



CITY OF TORRINGTON

PURCHASING DEPARTMENT
140 Main Street, Room 206
Torrington, CT 06790

Pennie Zucco, Purchasing Agent
Phone: (860)-489-2225
Fax (860)-489-2547
Email: pennie_zucco@torringtonct.org

January 16, 2020

Mayor Elinor Carbone
Members of the City Council
Members of the Board of Finance

RE: BID #JHT-031-121219 J-HOOK TRUCK WITH ATTACHMENTS

Three vendors submitted bids for the J-Hook Truck with Attachments for the City of Torrington Street Department. Two vendors submitted multiple packages for this bid.

Hine Brothers, Inc. Southbury, CT	1 bid
Nutmeg International Torrington, CT	4 bids (1 Cab & Chassis – 4 body packages)
Freightliner of Hartford East Hartford, CT	10 bids (1 Cab & Chassis – 5 body packages) (Alternate 1 cab/chassis – 5 body packages)

After reviewing proposals and a question & answer meeting with contractors, the recommendation of the Street Superintendent Bill Mayers and Assistant Tim Cote, Fleet Manager Emil Castro, Vehicle Replacement Board and Purchasing Agent for City Council to accept the recommendations and authorize the Mayor to award the purchase of one (1) J-Hook Truck with Attachments to Freightliner of Hartford, Inc., East Hartford, CT for \$201,749.67 pending City Council approval.

The truck chosen is the Freightliner cab & chassis with Equipment Services body package. The up-fit includes the Hook Lift system; the attachments include: two (2) 12' truck body flat beds; one (1) 12' – 12-yard container; (1) A-Frame for City supplied sander.

Funding for this vehicle with attachments will be from the Vehicle Replacement account.

Thank you for your consideration in this matter.


Pennie Zucco
Purchasing Agent

cc: E. Castro; B. Mayers; T. Cote; R. Drew

2020 JAN 16 PM 12:23
RECEIVED FOR RECORD
TORRINGTON TOWN CLERK



City of Torrington

Bid Name J-Hook Truck with Attachments

Bid Number JHT-031-12/2/19

Date of Opening December 12, 2019

Time of Opening 11:00 AM

VENDOR	BID BOND	NON-COLLUSION	BID AMOUNT				ADDENDUM
Time Bros. Inc. 27 Main St. S. Southbury, CT 06488	✓	✓	219364.51 468500 9000.00 4800.00 5750.00	Total #1 #2 #3 #4		✓	
John International 028 South Main St. Farmington, CT 06790	✓	✓	Total 175707.93 #1 57712.00 #2 8612.00 #3 3500.00 #4 4700.00	135767.93 65699.00 9550.00 4580.00 6750.00	48850.00 9000.00 4800.00 5750.00 1200.00	84346.00 7500.00 6500.00 1200.00	✓
Freightliner of Hartford Inc 222 Robert St. East Hartford, CT 06108	✓	✓	Total 301749.67 #1 77793.41 #2 5984.98 #3 4409.30 #4 5594.00	187519.00 59712.00 8612.00 3500.00 4700.00	189463.00 64780.00 7500.00 6500.00 1200.00	323218.00 90400.00 9000.00 4500.00 5750.00	178657.00
ALC Chassis			Total 194766.67 #1 77793.41 #2 5984.98 #3 4409.30 #4 5594.00	180536.00 59712.00 8612.00 3500.00 4700.00	182480.00 64780.00 7500.00 6500.00 1200.00	316235.00 96400.00 9000.00 4500.00 5750.00	171674.00
							57349.00 469500 3615.00 3720.00

Pennie Zucco

From: Bill Mayers
Sent: Wednesday, January 15, 2020 10:07 AM
To: Pennie Zucco
Cc: EMIL CASTRO
Subject: Hook Lift Truck Recommendation

Hi Pennie,

It is the recommendation of Fleet Manager Emil Castro and myself that we award the bid for the Hook Lift Truck to Freightliner of Hartford. The Vehicle Replacement Advisory Board has also recommended that we award this bid to Freightliner of Hartford. More specifically, the Board the Fleet Manager and myself all concur that we should award the bid to Freightliner of Hartford with Equipment Services as the body company for the total price of \$201,749.67. This package includes the cab & chassis, four bodies and equipment as outlined in the City bid specifications.

Respectfully,

Bill Mayers
Public Works Superintendent
107 Arthur Street
Torrington, Connecticut 06790

Hook Truck Bid Comparison

BODY COMPANY		Body Co. Notes	Hine	Nutmeg	Freightliner	Freightliner ALT
Equipment Services		Meets all specs			Cab & Chassis \$101,983.00 Body Package \$99,766.67 Total \$201,749.67 More tourq. 3 batteries. Upgraded engin fan. Mirors and creature comforts.	Cab & Chassis \$95,000.00 Body Package \$99,766.67 Total \$194,766.67
Total	\$99,766.67					
Hook Lift	\$77,793.41					
Flatbed	\$5,984.98					
Flat Bed Rack	\$5,984.98					
Container	\$4,409.30					
Mount Sander	\$5,594.00					
HP Fairfield		Swape Loader is not HD (not 24,000 lift cap). Rexroth no spreader auto download.		Cab & Chassis \$90,171.92 Body Package \$85,536.00 Total \$175,707.92 Cab not aluminum. Skip did not price w HX cab because he dose not think we need it. No T handle.	Cab & Chassis \$101,983.00 Body Package \$85,536.00 Total \$187,519.00	Cab & Chassis \$95,000.00 Body Package \$85,536.00 Total \$180,536.00
Total	\$85,536.00					
Hook Lift	\$59,712.00					
Flatbed	\$8,812.00					
Flat Bed Rack	\$8,812.00					
Container	\$3,500.00					
Mount Sander	\$4,700.00					
Truck Builders		Muncie spreader auto download? Apliroll hook lift. Listed options should be included per spec are not included in the price. 4800 psi w reducer	Rub rails on bodies?	Cab & Chassis 115,995.92 Body Package \$87,480.00 Total \$203,475.92	Cab & Chassis \$101,983.00 Body Package \$87,480.00 Total \$189,463.00	Cab & Chassis \$95,000.00 Body Package \$87,480.00 Total \$182,480.00
Total	\$87,480.00					
Hook Lift	\$64,780.00					
Flatbed	\$7,500.00					
Flat Bed Rack	\$7,500.00					
Container	\$6,500.00					
Mount Sander	\$1,200.00					
Park City		Highest body package price. Stellar lift hook. Has Cirus spreader.	Cab & Chassis \$94,414.51 Body Package \$124,950.00 Total \$219,364.51 No Chalmers suspension. Cab not aluminum.	Cab & Chassis \$115,995.92 Body Package \$124,950.00 Total \$240,945.92 2019.12.19 Skip not comfortable w this vendor. No formal bid was included.	Cab & Chassis \$98,268.00 Body Package \$124,950.00 Total \$223,218.00	Cab & Chassis \$91,285.00 Body Package \$124,950.00 Total \$216,235.00
Total	\$124,950.00					
Hook Lift	\$96,400.00					
Flatbed	\$9,000.00					
Flat Bed Rack	\$9,000.00					
Container	\$4,800.00					
Mount Sander	\$5,750.00					
New England Truck		Palfinger hook lift. Cirus Freedom 2 spreader has thumb drive download. Truck would have long CA 138-140			Cab & Chassis \$101,983.00 Body Package \$76,674.00 Total \$178,657.00	Cab & Chassis \$95,000.00 Body Package \$76,674.00 Total \$171,674.00
Total	\$76,674.00					
Hook Lift	\$59,349.00					
Flatbed	\$4,895.00					
Flat Bed Rack	\$4,895.00					
Container	\$3,815.00					
Mount Sander	\$3,720.00					
Viking Civs		Stellar lift hook. Rexroth no spreader auto download.		Cab & Chassis \$115,995.92 Body Package \$96,129.00 Total \$212,124.92 2019.12.19 Skip not comfortable w this vendor. No formal bid was included.		
Total	\$96,129.00					
Hook Lift	\$65,699.00					
Flatbed	\$9,550.00					
Flat Bed Rack	\$9,550.00					
Container	\$4,580.00					
Mount Sander	\$6,750.00					

Primary Bid



**CITY OF TORRINGTON
INVITATION TO BID**

BID #JHT-031-121219 J-HOOK TRUCK WITH ATTACHMENTS

Bid opening: December 12, 2019 Time: 11:00 A.M. Location: City Hall, 140 Main St. Rm 206, Torrington, CT

Bid Bond or Certified Check required with bid: 5%

Performance Bond required if awarded bid: 100%

SUBMIT ONE (1) ORIGINAL AND TWO (2) EXACT COPIES.

The City of Torrington reserves the right to accept or reject any or all bids or any portion thereof, to waive technicalities, and to award the contract as will best serve the public interest.

Omit State and Federal Taxes.

All prices must be F.O.B.: Destination (Torrington) unless otherwise requested.

Dated in Torrington: November 13, 2019

Purchasing Agent _____
Pennie Zucco

Item	Price
J-HOOK TRUCK WITH ATTACHMENTS PER SPECIFICATIONS	**See Appendix A – Cost Proposal**

The Purchasing Agent is authorized to offer City based bidders that exceed the lowest bid by up to 6%, the opportunity to match the lowest bid. A City based bidder within the 6% differential who agrees to accept the amount of the lowest bid will be awarded the bid. When multiple City based bidders agree to accept the amount of the low bid then the City based bidders will be invited to submit a new bid, not to exceed the low bid. The bid will then be awarded to the lowest responsive, responsible bidder.

Bidder: Freightliner of Hartford, Inc.

Address: 222 Roberts Street, East Hartford, CT 06108

(Signed By) Greg Martinotti Title: Municipal Sales

Name (please print) Greg Martinotti Date: 12/10/19

Phone: 860-559-9547 Fax: 860-610-6242

E-Mail: greg@fohct.com

Federal Tax Identification Number: (FEIN) 06-0980898

Comments: Chassis being offered on a while supply lasts basis as this is a stock chassis.

SAMPLE FORM
 Bid # JHT-031-121219

NON-COLLUSION AFFIDAVIT

STATE OF Connecticut COUNTY OF Hartford

I, Greg Martinotti, being first duly sworn, deposes and says that:

1. I am Greg Martinotti of Freightliner of Hartford, Inc., the bidder that has submitted the attached request for proposal for Bid #: JHT-031-121219: J-Hook Truck with Attachments
2. I am fully informed respecting the preparation and contents of the attached RFP and of all pertinent circumstances respecting such bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties of interest, including this affiant, has in any way colluded, conspired, connived or agreed directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the work for which the attached Bid has been submitted nor has it in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the price of any Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Torrington or any person interested in the proposed Bid; and
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Printed) Greg Martinotti

(Signed) Greg Martinotti

(Title) Municipal Sales

Subscribed and sworn to before this 10th day of December, 2019.

Judith Gwozdz
 Notary Public Printed
Judith Gwozdz
 Notary Public Signature

JUDITH A. GWOZDZ
 My commission expires NOTARY PUBLIC
 MY COMMISSION EXPIRES SEPT. 30, 2024

NOTE: Documents must be signed before and sealed by a Notary Public. Only documents bearing a notary seal will be accepted.

Freightliner of Hartford, Inc.
Primary Bid

Proposal 1 of 5

APPENDIX A - PRICE SHEET w/ Equipment Service
CITY OF TORRINGTON
J-HOOK TRUCK WITH ATTACHMENTS
JHT-031-121219

BID OPENING DATE: DECEMBER 12, 2019 11:00 AM

Total bid Price dollars and cents: \$201,749.67

Total Base bid price in words: Two hundred one thousand seven hundred forty-nine dollars and sixty-seven cents.

BODIES (OPTION COST)

(1) Swap Loader SL-2418HD Hook Lift System \$77,793.41

(2 ea.) SH Truck Bodies Flatbed 12' \$5,984.98 ea. = \$11,969.96 Total

(1) 12' 12-yard Container \$4,409.30

(1) A-Frame & customer supplied sander installation \$5,594.00

ETA Delivery 90-120 days after receipt of order.

Company name: Freightliner of Hartford, Inc. Date: 12/10/19

Address: 222 Roberts Street, East Hartford, CT 06108

Company Representative (signature) Greg Martinotti

Title: Municipal Sales - Greg Martinotti

Federal Tax Identification Number: (FEIN) 06-0980898

STATEMENT OF REFERENCES
CITY OF TORRINGTON
J-HOOK TRUCK WITH ATTACHMENTS
JHT-031-121219

List at least three (3) business references which demonstrate your ability to complete the work included with the scope of the specifications. Attach additional pages if required. The City reserves the right to contact each of the references listed for additional information regarding your company's qualifications.

Reference No. 1

Customer Name/Email: State of CT - ConnDOT James.Chupas@ct.gov
Contact Individual: Jim Chupas Phone No: 860-594-2639
Address: 2800 Berlin Turnpike, Newington, CT 06131
Contract Amount: Open Year: Multi year contract since 2012
Description of equipment: Various types of snow & ice trucks including hook-lift units

Reference No. 2

Customer Name/Email: Town of Clinton thajek@clintonct.net
Contact Individual: Todd Hajek Phone No: 860-664-1100
Address: 117 Nod Road, Clinton, CT 06413
Contract Amount: \$201,258.44 Year: 2018
Description of equipment: Various types of snow & ice trucks including hook-lift unit.

Reference No. 3

Customer Name/Email: Town of Burlington sthara@yaho.com
Contact Individual: Scott Thara Phone No: 860-673-2439
Address: 66 Belden Road, Burlington, CT 06013
Contract Amount: Various Year: 2017 to current
Description of equipment: Various Plow trucks

Reference No. 4

Customer Name/Email: Town of Simsbury Kclemens@simsbury-ct.gov
Contact Individual: Kevin Clemens Phone No: 860-658-5278
Address: 66 Town Forest Road, Simsbury, CT 06070
Contract Amount: Various Year: 2016 to current
Description of equipment: Various Plow Trucks

Reference No. 5

Customer Name/Email: Town of Fairfield gcornwell@town.fairfield.ct.us
Contact Individual: Geoff Cornwell Phone No: 203-256-3185
Address: One Rod Highway, Fairfield, CT 06824
Contract Amount: Various Year: 2014 to current
Description of equipment: Various Plow Trucks



CITY OF TORRINGTON
Addendum # 1

ADDENDUM #1 ISSUED FOR SUBMITTED QUESTIONS/ANSWERS FOR J-HOOK TRUCK WITH ATTACHMENTS

BID #JHT-031-121219 J-HOOK TRUCK WITH ATTACHMENTS

Bid opening: December 12, 2019 Time: 11:00 A.M Location: City Hall, Room 206, 140 Main St., Torrington, CT

Must Submit signed addenda with bid.

The City of Torrington reserves the right to accept or reject any or all bids or any portion thereof, to waive technicalities, and to award the contract as will best serve the public interest.

Dated in Torrington: December 2, 2019 Purchasing Agent _____

Contact name Greg Martinotti Phone: Pennie Zucco
860-559-9547

Authorized Representative Greg Martinotti

Authorized Signature Greg Martinotti

Company name Freightliner of Hartford, Inc. email greg@fohct.com

Address 222 Roberts Street, East Hartford, CT 06108

QUESTIONS AND ANSWERS 12/2/19

Q1) Is a Steel Constructed cab with a 10-year warranty acceptable or aluminum only?

A1) The specifications provided are baseline for what the City is looking for. Steel cab construction with a ten year warranty is acceptable as long as the warranty is accompanied with the bid so that the limitations will be available for review. *Aluminum cab being provided.*

Q2) Is the Chalmers suspension the only acceptable one? We are aware of several rear end housing failures with Chalmers suspension that were long term because it requires a special housing?

