

**THE NEW JERSEY TURNPIKE AUTHORITY
PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT**

New Jersey Turnpike Administrative Offices

1 Turnpike Plaza

P.O. Box 5042

Woodbridge, New Jersey 07095-5042

Tel. - 732-750-5300 Ext. 8640

REQUEST FOR BID

TITLE: **SINGLE AXLE DUMP TRUCKS WITH ACCESSORIES**

BID NO: **R-171324**

DUE DATE: **5-26-22**

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

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 \$100,000, 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 for 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, 1 Turnpike Plaza, Woodbridge, New Jersey 07095. **LATE BIDS WILL BE RETURNED UNOPENED. ELECTRONIC, EMAILED OR FACSIMILE BIDS WILL NOT BE ACCEPTED.** Bid opening will take place via conference call only. See page 6.
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 on the exception form attached.
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. **See Page 6 Regarding Non-Mandatory Pre-Bid Conference Call.**
6. **IF CHECKED, THIS RFB REQUIRES THE FOLLOWING MANDATORY DOCUMENT(S). FAILURE TO COMPLY WILL RESULT IN REJECTION OF THE BID. SEE INSTRUCTION TO BIDDERS FOR ALL DOCUMENTS.**
 - (a) Bid Bond, Letter of Surety or a Cashier’s Check for 10% of the amount Bid
 - (b) Ownership Disclosure Statement – See Instruction to Bidders- Exhibit C
 - (c) Vendor Disclosure Form- See Instruction to Bidders- Exhibit G
 - (d) Disclosure of Investment Activities in Iran- See Instruction to Bidders- Exhibit G-1
7. **TO FACILITATE THE CONTRACT AWARD PROCESS, THE FOLLOWING DOCUMENTS SHOULD BE SUBMITTED WITH THE BID. IN THE EVENT THE DOCUMENTS ARE NOT SUBMITTED WITH THE BID, THEY SHALL BE SUBMITTED WITHIN THREE (3) BUSINESS DAYS FOLLOWING A VERBAL OR WRITTEN REQUEST FROM THE AUTHORITY. SEE INSTRUCTION TO BIDDERS FOR ALL DOCUMENTS.**
 - (a) Certification of Registration with the Secretary of State (only if non-NJ corporation)
 - (b) Acknowledgement of requirement for Disclosure of Political Contributions (ELEC)
 - (c) SBE/WBE/MBE/VOB/DVOB Certificates and Form
8. Bidder must sign the Bid

SEE THE AUTHORITY’S INSTRUCTION TO BIDDERS FOR A COMPLETE LIST OF THE AUTHORITY’S STANDARD CONTRACT TERMS AND CONDITIONS, AS WELL AS OTHER DOCUMENTS THAT ARE REQUIRED PRIOR TO THE AWARD OF CONTRACT(S).
9. **THE RECOMMENDED LOW BIDDER(S) MUST SUBMIT THE FOLLOWING CHECKED DOCUMENTS PRIOR TO CONTRACT AWARD.**
 - (a) Mandatory Equal Employment Opportunity Language
 - (b) Affirmative Action Information Sheet with Certificate or Form AA302
 - (c) State Contractor Political Contributions Compliance Public Law 2005, Chapter 51 & EO 117
 - (d) Notice to All Bidders of Set-Off for State Tax
 - (e) Insurance Certificate
 - (f) State of New Jersey Division of Business Registration Certificate
 - (g) Instruction and Agreement for Direct Payment (ACH)
 - (h) Russia Interim Certification (P.L.2022. C.3)

SECTION II

A. INTENTION

1. **Sealed Bids (Paper Submission Only)** for R-171324 must be received at the New Jersey Turnpike Authority Administrative Offices, 1 Turnpike Plaza, Woodbridge, New Jersey 07095-5042, by the due date and time stated on the cover page of this “RFB”.
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/ “NOA” for the procurement of **SINGLE AXLE DUMP TRUCKS WITH ACCESSORIES.**
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 John Parmigiani with any questions regarding this procurement contract at 732-750-5300 x 8632 or jparmigiani@njta.com.

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 in the form of an addendum shall be issued at least three (3) days prior to the bid opening by the Director of PMM to Bidders who have obtained the Bid Documents in accordance with *N.J.A.C. 19:9-2.2(a)(3)*. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the Bid opening date.** Please contact John Parmigiani with any questions regarding this procurement contract at 732-750-5300 x 8632 or jparmigiani@njta.com.
3. 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.
4. 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.
5. The Bidder shall not attach conditions, limitations, or provisos to its Bid.

6. **The Authority will accept Approved Equivalent items on this Bid.** If a Bidder is basing the RFB 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 Form 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 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(s).
5. The Authority is tax exempt from New Jersey Sales and Excise Tax.
6. Award will be made to the lowest responsible and responsive bidder for the total line items Bid.

D. **MISCELLANEOUS**

1. Anticipated Delivery Date: _____
2. **ELECTRONIC PAYMENT: The Vendor will be required to accept payment(s) for goods or services via automatic deposit from the Authority. NO OTHER FORM OF PAYMENT WILL BE PROVIDED. See Exhibit M in the Instructions to Bidders on the Authority’s website for the required electronic payment forms: <http://www.njta.com/doing-business/goods-and-services>**
3. Contract Bond: The successful bidder will be required upon award, to provide a contract bond in an amount of **-0-** % of the Contract amount.

E. BID OPENING

Please be advised that the Public Bid Opening for Bid R-171324 will be by CONFERENCE CALL ONLY ON 5-26-22 AT 11:00 AM.

CONFERENCE CALL DETAILS:

Dial-in Number: (646) 992-2010

Access Code: 2343 625 6489

FOR ANY BIDDER WHO WISHES TO PARTICIPATE, CONFERENCE CALL ACCESS SHALL OPEN 5 MINUTES PRIOR TO BID OPENING AND SHALL REMAIN OPEN UNTIL ALL BIDS HAVE BEEN READ.

NON-MANDATORY PRE-BID CONFERENCE CALL

MAY 10, 2022, AT 11:00 AM

DIAL-IN NUMBER: (646) 992-2010

ACCESS CODE: 2333 412 7298

F. BID QUOTATION SHEET

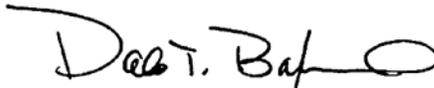
ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	12	EA	SINGLE AXLE DUMP TRUCKS WITH ACCESSORIES	\$	\$
2	4	EA	10' PATROL WING PLOW AS PER SPECIFICATION	\$	\$

ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA EMAIL TO:

John Parmigiani at jparmigiani@njta.com

PURSUANT TO N.J.A.C. 19:9-2.2 (a)(3), Addenda will be distributed and posted on the Authority's website at least three days prior to the bid opening.

NEW JERSEY TURNPIKE AUTHORITY



Dale Barnfield
Director
Procurement and Materials Management

_____/_____
Name of Company / Authorized Signature of Bidder

G. 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: _____

ADDITIONAL YEARS PURCHASING OPTION
FOR
PROPOSAL TITLE: SINGLE AXLE DUMP TRUCKS WITH ACCESSORIES
R-171324

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 _____.

Name of Company and / Authorized Signature of Bidder

**NEW JERSEY TURNPIKE AUTHORITY
GENERAL INSTRUCTIONS AND SPECIFICATIONS FOR:**

Estimated Quantities	Description	Required Delivery Date
12	Conventional Cab Chassis with 9.8-Cubic Yard Stainless Steel Dump Bodies And Accessories	420 Days After Receipt of Order

Intent: It is the intent of this specification to describe and govern the purchase and installation of New Single Axle Dump truck and associated equipment.

Together with other associated equipment described herein, the manufacturers make, exact model and literature shall be submitted with bidder's proposal. The unit shall be new and of the latest design and current production at the time of submission of this bid.

The following specification is based upon various truck chassis, dump bodies, and snowplow hitches. The Authority has evaluated different types of truck chassis, dump bodies, and snowplow hitches; and has determined that this specification is best suited for the Authorities needs in safety, quality, performance, and long-term operating cost. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality, and performance against which all components will be compared.

SPECIFICATIONS:

CC-2022: CAB CHASSIS

SC-2022 SAFETY LIGHTING AND CAMARA SYSTEM

DB-2022: 11' STAINLESS STEEL DUAL AUGER DUMP BODY

CHS-2022: CENTRAL HYDRAULIC SYSTEM

SPH-2022: SNOWPLOW HITCH

WARRANTIES AND DIAGNOSTICS

WP-2022 OPTIONAL WING PLOW

NJTA-1001 FRONT BUMPER TREAD PLATE

NJTA-1002 REAR OF TRUCK

NJTA-CE01 CONSPICUITY

NJTA-1003 AUGER & SPINNER

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

TCAABC-2018: TRAILER CONNECTION/ABS AIR BRAKE CONTROL

NJTA-DSL01 DASH SWITCH LAYOUT

NJTA-BBC01 BODY BUILER 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, where applicable.

ENERGY STAR REQUIREMENTS: If applicable for items specified in the bid package, the vendor must provide products that earn Energy Star Certification 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.

QUESTIONS: Questions, which arise before or during the preparation of the unit, shall be addressed in writing via e-mail from the vendor to Dale Barnfield (Director of Procurement) at dbarnfield@njta.com at the New Jersey Turnpike Authority on a not to delay basis. Questions shall be from the prime bidder only, no subcontractors.

PILOT MODEL: The awarded bidder shall coordinate a pre-build meeting with all sub-contractors of the major components. Pilot Model pre-build meeting shall take place at the upfitting sub contractors' facility. During this pre-build meeting all components shall be present and mocked up to their locations. Once approved by NJTA representatives, the sub-contractors will proceed with installation to develop the pilot model. The awarded bidder shall make available one **fully completed** pilot model for inspection and approval by the Authority (240) two hundred forty days after bid award. After pilot has been approved, the completed order must arrive within the (180) one hundred eighty days after pilot approval. The pilot unit shall be transported (responsibility of the awarded vendor) to the New Jersey Turnpike Authority location for review:

**District 4 Maintenance Facility
Exit 8 NJ Turnpike and Route 33
Hightstown, NJ 08520**

REQUIRED DELIVERY DATE: In the event a bidder takes an exception to the Authority's required delivery date, they **must** note the exception on the attached exception sheet. Furthermore, a **specific** number of days **must** be listed. Under **no** circumstances shall bidders give approximate dates or ranges of dates to deliver such as: 365 days to 450 days.

FAILURE TO FOLLOW THESE GUIDELINES MAY RESULT IN REJECTION OF BID.

DELIVERY INSTRUCTIONS:

Vendor must contact Richard Schneider (Project Supervisor) at 732-750-5300 ext. 8649 for authorization to schedule date and time prior to delivery. **Deliveries shall be made to:**

**New Jersey Turnpike Authority
District 4 Maintenance Facility
Exit 8 NJ Turnpike and Route 33
Hightstown, NJ 08520**

- A. Vendor shall be responsible for all delivery, shipping, and pick-up expenses.
- B. All units must be pre-delivery serviced, completely assembled, operational, and cleaned prior to Authority delivery.
- C. The following administrative package **must** accompany all deliveries:
- Certificate of Origin: All New Jersey manufacturers, dealers, and/or distributors **must** stamp the C.O. "Sales Tax Satisfied". The C.O. shall be made out to New Jersey Turnpike Authority, P.O. Box 5042, Woodbridge, NJ 07095. Certificate of Origin shall have current date and be hand delivered to Richard Schneider after final acceptance of complete order.
 - Invoice: purchase order number must be displayed on vendor's invoice. Invoice shall have current date and be hand delivered to Richard Schneider 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**
 - New Jersey State NJMVC (Motor Vehicle Commission) required inspection stickers shall be provided with each vehicle upon delivery.
 - Federal Safety Inspections shall be performed, and stickers shall be attached to the vehicles prior to delivery.
 - All vehicles being delivered shall have a dealer plate affixed to the vehicle.
 - It shall be the responsibility of the awarded vendor that all tolls, when applicable be paid when making delivery to the Authority.
 - Delivery of all units fully completed and fully compliant shall be made no later than four hundred twenty (420) days after receipt of Purchase Order.

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

E. **Deliveries made directly to the Authority from the manufacturer shall not be acceptable unless manufacturer is awarded bidder.**

F. In the event the awarded bidder contracts a trucking/delivery company to deliver units, a representative from the awarded bidder's company must be at the delivery site at time of delivery to the Authority. **NO**

EXCEPTIONS

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 coverages in 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 District 5 Telegraph Hill Central Maintenance Facility in Holmdel, NJ 07733, or District 4 (Formerly 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. All warranty periods shall start from date of acceptance of unit by the New Jersey Turnpike Authority.

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.**

APPROVED EQUIVALENT: A bid substitution for a specified item brand and/or model that meets the required quality and performance standards of the original brand; substitutions will be determined to be an approved equivalent by the New Jersey Turnpike Authority.

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 like factory and manufacture type schools. The training shall be scheduled and take place at two (2) sites, approximately (8) hours per site as designated by the New Jersey Turnpike Authority.

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

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

NOTICE TO BIDDERS: Bidders shall **not** be allowed to use vehicles/equipment in any type of shows, conventions, brochures, etc. without prior written consent of the New Jersey Turnpike Authority. **NO EXCEPTIONS**

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

FACILITIES: Bidders shall represent a manufacturer, and their sub-contractors shall have in operation a manufacturing facility adequate for the manufacture of the equipment for 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 a telephone order and shall be located within a 100-mile radius of either District 4 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. 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

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. IF THERE IS ANY DEVIATION FROM THE SPECIFICATION THE BIDDER IS TO MARK "NO", PROVIDE THE SPECIFICATION NONCOMPLIANCE, AND PROVIDE A DETAILED EXPLANATION OF THE SUBSTITUTION ON THE EXCEPTION PAGE. PLEASE BE ADVISED ANY PROPOSED EQUIVALENT OR OTHER EXCEPTIONS THAT ARE DEEMED TO BE A MATERIAL DEVIATION FROM THE SPECIFICATION SHALL BE A MANDATORY CAUSE FOR REJECTION. 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.

CC-2022 CAB CHASSIS

	COMPLY	
	YES	NO
GENERAL:		
A. Current production year Mack Granite or Authority approved equivalent SFA (Set Forward Axle) 4x2, 6 Wheel Configuration.		
B. Authorized chassis dealer must be the prime bidder No Exceptions		
C. Vehicle and all major components, chassis, engine, transmission, front and rear axles must be completely assembled on chassis in the United States, by the chassis manufacturer.		
D. Chassis dealer must be a Registered Business in the State of New Jersey.		
E. Due to the complexity of the build a list of references shall be provided with similar or larger size fleets to the Authority.		
F. Due to the complexity of the build the Authority will not except one off or prototype equipment.		
G. During the build process the authority reserves the right to inspect the facility performing the Chassis Manufactures Production. Bidder will be required to provide transportation costs if build is outside a 100 miles radius of New Jersey Turnpike District 4 facility, Hightstown, NJ 08520		
H. Pilot Model shall be completed in the current calendar year		
I. Delivery date, (240) two hundred forty days to build pilot. Then full order will be (180) one hundred eighty days after approval of pilot model. Total days for project build and delivery (420) four hundred twenty days.		
J. Chassis must be original equipment manufacturer and non-re-branded product.		
G.V.W.R.:		
<ul style="list-style-type: none"> • 44,000 G.V.W.R. truck (minimum), complete with dump body in accordance with the following conditions, requirements, and specifications. The following indicates MINIMUM requirements, including all genuine parts, accessories, and equipment and safety features considered standard whether mentioned herein or not 		
FRAME:		
A. The frame shall be heat treated 120,000 psi steel having a minimum resisting bending movement of not less than 2,820,000 inch/lbs. (double frames not acceptable).		
B. Continuous frame side rails shall reach sufficiently ahead of radiator to allow mounting of hydraulic pump and snowplow equipment.		
C. Bolted, tapered, riveted, or welded frame extensions are not acceptable. Steel heavy-duty 7/16" minimum extended front bumper with tapered ends. Install open mesh type aluminum tread plate between bumper and fender (Bustin NST or approved equal Ref. NJTA-1001). Back of cab to end of frame must be clear of obstructions above the frame rail.		
D. Bolt-on front tow hooks with opening through the bumper. One right and one left, within easy access to afford quick operator hook up of tow chain.		

	COMPLY	
	YES	NO
E. Hooks shall be of 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 will not fall off when no tension is present. Welded on hooks shall not be acceptable.		
F. Huck fasteners shall be used for all cross members, fuel tank, and battery box brackets		
G. Bolt-on or welded frame sections shall not be acceptable.		
WHEELBASE:		
<ul style="list-style-type: none"> The wheelbase shall be of sufficient length to properly mount a dump body 10' to 11' long and 8' wide as hereinafter specified with approximate 15" overhang from center line of hinge to end of body; approximate clear CA 99" or less. Approx. wheelbase shall be 180". 		
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. The bumper shall have means for mounting the front license plate.		
C. Two (2) steps, one (1) each side shall be constructed of 2" Bustin or Authority approved equivalent material.		
D. Steps shall be 8" wide x 8" deep. Step brackets shall be a minimum of 3/8" x 2" A36 material		
ENGINE:		
A. The engine shall be diesel powered 10.8-liter minimum, Peak HP 425 at 1500-1700 RPM electronic minimum, torque, 1560 lbs. at 1000-1300 RPM minimum. Engine must be compliant and certified to meet the U.S. E.P.A 2023 or current production year Emissions Standards without using Federal E.P.A. credits. Engine must be C.A.R.B compliant (California Air Resource Board) for New Jersey state law compliance. No exceptions for failure to comply to C.A.R.B. or Federal emission standards.		
B. The engine shall be equipped with a two-position compression engine brake, a 135-amp minimum, 12V brushless alternator (as manufactured by Delco Remy #35SI or Denso brushless or approved equal. 12V starting motor, Reference: Delco Remy #39MT H.D. with over crank protection or Denso P5.0 (No Exceptions))		
C. Fuel filter with engine cooling fluid heater and 12V pre-heater element with a weather pack connector. TO BE LOCATED OUTSIDE OF FRAME RAIL FOR EASE OF ACCESS TO CHANGE FILTER. Reference: DAVCO #382 (No Exceptions) Fuel Shutoff valve (Reference DAVCO #102008) shall be present on the inlet side of the filter housing to prevent fuel loss during fuel filter servicing. A secondary OEM filter must also be present.		
D. Tachometer with engine hour-meter. Electrical system shall be shielded to prevent interference by 2- way radio.		
E. Crankshaft PTO 1350 adapter and flange installed on front of crankshaft with clearance needed for PTO driveshaft, low oil pressure/high engine temperature alarm system and low coolant level warning device.		

	COMPLY	
	YES	NO
F. Radiator shall be aluminum tube and fin type, maximum heavy-duty size to be compatible with engine, and approved by engine manufacturer with an automatic fan, E.D.P.M. (Ethylene Propylene Diene Monomer) radiator and heater hoses with constant torque clamps. Reference: Gates Blue Stripe. Radiator shall be above crankshaft to allow for a driveshaft to connect to hydraulic pump assembly.		
G. <u>The exhaust aftertreatment system shall be right side mounted and not protrude behind the cab.</u> The exhaust pipe shall be vertical with a 180-degree heat shield made of aluminum or stainless steel and a 90-degree turn-out extending past the outside edge of the cab protector. Exhaust aftertreatment system, shall be covered by a Stainless-Steel cover on the passenger side.		
H. Engine shall be equipped with 1500 watt, 110V single-phase electric pre-heater with thermostat.		
I. Engine Coolant: Ethylene Glycol Extended Life Coolant Protection with Long Life Filter (OAT) at 50/50 mix to -34 degrees Fahrenheit		
J. Stainless Oil Pan: All hardware and fasteners shall be stainless-steel, (No Exceptions)		
TRANSMISSION:		
A. Allison Automatic Model 4500 RDS-6 with dash mounted console, a push button shift selector and an external oil cooler. The transmission dipstick shall be located under hood and all transmission cooling lines are to be stainless steel (No Exceptions)		
B. Synthetic transmission fluid shall be used and installed by OEM.		
C. Transmission Temperature Gauge		
FRONT AXLE:		
A. The axle shall be conventional or set forward type with a maximum of 30 inches from the centerline of the front axle to the front of the hood.		
B. The front axle shall be rated at 18,000 LB minimum capacity.		
C. The front axle, drag links, tie rods, and kingpins shall have grease zerks installed.		
D. Kingpin or bushings shall be grooved to permit grease flow. Sufficient tire clearance is required at maximum turning angles. Complete “Stemco” oil seal assembly, including hub, plug type window, and “Guardian” seal, or (Authority approved equal).		
E. Each unit shall receive a front-end alignment prior to delivery. Bump stops shall be set to optimum turning radius. Unitized front axle is acceptable		
F. A SET BACK AXLE IS NOT ACCEPTABLE.		
G. The steering system components must meet or exceed the design proper for the axle weight		
H. Weight capacity of front axle must be able to accommodate snowplow hitch specified and the weight of a 2000 lb. to 3500 lb. snowplow assembly.		
FRONT SUSPENSION:		
A. 18,000 lbs. capacity front suspension.		
B. Multi-leaf type front springs with shock absorbers.		
C. Spring pins shall be rubber bushed and maintenance free.		

