

GROUP 40590-22910– TRUCKS, HEAVY DUTY (Class 8 Chassis Cab Type with Various Bodies)

PC67251 Cives Price List 12/28/15

Appendix C, Number 2, Contract Pricelist

Contract Group & Award Number:	Group 40590, Award 22910
Contract Number:	PC67251
Contractor Company Name:	Cives Corporation dba Viking Cives (USA)

Name and description of worksheets included in this workbook:

Tab	Tab Description	Tab Color
AppC-2 Summary	Summary of Appendix C, Number 2, Price Pages (this worksheet)	White
Figures	Figures referenced on Base Item Specifications	White
Lot VI ELP Body Systems	Lot VI: Truck Bodies (ELP Interchangeable Body Systems)	Red

New York State - Strategic Sourcing
Request For Comment Spreadsheet - Plow and Body Equipment Figures 1 - 21

This tab contains figures referenced on the Base Item Specifications worksheets.

Figure 1



Figure 2

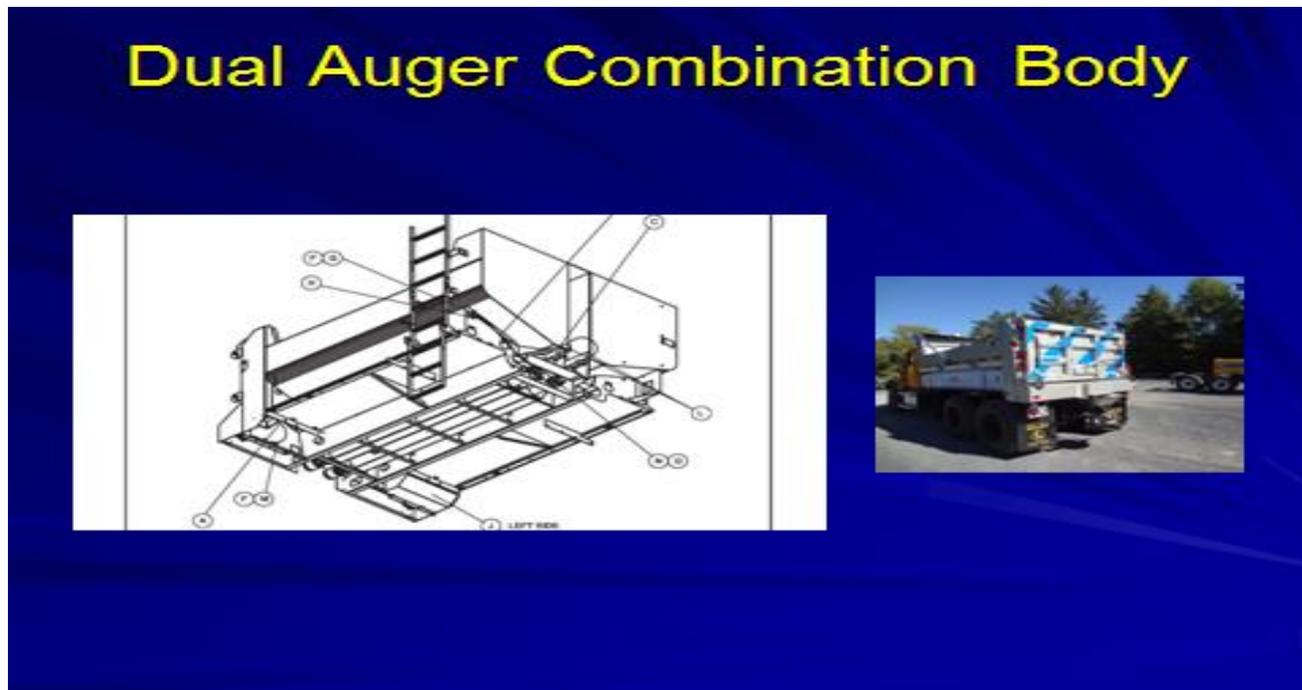


Figure 3

Rear Lighting & Mud Flap



Figure 4



Figure 5

Valve Enclosure-Single Wing



Figure 6

Valve Enclosure Folding Cover



Figure 7

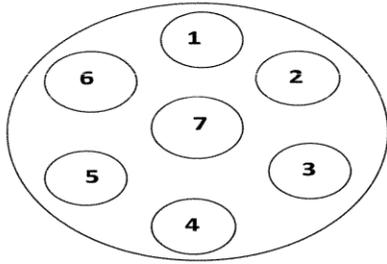


Figure 8

NYS DOT SWITCH CONFIGURATION				
BLANK OR OPTION	BEACON	HEATED MIRROR	HEATED WINDSHIELD	PLOW LIGHTS
ENGINE SPEED ON/OFF	ENGINE SPEED </>	ENGINE BRAKE HI/MED/LOW	BLANK OR OPTION	BLANK OR OPTION
BLANK OR OPTION	HOPPER FLASH LIGHTS	RIGHT FRONT POST LIGHT	RIGHT REAR WING POST LIGHT	REAR SANDER LIGHT
BLANK OR OPTION	BLANK OR OPTION	BLANK OR OPTION	BLANK OR OPTION	BLANK OR OPTION
OEM OR BLANK	OEM OR BLANK	OEM OR BLANK	OEM OR BLANK	OEM OR BLANK

Figure 9

TRAILER PLUG CONFIGURATION TRUCK SIDE.



- Pin #1: Ground circuit
- Pin #2: Marker circuit
- Pin #3: Left hand turn signal and brake light
- Pin #4: Electric trailer brakes
- Pin #5: Right turn signal and brake light
- Pin #6: Tail lights
- Pin #7: Center Pin, Ignition power for ABS and/or charging for breakaway battery

