304 stainless steel items shall be the natural finish.		
LIGHT BOX:		
A. Light box shall be made of 10-gauge 304 stainless steel.		
B. Box shall be made to fit under top rail of salt spreader facing out the rear.		
C. Box shall be the full width of spreader.		
D. This box shall house a total of (3) LED red ICC markers, (3) in middle of body and (2) LED red stop/turn/marker lights these lights are to be put to the outside of the spreader.		
E. A sealed wire should be extended from the bottom of box on curbside and drop below another to fit into the light plug mounted on the truck frame.		
F. Marker system lighting shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. 		
G. Three (3) ICC marker lights and two (2) stop/turn/marker shall illuminate when the das-mounted headlight switch is depressed to the marker light and headlight positions and automatically when the wiper switch is engaged.		
SPREADER LIGHT:		
A. One (1) Whelen # PFBS12 or approved equivalent, 12 diode, 1,000 lumens, 12v-1.70 amp stud/swivel mount white LED work light.		
B. The spreader light shall be used to illuminate the salt discharge from the spinner during salting operations as an indicator to the operator that salt is actually being dispensed as intended.		
C. Wiring shall be “SO” two conductor quick-disconnect weather pack connector and be impervious to weather and salt.		
D. Wires going into spinner light fixture shall be sealed with silicone.		
E. A latched “Spreader Light” switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be back-lit labeled: SPREADER LIGHT. • Shall have a green “On” indicator light. • Must be depressed to operate. 		
F. The Spreader Light system shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder 		

<p>logic.</p> <ul style="list-style-type: none"> • A circuit failure within the spreader light system layout shall flash the green on indicator in the spreader light switch. 		
REAR WARNING LIGHTS:		
<p>A. Four (4) Whelen Amber LED, 500 Series lights, Model 01-0664003-AO or approved equivalent shall be mounted to the top rear corners of the V-box, (one on each side) and the lower corners of either the V-box or the metal bracket. Stainless steel mounting boxes and stainless steel fasteners shall be used to house lights. These four (4) lights shall provide a criss-cross pattern (left top to right bottom and right top to left bottom). Exact location shall be determined by the NJTA Inspector prior to installation.</p>		
<p>B. A latched “Rear Amber Warning Lights” switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features:</p> <ul style="list-style-type: none"> • Shall be back-lit labeled: Rear Flasher. • Shall have a green “On” indicator light. • Must be depressed to operate. 		
<p>C. The Rear Amber Warning Light system shall also include the following features:</p> <ul style="list-style-type: none"> • All system wiring shall be multiplex interfaced. • All system functional features shall be controlled by programmable ladder logic. • A circuit failure within the rear amber warning light system layout shall flash the amber on indicator in the Rear Flasher switch. 		
ELECTRICAL WIRING:		
<p>A. All electrical powered auxiliary equipment not installed by chassis manufacturer (Light Box, Spreader Light, Rear Warning Lights, Marker Lights) shall be wired in accordance with Section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be routed in a secure manner, protected from incidental impact, heat, or vibration damage. All harness/wire connections shall be contained in a weather tight junction box or weather pack connector. A grommet shall be utilized and sealed with silicone whenever holes are drilled for the purpose of harness/wire routing to prevent vibration damage and water intrusion.</p>		
<p>B. Routing of all electrical powered auxiliary equipment in this section shall terminate in a weather tight Roll Off Body To Cab (ROBC) junction box mounted to the front left section of the roll off body in a location invulnerable to impact damage.</p>		
<p>C. A Roll Off Body To Cab (ROBC) harness using 98647 Cole Hersee 13-conductor or approved equivalent cable shall originate in the above mentioned ROBC junction box and terminate in a 12301 Cole Hersee or approved equivalent weather proof 13-pole plug and wired according to Specification: 13PROBC 13-POLE ROUND PIN ROLL OFF BODY TO CAB CONNECTOR.</p>		
<p>D. The ROBC harness shall be long enough to connect to the cab mounted ROBC socket without strain and short enough to avoid entanglement or other damage.</p>		
<p>E. 11750 Stor-A-Way Plug Holder or approved equivalent shall be mounted to the bulkhead portion of the body to store the ROBC harness when not in use.</p>		

MANUALS:		
A. Two (2) of each of the following manuals shall be supplied at time of delivery for each unit ordered:		
<ul style="list-style-type: none"> • Operation, Maintenance, Parts. 		

**SPECIFICATIONS: DB-2014
DUMP BODY**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID. WHERE "MINIMUM/MAXIMUM" IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. The steel dump body required under these specifications shall be of the heavy-duty type and be mounted on a frame (if necessary) in order to be lifted onto the material transport system (hook lift) designated in this specification.		
B. The dump body shall be constructed for severe use.		
C. Overall width: 96".		
D. Inside length: 14'.		
E. Inside height: 42".		
F. Capacity: 12-14 cubic yards.		
FLOOR:		
A. Minimum ¼" thick steel plate, 2-piece.		
B. Cross members: 3" x 4.1 structural channel on 12" centers.		
C. Gusset plates shall be 3/16" on every cross member.		
D. Main rails: 6" x 2" x ¼" structural tube.		
E. Floor gussets; 7-gauge inside floor gusset.		
F. Wheels: 8" heavy-duty pipe 10" long.		
G. Wheel stands: ½" plate.		
H. Wheel axles: 1½" solid round.		
I. Hook plate: ¾" steel plate 15" x 23" fully welded.		
J. Hook bar: 2½" round bar.		
K. Hook A-frame: 6" x 2" x ¼" structural tube.		
L. Hook height: 61¾".		
BULKHEAD:		
A. Bulkhead sheet: 10-gauge steel corners wrapped with 11-gauge formed steel plate and welded solid.		

B. Tarp hooks: 3/8" solid round.		
SIDES:		
A. Side sheet: 10-gauge, 42" high.		
B. Side posts: 10-gauge, 3" deep x 5" wide.		
C. Top rails: 3/16" x 4" x 3" structural tube with board pockets.		
D. Tie down bars: 5/8" solid round.		
E. Board pockets: 6" with center divider.		
F. Side boards: 2" x 8" oak.		
TAILGATE:		
A. Tailgate sheet: 10-gauge, 48" high.		
B. Framing: 3 panel tailgate.		
C. Reinforcing: 10-gauge formed steel plate with horizontal channels.		
D. Hinge: combination dump style with swing gate. NO EXCEPTIONS		
E. Hinge plates: 1/2" plate.		
F. Hinge pins: 1/4" solid round.		
G. Safety chain: 5/16" high test chain with receptors on both sides of container.		
H. Latch: heavy-duty dump style.		
FINISHING:		
A. All rails, tubing, channel, and framing shall be one piece.		
B. Dump body shall be coated with a rust inhibitive primer.		
C. Finish paint shall be manufacturer's standard Omaha Orange or approved equivalent enamel.		
TARP SYSTEM:		
A. Tarp: semi-automatic with ground level crank.		
B. Pioneer model 1500 or approved equivalent.		
C. Tarp system construction: asphalt tarp, steel tarp arms, and wind deflector.		
D. Tarp system mounting: tarp system shall be mounted to dump body container.		
REAR WARNING LIGHTS:		
A. Four (4) Whelen Amber LED Series lights, Model 01-0664003-AO or approved equivalent shall be recess mounted to the top rear corners of the dump body, (one on each side) and the lower corners of the dump body, (one on each side). The lights shall be rubber grommet mounted. These four (4) lights shall provide a criss-cross pattern (left top to right bottom and right top to left bottom).		
B. A latched "Rear Amber Warning Lights" switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be back-lit labeled: Rear Flasher. • Shall have a green "On" indicator light. • Must be depressed to operate. 		
C. The Rear Amber Warning Light system shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplex interface. • All system functional features shall be controlled by programmable ladder logic. • A circuit failure within the rear amber warning light system layout shall flash the amber on indicator in the Rear Flasher switch. 		

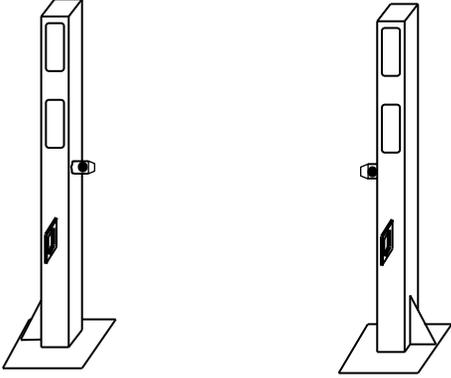
DOT REGULATION COMPLIANCE:		
A. If required as per FMVS108 light standard regulations, side and rear marker requirements shall be installed in the appropriate locations, illumination shall be LED type.		
B. Marker system lighting shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. 		
ELECTRICAL WIRING:		
A. All electrical powered auxiliary equipment not installed by the chassis manufacturer shall be wired in accordance with Section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be routed in a secure manner protected from incidental impact, heat or vibration damage. All harness/wire connections shall be contained in a weather tight junction box or weather pack connector. A grommet shall be utilized and sealed with silicone whenever holes are drilled for the purpose of harness/wire routing to prevent vibration damage and water intrusion.		
B. Routing of all electrical powered auxiliary equipment in the section shall terminate in a weather tight Roll Off Body To Cab (ROBC) junction box mounted to the front left section of the roll off body in a location invulnerable to impact damage.		
C. A Roll Off Body To Cab (ROBC) harness using 98647 Cole Hersee 13-conductor or approved equivalent cable shall originate in the above mentioned ROBC junction box and terminate in a 12301 Cole Hersee or approved equivalent weather proof 13-pole plug wired according to Specifications: 13PROBC 13-POLE ROUND PIN ROLL OFF BODY TO CAB CONNECTOR.		
D. The ROBC harness shall be long enough to connect to the cab mounted ROBC socket without strain and short enough to avoid entanglement or other damage.		
E. 11750 Stor-A-Way Plug holder or approved equivalent shall be mounted to the bulkhead portion of the body to store the ROBC harness when not in use.		

**SPECIFICATIONS: SB-2014
STAKE BODY**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. The steel flatbed required under these specifications shall be of the heavy-duty type and be mounted on a frame (if necessary) in order to be lifted onto the material transport system (hook lift) designated in this specification.		
B. Heavy-duty flatbed body with steel stakes.		
C. Overall width: 96".		
D. Overall length: 18' minimum .		
FLOOR:		
A. Floor plate: 3/16" thick treadplate steel.		
B. Cross members: C3 x 4.1 structural channel on 12" centers.		
C. Gusset plates shall be 3/16" on every cross member.		
D. Main rails: 6" x 2" x 1/4" structural tube.		
E. Side rails: 6" x 3" x 3/16" structural tube.		
F. Wheels: 8" heavy-duty pipe 10" long.		
G. Hook plate: 3/4" steel plate, 12" x 36" fully welded.		
H. Hook bar: 2 1/2" round bar.		
I. Hook A-frame: 6" x 2" x 1/4" structural tube.		
J. Hook height: 61 3/4".		
K. Stake pockets: 2" x 4" steel plate formed.		
L. Rub rail: 3/8" steel plate.		
BULKHEAD:		
A. Bulkhead frame: 50" high, 6" x 2" x 3/16" structural steel tube.		
B. Bulkhead sheet: 11-gauge steel plate.		
C. Expanded metal screen window shall be provided for view.		
RACKS:		
A. Rack height: 40" high.		

B. Rack construction: 16-gauge roll formed heavily corrugated horizontal steel slats.		
C. Rack section construction: horizontal slats shall be welded to 13-gauge hat section stakes.		
D. Horizontal slat dimensions: four (4) approximately 6" wide slats per section.		
E. Rack installation: rack sections shall be connected to each other by spring tension rack connectors. Rack sections shall lock to the platform by hand release spring latches.		
AMBER WARNING LIGHT POSTS:		
A. Two rear facing (2) amber warning light mounted posts shall be mounted at the left and right rear most outer corners of the stake body.		
<p>B. The post shall be fabricated using 2" x 2" x 1/4" steel square tube:</p> <ul style="list-style-type: none"> • Each post shall be 64" maximum length, but shall not exceed the height of the rotor lights when mounted on the truck; the tops shall be capped by a continuously welded piece of 1/4" steel plate, edges are to be ground smooth. • Each post bottom shall be plated, gusseted and continuously welded in place to the metal circumference deck frame without interfering with rack section installation and shall be flush with the outside of the rear corner rack side sections and on the inside of the corner rack rear sections. • Clevis pinned connections (John Deere # 230044-WNL) or approved equivalent shall be horizontally welded to the inside facing section of each post at a height that will pass through a predrilled reinforced hole in the upper most rack cross member. The post shall be drilled the exact outside diameter of the clevis pin and the pin shall be inserted into the drilled hole prior to continuous welding. • The clevis pin shall extend through the rack cross member allowing no more than 1/4" play when pinned in place. • All welds are to be continuous, tack welds are not acceptable. <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • The outer rear rack section center cross members shall attach the posts at spring tension rack connector receivers welded to the posts at the height adjacent to the center cross member sections. 		
C. A compatible heavy duty, ring linchpin shall be tethered to the adjacent rack section with a stainless steel cable to prevent losing the linchpin when not installed in the clevis pin, for each post.		

