



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
Request for Quotation
13 – Equipment

Proc Folder: 120209

Doc Description: Class 512 Asphalt Distributor on Chassis Cab Truck

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2015-07-13	2015-08-05 13:30:00	CRFQ 0803 DOT1600000006	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

West Virginia Tractor Company
 P.O. Box 473
 Charleston, WV 25322
 304-346-5301

08/18/15 12:52:00
 WV Purchasing Division

FOR INFORMATION CONTACT THE BUYER

Misty Delong
 (304) 558-8802
 misty.m.delong@wv.gov

Signature X *George Tracy* FEIN # 550621655 DATE 8-3-15

All offers subject to all terms and conditions contained in this solicitation



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 13 - Equipment

Proc Folder: 120209

Doc Description: Addendum 1 Class 512 Asphalt Distributor on Chassis Cab

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2015-08-03	2015-08-18 13:30:00	CRFQ 0803 DOT1600000006	2

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BID CLERK
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INVOICE TO		SHIP TO	
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY FORK RD CROSSING BUCKHANNON WV26201 US		DIVISION OF HIGHWAYS EQUIPMENT DIVISION 33 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	CLASS 512 1500 GALLON ASPHALT DISTRIBUTOR	2.00000	EA	\$147,890.00	\$295,780.00

Comm Code	Manufacturer	Specification	Model #
22101621	E.D. Etnyre - Freightliner		Centennial- M2 106

Extended Description :

CLASS 512 1500 GALLON ASPHALT DISTRIBUTOR MOUNTED ON A 33,000 POUND GVW CHASSIS CAB TRUCK

DOT1600000006	Document Phase Draft	Document Description Class 512 Asphalt Distributor on Chassis Cab Truck	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

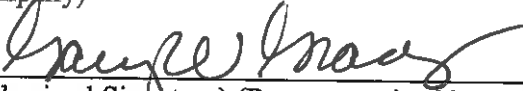
See attached document(s) for additional Terms and Conditions

CERTIFICATION AND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

West Virginia Tractor Company

(Company)



(Authorized Signature) (Representative Name, Title)

Gary W. Grady, President

304-346-5301 304-346-5305 8-3-15

(Phone Number) (Fax Number) (Date)

Exhibit A

Pricing Sheet

RFQ 7015E033

Item Number	Estimated Quantity	Unit of Measure	Description	Unit Price	Total
1	2	Each	One complete unit: 1500 Gallon Asphalt Distributor w/33,000 lbs Chassis Cab Truck	\$147,890.00	\$295,780.00
				Grand Total	

Vendor should also supply the year, make, and model of the following:

2015 or later Etnyre Centennial 2016 or later Freightliner M2 106
1500 Gallon Asphalt Distributor w/ 33,000 lbs Chassis Cab Truck

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DOT160000006

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

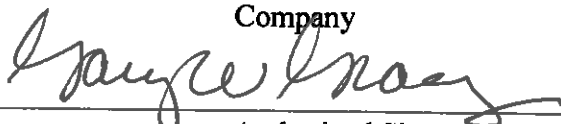
(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

West Virginia Tractor Company

Company



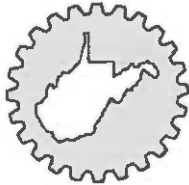
Authorized Signature

8/13/2015

Authorized Signature

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012



WEST VIRGINIA TRACTOR COMPANY

CONSTRUCTION, MINING, MUNICIPAL & INDUSTRIAL EQUIPMENT

P. O. BOX 473, 214 VIRGINIA ST. W., CHARLESTON, WV 25322/25302 • (304) 346-5301

August 13, 2015

WVDOT-Highways
Equipment Division
P.O. Box 610
Buckhannon, WV 26201

Subj: Asphalt Distributor Truck - DOT1600000006 - Due 8/18/15 1:30

Ladies and Gentlemen:

We are pleased to offer the following described equipment for your consideration:

2 ETNYRE Centennial 1,500 gallon asphalt distributor with 1,500 gallon steel tank with surge plates, spill collar with 20" manhole with strainer and rollover protection to meet 49CFR173.247 DOT hot asphalt requirements, 2" fiberglass insulation and aluminum jacketing, side mounted ladder to manhole platform, pencil tank thermometer, tank contents gauge, full circulating system with air operated and spring closed rear suction valve, auto control 4-way asphalt valve, steel pipe distribution lines with ball joints and O-ring seals, Vacu-Flo suck back system, self flushing line, 400 GPM asphalt pump, hand spray system with 25' X 3/4" flexible hose and lightweight gun with cold handle, spray valve, removable strainer in pump suction line, 25 gal. flushing oil tank with line to pump, heating system with one flue, and burner, 52 gallon tank and exhaust stack, crankshaft driven hydrostatic pump and motor for asphalt pump operation including cab computer control of asphalt application rate with digital readout and radar ground speed system, 400 GPM asphalt pump, 12' full circulating spray bar with 8' center section, (2) 1' folding non-removable bar sections, (2) 1' removable bar extensions with breakaway feature, individual 1' electric/air on/off cab control of spray bar, electric over hydraulic spray bar lift, shift and wing folding controlled from front and rear, manual flip valve nozzle control every 4", flanged aluminum fenders, measuring stick, tool box, quick couplers on load and transfer lines, FMVSS-108 lights and wiring, steel parts painted black, all standard equipment, plus:

- A4 One 4" dial type thermometer, 50 to 500 degree
- B2 Power wash-down system with pump, hose and spray wand
- E1 Truck transmission PTO power ILOS
- G2 Two flues with high pressure fuel oil burners ILOS
- G8 Stainless steel flue liners
- H6 Hose reel for hand spray hose
- H11 Wet storage box with drain plug and hinged lid
- A6 Cone type strainer in fill line
- H11a 12' X 3" rubber fill hose with 3" male thread each end
- H10 Electronic back-up alarm