Figure 10



Figure 11

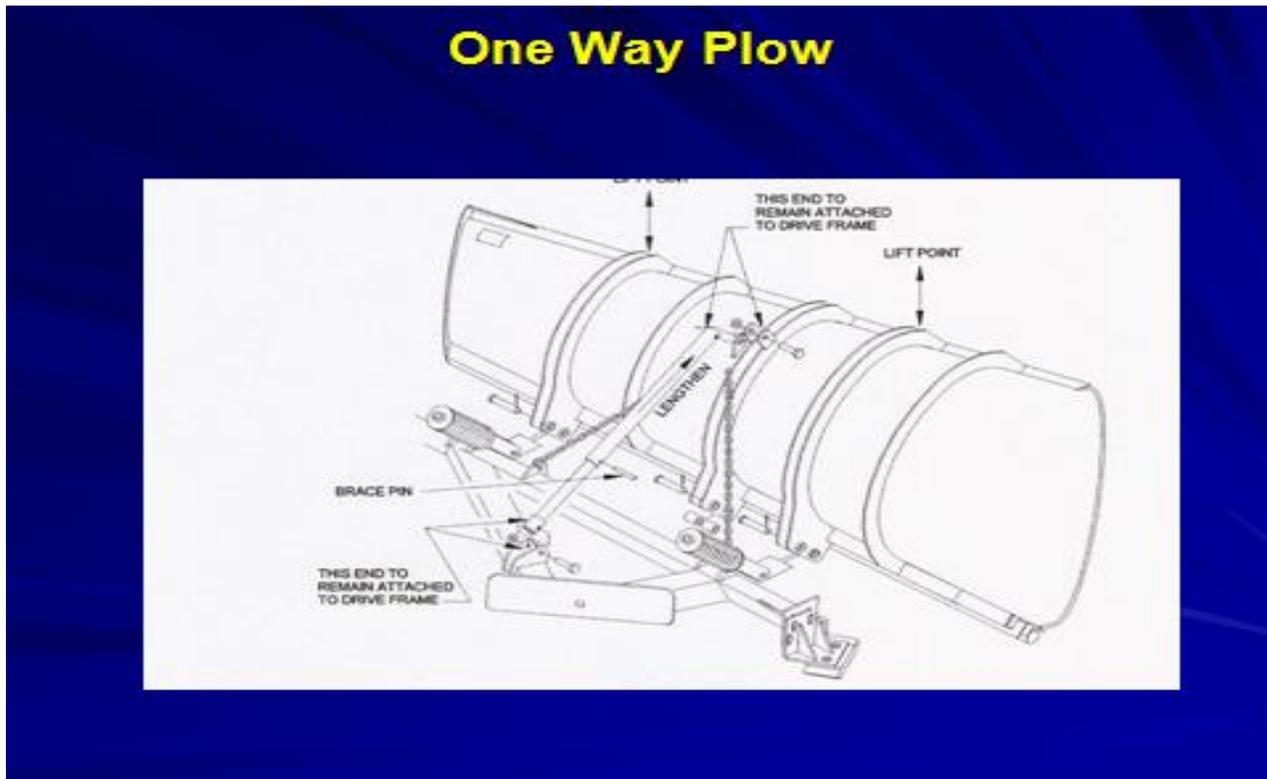


Figure 12

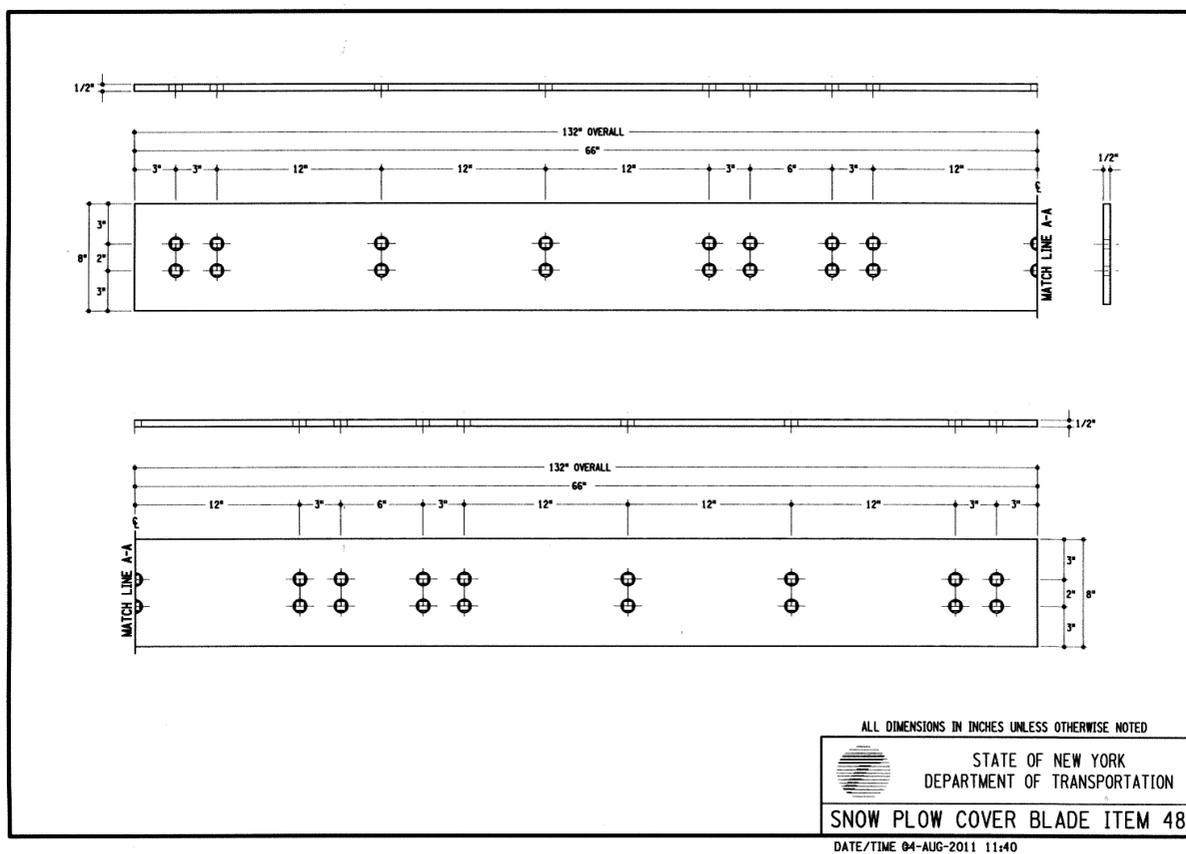


Figure 13