A2) The specifications provided are baseline for what the City is looking for. You can present your truck as you see fit, vendor must supply back up information to defend choice of suspension *chalmers suspension being provided.*

Q3) Is the Swaploader the only hook manufacturer acceptable? We have provided Stellar for Clinton, Thomaston and Wilton, New Milford for years. They accept the same containers and accessories on skids that work on both mfg. hook units.

A3) If you have a hook manufacturer that meets or exceeds what is mentioned in the specifications, the City will give them consideration. *Body company item.*

Q4) The "T" handle shifter has been obsoleted by the mfg. can we submit an alternate type?

A4) The City of Torrington requests the T handle for plowing *T-handle shifter is being provided.*

Q5) I had a question regarding the transmission and engine combination. According to Allison, it does not appear you can use a Cummins L9 with 370 HP with an Allison 3500 RDS transmission. Is there another combination the town would prefer?

A5) The combination should be Cummins L9 350 HP with Allison 3000 RDS automatic transmission with PTO provision *Cummins L9 350HP with Allison 3000RDS transmission is being provided.*

**CITY OF TORRINGTON
J-HOOK TRUCK WITH ATTACHMENTS
SPECIFICATIONS
JHT-031-121219**

The City of Torrington is requests bids for the purchase and delivery of one (1) new 4X2 (GVWR 47,000) Hook Lift Unit with body package to be used by the Public Works Department Street Division. The truck and attachments shall be delivered to 107 Arthur Street, Torrington CT 06790 during scheduled working hours. The J-Hook truck must meet the minimum specifications provided with this bid package. **Vendor must include manufacturer and specifications of the J-Hook truck with attachments to be supplied.** Any deviation from the specifications must be clearly cited in detail, in writing, by the bidder and submitted with the bid. In addition, NO deviations below "minimum" specifications as written will be accepted.

SPECIFICATIONS:

- ✓> **AXLE CONFIG:** 4X2
- ✓> **APPLICATION:** Hook Lift Unit
- Exceed> **GVWR:** 47,000, LBs *47,120 lb. GVW*
- ✓> **DIMENSION:** Wheelbase: 168" (or what is needed for application)
- Per Addendum> **ENGINE, DIESEL:** {Cummins L9 370} compression brake for the L9 350HP. *Exceed 1150 lb/ft Torque*
- Per Addendum> **TRANSMISSION, AUTOMATIC:** {Allison 3500 RDS with PTO Provision, Shift controls "T" handle type} *3000 RDS with T-handle shifter.*
- Body Co.--> **Cirus SpreadSmart Spreader Control with Data Management**
- Body Co.--> **Road Watch Non-Contact Temperature System**
- ✓> **AXLE, FRONT NON-DRIVING:** Taper leaf front Suspension, 20,000-lb Capacity:
- ✓> **AXLE, REAR, SINGLE:** Chalmers Suspension 30,000 lb. capacity
- ✓> **CAB:** Conventional, Flat roof Aluminum with Heated windshield single piece
- Equal > **TIRE, FRONT:** Two (2) 315/80R22.5 Load Range L G289 WHA *Continental HAK 3 WT 20ply*
- Exceed> **TIRE, REAR:** Four (4) 12R22.5 Load Range H G622 RSD *Michelin XDS 16ply*
- ✓> **PAINT:** White
- Exceed> **RADIO:** AM/FM radio *Bluetooth Kenwood after market system*
- > **COMMUNICATION SYSTEM:** Marcus Communication will install new 2-way digital Communication system

Hook configuration:

- ✓• TOW HOOK, FRONT (2) Frame Mounted, TOW HOOK, REAR (2)

Trailer Connections:

- ✓• Air connections to end of frame with glad hands for truck and dust covers
- ✓• Primary connector/receptacle wired for combination stop/turn, center pin powered through ignition with stop signal prewire package
- ✓• 7-way primary trailer cable receptacle mounted at end of frame
- Body Co.--> Rear bumper with 25-ton pintle hitch, D-rings, 7 prong trailer plug

Brake System: ABS

- ✓• Reinforced nylon, fabric braid and wire braid chassis air lines.
- ✓• Fiber braid parking brake hose
- ✓• Standard brake system valves
- ✓• Standard air system pressure protection system
- ✓• Relay valve with 5-8 psi crack pressure.

Freightliner of Hartford, Inc.
Primary Bid

- Exceed • BW AD-9SI brake line with air dryer heater Wabco System Saver HP w/integral governor, heater and oil coalescing filter,
- Exceed • Steel air brake reservoirs Aluminum air brake reservoirs,
- ✓ • Dust shields, front and rear brakes

Fuel tank:

- ✓ • 50-gallon short rectangular aluminum fuel tank with painted bands
- ✓ • High temperature reinforced nylon fuel lines.
- Exceed • Water in fuel sensor with fuel/water separator hand primer pump and 12V preheater.

Led Lighting:

- Body Co. - • 360-degree strobe light capability (lighting location T.B.D.)
- Body Co. - • (2) rear facing led working lights

Cab Interior:

- ✓ • Heavy duty onboard diagnostics interface connector located below dash left side
- ✓ • Smart plex hub module with overhead switch mounting, drivers' side and center console (12 switch slots)
- ✓ • Gray vinyl interior
- ✓ • High visibility orange seat belts
- ✓ • Black mats with single insulation
- ✓ • Center storage console
- Exceed • (2) radio speakers in cab (4) Four radio speakers in cab
- ✓ • (2) cup holders left and right-hand dash
- ✓ • 2 ½ lb. fire extinguisher
- ✓ • Heater, defroster and air conditioner
- ✓ • Windshield heated, single piece
- ✓ • Standard HVAC ducting with snow shield for fresh air intake
- Exceed • Wiper blades snow type Wiper motor with delay programmed to slowest speed with park brake set.
- ✓ • Solid-state circuit protection and fuses
- ✓ • Dome door activated left and right, dual reading lights forward cab roof
- ✓ • 12-volt power supply in dash
- ✓ w/derivation • Power windows left and right doors with express down failure LH/RH power windows provided, our manufacturer does not offer an express down feature at this time.
- ✓ • High back air suspension driver seat with 3 air chamber air lumbar, intergraded cushion extension, forward and rear cushion tilt, adjustable shock absorber
- Exceed • high back non-suspension passenger seat with tool box underneath for storage,
- ✓ • Adjustable tilt and telescoping steering column
- ✓ • Driver and passenger interior sun visors
- Body Co. • Electric trailer brake control

Cab Exterior:

- ✓ • Air cab mounting
- ✓ • Bug screen mounted behind the grill
- ✓ • Short fender with mud flap
- ✓ • Left hand and right-hand grab handles
- ✓ • Bright finish radiator shell/hood bezel
- Exceed • Stationary grill with bright accents

Freightliner of Hartford, Inc.
Primary Bid

- Exceed • Single 14-inch air horn mounted under cab with horn shield
✓ • Led aerodynamic marker lights
Exceed • Door mounted mirrors heated Bright finish with LH & RH powered heads

Lubrication System:

- ✓ • Automatic Lubrication System installed by Lubrication Technologies (large capacity grease reservoir required) Chassis (excluding drive line), Body system excluding tarp. Tarp manufacturer strongly recommends greasing manually when needed.

Load cover:

- Body Co. - • The cover should be hydraulically controlled Gantry style tarp system

Plow hitch:

- Body Co. - • The Plow Hitch will be a low-profile tilt over type with 5/8" check plates braced back on the frame rails as far as possible, 4"x10" double acting lift cylinder, drive ears on 30 1/2" centers hood mounted aluminum brackets
Body Co. - • Hydraulic hoses run to the rear for sander operation
Body Co. - • Heated led plow lights
Body Co. - • 13" from ground to bottom of hitch plate

Bodies:

- Body Co. - • **Swap Loader SL-2418HD Hook lift system:**
Body Co. - • 24,000 lbs. dumping capacity and 24,000 lbs. lifting capacity with the gross weight evenly distributed on the body.
Body Co. - • Needs to be able to handle sub frame mounted bodies with lengths of 10' -13' with the optimum body length being 10'-12'

Two (2) EA. SH Truck Bodies Flatbed 12':

- Body Co. - • 102' wide x 12'6" Platform/Stake Body, Super Duty
Body Co. - • 7-gauge smooth steel floor with raptor non-slip bed liner applied on platform floor
Body Co. - • 48" bulkhead liner with screen window
Body Co. - • Swaploader Hook lift A-frame kit for Model SL-2418
Body Co. - • 54" hook height
Body Co. - • 6"x2"x1/4" tubing A-Frame and Understructure
Body Co. - • (2) 8" rear pipe rollers
Body Co. - • 41-1/2" Outside long sill width spacing

12' 12-Yard Container:

- Body Co. - • Steel construction
Body Co. - • Swing type tail gate with heavy duty hinges and locking mechanism

A-Frame

- Body Co. - • **Mount customer supplied sander on hook lift A-frame**
Body Co. - • Remove existing mounts and tail gate lock
Body Co. - • Fabricate new mounting legs
Body Co. - • Fabricate belly pan for under sander
Body Co. - • Fabricate new rear roller sections to complete installation

City of Torrington
Bid #: JHT-031-121219
Primary Bid

Freightliner of Hartford, Inc.
Additional Areas Where We EXCEED

- Side of hood air intake with firewall mounted Donaldson air cleaner with safety element and Inside/Outside air snow door.
- Jake brake activates stop lamps when on.
- (3) Three flooded starting threaded stud batteries with 2850 cca's.
- RH vertical exhaust with stainless-steel shields and curved top stack.
- Horton 2-speed Drivemaster Advantage PolarExtreme fan drive.
- Fleetguard coolant filter.
- 1000-Watt / 115-Volt block heater.
- Delco 12V 39MT HD/OCP starter with thermal protection and integrated magnetic switch.
- Allison transmission set for 3rd gear with secondary programming on Mode feature.
- Electronic transmission customer access connector firewall mounted.
- Front and rear slack adjusters with stainless-steel clevis pins.
- TRW THP-60 power steering with RCH45 auxiliary gear, 4-quart power steering reservoir and oil/air power steering cooler.
- Synthetic 75W-90 front and rear axle lube.
- Maintenance free rubber bushings – front suspension.
- Front shock absorbers.
- Driver controlled traction differential with one switch, blinking lamp with each mode switch, differential unlock with ignition off, active < 25 mph.
- MGM TR-T longstroke 1-drive axle spring parking chambers.
- Wabco 4S/4M ABS with traction control.
- Pull cables on all air reservoirs.
- 7/16" x 3-9/16" x 11-1/8" steel frame.
- Heavy duty steel wheels front and rear.
- Front wheels static balancing with lead-free weights.
- Bolt-on molded flexible fender extensions.
- Chrome hood mounted air intake grill.
- Hood liner, added firewall and floor heat insulation.
- Dual electric city horns.
- Halogen composite headlamps with bright bezels.
- Headlights on with wipers, with low beam daytime running lights.
- RH down view mirror.
- RH and LH 8" heated stainless-steel fender mounted convex mirrors with tri-pod brackets.
- RH after-treatment system cab access with plain diamond plate cover.
- Composite exterior sunvisor.

- Tinted door glass LH and RH with tinted operating wing windows.
- Aluminum kickplates on lower LH and RH inner doors.
- Wing dash.
- Premium insulation.
- LH & RH power door locks.
- Triangular reflectors.
- Dual driver seat arm rests.
- Black Cordura Plus LH & RH seat covers.
- 107db Back-up alarm.
- 2" Transmission temperature gauge.
- Dash mounted factory PTO switch.
- Power & ground wiring provision overhead for customer installed 2-way radio system.
- Auxiliary vehicle speed sensor harness wired into cab mounted between seats for body builder integration of controller.
- Pre-trip lamp inspection switch dash mounted.
- Factory wired plow light harnesses for body builder installed snow plow lights hood mounted.
- Two-valve park brake system with auto-neutral.
- Cummins Protection Plan #1 extended warranty for 5-years / 100,000 miles with zero-hour limitation.
- Cummins After-treatment device extended warranty for 5-years / 100,000 miles with zero-hour limitation.
- Heavy duty removable slush catching floor mats.
- Free transportation to and from any time this unit or any other unit in the cities fleet that you want Freightliner of Hartford to work on. This is regardless weather the unit is under warranty or not.

MANUALS:

- ✓ • An original manufacture's brochure of proposed product is to be submitted with proposal.
- ✓ • Complete operators, parts and service manuals to be included. Manuals to be delivered with the equipment for contract to be considered fulfilled.
- ✓ • Training on the unit to be included. Upon delivery of the equipment, the contractor shall coordinate a training schedule with the using agency's personnel.
- ✓ • Delivery time of the equipment shall be as specified in the offer form, and responsibility for the equipment remains with the contractor until satisfactory completion of acceptance tests and formal written acceptance by the City of Torrington.
- ✓ • **ALL TITLES OR CERTIFICATES OF ORIGIN AT TIME OF DELIVERY.**

**AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER
MBE'S WBE'S AND SBE'S ARE ENCOURAGED TO APPLY**

The bidder hereby acknowledges receipt of and agrees this submittal is based on the BID and the following addenda. Failure to indicate receipt of addenda may result in the bidder being rejected as nonresponsive.

ADDENDUM # 1 DATED 12/2/19 ADDENDUM _____ DATED _____

ADDENDUM # _____ DATED _____ ADDENDUM _____ DATED _____

ADDENDUM # _____ DATED _____ ADDENDUM _____ DATED _____

(If additional addenda are issued, attach a complete listing of these addenda when submitting this bid.)

The City of Torrington reserves the right to award or reject any or all bids, or any portion thereof, to waive technicalities, to award the contract to a bidder other than the lowest bid and to award the bid and/or contracts to one or more bidders submitting essentially identical proposals and that, in the city's judgment, will best serve the public interest.



**CITY OF TORRINGTON
J-HOOK TRUCK WITH ATTACHMENTS
JHT-031-121219**

1. GENERAL

The City of Torrington is requesting sealed bids for the purchase and delivery of a new 4X2 (GVWR 47,000) Hook Lift truck with body package. The Hook truck/body package must meet the minimum specifications provided with this bid packet. **Vendor must supply manufacturer and specifications of the Hook Truck/body package with bid.**

2. BID PROCEDURES

All bids shall be submitted on forms provided by the City of Torrington and addressed to the Purchasing Agent, City of Torrington, 140 Main Street, Room 206, Torrington, CT 06790. All bids must include the vendor's name and address and be signed by an authorized officer or employee of the vendor submitting the bid. Bids will be opened **on December 12, 2019 at 11:00 AM**. Sealed bid envelopes shall be clearly marked "**JHT-031-121219, J-HOOK TRUCK WITH ATTACHMENTS**". Bids received after the above scheduled date and time will be rejected and returned unopened. **No faxed or email bids will be accepted.**

3. INQUIRIES

The Deadline for submitted questions is **December 2, 2019 by 4:00 PM**. Questions directed to Pennie Zucco, Purchasing Agent, pennie_zucco@torringtonct.org. Vendor responsible to check City website for addendum/updates 48 hours prior to bid opening.

Specifications are available online at www.torringtonct.org. For Administrative questions contact Pennie Zucco, Purchasing Agent at pennie_zucco@torringtonct.org. For technical questions contact Fleet Manager, Emil Castro, emil_castro@torringtonct.org.

Additionally, after bids are received, the City reserves the right to communicate with any or all of the proposers to clarify the provisions of this request. The City further reserves the right to request additional information at any time after proposals are opened.

Any alleged oral agreement made by a bidder or contractor with any agency or employee of the City of Torrington shall be disregarded.

All information given by the city except by written addendum shall be informal and shall not be binding upon the City nor shall it furnish a basis for legal action by any Proposers against the City. Vendor responsible to check City website for addendum to be submitted with bid.

All bids will be considered valid for a period of sixty (60) days.

**AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER
MBEs, WBEs and SBEs ARE ENCOURAGED TO APPLY**

INSTRUCTION TO BIDDERS

Sealed bids will be received by the Purchasing Agent, Room 206, 140 Main St., Torrington, CT until the time and date specified on the cover sheet and opened thereafter in the Purchasing Department, Room 206. Bids received later than the date and time specified will not be accepted. In the event of the closure of City Hall, proposals will be opened on the following business day that City Hall is opened. Amendments to or withdrawal of any section of the submitted bid received later than the time & date set for the bid opening will not be considered. Bid proposals must remain in effect for a minimum of 30 days unless otherwise noted elsewhere in the bid specifications.

BID DOCUMENTS: are available upon receipt of this invitation (if not attached) over the Internet at the City's web site: www.torringtonct.org UNDER "Open Bids". Adobe Acrobat reader is required to view this document. If you do not have this software you may download it for free from Adobe at <http://www.adobe.com>. Businesses without internet access may contact the Purchasing Department at 860-489-2224 for a copy of the bid documents.

NONAPPROPRIATION: All funds for payment by the City under this contract are subject to the availability of an annual appropriation for this purpose by the City. In the event of non-appropriation of funds by the City Council of the City of Torrington for the goods or services provided under the contract, the City will terminate the contract, without termination charge or other liability, on the last day of the then-current fiscal year or when the appropriation made for the then-current year for the goods or services covered by this contract is spent, whichever event occurs first. If at any time funds are not appropriated for the continuance of this contract, cancellation shall be accepted by the Seller on thirty (30) days prior written notice, but failure to give such notice shall be of no effect and the City shall not be obligated under this contract beyond the date of termination.

BID BONDS: shall be in the amount of 5% of the total bid made out in favor of the City of Torrington and issued by a Surety company acceptable to the City of Torrington must accompany each bid. A certified check, cashier's check, Treasurer's check, or money order in the same amount may be submitted in lieu of the bid bond. Bids submitted without Certified Check or Bid Bond will not be accepted. The City of Torrington will not be held liable for the accrual of interest on any check held by the city in conjunction with this bid. All checks or bid bonds will be refunded to the unsuccessful bidders after award of the bid by the City Council. The deposit check or Bid Bond of the successful bidder will be held in escrow until such time as the city determines that the bidder has or will meet their obligations as stated by the bid. If the bidder fails or refuses within a reasonable time after due notice that the contract has been awarded to him, to execute the same, an amount representing a loss to the city by reason of such failure shall be retained and paid into the city treasury.

REPLIES: whether bid or no bid, submittal must have the bid number clearly identified on the outside of the envelope. Bidders not marking the envelopes with the Bid number and date/time of opening on the envelope will have no recourse against the City of Torrington or its employees. Such bidders run the risk of the bid being opened prior to the scheduled Bid Opening time. Once opened such bids are public record. Any alleged oral agreement made by a bidder or contractor with any agency or employee of the City of Torrington will be disregarded.

FREIGHT: Prices quoted shall be net delivery F.O.B. Torrington, CT. All bid prices must include prepaid delivery, assembly, and/or installation (ready for operation and/or use) of all equipment and/or materials to the individual locations(s) as designated by the Purchasing Agent. All bid prices are to be submitted on the sheets provided on this bid. Quantities and pricing are to be listed in accordance with these sheets.

QUESTIONS: Request for interpretation of any portion of the bid may be made to the Purchasing Agent: Voice 860/489-2225, Fax 860/489-2547 and email: pennie_zucco@torringtonct.org. All bidders questions pertaining to the contract specifications and plans under this contract shall be placed in writing and addressed to: City Purchasing Agent, 140 Main Street, Room 206, Torrington, CT 06790; Any Fax or email shall be followed up with a telephone call to verify receipt. Bidders should check the web site for addendums/updates 48 hours prior to the bid opening.

In the event of receipt of identical bids as to offerings, delivery, service, content, price, etc., the bid will be awarded in accordance with the information contained in the bid document, based on first received as to date and time of receipt of the bid.

EXPARTE COMMUNICATION: Please note that to insure the proper and fair evaluation of a bid, the City of Torrington prohibits exparte communication (i.e., unsolicited) initiated by the Bidder to a City Official or Employee evaluating or considering the bids prior to the time a bid decision has been made. Communication between Bidder and the City will be directed in writing to the Purchasing Agent only. The Purchasing Agent will obtain the information or clarification needed. Exparte communication may be grounds for disqualifying the offending Bidder from consideration or award of the bid and repeat offenders may be disqualified from future bids.

NON-COLLUSION STATEMENTS: In order for bids to be considered, a non-collusive statement must be submitted with the bid. A sample non-collusive bid statement is attached. Bidders may elect to submit their own notarized non-collusion statement. **NOTE:** Documents must be signed before and sealed by a Notary Public. Only documents bearing a notary seal will be accepted.

CONDITIONAL, QUALIFIED OR NON-RESPONSIVE BIDS/PROPOSALS: All bids/proposals shall be submitted in the form and manner as indicated by the bid documents and bid forms. Any proposal which is not submitted in the form and manner indicated by the bid documents or which contains information, statements, conditions, or qualifications which place conditions or qualifications on the proposal submittal for purposes of making an award, or which alter any proposal terms, conditions, specifications, or forms, which has not been previously approved by written addendum from the Purchasing Agent, or which does not meet legal requirements, shall be declared as a qualified, conditional, or non-responsive proposal and shall be rejected without further consideration. Any proposal response that does not fully respond to and comply with all detailed specifications or requests for information including execution of proposal forms, may be declared "non-responsive" and recommended for rejection. The City of Torrington shall not be responsible for any errors or omissions of the respondent.

UNBALANCED BIDS AND/OR EXCESSIVE LINE ITEM PRICES: The City reserves the right to reject any bids in which unit prices, in the sole opinion of the City, are unbalanced. In addition, where the City has decided to make an award, it further reserves the right to non-utilize a particular line item that in the sole opinion of the City is excessively priced, and reserves the right to obtain that item from another source.

CONTRACT: A response to an Invitation to Bid is an offer to contract with the City of Torrington based upon the terms, conditions, and specifications contained in the City's ITB. Bids do not become contracts unless and until executed by the City, eliminating a formal signing of a separate contract. For that reason, all of the terms and conditions of the contract are contained in the ITB, unless any of the terms and conditions are modified by an ITB Amendment, a Contract Amendment, or by mutually agreed terms and conditions in the contract documents.

TAXES: Omit all State and Federal taxes from the bid. The City of Torrington is exempt from the payment of taxes imposed by Federal government and/or the State of Connecticut.

OWNERSHIP OF DOCUMENTS: All documents, including drawings, plans, specifications, videotapes, or other documents or maps prepared by a contractor pursuant to any agreement arising from this bid shall become the property of the City of Torrington upon completion of the project or any termination of the project prior to the completion of the project.

LEGALITY: All bid offers for commodities, work, materials, or equipment hereunder shall comply in every respect with the laws, specifications and requirements of the State of Connecticut and the Federal government. Contractor will comply with the provisions of the Connecticut Fair Employment Practices Law.

LANGUAGE DISPUTES: Any disputes over the interpretation and/or meaning of any individual terms, conditions, and/or language within this Request for Bid/Proposal document shall be resolved by and at the sole discretion of the City Purchasing Agent in a manner that is in the best interest of, and best advantage to, the City of Torrington, provided any such interpretation shall be reasonable. In the event that an individual term, condition, and/or language/wording is determined at any time, including after award, by the City Purchasing Agent to be "not applicable at all" to this contract, then the term, condition, and/or language/wording may be disregarded, even though an addendum is not issued. However, if the Purchasing Agent determines that the term, condition, and/or language/wording "is applicable in part", then the term, condition, and/or language/wording will apply to the degree applicable, even though an addendum is not issued.

INDEMNIFICATION: The Contractor shall save the City of Torrington, its agents or employees, harmless from liability of any kind for all claims of labor payments and materials furnished for this work, and for use of any copyrighted or uncopyrighted composition, secret process patented or unpatented invention, article or application furnished or used in the performance of the contract of which the Contractor is not the patentee, assignee, or licensee. To the fullest extent permitted by law, The bidder shall indemnify and hold harmless the Municipality, its officers, agents, servants and employees from and against all liability, claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance or lack of performance of the work, provided that any such liability, claim, damage, loss or expense is (a) attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, including the loss of use resulting hereto from and (b) is caused in whole or in part by any negligent act or omission of the Bidder, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them are liable.

In any and all claims against the Municipality, its officers, agents, servants and employees by any employee of the Bidder, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for those acts any of them may be liable, the indemnification obligation under these sections to be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Bidder or any Subcontractor under Worker's Compensation Acts, Disability Benefit Acts or other employee benefit acts.

The successful bidder, vendor, and/or contractor must protect all property of the City of Torrington (i.e. all floors, furniture, grass, land, etc.) from injury or other damage. Any damage so caused must be repaired by contractor/vendor at his/her own expense. At the completion of work, the vendor and/or contractor must remove from the premises all surplus materials and all debris created by same. The premises must be left in a broom-clean and finished condition acceptable to the owner or its agents. Successful bidder will furnish adequate protection from damage for all work and to repair damage of any kind; for which he or his workers are responsible, to the premises or equipment to his own work or to the work of other contractors.

Freightliner of Hartford, Inc.
Primary Bid

DEFAULT: It shall be understood that a bidder supplying equipment and/or supplies will be considered to be in default if/when they have not delivered the item(s) within the time constraints listed in this document or subsequent purchase orders and/or contract. Bidders providing a service and/or construction will be considered to be in default if/when they have failed to meet the completion date set forth in this document or its subsequent contract and/ or purchase orders and/ or they have ceased work on the project for a period of fifteen (15) working days, cumulative or consecutive.

SUSPENSION AND DEBARMENT: The Purchasing Agent may suspend or debar the right of a vendor to be included on the vendor list and has the authority to reject any bid or response from any suspended or debarred vendors.

Suspension: A vendor may be suspended based on the following:

- 1) A vendor defaults or fails to fully comply with the conditions, specifications, or terms of a Bid, Quotation, Proposal or Contract with the City of Torrington.
- 2) A vendor commits any fraud or misrepresentation in connection with a Bid, Quotation, Proposal, or Contract with the City of Torrington.
- 3) A vendor is charged by a court with the commission of a criminal offense as incident to obtaining or attempting to obtain a public or private contract or sub-contract, or in the performance of such contract or sub-contract
- 4) A vendor is charged by a court with the following: embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which currently, seriously, and directly affects responsibility as a City contractor. If charges are dismissed or the vendor is found not guilty, the suspension shall be lifted automatically upon written notification and proof of final court disposition provided by the vendor to the City of Torrington.
- 5) A vendor becomes insolvent, has proceedings in bankruptcy instituted against it or, compounds its debts or assigns over its estate or effects for payment thereof, or has a receiver or trustee appointed over its property.
- 6) A vendor's commission of any act or omission to perform act is grounds for debarment.
- 7) A vendor violates the ethical standards set forth in local, state, or federal law.
- 8) Any other cause the Purchasing Agent determines to be so serious and compelling as to materially and adversely affect responsibility of a vendor as a City contractor, including but not limited to suspension by another government entity

Debarment: A vendor may be permanently debarred for the following:

- 1) Default or failure to fully comply with the conditions, specifications, drawings, or terms of a bid, proposal, or contract with the City of Torrington twice in any three-year period.
- 2) Conviction of or judgment obtained in a court for commission of those offenses in connection with the vendor's commercial enterprise stated sections 3) or 4) of suspension section listed above. If the conviction is reversed through the appellate process, the debarment shall be removed upon written notification and proof of final Court disposition from the vendor to the City of Torrington.

TRADE NAME REFERENCES: Any and all references to trade names, types, styles, model numbers, stock numbers or catalogs are intended to be descriptive only and not restrictive. The intention is to indicate to bidders the type and quality of the articles and or materials that will be satisfactory. When reviewing the information, it is the responsibility of the prospective bidder to inform the City of Torrington of any discrepancy that is found (i.e. number listed does not fit item description) Bids received on other makes or models with reference to other catalogs will be considered. The bidder is to clearly state in his bid exactly what he intends to furnish and to furnish with his bid a cut or illustration or other descriptive matter that will clearly indicate and give specification as to the product he/she proposes to furnish. Where a bid is offered on an item other than the trade standard used in the specification the item should be identified on the bid form by entering the MAKE, TRADE NAME AND MODEL NUMBER. It is understood that any substitute and/or alternate that might be offered are guaranteed by the bidder to be of equal or better quality than is referenced in the bid. The item(s) must be equivalent as to function, basic design, type and quality of material, method of construction and any required dimensions. It shall be further understood that during original as well as subsequent shipments spot checks will be performed to insure that the items received are in fact the items offered in the bid. When received, should items/materials prove to be different from what was bid in any way, the bidder agrees to the return of the items and agrees to supply correct items (per bid specifications) at the bidders expense. In the event this return action is required, it is understood the bidder may be subject to removal from the city's approved bidder's list. Bidders are cautioned that surplus, seconds, factory rejects, floor samples, close outs or distressed items are not acceptable and shipments of substitutions, defective or shop-worn equipment will be returned for a full refund at the vendor's expense.

QUANTITY: The quantities and/or materials listed in the specifications/bid sheets may be increased or decreased by the City of Torrington or its designated representative based on actual need at the time the purchase orders are placed.

QUALITY: The City of Torrington reserves the right to reject any proposal in whole or in part offering equipment and/or materials and/or services that in its or its agent's opinion does not meet the quality standards desired. Such decision is final and not subject to further recourse by the bidder.

SAMPLES: forwarded by the bidder will be returned to the bidder at his request and expense. Requests for return of samples must be submitted in writing at the time the sample is given to the City of Torrington or its representative. Samples not returned to the bidder will be disposed of at the discretion of the City of Torrington or its designated representative. Large pieces of equipment submitted for evaluation and inspection are to be picked up by the bidder within 30 days of the bid opening date. Items remaining after 30 days will be discarded.

Freightliner of Hartford, Inc.
Primary Bid

AWARD: It is the intent to award this bid in its entirety to one bidder, however, the City reserves the right to award the bid line item by line item if it is deemed in its best interest to do so. In addition, bidders are advised that should budgetary constraints dictate, part, and/or all the items in this bid may be rejected. This decision shall be considered final and not subject to recourse by the bidder.

In determining the lowest or highest responsible bidder, the City reserves the right to consider, in addition to price, the compatibility, quality, cost of maintenance and availability of parts, experience and/or past performance of the bidder, sufficiency of the financial resources of the bidder as relates to the offerings as well as the ability of the bidder to provide future maintenance and service.

Documents previously submitted to the city of Torrington will not be considered as satisfying submission requirements for this bid.

No bidder can claim any contract rights by virtue of bidding alone. Awarding of the contract means actual written notice by letter and a properly executed purchase order to the bidder or bidders to whom the bid has been awarded.

OPTION TO RENEW: This contract may be extended for four (4) additional one (1) year periods, provided all terms and conditions remain in full force and effect except for the contract period being extended. This option, if exercised, is to be executed in the form of a letter of agreement, to be issued no later than 60 days prior to the expiration of the then current contract period. This option to renew requires the mutual agreement of both parties. Refusal by either party to exercise this option to extend, will cause this contract to expire on the original or mutually agreed upon date. The total period of this contract, including all extensions as a result of exercising this option, will not exceed a maximum combined period of five (5) years.