	COMPLY	
	YES	NO
D. Front axle and suspension shall be rated to accommodate GVWR.		
E. Suspension rating shall be accomplished <u>without</u> the use of “Helper Springs” or Auxiliary Air Bags.		
REAR AXLE:		
A. The axle shall be a 26,000-lb. dual reduction with driver-controlled differential, Meritor R26-380 or Mack AR26R (No Exceptions)		
B. Ratio will be determined after final bid to achieve a 75-mph maximum speed. All rear axles must provide axle shafts with a <u>minimum diameter of 1.89” at the spline.</u>		
C. All rear axles shall have an extended breather tube to prevent debris build up from entering axle housing.		
D. Aluminum or lightweight housings are unacceptable.		
E. Axle creep rating shall be a minimum of 30,000 lbs.		
F. Axle differential switch shall be LED backlight, labeled “DIFF LOCK”. Located in Position 13. Reference drawing: NJTA-DSL01		
REAR SUSPENSION:		
A. 26,000 lbs. Multi-Leaf style rear suspension.		
B. Rear Axle and Suspension shall be rated to meet GVWR. Meritor, Mack or (Authority approved equivalent) suspension.		
LUBRICANTS:		
<ul style="list-style-type: none"> Lubricants for front axle, rear axles, and transmission shall meet, or exceed, all appropriate MIL and SAE specifications for synthetic lubricants, and shall have all plugs identified as synthetic oil or painted red. 		
CENTRALIZED LUBRICATION SYSTEM:		
A. An on-board centralized lubrication system installed on the truck chassis, dump body and tailgate. System shall supply lubrication to the following locations:		
1. All front and rear chassis suspension grease points, spring pins, spring hangers, upper and lower kingpins, tire rod ends, and drag link.		
2. Brakes – s-cam shafts and slack adjusters.		
3. Body – hood pins, dump body hinges, cylinder pins, tailgate latch, tailgate pins, auger bearings		
4. Approval of all lube points to be approved at pilot by an NJTA representative.		
B. The unit shall be operated by air or 12V D.C. and designed to utilize any lubricants of NLGI grades from #000 up through NLGI #2 with a reservoir capacity of 2 liters.		
C. Steel tubing shall not be utilized.		
D. A dash mounted light shall be installed to indicate a system error.		
E. Control unit shall be mounted under the passenger seat to allow access to the manual cycle switch. Reference: J&A Lube Central #JA KA 2-50-12 12V (or Authority approved equivalent).		
F. Vendor to provide a two-year unconditional warranty and mechanic training on the operation and testing of the system.		

	COMPLY	
	YES	NO
DRAIN PLUGS:		
<ul style="list-style-type: none"> All drain plugs for engine, axles, transmission, and hydraulic system shall be magnetic. 		
WHEELS AND TIRES:		
A. The truck shall be equipped with hub piloted 15-degree tubeless steel wheels with 5-year corrosion free warranty painted gloss black.		
B. Front Wheels- 22.5 x 9.00, 10 hole – 285.75mm bolt circle with 220mm bore, tubeless steel disc wheel rated at 10,000 lbs./4,536 kg at a maximum inflation pressure of 130 PSIG. Accuride, part number 29039 or (Authority approved equivalent) .		
C. Front Tires- 315/80R22.5 Load Range L. Reference: Goodyear WHA or Michelin XZUS2 (or Authority approved equivalent) .		
D. Rear Wheels- 22.5 x 8.25, 10 hole – 285.75mm bolt circle with 220mm bore, tubeless steel disc wheel rated at 7,500 lbs./3,402 kg at a maximum inflation pressure of 120 PSIG. Accuride, part #28828 or (or Authority approved equivalent) .		
E. Rear Tires- 11R.22.5 Load Range H. Reference: Goodyear G622; MichelinXDS2 (or Authority approved equivalent) .		
F. Wheel-Guard Separators- The wheel ends shall be equipped with the Accuride part number 5903 Wheel Guard Separator as follows: (or Authority approved equivalent)		
1. Front axle – between the wheel and the brake drum.		
2. Rear axle – between the inner wheel and the brake drum and between the inner and outer wheels.		
REAR AXLE MUD FLAPS:		
<ul style="list-style-type: none"> Black rubber splashguards (mud flaps) shall be provided behind rear wheels to meet federal regulations including 22½ degrees tangent mounting angle. Mud flap shall be mounted to the bottom of integrated body with three stainless steel bolts and locknuts 		
BRAKES:		
A. Vehicle shall be equipped with self-adjusting cam brakes (Meritor “S” Cam Q+ shoe (No exceptions) front 16½” x 6” and rear 16½” x 7” with backing plates.		
B. Full air service complete with low-pressure buzzer indicator and heated air dryer. Reference Bendix AD-IP with heater, turbo cutoff valve and coalescing filter. (or Authority approved equivalent) .		
C. Rear parking brakes shall be spring-loaded. Reference MGM, Model LTR-L3 (or Authority approved equivalent) .		
D. ABS anti-lock air brakes with Traction Control		
E. Automatic slack adjusters. Reference Meritor (or Authority approved equivalent) .		
F. Three (3) air tanks shall be included: (1) one tank driver side mounted beneath battery box, under cab two (2) tanks passenger side mounted 36" from back of cab perpendicular to frame rails.		
G. Air tanks shall be aluminum and painted black, shall include heated Bendix air brake reservoir drain valve.		

	COMPLY	
	YES	NO
H. Air pressure gauges shall be in the instrument cluster		
FUEL TANK:		
A. The fuel tank shall be aluminum or stainless steel, unpainted, with a usable capacity of 70 gallons, MINIMUM .		
B. A solid rubber barrier shall be inserted between the fuel tank and the stainless-steel mounting straps.		
C. The fuel cap shall be a minimum of 3½" in diameter.		
BATTERIES		
A. Three 1000 CCA minimum 12V maintenance-free batteries and have a one-year non-prorated warranty		
B. Protected by an offset battery box and cover with a ¼" shock pad.		
C. Cover to be tethered and constructed of aluminum		
CAB:		
A. The cab shall be galvanized steel; hood and fenders shall be fiberglass or other non-corrosive material manufacturer's standard conventional with factory installed air ride.		
B. The cab selected shall be 120" minimum standard (BBC) bumper to back of cab and shall provide room for the hydraulic control console and (NEMA) (National Electrical Manufactures Association) enclosure for electrical component connections from upfitter.		
C. The engine components facing wheel areas, on both sides, shall be shielded to protect the engine, fan and radiator from stones, water, and debris.		
D. A stainless steel or approved grill and stone guard to fully protect radiator to be provided.		
E. Any protective system shall be prior approved by a NJTA representative.		
F. The Cab, hood and front fenders shall be painted Omaha Orange with an approved Original Equipment Manufacturers factory finish.		
1. EXTERNAL COMPONENTS:		
A. Safety Handles – Grab handles shall be supplied on all cab entry locations. Three points of contact shall be achievable at all cab entry locations. Right and left grab handles to be provided on inside of door panel and on exterior of cab. All exterior grab handles shall be furnished with non-skid paint to provide "optimum safety" for field personnel (non-skid tape is unacceptable)		
B. Fiberglass, tilting one-piece hood. Fenders shall be part of tilting hood. Front fenders shall cover the width of the front tires. Grille shall be fixed. Hood shall not come in contact with plow frame or wing plow frames. Must allow appropriate access to engine with hood open. Access to front-end hood tilt handle shall not be blocked		
C. Clear or smoke, hood mounted air deflector to be manufacturer's standard full width for the truck model		
D. Minimum 1 air horn (Roof mounted) with snow shield, locations to be approved by Authority representative.		
E. Windshield shall be heated , two-piece construction and shall be tinted.		
F. Tinted safety glass throughout the cab.		

	COMPLY	
	YES	NO
G. Steps: Drivers and passenger entrance steps: Open mesh self-cleaning aluminum or stainless-steel external safety steps shall be at least full length between the outside edges of the stainless-steel tank straps. The steps shall be progressive. (Overlay is not acceptable). Step design material must be the same, both left and right side. Reference: Bustin No. NST4 full size or (Or Authority approved equivalent) . Top of the first step shall be approximately 18 inches above the ground.		
H. Dual windshield wipers , arctic type with J hook style wiper arms and the heaviest arms, linkages, and motor available. Wipers shall be minimum 2-speed electric with intermittent feature		
I. Washer system shall be electric. Minimum capacity of four (4) quarts of washer fluid and shall be filled with an anti-freeze type solvent. Must be mounted back of cab.		
J. Driver's and passenger side power adjustable and heated mirrors with dimensions of 6" x 16" minimum, West Coast style, or manufacturers' standard heavy duty with breakaway arms.		
K. There shall also be heated convex mirrors, 8" round on both sides.		
L. A blind-spot elimination mirror shall be mounted on each front fender with Stainless steel hardware, and it shall be 10" minimum diameter and heated.		
M. Blind sport mirror shall be a conventional convex mirror and shall not be of the half-round cross view type.		
N. Fender type washers stainless, or aluminum, with rubber pads to be placed on both sides of the fender shall be included.		
O. Pedestal system shall be single, double, or triple mounting assemblies Mirrors and arms shall be stainless steel or composite with mirror glass shock mounted and sealed.		
P. There shall be a lighted switch for the heated mirrors mounted within accessible reach of the operator.		
Q. The heating element shall affect a minimum of 95% of the rear surface on the glass.		
R. The wires shall be fitted in such a way that unplugging wire leads will allow replacement of the mirror glass/element		
2. INTERNAL COMPONENTS:		
A. Air Conditioning: Highest output available as OEM option. Minimum 18,800 BTU/hr. required		
B. An infinitely adjustable tilt/telescoping steering column with manufacturer's standard steering wheel.		
C. AM/FM radio with weather band, Bluetooth with steering wheel switches (No Exceptions)		
D. All controls and switches shall be properly identified.		
E. Brake pedal and throttle shall be suspended FLOOR MOUNT NOT ACCEPTABLE.		
F. Cab floor covering shall be heavy-duty rubber with closed cell rubber backing		
G. Cruise control with steering wheel switches (No Exceptions)		
H. Cup holder in the cab within easy reach of the operator.		
I. Dome light shall be provided. Dome light to be activated by both doors.		

	COMPLY	
	YES	NO
J. Dual sun visors.		
K. Deluxe fresh air hot water heater and defroster , manufacturers highest output with 3 function venting. (Floor, Dash, and windshield)		
L. Drivers and passenger's side <u>windows and door locks shall be power.</u>		
M. Driver's seat shall be high back adjustable Bostrom air 915 Series with lumbar support or National 195 Series with lumbar or DuraForm Air Command Series (fabric form cushions with lumbar support), with body cloth insert and three-point retractable seat belt (or Authority approved equivalent) . There shall be no inside armrest on the driver's seat plus an outside armrest installed on the seat or the driver's door. Color coordinated to cab interior. Reference: BOSTROM AIR 915 Talladega or Authority approved equal . Individual passenger seat, high back fixed, non-suspension type with cloth insert and three-point seat belt or (or Authority approved equivalent) , color to match. (Reference: BOSTROM 900R)		
3. ELECTRICAL:		
A. A completely designed and coordinated 12V, negative ground system shall be provided; computer voltage may vary.		
B. The system shall be designed such that all components are permanently grounded (-) and positively (+) energized where possible.		
C. All components must be selected to meet severe service.		
D. All wiring shall have lug type terminal ends or push-on type with locking modular plugs.		
E. The circuit breakers shall conform to the (Society of Automotive Engineers) SAE J553 standard, type III, manual reset, and type I automatic reset mounted in a gang type terminal block inside the cab and must be readily accessible for resetting.		
F. All fuses shall conform to the (Society of Automotive Engineers) SAE J1284, J2077 and J554 standards.		
G. All terminals and splice clips shall conform to the (Society of Automotive Engineers) SAE J163 standard.		
H. <u>THE USE OF SCOTH-LOC OR EQUAL CONNECTORS WILL NOT BE ACCEPTED. (NO EXCEPTIONS)</u>		
I. All high currents shall be distributed through power relays and installed in each circuit		
J. It is recommended that each circuit have both primary and secondary protection devices		
K. The primary device will be an automatic reset circuit breaker, or a manual reset circuit breaker.		
L. The secondary protection device may be a circuit breaker or a fuse. It is preferred that the protection device be as close to the power source as practical.		
M. The circuit protection shall provide both high and low resistance short circuit protection, while at the same time allowing normal overload conditions (for example, light bulb inrush current or motor start up).		
N. Each circuit shall have the proper size wiring for the protection device, and the load draw shall not exceed 80% of the protection device		

	COMPLY	
	YES	NO
O. All wiring harnesses shall have protective coverings to provide extra protection against operating and environmental conditions.		
P. The harness coverings may include tape, plastic sleeve or conduit, braid, nonmetallic loom, or other suitable shielding or covering.		
Q. The edges of all metal members through which the harness passes shall be de-burred and rolled or bushed with suitable grommets.		
R. The wiring harnesses shall be secured or supported at intervals no greater than 18” to prevent rubbing or chafing due to wire movement.		
S. Wiring shall be located to afford protection from heat, road splash, stones, abrasion, grease, oil, and fuel.		
T. Various types of plastic and non-corrosive clips, clamps and ties shall be used to support wiring harnesses.		
U. All external terminal connections shall be soldered and sealed with heat shrink or other approved coatings.		
V. The OEM shall provide in-dash switches as indicated on drawing NJTA-DSL01 (Dash Switch Locations) and two spares complete with circuit protection, wiring and a junction block for the body builders hook-up in cab. All switches shall be within easy reach of the operator.		
W. The wiring for the snowplow lights shall terminate in the grille area for the body builder’s hook-up of the snowplow lights; the wiring shall have an extended lead, minimum 24”.		
X. Note: The electrical wiring routing shall be of professional quality. All electrical connections shall have ample di-electrical coating during installation. <u>OEM body builder plug shall terminate at a location inside the cab mounted NEMA (National Electrical Manufactures Association) junction box. All wiring shall be home runs to cab and organized in a junction box Intergra Enclosures Part # H141206HFLL. (NO EXCEPTIONS). Mounting hardware and brackets shall be 304 stainless steel and shall be removable from outside of the box. A wiring schematic shall be adhered to the inside of the box lid. Extra wire and cable shall be present to allow the box to be removed and placed on the passenger seat.</u>		
SAFETY EQUIPMENT:		
A. Supply properly rated and mounted UL fire extinguisher .		
B. Supply three safety reflective triangles in a protective case.		
C. Supply two-wheel chocks and mount on driver’s side front bumper.		
D. Locations for Safety equipment approved at time of pilot.		
BACK UP ALARM:		
• Alarm shall be switchable from 87 to 112 decibels. Reference Preco-45AA with unlimited lifetime warranty, mounted to inside of rear license plate mount		
PAINT:		
A. The chassis, front bumper, snowplow attachments, frame, and aprons shall be finished black.		

	COMPLY	
	YES	NO
B. The cab is to be Omaha Orange, DuPont #31 for shade only. Cab and chassis paint shall be a base coat/clear coat manufacturer’s standard professional quality polyurethane with two coats of primer (2 MIL minimum) under base coating. All steel parts are to be primed and painted (all sides) to prevent rusting.		
RUSTPROOFING:		
<ul style="list-style-type: none"> The complete chassis and undercarriage inclusive of the cab bottom, axles, and complete frame rails, as well as, back side of front bumper, snowplow attachments, engine underside and transmission. Particular attention should be given to all hydraulic fittings and any steel or aluminum components. Reference: Rhomar RH-415 Armour-Seal or (Authority approved equal) 		
HEAVY DUTY TRAILER TOW PACKAGE:		
A. A Holland PH-760 pintle hook shall be installed at 30 inches above ground on a 3/4" steel plate properly supported to frame and cross member. (or Authority approved equivalent).		
B. The truck shall be equipped with a full trailer air brake package.		
C. The controls are to be in the cab, hand control valve for trailer only.		
D. Two D-rings shall be installed on the rear of the hitch plate for trailer safety chains.		
E. The glad hand connections shall be located at the rear of the truck and located to industry standards (Emergency-Red on driver’s side, Service-Blue on passenger side).		
F. Glad hands shall be 180-degree swivel with dust cap. Reference: Red (emergency) – Sloan 441105; Blue (service) – Sloan 441102. (No exceptions.)		
G. There shall be two 7-pole trailer receptacles mounted at rear of truck.		
H. The receptacles shall be non-conductive corrosive resistant solid pin Phillips Model 16720 with boot #15740 or (Authority Pre-approved equal) and permanently labeled using a laser cut .250” min. Stainless Steel plate with the words Air and Electric removed and welded to the corresponding locations. After painting, the stainless-steel plates shall be sanded to make labels visible.		
I. All wiring will be home runs to cab.		
J. No junction boxes shall be exposed to the elements		
K. One shall be wired to current standards and permanently labeled (AIR). Reference: Drawing TCAABC-2018		
L. The other shall be wired for electric brakes with the center post wired to an electric brake controller mounted on dash and labeled (ELEC). Reference: Drawing 7PTCEB		
M. This plug will be connected to a TEKONSHA PRODIGY part #90885 electric brake controller or (Authority approved equivalent).		
N. Lights will be wired for a two tail-light system.		
O. All wiring will be home runs to cab. No junction boxes shall be exposed to the elements. Reference drawing: NJTA-1002		

SC-2022 SAFETY LIGHTING AND CAMERA SYSTEM

	COMPLY	
	YES	NO
BACKUP CAMERA		
A. The Backup camera system shall include a 7” Heavy duty waterproof monitor that supports up to 4 wired cameras, 6 triggers, and capable of displaying single, split screen, or quad view images. Screen to be mounted with a VOSHD6MNT double knuckle Monitor mount and be compatible with all voyager cameras. (or Authority approved equivalent).		
B. The camera shall be a black Voyager VCMS20B CMOS block style with night vision mounted in the MSF5001 Stainless steel Camera box with 6” adjustable mount. (or Authority approved equivalent).		
C. The camera system shall also have the MSF8470037000-LR-A camera wash kit with 1 nozzle for single camera cleaning. (or Authority approved equivalent).		
D. The system will have a supplied washer pump installed in the factory washer fluid reservoir at the level of 1/3 of the total capacity of the washer tank so that the camera wash system runs out of fluid prior to the truck’s windshield wash system.		
E. The system will include all wires, tubes, and lines to make the system operational.		
F. All wires shall be contained in a loom and all connectors shall have dielectric grease.		
G. The mounting location of the Screen and Backup Camera will be determined at the mockup inspection.		
H. The system shall have the ability to be connected to a DVR for recording purposes.		
LIGHTING		
A. All upfitter lighting shall be LED equipped		
B. This lighting package shall include all necessary cables to connect power supply to the lights. All lighting connections shall use weatherproof connectors and cables shall be home runs to the in-cab junction box or flash controller (No splicing will be permitted). Strobe lights may be internally controlled or controlled by a central flash control. All hardware or brackets used for light mounting shall be stainless steel for corrosion resistance.		
C. The Upfitter lighting system shall have a lifetime warranty on the cables, lights, and any strobe control components.		
D. All lighting components must comply with all federal and state laws and be supplied by a manufacturer that has a dealer network throughout the state of New Jersey. (Ref. Federal Signal, Grote, Truck-lite, Whelan)		
CAB SHIELD FRONT AND SIDE FACING STROBE LIGHTS		
A. Two Forward facing and two side facing 6” oval grommet mounted amber strobes shall be installed horizontally in the cab-shield (4 total). On the outside edge of the forward facing 6” oval there shall be a 2” grommet mounted amber led marker light.		