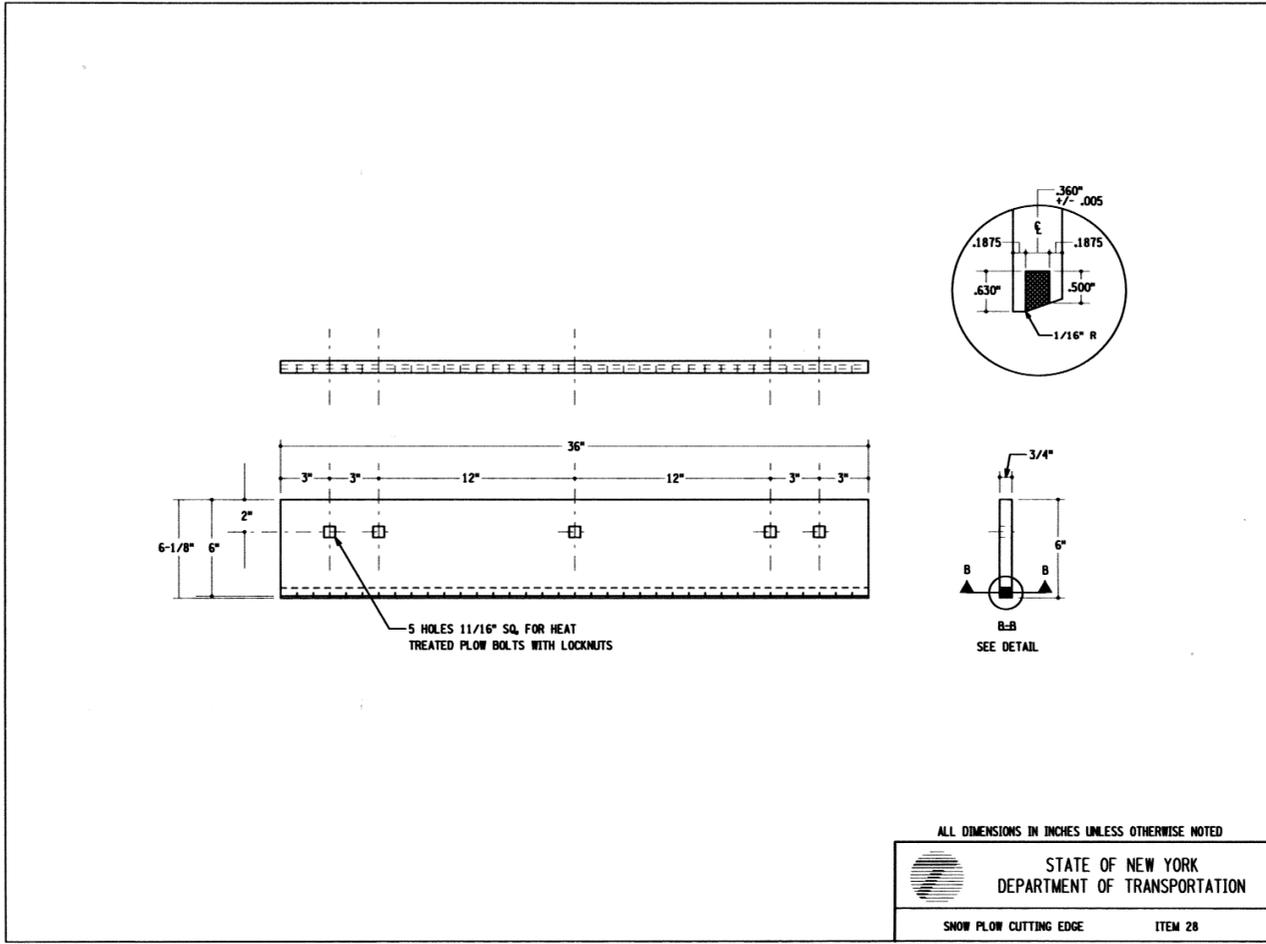


Figure 14

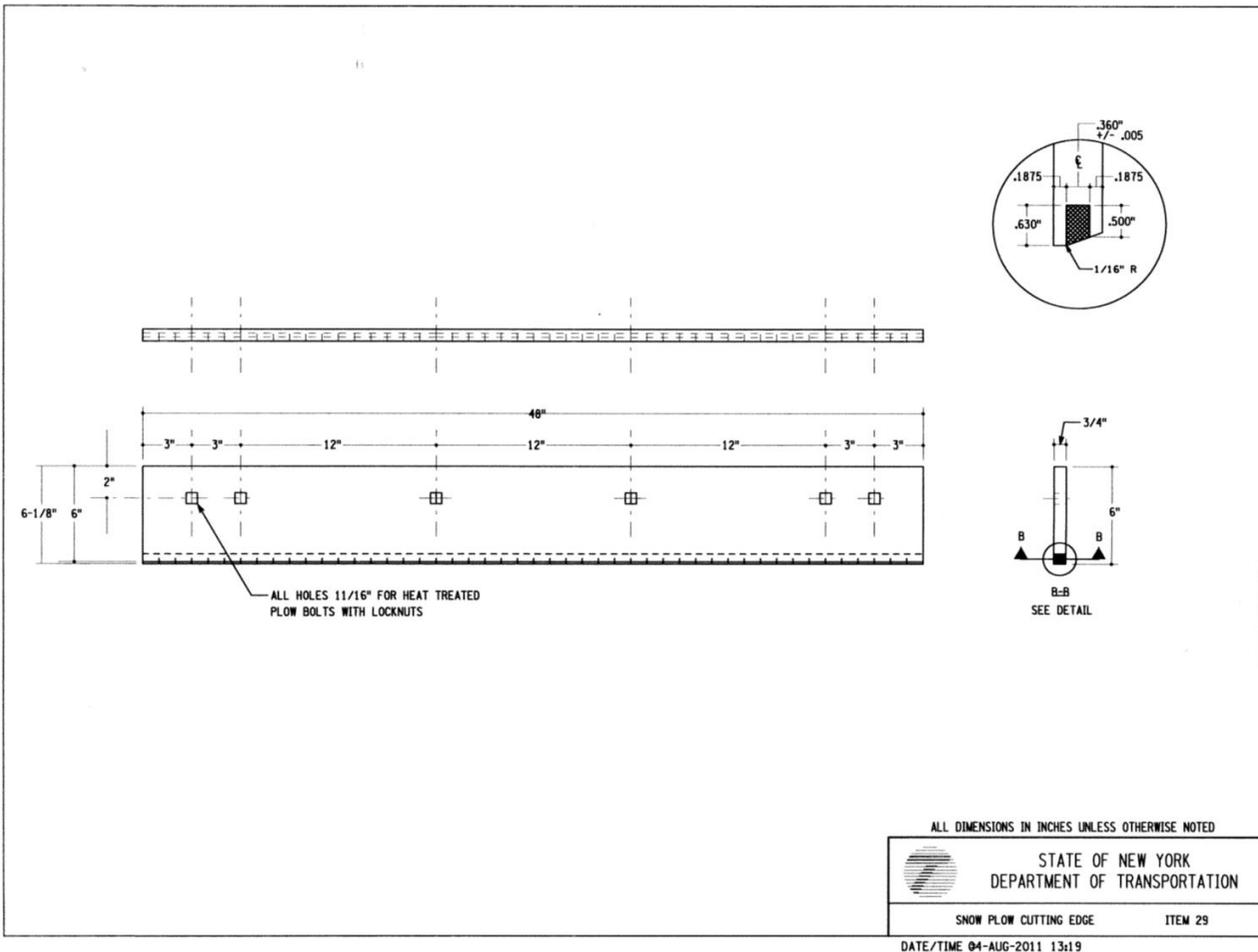


Figure 15

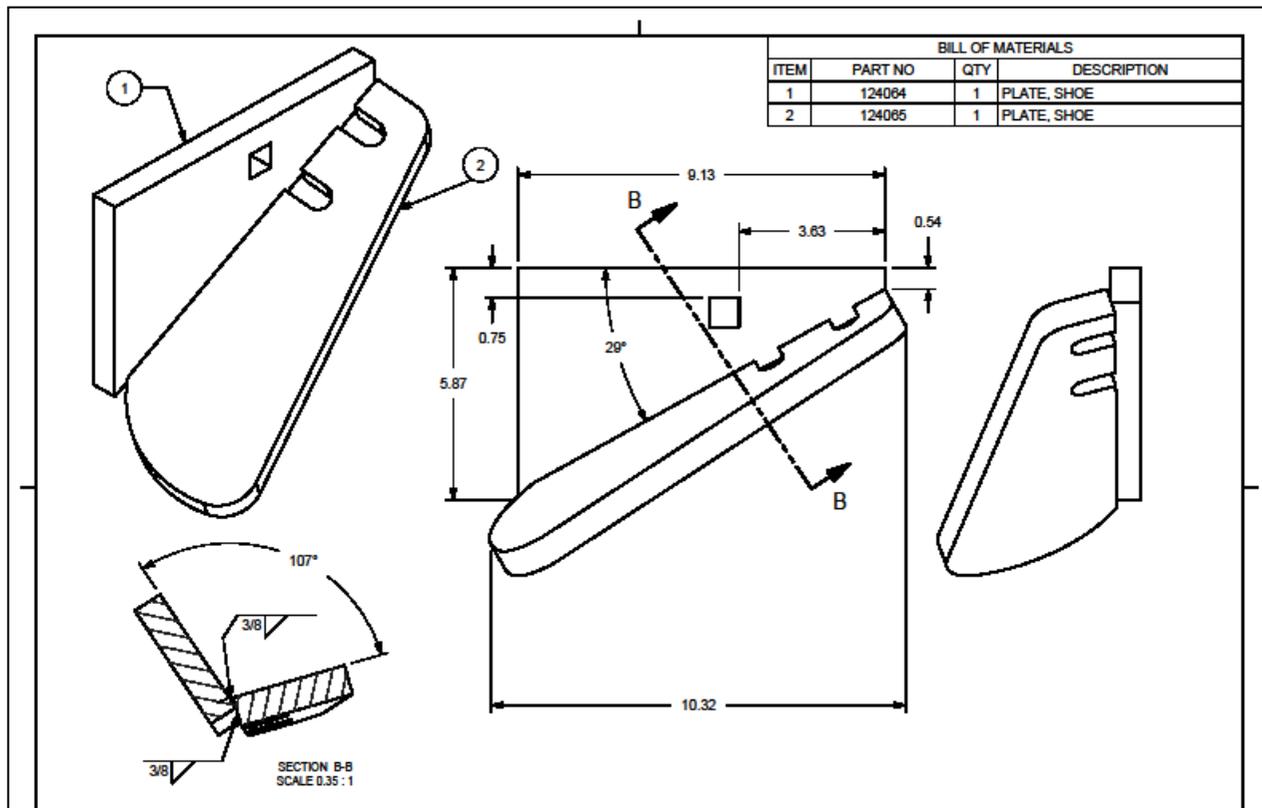


Figure 16