SPEC Additional tool box to specifications
SPEC Target Tech multi-flash 5X,12/48 VDC strobe light
Factory mounting on a compatible truck chassis
2016 Freightliner M2-106 cab and chassis with, 12,000 lb. front
axle and 13,300 lb. suspension, 23,000 two speed rear axle with
23,000 lb. springs and auxiliary springs, Cummins ISL 270 HP diesel
engine, Allison 3500 RDS 6-speed auto transmission, 11R22.5-14
tires, anti-lock brakes, air conditioning, AM/FM/WB stereo, heated
power mirrors, power windows, 50 gallon fuel tank, 13 gallon DEF
tank, air ride seats, block heater, fuel heater, white paint, and
all other equipment listed in the enclosed detailed specification
from Matheny Motor Truck
Operator training and start-up services, including WV temporary tag

PRICE: F.O.B. Buckhannon.....\$147,890 EA.....\$295,780

Availability: Currently about 180 - 210 days

West Virginia Tractor has been the authorized Etnyre dealer in West Virginia for over 40 years with a full sales, service and parts facility in Charleston. We meet all of your specifications exactly.

As required by law, we are licensed to do business in West Virginia (West Virginia Tax Dept. #1038-0884), and we are licensed by the West Virginia Secretary of State, the West Virginia Insurance Commission and with the WVDMV as a new vehicle dealer (D-43), which is required by West Virginia Code 17A-1-1.

We qualify for and request the State of West Virginia resident vendor preference in accordance with West Virginia Code 5A-3-37.

West Virginia Tractor Company is an Equal Opportunity Employer and does not discriminate against any employee or applicant for employment because of race, religion, color, sex, handicap or national origin. We are also in compliance with West Virginia Code 21A-2-6, Unemployment and Workers Compensation status with the Bureau of Employment Programs.

Thank you for your consideration. If you have any questions or need any additional information, please feel free to call me at any time. We invite you to visit our web site at www.wvtractor.com. Again, thanks.