BONDS:

Performance Bond: The Contractor, when awarded the Bid, must submit within 10 days of the bid award, and before beginning the work or signing a contract, a Performance Bond amounting to one hundred percent (100%) of the total amount of the bid. Said performance bond must be in favor of the City of Torrington and executed by a surety company authorized to do business in the State of Connecticut. The City of Torrington reserves the right to retain the Bid Bond or Certified Check on bids below \$25,000.00 as a Performance Bond. On bids of \$25,000.00 or more the Performance Bond may be furnished in the following manner: Performance Bond, Surety Bond, Certified Check or Bank Check.

Maintenance Bond: The contractor, upon signing a contract and before beginning the work must submit to the Purchasing Agent a Maintenance Bond to guarantee that if defects in either labor or materials becomes evident within one year after completion and acceptance of work will be fixed at no cost to the City of Torrington. The maintenance bond may be included as a portion of the Performance bond or as a separate bond. If it is issued as a separate bond said maintenance bond must be in favor of the City of Torrington and issued by a surety company licensed and authorized to do business in the State of Connecticut.

Labor and Material Bonds: Per Section 49-41 of the Conn. General Statutes, on Public Works project where the estimate is in excess of \$25,000.00, a labor (payment) and material bond must be furnished to the City. Said bonds must be filed with the Purchasing Agent prior to the commencement of work.

Consent for Release of Final Payment: AIA Document G707 & G706, or equivalent, must be signed and returned by the Surety Company before final payment will be released to the contractor.

INSURANCE:

Certificate of Insurance: All insurers shall purchase insurance from an insurance company or companies rated A-V11 or better by A.M. Best Companies lawfully authorized to do business in the State of Connecticut. The insurance provisions set forth below are minimum requirements. In the event the Contractor/City Contract (Project Requirements) specifies additional coverage's and/or amounts of coverage then those set forth below and pertaining to the Contractor's work, then the Contractor shall provide the coverage's and/or amounts in accordance with the Project Requirements. Proof of proper insurance coverage, Workers Compensation Insurance, Liability and Property damage, and Vehicle Insurance shall be filed with the City of Torrington Purchasing Agent within 10 days after the award of the bid. The Certificate of Insurance must name the City of Torrington, 140 Main St., Torrington, CT, its subsidiaries, employees, volunteers, directors & officers as the "Additional Insured" and filed with the Purchasing Agent prior to commencement of work. Renewal Certificates of Insurance must be mailed to the Purchasing Agent 10 days prior to the expiration of the required coverage. Such insurance will protect the Contractor from claims which may arise out of or result from the Contractor's operations under the Subcontract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Sub-Contractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Contractor, and any Sub-subcontractors engaged by the Contractor, shall obtain the following insurance:

Workers' Compensation Insurance: For all work performed pursuant to this contract, Contractor shall maintain Workers' Compensation Insurance, including coverage for all executive officers, sole proprietors and partners, and other similar employee benefits in the amount required by all applicable statutes, law, regulations or acts. Such Workers' Compensation Insurance must list on Item 3A of the policy Information Page "Part One of the policy applies to the Workers' Compensation

Law of the State of Connecticut and provide a Waiver of Subrogation endorsement (NCCI form WC 00 03 13 or its equivalent) that prohibits the insurance company from enforcing subrogation and recovery rights against the City, its subsidiaries, employees, volunteers, directors and officers. If work is to be performed over or adjacent to navigable waterways, the Workers' Compensation Insurance shall contain the United States Longshore and Harbor Workers' Act Endorsement (NCCI Form WC 00 01 06 or its equivalent). In case any class of employees or subcontractors is engaged in hazardous work under the contract at the site of the work is not protected under the Workman's Compensation statute, the contractor shall provide Workman's Compensation Insurance for the protection of employees not otherwise protected.

Liability Insurance: The Contractor shall take out and maintain for the life of the contract, adequate public liability insurance insuring against liability to persons not employed by him in an amount of not less than \$1,000,000.00 for injuries, wrongful death to any one person and subject to the limit for each person in an amount of not less than \$2,000,000.00 on account of one accident and property damage insurance in an amount of not less than \$1,000,000.00.

Vehicle Insurance: The Contractor shall take out and maintain for the life of the contract, adequate automotive/truck or other vehicle insurance with minimum coverage of \$1,000,000.00 each for both liability and under insured and uninsured motorist as well as any other coverage required by the State of Connecticut or requested by an official of the City of Torrington as relates to the contract.

Additional Security: The City of Torrington reserves the right to require successful bidders to enter into and such security arrangements as are deemed necessary to protect the City of Torrington, its property and goods.

PERMITS: The successful bidder agrees to obtain all work/building permits as might be required. The cost of obtaining such permits is the responsibility of the bidder. The City of Torrington reserves the right to waive local permit fees. In addition, it shall be understood that where property lines are to be considered, bidders are to verify said lines and measurements with proper City Officials prior to commencement of work.

It is to be understood that any/all specifications and/or plans or drawings contained in or developed as a result of the bid process are and shall be presented subject to the approval of the City of Torrington planning, zoning and building officials and that awards made prior to said approval are subject to cancellation.

PREVAILING WAGE: When the State of Connecticut Prevailing Wage Rate is applicable to the bid, the successful bidder must submit a Certified Payroll Record prior to any request and/or invoice for payment.

CITIZENSHIP: Each employee of the Contractor shall be a citizen of the United States or an alien who has been lawfully admitted for permanent residence as evidenced by an Alien Registration Receipt Card. The Contractor agrees not to employ any person undergoing sentence of imprisonment except as provided by Public Law 89-176, September 10, 1965, (18 USC 4082)(c)(2).

SAFETY:

Machine and/or Equipment Hazard Assessment and Safety Training: Upon delivery of machines and/or equipment, suppliers are required to provide to the end-user employees, at no additional charge, a training session that will emphasize hazard awareness and assessment and the safe use of such machinery/equipment.

Occupational Safety and Health Act of 1970: Seller shall warrant that the machinery, equipment or other materials covered hereby shall upon delivery to the City of Torrington, be in compliance with the standards required by said Act and any updates as pertain to or reference said Act as well as the standards required by comparable State and local laws, if any, for such machinery, equipment or other materials in effect at the time of delivery.

Machines and/or Equipment Lockout/Tagout: In an effort to comply with OSHA's final rule on the control of hazardous energy sources, vendors must warrant that any and all machines and/or equipment as is covered under this bid will be supplied and/or installed equipped with lockout/tagout devices as prescribed by OSHA.

Toxic Substance Control Act (PL94-469): Seller warrants that each and every chemical substance constituting or contained in the products sold or otherwise transferred to the City of Torrington under this bid and subsequent purchase orders is not on the list of prohibited chemical substances compiled and published by the Administrator of the Environmental Protection Agency pursuant to Act PL94-469 and are otherwise in compliance with said Act.

Hazardous Materials: Any materials required by this bid and subsequent purchase orders that are hazardous under federal, state, or local statute, ordinance, regulation, or agency order will be packaged, labeled, marked and shipped by the seller to comply with all federal, state and local regulations then in effect including but limited to the provisions of the Hazardous Materials Transportation Act and Regulations promulgated thereunder and will further comply with any special requirements and any policies and procedures of the City of Torrington relating to the purchase of hazardous materials as might be noted on subsequent purchase orders or otherwise communicated to seller in writing.

Material Safety Data Sheets: Shall be provided by the Seller upon delivery to the City of Torrington of any goods having constituents listed in the following references - OSHA 1910, ACHIG Current Threshold Values, DOT HazMat Table 49, IARC Carcinogen List, National Toxicology Program Carcinogen List, and/or Radioactive Materials. These Material Safety Data

Sheets must be consistent with and include information required by the OSHA Hazard Communication Standard published as 29 CFR 1910.1200, as the same may be amended or supplemented from time to time.

Asbestos: Bidders are advised that asbestos-containing material may be located in the boiler rooms, pipe tunnels, storage areas and various portions of City buildings. Before proceeding on any contractual work on City buildings or their interiors, it is mandatory that bidders familiarize themselves with the asbestos-containing material and that said material be considered as a health hazard and all precautionary measures according to the Ahera Rules & Regulations be observed. It is the bidder's responsibility to notify all employees and/or subcontractors of this notification.

SUB-CONTRACTORS: The successful bidder shall not employ any subcontractor to fulfill any of the duties herein specified without express, prior written approval of the City of Torrington or its designated agent.

EEO: The successful bidder shall provide any/all additionally required, affirmative action statements, fair employment plans and non-discrimination programs and statement as might be required by the City of Torrington. In connection with the execution of this bid, subsequent purchase orders and/or contracts, the seller shall not discriminate against any employee or applicant for employment because of age, race, religion, color, sex or national origin. Bidders must comply with all rules & regulations of the Department of Labor with regard to Equal Employment Opportunities as pertains to municipalities.

TERMINATION OF CONTRACT: Any contract entered into by the City and the successful bidder shall provide that the City may terminate the contract upon thirty (30) day notice to the bidder.

The City of Torrington reserves the right to award or reject any or all bids, or any portion thereof, to waive technicalities, to award the contract to a bidder other than the lowest bid and to award the bid and/or contracts to one or more bidders submitting essentially identical proposals and, that in the city's judgment, will best serve the public interest.

The terms and conditions of these "Instructions To Bidders" are made a part this bid.

Prepared for:
Bill Mayers
City of Torrington
107 Arthur Street
Torrington, CT 06790
Phone: 860-489-2352
Mobile: 860-307-5134
E-Mail:
bill_mayers@torringtonct.org

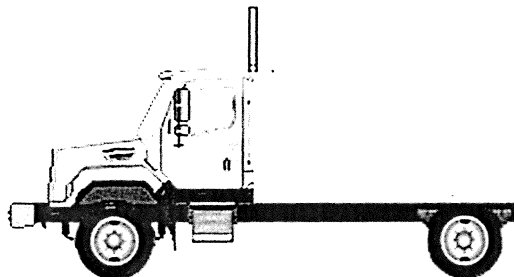
Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: GREG@FOHCT.COM

*A proposal for
City of Torrington*

*Prepared by
FREIGHTLINER OF HARTFORD
Greg Martinotti*

Dec 09, 2019

Freightliner 114SD



Components shown may not reflect all spec'd options and are not to scale

Prepared for:
Bill Mayers
City of Torrington
107 Arthur Street
Torrington, CT 06790
Phone: 860-489-2352
Mobile: 860-307-5134
E-Mail:
bill_mayers@torringtonct.org

Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: GREG@FOHCT.COM

SPECIFICATION PROPOSAL

Description	Weight Front	Weight Rear
Vehicle Configuration		
114SD CONVENTIONAL CHASSIS	7,934	6,476
2020 MODEL YEAR SPECIFIED		
SET BACK AXLE - TRUCK	480	-480
TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
LH PRIMARY STEERING LOCATION		
General Service		
TRUCK/TRAILER CONFIGURATION		
DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
UTILITY/REPAIR/MAINTENANCE SERVICE		
GOVERNMENT BUSINESS SEGMENT		
DIRT/SAND/ROCK COMMODITY		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
FREIGHTLINER LEVEL II WARRANTY		
EXPECTED FRONT AXLE(S) LOAD: 20000.0 lbs.		
EXPECTED REAR DRIVE AXLE(S) LOAD: 27120.0 lbs.		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 47120.0 lbs.		
EXPECTED GROSS COMBINATION WEIGHT: 70000.0 lbs.		
Truck Service		
FRONT PLOW/END DUMP BODY		
EXPECTED TRUCK BODY LENGTH: 12.0 ft		
EXPECTED TRUCK BODY WIDTH: 96.0 in		
Engine		
CUM L9 350 HP @ 2000 RPM, 2200 GOV RPM, 1150 LB/FT @ 1400 RPM	-850	-70
Electronic Parameters		
67 MPH ROAD SPEED LIMIT		

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
PTO MODE ENGINE RPM LIMIT - 2100 RPM		
PTO RPM WITH CRUISE SET SWITCH - 900 RPM		
PTO RPM WITH CRUISE RESUME SWITCH - 900 RPM		
PTO MODE CANCEL VEHICLE SPEED - 30 MPH		
PTO GOVERNOR RAMP RATE - 100 RPM PER SECOND		
FUEL DOSING OF AFTERTREATMENT ENABLED IN PTO MODE-CLEANS HYDROCARBONS AT HIGH TEMPERATURES ONLY		
PTO MINIMUM RPM - 700		
REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
Engine Equipment		
2016-2019 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
STANDARD OIL PAN		
ENGINE MOUNTED OIL CHECK AND FILL		
SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH Safety ELEMENT AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10	
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
(3) DTNA GENUINE, FLOODED STARTING, MIN 2850CCA, 525RC, THREADED STUD BATTERIES		
BATTERY BOX FRAME MOUNTED		
STANDARD BATTERY JUMPERS		
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
NON-POLISHED BATTERY BOX COVER		
CAB AUXILIARY POWER CABLE	5	
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL Safety VALVE		
ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM		

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH, ACTIVATES STOP LAMPS	80	
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
6 GALLON DIESEL EXHAUST FLUID TANK	-35	-10
100 PERCENT DIESEL EXHAUST FLUID FILL		
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
STANDARD DIESEL EXHAUST FLUID TANK CAP		
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD		
HORTON 2-SPEED DRIVEMASTER ADVANTAGE POLAREXTREME FAN DRIVE		
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON-ENGINE MOUNTED		
CUMMINS SPIN ON FUEL FILTER		
COMBINATION FULL FLOW/BYPASS OIL FILTER		
FLEETGUARD PLAIN COOLANT FILTER		
1300 SQUARE INCH ALUMINUM RADIATOR	-20	
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
RADIATOR DRAIN VALVE		
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
ELECTRIC GRID AIR INTAKE WARMER		

Prepared for:
Bill Mayers
City of Torrington
107 Arthur Street
Torrington, CT 06790
Phone: 860-489-2352
Mobile: 860-307-5134
E-Mail:
bill_mayers@torringtonct.org

Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
DELCO 12V 39MT HD/OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH	-35	
Transmission		
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION		
Transmission Equipment		
ALLISON VOCATIONAL PACKAGE 146 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS		
ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 3, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
S1 PERFORMANCE SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
2100 RPM PRIMARY MODE SHIFT SPEED		
2100 RPM SECONDARY MODE SHIFT SPEED		
FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
MAXIMUM ENGINE SPEED FOR PTO ENGAGEMENT 1400 RPM		
MAXIMUM ENGINE SPEED FOR PTO OPERATION 3000 RPM		
MAXIMUM OUTPUT SPEED FOR PTO ENGAGEMENT 3000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
MAXIMUM OUTPUT SPEED FOR PTO OPERATION 4000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT FIREWALL		
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
CUSTOMER INSTALLED CHELSEA 280 SERIES PTO		
PTO MOUNTING, RH SIDE OF MAIN TRANSMISSION		
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
T-HANDLE SHIFT CONTROLLER MOUNTED IN PEDASTAL NEXT TO DRIVER SEAT		
TRANSMISSION PROGNOSTICS - ENABLED 2013		
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15	
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		
Front Axle and Equipment		
DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	190	
MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
NON-ASBESTOS FRONT BRAKE LINING		
CONMET CAST IRON FRONT BRAKE DRUMS		
FRONT BRAKE DUST SHIELDS	5	
FRONT OIL SEALS		
SKF SCOTSEAL TF VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
STANDARD SPINDLE NUTS FOR ALL AXLES		
HALDEX AUTOMATIC FRONT SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS		
STANDARD KING PIN BUSHINGS		
TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
POWER STEERING PUMP		
4 QUART POWER STEERING RESERVOIR		
OIL/AIR POWER STEERING COOLER		
SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension		
20,000# TAPERLEAF FRONT SUSPENSION	200	