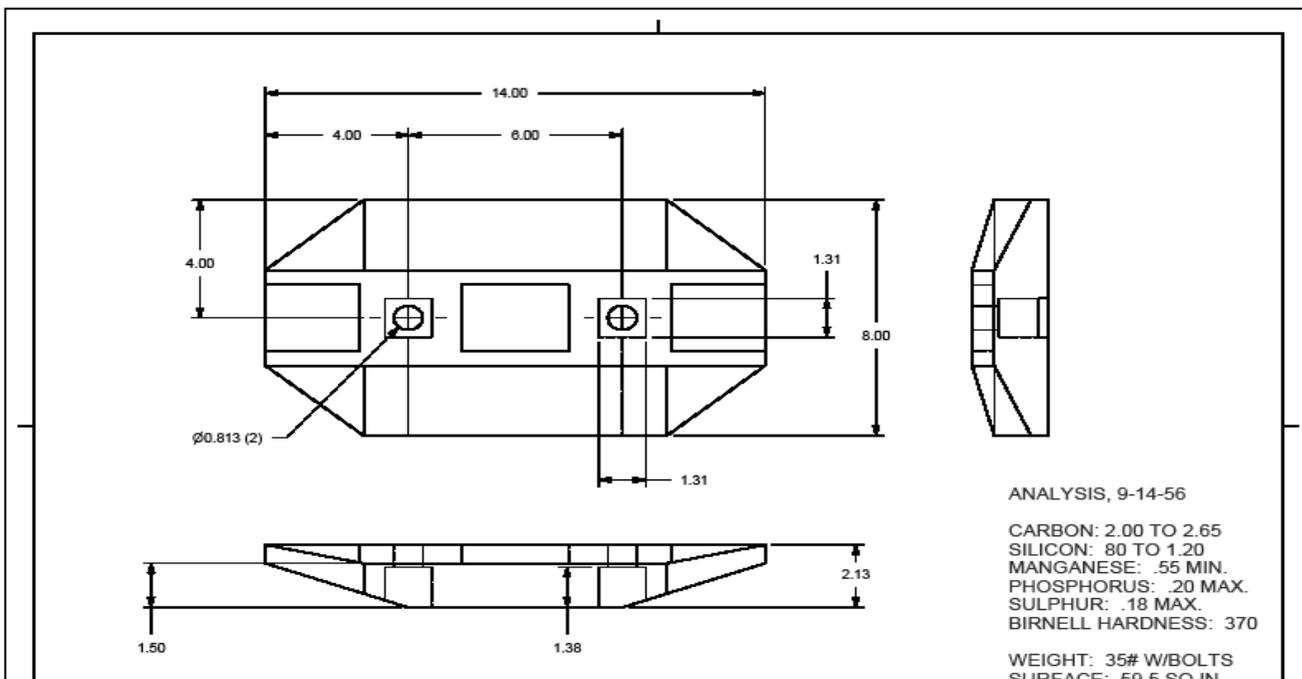


Figure 17



Figure 18

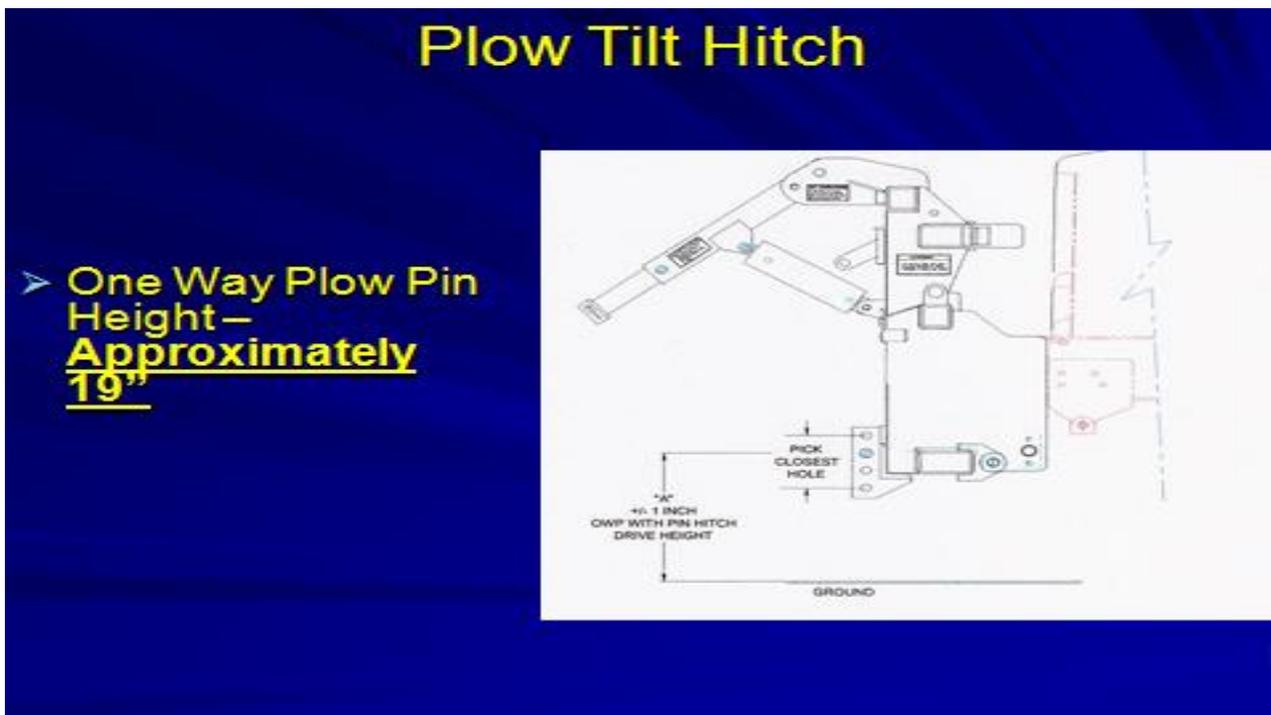


Figure 19

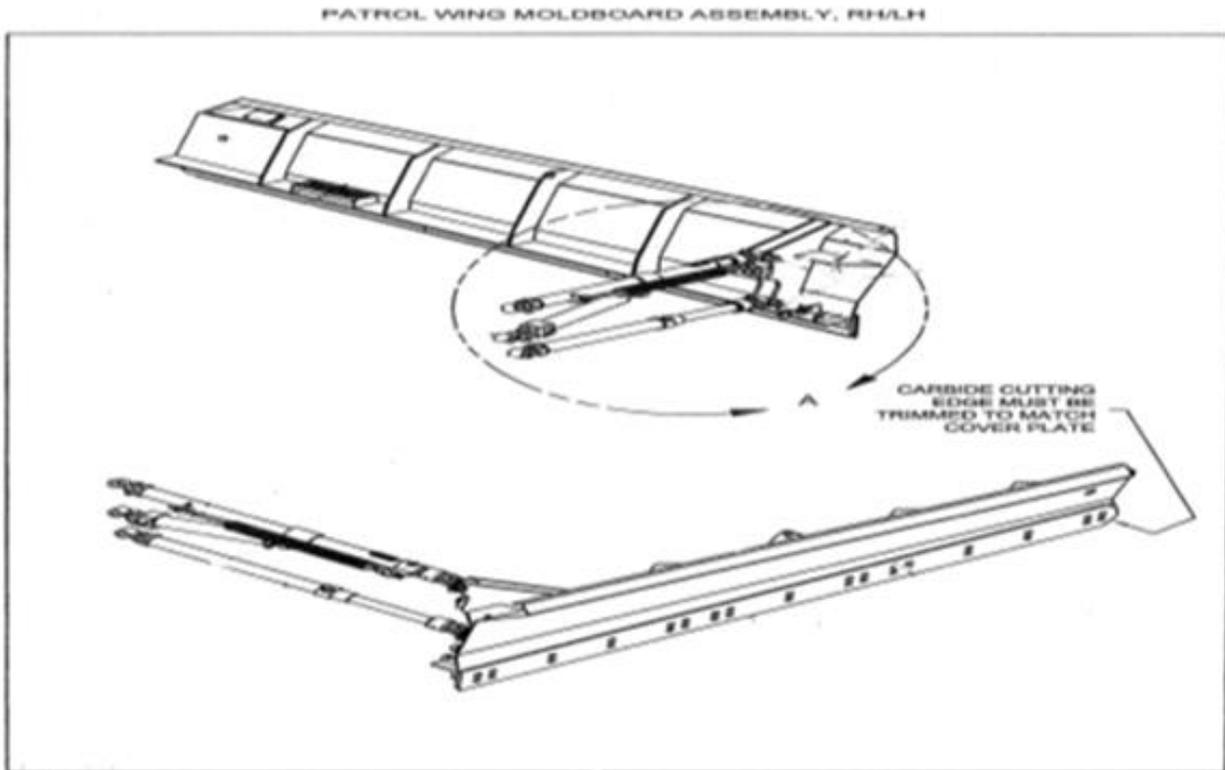