		COMPLY																									
		YES	NO																								
<p>B. Amber LED light heads shall be a minimum of 12 square inch oval type with hard coated lenses and shall be SAE J595 compliant and meet or exceed Type 1 candela output:</p> <table border="1"> <thead> <tr> <th>Type 1</th> <th>20° L</th> <th>10° L</th> <th>V</th> <th>10° R</th> <th>20° R</th> </tr> </thead> <tbody> <tr> <td>5° U</td> <td>117</td> <td>191</td> <td>844</td> <td>191</td> <td>117</td> </tr> <tr> <td>H</td> <td>270</td> <td>421</td> <td>2400</td> <td>421</td> <td>270</td> </tr> <tr> <td>5° D</td> <td>117</td> <td>191</td> <td>844</td> <td>191</td> <td>117</td> </tr> </tbody> </table> <p><i>Chart Key—The preceding graph (Type 1) represents the minimal acceptable direct and off angle candela values, L-Left, R-Right, U-Up, D-Down, V-Vertical, H-horizontal and °-Degree.</i></p>		Type 1	20° L	10° L	V	10° R	20° R	5° U	117	191	844	191	117	H	270	421	2400	421	270	5° D	117	191	844	191	117		
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<p>C. Power and ground wiring cable for the Amber Beacons shall be type “SO” cord and sized to sufficiently handle current demands of the circuit load. The cable assemblies shall originate at the body builder harness at the cab interior and be routed separately to the left and right strobe light assemblies, the routing shall follow along the same routing path as the body side marker lights, continue upward inside the body bulkhead corners, and will terminate at each strobe assembly with a Deutsch (NO EXCEPTIONS) weatherproof two conductor plugs and sockets treated with dielectric grease. No other splicing or connections shall be acceptable.</p>																											
D. Placed in position (1) of Dash switch layout																											
E. 20A circuit protection, Ignition powered																											
F. Latching On/Off switch																											
G. Reference Drawing: NJTA-DSL-01 and NJTA-BBC01																											
H. The switch shall be backlit and labeled FRONT STROBE.																											
DUMP BODY REAR AMBER WARNING LIGHTS:																											
<p>A. Located at the rear facing corners of the dump body without interfering with DOT lighting requirements shall be four (4) light heads installed, two (2) on each side of body corner posts with a Stop/Turn/Taillight in between. Each mounting shall be recessed in a shock resistant grommet and each light head shall have a 3½" pigtail with Deutsch (NO EXCEPTIONS) weatherproof plug connector treated with dielectric grease.</p>																											
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<p>C. Light heads shall display diagonally synchronized double flash signals by way of synchronization wiring and light head programming. Mechanical, electronic flasher or module mechanisms are not acceptable.</p>																											

	COMPLY	
	YES	NO
D. The harness wiring shall be routed to prevent damage, terminate at each light head with a Deutsch (NO EXCEPTIONS) weatherproof plug and socket connector treated with dielectric grease and originate in the cab at the body builder harness. No other splicing or connections shall be acceptable.		
E. Placed in position (2) of Dash switch layout		
F. 20A circuit protection, Ignition powered		
G. Latching On/Off switch		
H. Reference Drawing: NJTA-DSL-01 and NJTA-BBC01		
I. The switch shall be backlit and labeled REAR STROBE		
SNOWPLOW LIGHTS:		
A. Snowplow lights shall be REF: Truck-Lite model 80990 heated LED plow lights (or authority approved equivalent).		
B. Bracket design shall be constructed of Stainless steel and mounted to the truck hood. A formed welded tow piece 16"x2" x.185" bracket system shall be provided to accommodate high profile snowplows. Bracket shall provide light base 78" minimum height from ground.		
C. Brackets shall be designed/constructed to provide sustained support of the light assembly while offering minimum vibration/movement with rubber isolation.		
D. The height and width of the brackets shall be governed by the application and shall meet all Federal and State lighting regulations.		
E. The location of snowplow lights to be determined on the pilot model.		
F. A latched "Plow Light" switch shall be incorporated with the chassis multiplexed switch panel and shall include the following features: 20-amp circuit protection, ignition powered		
G. Placed in position (3) of the auxiliary switch pack		
H. Reference Drawing: 128 Dashboard Layout & 128 Body Builder Connector		
I. The switch shall be backlit and indicate the plow lights system by name or symbol.		
J. While on, the OEM park, turn, high and low beam light switch operation shall operate the plow lights.		
K. While on, the chassis headlights shall not operate.		
L. Returning the switch to the off position shall return the chassis headlights back to normal operation.		
M. There shall be no splices (must have continuous feed from lights to cab)		
N. Original chassis high beam indicator shall function when plow lights are in high beam mode.		
O. Placed in position (8) of Dash switch layout		
P. 20A circuit protection, Ignition powered		
Q. Latching On/Off switch		
R. Reference Drawing: NJTA-DSL-01 and NJTA-BBC01		
S. The switch shall be backlit and labeled PLOW LIGHTS		
SPINNER LIGHTS:		
A. Two (2) LED PAR36 REF: Whelan # PFBS12 (or Authority approved Equivalent), 12 diode 1.000 lumens 12v 1.7-amp stud/ swivel. Installed on each side, location approved at pilot.		

	COMPLY	
	YES	NO
B. The spinner lights mounting (location shall be determined during pilot meeting) to illuminate the salt discharge from the spinner		
C. The PAR36 illumination light shall be mounted within a rubber housing that utilizes all stainless-steel mounting hardware.		
D. The PAR36 work illumination light shall come complete with 20' of 2/C 18-gauge cable with weatherproof connector and be operated by an independent dash switch.		
E. The latched on/off labeled "Spreader Light" switch shall be incorporated with chassis auxiliary switch panel placed in position (4) of the switch pack, backlit and indicated by name or symbol.		
F. Placed in position (4) of Dash switch layout		
I. 20A circuit protection, Ignition powered		
J. Latching On/Off switch		
K. Reference Drawing: NJTA-DSL-01 and NJTA-BBC01		
G. The switch shall be backlit and labeled SPINNER LAMP		
DAYTIME RUNNING LIGHTS		
A. Daytime running lights are to be provided, OEM or approved equal		

SPH-2022: SNOW-PLOW HITCH

	COMPLY	
	YES	NO
SNOWPLOW HITCH:		
A. This specification describes a heavy-duty side plate truck hitch for mounting on Class 8 trucks for use with crankshaft driven hydraulic pump and Drop Pin loop equipped plows		
B. The hitch shall be designed 41.25" wide. The appropriate width such that the side plates used to attach it to the truck attach directly to the outside of the front frame rail extensions of the specific truck model it is mounted to. Any shims used to ensure a tight fit between the hitch side plates and the truck frame rail shall not exceed 3/16" total thickness on each side of the truck frame.		
C. The main vertical members of the truck hitch shall be made from steel structural tubing, minimum 4" x 4" x 3/8" wall thickness. The tubing shall be one continuous piece, from the top of the truck hitch to the bottom and capped at ends		
D. The upper horizontal member that the lift arm attaches to shall be fabricated from minimum 3-1/2" x 3-1/2" x 1/2" steel structural angle. The lower horizontal member that the base of the lift cylinder attaches to shall be made from minimum 4" x 4" x 3/4" steel structural angle and shall be oriented with the apex of the angle facing directly forward, so that the primary force from the lift cylinder is nearly parallel to one of the 4" legs of the angle.		

	COMPLY	
	YES	NO
E. Automatic coupling of the plow hitch portion will be accomplished by a manual pin and lever that can be secured after the hitch has been coupled. A spring-loaded lock pin shall prevent unwanted locking in the open position or hold the latch closed. It shall have a cross section of 12" square inches and lock automatically when coupling the truck and plow portions. It will allow plow misalignment of a range of 6" in height and 7" left to right of center.		
F. The truck hitch shall include a telescoping lift arm. For maximum safety, the lift arm shall be designed to "fold flat" in a vertical position when the truck hitch is not in use. The hitch shall be designed so that if the hitch lift cylinder is accidentally actuated while the hitch arm is folded down, no damage shall occur to the hitch or truck.		
G. The telescoping lift arm shall include a 4" x 4" x 3/8" square outer tube, a 3" x 3" x 3/8" inner tube, and a minimum of (5) telescoping positions. The outer end of the inner tube shall include a 40-degree bent chain anchor of 1/2" steel with 3 chain locking slots, which accommodate both 3/8" and 1/2" lift chains. The outer tube weldment shall have a minimum width of 20" where it attaches to the main portion of the truck hitch, and shall include a full-width, welded top plate of minimum 3/16" steel. The lift arm shall attach to the main portion of the truck hitch using minimum 1-1/4" diameter cold-finished steel pins.		
H. The ears which attach the hydraulic lift cylinder to the lift arm and the main portion of the hitch shall be minimum 3/4" thick, or minimum 1/2" thick with 1" long fully welded steel bushings with minimum 31/64" wall thickness		
I. Hydraulic lift cylinder shall be 4" bore x 2" diameter rod x 10" stroke, with nitride treated rod for corrosion resistance and chip resistance. Cylinders pins shall be minimum 1" diameter cold-finished steel.		
J. The hitch shall be attached to the truck by two side plates, minimum 1/2" thick, with a minimum of (8) 5/8" Grade 8 and (2) 3/4" Grade 8 bolts per side. Attaching bolts shall have hardened washers on each side and be secured with Grade C top lock nuts.		
K. Each cheek plate shall have 1/4" x 1 1/2" flat stock welded as diagonal bracing.		
L. There shall be 1/4" x 2" angle installed as shear blocking		
M. There shall be 1/4" x 2" angle by full width as cross bracing		
N. There shall be 3/8" x 6" gussets to reinforce lower horizontal member.		
O. All hardware in the entire hitch shall be zinc plated for corrosion resistance.		
SURFACE PREPARATION AND PAINT:		
A. Unit shall be cleaned of oil, grease, mill scale, coatings, corrosion products, and other foreign materials using a commercial blast cleaning process.		
B. All exterior metal shall be painted using DuPont Dulux Black Enamel #93-005 or Authority approved equivalent		
C. All coatings shall be lead free.		

CHS-2022: CENTRAL HYDRAULIC SYSTEM

	COMPLY	
	YES	NO
CENTRAL HYDRAULIC SYSTEM:		
A. The hydraulic system shall be of the central type; all hydraulic functions are to be powered hydraulically using a single, pressure and flow control (load sensing) pump. Multiple hydraulic functions such as: auger/conveyor, spinner, body lift/lower, plow lift/lower and plow power reverse must be capable of functioning simultaneously without stopping the action of any one or more hydraulic functions.		
B. All electrically operated solenoid valves will have a neutral or de-energized position that automatically positions the pump to a zero flow and low pressure stand by condition. The hydraulic system shall be of the pressure port blocked closed center design. The plow angle circuit shall have a motor-spool control valve to allow for latching plow spring lock. Entire system (hydraulic and electrical) shall have a two-year warranty.		
C. To ensure complete system compatibility, the joystick controller, spreader controller, hydraulic valve, hydraulic pump, armrest, and pre-wet system shall be from a single manufacturer. Items that are manufactured by one entity and “branded” with another manufacturer’s name shall not be accepted as being from a single manufacturer. Manufacturer shall be both (International Organization for Standardization) ISO 9001 and 14001 certified.		
D. All up fitted fasteners (nuts, bolts, pins, clevises, cotter keys, fittings, hose clamps, and brackets, etc.) shall be stainless steel. No black iron pipe or fittings to be used in the plumbing of the hydraulic system.		
E. The hydraulic system shall be capable of running three (3) or more hydraulic functions simultaneously without inhibiting the action of the other.		
HYDRAULIC PUMP:		
A. The pump shall be a direct driven, heavy-duty, pressure/flow compensated, load sensing variable displacement design Reference: Bosch Rexroth R902534642 (or Authority approved equivalent). Output flow shall be no less than 48 GPM at 1800 engine RPM. No less than 6.1 cubic inch displacement is acceptable.		
B. Input shaft of pump is of keyed or splined design to standardize mounting configuration.		
C. A DIN 2353 standard pressure test point is to be installed directly to the pump port plate. This test point will be used for attaching a pressure gauge for troubleshooting and verifying pressure settings.		
D. The test point shall be constructed of corrosion resistant materials.		
Note: Body up-fitter shall adjust pump standby and compensator adjustments prior to delivery. Pump standby shall be set to 350 psi and the pump compensator shall be set to 2000 psi.		
PUMP CONTROL:		
<ul style="list-style-type: none"> • The pump control through hydraulic system logic must automatically select and adjust discharge pressure and flow for the highest load demand regardless of the number of functions engaged or the engine RPM. 		

	COMPLY	
	YES	NO
PUMP DRIVE:		
A. The pump shall be driven by the front of the engine crankshaft using a flexible driveline of the U- joint type and be installed and in alignment as per manufacturer's specifications.		
B. The driveline shall be of the solid stub shaft design and constructed of C-1137 C.D. bar stock. The 1.375-16 splined section of the stub shaft must be hardened to RC48-53 surface hardness.		
C. The pump driveshaft shall be connected to the pump with the following hub and flange parts so the driveshaft can be separated from the pump (Spicer 2-1-1313-4 flange hub, Spicer 2-2-479 Flange yoke, Spicer 5-1310-1X U-joint).		
D. The complete driveline must be rated to accept a working torque of a minimum of 130 foot-pounds.		
E. If equipped with grease fittings, fittings shall be positioned for easy access. <u>Vendor shall supply NJTA with a detailed drawing of pump shaft and manufacturers' part numbers at time of bid.</u>		
HYDRAULIC OIL SUPPLY TANK/VALVE ENCLOSURE COMBINATION:		
A. The hydraulic reservoir shall have a minimum 40-gallon capacity and be constructed of 11-gauge 304 stainless steel enclosure and be internally baffled. Reservoir and enclosure shall be made as one unit.		
B. The valve/tank combination unit shall be mounted to the frame rail of the vehicle and shall be mounted in such a manner as not to transmit any torsional loads.		
C. The design of the enclosure shall allow for easy access to the control valve without the use of tools. The electronic control modules and mount shall be mounted in such a way that they can be removed from the valve enclosure for easy access to the valve sections.		
D. The overall height of the valve/tank unit shall not exceed 27.6" including any filters, fillers, or fittings		
E. The overall width along the frame rail of the chassis shall not exceed 39½".		
F. The valve/tank unit shall not extend more than 30.27" off the chassis frame rail.		
G. All hydraulic connections shall be made directly to the control valve without the use of bulkhead connections.		
H. The fill port of the reservoir shall be accessible without first having to remove any covers. Hydac Vent Filter MPN# 1281393 will be installed on the tank top (or Authority approved equivalent).		
I. On the outboard side of the reservoir there shall be a combination level/temperature gauge.		
J. Valve enclosure shall have a permanent decal affixed to the opposing wall with a valve section schematic.		
K. Reservoir shall have a dedicated clean-out opening of not less than 7½" with a <u>stainless-steel cover</u> . The cover shall be sealed with an O-ring seal. There shall be a 2.5" brass shut-off valve plumbed to the suction port of the tank. Reservoir shall have a 10-micron in-tank return filter sized to allow a minimum of 50 GPM. There shall be a low oil sensor mounted in the tank for use with the low oil shut down system.		

	COMPLY	
	YES	NO
L. Reservoir shall be equipped with magnetic drain plug.		
M. Note: Any unit submitted for bid shall have undergone Finite Element Analysis (FEA) testing to ensure the structural integrity of the unit.		
N. Note: To keep the hydraulic valves accessible, no items are to be installed in the valve enclosure that are not part of the hydraulic valve system.		
O. <u>Valve enclosure shall be mounted on the driver's side behind cab unless otherwise noted in the prebuild.</u>		
HYDRAULIC HOSES:		
A. All hydraulic hoses shall meet or exceed specifications. Each hose assembly shall be cleaned of debris and fitted with JIC swivel connectors on ends where connection to system component is made, except for the suction hose.		
B. All pressure line hoses shall meet or exceed SAE specification 100R16 and shall be Gates Mega-flex M2T high pressure hose (or Authority approved equivalent) for sizes up to and including 1" ID.		
C. The suction hose is to be 2.5" nominal I.D. SAE specification 100R4 braided fiber, spiral wire reinforced, rubber-covered hose with replaceable bolt-on type fittings.		
D. All hydraulic hoses are to be fully installed and ready for operation. Spreader control valve pressure lines and reservoir tank return line to be manifold mounted at center of frame rear cross-member.		
E. These lines to be equipped with complete 5100 series Aeroquip quick disconnects and metal cap and plugs. (or Authority approved equivalent).		
F. Galvanized or black iron pipe fittings and connectors are unacceptable.		
G. All fittings and connectors shall be of the steel type designed for hydraulic system use. Pipe thread ported components and connectors shall be used only when the specific component is not available with SAE or JIC porting		
H. All pipe thread connectors that are used are to be coated with liquid Teflon pipe sealer before assembly; Teflon tape is unacceptable. Hoses run to the front of truck chassis for snowplow functions shall be manifold mounted behind the front bumper with sufficient access for pump assembly service and snowplow hitch installation		
I. These lines shall be equipped with complete 1/2" "Aeroquip" Model 5100 Series quick disconnects (coupler and nipple to be supplied) and metal caps and plugs.		
J. Any hydraulic line run longer than 2' along the length of the chassis shall be stainless tubing excluding suction line from tank reservoir to hydraulic pump. All hydraulic lines shall be routed and clamped with rubber lined two-bolt type HYCON stainless and composite clamps (no steel), with type 304 stainless steel bolts and positioned with maximum available clearance from chassis exhaust system, wear points and service items such as engine oil/fuel filters, etc.		
K. Any hydraulic lines located within 10 inches of exhaust system shall be heat shielded.		
L. Note: All hose routing shall be of professional quality, and it is the responsibility of the up fitter to properly size hoses.		
M. Never seize shall be applied to all quick connect fitting threads.		

	COMPLY	
	YES	NO
N. Hoses must be protected from wear/chaffing in places where they may come into contact of the surroundings (these areas will be determined on the pilot inspection).		
FILTRATION		
Note: The hydraulic system will have two filters, pressure and return as specified below:		
A. The hydraulic return filter assembly shall consist of an in-tank return filter housing with a 10-micron absolute rated filter element.		
B. The housing shall have an electrical filter condition indicator that will activate a light on the in-cab console when the filter is clogged.		
C. Return line filter housing: reference Bosch Rexroth# R987463649. Return filter element: reference Bosch Rexroth# R928005927. (or Authority approved equivalent).		
D. The hydraulic pressure filter shall consist of an in-line pressure filter housing, rated to 3600 psi and a flow rate of 87 gpm, with a 10-micron absolute rated filter element. The housing shall incorporate a visual filter condition indicator.		
Note: Pressure filter housing: reference Bosch Rexroth# R928030734. (or Authority approved equivalent). Pressure filter element: reference Bosch Rexroth# R928006863 (or Authority approved equivalent).		
HYDRAULIC VALVES		
A. All the central hydraulic system valving shall be of mobile design made to withstand exposure to de-icing chemicals and severe weather conditions and shall be mounted in a watertight enclosure. Valving shall be Rexroth M4-12/2X horizontally stackable with power beyond (or Authority approved equivalent) . Each function shall have its own valve section. Hybrid or aluminum manifolds shall be unacceptable.		
B. Each valve section shall have a built-in flow and pressure compensator to allow simultaneous operation regardless of any other system function. Directional control valves shall be positioned within the assembly by order of flow/pressure to minimize overall differential pressure drop. All function controls shall utilize PWM proportional solenoid valving. All sections are to have control solenoids, manual overrides, and stroke limiters.		
C. All valving shall be in one main valve assembly. Multiple valve assemblies are unacceptable.		
D. Dump body valve shall allow an empty body to retract in 20 seconds or less.		
E. Valve shall have a pressure/temperature transducer mounted in the valve inlet so that the system pressure and temperature can be displayed on the spreader controller screen.		
F. The Rexroth M4/12-2x valve must include the following sections: Top Ported Inlet (or Authority approved equivalent)		
G. DA Electric Proportional Hoist w/A Port LS Pressure Limiter to 1200 psi		
H. DA Electric Proportional Plow Up/Down		
I. DA Electric Proportional Plow Angle		
J. DA Electric Proportional Auger w/Reverse		
K. SA Electric Proportional Spinner		

	COMPLY	
	YES	NO
L. SA Electric Anti-Icing		
M. SA Electric Proportional Pre-Wet Power Beyond Outlet		
N. DA Electric Proportional wing Plow Up/Down-when equipped with wing option		
O. DA Electric Proportional Wing Plow In/Out- when equipped with wing option		
P. Sections are listed outer to inner when mounted on the truck and the location of each valve and its function shall be listed with a decal positioned on the inside of the enclosure vertical wall.		
Q. Reference additional valve sections needed for optional equipment.		
ELECTRONIC JOYSTICK CONTROLLER		
A. Electronic Joystick/Armrest controller shall be a Rexroth CS-150 (or Authority approved equivalent).		
B. The control of all cylinder functions such as body, plow, wing plow, etc. shall be controlled by a single 3-axis multi-function joystick mounted to a padded armrest and are to be operated with a gloved hand .		
C. The armrest unit shall be pedestal mounted and have both a height and swivel adjustment.		
D. The distance from the cab floor to the top of armrest shall be adjustable from 23” to 26”. The dimension from the back of the cab to the back of the armrest should be approximately 13”.		
E. Final approval of location and design to be approved during the pilot build process.		
F. Pedestal shall be firmly mounted in such a way that it does not contact either driver or passenger seat and is not mounted on the transmission access panel.		
G. The width of the armrest unit shall not exceed 6.25”.		
H. The armrest shall have accommodations for twelve rocker switches or dual function indicator lights. The armrest shall have a mounting location for an optional six-switch add-on module. Three rocker switches to be installed and labeled Aux 1, Aux 2, Aux 3, and be wired into the enclosure between the seats.		
I. The joystick shall have a Deadman trigger that serves as an electrical interlock to prevent the unintentional movement of any function. No function shall activate unless the Deadman trigger is activated.		
J. The joystick shall have six pushbuttons on its face for activating the following: power float, dump body mode, plow mode, body height limit override, spreader pause. Final button configuration shall be approved by the NJTA Automotive Fleet Division personnel .		
K. The armrest shall have the following indicator lights and switches: power switch, body up indicator light (red), low oil indicator light (red), change filter light (red), auger jam indicator light (red), and low oil override (amber).		
L. The joystick shall interface with the spreader controller and give both visual and audible – human voice – indications of joystick operating mode.		
M. Anytime the Deadman trigger is activated the controller screen shall automatically change to a joystick screen that gives a visual representation of the joystick layout. The joystick screen shall also give a visual representation of any active axis.		

	COMPLY	
	YES	NO
N. The joystick unit shall use a voice feedback system that will announce to the operator in which mode of operation the joystick is.		
O. Anytime the Deadman trigger is activated, or a mode button is pushed the controller shall announce, in a human voice, the joystick operating mode.		
P. The joystick shall have adjustable minimum and maximum output current settings for each function. The adjustment of the minimum and maximum settings shall be accomplished onscreen in the controller programming mode. The use of any kind of tool or external programming device to set the minimum and maximum joystick outputs shall be unacceptable.		
Q. The armrest shall have a Hydraulic System Depressurization Function Switch. When the depressurize switch is latched and the engine running, the operator shall be able to select and depressurize a hydraulic circuit (plow for example) from the operator's seat. Any residual pressure between the mobile control valve and the implement shall be dissipated to near zero to facilitate the easy removal of implements with quick disconnects.		
R. The armrest unit shall have accommodations to plug in a secondary remote joystick for "wing man" operations. The armrest shall include a bracket for stowing the secondary joystick.		
S. Whenever a secondary remote joystick is connected to the armrest, the driver of the vehicle shall be able to give control to or take control from the "wing man".		
LOW OIL SHUT DOWN		
A. A single, normally open, two-position, two-way poppet type solenoid valve (reference: Bosch Rexroth 142246) must be mounted directly to the hydraulic pump discharge port in such a way as to stop all oil flow to the hydraulic system when energized. (or Authority approved equivalent)		
B. The solenoid valve must be wired directly to an in- tank mounted level indicator.		
C. The level indicator shall be of the float type and mounted from the top of the reservoir.		
D. When the float switch contacts close, the shutdown valve blocks pump flow and an enunciator on the main control will be activated.		
E. The momentary switch shall be mounted in the main control console for low oil shutdown override.		
F. This switch shall be wired in such a way as to de-energize the system shutdown to facilitate fault-finding and equipment stowing.		
LOW OIL SHUTDOWN OVERRIDE		
A. Rocker type/momentary design/amber lens. This switch allows operator or maintenance personnel to operate hydraulic system in case of low oil.		
BODY LIMITING SWITCH		
A. There shall be a proximity limit switch installed that can be set to stop the dump body from being raised past a height of 10' to 12'6". There shall be an adjustable arm/tab to set height of body Reference: IFM part #IG6052 (or authority approved equivalent) .		
B. The switch shall be mounted on an adjustable stainless-steel bracket with stainless steel fasteners, so the height limit can be set and adjusted over time.		