Sincerely,

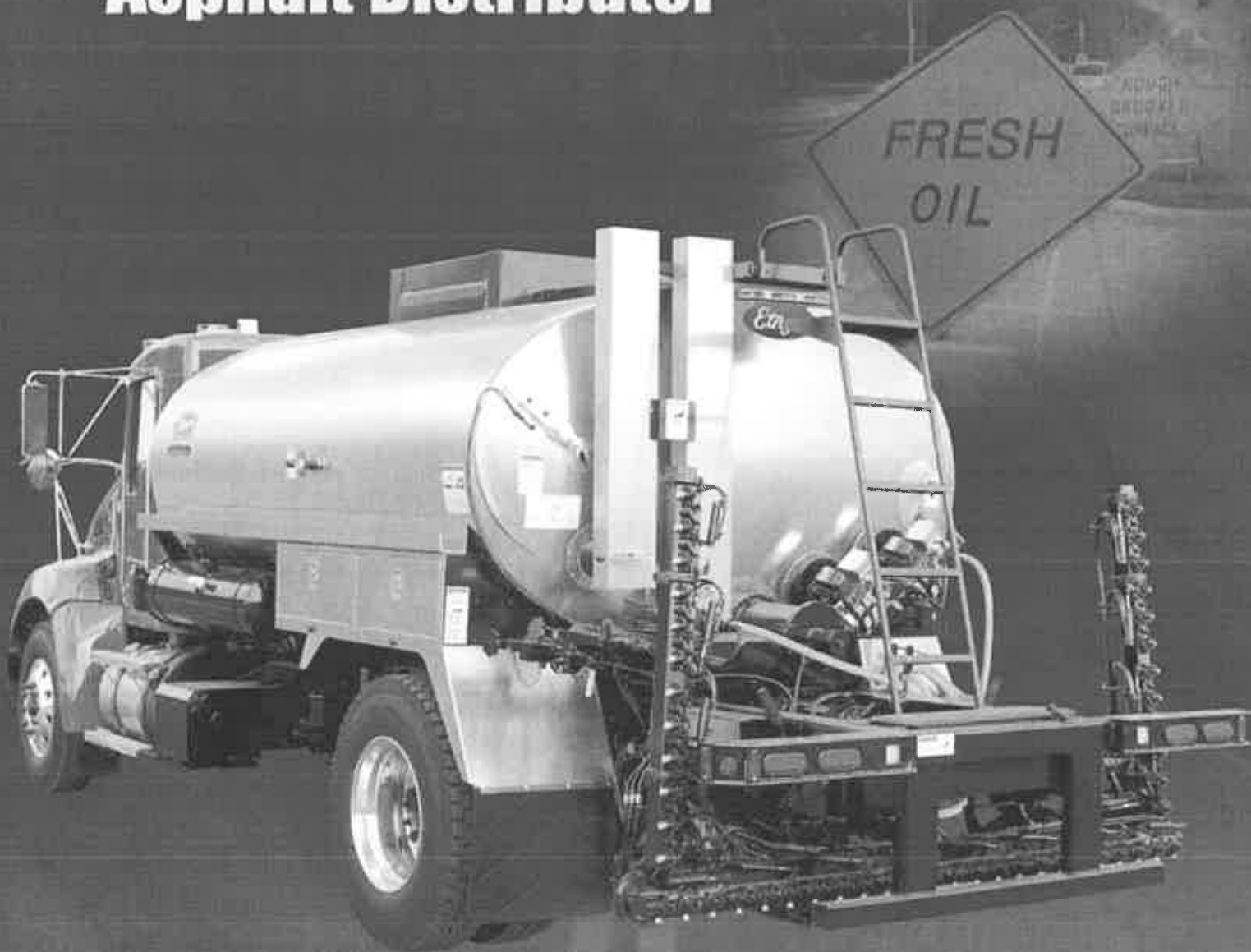


Gary W. Grady, President

ETNYRE

BLACK-TOPPER®

**Centennial Series
Asphalt Distributor**



Setting the Standard



- Improved control and less maintenance. Electronic asphalt pump speed control provides superior dependability and more precise control than manual systems.
- The application rate is automatically maintained even with variations in truck speed at any spray width.
- One person operation. All spraying functions can be controlled from the truck cab.
- Duplicate controls for stationary functions are located at the rear of the distributor.
- Application is precise. There is no by-pass valve in the circulating system. Material that goes through the pump goes through the spray nozzles.
- Spray bar is fully balanced when spraying for unbeatable accuracy.
- Balanced, dual feed asphalt flow while spraying insures uniform application across the full bar.
- Custom built tank sizes.
- Designed to meet federal regulations for hot products.

Clean, uncomplicated design exclusive to Etnyre

Dished and Flanged surge plates and heads are double welded to tank shell for extra strength and durability. Full box saddle type bolsters evenly distribute stresses and allow for thermal expansion.

Proven Etnyre 400 G.P.M asphalt pump designed and built by Etnyre specifically for handling asphalt and asphalt emulsions.

Change spray width from the cab. An available spray bar control package features individual cab controls for each one-foot section of spray bar.

Self flushing system cleans the entire compact, easy to clean circulating system with a minimum amount of flushing oil.

Fuel Oil or LPG
Burners



Radar speed sensing provides precise measurement of ground speed and distance.

Better circulation, faster heating, faster starts and improved handling of special asphalts with Etnyre's large cross-section, "obstructionless" spray bar. Tapered, self-draining valve design leaves no asphalt slug to clog the valve.

Exclusive Vacu-Flo suck back system clears asphalt from the lowest point in the system without reversing the asphalt pump or back flushing the suction screen.

Safe, solid and dependable all pipe circulating system delivers material efficiently to the spray bar. No flexible steel or rubber lines. Leak free, machined ball joints with O-ring seals allow freedom of movement and reduce maintenance.

Proven performance – unbeatable accuracy



The total package – capable and dependable, the Etnyre Centennial Series asphalt distributor is built to stay solidly on the job year after year.



**FULL
CAB CONTROL**



**SOLID PIPE
CIRCULATING SYSTEM**



**FASTER HEATING
FASTER STARTS**

Etnyre knows asphalt



Established in 1898, we grew up with the industry. Etnyre dependability, innovation, and dedication to our customers earned our reputation as standard of the industry.



**PRECISE
CONTROL**



**SUPERIOR
DEPENDABILITY**



**CUSTOM BUILT
TANK SIZES**

Time saving performance

Combining individual spray bar controls with the application rate computer provides time saving variable width capabilities with the flick of a switch from the cab.



Control panel with computerized application rate control and spray controlled in 1' increments.



Rear control panel (shown with optional display).



Computer screen displays information simultaneously

Automatically maintain the pre-set application rate

- Change speed and/or adjust spray width using control panel switches and the control automatically maintains the pre-set application rate.
- A built-in self diagnostic program monitors the control circuits.

Productivity is maximized with computerized application rate and in-cab spray bar controls

- The Etnyre computer automatically matches pump output to distributor speed. Enter the desired application rate and the computer maintains that rate regardless of distributor speed, bar width or transmission gear changes during operation.
- No switching between displays for information. The computer screen displays application rate, gallons per minute and feet traveled simultaneously on one screen.
- Store five different application rates in memory and recall them with the push of a button.
- The pumping rate can be adjusted for loading and circulating without changing the desired spray or application rates.



Variable Width Sliding Spray Bar

Available as optional equipment



- Cab control.
- Solid pipe ... no flexible asphalt hoses.
- Infinitely variable bar widths.
- Side shift capabilities.
- 4" width controls.
- Up to 24' wide shots. Available in 18' or 24' configurations.
- No excess bar beyond shot width.





The standard of the industry for more than 100 years.

For additional information on the Etnyre Centennial series asphalt distributors, request the following information:

- A-101--- Black-Topper Centennial Features
- A-142--- Designing A Distributor Booklet
- V-101--- Etnyre Black-Toppers Video

Distributed By:

E. D. Etnyre & Co., whose policy is one of continuous improvement, reserves the right to change specifications without notice. Photos and illustrations contain standard and optional equipment.



E. D. ETNYRE & CO.,
1333 South Daysville Road, Oregon, Illinois 61061
Phone: 800-995-2116 or 815/732-2116 • Fax 815-732-7400
Web Site: www.etnyre.com • E Mail: sales@etnyre.com

Litho in U.S.A. Supersedes L-101-11 L-101-12



ESTABLISHED 1898
INCORPORATED 1917

E. D. ETNYRE & CO., Oregon, Illinois 61061-9778

1333 South Daysville Road • Phone 815/732-2116
Fax: Main Office 815-732-4277, Sales & Service 815-732-7400
Web Site: www.etnyre.com • E Mail: sales@etnyre.com

WARRANTY

E. D. Etnyre & Co. warrants to the original Purchaser, it's new product to be free from defects in material and workmanship for a period of twelve (12) months after date of delivery to original Purchaser. The obligation of the Company is limited to repairing or replacing any defective part returned to the Company and will not be responsible for consequential damages or any further loss by reason of such defect.