D. Two (2) amber warning light shall be guard protected and surface mounted to and evenly spaced within the uppermost rear facing 21" of each post.		
E. The wiring for each light head shall be contained inside each post and exit the bottom of each post through the steel deck frame and routed along the inside of the rack body frame.		
REAR WARNING LIGHTS:		
A. Two (2) Whelen Amber LED, 500 Series lights, Model 01-0664003-AO or approved equivalent shall be mounted to each post as described above. Whelen model 5BRUSH aluminum guard or approved equivalent shall be mounted with each light head to protect from impact damage. The set of four (4) lights, two (2) on each post, shall provide a criss-cross pattern (left top to right bottom and right top to left bottom).		
ELECTRICAL WIRING:		
A. All electrically powered auxiliary equipment not installed by chassis manufacturer shall be wired in accordance with Section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be routed in a secure manner, protected from incidental impact, heat, or vibration damage. All harness/wire connections shall be contained in a weather tight junction box or weather pack connector. A grommet shall be utilized and sealed with silicone whenever holes are drilled for the purpose of harness/wire routing to prevent vibration damage and water intrusion.		
B. Each light head shall be connected to the wiring at the light head with a weatherproof socket and plug connector. No other splicing or connections type shall be acceptable.		
C. Routing of all electrically powered auxiliary equipment in this section shall terminate in a weather tight Roll Off Body To Cab (ROBC) junction box mounted to the front left section of the roll off body in a location invulnerable to impact damage.		
D. A Roll Off Body To Cab (ROBC) harness using 98647 Cole Hersee 13-conductor or approved equivalent cable shall originate in the above mentioned ROBC junction box and terminate in a 12301 Cole Hersee or approved equivalent weather proof 13-pole plug and wired according to Specification: 13PROBC 13-POLE ROUND PIN ROLL OFF BODY TO CAB CONNECTOR.		
E. The ROBC harness shall be long enough to connect to the cab mounted ROBC socket without strain and short enough to avoid entanglement or other damage.		
F. 11750 Stor-A-Way Plug Holder or approved equivalent shall be mounted to the bulk head portion of the body to store the ROBC harness when not in use.		
DOT REGULATION COMPLIANCE:		
A. If required as per FMVS108 light standard regulations, side and rear marker requirements shall be installed in the appropriate locations, illumination shall be LED type.		
B. Marker system lighting shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. 		
ELECTRICAL WIRING:		

A. All electrical powered auxiliary equipment not installed by the chassis manufacturer shall be wired in accordance with Section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be routed in a secure manner protected from incidental impact, heat or vibration damage. All harness/wire connections shall be contained in a weather tight junction box or weather pack connector. A grommet shall be utilized and sealed with silicone whenever holes are drilled for the purpose of harness/wire routing to prevent vibration damage and water intrusion.		
B. Routing of all electrical powered auxiliary equipment in the section shall terminate in a weather tight Roll Off Body To Cab (ROBC) junction box mounted to the front left section of the roll off body in a location invulnerable to impact damage.		
C. A Roll Off Body To Cab (ROBC) harness using 98647 Cole Hersee 13-conductor or approved equivalent cable shall originate in the above mentioned ROBC junction box and terminate in a 12301 Cole Hersee or approved equivalent weather proof 13-pole plug wired according to Specifications: 13PROBC 13-POLE ROUND PIN ROLL OFF BODY TO CAB CONNECTOR.		
D. The ROBC harness shall be long enough to connect to the cab mounted ROBC socket without strain and short enough to avoid entanglement or other damage.		
E. 11750 Stor-A-Way Plug holder or approved equivalent shall be mounted to the bulkhead portion of the body to store the ROBC harness when not in use.		
FINISHING:		
A. All rails, tubing, channel, and framing shall be one piece.		
B. Flatbed body shall be coated with a rust inhibitive primer. Racks shall be E-coated primer.		
C. Finish paint shall be manufacturer's standard Omaha Orange or approved equivalent enamel.		

**SPECIFICATIONS: CHS-2014
CENTRAL HYDRAULIC SYSTEM**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. The system shall provide hydraulic fluid to operate the material transport system (hook lift), snow plow hydraulic cylinders, and hydraulically operated material spreader.		
B. The hydraulic system shall be capable of running three (3) or more hydraulic functions simultaneously without inhibiting the action of the other.		
C. Fluid loss protection system shall be accomplished by means of a level sensor in hydraulic tank.		
D. The complete hydraulic system including cylinders, motors, fittings, valves, hoses, etc. shall conform to the highest quality of commercial hydraulic installation standards of the following organizations: ASME, ASTM, AISI, API, FPS, ICC, ISO, JIC, MISS, NFPA, NEMA, SAE, and USASI.		
E. The hydraulic system pressure and flow requirements shall be compatible with the operating rpm ranges of the trucks engine.		
F. Bidder shall submit with bid, complete hydraulic schematic including all components with manufacturer’s names and model numbers including operational specifications.		
G. The successful bidder shall be responsible to demonstrate at the NJTA facilities the complete functional and performance capabilities of the hydraulic system and all affected components.		
HYDRAULIC PUMP AND PTO:		
A. The hydraulic pump shall be an axial piston pressure and flow compensated load-sensing type.		
B. The pump shall have a displacement of no less than 5.6 cubic inches per revolution at maximum stroke to deliver no less than 24 gpm @ 1000 engine rpm.		
C. The pump shall have a minimum 1½" suction line and a minimum ½" control drain line plumbed directly back to the reservoir.		

D. The pump shall be rated for no less than 3,600 psi and no less than 3,000 psi continuous.		
E. A Chelsea 278 series or approved equivalent hot shift PTO shall be mounted to the transmission and shall drive the pump.		
HYDRAULIC MODE SELECTION:		
A. A 3-position momentary hydraulic mode selection switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be back-lit labeled: HOOK LIFT 1st position • Shall be back-lit labeled: PLOW 3rd position • Shall have a green “On” indicator light 1st position. • Shall have a green “On” indicator light 3rd position. • Must be depressed to operate. 		
B. The 3-position momentary mode system shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. • A circuit failure within the hydraulic mode system layout shall flash the green on indicators in the 3-position momentary hydraulic mode switch. • HOOK LIFT switch position shall activate the hook lift joystick pendant functionality. • The PLOW switch position shall activate the plow and spreader control functionality. 		
C. The hydraulic mode system programing shall include the following features: <ul style="list-style-type: none"> • The 3-position momentary hydraulic mode switch shall not operate unless the PTO is engaged. • The “HOOK LIFT” mode shall not operate above 5mph. 		
SHUT DOWN SYSTEM:		
A. The shutdown feature is intended to protect the PTO pump from running dry or overheating in the event of a leak causing the hydraulic oil level to fall below a safe operating level and/or hydraulic oil temperatures rise above safe operating limits.		
B. The system shall have a float level sensor and temperature sensor.		
C. The system shall be designed so that when the float contacts open the PTO will disengage and stop pump operation.		
D. The system shall be designed so that prior to the hydraulic oil temperature reaching a critical temperature the PTO shall disengage and stop pump operation.		
E. A single “Oil Level” annunciator shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be red in color when illuminated. • Shall be back-lit labeled: Oil Level. • Shall illuminate steady when the hydraulic reservoir float level indicates low oil. 		
F. A single “High Temp” annunciator shall be incorporated with the chassis multiplexed switch panel and shall include the following features:		

<ul style="list-style-type: none"> • Shall be red in color when illuminated. • Shall be back-lit labeled High Temp. • Shall illuminate steady when the hydraulic oil temperature sensor indicates higher than acceptable oil temperature. 		
<p>G. The shutdown system feature system shall also include the following features:</p> <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. • An open circuit failure within the shutdown system feature wiring layout shall illuminate the red indicators and render the hydraulic system inoperative. 		
<p>H. Located in the manifold enclosure shall be an override switch wired to de-energize the shutdown system to facilitate diagnostics and equipment storage.</p>		
<p>RESERVOIR/ VALVE ENCLOSURE:</p>		
<p>A. The hydraulic reservoir shall be of sufficient capacity to provide the required hydraulic fluid reserve and cooling capacities.</p>		
<p>B. The hydraulic reservoir shall be constructed of at least 10-gauge stainless steel and be internally baffled.</p>		
<p>C. Mounting bracket shall be designed and supplied by the reservoir supplier.</p>		
<p>D. Mounting system shall allow for a 1" frame clearance for frame obstructions.</p>		
<p>E. Tank shall be mounted in a manner as to not transmit any truck torsional loads through the tank.</p>		
<p>F. The enclosure shall completely cover valves and components. Installation of permanent weather-striping shall be provided where necessary to eliminate moisture/debris from entering valve area and to reduce metal to metal vibration and noise.</p>		
<p>G. The enclosure lid shall be removable by one person without the use of tools.</p>		
<p>H. All valve fittings, hose ends, filter, filler breather, sending units, and any electrical connections shall be protected by enclosure cover.</p>		
<p>I. The hydraulic pressure gauge shall be located in the protective enclosure.</p>		
<p>J. The reservoir supplier shall provide all valve fittings (JIC connections) and plumb the return line from the valve to the filter.</p>		
<p>K. The cover shall protect from both road spray and pressure washer spray.</p>		
<p>L. The directional control valve must be easily accessible from all six (6) sides without the use of tools.</p>		
<p>M. Hose exit and entrance shall allow for components to be mounted adjacent to the enclosure.</p>		
<p>N. A 2" full flow brass ball valve shall be plumbed at the suction port of the tank and safety wired in the "open" position.</p>		
<p>O. A low oil/high temperature sending unit shall be mounted in the reservoir (wiring to the sensor on the reservoir shall be silicone sealed preventing water intrusion) and include a dash mounted OEM integrated and labeled warning light.</p>		
<p>FILTER:</p>		
<p>A. Hydraulic oil filter shall be mounted in the reservoir.</p>		
<p>B. Hydraulic filter shall be a 16-micron absolute and rated for no less than 60 gpm.</p>		

C. The filtering system shall incorporate an electric clogging indicator switch that shall illuminate a red dash mounted OEM integrated warning light labeled “Filter Fault” when the filter has become restricted.		
HYDRAULIC CONTROL VALVE:		
A. The hydraulic valve shall be of modular manifold design.		
B. Each hydraulic function shall require an individual manifold stacked together to form the manifold base.		
C. The manifold base shall consist of an inlet section with inlet porting, outlet porting, and load sense porting.		
D. There shall be a main system relief in the inlet section to protect the system from high pressure in case the pump compensator fails.		
E. The hydraulic control valves shall be pulse-width modulated and proportionally controlled.		
F. Each hydraulic valve segment may be individually mounted to the manifold base assembly and be serviceable without removing any hydraulic hoses or any other hydraulic valve segments.		
G. All segments shall have heavy-duty continuous duty coils. Connectors shall have LED diagnostic indicators.		
H. All coils shall operate at 12 VDC and require a maximum of 1,400 mille-amps.		
I. Each segment shall be equipped with a manual override.		
J. The valves shall be arranged as follows from left to right: <ul style="list-style-type: none"> • Inlet (5,000 psi) • Hoist.....4-way (capable of 5,000 psi) • Jib.....4-way (capable of 5,000 psi) • Pressure Reducing Section • Plow Lift w/Power Balance and Zero Leak Holding, 4-way (2,000 psi) • Plow Angle.....4-way, 2,000 psi • Conveyor.....3-way 2,000 psi • Spinner.....2-way 2,000 psi 		
K. A laminated schematic of all hydraulic valves and all electric circuits shall be attached to the inside of the valve enclosure cover.		
CONTROL:		
A. The control center must be an integral center for controlling all plow functions and all automated salt controls.		
B. The center must have changeable nomenclature and be fully backlit with solid state LED’s.		
C. The unit must be ground speed oriented and OEM incorporated (splicing connections shall not be acceptable) valve control connection, and main power OEM incorporated connection.		
D. Three (3) solid-state warning lights illuminated in red for: oil level, high temp, and filter fault shall be OEM incorporated and installed into dash.		
E. The center must also be supplied with color-coded wiring throughout.		
HYDRAULIC LINES AND PLUMBING:		
A. All hydraulic lines and plumbing shall be of sufficient capacity as not to create heat or turbulence within hydraulic system.		

B. Suction line between reservoir and pump shall be a minimum of 1½" i.d. with a minimum SAE 100-R4 rating and shall be secured on both ends via heavy-duty banding straps.		
C. All pressure hoses, including signal sense to pump shall have swivel fittings on both ends and have a minimum SAE 100-R2 rating.		
D. All hydraulic hoses shall be installed with the appropriate fittings, where necessary to alleviate sharp hose angles.		
E. Return lines and case drain shall have minimum SAE 100-R1 rating.		
F. Hydraulic lines shall be routed to minimize interference with equipment and chassis components requiring periodic servicing.		
G. Support brackets shall be provided where appropriate to protect lines from damage by abrasion, cutting or impact.		
H. Hoses shall not be routed near exhaust manifolds pipes, bolts, sharp edges, and exhaust system to prevent wear, fatigue, or fire.		
I. Pipe fittings shall not be acceptable in any high-pressure line.		
J. Maximum distance between support clamps on all hydraulic lines shall be 12". Plastic ties shall not be acceptable.		
K. Hydraulic hose abrasion protection shall be used, a sleeve or coil wrap, where needed. Plastic wire loom shall not be acceptable.		
PLOW COUNTERBALANCE VALVE FEATURE:		
A. The counterbalance valve shall divert some of the plows weight off of the blade and onto the front of the truck by applying a percentage of hydraulic pressure to the plow hoist.		
B. The valve shall work by supplying pressure to the lift cylinder to partially lift the plow. <ul style="list-style-type: none"> • The counter balance valve lift pressure shall be capable of manual adjustment in the field. • Oil flowing in and out of the lift port shall be restricted with an orifice to control the speed of operation. • The counter balance on and off functionality shall be controlled by electrical solenoids and a latched switch. 		
C. A latched “Plow Valve” switch shall be incorporated with the chassis multiplexed switch panel and shall be incorporated within the counter balance electrical circuit: <ul style="list-style-type: none"> • Shall be back-lit and labeled: Plow Valve. • Shall have a green “on” indicator light. • Must be depressed to operate. 		
D. The Plow Counter Balance feature system shall also include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplexed interfaced. • All system functional features shall be controlled by programmable ladder logic. • An open circuit failure within the plow counter balance valve feature wiring layout shall flash the green on indicator in the Plow Valve latched switch and render the plow counter balance valve function inoperative. 		

JOYSTICKS FUNCTIONS:		
A. The joystick control center (pedestal mount) shall be an integral center for controlling all hydraulic functions.		
B. The unit shall be supplied with separate easy to service valve control connection and main power connection.		
C. The control center (pedestal mount) shall include the following joystick controls: <ul style="list-style-type: none"> • Two (2) tethered joysticks for hook lift functions (one for lift and one for slide). • One (1) joystick for front plow functions (up/down/left/right). 		
SPREADER CONTROL CONSOLE:		
A. The electronic spreader control shall be designed for precise open loop control of granular material.		
B. The spreader control shall regulate the conveyer and spinner speeds.		
C. There shall be two (2) individual detent knobs providing proportional control from closed to fully open on the control valve of the conveyer and spinner.		
D. Front face panel shall have blast mode.		
E. The unit must be protected from reverse polarity as well as over-voltage protected.		
F. The unit must provide operational modes for manual or open loop (ground speed only).		
G. The spreader control shall operate in either a manual or automatic mode and function with a manual or electronic speedometer.		
H. All speed rates shall be programmed externally but coded to prevent unauthorized adjustments.		
SPREADER CONTROL SYSTEM:		
A. The spreader control system shall be an open loop automatic ground speed oriented with manual control capability.		
B. The spreader shall function in the automatic mode directly relating vehicle speed to a variable preset amount of material so that regardless of the vehicle forward or reverse speed the preset pounds of material per linear mile shall not vary.		
C. The speed sensor shall be an inline frequency type.		
D. The electric control panel shall be capable of interpreting electronic speedometer signals; either proximity type, AC type or Hall Effect type.		
E. The blast mode shall function in the manual or auto mode.		
F. The system shall return to the manual or auto preset rate upon deactivation of the blast mode.		
G. The blast mode shall only affect the conveyer speed. The spinner-spread pattern shall not change in the blast mode.		
SPREAD CONTROL PANEL & HARNESS:		
A. The control panel shall be self-contained and sized for pedestal mounting (between driver and passenger seat).		
B. All switches shall be back-lit illuminated, permanently labeled, color-coded, and located in the panel for the safest possible operation.		

