CITY OF NEWTON, MASSACHUSETTS

PURCHASING DEPARTMENT

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September 24, 2014

ADDENDUM #1

INVITATION FOR BID #15-29

SUPPLY & DELIVER MEDIUM CONSTRUCTION TRUCK WITH HOT BOX

THIS ADDENDUM IS TO: CORRECT THE VEHICLE SPECIFICATION AS follows:

PAGES 8 THROUGH 25 OF INVITATION FOR BIDS #15-29 (IFB) ARE HEREBY DELETED AND THE 23-PAGE SPECIFICATIONS ATTACHED TO THIS ADDENDUM ARE SUBSTITUTED THEREFOR. ANY REFERENCES IN THE IFB TO THE DELETED PAGES ARE DEEMED CHANGED TO REFERENCES CONSISTENT WITH THE ATTACHED SPECIFICATIONS.

All other terms and conditions of this bid remain unchanged.

PLEASE ENSURE THAT YOU ACKNOWLEDGE ALL ADDENDA ON YOUR BID FORM. FAILURE TO ACKNOWLEDGE ALL ADDENDA COULD RESULT IN REJECTION OF YOUR BID AS NONRESPONSIVE.

Thank you.

Nicholas Read
Chief Procurement Officer
Addendum #1 – Project Manual #15-29 – Supply & Deliver Medium Construction Truck with Hot Box
Page 2 of 24
INTERNATIONAL® Vehicle Specifications
2016 7409 SFA 4X2 (BA629)
August 06, 2014

Description
Base Chassis, Model 7400 SFA 4X2 with 160.00 Wheelbase, 85.00 CA, end 63.00 Axle to Frame.
FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866”x 3.622”x 0.433” (276.0mm x 92.0mm x 11.1mm); 456.0” (11592mm) Maximum GAL.
BUMPER, FRONT Steel, Swept Back

Includes
: BUMPER, FRONT Powder Coated Gray (Argent) Color
FRAME EXTENSION, FRONT Integral, 20” In Front of Grille
WHEELBASE RANGE 146” (370cm) Through and Including 165” (419cm)
AXLE, FRONT NON-DRIVING (Meritor MFS-14-145A) Wide Track, I-Beam Type, 14,000-lb Capacity

Notes
: The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
SPRINGS, FRONT AUXILIARY Rubber
SUSPENSION, FRONT, SPRING Panbelle, Taper Leaf, 14,000-lb Capacity; With Shock Absorbers

Includes
: SPRING PINS Rubber Bushings, Maintenance-Free

Notes
: The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

Includes
: BRAKE LINES Color and Size Coded Nylon
: DRAIN VALVE Twist-Type
: DUST SHIELDS, FRONT BRAKE
: DUST SHIELDS, REAR BRAKE
: GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster
: PARKING BRAKE CONTROL, Yellow Knob, Located on Instrument Panel
: PARKING BRAKE VALVE For Truck
: QUICK RELEASE VALVE Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4
: SLACK ADJUSTERS, FRONT Automatic
: SLACK ADJUSTERS, REAR Automatic
: SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4

Notes
: Rear Axle Is Limited to 23,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle/Suspension Ordered.

BRAKES, FRONT, AIR CAM 16.5” x 6”, Includes 24 Sqn Long Stroke Brake Chambers

Notes
: The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
DRAIN VALVE (Bendix DV-2) Automatic; With Heater; for Air Tank

Includes
: DRAIN VALVE Mounted in Wet Tank

BRAKE SHOES, REAR Cast

Notes
: Provides Rear Axle GAWR Up to 20,000-Lb.

Proposal: 0410-01
INTERNATIONAL® Vehicle Specifications August 06, 2014

2015 7400 SFA 4X2 (BAS528)

Description
- The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.