The company excludes all implied warranties of merchantability and fitness for a particular purpose. There are no warranties, express or implied, which extend beyond the description of the goods contained in this contract.

This warranty does not obligate the Company to bear the cost of machine transportation in connection with the replacement or repair of defective parts, nor does it guarantee repair or replacement of any parts on which unauthorized repairs or alterations have been made or for components not manufactured by the Company except to the extent of the warranty given by the original Manufacturer.

This warranty does not apply to:

- (1) Normal startup services, normal maintenance services or adjustments usually performed by the selling dealer, factory service representative or customer personnel.
- (2) Any product manufactured by E. D. Etnyre & Co. purchased or subjected to rental use.
- (3) Any product or part thereof which shows improper operation, improper maintenance, abuse, neglect, damage or modification after shipment from factory.
- (4) Any product or part thereof damaged or lost in shipment. Inspection for damage should be made before acceptance or signing any delivery documents releasing responsibility of the delivering carrier.

This warranty and foregoing obligations are in lieu of all other obligations and liabilities including negligence and all warranties of merchantability or otherwise, express or implied in fact or by law.

Prepared for:
 Gary Grady
 WV Department of Highways
 PO Box 610
 Buckhannon, WV 26201
 Phone: 304-472-1750

Prepared by:
 MATHENY MOTOR TRUCK
 COMPANY
 50 Mtheny Lane
 Mineral Springs, WV 26150
 Phone: 3044854418

S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-10M	M2 PRL-10M (EFF:02/11/15)			STD
Data Version				
DRL-024	SPECPRO21 DATA RELEASE VER 024			N/C
Vehicle Configuration				
001-172	M2 106 CONVENTIONAL CHASSIS	5,759	3,503	\$97,321.00
004-216	2016 MODEL YEAR SPECIFIED			N/C
002-004	SET BACK AXLE - TRUCK			STD
019-002	STRAIGHT TRUCK PROVISION			STD
003-001	LH PRIMARY STEERING LOCATION			STD
General Service				
AA1-002	TRUCK CONFIGURATION			STD
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
A85-002	PICKUP AND DELIVERY/SHORT HAUL SERVICE			STD
A84-1GF	GENERAL FREIGHT BUSINESS SEGMENT			STD
AA4-001	GENERAL FREIGHT COMMODITY			STD
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-091	MEDIUM TRUCK WARRANTY			STD
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 21000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 33000.0 lbs			
Truck Service				



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Data Code	Description	Weight Front	Weight Rear	Retail Price
AA3-001	DRY VAN BODY			STD
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in			
Engine				
101-2XF	CUM ISL 270 HP @ 2000 RPM: 2200 GOV RPM, 800 LB/FT @ 1300 RPM	640	30	\$10,972.00
Electronic Parameters				
79A-075	75 MPH ROAD SPEED LIMIT			N/C
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM			N/C
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			N/C
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			N/C
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			N/C
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			N/C
80G-002	PTO MINIMUM RPM - 700			N/C
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH			N/C
Engine Equipment				
99C-016	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14			N/C
99D-010	NO 2008 CARB EMISSION CERTIFICATION			N/C
13E-001	STANDARD OIL PAN			STD
105-001	ENGINE MOUNTED OIL CHECK AND FILL			STD
133-004	ONE PIECE VALVE COVER			STD
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER			STD
124-1DJ	DR 12V 160 AMP 36-SI BRUSHLESS QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	10		\$170.00
292-1D8	(2) ALLIANCE MODEL 1131, GROUP 31, 12 VOLT MAINTENANCE FREE 1900 CCA THREADED STUD BATTERIES, NON FCCC ONLY			STD
290-017	BATTERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATTERY JUMPERS			STD
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			STD
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
293-061	POSITIVE LOAD DISCONNECT WITH CONTROL SWITCH WITH LOCKING PROVISION MOUNTED OUTSIDE OF CAB	2		\$185.00
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			STD
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR			STD
131-013	AIR COMPRESSOR DISCHARGE LINE			STD
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			STD
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20		N/C
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25	\$852.00
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			STD
239-020	10 FOOT 00 INCH (120 INCH+0/-5 INCH) EXHAUST SYSTEM HEIGHT			N/C
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			N/C
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	35	10	\$105.00
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			\$17.00
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)			N/C
273-018	HORTON DRIVEMASTER ON/OFF FAN DRIVE			N/C
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD
110-003	CUMMINS SPIN ON FUEL FILTER			STD
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			N/C
120-008	PENRAY NEED RELEASE WATER FILTER	10		\$225.00
266-013	1100 SQUARE INCH ALUMINUM RADIATOR	20		N/C
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT			N/C
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-016	RADIATOR DRAIN VALVE			STD
168-002	LOWER RADIATOR GUARD			STD
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4		\$99.00
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			\$14.00
134-001	ALUMINUM FLYWHEEL HOUSING			STD
132-004	ELECTRIC GRID AIR INTAKE WARMER			STD
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			N/C

Transmission

342-584	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60	\$6,711.00
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV			N/C
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED			STD
85E-998	MAXIMUM ENGINE SPEED FOR PTO ENGAGEMENT 2600 RPM - ALLISON 5TH GEN TRANSMISSIONS			STD
85F-998	TCU-MAX PTO ENGINE SPEED OPERATION NOT CONFIGURED			STD
85G-998	TCU-MAX PTO O/P SPD ENG NOT CONFIGURE			STD
85H-998	TCU-MAXIMUM PTO OUTPUT SPEED OPERATION NOT CONFIGURED			STD
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			\$38.00
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO			N/C