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS		
Rear Axle and Equipment		
RS-30-185 30,000# U-SERIES SINGLE REAR AXLE		-2,070
6.14 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	5	5
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE		
BLINKING LAMP WITH EACH MODE SWITCH, DIF FERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <25 MPH		
MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES		20
NON-ASBESTOS REAR BRAKE LINING		
BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
WEBB CAST IRON REAR BRAKE DRUMS		100
REAR BRAKE DUST SHIELDS		5
REAR OIL SEALS		
MGM TR-T LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		-20
HALDEX AUTOMATIC REAR SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS		
SYNTHETIC 75W-90 REAR AXLE LUBE		
ARVINMERITOR METAL/COMPOSITE FITTING AND U-TUBE REAR AXLE BREATHER(S)		
Rear Suspension		
CHALMERS 1030 30,000# REAR SUSPENSION		180
CHALMERS 1030 SERIES - 9.37-inch RIDE HEIGHT		
FORE/AFT CONTROL RODS		
REAR SHOCK ABSORBERS - ONE AXLE		
Brake System		
WABCO 4S/4M ABS WITH TRACTION CONTROL		

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
FIBER BRAID PARKING BRAKE HOSE		
STANDARD BRAKE SYSTEM VALVES		
STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
STD U.S. FRONT BRAKE VALVE		
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
WABCO OIL COALESCING FILTER FOR AIR DRYER		
AIR DRYER MOUNTED INBOARD ON LH RAIL		
ALUMINUM AIR BRAKE RESERVOIRS	-15	-15
PULL CABLES ON ALL AIR RESERVOIR(S)		

Trailer Connections

AIR CONNECTIONS TO END OF FRAME WITH
 GLAD HANDS FOR TRUCK AND DUST COVERS
 PRIMARY CONNECTOR/RECEPTACLE WIRED
 FOR COMBINATION STOP/TURN, CENTER PIN
 POWERED THROUGH IGNITION WITH STOP
 SIGNAL PREWIRE PACKAGE
 SAE J560 7-WAY PRIMARY TRAILER CABLE
 RECEPTACLE MOUNTED END OF FRAME
 UPGRADED CHASSIS MULTIPLEXING UNIT

Wheelbase & Frame

4275MM (168 INCH) WHEELBASE		
7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.1MMX282.6MM/0.437X11.13 INCH) 120KSI	80	190
PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION	180	
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW		
1900MM (75 INCH) REAR FRAME OVERHANG		
FRAME OVERHANG RANGE: 71 INCH TO 80 INCH	-20	100
24 INCH INTEGRAL FRONT FRAME EXTENSION	140	-20
CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 102.76 in		

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

	Description	Weight Front	Weight Rear
	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA): 99.76 in		
	CALC'D FRAME LENGTH - OVERALL: 312.71		
	CALCULATED FRAME SPACE LH SIDE: 60.43 in		
	CALCULATED FRAME SPACE RH SIDE: 173.35 in		
	CALC'D SPACE AVAILABLE FOR DECKPLATE: 102.45 in		
	SQUARE END OF FRAME		
	FRONT CLOSING CROSSMEMBER		
	STANDARD WEIGHT ENGINE CROSSMEMBER		
	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
	STANDARD REARMOST CROSSMEMBER		
	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
	14 INCH PAINTED STEEL BUMPER	20	
	FRONT TOW HOOKS - FRAME MOUNTED	15	
	REAR TOW HOOKS		
	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fuel Tanks			
	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	-10	
	RECTANGULAR FUEL TANK(S)		
	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
	FUEL TANK(S) FORWARD		
	PLAIN STEP FINISH		
	FUEL TANK CAP(S)		
	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER"	10	
	EQUIFLO INBOARD FUEL SYSTEM		
	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
	CONTINENTAL HAU 3 WT 315/80R22.5 20 PLY RADIAL FRONT TIRES	100	

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

	Description	Weight Front	Weight Rear
	MICHELIN XDS 12R22.5 16 PLY RADIAL REAR TIRES		156
Hubs			
	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
	WEBB IRON REAR HUBS		280
Wheels			
	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66	
	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		52
	FRONT TIRE/DISC WHEEL STATIC BALANCING WITH LEAD-FREE WEIGHTS		
Cab Exterior			
	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
	AIR CAB MOUNTING		
	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
	SHORT FENDER WITH MUDFLAP		
	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
	LH AND RH GRAB HANDLES		
	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL		
	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS		
	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
	FIBERGLASS HOOD		
	HOOD LINER, ADDED FIREWALL AND FLOOR HEAT INSULATION	5	
	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK		
	DUAL ELECTRIC HORNS		
	SINGLE HORN SHIELD		
	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
	REAR LICENSE PLATE MOUNT END OF FRAME		
	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS		
	LED AERODYNAMIC MARKER LIGHTS		

Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: GREG@FOHCT.COM

Cab Interior

LZ4809 - L9 SBA PT 20K FRONT



12/09/2019 12:26 PM

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20	
(2) CUP HOLDERS LH AND RH DASH		
GRAY/CHARCOAL WING DASH		
SMART SWITCH EXPANSION MODULE		
2-1/2 LB. FIRE EXTINGUISHER	5	
HEATER, DEFROSTER AND AIR CONDITIONER		
STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
STANDARD HEATER PLUMBING		
VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
BINARY CONTROL, R-134A		
PREMIUM INSULATION		
SOLID-STATE CIRCUIT PROTECTION AND FUSES		
12V NEGATIVE GROUND ELECTRICAL SYSTEM		
DOMED DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF		
LH AND RH ELECTRIC DOOR LOCKS		
(1) 12 VOLT POWER SUPPLY IN DASH		
TRIANGULAR REFLECTORS WITHOUT FLARES	10	
PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	70	
BASIC HIGH BACK NON-SUSPENSION TOOL BOX PASSENGER SEAT		
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS	4	
LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
HIGH VISIBILITY ORANGE SEAT BELTS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
4-SPOKE 18 INCH (450MM) STEERING WHEEL		

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instruments & Controls		
GRAY DRIVER INSTRUMENT PANEL		
GRAY CENTER INSTRUMENT PANEL		
BLACK GAUGE BEZELS		
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS		
PRECO/ECCO MODEL 360, CONSTANT 107 DECIBELS BACKUP ALARM		3
ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)		
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
2 INCH ELECTRIC FUEL GAUGE		
PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	5	
ELECTRIC ENGINE OIL PRESSURE GAUGE		
OVERHEAD INSTRUMENT PANEL		
SMARTPLEX HUB MODULE WITH OVERHEAD SWITCH MOUNTING, DRIVER SIDE AND CENTER CONSOLE (12 SWITCH SLOTS)	44	
KENWOOD AFTERMARKET AM/FM BLUETOOTH RADIO SYSTEM	5	
DASH MOUNTED RADIO		

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
(4) RADIO SPEAKERS IN CAB		
AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
POWER AND GROUND WIRING PROVISION OVERHEAD		
ROOF/OVERHEAD CONSOLE CB RADIO PROVISION		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL SIGNAL FOR CUSTOMER USE LOCATED BETWEEN DRIVER AND PASSENGER SEATS		
ELECTRONIC 3000 RPM TACHOMETER		
NO VEHICLE PERFORMANCE MONITOR	-5	
IGNITION SWITCH CONTROLLED ENGINE STOP		
PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH		
5 ON/OFF LATCHING SMARTPLEX SWITCHES		
1-RED, 0-AMBER, 0-GREEN SMARTPLEX INDICATOR LAMPS		
BW TRACTOR PROTECTION VALVE		
TRAILER HAND CONTROL BRAKE VALVE		
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY PROGRAMMED TO SLOWEST SPEED WITH PARK BRAKE SET WITH WINTER BLADES		
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND SINGLE CONNECTOR AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS, LOW BEAMS OFF WITH HIGH BEAMS		
TWO VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR		
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Color

LZ4809 - L9 SBA PT 20K FRONT



12/09/2019 12:26 PM

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Description	Weight Front	Weight Rear
CAB COLOR A: L0006EY WHITE ELITE EY		
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
STANDARD BLACK BUMPER PAINT		
SUNVISOR PAINTED SAME AS CAB COLOR A		
STANDARD E COAT/UNDERCOATING		

Certification / Compliance

U.S. FMVSS CERTIFICATION
 HEAVY DUTY REMOVABLE SLUSH CATCHING FLOOR MATS

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	8913 lbs.	4937 lbs.	13850 lbs.
Total Weight ⁺	8913 lbs.	4937 lbs.	13850 lbs.

Extended Warranty

CUM 2017 L9: HD1 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM
 EXTENDED WARRANTY. FEX APPLIES
 CUM 2017 L9: AT3 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM
 AFTERTREATMENT. FEX APPLIES

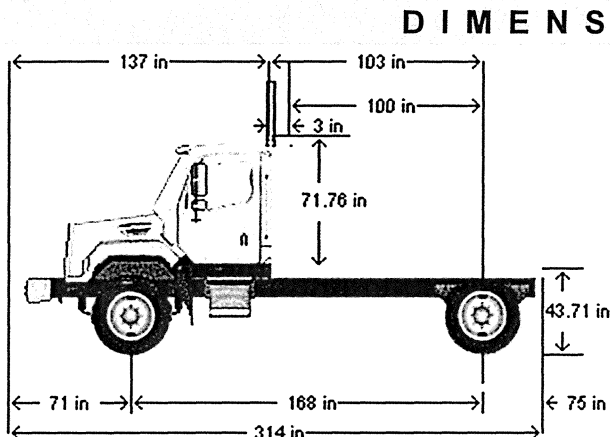
(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model..... 114SD
 Wheelbase (545) 4275MM (168 INCH) WHEELBASE
 Rear Frame Overhang (552) 1900MM (75 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
 Cab Size (829) 114 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

TABLE SUMMARY - DIMENSIONS

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Dimensions	Inches
Bumper to Back of Cab (BBC)	136.8
Bumper to Centerline of Front Axle (BA)	71.3
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	102.8
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	99.8
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
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	177.6
Cab Height (CH)	71.8
Wheelbase (WB)	168.3
Frame Overhang (OH)	74.8
Overall Length (OAL)	314.4
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	43.7

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

Prepared for:
Bill Mayers
City of Torrington
107 Arthur Street
Torrington, CT 06790
Phone: 860-489-2352
Mobile: 860-307-5134
E-Mail:
bill_mayers@torringtonct.org

Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: GREG@FOHCT.COM

GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs.).....	20000.0
Expected Pusher Axle(s) Load (lbs.).....	0.0
Expected Rear Axle(s) Load (lbs.).....	27120.0
Expected Tag Axle(s) Load (lbs.).....	0.0
Expected GVW (lbs.).....	47120
Expected GCW (lbs.).....	70000.0
Front Axle (400).....	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620).....	20,000# TAPERLEAF FRONT SUSPENSION
Front Hubs (418).....	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502).....	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093).....	CONTINENTAL HAU 3 WT 315/80R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402).....	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536).....	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Rear Axle (420).....	RS-30-185 30,000# U-SERIES SINGLE REAR AXLE
Rear Suspension (622).....	CHALMERS 1030 30,000# REAR SUSPENSION
Rear Hubs (450).....	WEBB 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 XDS 12R22.5 16 PLY RADIAL REAR TIRES
Rear Brakes (423).....	MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST 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

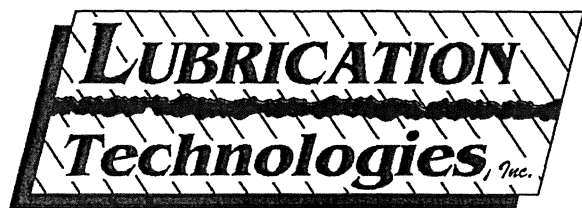
TABLE SUMMARY - GVWR

Prepared for:
 Bill Mayers
 City of Torrington
 107 Arthur Street
 Torrington, CT 06790
 Phone: 860-489-2352
 Mobile: 860-307-5134
 E-Mail:
 bill_mayers@torringtonct.org

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

	Front	Rear
Axle Component Weight Ratings		
Axles	20000	30000
Suspension	20000	30000
Hubs	23000	30000
Brakes	21500	31000
Wheels	20000	32000
Tires	20000	27120
Power Steering	22000	N/A
GAWR (per axle)	20000	27120
GAWR (per axle system)	20000	27120
Expected Load (per axle system)	20000	27120
Vehicle GVWR Summary		
Calculated GVWR	47120	
Expected GVWR	47120	
All weights displayed in pounds		

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



SEPARATING SURFACES SINCE '76

120 Bosworth Street, West Springfield, MA 01089-3850

(413) 788-LUBE • Fax (413) 788-5743

December 9, 2019

Quote # 12530

Greg Martinotti
Freightliner of Hartford, Inc.
199 Roberts Street
East Hartford, CT 06108

Re: Freightliner Hook Lift Truck / Lubetech Automatic Lubrication System

Dear Greg,

The following is a detailed description of the automatic lubrication system we would install on the Freightliner Hook Lift Truck

Component Listing

- 1.) **12VDC 4Kg Max Electric Pump** -w/Integrated Solid-State Controller Low Level switch,
- 2.) **(1) Fixed output Positive Displacement Pumping Element.** The element serves (1) series progressive divider valve that meters lubricant to (21) lubrication points on the truck and hook lift—The pumping element is capable of pumping an NLGI # 2 grade lubricant at temperatures down to -13 °C with 4,000 psi maximum pressure complete w/4,000 PSI integrated pressure relief valves.
- 3.) **(1) 0-6,000 PSI Pressure Gauge** to monitor system operation.
- 4.) **(1) Series-progressive** divider valve assembly pre-assembled and tested. Each valve is equipped with an in-line zerk fitting for easy system diagnostics.
- 5.) **8 mm OD high pressure tubing** runs from pumping elements to divider blocks, burst pressure rating of 12,000 psi-tubing utilizes reusable ends which are easily made up on site.
- 6.) **Compression style Fittings** used on all tubing connections.

7.) System designed to provide accurate delivery of lubricant to (21) pre-determined lubrication points on the Freightliner truck and Hook lift. System installed in a professional manner.

8.) Complete with schematic of system and detailed parts lists.

System installation in West Springfield, MA: \$3,715.00*

***This quote is presented for installation of an automatic lubrication system serving (21) lubrication points. Any lubrication points that are added to the system will be an additional \$100.00 per point.**

Options:

- A) In cab controller-takes electronics out of elements and provides operator view of pump status add \$250
- B) Proximity switch monitoring-confirms flow of lubricant and provides fault alarm add \$150
- C) Grease Transfer Pump- Heavy duty manual pail pump facilitates refilling of lubrication system reservoir in the field- 6 ' hose and cam lock coupler. add \$325
- D) 35 # Pail of Lubrication Engineers # 3751 Almagard Vari-Purpose Lubricant This product is in the lubricator and its continued use is highly recommended. add \$277.55

Our system installation workmanship is warranted for a period of one year from the installation date. System components are warranted against manufacturing defects for a period of two years.

All components are in stock at our facility in West Springfield, Massachusetts. Please consider scheduling your installation as soon as possible so we may tend to your needs in a timely manner.

Quotations are valid for 30 Days.

We appreciate the opportunity to provide this information. Please call me if I may be of further service.

Regards,

Jamie Piangerelli MLT1



Quality Installation is our Priority

40 Airport Road
Phone: 860-296-7000

Hartford, CT 06110
Fax: 860-296-0373

Greg Martinotti
Freightliner of Hartford
222 Roberts Street
East Hartford CT.06108

December 9, 2019

Hooklift Plow Truck

We are pleased to quote the following: City Of Torrington

New Hook Lift/Front Plow Equipment Package fully installed & operational upon a new cab & chassis with Minimum 36,000 GVW, 102" CA, Front Frame Extensions and Allison 3000 Series or Higher Transmission

Chassis MUST HAVE Clear Right-Side Frame Rail Behind Cab (as much as Possible) for Valve and Tank Mounting. Relocating of Components Interfering in Installation will be Billed at Shop Rate of \$107 per Hour.