AIR BRAKE ABS (Bendix AntiLock Brake System) Full Vehicle Wheel Control System (4-Channal)

AIR DRYER (Bendix AD-9) With Heater

Includes
- AIR DRYER LOCATION Inside Left Rail, Back of Cab
- BRAKE CHAMBERS, FRONT AXLE (Haldex) 24 SqIn
- BRAKE CHAMBERS, REAR AXLE (Haldex GC300LHDHO) 30/30 Spring Brake

Includes
- BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES: All 4x2, 4x4; WITH TRACTOR BRAKES: All 4x2, 4x4; 0x6 & 6x6 with Rear Tandem Axles Less Than 40,000-lb. or GVWR Less Than 54,000-lb.

BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake

Notes
- The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.

AIR COMPRESSOR (Bendix Tu-Fb 550) 13.2 CFM Capacity

STEERING COLUMN Tilt+

STEERING WHEEL 2-Spoke, 18" Diam., Black

STEERING GEAR (Sheppard M-100) Power

EXHAUST SYSTEM Switchback Horizontal Exhaustmanifold Device, Frame Mounted Right Side Under Cab; Includes Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

Includes
- BATTERY BOX Steel with Plastic Lid
- DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
- FUSES, ELECTRICAL SAE Blade-Type
- HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover
- HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
- HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels
- JUMP START STUD Located on Positive Terminal of Outmost Battery
- PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
- RUNNING LIGHT (2) Daytime, Included With Headlights
- STARTER SWITCH Electric, Key Operated
- STOP, TURN, TAIL & 8LU LIGHTS Dual, Rear, Combination with Reflector
- TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
- TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted
- WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
- WINDSHIELD WIPERS Single Motor, Electric; Cowl Mounted
- WIRING, CHASSIS Color Coded and Continuously Numbered

CIGAR LIGHTER Includes Ash Cup

ALTERNATOR (Leece-Neville AV160/160P2013) Brush Type, 12 Volt 160Amp. Capacity, Pad Mount. With Remote Sense

BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Taill/Amber Turn/Marker Backup/Accessory Power/Ground and Sealed Connector for Step/Turn

BATTERY SYSTEM (International) Maintenance-Free, (3) 12-Volt 195CCA Total

Proposal: 9410-01
Description
2-WAY RADIO Wiring Effects; Wiring With 20 Amp Fuse Protection, Includes Ignition Wire With 5 Amp Fuse, Wire Ends Heat Shrink and 10' Coil Taped to Base Harness
RADIO AM/FM/MW/B/Ciocci/3MM Auxiliary Input, with Multiple Speakers
AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications
SWITCH, AUXILIARY Accessory Control, for Wiring In Roof, With Maximum of 20 amp Load With Switches In Instrument Panel
HORN, ELECTRIC Disc Style
BATTERY BOX Steel With Plastic Cover, 18" Wide, 2, 3, or 4 Battery Capacity, Mounted Left Side Back of Cab
HORN, AIR Black, Single Trumpet, Air Solenoid Operated
WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time
TURN SIGNALS, FRONT Dual Face, Amber/Red, Mounted on Top of Fender, Used With Standard Flush Mounted Front Turn Signal, Side Marker Lamps, Parking Lights and Reflectors
CLEARANCE/MARKER LIGHTS (6) (Truck Lite) Amber LED Lights, Flush Mounted on Cab or Sunshade
ENGINE SHUTDOWN Automatic, With 30 Second Delay, With International Engines
TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights
HEADLIGHTS ON WIMPERS Headlights Will Automatically Turn on If Windshield Wipers are turned on
STARTING MOTOR (Delco Remy 48MT Type 300) 12 Volt, less Thermal Over-Crank Protection
INDICATOR, LOW COOLANT LEVEL With Audible Alarm
ALARM, PARKING BRAKE Electric Horn Sounds In Repetitive Manner When Vehicle Park Brake Is "NOT" Set, With Ignition "OFF" and any Door Opened
CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses
HOOD, HATCH (01) for Servicing
INSULATION, UNDER HOOD for Sound Abatement
GRILLE Stationary, Chrome
INSULATION, SPLASH PANELS for Sound Abatement
FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 & 2010 Emissions
CHASSIS COATING Corrosion Resistant Primer Coating for Single Frame Rails
PAINT SCHEMATIC, PT-1 Single Color, Design 100
Includes:
- PAINT SCHEMATIC ID LETTERS "GM"
- PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
- PROMOTIONAL PACKAGE Government and Municipal Silver Package; Two Year Limited Subscription of On-Command Service Information (Formerly Fleet ISIS), and On-Command Parts Information (Formerly Fleet Parts Catalog), Requires Specific Feature Combinations
- CLUTCH Omit Item (Clutch & Control)
- PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted
- ENGINE, DIESEL (Navistar N9) EPA 10, SCR, 275 HP @ 2000 RPM, 860 lb-ft Torque @ 1260 RPM, 2200 RPM Governor Speed, 275 Peak HP (MAX)
INTERNATIONAL®
Vehicle Specifications
2015 7400 SFA 4X2 (SA626) August 08, 2014