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 Mineral Springs, WV 26150
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Data Code	Description	Weight Front	Weight Rear	Retail Price
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION			N/C
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			STD
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			N/C
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			N/C
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			STD
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			N/C
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD

Front Axle and Equipment

400-1A6	DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE			STD
402-021	MERITOR 15X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			\$140.00
403-002	NON-ASBESTOS FRONT BRAKE LINING			STD
419-023	CONMET CAST IRON FRONT BRAKE DRUMS			STD
409-021	SKF SCOTSEAL PLUS XL FRONT OIL SEALS			STD
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			STD
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS			STD
536-050	TRW THP-60 POWER STEERING			STD
539-003	POWER STEERING PUMP			STD
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR			STD
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE			STD

Front Suspension

620-1D8	13,300# TAPERLEAF FRONT SUSPENSION	75		\$313.00
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION			STD
410-001	FRONT SHOCK ABSORBERS			STD

Rear Axle and Equipment

420-044	RS-23-240 23,000# R-SERIES 2-SPEED SINGLE REAR AXLE		160	\$6,140.00
421-010	6.14/8.38 REAR AXLE RATIO			N/C



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 Mineral Springs, WV 26150
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Data Code	Description	Weight Front	Weight Rear	Retail Price
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			STD
386-074	MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	5	5	(\$383.00)
423-032	MERITOR 16.5X7 Q+ STAMPED SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		-10	(\$11.00)
433-002	NON-ASBESTOS REAR BRAKE LINING			STD
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)			N/C
451-023	CONMET CAST IRON REAR BRAKE DRUMS			STD
440-021	SKF SCOTSEAL PLUS XL REAR OIL SEALS			STD
426-074	HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS			STD
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS			STD
876-004	ELECTRIC OVER AIR CONTROL WITH INDICATOR LAMP FOR 2-SPEED REAR AXLE			N/C
87C-001	LOW RANGE TWO-SPEED DEFAULT WITH IGNITION OFF			N/C
898-002	AIR SHIFTER FOR 2-SPEED REAR AXLE			N/C
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE			STD
Rear Suspension				
622-1MJ	23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER		110	(\$1,608.00)
621-001	SPRING SUSPENSION - NO AXLE SPACERS			N/C
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			STD
Brake System				
018-002	AIR BRAKE PACKAGE			STD
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL			STD
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
904-001	FIBER BRAID PARKING BRAKE HOSE			STD
412-001	STANDARD BRAKE SYSTEM VALVES			STD
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			STD
413-002	STD U.S. FRONT BRAKE VALVE			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
480-083	WABCO SS-1200 PLUS AIR DRYER WITH INTEGRAL AIR GOVERNOR AND HEATER			STD
479-015	AIR DRYER FRAME MOUNTED			STD
460-001	STEEL AIR BRAKE RESERVOIRS			STD
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS			STD
Trailer Connections				
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			STD
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT			STD
Wheelbase & Frame				
545-437	4375MM (172 INCH) WHEELBASE			N/C
546-099	9/32X3-7/16X10-1/16 INCH STEEL FRAME (7.14MMX255.6MM/0.281X10.06 INCH) 120KSI	-60	-10	\$123.00
552-063	2550MM (100 INCH) REAR FRAME OVERHANG			N/C
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-40	150	N/C
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 106.45 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 103.45 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 301.39			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 106.45 in			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 134.23 in			N/C
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 110.26 in			N/C
553-001	SQUARE END OF FRAME			STD
550-001	FRONT CLOSING CROSSMEMBER			STD
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			STD
572-001	STANDARD REARMOST CROSSMEMBER			STD
565-001	STANDARD SUSPENSION CROSSMEMBER			STD
Chassis Equipment				
556-1AP	THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS	30		\$80.00
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15		\$96.00
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS			STD
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD
Fuel Tanks				
204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20		\$133.00
218-005	RECTANGULAR FUEL TANK(S)			STD
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			STD
212-007	FUEL TANK(S) FORWARD			STD
664-001	PLAIN STEP FINISH			STD
205-001	FUEL TANK CAP(S)			STD
220-048	INSTAHEAT FUEL HEATER (1 TANK)	5		\$441.00
122-1AJ	DAVCO 382 FUEL/WATER SEPARATOR	-5		\$336.00
216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
Tires				
093-1G4	MICHELIN XZE2 11R22.5 14 PLY RADIAL FRONT TIRES	12		\$46.00
094-1G4	MICHELIN XZE2 11R22.5 14 PLY RADIAL REAR TIRES		24	\$92.00
Hubs				
418-056	CONMET PRESET PLUS IRON FRONT HUBS			STD
450-056	CONMET PRESET PLUS IRON REAR HUBS			STD
Wheels				
502-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS	26		\$64.00
505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		52	\$128.00
496-011	FRONT WHEEL MOUNTING NUTS			STD
497-011	REAR WHEEL MOUNTING NUTS			STD
Cab Exterior				
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
650-003	LEAF SPRING REAR CAB SUSPENSION			\$186.00
678-001	LH AND RH GRAB HANDLES			STD
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE			\$97.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			\$51.00
644-004	FIBERGLASS HOOD			STD
727-1AM	DUAL 24 INCH ROUND POLISHED ALUMINUM AIR HORNS ROOF MOUNTED	8		\$196.00
726-001	SINGLE ELECTRIC HORN			STD
728-002	DUAL HORN SHIELDS			N/C
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL			N/C
302-001	(5) AMBER MARKER LIGHTS			STD
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS			STD
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE			\$330.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
729-001	STANDARD SIDE/REAR REFLECTORS			STD
768-043	63X14 INCH TINTED REAR WINDOW			STD
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS			STD
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	8		\$218.00
663-013	TINTED WINDSHIELD			STD
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			STD