C. The spreader control shall include a minimum nine (9) position dial control for conveyer, a minimum nine (9) position dial for control spinner, blast button, and spreader auto/manual and on/off.		
D. The control shall contain adjustments for minimum and maximum of each conveyer and spinner circuit and complete PWM frequency tuning.		
E. The spreader circuit shall have a common connection.		
F. The spreader control shall operate in either a manual or automatic mode and function with a manual or electronic speedometer.		
G. All speed rates shall be programmed externally but coded to prevent unauthorized adjustments.		
H. The spreader blast function shall be externally adjustable from 0-10 seconds after the button is released (set for 10 seconds).		
I. All control circuits shall be fused and shall be suppressed.		
J. The wiring harnesses must be tested before installation.		
K. The wire harnesses shall be resistant to oil and abrasion.		
ANNUNCIATOR PANEL:		
A. An annunciator panel shall be provided in the dash switch cluster.		
B. The panel shall have the following annunciators: <ul style="list-style-type: none"> • Oil Level -shall light when oil level in reservoir drops to an unsafe level. • Filter Fault-shall light when the hydraulic filter is clogged. 		
C. Each annunciator incorporated with the chassis multiplexed switch panel shall include the following features: <ul style="list-style-type: none"> • Shall be Red in color when illuminated. • Shall be back-lit labeled. • Shall illuminate steady when in annunciated. 		
MANUALS:		
A. Two (2) of each of the following manuals shall be supplied at time of delivery for each unit ordered: <ul style="list-style-type: none"> • Operation, Maintenance, Parts. 		

**SPECIFICATIONS: PWS-2014
PRE-WET SYSTEM**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. The melting agent shall be delivered to the spray bar by means of a ½" gear pump driven by a hydraulic motor sized to give proper pump rpm's for the hydraulic flow capability of the conveyor circuit of the truck on which the pre-wetting system shall be mounted.		
HYDRAULIC SERIES OPEN LOOP VB:		
A. The series open loop hydraulic liquid dispensing system shall be designed for a linear application rate of deicing solution directly on the granular material spread by the V-box type spreader.		
B. Calibration of the system shall be accomplished through a manually adjustable needle valve.		
C. The system shall have a 12-volt on/off cartridge (incorporating a manual override), which is part of a specifically designed modular valve.		
D. The system shall be designed to be installed into the vehicles hydraulic system by use of the auger exhaust oil flow (series loop) this allows for the ground speed orientation provided that the auger is ground speed controlled.		
E. The system shall be compatible with a variety of deicing solutions including, but not limited to the following: sodium chloride, calcium chloride, magnesium chloride, potassium acetate, and CMA.		
F. The system shall come complete with a liquid spray pump, sprayer tank/mounting straps, discharge nozzles, plumbing, and hardware.		
G. The valve, pump, and motor shall be mounted in a stainless steel enclosure.		
H. The lid of the enclosure shall be held on by rubber straps and have a handle on it.		
LIQUID PUMP:		
A. Pump shall be constructed of a bronze corrosion resistant casting with bronze gears.		

B. Pump shall have ½" npt ports with self-lubricating carbon bearing, and shall be capable of producing 11 gpm @ 1800 rpm.		
C. Pump and motor shall be connected with one-piece flex coupling.		
D. Coupling shall be protected with stainless steel guard/flow meter mount, and entire assembly shall be attached to a stainless steel plate.		
LIQUID TANKS:		
A. Two (2) 150-gallon polyethylene rotationally molded tanks.		
B. Tanks shall be UV protected.		
C. Minimum specific gravity rating of 1.9 and weight of approximately 105 lbs.		
D. Tanks shall be mounted on each side of the V-box type spreader.		
E. Tanks shall include a molded in type enclosure (H 14 x W 8.5 x D 4.5) with a polyethylene removable cover for the following: <ul style="list-style-type: none"> • Pump. • Electrical components. • Three (3) molded-in internal baffles. • 5" vented spin-on lid with a closed cell neoprene foam gasket. • 1½" quick fill port with male cam lock and dust cap. • ¾" suction port. • Four (4) stainless steel mounting straps each. • ¾" bypass port. • In tank level sensor. 		
F. The tank level sensor shall include the following features: <ul style="list-style-type: none"> • All system wiring shall be multiplex interfaced. • All system functional features shall be controlled by programmable ladder logic. • Low level detection shall illuminate the dash mounted annunciator. • Low level detection shall be programmed to shut the pump off. 		
G. Tank dimensions: H 21.5 x W 19.5 x L 120.5.		
H. Tanks shall be equipped with a positive ventilation devise, which shall be splash proof.		
I. All tank ports shall have replaceable bulkhead adapters, not spin welds.		
J. The dual tank system shall use one (1) ½" hose to connect both tanks together for equalization and ease of filling.		
PLUMBING AND HARDWARE:		
A. System shall include one (1) ½" polypropylene quick fill port with shut-off ball valve and integral cam locks.		
B. The pump inlet shall have a ball valve and Y-strainer with serviceable screen filter cartridge.		
C. The bypass plumbing shall have a ¾" polypropylene bypass valve with adjustable pressure relief valve with pressure gauge.		
D. All hose shall be nylon reinforced PVC hose with a working pressure of not less than 200 psi with max temperature rating of 100°F.		
E. All fasteners shall be stainless steel.		
DISCHARGE NOZZLES:		
A. The system shall have two (2) spray nozzles to apply solution on material being		

conveyed to the spinner.		
B. The brass spray nozzle bodies shall offer a reliable and rugged mounting for the brass spray tips.		
C. The brass spray tips shall give a fan pattern to evenly disburse the chemical to the granular surface.		
D. The nozzle plumbing shall come with an in-line check valve to prevent the siphoning.		
E. A provision shall be integrated within the plumbing layout to facilitate flushing with fresh water.		
CAB CONTROLS:		
A. A latched “Pre-Wet System Control” switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be back-lit labeled: Pre-Wet. • Shall have a green “On” indicator light. • Must be depressed to operate. • Shall be disabled by low liquid level detection and flash with this occurrence. 		
B. A single “Pre-Wet Liquid Level” annunciator shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be red in color when illuminated. • Shall be back-lit labeled: Liquid Level. • Shall illuminate steady when the pre-wet reservoir float level indicates low liquid. 		
C. The application of the liquid melting agent shall be proportionate to the discharge of granular material from the conveyor of the spreader.		
D. The application of liquid melting agents shall be controlled by a switch mounted in the chassis multiplex switch panel. The switch wiring shall be multiplex incorporated and operate an electric solenoid valve to divert return hydraulic flow through the liquid pre-wetting system.		
E. The level of the liquid melting agent shall be monitored by an internally mounted float level sensor. The wiring shall be multiplex incorporated with the “Liquid Level” annunciator dash mounted in the chassis multiplex switch panel. Low level detection shall be programed to automatically turn the liquid pump off.		
F. The application of liquid melting agent shall be adjustable by means of a brass needle valve with a numerical and color coded scale that shall allow the easy selection of previously calibrated application rates.		
G. A pressure gauge that monitors the pressure in the liquid melting agent line leading to the spray bar shall be installed to allow calibration of the system. NOTE: The system shall be delivered pre-calibrated.		
BOTTOM FILL AND VENTING:		
A. A quick connection of a 1" female brass cam lock fitting from the bulk storage dispensing system shall be supplied.		
B. A 1" male brass or poly cam lock fitting and 1" flexible hose pvc hose with braided nylon reinforcement leading to each of the one hundred fifty (150) gallon pre-wetting tanks that shall allow for quick connection of a fill hose to fill the		

truck mounted tanks.		
C. Each tank shall be equipped with a 1" vent with a liquid trap to prevent substantial loss of liquid caused by sloshing when truck is moving.		
D. A brass or poly "T" shall be provided to direct the liquid to both tanks.		
E. Poly, brass and stainless steel 1" valves shall be supplied to direct the flow of liquid.		
FILTER:		
A. Corrosion resistant, in-line replaceable element filter shall be provided to protect the system from particles and/or abrasives that may cause damage to the pump or plug the spray nozzles.		
B. The filter shall be located near the protective enclosure in a location to allow easy access.		
MISCELLANEOUS:		
A. Each spray system shall be supplied with one (1) of each of the following manuals: Illustration, Operating, Parts.		
B. Each system shall be supplied with all hoses, fittings, hardware, and components required for the operational installation of the spreader.		
INSTALLATION:		
A. The successful vendor shall be responsible for the installation of the V-box hopper spreader, material transport system (hook lift), snow plow hitch, snow plow, central hydraulic system, pre-wetting system and safety equipment.		
B. All installations shall conform to industrial standards.		
C. All units shall be delivered identical to the approved pilot model.		

**SPECIFICATIONS: LBS-2014
LIGHT BAR STANCHION**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

LIGHT BAR STANCHION:	COMPLY	
	YES	NO
A. Two (2) rotor light stanchion mounting bracket shall be fabricated as follows: <ul style="list-style-type: none"> • Bracket base shall be a minimum of 6" x ¼" rolled steel plate cold pressed to conform to the outside of the chassis frame in an inverted “L” shape, the base shall have two (2) 21/32" holes drilled in the vertical portion at evenly space intervals to match exiting chassis manufacturers holes. • The bracket upright shall be a minimum of 7" x 4" x ¼" rolled steel plate welded vertically and centered to the bracket base, the upright shall have three (3) 17/32" holes drilled in an evenly spaced triangular pattern to facilitate stanchion mounting. 		
B. The rotor light stanchion mounting bracket assembly shall be cleaned, primed and shall have a black powder coat finish.		
C. Each rotor light stanchion base shall be mounted to the chassis frame through existing chassis manufacturer holes between the rear of the cab and the front of the material transport system (hook lift), using two (2) 5/8" grade 8 bolts, two (2) steel flat washers, and two (2) grade 8 nylon locking nuts.		
D. The rotor light stanchion structure shall be weld fabricated as follows: <ul style="list-style-type: none"> • Two (2) vertical upright posts shall be a minimum of 4" x 2" 10-gauge roll formed stainless steel C-channel set vertically (overall rotor light assembly shall be 1" higher than the cab roof). • Two (2) minimum of 3" x 1½" 10-gauge roll formed stainless steel C-channel cross braces shall be angularly weld mounted from left to right between the upright posts. 		
E. A minimum of a 2" x 3/16" capped stainless steel tube crossbar shall be weld mounted and gusseted with a minimum of 3" x 1½" 10-gauge roll formed stainless steel C-channel weld mounted between crossbar and channel uprights. The		

crossbar shall be approximately 9½' wide but shall not be wider than the exterior mirrors.		
F. The crossbar shall have a minimum of 3/16" round stainless steel rotor light mounting plates at each end. The diameter of each plate shall be at least ¼" larger than the diameter of the rotor light base. The plates shall be weld mounted horizontally at the outer most edge without exceeding the width of the crossbar.		
G. Two (2) 12" long sections of ½" o.d. stainless steel tubing shall be weld mounted and evenly spaced along the crossbar and two (2) 12" long sections of ½" o.d. stainless steel tubing shall be weld mounted and evenly spaced along the left side vertical stanchion upright to facilitate rotator light wire routing.		
H. The rotor light stanchion shall be mounted to the rotor light stanchion mounting bracket using six (6) ½" grade 8 bolts, six (6) steel flat washers, and six (6) grade 8 nylon locking nuts.		
I. The rotor light stanchion assembly shall not interfere or have contact with the cab or the material transport system (hook lift), v-box hopper spreader, or any other bodies and shall provide adequate strength with a minimum amount of vibration transference to the rotor lights.		

**SPECIFICATIONS: RL-2014
ROTATOR LIGHTS**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

ROTATOR LIGHTS:	COMPLY	
	YES	NO
A. Class I Ecco Roto LED Beacon Model # 7660 rotator warning lights or approved equivalent.		
B. The Rotator Light system shall also include the following features: <ul style="list-style-type: none"> • All system wiring and switching shall be multiplex interfaced. • A latched Rotor Light switch shall be green back-lit and labeled Light Bar. • All system functional features shall be controlled by programmable ladder logic. • A circuit failure within the Rotator Light system layout shall flash the green on indicator in the Light Bar switch. 		
C. All wiring shall be type “SO” cord and sized to sufficiently handle current demands of all lighting.		
D. The harness wiring shall be securely mounted and routed to prevent damage, originate in the cab at the multiplex interface and terminate at each rotator light with a weatherproof socket connector. No other splicing or connections shall be acceptable.		

**SPECIFICATIONS: SPL-2014
SNOW PLOW LIGHTS**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. Snow plow lights shall be used to add normal head light operation from a higher position on the cab facilitating light projection clearance above the attached snow plow.		
B. Snow plow lights shall be Meyer Saber Light Model # 07223 or approved equivalent.		
C. Snow plow lights shall provide an alternate high/low beam light source when snow plow is attached.		
D. Mounting shall be shock-proof and vibration resistant.		
E. A three point, 2" x .250" aluminum bracket system shall be provided to accommodate high profile snow plows.		
F. Lights shall include halogen bulbs, wrap around park/turn lamps.		
G. A latched “Plow Light” switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features: <ul style="list-style-type: none"> • Shall be back-lit labeled: Plow Light. • Shall have a green “On” indicator light. • Must be depressed to operate. • While on, the OEM park, turn, high and low beam light switch operation shall operate the plow lights. • While on, the chassis headlights shall not operate. • Returning the switch to the off position shall return the chassis headlights back to normal operation. 		
H. Power supply for these additional lights shall be from the existing chassis high/low beam, park and turn signal circuits.		
I. Plow light housing shall be of polycarbonate material.		
J. All wiring shall be routed to prevent damage (no splices) and be multiplexed		

interfaced and be attached at firewall to a seven (7) terminal connection point for ease of hook up and troubleshooting.		
K. There shall be no splices (must have continuous feed from lights to firewall).		
L. Mounting shall be on truck fenders/hood.		
M. Original chassis high beam dash mounted indicator shall function when plow lights are in high beam mode.		