Figure 20

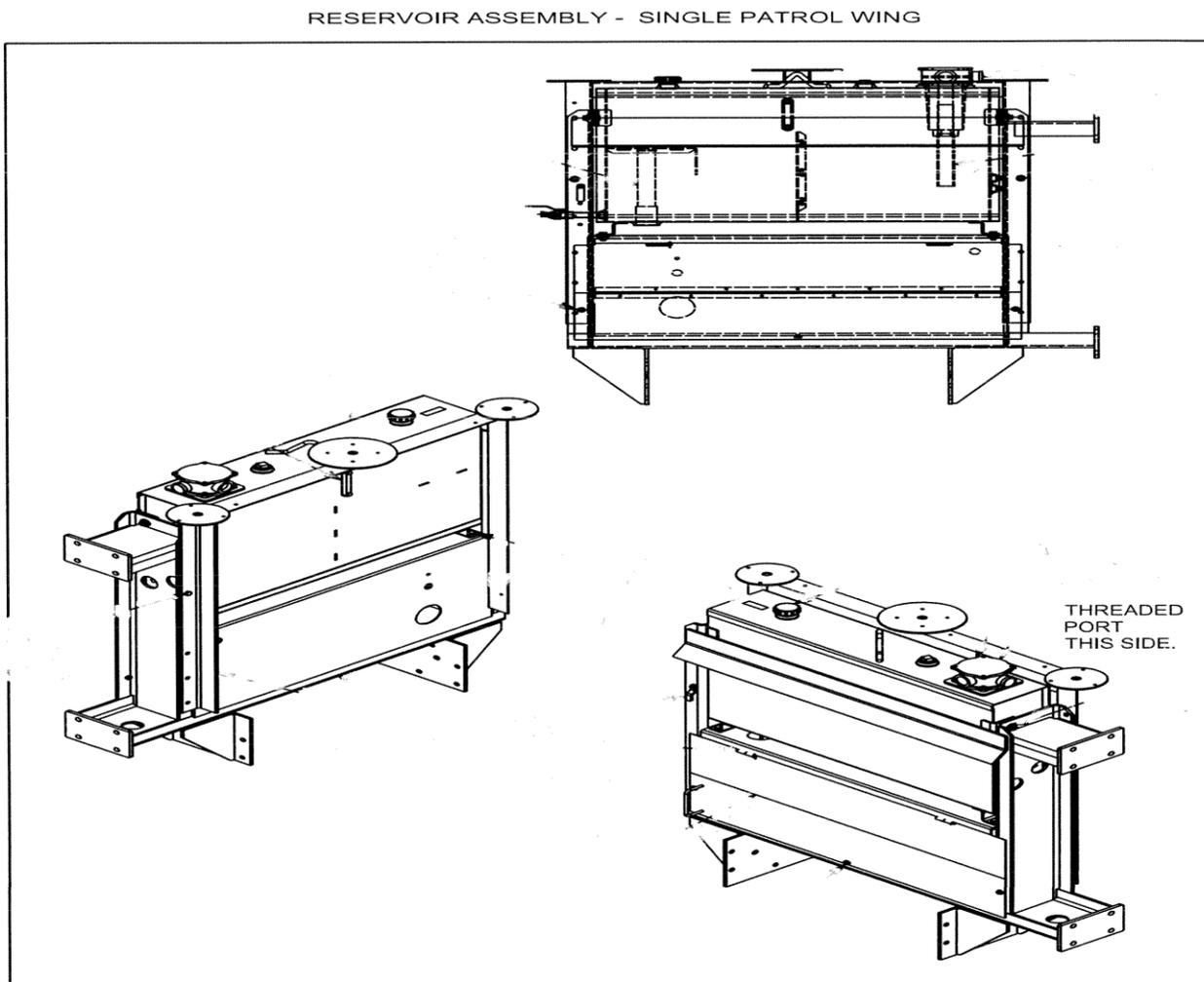


Figure 21

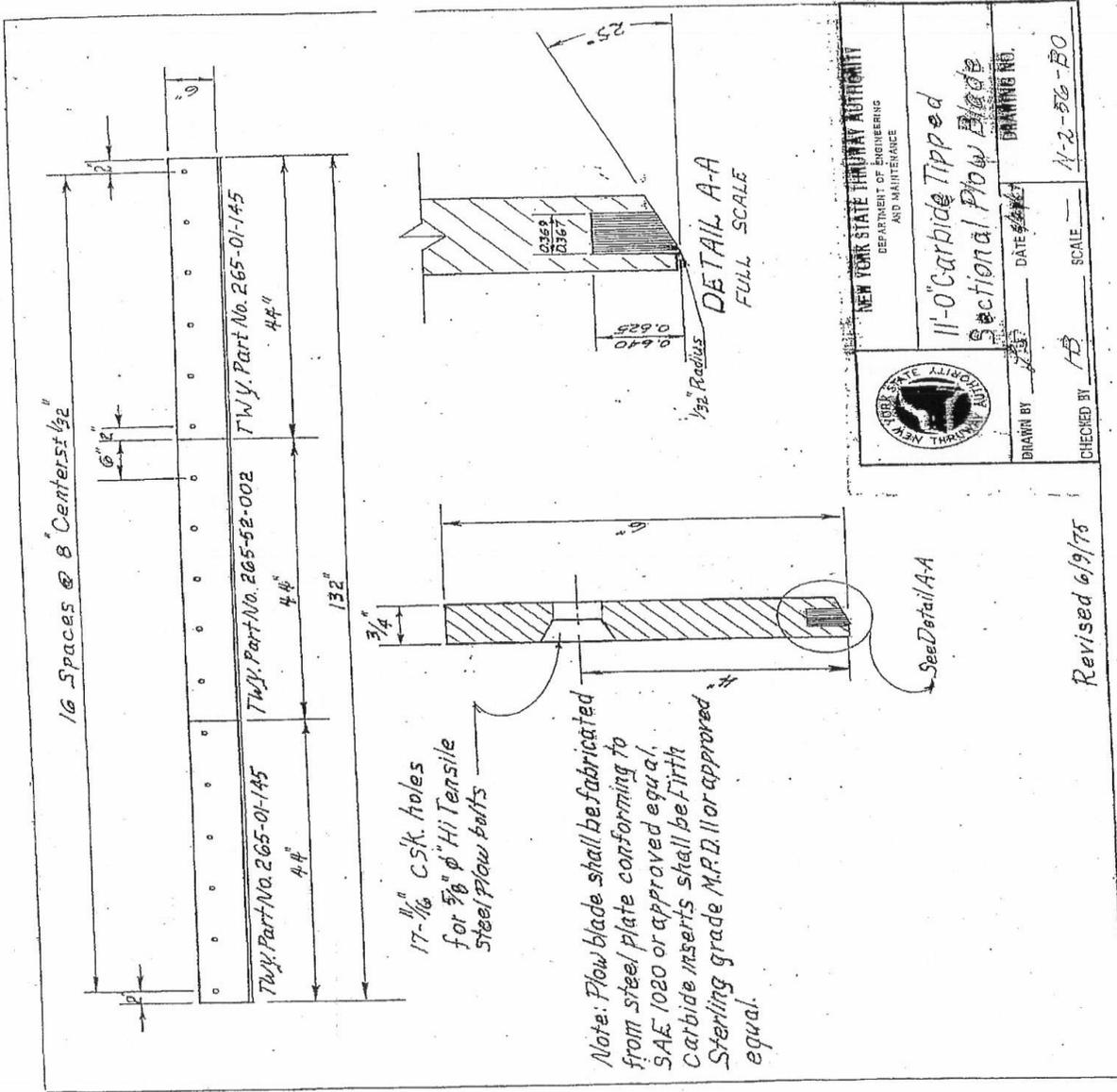
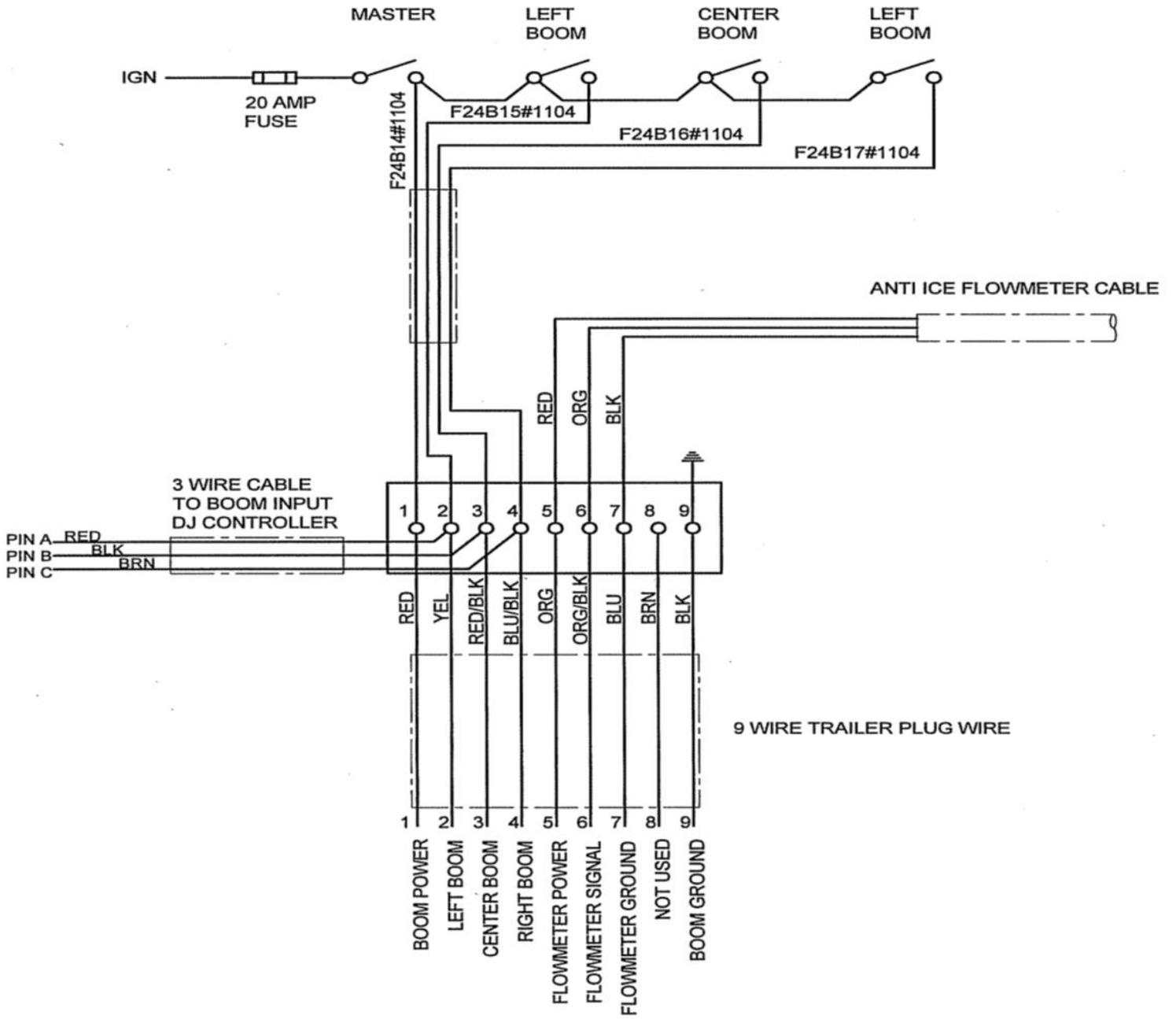