Cab Interior

707-1AM	OPAL GRAY CLOTH INTERIOR			STD
706-013	MOLDED PLASTIC DOOR PANEL			STD
708-013	MOLDED PLASTIC DOOR PANEL			STD
772-006	BLACK MATS WITH SINGLE INSULATION			STD
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING			STD
694-010	IN DASH STORAGE BIN			STD
742-007	(2) CUP HOLDERS LH AND RH DASH			STD
680-006	GRAY/CHARCOAL FLAT DASH			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
860-004	SMART SWITCH EXPANSION MODULE			\$189.00
720-003	5 LB. FIRE EXTINGUISHER	10		\$65.00
700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
701-001	STANDARD HVAC DUCTING			STD
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
170-015	STANDARD HEATER PLUMBING			STD
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR			STD
702-002	BINARY CONTROL, R-134A			STD
739-033	STANDARD INSULATION			STD
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS			STD
655-005	LH AND RH ELECTRIC DOOR LOCKS			\$99.00
284-023	(1) 12 VOLT POWER SUPPLY IN DASH			\$16.00
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30		\$221.00
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10	\$258.00
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER			\$2.00
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER			\$2.00
763-032	3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS			STD
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		\$478.00
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			STD
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD

Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL			STD
734-004	GRAY CENTER INSTRUMENT PANEL			STD
870-001	BLACK GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			\$34.00
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL			STD
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			N/C
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE			STD
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-005	TRANSMISSION OIL TEMPERATURE INDICATOR LIGHT			STD
867-019	INSIDE/OUTSIDE TEMPERATURE GAUGE WITH CHROME BEZEL AND LCD FAHRENHEIT DISPLAY			\$90.00
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
372-035	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	5		\$71.00
736-998	NO OBSTACLE DETECTION SYSTEM			STD
73B-998	NO LANE DEPARTURE WARNING SYSTEM			STD
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
746-1B3	AM/FM/WB RADIO WITH BLUETOOTH AND MICROPHONE, FRONT USB PORT, FRONT AND REAR AUXILIARY INPUTS AND J1939	10		\$398.00
747-001	DASH MOUNTED RADIO			N/C
750-002	(2) RADIO SPEAKERS IN CAB			N/C
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF	2		N/C
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-001	STANDARD VEHICLE SPEED SENSOR			STD
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
162-011	IDLE LIMITER, ELECTRONIC ENGINE			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			STD
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH			STD
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			STD
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			STD
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD

Design

065-000	PAINT: ONE SOLID COLOR			STD
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Color

980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC			STD
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
962-974	POWDER GRAY (N0020EA) FRONT WHEELS/RIMS (PKGGRY21, G, PG1)			\$46.00
966-974	POWDER GRAY (N0020EA) REAR WHEELS/RIMS (PKGGRY21, G, PG1)			\$92.00
964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX			STD
963-996	NO UNDERCOAT			STD

Certification / Compliance

996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD
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Secondary Factory Options

998-032	CORPORATE PDI CENTER OPTION INSTALLATION/MODIFICATION ONLY			N/C
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Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

T O T A L V E H I C L E S U M M A R Y

Adjusted List Price

Adjusted List Price ** \$125,978.00



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Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	6921 lbs	4119 lbs	11040 lbs
Total Weight ⁺	6921 lbs	4119 lbs	11040 lbs

ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges

PMU-016	2016 OBD/2010 EPA/CARB/GHG14 ESCALATOR	\$300.00
P73-2FT	STANDARD DESTINATION CHARGE	\$2,000.00

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

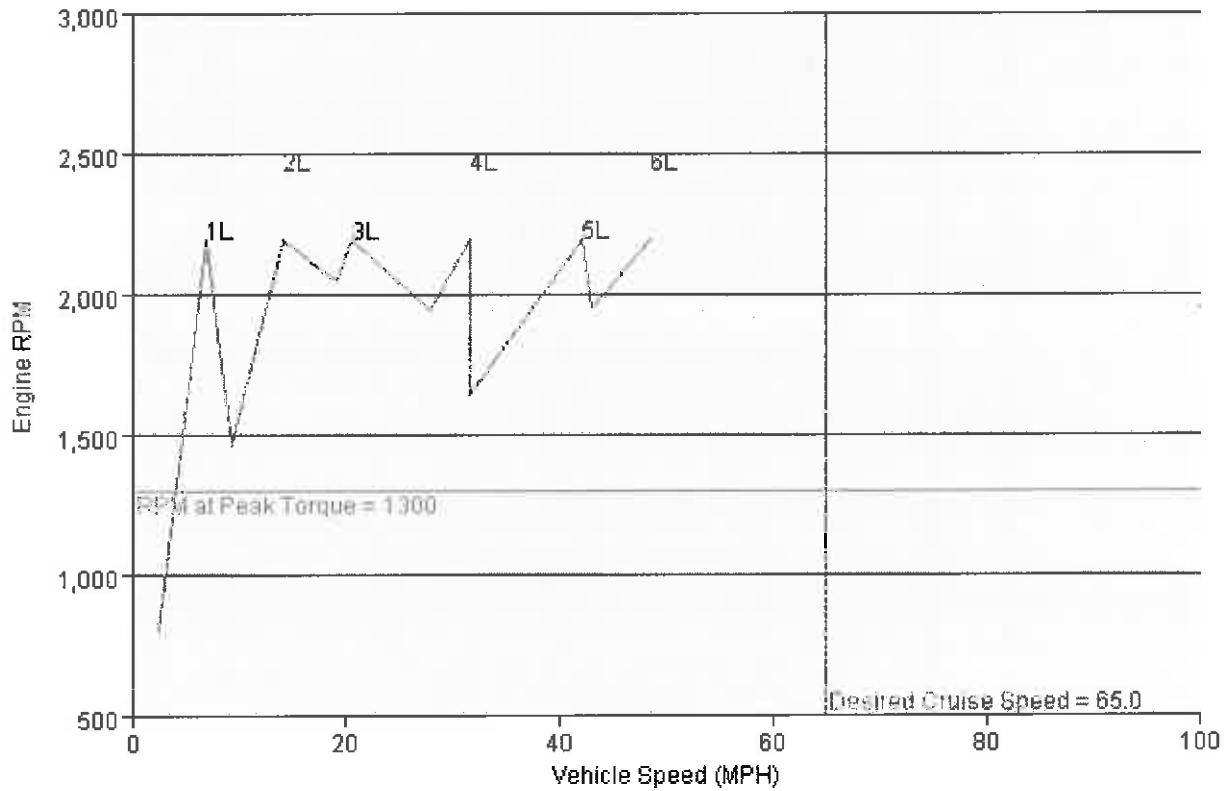
(**) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.