**SPECIFICATIONS: SPH-2014
SNOW PLOW HITCH**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. Hitch shall be engineered, designed, and built by an industry recognized manufacturer.		
B. The hitch shall be designed for severe service and shall be a bumper to frame mounting on all heavy-duty conventional rear-wheel drive trucks.		
C. Hitch shall be designed to provide a minimum amount of front overhang.		
D. The low profile hitch design shall allow the cab hood to tilt fully forward a sufficient and safe amount to allow for proper engine access.		
E. The heavy-duty front frame hitch shall be designed to transmit plowing forces directly to the truck frame side rails with custom built side plates to fit the trucks specified in this bid package.		
FEATURES:		
A. The side plates are custom fitted 5/8" minimum steel plate of proper length and construction for heavy-duty service.		
B. The custom fitted side plates shall provide adequate clearance for steering mechanism and spring suspensions.		
C. The front section shall consist of the lifting frame, push plate, reinforcements, braces, and mounting brackets.		
D. The lifting frame vertical square structural steel tubing shall be a minimum of 4" x 4" x 3/8" and top angle shall be 1/2" x 4" x 3" and gusseted for extra strength.		
E. Lift arm extension storage brackets shall be provided on the right side lifting frame vertical using a minimum of two (2) 4" x 4" x .38 approximately 2 1/2" long square structural steel tubing, pin provisions shall be made in the top storage bracket to secure the lift arm extension with the lift arm assembly 1" anodized steel pin and locking device.		
F. Ram support angle shall be a gusseted 1/2" x 4" x 6" angle with welded 1/2" thick		

steel ram connection ears and so designed to accept a front bumper constructed of 8" @ 13.75# channel.		
G. The lower push plate main member is 10" @ 25 lb/ft. channel, reinforced with a 3/8" x 3" x 3" angle.		
H. The plow connecting ears shall have three (3) equally spaced height attaching holes fabricated from (2) 3/4" bars capable of adjusting pin ground height to approximately 15", 18", and 21" center of mounting holes.		
I. Plow connection pins are 1 1/4" diameter-two (2) shall be supplied with chain retainers.		
J. Push centers shall match existing Authority snow plows with 21" center.		
K. The specified truck bumper shall be cut and attached to either side of hitch side plates and reinforced as required using custom made bolt-on plates for easy replacement. Welding shall not be acceptable.		
L. The top of the bumper and front of grille shall have a removable bustin type plate deck mounted, full width.		
M. The bumper shall have four (4) 5/16" holes drilled for placement of license plates on driver's side.		
N. The plow hoist cylinder shall be of premium grade and shall be a double acting ram of not less than 3" bore x 10" stroke with a 1.5" nitride piston rod.		
O. The cylinder shall be capable of 14,000 lbs. of thrust @ 2,000 psi and 16,000 lbs. of bursting pressure @ 2,000 psi.		
P. The plow hoist cylinder shall be secured to the lifting frame at the connection ears with a minimum of a 1" grade 8 bolt and nylock nut. The cylinder shall be attached to the lift beam at the connection ears with a minimum of a 1" anodized steel pin and locking clevis.		
FOLDING LIFT BEAM:		
A. The folding lift beam assembly consisting of two parts, an inner section or receiver and an outer section or extension arm.		
B. The inner section shall have two (2) pin ears of minimum 3/4" plate steel attached to the lifting frame using a minimum of 1" grade 8 bolts and nylock nuts facilitating a vertical flat fold when not in use. The inner section shall have a minimum of 1/2" steel horizontal top gusset plate angle to allow for hood tilting and fully welded to a minimum of a 4" x 4" x .38 structural square steel tube.		
C. The underside of the inner section shall have welded 1/2" plate steel plow hoist cylinder connection ears.		
D. The outer section shall be 3" x 3" x .38 structural square steel tube capped at one (1) end with a minimum of 3/4" steel plate extending outward and toward the truck. The outward extensions shall have one (1) banjo hole on each side providing attachment of two (2) plow lift chains.		
E. The outer section assembly shall slide in and out of the inner section receiver and be secured in the operating position with a minimum of a 1" anodized steel pin and locking clevis.		
F. The plow hitch shall be mounted as close to grille as possible.		
G. If frame length must be reduced, vendor shall remove portion of frame in such a way not to affect the integrity of frame strength.		
H. Tow hooks shall be mounted on hitch using original equipment from chassis		

manufacturer.		
PAINT:		
A. The hitch shall be painted with powder coated black paint.		

**SPECIFICATIONS: SP-2014
SNOW PLOW**

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

GENERAL:	COMPLY	
	YES	NO
A. The snow plow shall be an 11' x 42" power reversible “J” style type.		
B. The snow plow shall be new and of the latest design and be in current production at the time of the submission of bid.		
C. All standard and optional equipment shall be Original Equipment Manufacturers (OEM) items, when available. NO EXCEPTIONS		
D. Bidders must submit with their bid, detailed diagrams and technical specifications of their snow plow being bid. NO EXCEPTIONS		
MOLDBOARD:		
A. The moldboard shall be 42" high and 132" long formed in a “J” shaped blade. The radius shall be approximately 20" and the last 12" a minimum of a 6" radius.		
B. The moldboard shall be constructed with a minimum of 7-gauge steel paneled for additional strength.		
C. The top shall be reinforced at the top by a self-formed channel and the bottom with a one piece 4" x 4" x 3/8" structural angle.		
D. The cutting edge banking plate of 5/8" x 3" steel shall be welded and braced with a 1/2" x 2 1/2" gussets welded between each cutting edge bolt position.		
E. The edge shall be <u>flush</u> with the moldboard face to prevent snow build up on top of the cutting edge.		
F. A minimum of ten (10) full length vertical ribs shall reinforce the moldboard.		
G. The vertical rails shall be constructed of 1/2" x 3" formed steel continuously welded on both sides of edge to the moldboard sheet and secured at the top to the formed channel and to the structured angle at the bottom.		
H. Two (2) horizontal braces shall also reinforce the moldboard.		
I. The braces shall be constructed of 1/4" x 2" x 2" angle or 1/2" x 3" flat bar continuously welded on both sides to moldboard sheets.		

J. The lower rear cross angle shall be provided with a minimum of ten (10) brackets ¾" thick welded on 88" hinge point centers for attachment to the table assembly at five (5) points with a minimum of 1" (72,000 lbs.) tensile strength pins.		
CUTTING EDGE:		
A. The cutting edge shall be fabricated from abrasion resistant steel with a Brinell Hardness of 250 minimum and 325 maximum .		
B. There shall be two (2) each of 1" thick x 8" wide x 66" long cutting edges. NO EXCEPTIONS		
C. The cutting edges to be AASHO standard punched and be easily replaced.		
D. All mounting hardware shall be grade 8.		
TRIPPING MECHANISM:		
A. To protect the plow, truck and operator from impact damage, the plow shall include a spring controlled full moldboard hinged spring mechanism. A minimum of six (6) heavy-duty extension springs shall be attached between the table and the moldboard.		
B. The spring materials must be ASTM-A229 oil tempered ½" wire, 4½" O.D. x 24 active coils with the end hooks cold formed to 90° right angles to each other.		
C. The spring force at 30.5" shall be a minimum of 760 lbs. and allow 14" of stretch without deformation.		
D. The springs shall maintain the vertical stability of the moldboard while plowing and facilitate a controlled trip/return action when coming in contact with any solid object while plowing.		
E. The trip springs shall be designed to have adjustable spring tension.		
F. Each spring shall be able to be adjusted individually by a threaded "J" hook or equivalent.		
G. A mechanical telescopic tripping post assembly constructed of a minimum of 1¼" x 2" inside bar, ¾" x 2¼" outside bare and reinforced with ¼" x 2" bars.		
H. The tripping post assembly shall be independent of the springs and must prevent the top of the moldboard from contacting the road surface.		
I. Two (2) 1" diameter pins with a minimum tensile strength of 72,000 lbs. shall connect tripping post to the moldboard and table.		
TABLE:		
A. The table shall be a circular arc design and be constructed of a one piece solid 4" x 4" x ½" structural angle, a 4" x ¾" bar shall be fabricated to conform to the outside radius with eleven (11) notches 1¼" deep x 1⅛" wide at the bottom and 1½" wide at the outer edge and welded in a vertical position along the underside of the 4" x 4" x ½" structural angle radius.		
B. The notches shall be laser cut.		
C. Circular arc portion shall be welded at each end with an overlap to structural angles measuring 3½" x 3½" x ½" that continues the length of the semicircle and joins to the front square tube measuring 4" x 4" x ⅜".		
D. The joining of the semicircle to the front tube shall be reinforced on each side by 3½" x 3½" x ½" structural angle.		
E. The front of the table shall be provided with a minimum of ten (10) brackets ⅝" thick welded on 88" hinge point centers for attachment to the moldboard		

assembly at five (5) points with a minimum of 1" 72,000 lb. tensile strength pins.		
F. The front center of the table shall be designed for attachment to the "A" frame with a 1¾" diameter vertical pin with locked rotation to the A-frame and secured by a ⅜" roll pin.		
LIFT CHAIN:		
A. The lift chain assembly shall include a zinc plated 7/16" proof coil chain, repair link, two (2) ½" anchor shackles and a 7/16" grab hook clevis.		
B. There shall be two (2) tabs welded on the table for attachment of the lift chain.		
PUSH FRAME:		
A. The push frame shall be constructed of two (2) 4" @ 13.8 lb. ship channels with bracing and be in the form of an "A".		
B. The top and bottom of the push frame shall be ½" triangular shaped plate.		
C. Welded to the front of these triangular plates shall be a pair of ¾" x 4" steel brackets and between them a curved socket member shall be provided to relieve the pivot pin of thrust stress.		
D. The attachment pin at this point shall be a minimum of 1¾" diameter axle quality steel that shall engage with corresponding ears on the front tube of the semicircular frame.		
E. At the center of this box construction of plates and channels in the line of forward rotation shall be an assembly welded to form a continuous thrust beam.		
F. A latch part shall be incorporated which continues further to the rear and presses against a heavy duty latch spring measuring 5-7/16" o.d. x ¾" diameter spring wire with 9" of free travel.		
G. The spring shall be made of AISI 5160 hot rolled spring steel and shall be heat treated after cooling. Spring shall be square and ground.		
H. The latch shall seat against a circular plate welded to the rear cross channel.		
I. Lubrication fittings shall be provided to allow ease of movement of slide assembly, which telescopes on the tubular member.		
J. The two (2) rear channels of the push frame shall be provided with a heavy-duty 1" thick A36 material adjustable ear for attachment of the push frame to the travel hitch with 1¼" diameter bolt. Ear spacing shall be 21". NO EXCEPTIONS		
HYDRAULIC REVERSING CYLINDERS:		
A. The hydraulic reversing mechanism shall consist of two (2) hydraulic cylinders nitride piston rods and a minimum of 2½" diameter and 10" stroke.		
B. The hydraulic cylinder housing shall attach to the push frame and the hydraulic cylinder piston shall attach to the front table tube with 1" pins secured by ¼" roll pins.		
C. Hydraulic cylinders shall be positioned to unlatch the semicircle and angle the moldboard to the desired plowing position.		
D. The latching mechanism shall operate automatically and monitor the moldboard in any of eleven (11) positions from 35° right or left in 7° increments.		
E. High pressure hydraulic hose connections shall be made to each of the two (2) cylinders with long 90° JIC elbow female swivel crimp hose fittings and extend to the rear terminating in male and female brass quick disconnect couplings. This will allow the hoses to be connected during storage. All couplings shall have lanyard attached rubber cap/plug covers.		

F. During operation, the hoses shall connect to the corresponding connections on the Authority trucks.		
MUSHROOM:		
A. The skid shoe assemblies must be of the hand adjustable type, enclosed and fully lubricated with replaceable chilled cast iron shoes "Mushroom" shaped of 12" in diameter and 2" thick.		
B. The design shall include an anti-flip top.		
C. The shoe housing to be constructed of 3" square tubing x 12" long and the shoe post to be constructed of 2½" square tubing x 11" long.		
D. The adjustment shall be accomplished by a threaded 1¼" diameter screw operated by a hand crank with rotating knob, which shall be self- locking and shall operate without the use of any tools. The adjusting screw shall be fully enclosed.		
LEVEL-LIFT ASSEMBLY:		
A. The level-lift assembly shall provide an automatic, mechanically activated mechanical control, which will hold a raised plow moldboard an equal distance from the ground to the bottom of the cutting edge.		
B. The level-lift mechanism will hold an equal elevation regardless of height raised above the road surface and regardless of moldboard plowing angle.		
C. The moldboard plowing angle must be able to be changed to any desired position, maintaining equal elevation without first lowering plow, changing plowing angle and then re-lifting.		
PLOW MARKERS:		
A. The snow plow shall be equipped with two (2) 36" orange reinforced markers constructed of ¾" polymer reinforced with a ⅜" galvanized cable.		
B. Each plow marker shall be equipped with a crimped base 2-bolt mount installed at the upper outer most left and right corners of the moldboard and attached to a reinforced rib with bolts and nylock nuts.		
RUBBER BAFFLE:		
A. The snow plow shall be equipped with a ½" thick x 12" wide x 11' long rubber belting baffle.		
B. The baffle shall be bolted to top of moldboard with a ¼" x 2" x 11' steel keeper bar.		
MOLDBOARD SHOE:		
A. The snow plow shall be equipped with two (2) moldboard shoes.		
B. The moldboard shoe shall be constructed of cast steel and have a bearing wear surface of at least 40 square inches each.		
C. The moldboard shoes shall be attached directly behind the cutting edge and be designed to wear evenly with an 8" cutting edge.		
D. The moldboard shoes shall have two (2) 11/16" diameter bolt holes spaced on 12" centers for mounting to the snow plow.		
CURB BUMPER:		
A. Two (2) 2½" x 2½" x 8" cold rolled steel curb bumpers shall be continuous weld attached vertically to the lower left and right outside edge of the moldboard lower angle.		
B. The bottom edge of the curb bumper shall be positioned at a height equal to the moldboard shoe.		