Figure 22



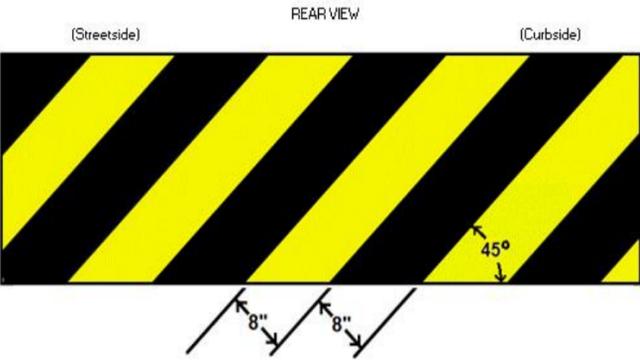
GROUP 40590-22910– TRUCKS, HEAVY DUTY (Class 8 Chassis Cab Type with Various Bodies)

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Lot VI: Truck Bodies (ELP Interchangeable Body Systems)

Note: The Contractor shall offer the entire ELP Product Line, Thruway Package, Plow Package and Aftermarket Components at the NYS discount listed below. When a Thruway Package is requested for an ELP Interchangeable Body System, it shall meet the specifications listed below, unless otherwise agreed upon between the Contractor and Authorized User(s), as applicable. Discounts are from MSRP. The actual plow package may exceed the minimum specifications listed below in the Plow Package Specifications. The Authorized User may elect to add Additional Options and Aftermarket Components (AOAC), delete Options and Aftermarket Components, or substitute a Base Item feature that is an Option or Aftermarket Component with another Option or Aftermarket Component. All Items must comply with the minimum specifications detailed in Contract Section 3.2 Product Requirements, including Contract Section 3.2.1 Standards, Codes, Rules, and Regulations. Additional Plow Models may be offered in accordance with Contract Section 3.2.5 Chassis Cab, Truck Body and Plow Substitutions. Unless otherwise noted, the Thruway Package and Plow Package Specifications listed below are considered minimum specifications. See also Contract Sections 3.2.7 Chassis Cab and Truck Body OEM Options and 3.2.8 Aftermarket Components .

Awarded Item	Name and effective date of the referenced price page(s) for the specifications in the Item(s) below	Dump Body or Plow Discount	AOAC Discount	Final Order Due Date	2016 Model Year NYS Net Contract Price
ELP Interchangeable Body Systems	OGS IFB 22910 LOT VI, VIII & IX Pricebook	30%	30%	TBD	MSRP less Contract Discount
Thruway Package	OGS IFB 22910 LOT VI, VIII & IX Pricebook	30%	30%	TBD	\$3,227.00
Plow Package	OGS IFB 22910 LOT VI, VIII & IX Pricebook	30%	30%	TBD	\$23,145.00
Delivery Cost Per Mile					\$2.00

Thruway Package	Specification
Stop, Turn and Tail Lights	The Stop/Turn/Tail lights shall be LED installed in plastic modules with steel mounting flange (Truck-Lite 40908 LH and 40909 RH). This module shall include a white backup lamp. Module mounting shall be to the rear of the chassis approximately 6 inches from the outer edge of the chassis. Wiring from the light modules to junction box shall continuous (not be spliced) Exact mounting location of all S/T/T and back-up lighting will be resolved at the pre-build meeting.
Body Lights	A rear facing three-light cluster bar shall be stainless steel with red LED lamps on six inch centers (Truck-Lite 15050R). This light shall be mounted in a protected area centered on the rear of the chassis. If the length of the Chassis/Body combination requires the use of side markers lamps they shall be designed to stay with the chassis when the body is removed. These body marker lights shall be two inch rubber grommet mounted LED red/yellow as required (Truck-Lite 30050 R/Y) or compatible equivalent.
License Plate Light	A license plate light and bracket shall be installed on the rear of the vehicle. (Truck-Lite 15041 LED module or compatible equivalent). Polycarbonate bracket sealed clear oblong lamp, installed in a protected area on the rear of the chassis. Exact location to be resolved at the pre-build meeting.
Reflectors	All Bodies: Reflectors are to meet FMVSS requirements for assembled vehicle with the optional body installed. Reflectors are to be high quality adhesive backed. Additional drilling/punching of the body for screw type reflectors is prohibited.
Rear Striping	Dump Bodies: In addition to the paint specified herein, the dump body tailgate shall be striped with alternating 6" diagonal stripes of yellow and black. The black stripe shall be formed using a gloss black lead free paint of equal quality to the yellow paint specified herein. The stripes are to be angled downward from right to left at an angle of 45 degrees. Specialty Bodies: In addition to the paint specified herein, the rear of selected specialty bodies will also require striping with
Rear Striping Detail	Dump Tailgate, Thruway - Note: 6" or 8" even spacing as depicted in the body options following the same 45 degree angle. 
Body Wiring	All Bodies: Wiring splices and connections, where practical, shall be from a waterproof junction box (Truck-Lite 50400 or compatible equivalent). The junction box shall be mounted at the rear of the vehicle frame in an accessible location. All wiring entering or exiting shall be through a compression fitting using the appropriate size grommet for the size and type of wire, Truck-Lite 50841 through 50847, or compatible equivalent. Upon completion of the up-fitter wiring all connections inside the box shall be coated with corrosion inhibitor FluidFilm® or compatible equivalent. All wiring splices shall be connected with low-temp self-soldering adhesive-lined shrink tube connectors UZ Engineered Products or Belden Solder Seal or approved compatible equivalent. Crimp style connectors are not acceptable. All exposed wiring shall be enclosed in plastic flexible conduit of the appropriate size and securely fastened along the routed path to prevent wiring from hanging or sagging. The use of adhesive type wire supports are prohibited. Any wiring passing through a plate, panel or crossmember shall be supplied with a grommet to prevent chafing or wearing of the wire insulation. All wiring installations shall be designed and installed in a manner that does not overload any vehicle electrical circuit. Should the load be too great for the existing circuit, an accessory relay shall be installed to provide power for the auxiliary circuit. In the event a relay is required it must be installed in the vehicle cab or protected in a water proof junction box.
TWY - Trailer Plug Wiring	Trailer Connections: Wiring for the trailer lighting receptacle shall include a standard 7 split pin DOT ICC corrosion resistant trailer plug connection with protective boot, (Truck-Lite 50868 & 50890 or compatible equivalent). The electrical connection are to be wired to the waterproof junction box and terminal orientation will be as modified from S.A.E. J560b (to provide combination stop/turn in lieu of independent stop). The wire connector terminals and socket shall be coated with corrosion inhibitor, Fluid Film® or compatible equivalent before installing the protective boot. The plug shall be mounted in a convenient protected location that will facilitate trailer connections. This location must not hamper the trailer or damage the wiring when making sharp turns. Note: Trailer Hitch to be installed by others.