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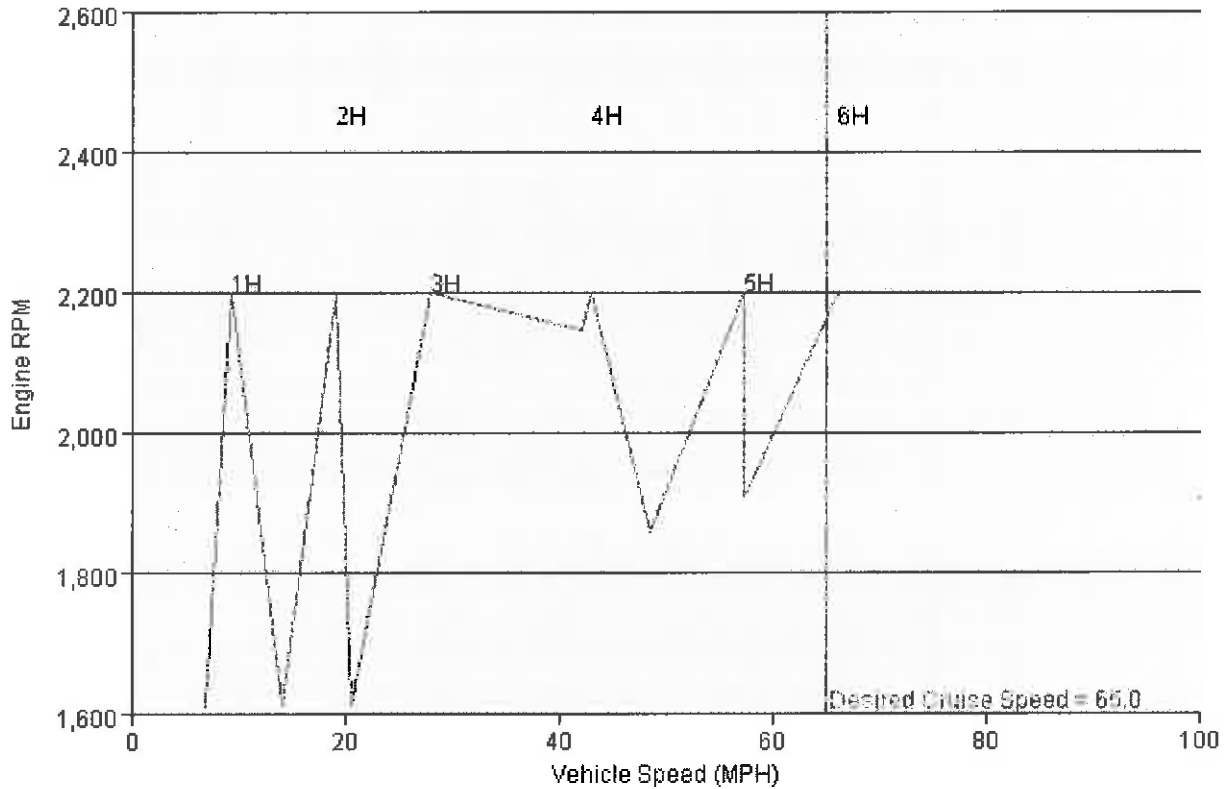
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SHIFT CHART



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VEHICLE SPECIFICATIONS SUMMARY - SHIFT CHART

Model M2106
 Cab Size (829)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Desired Cruise Speed (mph) 65.0
 Engine (101)..... CUM ISL 270 HP @ 2000 RPM; 2200 GOV RPM, 800 LB/FT @ 1300 RPM
 RPM at Peak Torque 1300
 Governed RPM 2200
 Transmission (342)..... ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
 Gear Ratio: LL N/A



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Gear Ratio: L	N/A
Gear Ratio: 1	4.59
Gear Ratio: 2	2.25
Gear Ratio: 3	1.54
Gear Ratio: 4	1
Gear Ratio: 5	0.75
Gear Ratio: 6	0.65
Gear Ratio: 7	N/A
Gear Ratio: 8	N/A
Gear Ratio: 9	N/A
Gear Ratio: 10	N/A
Gear Ratio: 11	N/A
Gear Ratio: 12	N/A
Gear Ratio: 13	N/A
Gear Ratio: 14	N/A
Gear Ratio: 15	N/A
Gear Ratio: 16	N/A
Gear Ratio: 17	N/A
Gear Ratio: 18	N/A
Auxiliary Transmission (352).....	NO AUXILIARY TRANSMISSION
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Transfer Case (373).....	NO TRANSFER CASE
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Rear Axle (420)	RS-23-240 23,000# R-SERIES 2-SPEED SINGLE REAR AXLE
Number of Speeds.....	2
Rear Axle Gear Ratio(s).....	6.14/8.38 REAR AXLE RATIO
Rear Tires (094)	MICHELIN XZE2 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile	501