C. The curb bumper shall not interfere with the plow blade attachment area.		
WELDING:		
A. All welds shall be continuous.		
B. All welding performed in the manufacturing of the snow plow shall be done by AWS certified welders.		
C. Proof of AWS certification shall be presented upon request.		
PAINT:		
A. All steel parts shall have the mill scale and oil removed by means of a high pressure chemical cleaner prior to painting.		
B. These surfaces shall be primed with a zinc rich, rust preventive primer.		
C. The finish paint shall be a high quality, high solid, polyurethane type enamel.		
D. All painting shall be done in conjunction with good commercial practices.		
E. All aluminum and stainless steel shall be left in its natural color:		
F. Paint color shall be Omaha Orange approved equivalent powder coated paint.		

**SPECIFICATIONS: 7PTC
7-POLE ROUND PIN TRAILER CONNECTORS ON TRUCKS AND TRAILERS**

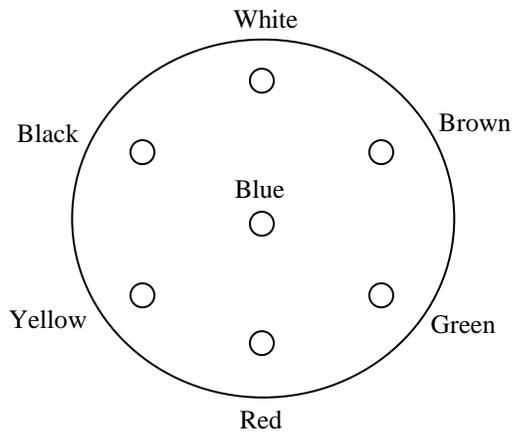
CONNECTOR
MARKING COLOR

- WHITE
- BLACK
- BROWN
- YELLOW
- GREEN
- RED
- BLUE

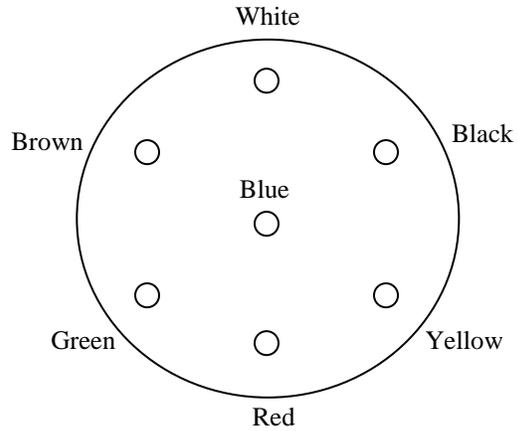
APPLICATION

GROUND
TAIL LIGHT
TAIL LIGHT
LEFT TURN SIGNAL
RIGHT TURN SIGNAL
ELECTRIC BRAKE
12-VOLT BATTERY-WITH 30-AMP AUTOMATIC
BIMETAL THERMAL RESET CIRCUIT PROTECTION.

SOCKET MARKINGS



PLUG MARKINGS



**SPECIFICATIONS: 7PTC-ABS
7-POLE ROUND PIN TRAILER CONNECTORS ON TRUCKS AND TRAILERS**

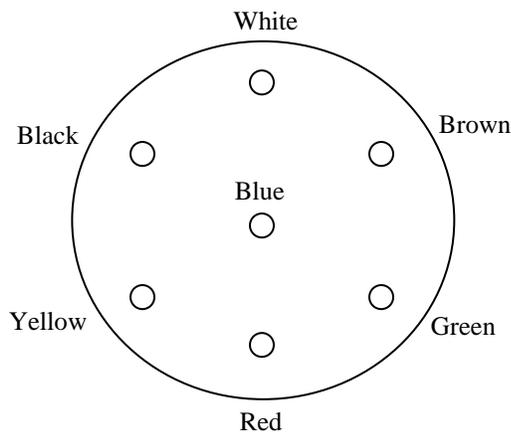
CONNECTOR
MARKING COLOR

- WHITE
- BLACK
- BROWN
- YELLOW
- GREEN
- RED
- BLUE

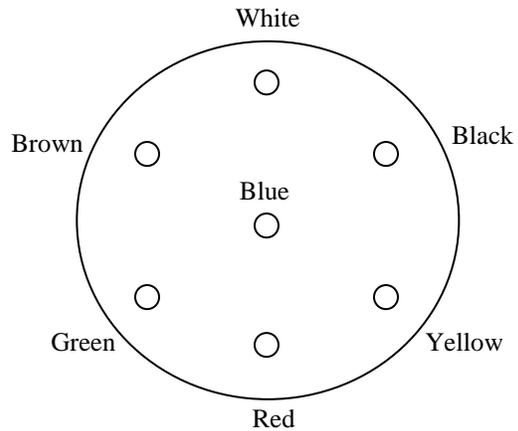
APPLICATION

GROUND
 TAIL LIGHT
 TAIL LIGHT
 LEFT TURN SIGNAL
 RIGHT TURN SIGNAL
 ABS BRAKE
 12-VOLT BATTERY- WITH 30-AMP AUTOMATIC
 BIMETAL THERMAL RESET CIRCUIT PROTECTION.
 (Activated in “Key On” Position)

SOCKET MARKINGS



PLUG MARKINGS



SPECIFICATIONS: 13PRC
13PROBC 13-POLE ROUND PIN ROLL OFF BODY TO CAB CONNECTOR

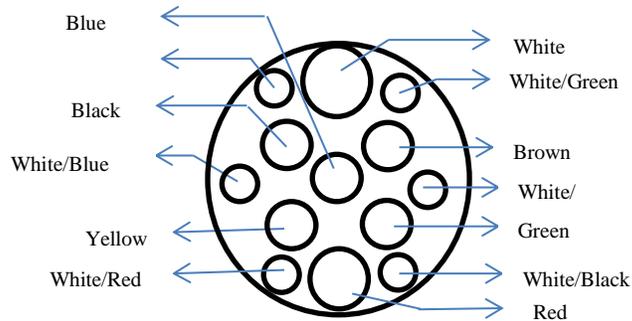
CONNECTOR MARKING
COLOR

- WHITE
- BLACK
- BROWN
- YELLOW
- GREEN
- RED
- BLUE
- WHITE/ORANGE
- WHITE/BLACK
- WHITE/RED
- WHITE/GREEN
- WHITE/BLUE
- WHITE/YELLOW

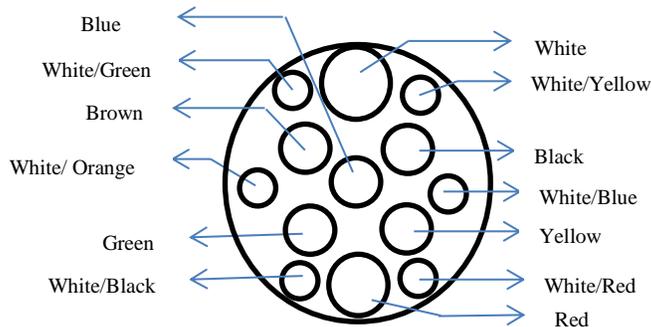
APPLICATION

- GROUND
- PREWET (On/Off)
- MARKER LIGHT
- N/A
- N/A
- N/A
- N/A
- PREWET (Low Level Sensor)
- SPREADER LIGHT
- Rear Amber Warning (Output 1)
- Rear Amber Warning (Output 2)
- N/A
- N/A

SOCKET MARKINGS



PLUG MARKINGS



FAILURE TO COMPLETE ALL AREAS MAY RESULT IN REJECTION OF BID

UNIT INFORMATION FORM

CHASSIS:

YEAR: _____ MAKE: _____ MODEL: _____

ENGINE MAKE: _____

MODEL: _____

CID: _____ HP: _____ @ _____ RPM

FUEL TANK CAPACITY: _____ GALLONS

ALTERNATOR MAKE: _____ MODEL: _____
AMPS: _____

BATTERY VOLTS/AMPS: _____
C.C.A. @ O° F: _____

TRANSMISSION MAKE: _____

MODEL: _____

BACK-UP ALARM MAKE: _____

MODEL: _____

TIRES SIZES:
FRONT: _____

REAR: _____

SERVICING
AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

MATERIAL TRANSPORT SYSTEM (HOOK LIFT):

YEAR: _____ MAKE: _____ MODEL: _____

LIFTING CAPACITY: _____ LBS.

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

V-BOX HOPPER SPREADER:

DESCRIPTION/SIZE: _____

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

SERVICING
AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

DUMP BODY:

DESCRIPTION/SIZE: _____

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

SERVICING
AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

STAKE BODY:

DESCRIPTION/SIZE: _____

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

SERVICING
AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

HYDRAULIC SYSTEM:

DESIGNER: _____

HYDRAULIC PUMP MAKE: _____ MODEL: _____

HYDRAULIC VALVES: MAKE: _____

MODEL: _____

SPREADER CONTROL-ORIGINAL MANUFACTURERS NAME:

MAKE: _____ MODEL: _____

INSTALLER: _____

SERVICING
AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____
Name & Title

PRE-WET SYSTEM:

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

SERVICING
AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____
Name & Title

SNOW PLOW:

MAKE: _____ MODEL: _____

MOLDBOARD WIDTH: _____ INCHES

MOLDBOARD HEIGHT: _____ INCHES

INSTALLER: _____

SERVICING
AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

SNOW PLOW LIGHTS:

DESCRIPTION: _____

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

LOCATED AT: _____

SERVICING
AGENCY: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

ROTATOR LIGHTS:

DESCRIPTION: _____

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

LOCATED AT: _____

SERVICING
AGENCY: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

NEW JERSEY TURNPIKE AUTHORITY

P.O. Box 5042
581 Main Street
Woodbridge, New Jersey 07095
Tel. – 732-750-5300
Fax – 732-750-5399

INSTRUCTIONS TO BIDDERS - 2011

THIS DOCUMENT HAS BEEN RECENTLY REVISED

**PLEASE READ THE INSTRUCTIONS CAREFULLY
BEFORE SUBMITTING YOUR BID**

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**INSTRUCTIONS TO BIDDERS FOR SUBMISSION OF BIDS
STANDARD TERMS AND CONDITIONS**

The following Standard Terms and Conditions apply to all contracts, purchase agreements or purchase orders with the New Jersey Turnpike Authority unless specifically stated otherwise in the Invitation to Bid/Request for Bids (“RFB”). Bidders are hereby notified that all Terms and Conditions contained herein will become a part of any contract(s) awarded or order(s) placed as a result of any RFB fully and to the same extent as if copied at length therein. In the case of a conflict between these general Terms and Conditions and the specific provisions of the RFB, the RFB shall control. Failure to comply with each and every one of the below Terms and Conditions, as well as the specific requirements set forth in the RFB, may be grounds for rejection of the bid.

I. DEFINITIONS

The following definitions will be a part of any RFB issued by the New Jersey Turnpike Authority, and any contract(s) awarded or order(s) placed as a result of such documents.

- a. “Authority” shall mean the New Jersey Turnpike Authority.
- b. “Bidder” shall mean any potential vendor submitting a response to an RFB issued by the Authority.
- c. “Contract” shall mean the RFB (including these Standard Terms and Conditions), the response thereto submitted by the bidder, and the Authority’s Notice of Award.
- d. “Director” shall mean the Director of Procurement and Materials Management Department of the Authority.
- e. “Vendor” shall mean the successful bidder who is awarded the contract at issue.

II. STATE LAWS REQUIRING MANDATORY COMPLIANCE BY ALL BIDDERS

A. DIVISION OF REVENUE REGISTRATION-Pursuant to the terms of N.J.S.A. 52:32-44, bidders are required to submit to the Authority proof of valid business registration with the New Jersey Division of Revenue in the Department of Treasury, prior to entering into a contract with the Authority. No contract shall be entered into by the Authority unless the bidder first provides proof of valid business registration. In addition, bidders are required to provide to the Authority proof of valid business registration with the Division of Revenue for any and all subcontractors that will be used to provide goods or services under the contract. A copy of the bidder’s and any subcontractor’s valid Certificate of Registration should be included with the bid submission and must be in effect prior to the contract award.

All questions regarding this requirement should be referred to the Division of Revenue hotline at (609)-292-9292 or/online: <http://www.nj.gov/treasury/revenue/forms/njreg.pdf>

- B. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE-** Bidders must agree not to discriminate in employment and are required to comply with all applicable anti-discrimination laws, including those contained within N.J.S.A. 10:2-1 through 10:2-4, N.J.S.A. 10:5-1, et seq., and N.J.S.A. 10:5-31, et seq., P.L. 1975, c. 127. The mandatory language required by P.L. 1975, c. 127, as set forth in Exhibit A, shall be deemed a material term of any and all contracts, purchase agreements, and purchase orders entered into by the Authority. Bidders must acknowledge their agreement with the terms set forth in Exhibit A by signing where indicated and returning the exhibit with the bid. In addition, Bidders must affirmatively demonstrate compliance with P.L. 1975, c. 127 by submitting with the bid the completed Affirmative Action Information Sheet, set forth in Exhibit B, and any required attachments.
- C. STOCKHOLDER/PARTNERSHIP DISCLOSURE FORM-**Bidders who are corporations or partnerships must comply with P.L. 1977, c. 33, N.J.S.A. 52:25-24.2, by completing the Stockholder/Partnership Disclosure Form, set forth in Exhibit C, and submitting it with the bid. Failure to do so shall result in rejection of the bid.
- D. POLITICAL CONTRIBUTIONS COMPLIANCE-**To be eligible for an award, bidders must comply with the requirements of P.L. 2005, c. 51, N.J. S.A. 19:44A-20.13 et seq., and with the requirements of Executive Order 117 (Corzine). No award may be made to a bidder who has not complied with these laws regarding political contributions. A more detailed explanation of these requirements is set forth in Exhibit D.

1. ADDITIONAL DISCLOSURE REQUIREMENTS OF P.L. 2005, C. 271

Bidders are advised of their responsibility to file annual disclosure statements on political contributions with the New Jersey Election Law Enforcement Commission (ELEC), pursuant to P.L. 2005, c. 271, section 3, if they receive contracts in excess of \$50,000 from any public entity in a calendar year. It is the bidder's responsibility to determine if filing is necessary. Failure to so file can result in the imposition of financial penalties by ELEC. Bidders must include with their bid a statement acknowledging this requirement, on the form set forth in Exhibit E.

Additional information about this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us.