	COMPLY	
	YES	NO
C. The switch shall be set so that when the dump body reaches the height limit, there will be a visual warning message displayed on the spreader controller screen alerting the operator that the dump body has reached the height limit.		
D. There shall also be an audible warning when the dump limit has been reached.		
E. There shall be a body limit override button as part of the operator control console joystick that will allow the operator to raise the dump body past the limit.		
F. The dump body warning message shall be logged as part of the spreader controller's onscreen error log.		
G. The body limit circuit shall have a summer/winter mode. In winter mode, the body limit circuit shall operate as described above.		
H. In summer mode, the body limit circuit shall be bypassed so that the operator can raise the body fully without sounding any alarms or having to override a limit circuit.		
I. Changing between summer and winter modes shall only be accomplished through the spreader controller programming.		
BODY UP SWITCH:		
A. A proximity switch must be mounted on the chassis in such a way as to indicate that the bed is not down on the frame rail.		
B. The switch must be totally enclosed and be impervious to environment.		
C. The 12V output of this switch will be connected to the "Body Up" input on the CS-150 Armrest. Reference: IFM part #IG6052 (or authority approved equivalent).		
SPREADER CONTROL:		
A. Spreader controller shall be a Rexroth CS-660 or (Authority approved equivalent). Shall be the newest version at the time of build.		
B. The CAN Bus spreader control system shall be ground speed orientated to maintain a pre-determined application rate regardless of vehicle speed. Control shall be by microprocessor for high control accuracy with the outputs being current compensated.		
MINIMUM CONSTRUCTION STANDARDS:		
C. The spreader controller main body shall be constructed of powder coated steel and extruded anodized aluminum. Plastic, nylon, polymer, or fiberglass type materials for the main body shall not be acceptable.		
D. The controller shall be constructed to meet the following EMC and Environmental standards:		
E. Electromagnetic Compatibility – 100v/m, load dump		
F. RF Immunity – ISO 11452-2, 400-1000 MHz, 80% mod.1kHz		
G. 1 GHz – 2 GHz, 80% mod. 1kHz 25v/m (level 1 sensitivity)		
H. Conducted Immunity – ISO 7637-2 (2004), System Pulse 1, 2a, 2b, 3b, 4		
I. RF Emissions – CISPR 25:2002-08, 30 MHz – 1 GHz, according to 72/245/EC EN 55025 Electrostatic Discharge – EN 61000-4-2 ISO 10605, Contact +/- 8kV, air discharge +/- 15kV Vibration – ISO 16750-3, 10-2000Hz @ 58 m/s		
J. Shock – IEC 60068-2-72, 40 G for 11 MS		
K. Moisture – DIN EN 60068-2-30Db; version 2, part 2, Hum=95% 25 to -55°C		
L. Salt Spray – DIN 50021-SS, 72h 35° C 5% NaCl		

	COMPLY	
	YES	NO
M. Media Resistance – ISO 16750-5, cola, coffee, paint thinner		
N. Enclosure Protection – IEC 60529 IP56		
O. Cables: All main harness wiring, valve cables and sensor cables shall be 100% tinned from end to end. No exceptions.		
Display:		
P. The controller display shall be a 7” wide WVGA capacitive touch screen with 16.7M colors. Shall be the newest version at the time of build.		
Q. The display glass shall be strengthened glass with a minimum thickness of 1.1mm and have a minimum hardness of 6H.		
R. The display shall have adjustable backlighting with a brightness of 1350 cd/m ² . The display shall show the following information while in operation mode:		
S. Time and date		
T. Control Mode of Spinner, Conveyor and Liquid Circuits Spinner, conveyor, and liquid set points		
U. Gate Position		
V. Name of material being used		
W. Any active error or warning messages Ground speed of vehicle		
X. Power float status Joystick mode		
Functionality:		
A. The spreader controller and joystick console shall function as one integrated system controlled by one microprocessor control module.		
B. At a minimum, the system shall have the following inputs and outputs: 28 - Current compensated proportional outputs		
C. 14 - Digital outputs		
D. - Protected and filtered frequency inputs 8 - Protected and filtered switch inputs		
E. 7 - Protected and filtered analogue inputs the controller shall have the following interfaces:		
F. 2 – CAN Bus ports		
G. 2 – Serial ports 1 – USB port		
H. Bluetooth v3.0 + HS		
I. 2 – dual band Wi-Fi channels		
J. The system shall be supplied to operate both the conveyor/auger and prewet in closed loop mode.		
K. The spreader controller shall have three rotary indented knobs for operating the spinner, conveyor/auger, and liquid. Anything less than three individual rotary knobs shall be unacceptable.		
L. The liquid output shall be controlled by a third knob on the controller dedicated to controlling only the liquid output. Multifunctioning knobs so one single knob will control two different outputs shall be unacceptable.		
M. The spinner knob shall activate a pause function when pressed. The Conveyor knob shall activate a blast function when pressed.		
N. Conveyor/Auger and liquid circuits shall be capable of operating in 5 different modes. The modes shall be manual, open loop, 12V triggered manual, ground speed triggered manual and closed loop / Auto.		

	COMPLY	
	YES	NO
O. The controller shall be capable of controlling 4 different solid and liquid materials with each material having up to 9 different application rates.		
P. There shall be a configurable Blast function that, when activated, will produce an increased output of material. The Blast function shall be capable of operating in a closed loop mode, a maximum output mode, a stationary mode or the Blast shall be capable of being disabled.		
Q. The Blast function shall be capable of being set to automatically turn off with a programmable timer. The setting range of the timer shall be 0-60 seconds.		
R. There shall be a Pause function that is used to stop spreading.		
S. The controller shall be capable of remote activated pause and blast.		
T. There shall be an unload mode that will allow the operator to run any circuit while the vehicle is stationary. Unload shall automatically turn off if the vehicle moves.		
U. The controller, as supplied, shall have a dedicated output for activating a conveyor/auger reverse function.		
V. The minimum and maximum output values of the spinner, conveyor/auger		
W. When using a conveyor/auger motor speed sensor the controller shall be capable of automatically adjusting the minimum and maximum output values of the conveyor/auger circuit.		
X. When using a flow meter, the controller shall be capable of automatically adjusting the minimum and maximum output values of the liquid circuit.		
Functionality SECTION 2:		
A. Access to program mode shall be by use of either an encrypted USB key or by passcode.		
B. In the case of errors, the controller shall have an audible alarm with an on-screen error message.		
C. The controller shall display error messages in the event of inaccurate spreading, cable breaks, coil shorts, defective sensor, over speed spreading and blasting too long.		
D. While spreading there shall be a status screen that can be accessed and will provide real time spreading information such as conveyor/auger rpm, actual solid material output and actual liquid material output.		
E. The controller shall have a built-in ground speed simulator to allow for system testing and troubleshooting.		
F. All programming parameters shall be able to be transferred to a USB key and the resulting parameter file shall be able to be loaded to other spreader controllers via the USB port. Programming parameter provided at no additional cost.		
G. All spreading data shall be transferable to a USB key and that data can be uploaded to a Windows based PC.		
H. All software required to view the spreading data on a Windows based PC shall be provided free of charge.		
I. The controller firmware shall be upgradable via the USB port and a USB key. Firmware update files shall be provided free of charge.		

	COMPLY	
	YES	NO
J. The controller shall have dedicated serial ports for interfacing with GPS units and temperature sensors.		
K. The spreader control system shall come with all necessary hardware, cables, and software to interface with the current AVL provider of the Turnpike Authority.		
L. As supplied the controller shall be capable of passing all spreading data to an AVL unit without having to purchase any additional hardware.		
M. The controller shall have an on-screen error log that can be accessed without being in program mode. When using a hydraulic pressure transducer, the hydraulic oil pressure shall be displayed on screen.		
N. The controller shall be capable of displaying both road and ambient temperature when a temperature sensor is used.		
O. The controller shall be capable of using road temperature information to alter the solid material output in relation to road temperature.		
P. The controller shall use voice feedback to alert the operator of rate changes or when pause or blast has been activated. The voice feedback shall be in a human voice.		
Q. The controller shall interface with a Can Bus joystick and display joystick status information such as joystick mode, direction of movement, percentage of movement and button layout of the joystick.		
R. When interfaced with a joystick the controller shall use a human voice feedback system to alert the operator as to which mode the joystick is in.		
S. All joystick minimum and maximum outputs shall be configured in the controller program mode. The use of external program devices shall be unacceptable.		
T. Note: Body up fitter is responsible for performing initial setup of the spreader controller. This is to include setting the nulls for each proportional output. Up-fitter shall be responsible for all programing. All groundspeed calibrations shall be performed by the up fitter prior to delivery.		
U. Spreader control shall spread at a rate of 200-300 lbs. per lane mile for the number of lanes selected. Lane number selections will be as follows: <ol style="list-style-type: none"> 1. Single Lane 2. Two Lanes 3. Three lanes 		
SPREADER REVERSE FEATURE:		
A. A momentary switch on the control panel will reverse the auger, in case of clogging or other stoppage, under operator control.		
B. This switch will also cut out power to the proportional control for the spinner.		
BLAST FEATURE:		
A. Blast mode shall be controlled by means of a push type switch. Blast amount is programmable from 1% to 100% of hydraulic capacity.		
B. A separate and clearly defined audible warning alarm shall sound when blast button is in the "on" position for longer than the pre-set blast time.		
C. The blast shall also be able to be programmed to operate for a set period from 1 to 59 seconds.		

	COMPLY	
	YES	NO
POWER FLOAT:		
A. A power-float system (reference: Rexroth R987381753) shall be installed in conjunction with the present hydraulic system. The power float system shall provide a reduced pressure to the plow lift cylinder to reduce the amount of down force the plow can transmit to the road surface. (or Authority approved equivalent)		
B. The amount of force that the plow can transmit to the road surface shall be adjustable without the use of tools by turning a hand-wheel adjustment on the power float manifold.		
C. The power-float manifold shall be plumbed in series with the plow circuit and include counterbalance valves to prevent the plow from drifting when power float is not active.		
D. The power float system, once turned on, shall engage, and disengage automatically by detecting joystick movement.		
E. The power-float system shall be integrated with the spreader controller and shall be programmable for a resetting mode or a non-resetting mode.		
F. In the resetting mode, the power float will turn itself off when the plow is raised off the ground and will have to be turned on again by the operator.		
G. In non-resetting mode the power float shall de-activate when the plow is raised off the ground and automatically re-activate when the plow is returned to the down position.		
H. The power-float manifold shall be mounted inside the valve enclosure and be plumbed to the power beyond end cover of the hydraulic valve.		
CABLE ASSEMBLIES:		
A. All electrical cables supplied must come complete with attached watertight "quick disconnect" connectors, shielded, heavy-duty industrial and anti-scuff and cut sheeting.		
B. Wire joints must be soldered, and heat shrink tubing used in all appropriate locations.		
C. All quick disconnects must have ample dielectric grease when installed.		
FINAL HYDRAULIC TEST AND INSPECTION		
A. Any items not specifically stated herein, but necessary for proper system operation, shall comply with recommended hydraulic industry standards. The vendor shall be responsible for initial servicing and testing of hydraulic system, which shall include the following:		
B. Initial fill of reservoir with a high grade of hydraulic fluid to approximately 40-gallon level. Hydraulic oil specifications must be ISO 32 compatible.		
C. Start up and initial high pressure run of all hydraulic system components, check for leaks, excess heat buildup, system efficiency, pressure settings, etc. Vendor shall be responsible for replacing any defective components. Vendor will be responsible for initial test of spreader and all plow circuits including wing plow if equipped. After initial start-up and system check, vendor will recheck oil level in reservoir and replace hydraulic filters.		
D. Any hydraulic lines located within 10 inches of exhaust system shall be heat shielded.		

	COMPLY	
	YES	NO
E. A hydraulic oil analysis of the vendors bulk tank must be performed and provided to the NJTA within 30-days of delivery of each truck. One test will cover any truck delivered in the 30-day time frame		

DB-2022: 11' STAINLESS STEEL DUAL AUGER DUMP BODY

	COMPLY	
	YES	NO
11' STAINLESS STEEL DUAL AUGER BODY		
GENERAL:		
A. This combination dump body / material spreader unit shall consist of a hopper, dual discharge / feed augers, spinner disc, power drive, and all components necessary to make a complete operating unit.		
B. This unit shall be factory ready to accept servo controls.		
C. All stainless-steel sheet metal used in the production of this unit shall be 304 4b finish stainless steel.		
D. Any stainless-steel plate used in the production of this unit must be .250" or thicker and must be 304 stainless steel.		
E. All fasteners used on the unit must be stainless steel, with an anti-seize compound applied during assembly to prevent galling or seizing.		
F. The manufacturing and production of this unit shall be of the best commercial practices and only materials of the finest quality are to be used.		
G. <u>Bidders must submit with their bid complete specifications on the unit they propose to furnish at time of bid.</u>		
H. All inside and outside joints on upper body are to be continuous welded for maximum strength.		
BODY:		
A. 11' Body shall have a minimum 8 cubic yard struck capacity and a minimum 9.8 cubic yard capacity with sideboards. 2" x 12" oak side boards painted Omaha Orange or Authority approved equivalent.		
B. Body shall not exceed 99" overall width.		
C. Body shall be constructed on heavy duty long sills made of .250" thick 304 stainless steel plate and shall be not less than 13.75" tall with a 3" formed bottom flange.		
D. Body shall incorporate a fully welded auger trough constructed of .250" thick 304 stainless steel plate and shall be 34" wide x 10.5" tall.		
E. Body shall incorporate a sloped, one-piece side/floor design and both shall intersect at and be solid welded to the top edge of the long sills		
F. 36" high sides and floor shall be constructed of 7-gauge stainless steel.		
G. Sides shall each be constructed from a single piece of sheet steel and shall include a formed 4" top flange. Sides shall also be formed with three 3/8" radius bends to produce a slope of 38 degrees to the auger trough to facilitate complete body cleanout without raising body.		
H. Inside body length shall be 180" from head-sheet to the tailgate.		
I. Side height must be 46" tall, measured from chassis rails.		
J. Sides shall incorporate a fully boxed, 5" deep X 10" tall, 7-gauge, top rail.		
K. Rear corner posts shall be 10-gauge formed stainless steel, with integral 15" high flange-formed rear apron.		
L. Each rear corner post and apron shall be full depth and must be one piece, no splicing.		
M. The rear corner posts must be tied together with a .250" X 3.500" X 5.250" stainless steel cross angle.		

	COMPLY	
	YES	NO
N. The rear corner posts must be 7" deep, 16" wide, and 53.5" tall.		
O. Each rear corner post shall include two stainless steel .375" X 3.5" X 4.5" chain retainer ears.		
P. Head-sheet shall be two-piece design constructed from 10-gauge formed stainless steel. Upper and lower sections shall overlap a minimum of 1" and shall be solid welded. Lower section shall be formed to slope 30° to the auger trough.		
Q. Head-sheet shall be 53" tall measured from the chassis.		
R. Head-sheet shall have a 2.5" J-brake reinforced top edge.		
S. Head-sheet shall have a 12" X 12" doghouse to recess the telescopic cylinder.		
T. Sideboard pockets shall be constructed of 10-gauge stainless steel, and 2" wide.		
U. Full length integral fenders to be constructed of 10-gauge stainless steel and shall be solid welded to the body sides and front rear corner posts.		
V. Stone guards attached to dump body to be constructed of 10-gauge stainless steel in front of drive axle.		
W. Integral fenders shall be 27.625" wide with a 5.750" X 2" formed edge for added strength. The integral fenders shall include a full length 4.5" X 4.5" V-crimp for increased strength. Side / fender cavity shall be capable of accepting toolboxes or liquid tanks.		
X. A removable spill plate will be provided 96"x10" 10-gauge 201 stainless steel with a 2" formed flange at drop off edge and plated sides with gussets and end plates. Attached via side plates with a single drop pin on each side plus two bolts to secure center to apron. Shall extend 8" rearward and slope 30 degrees to facilitate flow of material off lip with body in lowered position.		
TAILGATE:		
A. The complete tailgate shall be constructed of 10-gauge stainless steel with fully a boxed perimeter utilizing formed stainless steel. Conspicuity required on the tailgate, Ref: NJTA-CE01		
B. The design requires four full height vertical braces and three horizontal braces to create a six-panel tailgate.		
C. The four vertical braces must be 7" wide, 4" deep, and 42" tall.		
D. Horizontal support members will slope 50 degrees to eliminate debris build-up.		
E. Upper hinge legs shall be 7.5" wide X 10" tall X 0.75" thick stainless steel for increased upper hinge pin wear surfaces, one piece, no laminating. Hinge legs shall come with a 1" diameter x 4" long rod welded to them for securing the tarp.		
F. Upper hinge pins to be non-rotating, 3.75" long X 1-1/4" diameter with recessed grease fittings. They shall be fitted with a SS retainer chain welded to the rear corner post to prevent loss when the tailgate is being operated in the double acting position.		
G. Lower latch pins shall be 1 1/4" diameter and rest in double 3/8" thick stainless-steel seats backed up by 1/4" thick stainless-steel plates welded to corner posts. A total thickness of 3/8" steel support.		
H. The rear skirt must be vertical and shall not extend beyond the end of the body floor.		

	COMPLY	
	YES	NO
I. Tailgate shall be double acting.		
J. Spreader chains shall be 3/8" zinc plated chain with protective mesh covering.		
K. Tailgate shall be equipped with a heavy stainless-steel D-ring to aid in removal.		
IMPORTANT NOTE: The design of the material delivery system shall eliminate the need for an adjustable or metered door in the tailgate. A single asphalt/coal chute, measuring not less than 17" wide X 8" tall shall be provided for summer season operations. The coal chute will provide for two positions; completely closed or fully open. Coal chute shall be designed with a spring-loaded handle doe securing into the fully open position and provide for fully closed position.		
AIR OPERATED TAILGATE LATCH:		
A. Air tailgate latch shall utilize dual air brake chambers with 5/8" diameter push/pull rod. Air inlet port shall be 3/8" NPT and be supplied by 3/8" airline.		
B. Dual latch mechanism shall be over-center positive lock type. It shall not require air cylinder to support load required to keep tailgate latched.		
C. Latch mechanism shall consist of heavy-duty bell-crank supported on a 1-1/4" diameter pivot shaft. Crank and shaft assembly shall be welded to a heavy-duty stainless-steel plate which is welded to the body.		
D. All latching components (excluding the brake chamber) must be constructed from stainless steel, NO EXCEPTIONS.		
E. A latched "Tail-Gate" switch shall be incorporated with the chassis auxiliary switch panel and shall include the following features:		
1. 15-amp circuit protection, ignition powered		
2. Latching on/off switch		
3. The switch shall be backlit and labeled "Tailgate Unlock"		
4. Reference Drawing: NJTA-DSL01 and NJTA-BBC01		
AUGER SYSTEM:		
A. The "dual auger" system shall consist of twin 7" diameter augers running longitudinally with the body. The augers will terminate flush with the inside of the tailgate panel, and feed material the full length of the body to a drop chute located at the rear and underneath the body of the conveyor floors.		
B. The drop chute shall measure not less than 10" wide X 4.375" deep and shall extend down from bottom of the auger trough a minimum of 3".		
C. The auger trough shall be continuous welded and sealed to prevent leaching of salt or brine onto the truck chassis.		
IMPORTANT SAFETY NOTE: In the interest of protecting the operators and preventing accidental engagement with the feed augers, the auger trough opening shall terminate at a point not less than 36" forward from the end of body floor and tailgate. The body floor shall be smooth and uninterrupted after this point. REFERENCE-NJTA-1003 NO EXCEPTIONS TO THIS CRITICAL SAFETY FEATURE WILL BE ACCEPTED.		