Lot VI: Truck Bodies (ELP Interchangeable Body Systems)

Fenders & Mudflaps	For any chassis receiving a switch and go body system the vehicle must be set up to legally operate with the body removed. Therefore fenders over the rear duals are required and must be mounted to brackets that are securely fastened to the chassis. Mudflaps are also required with anti sail brackets. These fenders shall not interfere with body removal, installation or normal operations.
Paint	Dupont Yellow LF224 "Lead Free" or compatible equivalent - To best match the vehicles Chassis Cab.

Plow Package

Category	Specification
References for Power-Reversible Plows	The products listed below appear to meet our requirements. However, the listing does not constitute prior acceptance and a demonstration of bid items may be required. Competitive products will be considered along with those referenced.
Required Compatibility	The push frame and plow lifting device must be compatible with the Authority's power-reversible trip snow plows: Viking model PRRL 1148-FE or compatible equivalent.
Required Compatibility	When installed, the push frame and plow lifting device must allow complete tilting of the hood for service access to the truck's
Push Frame	The push frame must be fabricated of heavy plate, tubing, and angle. The mounted push frame shall not exceed 13" from the end of the truck frame to the center of the drive pin.
Push Frame	The push frame shall accommodate Authority-owned plows with hitches set up on 30.5" centers and shall provide at least two plow drive point heights. The first hitch point is to be 17.5" + above the ground, with the second point 3" above the first. The hitch pin holes shall be sized to accommodate 1.25" diameter hitch pins, which must be included with the plow frame.
Push Frame	Steps are required, one on each side, fabricated of 13 gauge skid resistant open grip plank grating as manufactured by McNichols Co. or compatible equivalent. Approximately 8" wide, welded to each side plate and protruding to approximately the center of each front tire. Outer ends shall be boxed with a piece of 2 inch wide 0.125" flat stock (or compatible equivalent) welded to the end to eliminate any sharp edges. Steps shall be properly reinforced. Steps are to support personnel who service the vehicle. A beveled corner shall be provided on the outer leading edge of each step.
Lifting Device	To be of welded and bolted construction, and provided with not less than a 4" diameter by 10" stroke double acting ram.
Lifting Device	Chassis will be equipped with stationary grills and tilting hoods. The push frame and plow lifting device design shall allow the hood
Lifting Device	The main vertical members shall be fabricated from 1/2" plate, and the bottom cross member from a minimum of 1/2" formed
Lifting Device	The hinged pivot point of the lifting device is to be located 36" above the first hitch point and provide a minimum of 12" of vertical lift to ensure proper lifting geometry for the Authority's plows. Any variation of this design will require prior Authority approval. The push frame shall include a license plate mounting accommodation and a bulkhead bracket for plow reverse couplers as
Plow Lights	Plow lights (Truck-Lite 80810-LH and 80820-RH) shall be installed and attached to fabricated framework or brackets in a manner
Power Hydraulic System	Basic System with Spreader Controls (see below)
Power Hydraulic System	Shall include a pump, control valve assembly, adjustable relief valve, hydraulic rams, oil reservoir and all necessary pipe lines, tubing and fittings for mounting the equipment on the truck.
Power Hydraulic System	Hydraulic oil from the pump is to be plumbed to a single multi section Parker A20 Valve or compatible equivalent with sections oriented as follows: inlet/unloader, plow raise/lower, plow reverse, dump body up/down, spreader conveyor, spreader spinner and end cover. The plow raise/lower, plow reverse and dump body up/down shall be pneumatically operated. The spreader conveyor and spreader spinner sections shall be electrical proportional control.
Power Hydraulic System	The hydraulic pump is to be a Permco Model P3000A186ADHG15-29h or compatible equivalent The pump shall be a continuous
Power Hydraulic System	The hydraulic system must include a spin-on filter housing with a 10-micron rated filter (Gresen model FSP212IEDNN or compatible equivalent). This shall be mounted in the hydraulic valve return line and attach in a vertical position (filter down).
Power Hydraulic System	The hydraulic reservoir shall be fabricated from a minimum of 8 gauge steel and have a minimum capacity of 20 gallons. A tank fill
Power Hydraulic System	The spreader controls shall be Rexroth CS420 and mounted in the vehicle cab. Location to be determined by the Authority. Electrical outputs cable for spreader conveyor and spreader spinner control shall be routed to and terminate at a proportional solenoid direct coupled to their respective hydraulic valve section. Hydraulic valve work ports to the spreader conveyor and the spreader spinner shall be plumbed to the lower right hand corner of the vehicle cab and terminate in securely mounted quick couplers. Two 3/4" Snap-Tite couplers, one female (VHC-12-12F) and one male (VHN-12-12F) and one 1-1/4" Snap-Tite female (VHC-20-20F) for the return to reservoir. Dust covers are required with all quick couplers. The spreader return quick coupler shall be plumbed back to "tee" into the hydraulic valve return line before the filter.
Power Hydraulic System	Hydraulic valve controls for the plow raise/lower, plow reverse and dump body raise/lower shall be proportional pneumatic, "pull to raise", spring centering, pedestal mounted to the right of the drivers seat and as close to the vehicle dash as possible. Location to be approved by the Authority.
Power Hydraulic System	Orientation and labeling of pneumatic control functions shall be from left to right: Plow Raise / Lower Plow Reverse Dump Body Raise / Lower
Power Hydraulic System	A locking pneumatic control (lock in neutral) shall be included for the dump body function.
Power Hydraulic System	The pneumatic controls shall function properly with a system working pressure of 90 to 120 psi, with compressed air from the vehicle's air brake system.
Power Hydraulic System	The air supply shall be drawn from the vehicle's dry tank through an air supply line fed into the vehicle cab to a combination pressure regulator /lubricator. On the inlet side of the regulator shall be an on/off valve, which will allow service personnel to shut off the air supply for repairs without draining the complete system. Located between the on/off valve and the supply tank shall be a pressure protection valve.
Power Hydraulic System	The air supply line from the regulator shall connect to the control valve air manifold. The manifold shall be internal within function control valves and the valves shall be designed to stack against each other as a function is needed. The air lines that exit each control valve shall be 3/16" diameter color-coded nylon tubing. At the end of each color-coded tube shall be a corrosion resistant brass connector. Each control section shall have a dedicated color and this color shall continue to each valve spool.
Power Hydraulic System	Shortly after exiting the control valve, these lines shall be bundled together with tie straps and the bundle then covered in plastic flexible conduit of the appropriate size and secured along its routed path. The bundle of lines shall then exit the vehicle cab at the base of the pedestal and continue to the valve spools (the exit location will require Authority approval).
Power Hydraulic System	Wherever an air line passes through a body panel, cross member or cabinet, the pass through hole shall have a grommet (no silicone sealer) installed in it to protect the line(s) from wear.
Power Hydraulic System	The tubing shall connect to slave cylinders that bolt to the end of the valve spool. Caps or covers, packed with grease, shall be included on the opposite end of the valve spool to protect the spool from corrosion.
Power Hydraulic System	Aeroquip GH781 Series hydraulic pressure line hoses with crimp style fittings, adequately supported and secured along their routed path.