- E. PREVAILING WAGE ACT-**The New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.26 et seq., is hereby made a part of every contract entered into on behalf of the Authority, except those contracts which are not within the contemplation of the Act. The bidder's signature on its bid is its guarantee that neither it nor any subcontractors it might employ to perform the work covered by the contract has been suspended or debarred by the New Jersey Department of Labor and Workforce Development for violation of the provisions of the Prevailing Wage Act and/or the Public Works Contractor Registration Act. The bidder's signature on its bid is its guarantee that both it and any subcontractors it might employ to perform the work covered

by the contract will comply with the provisions of the Prevailing Wage and Public Works Contractor Registration Acts, where required.

F. PUBLIC WORKS CONTRACTOR REGISTRATION ACT-The New Jersey Public Works Contractor Registration Act requires all contractors, subcontractors and lower tier subcontractors who bid on or engage in any contract for “public work,” as defined in N.J.S.A. 34:11-56.26, to be first registered with the Department of Labor and Workforce Development. No vendor or subcontractor, including lower tier subcontractors, shall engage in the performance of any public work subject to the contract unless they are registered pursuant to this Act. Bidders shall submit with their bid a valid copy of their Public Works Contractor Registration Certificate and valid copies of the registration certificates for all subcontractors listed in the bid. If an expired Certificate is included with the bid, a copy of a renewal application submitted and filed with the Department of Labor and Workforce Development must be included with the bid submission. The certificate(s), or certified facsimile(s) of the certificate, shall be maintained at the worksite and shall be made readily available for inspection at any time.

Any questions regarding this requirement should be directed to the Division of Wage and Hour Compliance, Department of Labor and Workforce Development at (609) 292-9464.

G. FOREIGN CORPORATION-If applicable, the bidder shall register as a “Foreign Corporation” with the Secretary of the State of New Jersey, designating a resident agent for the service of process. Written proof of such registration must be included with the bid submission.

H. SMALL BUSINESS ENTERPRISE SET-ASIDE CONTRACT FOR GOODS AND SERVICES
It is the policy of the Authority that small business enterprises (“SBE”) as determined and defined by the State of New Jersey, Division of Minority and Women Business Development (“Division”) in the Department of the Treasury in N.J.A.C. 12A:10A-1 et seq. have the opportunity to compete for and participate in the performance of contracts and subcontracts for construction and for the purchase of goods and services. The Authority further requires that its contractors / vendors agree to take all necessary and responsible steps, in accordance with N.J.A.C. 52:32-17 et seq. and N.J.A.C. 17:14-1.1 to ensure that SBE’s have these opportunities, as an aid in meeting the commitment of its SBE Programs. When applicable the Authority will designate the contract as a SBE Set-Aside Contract. In such cases requests for bid proposals shall be confined to businesses registered with the Division as an SBE in either Category 1,2,or 3. Bid proposals from businesses not designated as an SBE, when applicable, will be rejected.

I. CODE OF ETHICS: Bidders are advised that the Authority has adopted the New Jersey Uniform Code of Ethics, a copy of which can be viewed by going to the following web site: <http://nj.gov/ethics/docs/ethics/uniformcode.pdf> By submitting a bid, bidders agree to be subject to the intent and purpose of said Code and to the requirements of the New Jersey State Ethics Commission.

- J. VENDOR LOCATION DISCLOSURE**-Pursuant to N.J.S.A. 52:34-13.2, every contract entered into by the Authority primarily for the performance of services shall specify that all services performed under the contract or performed under any subcontract awarded under the contract shall be performed within the United States. Executive Order 129 (McGreevey) requires all bidders to disclose the origin and location of the performance of their services, including any subcontracted services that are the subject matter of the contract. Bidders must include with their bid a completed Vendor Disclosure Form, attached hereto as Exhibit G.
- K. SET-OFF FOR OUTSTANDING TAX LIABILITY**-Bidders are advised that pursuant to P.L. 1995, c. 159, effective January 1, 1996, and notwithstanding any provision of the law to the contrary, the State of New Jersey has the right to set-off any tax indebtedness from payments made under contracts with the Authority. The State's rights are explained in more detail in Exhibit H, attached. Bidders must include with their bid a signed copy of Exhibit H acknowledging that they have received notice of the State's right of set-off.
- L. MSDS REQUIREMENTS**-Any vendor, supplier, or subcontractor who provides the Authority materials in the form of a single chemical substance or a mixture containing two or more chemical substances, or who delivers to or stores such materials at an Authority facility, must provide the Authority with a clear, legible copy of the manufacturer's most recent Material Safety Data Sheet (MSDS) for each and every one of those materials, pursuant to N.J.A.C. 8:59-2.2(i).
- M. LABELING REQUIREMENTS**-Any vendor, supplier or subcontractor who provides the Authority materials which fall under the purview of the New Jersey Worker and Community Right-to-Know-Act, N.J.S.A. 34:5A-1 et seq., or who stores any such materials at an Authority facility, shall ensure that each and every container of those materials is labeled in accordance with the Act and its regulations.
- N. VOC REQUIREMENTS**-Any architectural coating, as defined by N.J.A.C. 7:27-23.2, provided to the Authority for its use or used and applied by any vendor or subcontractor in conjunction with an Authority project must comply with each and every requirement of the New Jersey Department of Environmental Protection's Volatile Organic Compounds in Consumer Products (VCC) regulations, N.J.A.C. 7:27-23.1 et seq.
- O. COMPLIANCE WITH STATE AND FEDERAL LAWS**-The vendor must comply with all local, state and federal laws, rules and regulations applicable to the contract at issue and to the work to be done thereunder.
- P. SAFETY & HEALTH REQUIREMENTS**-The goods, services and/or equipment provided through the contract at issue shall be so designed and installed to meet all applicable federal and state safety and health regulations and national consensus standards including, but not limited to US DOL-OSHA, NJ LWD-PEOSHA, NFPA and ANSI standards
- Q. CHOICE OF LAW**-It is agreed and understood that any contract entered into and/or purchase orders placed as a result of any RFB issued by the Authority shall be governed and construed and the

rights and obligations of the parties thereto shall be determined in accordance with the laws of the STATE OF NEW JERSEY.

III. BID PREPARATION

A. BID SUBMISSION-Unless the Authority has made provision for bids to be submitted online, bids must be submitted in paper format, in ink or typewritten. If space is provided on the RFB for bid details, bids must be submitted using that document. Paper bids must be signed and returned in a sealed envelope addressed to the New Jersey Turnpike Authority with the bid opening date, time and bid identification on the outside of the envelope. Bidders shall state on such form a unit price for each item, and extend such unit price by multiplying same by the indicated quantities on the bids solicited by the Authority.

All bids must be received in the Authority's Procurement and Materials Management Department on or before the date and time specified on the RFB. Bids received after the time indicated shall be rejected and returned to the bidder(s) unopened after being processed in accordance with established Authority procedures. The Authority will not be responsible for late postal or delivery service.

B. CORRECTIONS-Any correction of an entry made on the bid should be initialed by a duly authorized representative of the bidder. If the total price is found to be incorrectly computed, discrepancies will be corrected by the Authority on the basis of the written unit prices, and determination of the low bidder will be made on the basis of the correct total price so determined.

C. BID PRICES-All prices quoted shall be firm and not subject to increase during the term of the contract, unless otherwise specified in the RFB. Prices shall include transportation and delivery to the site designated by the Authority in the RFB. All delivery charges shall be borne by the vendor.

D. PAYMENT TERMS-The bidder shall state the terms, if any, requested for the Authority to make payment within a certain period of time after receipt of the bidder's invoice.

E. ALTERNATES-All items are to be quoted as specified in the RFB or as an approved equivalent. In those cases when an alternate product is offered, it is the bidder's responsibility to provide detailed specifications, brand, make and model of the alternate offered, in the bidder's response/bid submission. In the event a bidder fails to take exception to the published bid specifications, the Authority shall evaluate the bid as offering the specified product/service. The Authority shall determine, at its sole discretion, if any alternate product offered is acceptable as an approved equivalent.

In the event the Authority specifies a model number or item that has been replaced/superseded by another model number or item, the bidder may quote the replacement item as an alternate. In this case, the bidder must specify the manufacturer and model number of the replacement item on the response/bid submission and must supply detailed descriptive literature and/or prints with that submission. The Authority will evaluate the proposed item to determine, in its sole discretion, whether it is an approved equivalent.

IV. BIDDER GUARANTEES

- A. WARRANTY-**The bidder hereby represents and warrants that the equipment offered is standard new equipment, latest model of regular stock product, with parts regularly used for the type of equipment offered, that such parts are all in production and none likely to be discontinued; also, that no attachment or part has been substituted or applied contrary to manufacturer's recommendations and standard practice.

The bidder shall unconditionally guarantee all new equipment for a term of one year from time of acceptance by the Authority unless specified otherwise in the RFB, and shall render prompt service of such equipment without charge, regardless of geographic location. The bidder shall maintain sufficient quantities of parts necessary for proper service to equipment at distribution points and service headquarters.

- B. BID SURETY-**Bidder shall submit with its bid proposal, fully executed by its bonding company and itself, either: (1) the standard form Authority Letter of Surety (attached hereto as Exhibit I), or (2) the standard form Authority Proposal Bond (attached hereto as Exhibit J), in the amount of 10% of its bid price. In lieu of the Letter of Surety or Proposal Bond, the bidder may elect to furnish with its bid proposal a Cashier's check in the amount of 10% of the bid price as a performance warranty deposit. This bid surety will be held by the Authority until award of the contract to insure compliance by the successful bidder with the terms and obligations of the bid including, but not limited to, delivery date.
- C. CONTRACT BOND-**The vendor shall, within ten (10) calendar days of receipt of the Notice of Award, furnish and deliver the Contract Bond on the standard form of the Authority, attached hereto as Exhibit K. The Contract Bond shall be in a sum of up to 100% of the total amount bid for the contract, as specified in the RFB, and shall be maintained by the vendor until final payment is made. In the event of insolvency of the Surety, the vendor shall forthwith furnish and maintain other Surety satisfactory to the Authority.
- D. NON-COLLUSION-** The bidder's signature on its bid is its guarantee that said bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the referenced contract; and that all statements contained in the bid and any additional statements requested by the Authority are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained therein in awarding the contract.

The bidder's signature on its bid is its guarantee, in accordance with N.J.S.A. 52:34-15, that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by the bidder for the purpose of securing business.

V. INSURANCE AND INDEMNIFICATION

A. INSURANCE-The bidder shall procure and maintain at its own expense for the entire term of the contract insurance for liability for damages imposed by law and assumed under this contract, of the kinds and in the amounts hereinafter provided. All insurance companies used must be authorized to do business in the State of New Jersey and must carry an A.M. Best Rating of A-/VII or better. Before commencing any services hereunder, the bidder shall furnish to the Authority a certificate(s) of insurance (together with declaration pages if requested by the Authority) showing that it has complied with this Section. All certificate(s) and notices of cancellation or change shall be mailed to: Director, Procurement and Materials Management Department, New Jersey Turnpike Authority, P.O. Box 5042, Woodbridge, New Jersey 07095. Upon request, the bidder shall furnish the Authority with a certified copy of each policy itself, including the provision establishing premiums.

The type and minimum limits of insurance shall be:

1. **Commercial General Liability Insurance.** The minimum limits of liability for this insurance per accident shall be as follows:

- Bodily injury and property damage
each occurrence combined single limit \$2,000,000.00
- Personal injury each occurrence \$2,000,000.00
- General Aggregate \$2,000,000.00
- Products Aggregate \$2,000,000.00
- Fire Damage Legal Liability \$100,000.00
- Medical Payments \$5,000.00

The above required Commercial General Liability Insurance shall name the Authority, its Commissioners, officers, employees, and agents as additional insureds. The coverage to be provided under this policy shall be at least as broad as the standard basic unamended and unendorsed Commercial General Liability Policy. The insurance policy shall be endorsed to include Personal Injury, Broad Form Property Damage, Contractual Liability (including the deletion of the coverage restriction related to work conducted within fifty (50) feet of a railroad), Products/Completed Operations, Independent Consultants and XCU if applicable. Products/Completed Operations coverage shall remain in force for a period of two (2) years following the completion and/or termination of the contract.

2. **Business Automobile Liability Insurance.** The Comprehensive Automobile Liability policy shall cover owned, non-owned, and hired vehicles with minimum limits as follows:

Combined Single Limit of Liability for Bodily Injury or Property Damage for any one accident: \$2,000,000.

This policy shall name the Authority, its Commissioners, officers, employees and agents as additional insured.

3. **Workers Compensation and Employers' Liability Insurance.** Workers Compensation Insurance shall be provided in accordance with the requirements of the laws of the State of New Jersey and shall include an All-States endorsement or similar statement in the policy declarations, extending coverage to any state which may be interpreted to have legal jurisdiction. Employers' Liability Insurance shall be provided with a limit of liability of not less than \$1,000,000 for each accident.

4. **Certificate and Endorsement Requirements**

Each of the above required policies shall contain the endorsements as stated below:

- (a) Thirty (30) days notice of cancellation or any restriction in coverage by registered mail to the Authority.
- (b) All policies, except Workers Wage and Employers' Liability Insurance, shall contain a waiver of subrogation clause in favor of the Authority.
- (c) With respect to Commercial General Liability and Automobile Liability policies, the other insurance clause under each policy shall be amended to read as follows: "This policy will act as primary insurance and not contribute with policies issued to the Authority."

The vendor shall also require that all of its contracting parties comply with the insurance requirements stated above including providing evidence of such insurance coverages in the same manner as stated above.

Due to future changes in economic financial and/or insurance market conditions the Authority at its discretion may modify the above stated insurance requirements.

NOTWITHSTANDING THAT MINIMUM AMOUNTS OF INSURANCE COVERAGE CARRIED OR REQUIRED TO BE CARRIED BY THE BIDDER ARE SPECIFIED HEREIN, THE LIABILITY OF THE BIDDER SHALL NOT BE LIMITED TO THE AMOUNTS SO SPECIFIED AND SHALL EXTEND TO ANY AND ALL LIABILITY IN EXCESS OF THE INSURANCE COVERAGES SO PROVIDED NOR SHALL THESE MINIMUM LIMITS PRECLUDE THE AUTHORITY FROM TAKING ANY ACTION AVAILABLE TO IT UNDER THE PROVISIONS OF THE CONTRACT OR OTHERWISE IN LAW.