Equipment Package to include the following:

➤ Swap Loader SL-2418HD Hook Lift System with Lift Capacity Upgrade

24,000 pounds dumping capacity and 24,000 pounds lifting capacity with the gross weight evenly distributed on the body.

Hook lift shall be able to handle sub frame mounted bodies with lengths of 10' - 13' with the optimum body length being 10' - 12'.

Hook lift hoist (fixed jib 53-7/8" hook height) not to exceed 3,040 pounds.

The hook to rear roller dimension to be 118" in length.

- Monroe Front Plow Hitch with 4" X 10" DA Cylinder and Multiple Push Points Including 30.5 3/4" Side Plates
- Gantry Style Hydraulic Tarp System
 - 40 Gallon Side Mount Hydraulic Reservoir with Sight/Temp gauge
 - Hydraulic Filter with indicator
 - Low Oil Alert Light and Alarm with low Oil Shutdown and Override Switch
 - 2" Ball Valve shut-offs
 - Suction Line Strainer
 - Load Sense Hydraulic Pump
 - Transmission Mounted Hot Shift PTO
- Eight (8) Bank Load Sense Valve System to Operate Hook Lift, Plow, Tarp and Sander
- Eight (8) Air Controls for Hook Lift, Front Plow and Tarp Functions, Mounted on Custom Reinforced Tower
- Stainless Steel Valve Enclosure
- Stainless Steel Piping throughout utilizing Short Lengths of Hose & Swivel Fittings
- Hydraulic Hoses Run to Rear for Sander Operation
- Cirrus SpreadSmart Spreader Control with Data Management
- Road Watch Non-Contact Temperature System

- Wheel Chock Holder with Chocks
- Front and Rear Mud Flaps Mounted on Stainless Steel Brackets
- Poly Fenders over Rear Tires
- Two (2) Front Tow Hooks
- Two (2) Rear Tow Hooks
- Custom Rear Bumper with 25 Ton Pintle Hitch, D-Rings, 7 Prong Trailer Plug, Gladhands for Chassis Supplied Air
- Premium Electrical System consisting of the following: Sealed Lighting System, complete independent electrical circuitry utilizing a constant duty solenoid, buss bar, & circuit breakers mounted inside cab
- Heated LED Plow Lights mounted on Stainless Steel Brackets utilizing Chassis Plow Light Circuitry
- LED Front Strobes Mounted on Plow Light Brackets
- LED Rear Strobes, S/T/T and Reverse Lights Mounted in Custom Rear Bumper
- Electric Trailer Brake Control
- Back Up Alarm
- Two (2) Rear LED Work Lights with in Cab Switch
- Fully Installed & Operational

FOB Hartford CT.....\$ 77,793.41

SH Truck Bodies Flat Bed 12'.....\$ 5,984.98 per body
 102" WIDE x 12' 6" Platform/Stake Body, Super Duty
 7 ga. smooth steel floor, Raptor Non-Slip Bed Liner, Applied on Platform Floor
 Includes 48" bulkhead w/ screen window,
 Swaploader Hooklift A Frame Kit for Model SL-2418
 54" hook height
 Includes 6" x 2" x 1/4" Tubing A Frame & Understructure,
 1/4" x 2" x 2" triangle long sill gussets on INSIDE of long sill,
 2- 8" rear pipe rollers
 41 1/2" Outside Long Sill Width Spacing

Optional Stake Racks for SH Body.....\$1,195.00 per body

12' 12 Yard Container.....\$ 4,409.30 per body

Mount Customer Supplied Sander on Hooklift A Frame.....\$ 5,594.00 per Sander
 Remove Existing Mounts and Tailgate Lock Bar
 Fabricate New Mounting legs
 Fabricate Belly Pan for Under Sander
 Fabricate New Rear Roller Sections to Complete Installation

Quote Valid: 30 Days

Delivery: 90-110 Days AROC and All Equipment

Respectfully Submitted

Jim Uccello
Jim Uccello
 Sales Consultant

ACCEPTANCE OF PROPOSAL: The above prices, specifications, and conditions are satisfactory and are hereby accepted.

SIGNED: _____ DATE: _____



Quality Installation is our Priority

*40 Airport Road
Phone: 860-296-7000*

*Hartford, CT 06110
Fax: 860-296-0373*

December 9, 2019

References

Town of Rocky Hill
Joseph Lentini
Highway Supervisor
860-550-0444

New Truck Build

Town of Barkhamsted
Rich Novak
Highway Supervisor
860-379-1888

New Truck Build

Town of Colebrook
Bill Jasmin
Highway Forman
860-379-8306

New Truck Build

Town of New Canaan
Mose Saccary
Highway Superintendent
203-594-3704

New Truck Build

Town of Lebanon
Jay Tuttle
Highway Forman
860-642-7565

New Truck Build

Town of East Lyme
Kevin O'Day
Fleet Manager
860-739-0130

New Truck Build

**CITY OF TORRINGTON
J-HOOK TRUCK WITH ATTACHMENTS
SPECIFICATIONS
JHT-031-121219**

The City of Torrington is requests bids for the purchase and delivery of one (1) new 4X2 (GVWR 47,000) Hook Lift Unit with body package to be used by the Public Works Department Street Division. The truck and attachments shall be delivered to 107 Arthur Street, Torrington CT 06790 during scheduled working hours. The J-Hook truck must meet the minimum specifications provided with this bid package. **Vendor must include manufacturer and specifications of the J-Hook truck with attachments to be supplied.** Any deviation from the specifications must be clearly cited in detail, in writing, by the bidder and submitted with the bid. In addition, NO deviations below "minimum" specifications as written will be accepted.

SPECIFICATIONS:

- **AXLE CONFIG:** 4X2
- **APPLICATION:** Hook Lift Unit
- **GVWR:** 47,000, LBs
- **DIMENSION:** Wheelbase: 168" (or what is needed for application)
- **ENGINE, DIESEL:** {Cummins L9 370} compression brake for the L9
- **TRANSMISSION, AUTOMATIC:** {Allison 3500 RDS with PTO Provision, Shift controls "T" handle type}
- ES- Yes ➤ **Cirus SpreadSmart Spreader Control with Data Management**
- ES- Yes ➤ **Road Watch Non-Contact Temperature System**
- **AXLE, FRONT NON-DRIVING:** Taper leaf front Suspension, 20,000-lb Capacity:
- **AXLE, REAR, SINGLE:** Chalmers Suspension 30,000 lb. capacity
- **CAB:** Conventional, Flat roof Aluminum with Heated windshield single piece
- **TIRE, FRONT:** Two (2) 315/80R22.5 Load Range L G289 WHA
- **TIRE, REAR:** Four (4) 12R22.5 Load Range H G622 RSD
- **PAINT:** White
- **RADIO:** AM/FM radio
- **COMMUNICATION SYSTEM:** Marcus Communication will install new 2-way digital Communication system

Hook configuration:

- ES- Yes
- TOW HOOK, FRONT (2) Frame Mounted, TOW HOOK, REAR (2)

ES- Yes **Trailer Connections:**

- Air connections to end of frame with glad hands for truck and dust covers
- Primary connector/receptacle wired for combination stop/turn, center pin powered through ignition with stop signal prewire package
- 7-way primary trailer cable receptacle mounted at end of frame
- Rear bumper with 25-ton pintle hitch, D-rings, 7 prong trailer plug

Brake System: ABS

- Reinforced nylon, fabric braid and wire braid chassis air lines.
- Fiber braid parking brake hose
- Standard brake system valves
- Standard air system pressure protection system
- Relay valve with 5-8 psi crack pressure.

- BW AD-9SI brake line with air dryer heater
- Steel air brake reservoirs
- Dust shields, front and rear brakes

Fuel tank:

- 50-gallon short rectangular aluminum fuel tank with painted bands
- High temperature reinforced nylon fuel lines.
- Water in fuel sensor

ES-40 Led Lighting:

- 360-degree strobe light capability (lighting location T.B.D.)
- (2) rear facing led working lights

Cab Interior:

- Heavy duty onboard diagnostics interface connector located below dash left side
- Smart plex hub module with overhead switch mounting, drivers' side and center console (12 switch slots)
- Gray vinyl interior
- High visibility orange seat belts
- Black mats with single insulation
- Center storage console
- (2) radio speakers in cab
- (2) cup holders left and right-hand dash
- 2 ½ lb. fire extinguisher
- Heater, defroster and air conditioner
- Windshield heated, single piece
- Standard HVAC ducting with snow shield for fresh air intake
- Wiper blades snow type
- Solid-state circuit protection and fuses
- Dome door activated left and right, dual reading lights forward cab roof
- 12-volt power supply in dash
- Power windows left and right doors with express down failure
- High back air suspension driver seat with 3 air chamber air lumbar, intergraded cushion extension, forward and rear cushion tilt, adjustable shock absorber
- high back non-suspension passenger seat
- Adjustable tilt and telescoping steering column
- Driver and passenger interior sun visors
- ES-40 • Electric trailer brake control

Cab Exterior:

- Air cab mounting
- Bug screen mounted behind the grill
- Short fender with mud flap
- Left hand and right-hand grab handles
- Bright finish radiator shell/hood bezel
- Stationary grill

- Single 14-inch air horn
- Led aerodynamic marker lights
- Door mounted mirrors heated

Lubrication System:

- Automatic Lubrication System installed by Lubrication Technologies (large capacity grease reservoir required)

Load cover:

- ES- Yes • The cover should be hydraulically controlled Gantry style tarp system

ES- Yes Plow hitch:

- The Plow Hitch will be a low-profile tilt over type with 5/8" check plates braced back on the frame rails as far as possible, 4"x10" double acting lift cylinder, drive ears on 30 1/2" centers hood mounted aluminum brackets
- Hydraulic hoses run to the rear for sander operation
- Heated led plow lights
- 13" from ground to bottom of hitch plate

ES- Yes Bodies:

- **Swap Loader SL-2418HD Hook lift system:**
- 24,000 lbs. dumping capacity and 24,000 lbs. lifting capacity with the gross weight evenly distributed on the body.
- Needs to be able to handle sub frame mounted bodies with lengths of 10' -13' with the optimum body length being 10'-12'

ES- Yes Two (2) EA. SH Truck Bodies Flatbed 12':

- 102' wide x 12'6" Platform/Stake Body, Super Duty
- 7-gauge smooth steel floor with raptor non-slip bed liner applied on platform floor
- 48" bulkhead liner with screen window
- Swaploader Hook lift A-frame kit for Model SL-2418
- 54" hook height
- 6"x2"x1/4" tubing A-Frame and Understructure
- (2) 8" rear pipe rollers
- 41-1/2" Outside long sill width spacing

ES- Yes 12' 12-Yard Container:

- Steel construction
- Swing type tail gate with heavy duty hinges and locking mechanism

ES- Yes A-Frame

- **Mount customer supplied sander on hook lift A-frame**
- Remove existing mounts and tail gate lock
- Fabricate new mounting legs
- Fabricate belly pan for under sander
- Fabricate new rear roller sections to complete installation

MANUALS:

- An original manufacture's brochure of proposed product is to be submitted with proposal.
- Complete operators, parts and service manuals to be included. **Manuals to be delivered with the equipment for contract to be considered fulfilled.**
- Training on the unit to be included. Upon delivery of the equipment, the contractor shall coordinate a training schedule with the using agency's personnel.
- Delivery time of the equipment shall be as specified in the offer form, and responsibility for the equipment remains with the contractor until satisfactory completion of acceptance tests and formal written acceptance by the City of Torrington.
- **ALL TITLES OR CERTIFICATES OF ORIGIN AT TIME OF DELIVERY.**

**AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER
MBE'S WBE'S AND SBE'S ARE ENCOURAGED TO APPLY**

The bidder hereby acknowledges receipt of and agrees this submittal is based on the BID and the following addenda. Failure to indicate receipt of addenda may result in the bidder being rejected as nonresponsive.

ADDENDUM # _____ DATED _____ ADDENDUM _____ DATED _____

ADDENDUM # _____ DATED _____ ADDENDUM _____ DATED _____

ADDENDUM # _____ DATED _____ ADDENDUM _____ DATED _____

(If additional addenda are issued, attach a complete listing of these addenda when submitting this bid.)

The City of Torrington reserves the right to award or reject any or all bids, or any portion thereof, to waive technicalities, to award the contract to a bidder other than the lowest bid and to award the bid and/or contracts to one or more bidders submitting essentially identical proposals and that, in the city's judgment, will best serve the public interest.

**APPENDIX A - PRICE SHEET
CITY OF TORRINGTON
J-HOOK TRUCK WITH ATTACHMENTS
JHT-031-121219**

BID OPENING DATE: DECEMBER 12, 2019 11:00 AM

Total bid Price dollars and cents: _____

Total Base bid price in words: _____

BODIES (OPTION COST)

(1) Swap Loader SL-2418HD Hook Lift System \$ 77,793.41

(2 ea.) SH Truck Bodies Flatbed 12' \$ 5984.98⁰⁰ each optional Lock Kit \$ 1195.00 each

(1) 12' 12-yard Container \$ 4409.30 each

(1) A-Frame & customer supplied sander installation \$ 5594.00

ETA Delivery 90-120 Days Receipt of Chassis And ALL Equipment

Company name: Bigson II LLC DBA Equipment Service Date: 12/5/19

Address: 40 AIRPORT ROAD, HARTFORD CT. 06114

Company Representative (signature) James Vicello

Title: Sales Consultant

Federal Tax Identification Number: (FEIN) 06-1540242



CITY OF TORRINGTON
Addendum # 1

**ADDENDUM #1 ISSUED FOR SUBMITTED QUESTIONS/ANSWERS FOR J-HOOK TRUCK
WITH ATTACHMENTS**

BID #JHT-031-121219 J-HOOK TRUCK WITH ATTACHMENTS

Bid opening: December 12, 2019 Time: 11:00 A.M Location: City Hall, Room 206, 140 Main St., Torrington, CT

Must Submit signed addenda with bid.

The City of Torrington reserves the right to accept or reject any or all bids or any portion thereof, to waive technicalities, and to award the contract as will best serve the public interest.

Dated in Torrington: December 2, 2019 Purchasing Agent _____

Contact name Jim Uccello Phone: Pennie Zucco
860-296-7000

Authorized Representative Jim Uccello

Authorized Signature James Uccello

Company name Bigson II LLC, DBA Equipment Service email Jim@EquipmentService.NET

Address 40 Airport Rd, Hartford CT 06114

QUESTIONS AND ANSWERS 12/2/19

Q1) Is a Steel Constructed cab with a 10-year warranty acceptable or aluminum only?

A1) The specifications provided are baseline for what the City is looking for. Steel cab construction with a ten year warranty is acceptable as long as the warranty is accompanied with the bid so that the limitations will be available for review.

Q2) Is the Chalmers suspension the only acceptable one? We are aware of several rear end housing failures with Chalmers suspension that were long term because it requires a special housing?

A2) The specifications provided are baseline for what the City is looking for. You can present your truck as you see fit, vendor must supply back up information to defend choice of suspension

Q3) Is the Swaploader the only hook manufacturer acceptable? We have provided Stellar for Clinton, Thomaston and Wilton, New Milford for years. They accept the same containers and accessories on skids that work on both mfg. hook units.

A3) If you have a hook manufacturer that meets or exceeds what is mentioned in the specifications, the City will give them consideration.

Q4) The "T" handle shifter has been obsoleted by the mfg. can we submit an alternate type?