	COMPLY	
	YES	NO
D. The auger tube shall be constructed from 3.5" Schedule 40 pipe		
E. The flighting must be continuously welded the full length of the auger.		
F. The flighting shall be ½" thick, with a 6" pitch, and counter-rotating.		
G. The augers shall each be driven by a 63.9 cubic inch hydraulic motor direct coupled to the auger by a spline shaft coupling at the forward end.		
H. The spline coupling must be continuously welded to the end of the auger pipe to prevent corrosion inside the auger pipe.		
I. The couplings shall be equipped with grease fittings so that the motor splines and couplings can be lubricated.		
J. The auger will include a 2" TGP (turned ground and polished) idler shaft, welded to two .5" thick washers, which are welded solid into the end of the auger pipe to prevent corrosion inside of the auger pipe.		
K. The idler ends of the auger shall be supported by two 4-bolt flange, heavy duty, dust sealed, self-aligning ball bearing.		
L. These bearings shall be able to be lubricated from central lubrication system and shall be recessed in the rear skirt of the body and protected from material being dumped and spread from the body by a stainless-steel cover.		
M. Both augers MUST include full length hard surfacing equal or greater than HRC 40, (Hardness Rockwell C)the entire width of the flighting edge.		
N. The auger must have a welded thrust washer on the pipe to eliminate a forward load on the drive motors and bearings.		
O. A UHMW (Ultra High Molecular Weight Polyethylene) thrust bearing is required between the thrust washer and the front plate of the auger trough to minimize wear.		
P. Free flow of material shall be restricted by using an anti-flow plate positioned at the rear of the body over the augers. The anti-flow plate shall extend inwards from the rear of the tailgate 21.75" and shall eliminate the need for any metered gate or other metering devices		
Q. The anti-flow plate shall be not less than 34.75" wide X 21.75" deep and shall have a formed flange sloping 45° towards the auger trough. A protective grate consisting of 1/2" 304 stainless steel round bar shall be placed over the exposed auger inside the hopper and shall extend in 12" forward from the anti-flow cover. Access to the augers shall be restricted for a minimum distance of 32" from the rear of the body. REFERENCE-NJTA-1003		
R. The 1/2" 304 stainless steel round bar shall have 3" X 4" openings and shall be solid welded at all intersecting points with the body.		
S. Auger trough shall include a washout system.		
REAR MOUNTED SPINNER:		
A. The spinner assembly and mounting tube shall be constructed from stainless steel.		
B. Spinner assembly shall be mounted to the frame rail.		
C. IMPORTANT NOTE: In the interest of eliminating conflict with towed equipment such as trailer mounted attenuators, no portion of the spinner mounting hardware may extend beyond the pintle plate.		
D. Spinner shall remain in place with body raised, spinner to remain level.		
E. To eliminate corrosion, the spinner disc shall be 24" in diameter manufactured from 10-gauge stainless steel.		

	COMPLY	
	YES	NO
F. To eliminate corrosion, the spinner vanes must be manufactured from 10-gauge stainless steel.		
G. The spinner shall have "formed vanes" bolted to the spinner disc with stainless fasteners for easy replacement.		
H. The spinner shall have a conical safety shroud above the disc to protect the chassis and surrounding area from flying aggregates. This safety shroud shall also be constructed to prohibit the aggregate from being thrown forward onto the truck components.		
I. The spinner guard shall extend approximately 2/3 or 135° of the way around the circumference of the spinner and shall measure not less than 6.25" tall.		
J. The spinner assembly shall mount to a 2" OD DOM stainless steel tube to allow vertical adjustment, a horizontal swing-away function, and a horizontal telescopic adjustment.		
K. The spinner assembly shall have 6" of vertical adjustment, eight pinned positions for accurate spread pattern control, and eight pinned positions, in 1/2" increments, for adjusting material drop location onto the spinner disc.		
L. All adjustments shall be made from the rear of the spinner support tube, ensuring ease of access.		
HOIST:		
A. The hoist shall meet (The Association for the Work Truck Industry) NTEA Class 50, with a minimum 25-ton capacity.		
B. The cylinder is to be trunnion mounted telescopic and double acting.		
C. The lower cylinder trunnion pins shall mount into a heavy-duty lift frame constructed from .25" and .50" carbon steel. Lift frame shall include two 2" thick X 9" long X 4" tall lift blocks solid welded into the frame to accept the lower trunnion pins.		
D. Each lower trunnion pins shall be captured with a retainer weldment constructed from 1" thick X 1.5" wide X 4.75" long carbon steel secured with 5/8" hardware. Retainers shall be equipped with grease zerks.		
E. The upper cylinder trunnion pins shall mount into a heavy-duty lift frame constructed from .375" and		
F. .50" carbon steel. Lift frame shall include with two 1.25" thick X 11.625" long X 3" tall lift blocks solid welded into the frame to accept the upper trunnion pins.		
G. Each upper trunnion pins shall be captured with a retainer constructed from 1.25" wide X 2" tall X 5" long carbon steel secured with 1/2" grade 8 hardware. Retainers shall be equipped with grease zerks.		
H. Upper trunnion lift frame weldment shall be recessed into the body doghouse and shall be bolted to the body with a minimum of ten 3/4" grade 8 bolts.		
I. Lower lift frame shall include an integral safety body prop. Prop shall be secured into the vertical position exactly perpendicular to the frame with a 1/2" diameter X 3.5" clevis pin. Pin shall be secured to lift frame with stainless steel chain to prevent loss.		

TELESCOPIC CYLINDER SPECIFICATIONS:	YES	NO
A. All tubing used in the manufacture of this cylinder shall be honed D.O.M. (Drawn over Mandrel) tubing and must have the corresponding mill specs sheets from the run under which it was produced.		
B. After machining, the tubes and glands shall be submerged in a liquid salt bath nitriding process, polished, and submerged a second time to enhance the mechanical properties of the tubing. The nitrided tubes shall have ten times the corrosion resistance of hard chrome plating, twice the fatigue strength of untreated carbon steel tubing, and a Rockwell hardness of C60-C65.		
C. For simplicity and longevity there shall be no brass, or phenolic wear parts in the cylinder.		
D. The cylinder seal shall be U-cup type, positioned in the gland nut as a rod seal to wipe against the OD (outside diameter) of the tube passing through it. As the cylinder retracts, foreign materials will be removed by means of a wiper, also located in the gland nut, and the tube will be surrounded by oil below the seal. An outer cover shall enclose the cylinder while not in use.		
E. Through means of an oscillating collar near the bottom of the cover, the body can be offset 5 to 7 degrees from side to side without side loading the cylinder. The trunnion pins on the oscillating collar will provide the means for lifting the body at the bottom, which will increase stability.		
F. The Cylinder shall mount the largest section at the bottom.		
G. Cylinder shall include a two-year warranty		
H. The hoist package shall include 1/2" and 3/4" stainless steel hydraulic tubing running from the rear of the body forward to the hoist cylinder.		
CAB SHIELD:		
A. Shall be constructed of 10-gauge stainless steel and extend forward of body 24".		
B. Shall be full width of body, as to allow the end plates on cab shield align with front edges of the body sides for maximum support. The end gussets tie the end plates to the front edges of body sides.		
C. Forward edge shall be "C" formed with 4" section height.		
D. Shield pan shall slope 2 degrees for shedding water, and double ribbed on the underside of cab shield to minimize flexing.		
E. End gussets shall be reinforced with formed angles that also serve as wire chase for cab shield lighting.		
F. Note: The Cab-shield will be of a design in which the flanges and gussets are below the horizontal cab-shield sheet. The design of this cab-shield shall be submitted and approved by the NJTA Fleet Representative prior to the manufacturing of the bed.		
AUGER TROUGH COVER PLATE:		
A. Cover plate shall be .250" thick stainless steel two piece that covers the entire auger trough.		
B. It shall attach at the rear with stainless steel bolts and be captured at the front of the body and contain a heavy-duty stainless-steel Qty (2) d-rings to aid in removal		

BODY TOP GRATE SCREEN:	YES	NO
A. The main center support shall be constructed of stainless-steel box beam.		
B. The top screens shall be constructed of 3/8" stainless steel rods welded to form a 3" square mesh, which is framed by 1/4" x 1 1/2" flat stainless-steel edge supports and reinforced by 1/4" x 1" flat stainless-steel bars.		
C. The top screens shall be constructed in a manner that will interlock all screen sections by means of a single bolt in the rear screen section on each side of the body.		
D. Top screens shall be removable and use the "Drop and Lock" type hinge, as screens utilizing hardware may become damaged, and fail.		
LADDER:		
A. Ladder shall be a six-step design of stainless-steel construction. Ladder shall consist of an upper portion bolted between the side and the fender, and a lower portion that pulls out from a stowed position under the fender.		
B. Two stainless steel grab handles (one on each side) shall be positioned at the top of the ladder and be coated with an industrial strength anti-slip coating. Position to be determined at Pilot truck inspection.		
PRE-WET TANKS:		
A. The two-sided mounted tanks with a minimum of 200-gallon on-board capacity.		
B. The tanks shall be rotational molded polyethylene with a .300" wall thickness.		
C. RH and LH tanks shall be connected with a stainless-steel pipe crossover plumbing for level filling and emptying at the rear of the bed. Pre-wet supply hose shall be connected to a stainless hose barb connector welded to crossover in the center of the body long sills.		
D. Each tank shall have a combination pressure and vacuum relief vent cap installed which is rated for 10 CFM. Tank caps shall be attached to the tank strap bolt with a stainless-steel cable.		
E. Tank vents shall open on vacuum of .5 psi. and 1.5 psi of pressure for relief.		
F. Tank vents shall have a domed top to prevent the buildup of ice or snow from interfering with proper operation		
G. Shall include 1-1/2" female quick fill fittings on each tank.		
H. Each tank shall be secured to the body with no less than two stainless steel straps.		
I. Each tank end shall be held in place with a stainless-steel angle fitted with a rubber insulator to prevent chafing of the tanks.		
J. NOTE: Mounting design and method must ensure the tanks will be secured to the body and protected from the effects of vibration and daily use. All plumbing must be properly supported as to prohibit strains and twists on tanks and fittings.		

PRE-WET APPLICATION LANCE:		
	YES	NO
A. There shall be a stainless-steel lance plumbed directly into the auger trough for the purpose of internally mixing pre-wet liquids into the granular aggregates within the auger trough.		
B. A 3/4" stainless steel injection lance of not less than 82" in length shall be provided and have application holes sized appropriately to apply 7 GPM at 50 PSI.		
C. The stainless-steel plumbing must be removable from the rear for cleaning and servicing.		
D. The stainless-steel plumbing shall be shielded from the granular material to prevent clogging and potential damage by means of an inverted vee positioned above the injection lance and below the auger safety grate		
E. The inverted vee shall be at least 2.75" X 2.75", constructed from 7-gauge stainless steel and shall run the entire length of the auger trough.		
F. Inverted vee shall be mounted under 1/4" thick cross supports. Inverted vee and cross supports shall be solid welded to the body.		
PRE-WET PUMP:		
A. The pre-wet power unit shall consist of a bronze gear pump, hydraulic motor, relief valve and flow meter all housed in a stainless-steel enclosure.		
B. The bronze gear pump shall be capable of delivering a minimum of 8 gpm at 1800 rpm and handling up to 100 psi.		
C. The hydraulic motor shall be direct coupled to the pump by use of a lovejoy coupling. The hydraulic motor shall be supplied with hydraulic oil directly from a dedicated valve section in the main hydraulic valve assembly. The motor shall be of the orbital design and have a displacement of 12.5 cubic centimeters.		
D. There shall be an adjustable relief valve installed on the pump outlet. The relief valve shall be plumbed so that when the relief valve opens, it will divert excess flow to the inlet of the pump.		
E. There shall be a paddle wheel style flow meter installed in the pump outlet line. The flow meter shall be used to send flow information to the spreader controller. The spreader controller will use this information to monitor the accuracy of liquid flow, liquid calibration and to determine whether liquid is flowing through the system.		
F. The enclosure shall be constructed of all stainless steel and have a removable lid. The lid shall be secured with a single rubber latch. The enclosure and lid shall also have a separate tab for securing the lid with a provided stainless-steel lynch pin.		
G. There shall be a strainer installed in the plumbing between the liquid tank and the prewet power unit. The strainer shall have a replaceable 50-micron mesh element.		
H. A 1 1/2" cam lock style coupling shall be installed for filling of the liquid tanks.		

	YES	NO
I. There shall be a 3/4" cam lock style quick disconnects in the spray nozzle line near the rear of the truck to facilitate the removal of the spray nozzle. Located between the prewet power unit and this disconnect shall be an inline check valve to prevent siphoning.		
J. NOTE: Location of pump enclosure, strainer and check valve shall be determined at prebuild with consideration to ease of access for servicing components.		

	YES	NO
MATERIAL VIBRATOR:		
A. Vibco Cougar DC-2500 vibrator, or equivalent, to be mounted to the front of the curb-side long sill on an 8" channel. (or Authority approved equivalent).		
B. Vibrator shall be controlled by a factory dash switch with Vibco TDC-2 adjustable timer. Timer shall be installed inside of cab. (or Authority approved equivalent).		
C. Placed in position (6) of Dash switch layout		
D. 20A circuit protection, Ignition powered		
E. Reference Drawing: NJTA-DSL01 and NJTA-BBC01		
F. The switch shall be backlit and labeled "VIBRATOR"		
ELECTRIC DUMP BODY COVERING SYSTEM:		
GENERAL:		
Each body shall include a retractable load covering tarp.		
A. Aero Industries Easy Cover Model 575 or (Authority approved equivalent) with a factory cab operated rocker switch. Length to be adequate to properly cover the dump body.		
B. The arms are powered by (2) underbody springs to be 5/8' diameter coil and color coded for driver and passenger side. The spring and shaft assembly must be in a one-piece holder. and shall be designed to ensure the tarp cannot back-drive.		
C. For replacement purposes, the arm assemblies must be universal to eliminate the need for driver-side and passenger- side components. The arm assembly shall consist of four (4) pieces of high strength 6061 T6 aluminum extrusions with at least a minimum wall thickness of .188 for the ends of the tube for strength purposes. All arm components must be polished. The arm sections shall telescope to allow for length and width adjustment and must be easily replaceable. Arms should be angled at approximately 26 degrees to allow the arms to be recessed in the open position. To minimize friction and wear within the tarp pocket, the rear cross tube shall be round.		
D. The roll-up tube assembly is to be a 6061 T6 aluminum extrusion with zinc plated steel machined end shafts. It shall be a telescoping design so the width can be adjusted without cutting the roll-up tube. The roll-up tube shall be designed so the tarp can easily be attached without drilling any holes.		
E. A one-pieced polished aluminum wind deflector is to be secured to the roller assembly mounting plates. To minimize installation, the wind deflector must be designed so no cutting (to length) or drilling is required.		
F. The roller assembly mounting plates shall be polished aluminum with high-speed flanged, pre- lubricated bearings		
G. The 12-volt electric motor shall have a right-angle gearbox with a removable chrome plastic cover. The gears must be hardened and ground steel, encased in a metal housing.		
1. Tarp Open/Close switch shall be placed in position (16) of Dash switch layout		
2. 20A circuit protection, Ignition powered, manufactures 3 position momentary switch		
3. Reference Drawing: NJTA-DSL01 and NJTA-BBC01		
4. The switch shall be backlit and labeled "TARP" OPEN/CLOSE		

L. The motor shall carry a three (3) year non-prorated warranty.		
	YES	NO
M. The systems shall include a Double-Arm that is attached to the primary swing arms. The second arm shall pivot freely on the primary swing arm and be orientated opposite the rear cross tube to provide gravity assisted downward force to hold the tarp behind the cab shield and minimize tarp lifting or sailing.		
N. The tarp material shall be an RFL dipped, chemically treated fabric, suitable for covering asphalt. The tarp is to finish nine (9) feet wide. The tarp shall have a series of shock cords attached to the tarp, so the tarp's width will constrict enough to fit on the roll-up bar. All sewing is to be lock- stitched; chain stitching is not acceptable. A minimum of two (2) polyester web reinforcements are to be sewn or welded to the tarp longitudinally for stability.		
CONSPICUITY ENHANCEMENT BODY:		
A. Each dump body rub rail and rear shall include 2" wide conspicuity enhancement.		
B. The enhancement shall be alternating red and white stripes.		
C. Enhancement shall provide reflection even in daylight hours.		
D. Conspicuity tape shall have twelve (12) different patterns of micro-prisms for maximum visibility.		
E. The reflective system shall be impervious to ultraviolet radiation via internal pigmentation with acrylic layer protection.		
F. Conspicuity tape shall withstand all weather conditions and repeated washing and meet all (Federal Motor Vehicle Safety Standards) FMVSS 108 requirements.		
G. Reference: NJTA-CE01		
CONSPICUITY ENHANCEMENT TAILGATE:		
A. Each dump body tailgate shall include chevron pattern conspicuity enhancement.		
B. All stripes will be six (6) inches wide, forty-five (45) degrees from vertical.		
C. The yellow stripes shall be Diamond Grade Fluorescent Yellow VIP Reflective Sheeting-3981, pressure sensitive or approved equivalent.		
D. The black stripes shall be Scotchcal 3650-12, pressure sensitive (or Authority approved equivalent).		
C. Enhancement shall provide reflection even in daylight hours.		
D. Conspicuity tape shall have twelve (12) different patterns of micro-prisms for maximum visibility.		
E. The reflective system shall be impervious to ultraviolet radiation via internal pigmentation with acrylic layer protection.		
F. Conspicuity tape shall withstand all weather conditions and repeated washing and meet all FMVSS 108 requirements. Reference: NJTA-CE01		

WARRANTIES AND DIAGNOSTICS

	COMPLY	
	YES	NO
FACTORY WARRANTY:		
A. All vendors shall provide a basic warranty, without cost to the New Jersey Turnpike Authority, covering 100% parts and labor. Copies of all warranties to be submitted with bid		
EXTENDED WARRANTIES:		
A. Engine Warranty:		
<ul style="list-style-type: none"> • All vendors will provide detailed coverage of a 60-month/100,000 miles unlimited hours non-deductible extended warranty. 		
B. Starter/Alternator		
<ul style="list-style-type: none"> • All vendors will provide detailed coverage of a 60-month/100,000 miles unlimited hours non-deductible extended warranty option to include, starter and alternator replacement. 		
C. Allison Transmission Warranty:		
<ul style="list-style-type: none"> • All vendors shall provide detailed coverage of a 60-month/100,000-mile unlimited hours non-deductible warranty. 		
D. Exhaust Emissions Aftertreatment warranty:		
<ul style="list-style-type: none"> • all vendors will provide detailed coverage of a 60 month / 100,000 miles unlimited mileage non-deductible warranty. 		
E. Remote Diagnostics		
<ul style="list-style-type: none"> • All vendors will provide detailed coverage of 84-month unlimited mileage/hours warranty option to include remote diagnostics with remote programming 		
F. HVAC Warranty:		
<ul style="list-style-type: none"> • All vendors shall provide detailed coverage of a 60-month/100,000-mile unlimited hours non-deductible warranty option on the HVAC system. 		
DIAGNOSTIC SOFTWARE:		
A. CABLES FOR VEHICLE DIAGNOSTICS		
<ul style="list-style-type: none"> • Nine (9) sets of cables and connections devices to connect to a laptop for engine, body, hvac, abs, and transmission component diagnosis and the for the software listed below. 		
B. Nine (9) Diagnostic software subscriptions for one (1) year for chassis and body manufacturers:		
Bluebird, Ford, Freightliner, GM, International, Kenworth, Mack, Peterbilt, Sprinter, Sterling, Thomas Built, Volvo, and Western Star.		
C. Nine (9) sets of Diagnostic software subscriptions for one (1) year for the following engines:		
CAT, Cummins, Detroit Diesel, Ford, GM, Hino, International, Mack, Mercedes, Paccar MX, Sprinter, and Volvo.		

	YES	NO
D. Nine (9) sets of Diagnostic software subscriptions for one (1) year for the following transmissions: Allison, Detroit, Eaton, Ford, GM, Mack, Sprinter, Volvo, and ZF Meritor.		
E. Nine (9) sets of Diagnostic software subscription for one (1) year for the following anti-locking braking systems: Bendix, Ford, GM, Haldex, Sprinter, Wabash, and Wabco		

WP-2022 OPTIONAL WING PLOW

	COMPLY	
	YES	NO
OPTIONAL HEAVY-DUTY PATROL WING PLOW		
MID-MOUNT POSTLESS FULL TRIP MOLDBOARD PATROL WING PLOW SYSTEM:		
GENERAL:		
A. Selection of this option shall include complete patrol wing plow system as specified with all equipment, hydraulics, controls, and accessories required for safe operation. System shall include Wing plow laser, wing plow camera, spotlight, wing plow mounted marker and strobe lights mounted in NJTA approved locations.		
B. Moldboard sheet shall be a smooth rolled, curved shape, made from minimum 3/16" thick steel. The moldboard sheet shall extend a minimum of 7" outboard from the outer end of the bottom angle. The moldboard shall include an integral formed channel at the top for strength, measuring a minimum of 3.50" wide and 1.50" tall. The moldboard height shall be a minimum of 29" inboard and 36" outboard, measured vertically from the ground, with a full 8" x 120" cutting edge installed.		
C. Shall include a minimum of six (6) vertical ribs on 10-foot models, each rib shall be full height, extending all the way from the bottom angle to the top formed channel. Each rib shall be .50" thick, 4" wide at the bottom, and a minimum of 3" wide at the top. The outermost end of the moldboard sheet shall be braced by one of these ribs along its full height rib to within .50" of the ends of the moldboard sheet, to minimize bending of the moldboard sheet as it hits an obstruction.		
D. All ribs shall be fully welded to a full-length bottom structural angle measuring 4" x 4" x .75".		
E. The moldboard shall be further braced by a row of upper horizontal braces measuring .50 x 3" along the entire length of the moldboard.		
F. The moldboard pivot pin area shall be reinforced with (2) 2.50" OD x 1.53" ID x 3.94" cold-finished steel tubes, fully welded through the moldboard sheet and through a reinforcing plate measuring 16.00 x 16.50 x .50". This reinforcing plate shall be joined with additional structural members to the bottom angle, ribs, and moldboard sheet to form a fully welded box section. The two pivot positions provided allow for adjustment of the wing position for a particular truck configuration, allowing for windrow coverage or more wing swath, at the user's discretion.		
G. Shall include two rows of fully welded and gusseted structural angles, with a series of holes to provide a minimum of (5) push beam attaching points on 10-foot moldboards. This will allow the push beam to be attached to the moldboard at the optimal angle for each installation to maximize strength. The lower of these two angles shall measure minimum 3.5" x 3.5" x .50", and the upper of these two angles shall measure minimum 6" x 4" x .50".		
H. Entire moldboard assembly shall be continuously welded.		
I. Moldboard shall be attached to pivot hinge using a 1.50" diameter Grade 8 bolt with slotted nut and cotter pin.		