B. INDEMNIFICATION-Vendor agrees to defend, indemnify and save harmless the Authority, its Commissioners, officers, employees, and agents and each and every one of them against and from all liabilities, judgments, threatened, pending or completed actions, suits, demands for damages or costs of every kind and description actually and reasonably incurred (including attorney's fees and costs and court costs) (collectively "Liabilities") including, without implied limitations, Liabilities for damage to property or Liabilities for injury or death of the officers, agents and employees of either the vendor or the Authority, resulting from any act or omission or willful misconduct of the vendor or any of its officers, agents, sub-consultants, or employees in any manner related to the subject matter of the contract. In the event that the vendor fails to defend, indemnify and save harmless the Authority, its Commissioners, officers, employees, and agents, and each and every one of them, in accordance with this Section, any money due to the vendor under and by virtue of the contract as shall be considered necessary by the Authority may be retained by the Authority and held until any and all liabilities shall have been settled and suitable evidence to that effect furnished to the Authority. The obligations in this Section shall survive the termination, expiration or rescission of the contract.

C. PATENT INDEMNIFICATION-The vendor hereby agrees that it will indemnify, defend and save harmless the Authority, its Commissioners, officers, agents and servants from all suits, actions, claims and judgments of any kind or character whatsoever for infringement of patent, trademark or copyright regarding the items bid herein that may be brought by any person, corporation or firm.

VI. DELIVERY REQUIREMENTS

A. DELIVERY DATE-A FIRM delivery date must be stated on the bid. Statements such as "stock" or "immediate" are not acceptable. Where the RFB calls for delivery within a specified time, it shall be indicated in the bid whether delivery will be made within the time specified.

B. F.O.B.-Price shall include delivery to the Authority F.O.B. destination, freight paid to any destination on the New Jersey Turnpike or Garden State Parkway. No additional charge will be allowed for any transportation cost resulting from partial shipments made at vendor's convenience when a single shipment is ordered. Prices quoted are firm throughout the term of the contract for complete delivery of quantities specified.

Bids submitted on an F.O.B. destination basis are mandatory; however, in instances where customs of the trade or unusual circumstances dictate F.O.B. shipping point, an estimate of the shipping charges must be noted on the bid and may be accepted in the Director's sole discretion. In such cases, actual shipping charges are to be prepaid and added to the invoice.

C. DELIVERY-Upon award of the contract:

1. Deliveries shall be made at such time and in such quantities as ordered in strict accordance with conditions stated in the RFB.
2. Deliveries may be set on a scheduled basis as arranged between the Authority and the vendor. It shall be the responsibility of the vendor to maintain an adequate supply stock.
3. The vendor will be responsible, at the point of delivery, for the delivery of material in such quality and condition as required by Paragraph IV.A. hereof and in accordance with good commercial practice.
4. Items delivered must be strictly in accordance with those bid upon.
5. As applicable, bidders must state in the space provided on the RFQ/bid solicitation documents the number of days required to make delivery after notification to ship.
6. In the event delivery is not made within the number of days stipulated, the Authority may purchase the required material from any available source. The difference in price, if any, will be paid by the vendor failing to meet its commitments.

VII. OTHER TERMS AND CONDITIONS

- A. CONTRACT PERIOD**- Except as otherwise stated in the RFB, the term of the contract shall be for one year, with the option to extend for two (2) one-year options, at the Authority's discretion, and with vendor's concurrence.
- B. EXTENSION OPTION**-If, in the opinion of the Director, it is in the best interest of the Authority to extend any contract beyond the original term, for a period of all or any part of a year, the vendor will be so notified of the Director's intent, prior to the expiration date of the existing contract. The Authority reserves the right to make up to two extensions of this contract for not more than one year each. If the extension is acceptable to the Authority at the original prices and on the original terms, notice will be given to the vendor by the Director in writing. If the original contract required a Contract Bond, a new Contract Bond must be submitted to cover the period of the extension. The same insurance requirements will be required for each extension period.
- C. TERMINATION OF CONTRACT**-The contract awarded may be terminated by the Authority at any time for inadequate or improper performance, or for breach of any terms, conditions, or obligations of the contract by the vendor, as determined by the Authority, or if the vendor shall make an assignment for the benefit of creditors, or file a voluntary petition in bankruptcy, or if an involuntary petition in bankruptcy is filed against the vendor and the act of bankruptcy therein alleged is not denied by the vendor, or if denied, is found by a court or jury. Further, the Authority reserves the right to terminate any contract for any reason provided written notice has been given by the Director to the vendor at least thirty (30) days prior to such proposed termination date.

The notice of termination shall be in writing, and shall be effective upon receipt by the vendor. Upon termination, the Authority shall be liable only for payment for goods or services properly delivered or performed in accordance with the contract. The Authority shall have the right to purchase non-delivered goods, to replace defective goods or services on the open market and hold the vendor liable for the difference between the price set forth in the contract for such goods or services and the prices paid on the open market, or pursue any other right available by law. In addition, the Authority shall have the right, without the necessity of court proceedings, to recover all equipment, material or supplies that are the property of the Authority and have been entrusted with the vendor to be used in the performance of said contract. Nothing in this paragraph is intended to limit the Authority's right to legally pursue all costs which exceed the amount due and owing the vendor under said contract. The list of remedies in this paragraph is not exclusive.

- D. SCOPE**-The total quantities of any contract are estimated. There is no guarantee of any minimum quantity. It is understood and agreed that contract prices shall cover the quantities actually required and ordered by the Authority during the term of the contract, whether more or less than the approximate quantity stated.
- E. BIDDERS FACILITIES**-The Authority reserves the right to inspect the bidder's establishment before making an award.
- F. TESTING**-The Authority reserves the right to have the material tested prior to the award and during the contract by an independent testing laboratory, to determine if the material meets the specifications of the RFB. If required for testing purposes, the low bidder shall submit a reasonable quantity of the product as samples. If these samples prove satisfactory, the contract shall be awarded. If they do not prove satisfactory, a test shall be made of the next low bidder's sample, until satisfactory products are found to meet requirements. Should the laboratory find that any shipment does not meet specifications, the Authority shall have the right to reject same.
- G. INSPECTION**- All work done and supplies furnished shall be subject to inspection, testing and rejection by the Authority, or its representatives, at all times and places, both during manufacture and at destination. After award of the contract, should the result of any test or inspections show that the material supplied fails to meet the requirements of the Authority, the material shall be rejected and immediately replaced by the vendor. Rejected supplies or materials will be returned at the vendor's risk, and all inspection, handling and transportation charges to and from the Authority's delivery site will be assumed by the vendor. The vendor shall bear any and all expenses resulting from delay caused by failure to meet test or inspection standards. Should the Authority for any reason decide to accept any shipment which fails to meet specifications, the Authority may make an appropriate price adjustment with regard to same.
- H. AWARDS**-Comparison of bids will be based on the total price stated in the bid and an award will be based on the total price, terms and delivery date given by the bidder. If the total price is found to have been incorrectly computed, discrepancies will be corrected by the Authority

on the basis of the unit prices and a determination of the low bidder will be made on the basis of the corrected total price. The Authority shall not be liable for any failure on its part to detect or correct errors, and the Authority's action in connection therewith shall not give rise to any rights to the bidder.

- I. NOTICE TO VENDORS AND AUTHORITY DEPARTMENTS**-The Authority is authorized to order, and vendors are authorized to ship only those items covered by the contract. If a review of orders placed by the Authority reveals that material other than that covered by the contract has been ordered and delivered, the Director will take such steps as are necessary to have the material returned regardless of the time elapsed between the date of delivery and discovery of the violation. A full refund to the Authority by the vendor will be required.
- J. RIGHT TO AUDIT**-Vendor shall keep and maintain proper and adequate books, records and accounts accurately reflecting all costs and amounts billed to Authority under the contract at issue. Authority, its employees, officers, or representatives shall have the right upon written request and reasonable notice, to inspect and examine all of the vendor's books and records related to the contract. Such records shall be retained by vendor for at least seven (7) years from the termination of the contract. In no event shall books and records be disposed of or destroyed of prior to seven (7) years from the termination of the contract or during any dispute or claim between the Authority and vendor with regard to the contract at issue.
- K. TAXES**-The Authority is exempt from Federal Excise Tax, New Jersey State Sales and Use Tax and other tax as applicable.
- L. TRANSFER OF BUSINESS**-It is understood by all parties that, if, during the term of the contract, the vendor disposes of its business by sale, transfer or by any means to another party, all obligations are transferred to such purchaser.
- M. INTERAGENCY COOPERATIVE PURCHASING**-Pursuant to P.L. 1999, c. 440, vendors may receive inquiries by the entities listed below, with respect to extending this contract to them based upon the same prices, terms and conditions:
 - South Jersey Transportation Authority
 - New Jersey Sports & Exposition Authority
 - New Jersey Meadowlands Commission
 - New Jersey Water Supply Authority
 - Port Authority of New York & New Jersey
 - Delaware River Port Authority
 - Higher Education Student Assistance Authority
- N. CONTRACT CHANGES**-During the term of contract, no change will be permitted in any of its conditions and specifications unless the vendor receives written approval from the Director.

Should the vendor find at any time that existing conditions make modification in requirements necessary, the vendor shall promptly report such matter to the Director for consideration and decision.

O. SUBCONTRACTING OR ASSIGNMENT-The contract may not be subcontracted or assigned by the vendor, in whole or in part, without the prior written consent of the Director. In the event that bidder proposes to subcontract some or all of the services to be provided under the contract, it shall state so in its bid and attach for approval a list of said subcontractors and an itemization of the goods and/or services to be supplied by them.

P. REJECTION OF BIDS-Failure to comply with the instructions set forth herein may be considered grounds for rejection of the bid. The Authority further reserves the right to reject any or all bids as it may, in its sole discretion, determine to be in its best interest, or for any other reason allowed by law.

EXHIBIT A

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE **N.J.S.A. 10:5-31 et seq., N.J.A.C. 17:27**

GOODS, PROFESSIONAL SERVICES AND GENERAL SERVICE CONTRACTS

During the performance of this contract, the contractor agrees as follows:

- A. The Contractor or Subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment and that employees are treated during employment without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not 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. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.
- B. The Contractor or Subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity, or expression, disability, nationality or sex.
- C. The Contractor or Subcontractor will send to each labor union with which it has a collective bargaining agreement a notice, to be provided by the agency contracting officer, advising the labor union of the Contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- D. The Contractor or Subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time, and the Americans with Disabilities Act.
- E. The Contractor or Subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.
- F. The Contractor or Subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities and labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

- G. The Contractor or Subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personal testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.
- H. In conforming with the targeted employment goals, the Contractor or Subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.
- I. The Contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:
 - i. Letter of Federal Affirmative Action Plan Approval
 - ii. Certificate of Employee Information Report
 - iii. Employee Information Report Form AA302

The Contractor and its Subcontractors shall furnish such reports or other documents to the Division of Public Contracts Equal Employment Opportunity Compliance as may be requested by the Division from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Public Contracts Equal Employment Opportunity Compliance for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code at N.J.A.C. 17:27**

Submitted by:

Firm Name: _____

Signature: _____

Print Name: _____

Title: _____

Date: _____

EXHIBIT B
AFFIRMATIVE ACTION INFORMATION SHEET

BIDDERS ARE REQUIRED TO SUBMIT ONE OF THE FOLLOWING FORMS RELATING TO COMPLIANCE WITH AFFIRMATIVE ACTION REGULATIONS. **PLEASE COMPLETE AND RETURN THIS FORM AND ANY REQUIRED DOCUMENTS WITH THE BID.**

1. The bidder has a Federal Affirmative Action Plan Approval which consists of a valid letter from the United States Department of Labor Office of Federal Contract Compliance Programs (Good for one year of the date of letter).

YES _____ NO _____

If Yes, a photocopy of the Letter of Approval is to be submitted with the bid.

(OR)

2. The bidder has submitted an Affirmative Action Employee Information Report (Form AA302) to the State Treasurer, and the State Treasurer has approved said report pursuant to N.J.A.C. 17:27-4.6.

YES _____ NO _____

If Yes, a photocopy of the Certificate of Employee Information Report is to be submitted with the bid. (Expiration Date on Certificate)

Certificate Number _____

(OR)

3. The bidder has submitted an Employee Information Report (Form AA302) to the State Treasurer, and the State Treasurer has not yet approved said report.

YES _____ NO _____

If Yes, a photocopy of the Form AA302 is to be submitted with the bid.

If you are the successful bidder and have none of the above, please contact the Procurement and Materials Management Department of the Authority at **(732) 750-5300 ext. 8629** within five (5) days of notification of award for an Affirmative Action Employee Information Report (Form AA302). This completed form must be forwarded to the State Treasurer, Division of Public Contracts, Equal Opportunity Compliance Office, with the AUTHORITY's Copy (Pink) returned to the Turnpike Authority Procurement and Materials Management Department.

The signature below certifies that one of the above forms of Affirmative Action evidence has been submitted, and all information contained above is correct to the best of my knowledge.

Signed _____ Date Signed _____

Print Name and Title _____

Bidder's Company Name _____

Address _____

Telephone Number _____ Fax Number _____

EXHIBIT C

STOCKHOLDER/PARTNERSHIP DISCLOSURE STATEMENT

The undersigned Bidder, _____, a Corporation/Partnership (circle one) organized under the laws of _____, does hereby state and declare, in compliance with P.L. 1977, c. 33, N.J.S.A. 52:25-24.2, that the following stockholders or partners, as the case may be, own 10 percent or greater interest therein. (If one or more such stockholder or partner is itself a corporation or partnership, the stockholders holding 10% or more of that corporation's stock, or the individual partners owning 10% or greater interest in that partnership, as the case may be, shall also be listed.)

<u>Name</u>	<u>Address</u>	<u>Number of Shares of Stock in Corporation or % of Interest in Partnership</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

I certify that to the best of my knowledge the list of stockholders above is current and correct.