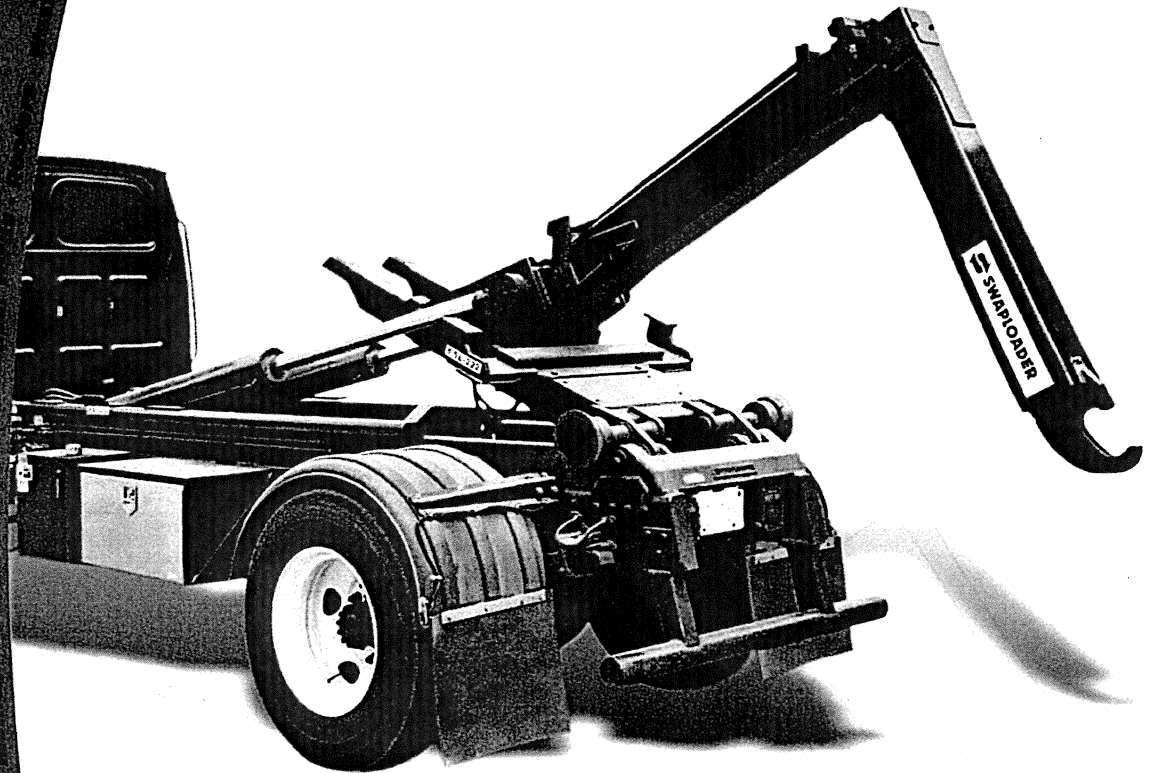
A4) The City of Torrington requests the T handle for plowing

Q5) I had a question regarding the transmission and engine combination. According to Allison, it does not appear you can use a Cummins L9 with 370 HP with an Allison 3500 RDS transmission. Is there another combination the town would prefer?

A5) The combination should be Cummins L9 350 HP with Allison 3000 RDS automatic transmission with PTO provision

200 SERIES

22,000 - 24,000 LBS. LIFT CAPACITY

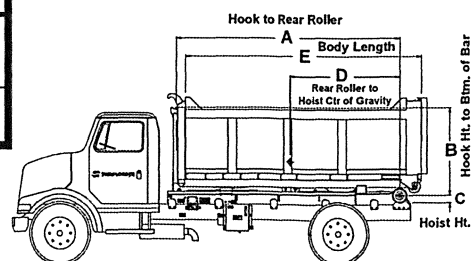


- **4 year warranty**
- **Sliding jib**
- **Slide through body locks**
- **Large beveled rear rollers**
- **Dual pivot rear section**
- **Dual lift cylinders**
- **Nylatron slide pads**
- **Low pressure hydraulics**
- **Integral dual counter balance valves**
- **Designed and built in the USA**

200 SERIES

	MODEL	SL-220	SL-222	SL-240	SL-2418	
MODEL DESCRIPTION	DUMP CAPACITY (INCLUDING CONTAINER)	22,000 lb	22,000 lb	24,000 lb	24,000 lb	
	DUMP ANGLE	53°	53°	53°	57°	
	LIFT CAPACITY (INCLUDING CONTAINER)	22,000 lb	22,000 lb	24,000 lb	18,000 lb	
	HOIST WEIGHT	FIXED	4,100 lb	4,050 lb	3,900 lb	3,040 lb
ADJ.		4,330 lb	4,280 lb	4,200 lb	N/A	
GENERAL DIMENSIONS (SEE DIAGRAM)	HOOK TO REAR ROLLER (DIM. A)	193.81"	179.81"	159.81"	118.0"	
	HOOK HEIGHT (DIM. B)	FIXED	53.88"	53.88"	53.88"	53.88"
		ADJ.	53.88" / 61.75"	53.88" / 61.75"	53.88" / 61.75"	N/A
	HOIST HEIGHT (DIM. C)	9"	9"	9"	9"	
	HOIST CG (DIM. D)	97.8"	95.2"	88.0"	63.8"	
	BODY LENGTH (DIM. E) ❷	18' - 22'	16' - 20'	14' - 18'	10' - 13'	
	OPTIMUM BODY LENGTHS	18' - 20' ❷	16' - 18'	14' - 16'	10' - 12'	
HYDRAULIC SYSTEMS	BODY LONGSILL WIDTH ❸	41.63" / 40.5"	41.63" / 40.5"	41.63" / 40.5"	41.63" / 40.5"	
	HYDRAULIC PUMP TYPE (CID)	Gear (4.46)	Gear (4.46)	Gear (4.46)	Gear (4.46)	
	FLOW @ PUMP RPM ❹	174 GPM @ 1,000 RPM	174 GPM @ 1,000 RPM	174 GPM @ 1,000 RPM	174 GPM @ 1,000 RPM	
	RELIEF PRESSURE	2,800 PSI	2,800 PSI	2,800 PSI	2,800 PSI	
LIFT CYLINDER ❶	HYDRAULIC RESVR.	25 gal	25 gal	25 gal	25 gal	
	TYPE	ALL MODELS INCORPORATE TWIN, DOUBLE ACTING CYLINDER WITH A DUAL BUILT-IN COUNTERBALANCE VALVES.				
	QUANTITY	2	2	2	2 ❸	
	BORE	Ø 6"	Ø 6"	Ø 6"	Ø 5.5"	
JIB CYLINDER	STROKE	54"	54"	54"	39"	
	TYPE	ALL MODELS INCORPORATE A SINGLE, DOUBLE ACTING CYLINDER WITH A SINGLE BUILT-IN COUNTERBALANCE VALVES.				
	QUANTITY	1	1	1	1 ❸	
	BORE	Ø 3.5"	Ø 3.5"	Ø 3.5"	Ø 4"	
TRUCK SPECS (RECOMMENDED)	STROKE	48"	34"	30"	24"	
	GVW RANGE	25,000 lb - 35,000 lb	25,000 lb - 35,000 lb	25,000 lb - 35,000 lb	25,000 lb - 35,000 lb	
	CAB-AXLE DIM. (SINGLE AXLE) ❹	156" - 174"	142" - 160"	130" - 144"	84" to 96"	
	CAB-TRUNION DIM. (TANDEM AXLE) ❹	150" - 162"	130" - 142"	120" - 132"	N/A	
	TRUCK FRAME RBM	900,000 in lb	900,000 in lb	900,000 in lb	900,000 in lb	
	CLEAR FRAME RAIL ❺	216"	202"	184"	134"	
PTO SPECS (RECOMMENDED)	FRAME HEIGHT	up to 43"	up to 43"	up to 43"	up to 43"	
	PUMP MOUNT ❷	Direct Mount SAE B, 4 Bolt	Direct Mount SAE B, 4 Bolt	Direct Mount SAE B, 4 Bolt	Direct Mount SAE B, 4 Bolt	
	TORQUE REQUIRED	200 ft-lbf	200 ft-lbf	200 ft-lbf	200 ft-lbf	

- 4 year warranty
 - Sliding jib
 - Slide through body locks
 - Large beveled rear rollers
 - Dual pivot rear section
 - Rugged main frame
 - Dual lift cylinders
 - Nylatron slide pads
 - Low pressure hydraulics
 - Rigorous 4 year test cycle
 - Integral Dual Counter Balance Valves
 - Designed and Built in the USA
- 1 Jib Lock out valve to prevent jib operation in dump mode standard.
 - 2 Hoist with longer bodies may not conform with I.C.C. bumper regulations or may not achieve maximum dump angle depending on truck chassis height. Contact your SwapLoader distributor for more information.
 - 3 Maximum outside to outside longsill width.
 - 4 Optimum CA/CT dimension will be influenced by type of loads carried and turning radius requirements.
 - 5 Clear frame Dim given is the overall length of hoist plus 5" for cab clearance and rear light bar mounting. Additional frame length may be necessary for other accessories such as cab guard, tarper, exhaust system, etc.
 - 6 Pump RPM and Flow are dependent on engine RPM and PTO ratio.
 - 7 PTO/Pump rotation as determined by transmission.
 - 8 Polished Nitrided Cylinder Rod.



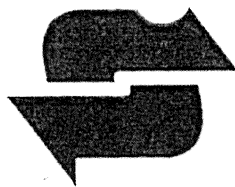
SwapLoader USA, Ltd.
 1800 N.E. Broadway Ave.
 Des Moines, IA 50313
 Ph: 515-266-3042
 Fax: 515-313-4426
 Toll Free: 888-767-8000

Your authorized SwapLoader dealer

Ask about the wide range of available SwapLoader models

www.swaploader.com

SWL-051
 2/10 Rev. 4/17



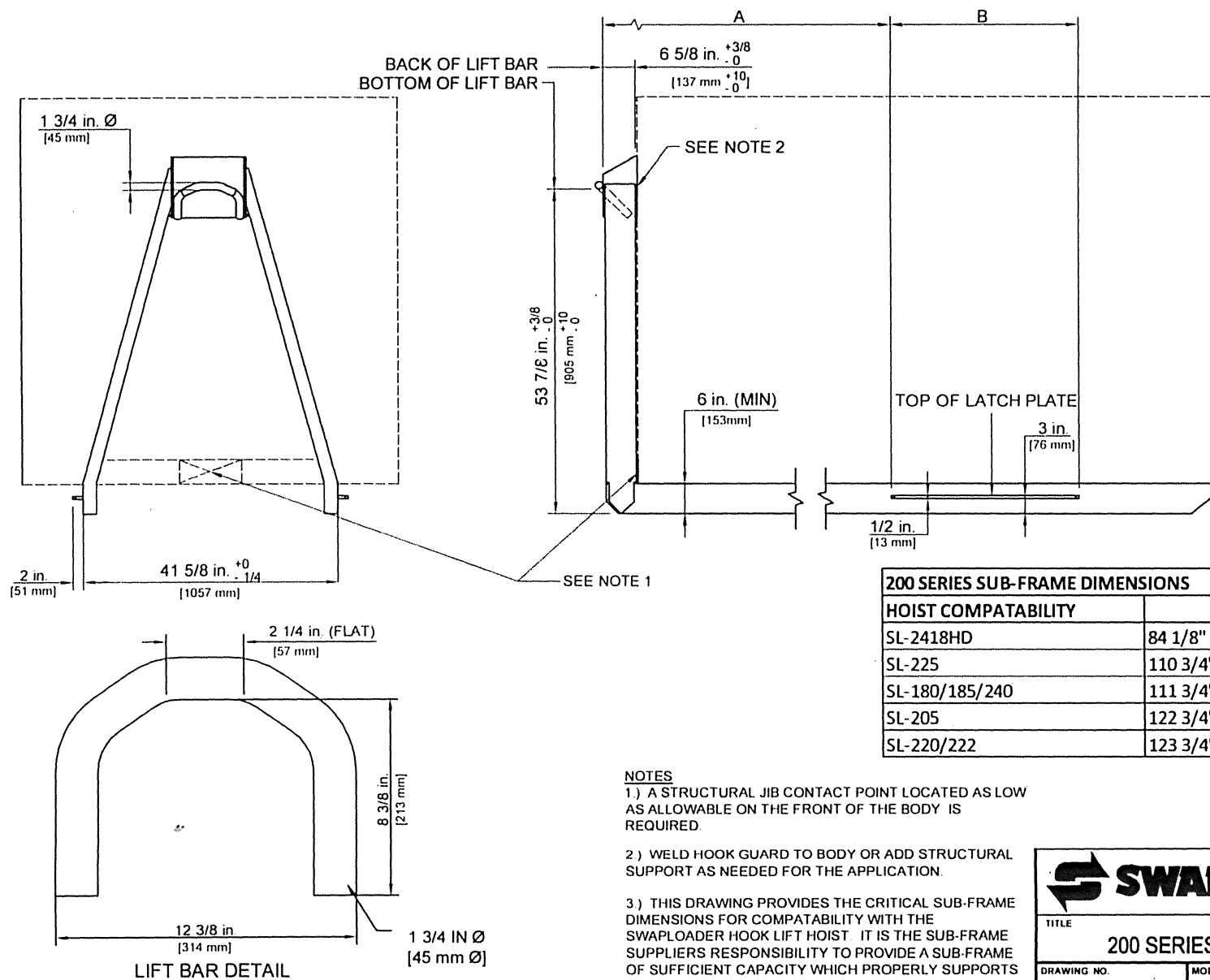
An EFCO Company

SWAPLOADER®

"Hooked on Quality"

U.S.A. LTD.

200 SERIES SUB-FRAME CRITICAL DIMENSIONS



200 SERIES SUB-FRAME DIMENSIONS

HOIST COMPATABILITY	A	B
SL-2418HD	84 1/8" [2137mm]	24" [610 mm]
SL-225	110 3/4" [2813mm]	36" [915 mm]
SL-180/185/240	111 3/4" [2839 mm]	48" [1220 mm]
SL-205	122 3/4" [3118 mm]	36" [915 mm]
SL-220/222	123 3/4" [3143 mm]	48" [1220 mm]

NOTES

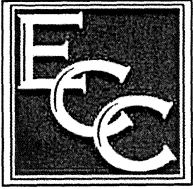
1) A STRUCTURAL JIB CONTACT POINT LOCATED AS LOW AS ALLOWABLE ON THE FRONT OF THE BODY IS REQUIRED.

2) WELD HOOK GUARD TO BODY OR ADD STRUCTURAL SUPPORT AS NEEDED FOR THE APPLICATION.

3) THIS DRAWING PROVIDES THE CRITICAL SUB-FRAME DIMENSIONS FOR COMPATABILITY WITH THE SWAPLOADER HOOK LIFT HOIST. IT IS THE SUB-FRAME SUPPLIERS RESPONSIBILITY TO PROVIDE A SUB-FRAME OF SUFFICIENT CAPACITY WHICH PROPERLY SUPPORTS THE BODY/CONTAINER WHEN USED WITH THE HOOK LIFT HOIST.