Lot VI: Truck Bodies (ELP Interchangeable Body Systems)

Power Hydraulic System	Hydraulic lines from the valve/tank area to the hydraulic pump and plow functions at the front of the truck shall be stainless steel hydraulic tubing. The tubing shall have front axle clearance equal to or more than the clearance between the axle and chassis frame bumpers. Tubing routing shall allow access to the chassis engine filters.																				
Power Hydraulic System	Parker quick connect/disconnect fittings for plow swing-control hydraulic lines, Parker model SM-501-8FP female fitting with dust																				
General	The plows must have shoes and cutting edges that are easily replaceable.																				
Plow Jack	A weld on tube mount swivel top wind jack is to be installed on each plow framework in order to support the plow. Minimum 2000 lb. lift capacity, 10" of travel. Reese Farm & Ranch Topwind Jack or compatible equivalent. Final location to be as agreed upon with the Authority.																				
Paint	All surfaces shall be painted with the Thruway fleet color, DuPont Centari acrylic enamel 224AK (lead free) or compatible equivalent. All components of a paint system shall be from the same manufacturer. The bidder is required to submit a representative sample of colors (yellow) available for selection if the referenced color is not offered. All plows shall have any rust spots and welding slag removed, be properly sanded, cleaned, prepped and primed per the paint manufacturer's recommendations. Paint will be tested for the presence of lead at the time of inspection. All paint, primer, basecoats, clear coats or any other coating within the paint system shall be lead free. Note: If lead is detected the item may be rejected by the Authority.																				
Welds	All welds shall be done with a Mig or Tig Welder and show no visible signs of porosity. All fabrication shall leave no sharp edges or corners. Any sharp edges shall be finish ground smooth, all corners rounded before paint is applied.																				
Mold-board length	11-feet (approximately 48" high)																				
Mold-board	The mold-board is to be made of a minimum of USS 8-gauge steel, brake formed for additional rigidity, with eight reinforcing ribs made of ½" steel and sufficiently welded to the box brake and mold-board to form a rigid structure. It shall have a full length rigid deflector of a minimum USS 8-gauge steel, shaped as a smooth continuation of the mold-board. The mold-board shall be of the full-trip design, hinged to the drive frame at four points, and have a minimum outside drive-frame spread of 89 inches. To minimize chatter, it shall be restrained in its operating position by two braces linked to double-acting trip spring assemblies. The mold-board shall be full floating with respect to the plow frame so that the cutting edge can follow the contour of the road.																				
Mold-board Markers	A flexible fluorescent orange marker (¾" o.d., 28" long) must be installed on each end of the mold-board.																				
Blade Guards	Blade Guards must be suitable for installation over the Thruway blades as specified herein (bolt holes 11/16" square).																				
	All guards are 6" high and have bolt holes 8" on center with other characteristics as follows:																				
	<table border="1"> <thead> <tr> <th></th> <th>Length</th> <th>Thickness</th> <th>Weight</th> </tr> <tr> <th></th> <th>(inches)</th> <th>(inches)</th> <th>(lbs)</th> </tr> </thead> <tbody> <tr> <td>Straight Plow Guard</td> <td>21</td> <td>1-1/8</td> <td>40</td> </tr> <tr> <td>Curb Plow Guard, Right Hand</td> <td>23</td> <td>1-1/8</td> <td>49</td> </tr> <tr> <td>Curb Plow Guard, Left Hand</td> <td>23</td> <td>1-1/8</td> <td>49</td> </tr> </tbody> </table>		Length	Thickness	Weight		(inches)	(inches)	(lbs)	Straight Plow Guard	21	1-1/8	40	Curb Plow Guard, Right Hand	23	1-1/8	49	Curb Plow Guard, Left Hand	23	1-1/8	49
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Each Reversible Plow will be provided with 1 Right Hand Curb Plow Guard, 1 Left Hand Curb Plow Guard, and 1 Straight Plow Guard mounted at the center of the blade.																					
<table border="1"> <thead> <tr> <th>Manufacturer</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>Winter Equipment Company, Inc.</td> <td>Straight Plow Guard PS-6-3-8-G</td> </tr> <tr> <td>Willoughby, Ohio</td> <td>Plow Guard-Curb Guard PC-6-3-8-G (R&L)</td> </tr> </tbody> </table>	Manufacturer	Model	Winter Equipment Company, Inc.	Straight Plow Guard PS-6-3-8-G	Willoughby, Ohio	Plow Guard-Curb Guard PC-6-3-8-G (R&L)															
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Cutting Edge Reinforcement	Reinforced with 5" x 5" x 3/4" steel angle with suitable reinforcing gussets arc welded to the mold-board frame work. All welds shall be continuous type for corrosion protection.																				
Cutting Edge (please refer to the Figures tab, figure 21)	Minimum 3/4" thick by 6" wide and fabricated from steel plate conforming to SAE 1020, or compatible equivalent, with tungsten carbide inserts securely brazed with silver solder and in accordance with Drawing 11-2-56-BO, titled "11'0" Carbide Tipped Sectional Plow Blade," which is attached and applies. It shall be bolted to the plow for easy replacement. Bolt holes shall be spaced on 8-inch centers. The tungsten carbide inserts shall have a Rockwell "A" scale hardness of 88.0 with transverse rupture strength of 370,000 psi. Inserts shall be full length of each section as shown on drawing. Tungsten carbide shall be Firth Sterling Grade MPD-11 by Firth Sterling, Inc., Tungsten Products Division, of McKeesport Pennsylvania (or equal.) The snow plow manufacturer shall guarantee tungsten carbide inserts against faulty installation, chipping, cracking, fracturing and excessive wear during normal Thruway plowing operations. The manufacturer shall agree to replace defective section(s) of blade(s) at no extra charge. Note: The 11-ft cutting edge is specified in Drawing 11-2-56-BO																				
Lifting Mechanism	The plow must include a two or three point lifting mechanism (i.e., an arrangement of lifting rings and chain or other appropriate design) as recommended by the manufacturer that will help to balance the plow and allow it to ride level when in the raised position.																				
Reversing & Locking Mechanism	Reversing: The plow design shall permit angling of the mold-board for discharge to either the right or left. The reversing mechanism shall be operated by a single lever and perform by means of two horizontally mounted rams (either single or double acting), each ram sized as recommended by the plow manufacturer. The rams must first unlatch the semi-circle and then angle the blade to the operator's desired working position. (The use of a third hydraulic ram for unlatching the semi-circle is not acceptable.) This design must permit the operator to reverse the plow during plowing operations, with the mold-board in the plowing position, without raising the plow from the road. Locking: The locking mechanism shall be a mechanical device, such as a pin, and shall lock automatically to maintain the mold-board in any one of the following positions: 0, 10, 20, 30 and 37 degrees to the right or left of the same without any load on the rams or hydraulic system.																				
Hydraulic Lines	All hydraulic lines shall be flexible two wire braid hose with a working pressure suitable for the application and a bursting pressure of 20,000 psi. They must include ½" self-sealing "Bruning" quick connect disconnects and hydraulic couplings (one male Bruning SM502 and one female Bruning SM501), which must be coupled when delivered. The installed lines shall in no way interfere with plow operation and no line shall be installed or allowed to sag lower than the lowest parts of the plow frame or hydraulic cylinder. The lines used for angling shall be securely fastened to the plow frame. All lines must be connected directly to the hydraulic cylinders or, if connected through an elbow, must be within 2" of the hydraulic cylinder. (Multiple connectors leading to a cylinder are not acceptable.)																				
References for Power-Reversible Plows	The product listed below appear to meet our requirements. However, the listing does not constitute prior acceptance and a demonstration of bid items may be required. Competitive products will be considered along with those referenced.																				
Manufacturer	Viking Cives, Inc. Harrisville, New York																				
Model	PRRL-1148FE (11-feet), Power-reversible, Full-trip																				