	COMPLY	
	YES	NO
J. Moldboard shall have replaceable 120" x 8" x .625" cutting edge with 6" x 45 degree cut on leading edge to minimize surface damage. The cutting edge to be (American Association of State Highways and Transportation) AASHO standard punched and be easily replaced. Hardware is to be grade 8.		
MID MOUNT POSTLESS STRUCTURE:		
A. The forward wing structure shall operate using dual parallel arms running perpendicular (90 degrees) to the frame of the truck and shall allow the toe of the moldboard to float freely over the road surface. The front float action shall be mechanical, requiring no hydraulic float function.		
B. The entire structure shall be a maximum of 28.75" in height. Including all fasteners, the entire front structure shall take up no more than 15" of space in the fore-aft direction along the side of the truck.		
C. The forward structure shall include .63" thick x 10" deep side plates welded to a 27.75 x 11.13 x 1.00" thick back plate and shall also include (4) fully welded bushings measuring 2.50" OD x 1.53" ID x 1.00" thick. It shall be further braced with a brake formed-internal stiffener measuring a minimum of 10.88 x 9.00 x 10.56".		
D. The forward structure shall include an integrated cross tube of 6 x 4 x .50" rectangular steel tubing, fully welded and braced to the structure using (2) 23 x 6 x .38" gussets and a 15.5 x 6" brake-formed internal brace.		
E. The lower arm assembly shall include (2) .75" thick x 3.75" tall sides joined by (2) fully greaseable 2.25" OD x 1.53" ID x 10.38" long cold-finished steel tubes, a 15" x 9.75" x .38" plate, a 2.5 x 2.5 x .38" cross angle, and (2) .25" thick full width gussets, all forming a fully welded structure		
F. The upper arm assembly shall include (2) .75" thick x 4.25" tall sides joined by a fully greaseable 2.25" OD x 1.53" ID x 10.38" long cold-finished steel tube, a 15" x 9.75" x .50" plate, a .50" thick full width brace bar, and a .25" thick full width gusset, all forming a fully welded structure.		
G. The front lifting action shall be provided by a 3" bore x 2" rod x 10" stroke cylinder, with nitride rod for corrosion resistance and chip resistance.		
H. The lift cylinder shall be attached to the rigid front structure on one end, and to the rotating cylinder arm on the other end. The rotating cylinder arm shall rotate on the same axis as the upper arm assembly but shall be completely independent of it. The contact surface between these two arms shall be a minimum of 14.5 square inches to prevent deformation.		
I. The arms shall rotate on (4) 1.50" x 15" Grade 8 bolts, supported over their full length, and secured using (4) nylon insert locknuts.		
J. The outer linkage assembly shall be formed from .50" thick steel plate, minimum 27" x 5.8" x 11.5", braced by (2) .50 x 3" full width steel flat bars. It shall include (4) fully welded bushings measuring 2.50" OD x 1.53" ID x 1.00" thick. It shall further include a 2.50" OD x 1.53" ID x 10.13" long cold-finished steel tube, fully welded, and braced to the structure, which shall provide for attachment of the wing hinge.		

	COMPLY	
	YES	NO
K. When mounted under a dump bed, the structure shall be capable of raising the wing 12.63" from the ground, with a full 8" cutting edge installed, measured vertically from the ground to the lowest point on the cutting edge, and shall provide 12.63" of float capability		
L. When mounted in front of the cab or between the cab and the dump body, the structure shall be capable of raising the wing 14.50" from the ground, with a full 8" cutting edge installed, measured vertically from the ground to the lowest point on the cutting edge, and shall provide 14.50" of float capability.		
WING HINGE FULL TRIP:		
A. The trip hinge assembly shall attach the wing moldboard to the post less front structure. It shall include an inner weldment that attaches to the post less front structure using (2) 1" thick ears and a 1.50" diameter pin. It shall include an outer weldment that attaches to the wing moldboard using a 1.50" diameter Grade 8 bolt and castle nut.		
B. The inner and outer portions of the trip hinge assembly shall be joined by upper and lower linkages, which allow the wing to "trip" out of the way when obstacles are contacted		
C. Trip force shall be provided by a Timbren Aeon hollow rubber spring, model number A760-75, with a nominal rated capacity of 11,000 lbs., a nominal height of 9.25", nominal OD of 5.31", and a maximum deflection of 5.00". Trip force shall be adjustable by means of tightening or loosening a nylon-insert locknut, which modifies the degree of preload compression on the Timbren spring. (No Exceptions)		
PUSHBEAM ASSEMBLY:		
A. Shall include two push beam assemblies, one upper and one lower		
B. Each push beam assembly shall consist of an outer tube assembly with spring cage, an inner tube assembly, and a compression spring, and shall provide for a minimum of (3) telescoping adjustment positions.		
C. The outer tube assembly shall consist of 2.88" OD x 2.32" ID steel tubing, with a 1" thick ear welded on one end for attachment to the rear structure using a steel knuckle and minimum 1" diameter Grade 8 bolt.		
D. The inner tube assembly shall consist of minimum 2.19" diameter cold-finished solid steel round bar, with a 1" thick ear welded on one end for attachment to the moldboard structure using a steel knuckle and minimum 1" diameter Grade 8 bolt.		
E. Both push beams must include a compression spring for shock absorption. Each spring shall be made from minimum .625" diameter wire, with a free length of 7.00" and a spring rate of 1500 pounds per inch and shall be capable of exerting a minimum force of 4400 lbs. at full compression.		
F. Wing shall be lifted into transport position using a 3" bore x 2" rod x 15" stroke double-acting cylinder. Cylinder rod shall be nitrided for corrosion resistance and chip resistance. Barrel end of cylinder shall attach to the rear slide between the two push beams, and rod end shall attach to a sliding ear assembly on the upper push beam. The rod end of the cylinder must include a spherical bearing to allow for proper freedom of movement and eliminate undue stresses.		

	COMPLY	
	YES	NO
G. The sliding cylinder attachment ear and associated “cage” on the upper push beam shall allow for mechanical float at the discharge end of the wing.		
HYDRAULIC LIFT CYLINDER:		
A. Wing shall be lifted into transport position using a 3" bore x 2" rod x 15" stroke double-acting cylinder. Cylinder rod shall be nitrided for corrosion resistance and chip resistance. Cylinder shall attach to the wing rear attachment and the push beam float link using two 1" Grade 8 bolts.		
B. Wing lift cylinder must include an integral counterbalance valve, built directly into the base of the cylinder, to prevent accidental falling of the wing moldboard in case of hydraulic hose failure or other hydraulic failure.		
C. The rod end of the wing lift cylinder shall include a spherical bearing for attachment to the push beam.		
WING REAR ATTACHMENT – GENERAL:		
<ul style="list-style-type: none"> • Mounting shall be aft of rear tires, using side plates and cross tube, and attaching to pintle plate. 		
WING REAR ATTACHMENT – SIDEPLATES WITH CROSSTUBE:		
A. Rear mount assembly consists of a cross tube assembly using a main member of 6 x 4 x .50" rectangular steel tubing, which extends across the full width of the truck frame underneath the truck and attaches to both frame rails using side plates.		
B. The wing rear attachment shall have a removable ear assembly for attachment of the push beam and lift cylinder. The removable ear assembly shall consist of two .50" thick ears, reinforced with .50" thick x 1" long bushings at each point where the push beam and lift cylinder attach. The two ears shall be welded to a .75" backing plate. The ear assembly, consisting of the ears and backing plate, shall be removable from the wing rear attachment structure by removing a single 1" pin.		
C. The wing rear attachment shall include a 2 degrees of freedom adjustable wing bumper stop to restrict the upward motion of the wing. The wing stop shall be adjustable inboard and outboard of the truck by removing a single .75" pin and telescoping two square tubes, each .38" thick. The wing stop shall additionally be adjustable up and down by means of removing two .50" bolts and rotating the wing stop about a fixed axis.		
D. Rear assembly shall include (2) side plate assemblies, minimum .50" thick x 12" wide, with integrally formed or welded stiffeners providing a total depth of 2.50" minimum on each side.		
E. Rear assembly shall include (2) side plate assemblies, minimum .50" thick x 12" wide, with integrally formed or welded stiffeners providing a total depth of 2.50" minimum on each side.		
F. Rear assembly shall include a safety chain to secure the wing in the stowed position during transport.		
SURFACE PREPARATION AND PAINT:		
A. Unit shall be cleaned of oil, grease, mill scale, coatings, corrosion products, and other foreign materials using a commercial blast cleaning process.		

	COMPLY	
	YES	NO
B. All exterior metal shall be painted using DuPont Dulux Omaha Orange Enamel # 93-082 or Authority approved equivalent. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
WING PLOW LASER:		
A. The laser shall be a green 532nm (Center for Devices and Radiological Health) CDRH class 3A product with under 5mw of laser power. The laser system must be (Code of Federal Regulations) CFR 21-1040 and (Occupational Safety and Health Administration) OSHA compliant.		
B. The main laser housing shall be weatherproof and hermetically sealed and dry nitrogen charged. The laser output window shall have pneumatic snow removal as well as de-icing		
C. The laser shall consist of a 5 micron in-line filter between the laser and trucks pneumatic supply. The outside laser dimensions shall not exceed 7" x 10" x 4" including adjustable mount		
D. The system shall consist of the main laser housing, a 3-pin interconnect cable with mil spec waterproof connector at the laser and a quick disconnect plug in the cab		
E. There shall be a remote-control box located in the cab of the vehicle to turn the laser on and as well as a de-ice/ snow removal selector.		
F. The laser shall be able to be directed 360° in the horizontal axis and a minimum of ± 30° in the vertical.		
G. The system shall have an operating voltage of 12 VDC positive and negative ground.		
H. The system operating temperature shall be -40°F to +122°F.		
WING PLOW FLOODLIGHT:		
A. The wing plow light shall be used to illuminate the operation area of wing plow. discharge from the spinner during salting operations as an indicator to the operator that salt is being dispensed as intended		
B. One (1) Whelen # PFBS12 or Authority approved equivalent, 12 diode, 1,000 lumens, 12v-1.70-amp stud/swivel mount white LED work light.		
C. The light assemblies shall be positioned to identify the wing plow when in operating position.		
D. Wiring shall be "SO" two (2) conductor quick-disconnect weather pack connector and be impervious to weather and salt. Wires going into spinner light fixture shall be sealed with silicone.		
WING PLOW LIGHTS:		
A. A. The wing plow lights shall be used to identify the end of wing plow to rear traffic.		
B. A latched "WING SPOT" switch shall be incorporated with the chassis auxiliary switch panel and shall include the following features:		
1. Placed in position (12) of the Dash switch layout		
2. The switch shall be backlit and labeled "WING SPOT"		

	COMPLY	
	YES	NO
3. 15A circuit protection, Ignition powered		
4. Latching On/Off switch		
5. Reference Drawing: NJTA-DSL01 and NJTA-BBC01		
C. . One (1) steady burn marker light mounted near the outer edge of the wing. This light shall be powered with the parking lights of the truck.		
D. One led strobe light mounted on the rear of the wing angled rearward when wing is deployed. This light shall be grommet mounted in a 3/16" thick stainless-steel mounting flange and welded to a wing plow vertical support rib.		
E. One (1) Whelen # WPLOWZ3A or Authority approved equivalent. Wing Plow light system.		
F. The light assemblies shall be positioned to illuminate the wing plow operation.		
G. The light assemblies shall be two (2) LINZ6 Amber or Authority approved equivalent.		
H. The light assemblies shall be mounted in cast housings for stowed and travel position		
I. Wiring shall be "SO" two (2) conductor quick-disconnect weather pack connector and be impervious to weather and salt. Wires going into spinner light fixture shall be sealed with silicone.		
J. A latched "Wing Strobe" switch shall be incorporated with the chassis auxiliary switch panel and shall include the following features:		
1. Placed in position (11) of the Dash switch layout		
2. The switch shall be backlit and labeled "WING STROBE"		
3. 15A circuit protection, Ignition powered		
4. Latching On/Off switch		
5. Reference Drawing: NJTA-DSL01 and NJTA-BBC01		
WING PLOW CAMERA:		
A. The camera shall be a black Voyager VCMS20B CMOS block style with night vision mounted in the MSF5001 Stainless steel Camera box with 6" adjustable mount and will connect to the Back-up Camara monitor, this camera is in addition to the back-up camera.		
B. The camera system shall also have the MSF8470037000-LR-A camera wash kit with 1 nozzle for single camera cleaning.		
C. The system will have a supplied washer pump installed in the factory washer fluid reservoir at the level of 1/3 of the total capacity of the washer tank so that the camera wash system runs out of fluid prior to the truck's windshield wash system.		
D. The system will include all wires, tubes, and lines to make the system operational.		
E. All wires shall be contained in a loom and all connectors shall have dielectric grease.		
F. The mounting location of the Screen and Backup Camera will be determined at the mockup inspection		
G. The system shall have the ability to be connected to a DVR for recording purposes		

	COMPLY	
	YES	NO
OPTIONAL WING PLOW SPRING PACKAGE:		
<ul style="list-style-type: none"> • Suspension installed shall have correct displacement of proper chassis ride height with wing plow installed or uninstalled. Use of additional spring build up is not acceptable (No Exceptions). 		
<ul style="list-style-type: none"> • If suspension needs assistance, Timbren or Airbag must be presented for approval, along with justification at time of bid. 		

UNIT INFORMATION FORM

SINGLE AXLE TRUCK CHASSIS:

YEAR: _____ MAKE: _____ MODEL: _____

ENGINE MAKE: _____

MODEL: _____ CID: _____ HP: _____ @ _____ RPM

ALTERNATOR MAKE: _____ MODEL: _____

AMPS: _____

BATTERY VOLTS/AMPS: _____

C.C.A. @ O° F: _____

TRANSMISSION MAKE: _____

MODEL: _____

BACK-UP ALARM MAKE: _____

TIRE SIZES: FRONT: _____ REAR: _____

MAKE: _____ MODEL: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

COMBINATION DUMP BODY WITH TWIN AUGERS:

DESCRIPTION: _____

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

HYDRAULIC SYSTEM:

MAKE: _____

HYDRAULIC PUMP
MODEL: _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

10' PATROL WING SNOWPLOW:

MAKE: _____ MODEL: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

NO RESPONSE BID SURVEY

BID REQUISITION NUMBER: R-171324

PROPOSAL TITLE: SINGLE AXLE DUMP TRUCKS WITH ACCESSORIES

If you do not choose to respond to this Bid, please complete this form and email to jparmigiani@njta.com

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

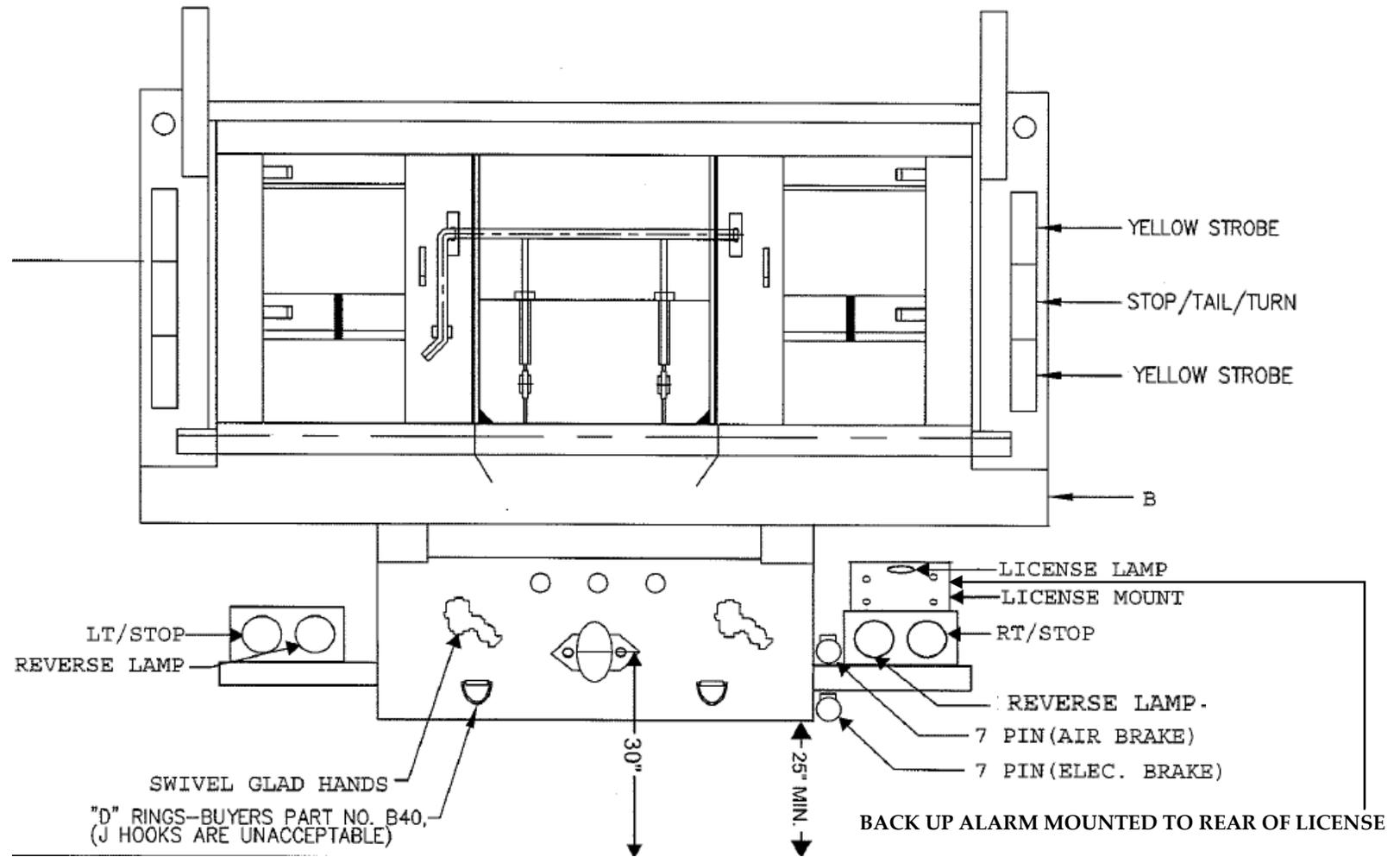
Additional comments: _____

Signed :(optional) _____

Company: _____

NEW JERSEY TURNPIKE AUTHORITY

REVISIONS		REAR OF TRUCK - LAMPS, 7 POLE, GLAD HANDS, PINTLE HOOK, SAFETY CHAIN HOOKS, BACK UP ALARM LOCATIONS	SCALE: N.T.S.	NJTA-1002



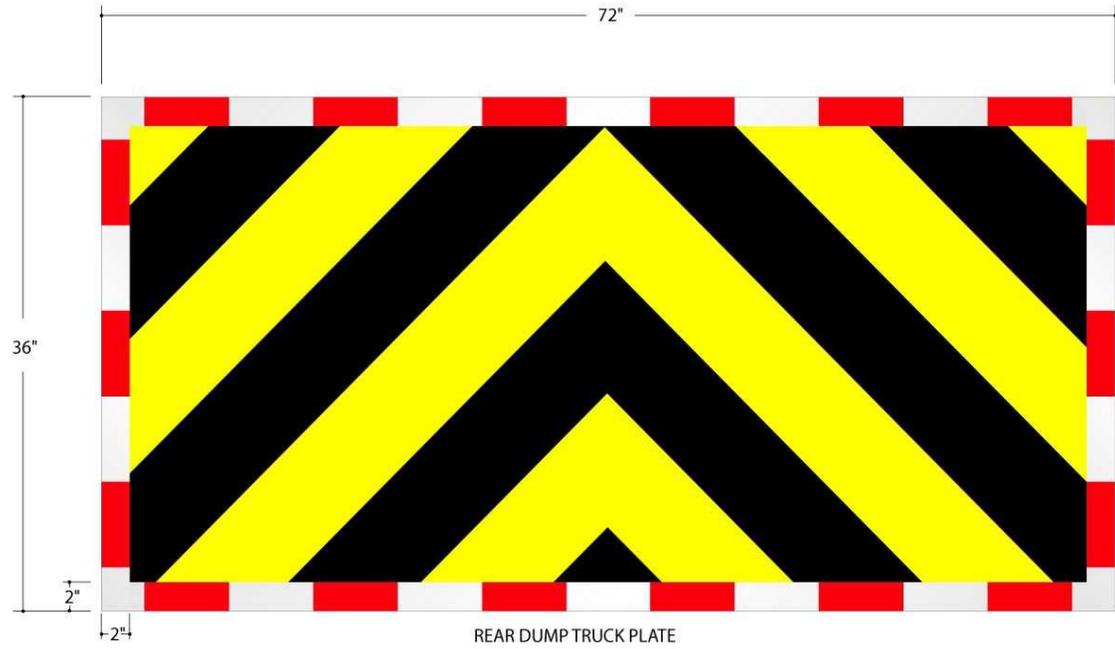
THIS DRAWING SHALL BE FOR EQUIPMENT LOCATION REFERENCE ONLY, NOT FOR TAILGATE CONSTRUCTION.