TABLE SUMMARY - SHIFT CHART



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Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
1L	4.59	9.38	33.45	N/A	500	4.0	6.8
2L	2.25	8.33	18.56	104.0	1472	8.3	14.0
3L	1.54	8.38	12.91	46.1	2055	12.1	20.4
4L	1.00	8.33	8.38	54.0	1950	18.6	31.4
5L	0.75	8.33	6.28	33.3	1350	24.8	41.9
6L	0.65	8.33	5.45	15.4	1352	28.6	48.4

Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
1H	4.59	6.14	28.18	N/A	1512	5.5	9.3
2H	2.25	6.14	13.82	104.0	1612	11.3	19.1
3H	1.54	6.14	9.46	46.1	1812	16.5	27.9
4H	1.00	6.14	6.14	54.0	2149	25.4	42.9
5H	0.75	6.14	4.60	33.3	1650	33.8	57.2
6H	0.65	6.14	3.99	15.4	1907	39.0	66.0

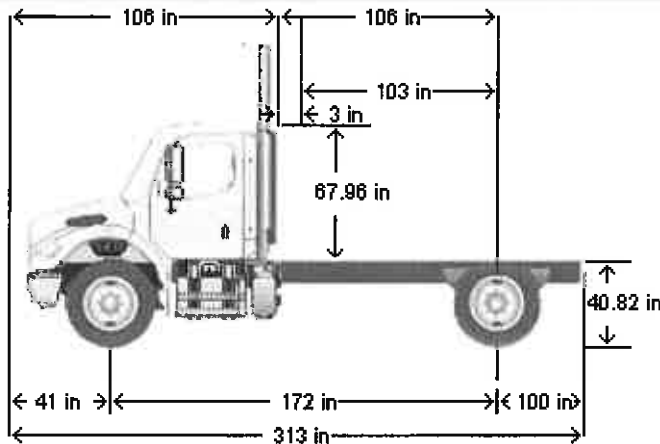
Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	M2106
Wheelbase (545)	4375MM (172 INCH) WHEELBASE
Rear Frame Overhang (552).....	2550MM (100 INCH) REAR FRAME OVERHANG
Fifth Wheel (578).....	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in).....	0
Slide Increment (in).....	0
Desired Slide Position (in).....	0.0
Cab Size (829).....	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE



Prepared for:
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Prepared by:
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 Mineral Springs, WV 26150
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TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	106.3
Bumper to Centerline of Front Axle (BA)	40.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	105.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	103.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	1.5
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	206.4
Cab Height (CH)	68.0
Wheelbase (WB)	172.0
Frame Overhang (OH)	100.0
Overall Length (OAL)	312.7
Rear Axle Spacing	0.0
Undersen Frame Height at Centerline of Rear Axle	40.8

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model M2106
Cab Size (829)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs)..... 12000.0
Expected Pusher Axle(s) Load (lbs)..... 0.0
Expected Rear Axle(s) Load (lbs) 21000.0
Expected Tag Axle(s) Load (lbs)..... 0.0
Expected GVW (lbs)..... 33000
Expected GCW (lbs)..... 0.0
Front Axle (400)..... DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620)..... 13,300# TAPERLEAF FRONT SUSPENSION
Front Hubs (418)..... CONMET PRESET PLUS IRON FRONT HUBS
Front Disc Wheels (502)..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS
Front Tires (093)..... MICHELIN XZE2 11R22.5 14 PLY RADIAL FRONT TIRES
Front Brakes (402)..... MERITOR 15X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536)..... TRW THP-60 POWER STEERING
Rear Axle (420)..... RS-23-240 23,000# R-SERIES 2-SPEED SINGLE REAR AXLE
Rear Suspension (622)..... 23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER
Rear Hubs (450)..... CONMET PRESET PLUS IRON REAR HUBS
Rear Disc Wheels (505)..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS
Rear Tires (094)..... MICHELIN XZE2 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423)..... MERITOR 16.5X7 Q+ STAMPED SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626)..... NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449)..... NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509)..... NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095)..... NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456)..... NO PUSHER/TAG BRAKES



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TABLE SUMMARY - GVWR

	Front	Rear
Axle Component Weight Ratings		
Axles	12000	23000
Suspension	13300	23000
Hubs	14700	28000
Brakes	13200	22000
Wheels	16300	32000
Tires	12350	23250
Power Steering	13300	N/A
GVWR (per axle)	12000	22000
GVWR (per axle system)	12000	22000
Expected Load (per axle system)	12000	21000
Vehicle GVWR Summary		
Calculated GVWR	34000	
Expected GVWR	33000	
<small>All weights displayed in pounds</small>		

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

- 1. Application is made for 2.5% vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. Application is made for 5% vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules. Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: West Virginia Tractor Company

Signed: [Signature]

Date: 8-3-15

Title: President

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code §61-5-3*) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: West Virginia Tractor Company

Authorized Signature: *Gayle W. Inady* Date: 8-3-15

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 3 day of August, 2015.

My Commission expires August 12, 2022

AFFIX SEAL HERE

NOTARY PUBLIC *Steven B. Basham*

Purchasing Affidavit (Revised 07/01/2012)