AUTHORIZED SIGNATURE: _____

Print Name and Title: _____

Witnessed by _____ Date _____

EXHIBIT D

State Contractor Political Contributions Compliance Public Law 2005, Chapter 51 and Executive Order 117

In order to safeguard the integrity of State government procurement by imposing restrictions to insulate the award of State contracts from political contributions that pose the risk of improper influence, purchase of access, or the appearance thereof, Executive Order 134 (McGreevey) was signed on September 22, 2004 and became effective October 15, 2004. EO134 was applicable to all State agencies, the principal departments of the executive branch, any division, board, bureau, office, commission within or created by a principal executive branch department, and any independent State authority, board, commission, instrumentality or agency. EO134 was superseded by P.L. 2005, c. 51, signed into law on March 22, 2005 (“Chapter 51”). In September 2008, Executive Order 117 (Corzine) was signed and became effective November 15, 2008. EO117, which applies only prospectively, extends Chapter 51’s political contribution restrictions by expanding the definition of “business entity” to include, for example, more corporate shareholders and sole proprietors. EO117 and Chapter 51 contain restrictions and reporting requirements that will necessitate a thorough review of their provisions by bidders.

Pursuant to the requirements of Chapter 51 and EO117, the terms and conditions set forth in this Exhibit are material terms of any contract entered into by the Authority.

DEFINITIONS

For the purpose of this Exhibit, the following shall be defined as follows:

a) “**Contribution**” – means a contribution reportable by the recipient under the New Jersey Campaign Contributions and Expenditures Reporting Act, P.L. 1973, c. 83, N.J.S.A. 19:44A-1 et seq., and implementing regulations set forth at N.J.A.C. 19:25-7 and N.J.A.C. 19:25-10.1 et seq., made on or after October 15, 2004. As of January 1, 2005, contributions in excess of \$300 are reportable.

b) “**Business Entity**” – means any natural or legal person; business corporation (and any officer, person, or business entity that owns or controls 10% or more of the corporation’s stock); professional services corporation (and any of its officers or shareholders); limited liability company (and any members); general partnership (and any partners); limited partnership (and any partners); in the case of a sole proprietorship: the proprietor; a business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction, including its principals, officers, or partners. The definition of a business entity also includes (i) all principals who own or control more than 10 percent of the profits or assets of a business entity; (ii) any subsidiaries directly or indirectly controlled by the business entity; (iii) any political organization organized under section 527 of the Internal Revenue Code that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (iv) if a business entity is a natural person, that person’s spouse, civil union partner or child, residing in the same household, except for

contributions by spouses, civil union partners, or resident children to a candidate for whom the contributor is eligible to vote, or to a political party committee within whose jurisdiction the contributor resides.

PROHIBITION ON CONTRACTS/BREACH OF EXISTING CONTRACT

As set forth in Chapter 51 and EO117, the Authority shall not enter into a contract to procure from any Business Entity services or any material, supplies or equipment, or to acquire, sell or lease any land or building, where the value of the transaction exceeds \$17,500, if that Business Entity has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions, to a candidate committee and/or election fund of any candidate for or holder of the public office of Governor or Lieutenant Governor, or to any State, county or municipal political party committee, or legislative leadership committee during specified time periods.

Further, it shall be a breach of the terms of any contract with the Authority for any Business Entity who has been awarded the contract, during the term of the contract or any extension thereof, to:

- (i) make or solicit a contribution in violation of Chapter 51 or EO117;
- (ii) knowingly conceal or misrepresent a contribution given or received;
- (iii) make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution;
- (iv) make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate of holder of the public office of Governor or Lieutenant Governor, or to any State, county or municipal party committee, or legislative leadership committee;
- (v) engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would make or solicit any contribution, which if made or solicited by the Business Entity itself, would subject that entity to the restrictions of Chapter 51 or EO117;
- (vi) fund contributions made by third parties, including consultants, attorneys, family members, and employees;
- (vii) engage in any exchange of contributions to circumvent the intent of Chapter 51 or EO117; or
- (viii) directly or indirectly through or by any other person or means, do any act which would subject that entity to the restrictions of Chapter 51 or EO117.

CERTIFICATION AND DISCLOSURE REQUIREMENTS

Prior to the award of any contract or agreement, the Authority shall notify any Business Entity to which it intends to award a contract of the need to submit to the Authority a completed Certification and Disclosure of Political Contributions form, as issued by the State Treasurer. **The intended awardee will receive the applicable form from the Authority's Procurement and Materials Management Department to be completed and returned to the Authority for submission to the State Treasurer.**

In completing this form, the Business Entity must certify that no contributions prohibited by Chapter 51 or EO117 have been made by the Business Entity and must report all contributions the Business Entity made during the preceding four years to any political organization organized under 26 U.S.C. § 527 of the Internal Revenue Code that also meets the definition of a “continuing political committee” within the meaning of N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.7. Failure to submit the required forms will preclude award of the contract at issue, as well as future contract opportunities.

Upon approval by the State Treasurer, the Authority will issue a contract. However, if the State Treasurer determines that any contribution or action by a Business Entity poses a conflict of interest in the awarding of the contract or agreement at issue, the State Treasurer shall disqualify the Business Entity from award of such contract.

Once approved by the State Treasurer, a Business Entity’s Political Contributions Certification is valid for a two (2) year period from the date of approval. If, prior to the award of a contract, the State Treasurer confirms to the Authority that the intended awardee has an approved Certification that will remain valid for the term of the contract, the Authority may waive the requirement that the awardee complete an additional Certification and Disclosure of Political Contributions form.

Any Business Entity entering into a contract with the Authority is required, on a continuing basis, to report to the Authority any contributions it makes during the term of the contract, and any extension(s) thereof, at the time any such contribution is made. Such reports shall be subject to review by the Authority and the State Treasurer. If the State Treasurer determines that any such contribution poses a conflict of interest, such contribution shall be deemed a material breach of the contract or agreement at issue.

EXHIBIT E

**NEW JERSEY ELECTION LAW ENFORCEMENT COMMISSION
REQUIREMENT FOR DISCLOSURE OF POLITICAL CONTRIBUTIONS**

All business entities are advised of their responsibility to file on annual disclosure statement of political contributions with the New Jersey Election Law Enforcement Commission (ELEC) pursuant to N.J.S.A. 19:44A-20.27 if they receive contracts in excess of \$50,000.00 from public entities in a calendar year. Business entities are responsible for determining if filing is necessary. Additional information on this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us

**DISCLOSURE OF CONTRIBUTIONS TO NEW JERSEY ELECTION LAW
ENFORCEMENT COMMISSION IN ACCORDANCE WITH N.J.S.A. 19:44A-20.27**

The undersigned Bidder submitting the bid for the goods/services herein hereby acknowledges its responsibility to file an annual disclosure statement of political contributions with the New Jersey Election Law Enforcement Commission (ELEC) pursuant to N.J.S.A. 19:44A-20.27 if in receipt of contracts in excess of \$50,000.00 from public entities in a calendar year. Bidder further acknowledges that business entities are solely responsible for determining if filing is necessary and that all statements contained in said bid and in this certification are true and correct, and made with full knowledge that the New Jersey Turnpike Authority relies upon the truth of the statements contained in said bid and in statements contained in this certification in awarding the contract at issue.

I certify that I am authorized to make the foregoing statements on behalf of the Bidder and that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

AUTHORIZED SIGNATURE: _____

Print Name and Title: _____

Bidder : _____

Date: _____

EXHIBIT F

SMALL/MINORITY/WOMAN OWNED BUSINESS ENTERPRISE

If your firm is registered with the State of New Jersey as a Small Business Enterprise (SBE) and/or certified as a Woman Business Enterprise (WBE) or Minority Business Enterprise (MBE), you must send a copy of the Registration/Certification Form(s) with your quotation.

Please check off the gross receipt category of your business if registered as an SBE

SBE CATEGORY 1 \$0- \$500,000 _____

SBE CATEGORY 2 \$500,001 thru \$5,000,000 _____

SBE CATEGORY 3 \$5,000,001 thru \$12,000,000 _____

NOT APPLICABLE _____

SBE Registration # _____

Please check below if applicable

W B E _____ M B E _____

COMPANY _____

SIGNATURE _____

NAME _____

TITLE _____

DATE _____

EXHIBIT G

**VENDOR DISCLOSURE FORM
EXECUTIVE ORDER # 129**

Please be advised that in accordance with Executive Order #129 (2004), the New Jersey Turnpike Authority has developed this form under the policy and procedures directed under this Order. In entering into contracts, the State contracting agencies must consider the requirements of New Jersey's contracting laws, the best interests of the State of New Jersey and its citizens, as well as applicable federal and international requirements.

The State contracting agencies shall ensure that all vendors seeking to enter into any contract in which services are procured on behalf of the State of New Jersey must disclose:

- A. The location by country where services under the contract will be performed; and
- B. Any subcontracting of services under the contract and the location by country where any subcontracted services will be performed.

THE LOCATION BY COUNTRY WHERE SERVICES UNDER THIS CONTRACT WILL BE PERFORMED:

Contractor Name: _____

Address: _____

Country: _____

Subcontractor #1 Name: _____

Address: _____

Country: _____

Subcontractor #2 Name: _____

Address: _____

Country: _____

(For additional subcontractors, attach additional copies of this form)

I certify that all information is true and correct to the best of my knowledge.

Signature: _____

Print Name: _____ Title: _____

EXHIBIT H

**NOTICE TO ALL BIDDERS
SET-OFF FOR STATE TAX**

Please be advised that pursuant to P.L. 1995, c. 159, effective January 1, 1996 and notwithstanding any provision of the law to the contrary, whenever any taxpayer, partnership, or S corporation under contract to provide goods or services or construction projects to the State of New Jersey or its agencies or instrumentalities, including the legislative and judicial branches of State government, is entitled to payment for those goods or services or construction projects and at the same time the taxpayer, or the partner or shareholder of that entity, is indebted for any State tax, the Director of the Division of Taxation shall seek to set-off that taxpayer's, partner's or shareholder's share of the payment due to the taxpayer, partnership, or S corporation. The amount of set-off shall not allow for the deduction of any expenses or other deductions which might be attributable to a partner or shareholder subject to set-off under this act. No payment shall be made to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects pending resolution of the indebtedness.

The Director of Division of Taxation shall give notice of the set-off to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects and provide an opportunity for a hearing with thirty (30) days of such notice under the procedures for protests established under N.J.S.A. 54:49-18. No requests for conference, protest or subsequent appeal to the Tax Court from any protest under this section shall stay the collection of the indebtedness. Interest that may be payable by the State pursuant to P.L. 1987, c. 184, N.J.S.A. 52:32-32 et seq. to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects shall be stayed.

"I HAVE BEEN ADVISED OF THIS NOTICE."

COMPANY _____

SIGNATURE _____

NAME _____

TITLE _____

DATE _____

EXHIBIT I

LETTER OF SURETY

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned

_____ as PRINCIPAL: and

_____ as Surety and duly qualified to transact business in the State of New Jersey, are hereby held and firmly bound unto the New Jersey Turnpike Authority in the sum by which the amount of the Contract, covering the attached proposal, properly and lawfully executed by and between the New Jersey Turnpike Authority and some third party, may exceed the amount bid by the Principal for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed, this _____ day of _____ A.D.

Two Thousand and _____.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH that whereas the Principal has submitted to the New Jersey Turnpike Authority a certain Proposal, attached hereto and hereby made a part hereof, to enter into a Contract in writing for Contract No. _____ of the New Jersey Turnpike Authority;

NOW, THEREFORE,

(a) If said Proposal shall be rejected by the New Jersey Turnpike Authority, or in the alternative,

(b) If said Proposal shall be accepted by the New Jersey Turnpike Authority, and the Principal shall duly execute the Contract Agreement and furnish the required Contract Bond, within the stipulated time,

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligation of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Authority may accept such Proposal; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

[Corporate Seal]

WITNESS OR ATTEST:

Principal

[Corporate Seal]

WITNESS OR ATTEST:

Surety

EXHIBIT J

PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned

_____ as PRINCIPAL: and

_____ as Surety and duly qualified to transact business in the State of New Jersey, are hereby held and firmly bound unto the New Jersey Turnpike Authority in the sum of

_____ Dollars and

_____ Cents \$ _____) for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed, this _____ day of _____ A.D.

Two Thousand and _____.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH that whereas the Principal has submitted to the New Jersey Turnpike Authority a certain Proposal, attached hereto and hereby made a part hereof, to enter into a Contract in writing for Contract No. _____ of the New Jersey Turnpike Authority;

NOW, THEREFORE,

(a) If said Proposal shall be rejected by the New Jersey Turnpike Authority, or in the alternative,

(b) If said Proposal shall be accepted by the New Jersey Turnpike Authority and the Principal shall duly execute the Contract Agreement and furnish the required Contract Bond, within the stipulated time,

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event, exceed the amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligation of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Authority may accept such proposal; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

[Corporate Seal]

WITNESS OR ATTEST

Principal

[Corporate Seal]

WITNESS OR ATTEST:

Surety

EXHIBIT K

CONTRACT NO. _____

CONTRACT BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____

duly organized under the Laws of the _____
(An individual, a partnership, a corporation)

State of _____ and having a usual place of _____

_____ at _____ as

Principal, and _____ a

corporation duly organized under the Laws of the State of _____ and duly authorized to do business in the State of New Jersey and having a usual place of business at

_____, as Surety, are holden and stand firmly

bound and obligated unto the New Jersey Turnpike Authority, as Obligee, in the sum of

_____ lawful money of the United States of America, to and for the

true payment whereof we bind ourselves and each of us, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas, the above named

Principal did on the _____ day of _____, 200____, enter into a contract with the

Obligee, New Jersey Turnpike Authority generally described as follows: _____

_____ which said contract is made part of this Bond the

same as though set forth herein.

Now, if the said Principal shall well and faithfully do and perform the things agreed by the Principal to be done and performed according to the terms of said contract, and shall pay all lawful claims of laborers and other beneficiaries as defined by N.J.S. 2A:44-143 for labor performed or materials, provisions, provender of other supplies, or teams, fuels, oils, implements or machinery furnished, used or consumed in the carrying forward, performing or completing of said contract, we agreeing and assenting that this undertaking shall be for the benefit of laborers and any beneficiary as defined in N.J.S. 2A:44-143 having a just claim, as well as, for the Obligee herein, then this obligation shall be void; otherwise, the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

The said Surety hereby stipulates and agrees that no modifications, omissions or additions in or to the terms of the said contract or in or to the plans or specifications therefore shall in anywise affect the obligation of said Surety on its bond, and the Surety hereby waives notice of same.

IN WITNESS WHEREOF, we have hereunto set our hands and seals

this _____ day of _____ in the year 200_____.

WITNESS OR ATTEST:

[CORPORATE SEAL]

PRINCIPAL

WITNESS OR ATTEST:

[CORPORATE SEAL]

SURETY