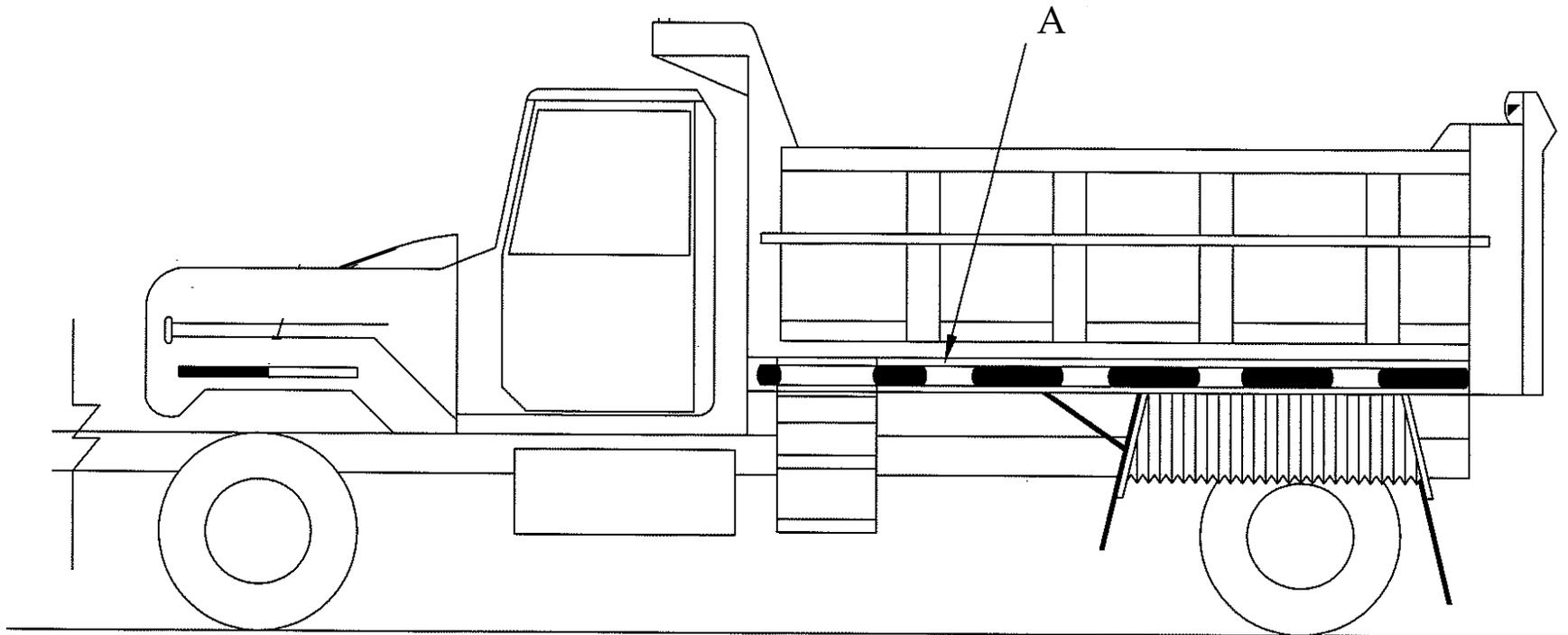
1. All stripes will be six (6) inches wide, forty-five (45) degrees from vertical.
 - a) The yellow stripes shall be Diamond Grade Fluorescent Yellow VIP Reflective Sheeting-3981, pressure sensitive or approved equivalent.
 - b) The black stripes shall be Scotchcal 3650-12, pressure sensitive or approved equivalent.

2. There shall be a Diamond Grade Conspicuity Marking 981-326, Red 6", White 6" both 2" high, surrounding the top, bottom, and both sides of the stripes, pressure sensitive.

3. The entire rear of the truck body shall be fully covered without covering any lights or accessories.

4. All materials shall be manufactured and applied as approved by the manufacturer





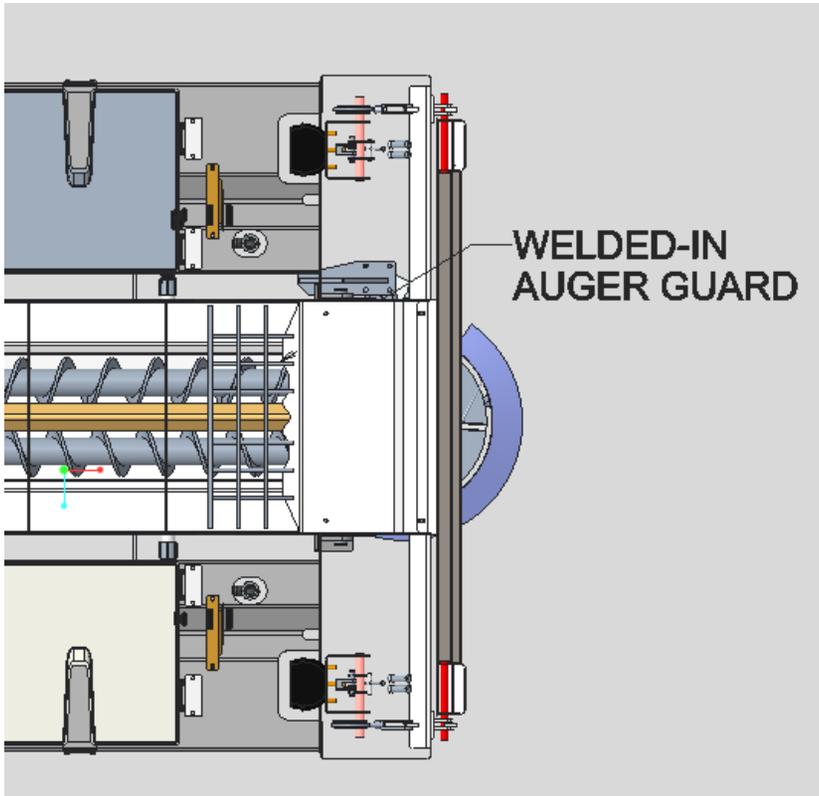
A. There shall be a Diamond Grade Conspicuity Marking 981-326, Red 6", White 6" both 2" high, and shall be full length of body.

NEW JERSEY TURNPIKE AUTHORITY				
REVISIONS			SPECIFICATIONS FOR CONSPICUITY ENHANCEMENT TAILGATE AND DUMP BODY SIDE	
			SCALE: N.T.S.	NJTA-CE01
				SHEET 1 OF 2



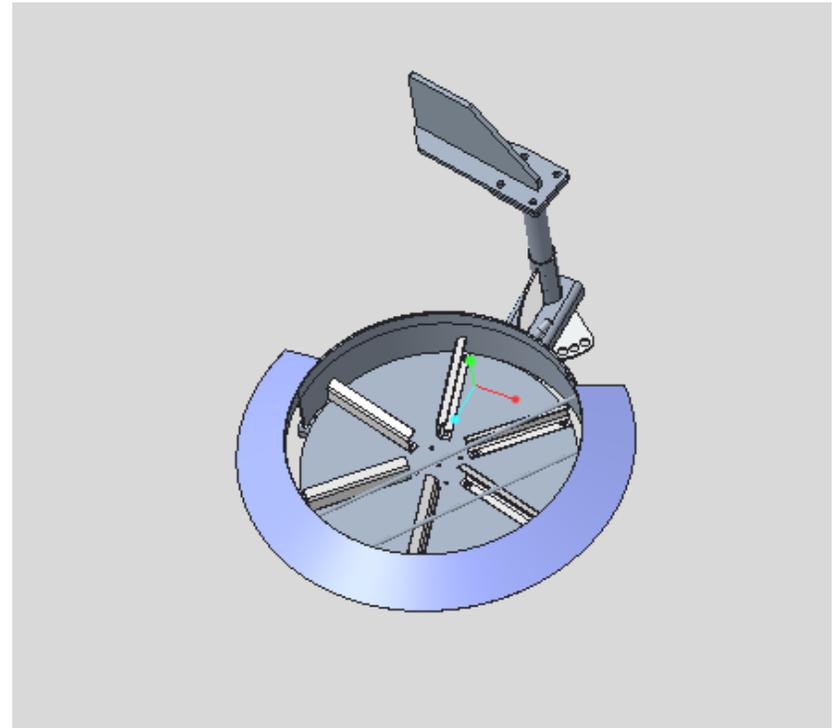
Example of material applied to tailgate assembly; picture shall be for marking example not for tailgate construction.

NEW JERSEY TURNPIKE AUTHORITY				
REVISIONS			SPECIFICATIONS FOR CONSPICUITY ENHANCEMENT TAILGATE AND DUMP BODY SIDE	
			SCALE: N.T.S.	NJTA-CE01
				SHEET 2 OF 2



WELDED-IN
AUGER GUARD

Safety - Auger Guard



Frame mounted Spinner with adjustable swing arm

NEW JERSEY TURNPIKE AUTHORITY			
REVISIONS		AUGER AND SPINNER OPENING & MOUNTING	
		SCALE: N.T.S.	NJTA-1003
			SHEET 1 OF 1

NEW JERSEY TURNPIKE AUTHORITY

7-Way, Round Pin, Trailer
Connectors for Authority Trucks
and Trailers

REVISIONS		

7-POLE ROUND PIN TRAILER CONNECTORS / ELECTRIC BRAKE

SCALE: N.T.S.

7PTCEB

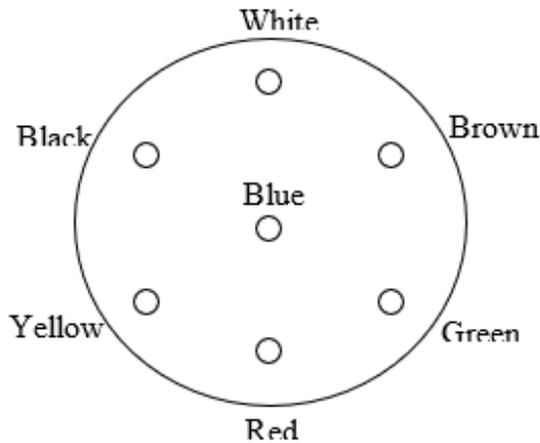
SHEET 1 OF 1

CONNECTOR MARKING COLOR

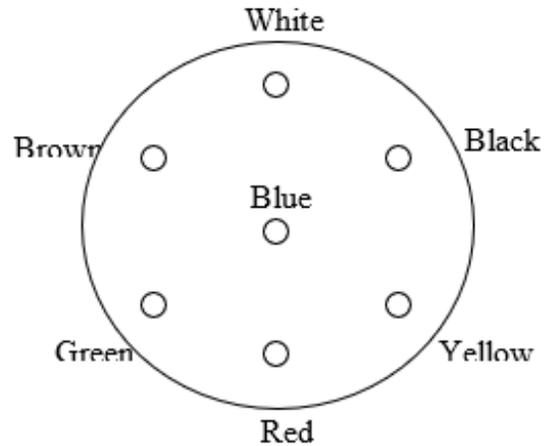
APPLICATION

WHITE.....	GROUND
BLACK.....	TAIL LIGHT
BROWN.....	TAIL LIGHT
YELLOW.....	LEFT TURN SIGNAL
GREEN.....	RIGHT TURN SIGNAL
RED.....	ELECTRIC BRAKE
BLUE.....	12-VOLT BATTERY- WITH 30-AMP AUTOMATIC BIMETAL THERMAL RESET CIRCUIT PROTECTION

SOCKET MARKINGS



PLUG MARKINGS



NEW JERSEY TURNPIKE AUTHORITY

7-Way, Round Pin, Trailer Connectors
for Authority Trucks and Trailers

REVISIONS			TRAILER CONNECTION / ABS AIR BRAKE CONTROL	
			SCALE: N.T.S.	TCAABC-2018
				SHEET 1 OF 1

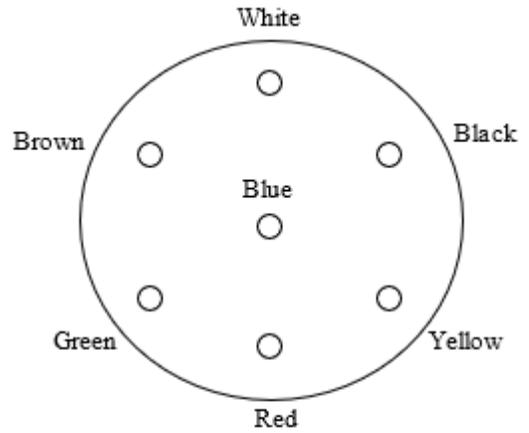
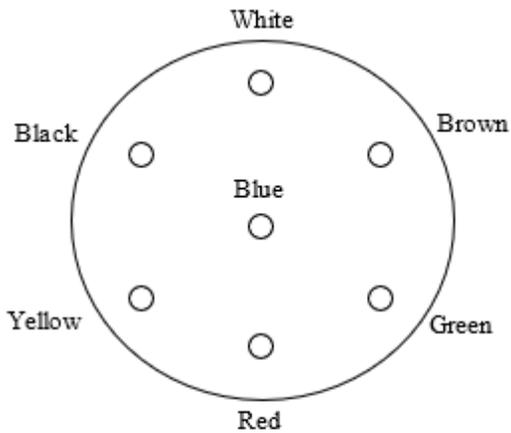
CONNECTOR MARKING COLOR

APPLICATION

WHITE..... GROUND
 BLACK..... TAIL LIGHT
 BROWN..... TAIL LIGHT
 YELLOW..... LEFT TURN SIGNAL
 GREEN..... RIGHT TURN SIGNAL
 RED..... STOP LAMPS
 BLUE..... ABS POWER

SOCKET MARKINGS
GREEN RECEPTICLE

PLUG MARKINGS



NEW JERSEY TURNPIKE AUTHORITY

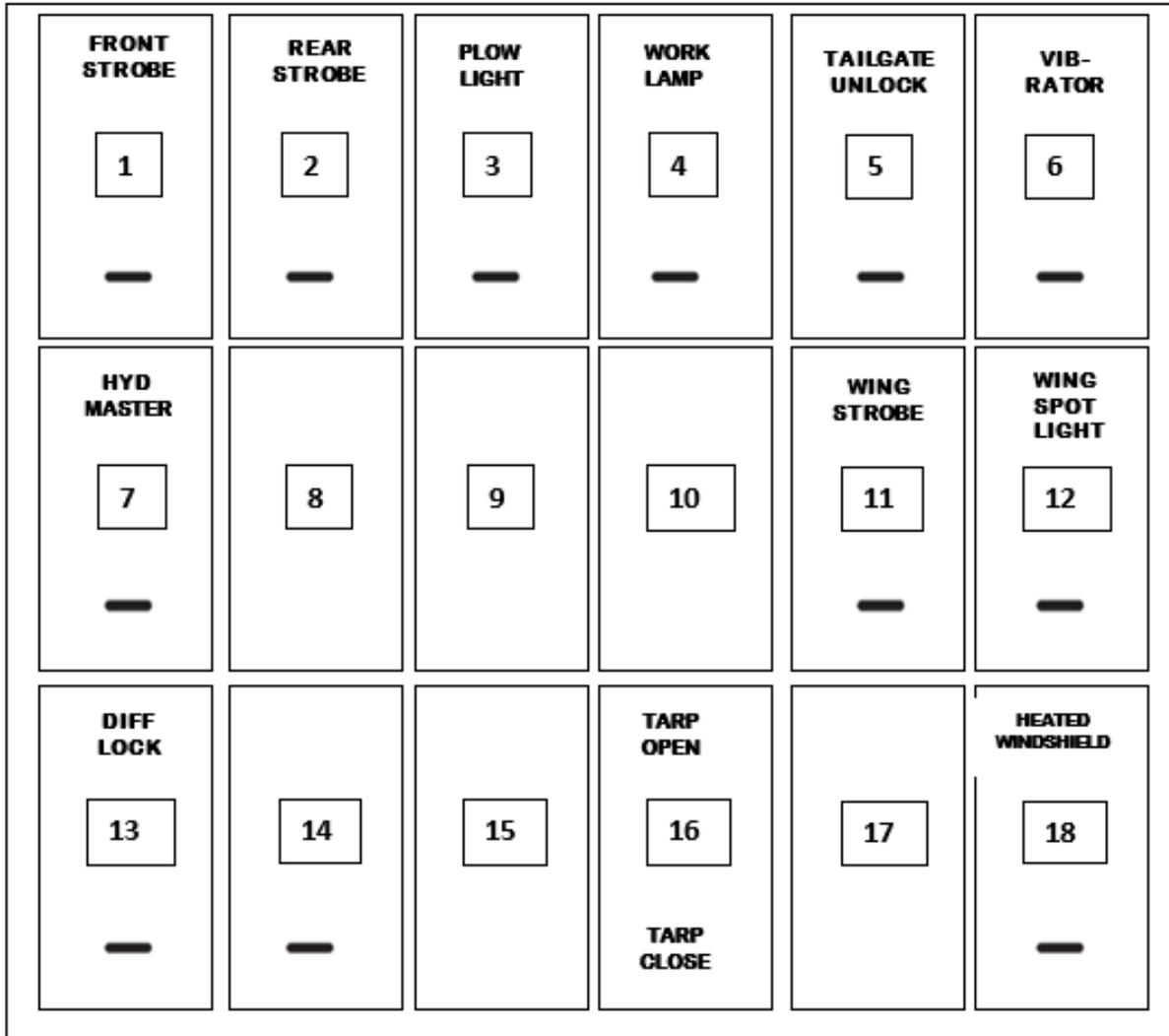
REVISIONS

DASH SWITCH LAYOUT

SCALE: N.T.S.

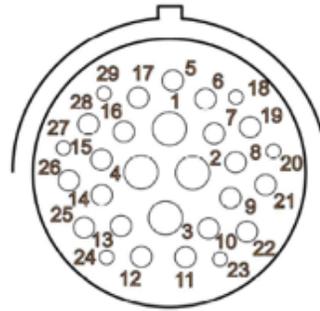
NJTA-DSL01

SHEET 1 OF 1



NEW JERSEY TURNPIKE AUTHORITY

REVISIONS			BODY BUILDER CONNECTION		
				SCALE: N.T.S.	NJTA-BBC01
					SHEET 1 OF 1



POLE	DESCRIPTION
1	Battery Power (30A)
2	Ignition Power (30A)
3	Stop Lamp
4	Tail Lamp
5	Reverse Signal
6	LH Turn
7	RH Turn
8	Switch # 1 "Light Bar" 20 Amp (IGN)
9	Switch # 2 "Rear Strobe" 20 Amp (IGN)
10	Switch # 4 "Work Lamp" 15 Amp (IGN)
11	Switch # 5 "Tailgate" 15 Amp (IGN)
12	Switch # 6 "Vibrator" 15 Amp (IGN)
13	Switch # 11 "Wing Strobe" 20 Amp (IGN)
14	Switch # 12 "Wing Spot Lamp" 15 Amp (IGN)
15	Parking Brake
16	Neutral Signal
17	Indicator Switch (body Lamp)
18	PTO #1 – CA29
19	PTO #2 – CB7
20	Speed Control ON/OFF
21	BB J11939 +
22	BB J1939 -
23	Speed Control SET/DECEL
24	Speed Control Resume/Accel
25	Switch # 16 "Tarp Open" 15 AMP (IGN)
26	Switch # 16 "Tarp Close" 15 AMP (IGN)
27	LH Turn/Stop
28	Switch # 7 "HYD MASTER" 20 AMP (IGN)
29	RH Turn/Stop



NEW JERSEY TURNPIKE AUTHORITY

P.O. Box 5042
Woodbridge, New Jersey 07095
or
1 Turnpike Plaza
Woodbridge, New Jersey 07095
Tel. – 732-750-5300
Fax – 732-750-5399

INSTRUCTIONS TO BIDDERS

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 & 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.

- 1) Anti-discrimination provision required by *N.J.S.A. 10:2-1* In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates.
- 2) No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex.
- 3) There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$ 50.00 for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the contract; and
- 4) This contract may be canceled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the contracting public agency of any prior violation of this section of the contract.

B-1 Equal Pay Reporting Requirement Pursuant to N.J.S.A. 34:11-56.1 et seq.

Pursuant to the Diane B. Allen Equal Pay Act (*N.J.S.A. 34:11-56.1 et seq.*), any employer, regardless of the location of the employer, that enters into a contract with the Authority to provide any service that is not a public work as defined by *N.J.S.A. 34:11-56.25 (5)* must file annual Equal Pay Reports with the New Jersey Commissioner of Labor and Workforce Development, including information regarding the compensation and hours worked by employees categorized by gender, race, ethnicity and job category. Forms and instructions for Equal Pay Reports have been adopted for services contractors, which forms must be filed annually by March 31 for the preceding year, using employment figures from any period in October through December. See <https://nj.gov/labor/equalpay.html>.

C. OWNERSHIP DISCLOSURE FORM-Bidders who are corporations, partnerships or limited liability companies must comply with P.L. 1977, c. 33, N.J.S.A. 52:25-24.2, by completing the Ownership 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. 19:44 A-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 do so 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. 34:11-56.51*, 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 can submit a valid copy of their Public Works Contractor Registration Certificate and valid copies of the Registration Certificates for all subcontractors along with the bid, but the certificate(s) must be submitted prior to contract award. The Registration Certificate(s) shall be maintained at the worksite and shall be made readily available for inspection at any time. Pursuant to *N.J.S.A. 34:11-56.55* applications for registration shall not be accepted as a substitute for a Registration Certificate for subcontractors.