TITLE 200 SERIES SUB-FRAMES		
DRAWING NO. S-934	MODEL NO.	REV A

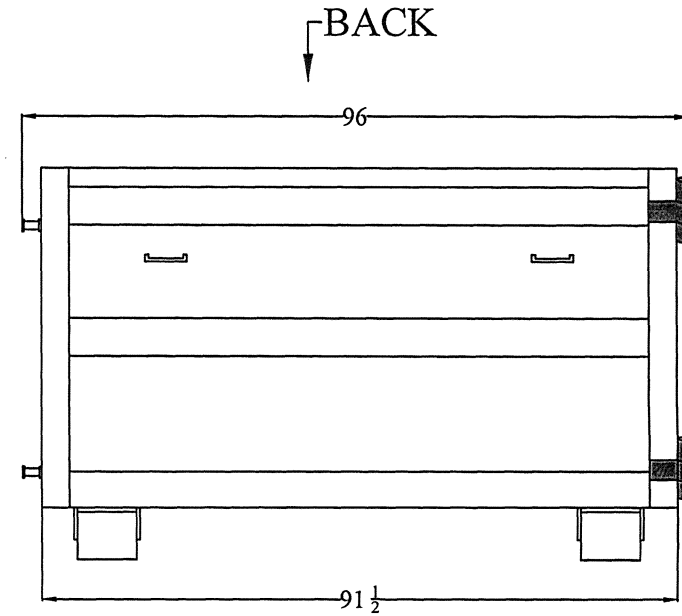
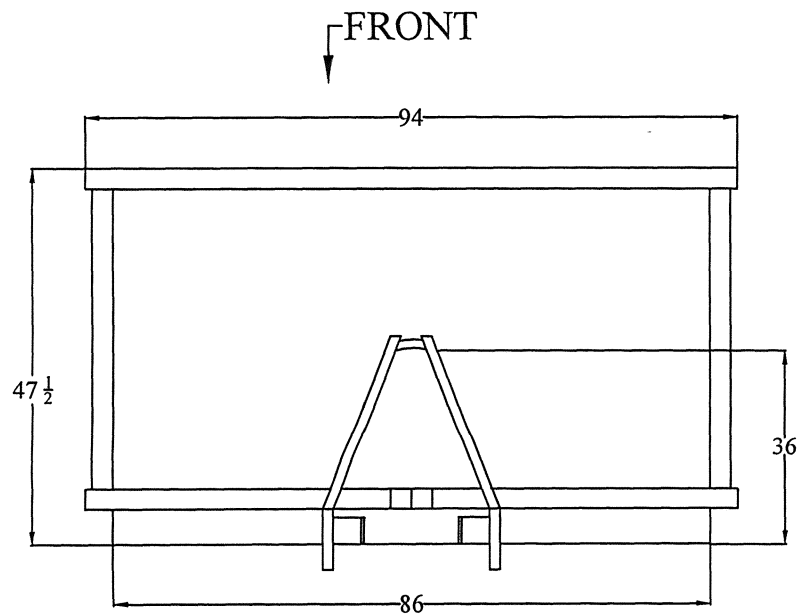
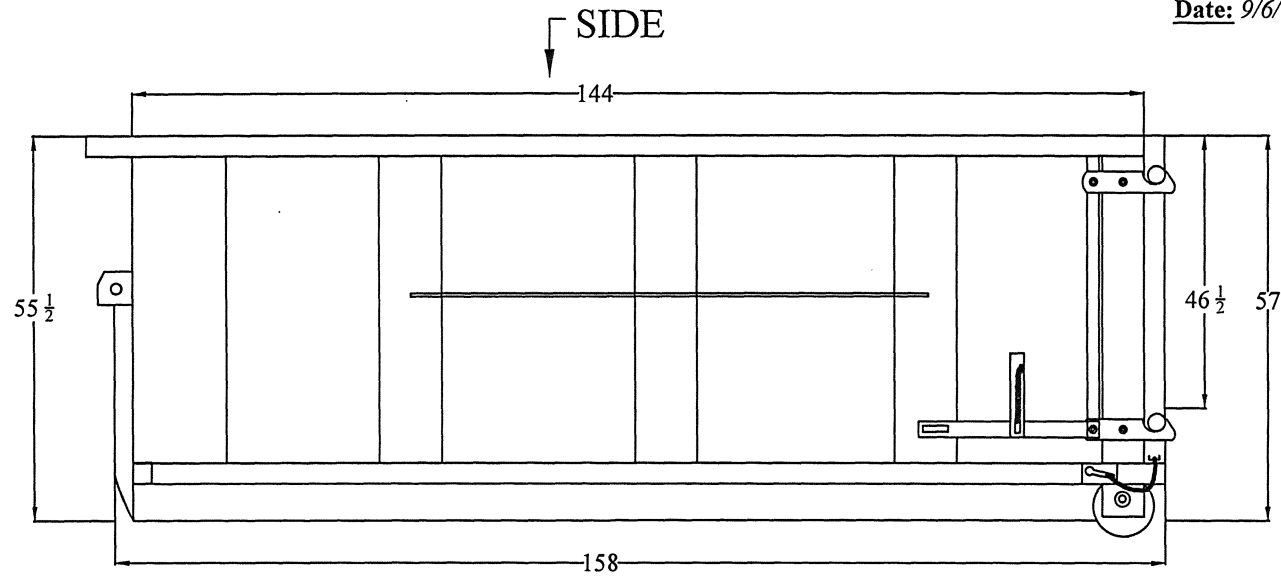


12 YARD HOOK LIFT

MODEL#: 12 YD-HL

Drawn by: Dom Rosati

Date: 9/6/13





TRUCK BODIES

— EXPECT THE BEST —

PB9600SD

SUPER DUTY PLATFORM/ STAKE BODIES

For your heaviest
hauling applications



**SHOWN
EQUIPPED WITH:**

- 24' Body
- ICC Bar
- Backup Alarm
- Twin Telescopic Underbody Hoist

INSTALL OPTIONS:

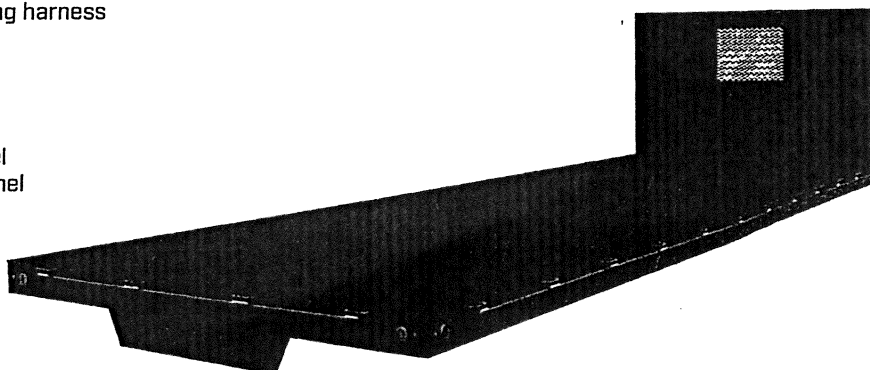
- Rear Hitch Plate or Hitch Receiver
- Underbody Toolboxes
- Dump Hoist - Electric or PTO
- Backup Alarm
- Brake Controller
- Trailer Connector
- Load Tarps - Manual or 12V
- ICC Bars
- Lift Gates

NTEA
THE ASSOCIATION FOR THE TRAILER TRUCK INDUSTRY

PB9600SD Super Duty Platform / Stake Bodies

Standard Specifications & Options

- 48" high weld-on bulkhead with screened window. Also available in 54", and 60" high
- ¾" LED Marker and clearance light kit meets (FMVSS108) Includes wiring harness
- Primed and painted black [other colors available]
- Structural channel long sills
12'6" - 18'6" • 7" x 9.8 lb. channel
20'6" - 26'6" • 8" x 11.5 lb. channel
- 4" Structural channel cross members 12" o.c.
- 6" Structural channel rear and side rails
- 7 ga. smooth steel floor
- ¾" heavy-duty exterior stake pockets with ¾" x 3" rub rail on sides and rear
- Standard overall width 96" [optional 102" wide]



STANDARD OVERALL LENGTH AND APPROXIMATE WEIGHT IN POUNDS*								
Length	12'6"	14'6"	16'6"	18'6"	20'6"	22'6"	24'6"	26'6"
Weight with steel floor	2262	2556	2844	3134	3510	3797	4095	4395
Weight with wood floor	1971	2210	2447	2684	2994	3241	3484	3733

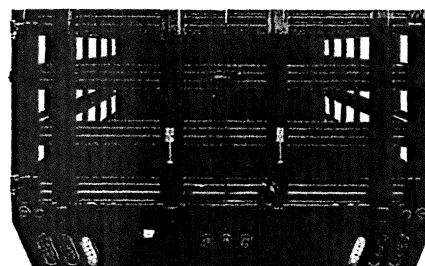
*Length includes 3" bulkhead and rear stake pockets with rub rail

OPTIONS:

- Floor: Shiplapped pine, apitong hardwood, tread plate, or anti-slip floor paint
- Full rear 10" drop light apron — Includes oval stop/tail, turn, reverse, and license plate lights with wiring harness
- Cab shield (standard sizes 18", 36", & 48")
- ICC bumpers
- Custom sizes and configurations available

STAKE RACKS

- 42" high 4 slat racks
- Constructed with 11 ga. reinforced hat stakes and 16 ga. roll formed slats
- Spring-loaded latch system on stakes assures secure attachment to body
- Optional rear swing out racks with bolt-on rear post
- Rack weight per 4' section
4 slat — 42" high, 49 lbs.



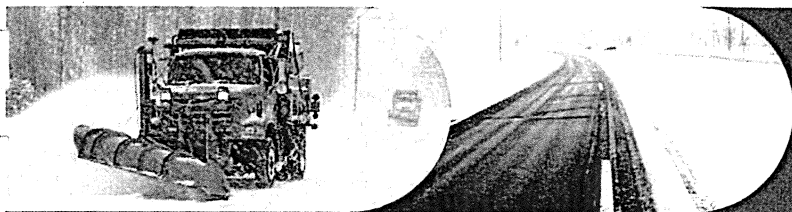
Shown with optional rear swing racks and full 10' light apron



TRUCK BODIES
— EXPECT THE BEST —

www.shtruckbodies.com

610.273.0157



SpreadSmart Rx™

Electronic spreader control systems

HYDRAULICS

CONTROLS

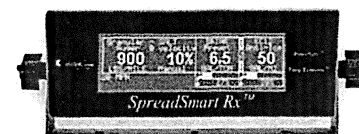
REPORTING

Precision controls for powerful spreader performance

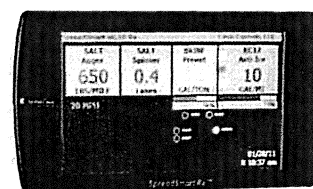
When it comes to electronic spreader controls, your winter maintenance vehicles require accuracy, power and performance. Offering sophisticated technology such as temperature-controlled spreading, integrated load and rate management and Wi-Fi data transfer compatibility, the SpreadSmart Rx™ provides industry-leading precision and easy operation. What's more, the SpreadSmart Rx is designed with AVL ready hardware providing capacity to advance your system technology as needed.

SPREADSMART RX

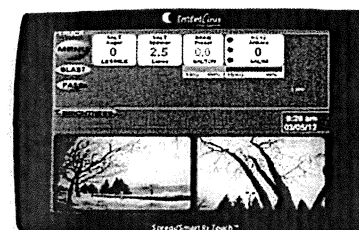
- The most versatile spreader control in the industry
- 4 channels, closed loop, ground-speed oriented, granular, pre-wet, anti-ice control
- Optional 8 channels, closed loop, ground-speed oriented, granular, pre-wet, anti-ice control for tow plow applications
- Multiplex/CAN bus communication
- Temperature-triggered spreading control
- Proportional closed-loop gate control
- On-board diagnostics tools
- AVL ready



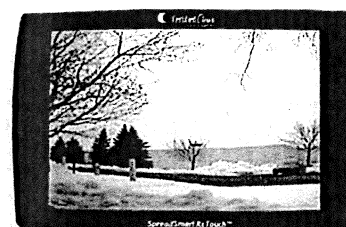
LCD display



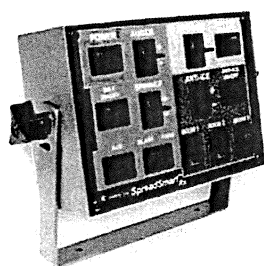
7" color display



10" dual camera touch display
front view



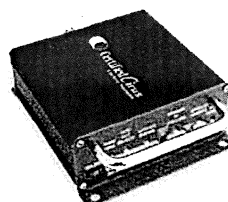
10" dual camera touch display
backup view



Toggle keypad

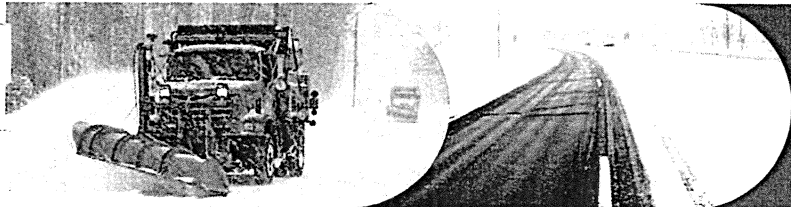


Membrane keypad



SpreadSmart Rx CPU





SpreadSmart Rx™

Electronic spreader control systems

PRODUCT SUMMARY

- 4 channel, ground speed oriented, open/closed-loop controller with data logging and optional Wi-Fi data transfer
- Prescription spreading using live road temperature data and/or by programmed rates

PRODUCT APPLICATION

- Auger/conveyor, spinner, pre-wet and anti-icing (3 booms x 2 tiers)

SPREADING PRECISION

- Industry-leading spreading precision in closed-loop and open-loop operation

SINGLE OR MULTIPLE LANE WIDTH SETTINGS

- Area spreading in lbs/gal per lane mile (auto adjusts rate for > 1 lane spreading)
- Linear spreading in lbs/gal per mile (operator controls spinner)

SPREADING RATE DEFINITIONS

- Customized application rates for granular, pre-wet and anti-icing
- 10 types for granular, 10 types for pre-wet, 10 types for anti-ice

TEMPERATURE-LINKED SPREADING PRESCRIPTIONS

- Temp Response™ integrates road temperature sensor, controlling granular and liquid application automatically

LOAD AND RATE CALCULATOR AND MATERIAL REMAINING

- Calculates granular and liquid requirements for each route (miles) and automatically sets system rates per that calculation
- Auto mode then includes indication for miles, tons, gallons and % remaining

PROPORTIONAL GATE CONTROL

- Control of optional closed-loop hydraulic gate height and conveyor speed

ENGLISH AND METRIC UNITS STANDARD

- System operates in English or metric units

DATA LOGGING BY MATERIAL NAME FOR BILLING

- Select specific application rate definitions and related data logging for specific purpose (i.e., state vs. county vs. city roads)

STORM AND SEASON TOTALS

- System logs application amounts by rate definition for the storm and the season (storm total is operator resettable)

AVL READY

- Compatible with many brands of radio and cell phone AVL systems

SYSTEM SET-UP WIZARD

- On-screen, step-by-step programming and troubleshooting

ON-SCREEN DIAGNOSTICS AND HELP MENU

- System diagnostics available on screen for settings, software, memory, GPS, distance meter
- Easy-to-follow instructions for use of all parameters shown in "help menu"

BLAST AND PASS (PAUSE)

- Blast is programmable (on/off, timed, momentary)
- Pass (pause spreading temporarily)
- Remote blast and remote pass accessible

SIGNAL COMMUNICATIONS

- Multiple frequency settings for valve compatibility
- Multiplex/CAN bus communication

POWER SAFETY

- Power Safe™ signals prevent random grounds powering any hydraulics system attached (auger, spinner, conveyor, etc.)
- Channel Safe™ detects and protects against open or short circuits on hydraulic drive channels
- Minimum: 11 Volts DC; Maximum 15 Volts DC

SYSTEM DISPLAY OPTIONS

- White/blue LCD: 8 lines, 40 characters/line
- 7" color TFT: 16 lines, 40 characters/line
- Optional 7" TFT touch-screen control

SYSTEM MOUNTING

- Seat or pedestal mount
- Standalone or dash mount for display

WARNING INDICATORS

- Visible (on display) and audible (buzzer)

OPTIONAL EQUIPMENT

- GPS antenna
- Road and air temperature sensor
- Drive by Download™ system
- Gate height sensor, gate height position, hopper level



Minneapolis, MN
763-493-9380

St. Louis, MO
314-344-3300

Des Moines, IA
515-244-7411

Chicago, IL
847-573-3800

Toledo, OH
419-873-7411

www.certifiedcirrus.com