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. Foreign corporations must obtain a certificate of authority to do business in NJ pursuant to *N.J.S.A. 14A:13-3*. 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 Revenue and Enterprise Services (“Division”) in the Department of the Treasury (*N.J.A.C. 17:13-1.2*) have the opportunity to compete for and participate in the performance of contracts and subcontract 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.S.A. 52:32-17 et seq.* and *N.J.A.C. 17:13-1 et seq.* 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.

- 1) No vendor shall pay, offer to pay, or agree to pay, either directly or indirectly, any fee, commission, compensation, gift, gratuity, or other thing of value of any kind to any State officer or employee or special State officer or employee, as defined by *N.J.S.A. 52:13D-13b.* and e., in the Department of the Treasury or any other agency with which such vendor transacts or offers or proposes to transact business, or to any member of the immediate family, as defined by *N.J.S.A. 52:13D-13i.*, of any such officer or employee, or any partnership, firm, or corporation with which they are employed or associated, or in which such officer or employee has an interest within the meaning of *N.J.S.A. 52:13D-13g.*
- 2) The solicitation of any fee, commission, compensation, gift, gratuity or other thing of value by any State officer or employee or special State officer or employee from any State vendor shall be reported in writing forthwith by the vendor to the Attorney General and the Executive Commission on Ethical Standards.
- 3) No vendor may, directly or indirectly, undertake any private business, commercial or entrepreneurial relationship with, whether or not pursuant to employment, contract or other agreement, express or implied, or sell any interest in such vendor to, any State officer or employee or special State officer or employee having any duties or responsibilities in connection with the purchase, acquisition or sale of any property or services by or to any State agency or any instrumentality thereof, or with any person, firm or entity with which he is employed or associated or in

which he has an interest within the meaning of *N.J.S.A. 52:13D-13g*. Any relationships subject to this provision shall be reported in writing forthwith to the Executive Commission on Ethical Standards, which may grant a waiver of this restriction upon application of the State officer or employee or special State officer or employee upon a finding that the present or proposed relationship does not present the potential, actuality or appearance of a conflict of interest.

- 4) No vendor shall influence, or attempt to influence or cause to be influenced, any State officer or employee or special State officer or employee in his official capacity in any manner which might tend to impair the objectivity or independence of judgment of said officer or employee.
- 5) No vendor shall cause or influence, or attempt to cause or influence, any State officer or employee or special State officer or employee to use, or attempt to use, his official position to secure unwarranted privileges or advantages for the vendor or any other person.
- 6) The provisions cited shall not be construed to prohibit a State officer or employee or special State officer or employee from receiving gifts from or contracting with vendors under the same terms and conditions as are offered or made available to members of the general public subject to any guidelines the Executive Commission on Ethical Standards may promulgate as stated above.

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. The statute 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.

J-1 DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN- Pursuant to *N.J.S.A. 52:32-58*, the bidder must certify that neither the bidder, nor one of its parents, subsidiaries, and/or affiliates (as defined in *N.J.S.A. 52:32-56(e)(3)*), is listed on the Department of the Treasury's List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in *N.J.S.A. 52:32-56(f)*. If the bidder is unable to so certify, the bidder shall provide a detailed and precise description of such activities. Bidders must include with their bid a completed Disclosure of Investment Activities in Iran, attached hereto as Exhibit G-1.

J-2 RUSSIA INTERIM CERTIFICATION - Prior to the time a contract is awarded, pursuant to P.L.2022, c.3, the successful Bidder must certify that neither the successful Bidder, nor one of its parents, subsidiaries, or affiliates may have engaged in prohibited activities in Russia or Belarus. If the successful Bidder is unable to so certify, the Bidder shall provide a detailed and precise description of such activities to the Authority. Failure to provide such description will result in the Proposal being rendered as non-responsive, and the Authority will not be permitted to contract with such person or entity, and if a Proposal is accepted or contract is entered into

without delivery of the certification, appropriate penalties, fines and/or sanctions will be assessed as provided by law.

If the Bidder certifies that the Bidder is engaged in activities prohibited by P.L. 2022, c. 3, the Bidder shall have 90 days to cease engaging in any prohibited activities and on or before the 90th day after this certification, shall provide an updated certification. If the Bidder does not provide the updated certification or at that time cannot certify on behalf of the entity that it is not engaged in prohibited activities, the State shall not award the business entity any contracts, renew any contracts, and shall be required to terminate any contract(s) the business entity holds with the State that were issued on or after the effective date of P.L. 2022, c. 3.

The Authority requests that all Bidders submit a copy of the form entitled "Certification of Non-involvement in Prohibited Activities in Russia or Belarus Pursuant to P.L.2022, c.3" with their Proposal. **Bidders must include with their bid a completed Certification of Non-Involvement in Activities in Russia, attached hereto as Exhibit G-2.**

- 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 provide a copy of Exhibit H acknowledging that they have received notice of the State's right of set-off prior to contract award.
- L. MSDS REQUIREMENTS**-Any vendor, Vendor, 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, Vendor 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) regulation, *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 Purchasing 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 AND MISCELLANEOUS CONTRACT REQUIREMENTS

- 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 SECURITY**-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 ensure 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. ELECTRONIC PAYMENT** - With the award of this contract, the successful vendor(s) will be required to receive their payment(s) electronically and invoices should be emailed to; invoicefb@njta.com In order to receive your payments via automatic deposit from the Authority, complete and return the "Authorization Agreement for Direct Payments (ACH Credits)" Form with an **original voided check or bank letter**. The form must include ABA number (routing or transit number), bank account number and if the bank account is a checking or savings account. The form and instructions are located in the Instruction to Bidders on the Authority's website <http://www.state.nj.us/turnpike/purchasing.html>. The completed form along with the required voided check or bank letter should be emailed to achvendor@njta.com

E. 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. The Authority reserves the right to request and obtain complete copies of all insurance policies showing that it has complied with this Section. All certificate(s) and notices of cancellation or change shall be mailed to: Director, Purchasing 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 \$2,000,000.00
- Personal injury each occurrence \$2,000,000.00
- General Aggregate \$2,000,000.00
- Products and Completed Operations 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 provided on the ISO CG 00 01 Form or its equivalent. 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 include an endorsement amending the Contractual Liability coverage to delete the exclusion for work done within fifty feet of the railroad, an MCS 90 as required by law and the ISO CA 99 48.

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. **Umbrella Liability Insurance.**

Umbrella liability insurance is required with limits **in excess** of those underlying policies stated under parts (a) Commercial General Liability, (b) Commercial Automobile Liability and (c) Employers' Liability with minimum limits as follows:

Minimum limit each occurrence and annual aggregate.....\$3,000,000
Limits can be achieved in any combination of primary and excess limits.

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

5. **Certificate and Endorsement Requirements**

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

- (a) Sixty (60) days' notice of cancellation or any restriction in coverage by registered mail to the Authority.
- (b) All policies, except Workers Compensation and Employers' Liability Insurance, shall contain a waiver of subrogation clause in favor of the Authority.
- (c) With respect to the Workers' Compensation and Employers' Liability, this policy shall contain a waiver of subrogation in favor of the Authority, where allowed by law.
- (d) 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 RFB/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 (1) 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 five (5) years from the termination of the contract. In no event shall books and records be disposed of or destroyed of prior to five (5) 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.
1. In accordance with the New Jersey Office of the State Comptroller ("OSC") document retention policy *N.J.A.C. 17:44-2.2* - The vendor shall maintain all documentation related to products, transactions, or services under this contract for a period of five years from the date of final payment. Such records shall be made available to the OSC upon request.
- 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 *N.J.S.A. 27:23-6.1(a)*, 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 mandatory requirements of the bid shall be considered grounds for rejection. The Authority retains the right to reject any or all bids, to waive informalities and minor irregularities and to rebid the entire contract.

Q. LIABILITIES OR DEBTS OWED TO THE AUTHORITY- The failure by any Contractor or subcontractor during the term of the Contract to satisfy in a timely manner any outstanding debts or fees owed to the Authority, whenever incurred, including but not limited to those related to nonpayment of tolls or administrative fees, as required by *N.J.A.C. 19:9-1.19* and *N.J.A.C. 19:9-9.2*, shall be grounds for suspension or termination of the Contract, in the sole discretion of the Authority.

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 chapter 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, race, 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 Proposer and have none of the above, please contact the Procurement and Materials Management Department at **(732) 750-5300 ext. 8628** within five (5) days of notification of award for AA-302 Form. This AA-302 Form must be forwarded to the States' Affirmative Action Office with a copy returned to the Authority's 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
OWNERSHIP DISCLOSURE FORM

BID SOLICITATION: _____ BIDDER/PROPOSER: _____

PART 1

PLEASE COMPLETE THE QUESTIONS BELOW BY CHECKING EITHER THE “YES” OR “NO” BOX. ALL PARTIES ENTERING INTO A CONTRACT WITH THE NEW JERSEY TURNPIKE AUTHORITY ARE REQUIRED TO COMPLETE THIS FORM PURSUANT TO N.J.S.A. 52:25-24.2

PLEASE NOTE THAT IF THE BIDDER/PROPOSER IS A NON-PROFIT ENTITY, THIS FORM IS NOT REQUIRED.

1. Are there any individuals, corporations, partnerships, or limited liability companies owning a **10% or greater** interest in the Bidder/Proposer?

YES NO

IF THE ANSWER TO QUESTION 1 IS “NO”, PLEASE SIGN AND DATE THE FORM.

IF THE ANSWER TO QUESTION 1 IS “YES”, PLEASE ANSWER QUESTIONS 2-4 BELOW.

2. Of those parties owning a 10% or greater interest in the Bidder/Proposer, are any of those parties individuals?

YES NO

3. Of those parties owning a 10% or greater interest in the Bidder/Proposer, are any of those parties **corporations, partnerships, or limited liability companies**?

YES NO

4. If your answer to Question 3 is “YES”, are there any parties owning a **10% or greater** interest in the corporation, partnership, or limited liability company referenced in Question 3?

YES NO

IF ANY OF THE ANSWERS TO QUESTIONS 2-4 ARE “YES”, PLEASE PROVIDE THE REQUESTED INFORMATION IN PART 2.

PART 2

PLEASE PROVIDE FURTHER INFORMATION RELATED TO QUESTIONS 2-4 ANSWERED AS “YES”.

If you answered “YES” for questions 2, 3, or 4 you must disclose identifying information related to the individuals, corporations, partnerships, and/or limited liability companies owning a 10% or greater interest in the Bidder/Proposer. Further, if one or more of these entities is itself a corporation, partnership, or limited liability company, you must also disclose all parties that own a 10% or greater interest in that corporation, partnership, or limited liability company. This information is required by statute.

INDIVIDUALS

NAME _____	DATE OF BIRTH _____	
ADDRESS 1 _____		
ADDRESS 2 _____		
CITY _____	STATE _____	ZIP _____

NAME _____	DATE OF BIRTH _____	
ADDRESS 1 _____		
ADDRESS 2 _____		
CITY _____	STATE _____	ZIP _____

NAME _____	DATE OF BIRTH _____	
ADDRESS 1 _____		
ADDRESS 2 _____		
CITY _____	STATE _____	ZIP _____

Attach Additional Sheets if Necessary.

PART 2 continued

PARTNERSHIPS/CORPORATIONS/LIMITED LIABILITY COMPANIES

ENTITY NAME _____
PARTNER NAME _____
ADDRESS 1 _____
ADDRESS 2 _____
CITY _____ STATE _____ ZIP _____

ENTITY NAME _____
PARTNER NAME _____
ADDRESS 1 _____
ADDRESS 2 _____
CITY _____ STATE _____ ZIP _____

ENTITY NAME _____
PARTNER NAME _____
ADDRESS 1 _____
ADDRESS 2 _____
CITY _____ STATE _____ ZIP _____

Attach Additional Sheets if Necessary.

In the alternative, to comply with the ownership disclosure requirement, a Bidder/Proposer with any direct or indirect parent entity which is publicly traded may submit the name and address of each publicly traded entity and the name and address of each person that holds a 10% or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission or the foreign equivalent, and, if there is any person that holds a 10% or greater beneficial interest , also shall submit links to the websites containing the last annual filings with the federal securities and Exchange Commission or the foreign equivalent and the relevant page number(s) of the filings that contain the information on each person that holds a 10 percent or greater beneficial interest. *N.J.S.A 52:25-24.2.*

CERTIFICATION

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Bidder/Proposer, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the New Jersey Turnpike Authority is relying on the information contained herein, and that the Bidder/Proposer is under a continuing obligation from the date of this certification through the completion of any contract(s) with the New Jersey Turnpike Authority to notify the New Jersey Turnpike Authority in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of my agreement(s) with the New Jersey Turnpike Authority, permitting the New Jersey Turnpike Authority to declare any contract(s) resulting from this certification void and unenforceable.

Signature

Date

Print Name and Title

FEIN/SSN

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 Purchasing 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), a Minority Business Enterprise (MBE), a Veteran Owned Business (VOB) or as a Disabled Veteran Owned Business (DVOB), 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 _____ V O B _____ D V O B _____

COMPANY _____

SIGNATURE _____

NAME _____

TITLE _____

DATE _____

EXHIBIT G
VENDOR DISCLOSURE FORM

Please be advised that in accordance with *N.J.S.A.52:34-13.2*, 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 G-1
NEW JERSEY TURNPIKE AUTHORITY
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN

NAME OF CONTRACTOR /BIDDER: _____

PART 1: CERTIFICATION

CONTRACTORS/BIDDERS **MUST COMPLETE** PART 1 BY CHECKING **EITHER BOX**.

FAILURE TO CHECK ONE OF THE BOXES SHALL RENDER THE PROPOSAL NON-RESPONSIVE.

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list follows this certification and can also be found on the State of New Jersey, Department of Treasury, Division of Purchase and Property website at <http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Contractors/Bidders **must** review this list prior to completing the below certification. **FAILURE TO COMPLETE THE CERTIFICATION WILL RENDER A CONTRACTOR'S/BIDDER'S PROPOSAL NON-RESPONSIVE.** If the Authority finds a person or entity to be in violation of law, it shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

PLEASE CHECK THE APPROPRIATE BOX:

I certify, pursuant to Public Law 2012, c. 25, that neither the contractor/bidder listed above nor any of the contractor's/bidder's parents, subsidiaries, or affiliates is listed on the N.J. Department of the Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). I further certify that I am the person listed above, or I am an officer or representative of the entity listed above and I am authorized to make this certification on its behalf. **I will skip Part 2 and sign and complete the CERTIFICATION below.**

OR

I am unable to certify as above because the contractor/bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the CERTIFICATION below. Failure to provide such will result in the proposal being rendered a non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

Part 2: PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

You must provide a detailed, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the requested information below. Please provide thorough answers to each question. If you need to make additional entries, provide the requested information on a separate sheet

Name _____ Relationship to Contractor/Bidder _____

Description of Activities

Duration of Engagement _____ Anticipated Cessation Date _____

Contractor/Bidder Contact Name _____ Contact Phone Number _____

CERTIFICATION
MUST BE SIGNED BY BIDDER

I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above referenced person or entity. I acknowledge that the New Jersey Turnpike Authority (“Authority”) is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the Authority to notify the Authority in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with the Authority and that the Authority at its option may declare any contract(s) resulting from this certification void and unenforceable.

FULL NAME (print): _____ SIGNATURE _____

TITLE: _____ DATE: _____



EXHIBIT G-2

**CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED ACTIVITIES
IN RUSSIA OR BELARUS PURSUANT TO P.L.2022, c.3**

CONTRACT / BID SOLICITATION TITLE _____

CONTRACT / BID SOLICITATION No. _____

CHECK THE APPROPRIATE BOX

I, the undersigned, am authorized by the person or entity seeking to enter into or renew the contract identified above, to certify that the Bidder is not engaged in prohibited activities in Russia or Belarus as such term is defined in [P.L.2022, c.3](#),¹ section 1.e, except as permitted by federal law.

I understand that if this statement is willfully false, I may be subject to penalty, as set forth in P.L.2022, c.3, section 1.d.

OR

I, the undersigned am unable to certify above because the person or entity seeking to enter into or renew the contract identified above, or one of its parents, subsidiaries, or affiliates may have engaged in prohibited activities in Russia or Belarus. A detailed, accurate and precise description of the activities is provided below.

Failure to provide such description will result in the Proposal being rendered as non-responsive, and the Authority will not be permitted to contract with such person or entity, and if a Proposal is accepted or contract is entered into without delivery of the certification, appropriate penalties, fines and/or sanctions will be assessed as provided by law.

Description of Prohibited Activity

Attach Additional Sheets If Necessary.

If you certify that the Bidder is engaged in activities prohibited by P.L. 2022, c. 3, the Bidder shall have 90 days to cease engaging in any prohibited activities and on or before the 90th day after this certification, shall provide an updated certification. If the Bidder does not provide the updated certification or at that time cannot certify on behalf of the entity that it is not engaged in prohibited activities, the State shall not award the business entity any contracts, renew any contracts, and shall be required to terminate any contract(s) the business entity holds with the State that were issued on or after the effective date of P.L. 2022, c. 3.

Signature of Authorized Representative

Date

Print Name and Title of Authorized Representative

Bidder Name

¹ Engaged in prohibited activities in Russia or Belarus” means (1) companies in which the Government of Russia or Belarus has any direct equity share; (2) having any business operations commencing after the effective date of this act that involve contracts with or the provision of goods or services to the Government of Russia or Belarus; (3) being headquartered in Russia or having its principal place of business in Russia or Belarus, or (4) supporting, assisting or facilitating the Government of Russia or Belarus in their campaigns to invade the sovereign country of Ukraine, either through in-kind support or for profit.

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 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 _____, 201_____, 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.A 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.A 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 20_____.

WITNESS OR ATTEST

[CORPORATE SEAL]

PRINCIPAL

WITNESS OR ATTEST:

[CORPORATE SEAL]

SURETY

EXHIBIT L
CERTIFICATION AND REQUEST FOR WAIVER
OF THE COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE
REQUIREMENT

Purchase Requisition # _____

I hereby request an exemption from the New Jersey Turnpike Authority's Comprehensive Automobile Liability Insurance policy for the above reference Purchase Requisition. I certify that if the company referenced below (hereinafter, "the Company") is the successful low bidder the Company will utilize a recognized, commercial third party shipper (i.e. UPS, Federal Express, DHL, U.S. Postal Service, Air Borne Express, etc..) to deliver all Goods to the New Jersey Turnpike Authority. By signing this certification, a representation is made that no vehicle either owned, rented or leased by the Company will be used for the delivery of any goods to the New Jersey Turnpike Authority, and that, any delivery made will be restricted to the use of third parties providing package delivery service in the ordinary course of business. Accordingly, a waiver of Comprehensive Automobile Liability Insurance is hereby requested.

Company (insert name of Company)

By: _____
(print and sign name)

Title

Date

EXHIBIT M

INSTRUCTIONS FOR DIRECT PAYMENTS (ACH CREDITS)

PLEASE PRINT ALL ENTRIES (except for signature)

COMPANY NAME – Enter your company’s name as registered with the New Jersey Turnpike Authority.

NJTA VENDOR ID NUMBER – Enter the number assigned to your company by the New Jersey Turnpike Authority*.

TELEPHONE NUMBER - Enter your telephone number, including area code.

EMAIL ADDRESS - Enter your email address. You will receive detailed notification of ACH payment.

DEPOSITORY NAME – Enter the name of your depository bank/financial institution.

BRANCH - Enter the name of your bank’s branch office/location.

CITY/STATE/ZIP CODE – Enter your bank’s address.

ROUTING NUMBER (DFI ID) – Enter your bank’s routing number. This is your bank’s nine position American Banking Association number, also known as the bank transit code.

ACCOUNT NUMBER – Enter your checking or savings account number. This is a variable length field.

NAME AND TITLE– Enter the name and title of the person who has the authority to accept ACH payment as an alternative to receiving check payment for your company.

AUTHORIZED SIGNATORY – Enter your signature.

If you require assistance, please call Carol Sabanos at (732) 750-5300, ext. 8149 or email her at achvendor@njta.

Following completion, forward the form (attached with the required **original** voided check or bank letter) to: New Jersey Turnpike Authority, ATTN: Accounts Payable, Finance Department/AP, PO Box 5042, Woodbridge, NJ 07095-5042 **or** you may scan and email the completed form (with the required **original** voided check or bank letter) to achvendor@njta.

New Jersey Turnpike Authority
ATTN: Accounts Payable, Finance Department
PO Box 5042
Woodbridge, NJ 07095-5042

AUTHORIZATION AGREEMENT FOR DIRECT PAYMENTS (ACH CREDITS)

Company Name _____ NJTA Vendor ID _____

Telephone Number _____ Email Address _____

I (we) hereby authorize New Jersey Turnpike Authority (NJTA) to initiate ACH credit entries to my (our) Checking Account / Savings Account (select one) indicated below at the depository financial institution named below, hereafter called DEPOSITORY.

I (we) acknowledge that that origination of ACH transactions to my (our) account must comply with the provisions of U.S. law.

Depository Name _____ Branch _____

City _____ State _____ Zip _____

Routing Number (DFI ID) _____ Account Number _____

This authorization is to remain in full force and effect until New Jersey Turnpike Authority (NJTA) has received written notification from me (or either of us) of its termination in such time and in such manner so as to afford New Jersey Turnpike Authority and DEPOSITORY a reasonable opportunity to act on it.

Name(s) _____ Title _____
(please print)

Date _____ Authorized Signatory _____

PLEASE INCLUDE AN ORIGINAL VOIDED CHECK OR BANK LETTER WITH THIS FORM.

For NJTA use only:

Received by: _____ Date: _____