Description
Includes:
- AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis Only)
- ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F / -40 Degrees C; for MaxxForce and Navistar Engines
- COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control
- CRUISE CONTROL Electronic; Controls Integral to Steering Wheel
- ENGINE OIL DRAIN PLUG Magnetic
- ENGINE SHUTDOWN Electric, Key Operated
- FUEL FILTER Included with Fuel/Water Separator
- FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly, With Water-In-Fuel Sensor; Engine Mounted
- GOVERNOR Electronic
- OIL FILTER, ENGINE Spin-On Type
- WET TYPE CYLINDER SLEEVES

FAN DRIVE (Horton Drivemaster Polar Extreme) Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed

Includes:
- FAN Nylon

RADIATOR Aluminum, Cross Flow, Series System; 1228 Sqf/in Core and 846 Sqf/in Charge Air Cooler and With Transmission Oil Cooler

FEDERAL EMISSIONS EPA, OBD and GHG Certified for Calendar Year 2014; NB & N10 Engines

AIR CLEANER Single Element, with Integral Snow Valve and In-Cab Control

Includes:
- GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
- THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel
- ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxForce and Navistar post 2007 Emissions Electronic Engines

-BLOCK HEATER, ENGINE (Phillips) 120 Volt/1250 Watt; With "Y" Cord From Socket in Standard Location, For a Dealer Installed Oil Pan Heater, With Extended Life Coated Metal/Plastic/Metal Material Oil Pan

Includes:
- BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

Notes:
- MPM material is single sheet composite with two layers of sheet metal sandwiching plastic material. MPM material has electro-deposition prime coat with powder coating for the final finish coat.

EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Idia Regulations

TRANSMISSION, AUTOMATIC (Allison 3600 RDS) 5th Generation Controls; Wide Ratio, 6-Speed, With Double Overdrive; On/Off Hvy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.

TRANSMISSION OIL Synthetic; 29 thru 42 Pints

ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction

TRANSMISSION SHIFT CONTROL (Allison) Bump Shifter Type; for Allison 3000 & 4000 Transmission

TRANSMISSION TCM LOCATION Located Inside Cab

SHIFT CONTROL PARAMETERS Allison Performance Programming In Primary and Allison Economy Programming in Secondary

AXLE, REAR, SINGLE (Meritor RS-26-184S) Single Reduction, Standard Track, 28,000-lb Capacity, R Wheel Ends, Driver Controlled Locking Differential, Gear Ratio: 6.14

Includes:
- REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

Notes
INTERNATIONAL® Vehicle Specifications August 08, 2014
2565 740S SFA 4X2 (SA626)

Description

- The following features should be considered when calculating Rear GAVR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cams; Brake Shoes, Rear; Special Rating, GAVR; Wheels; Tires.
- When Specifying Axle Ratio, Check Performance Guidelines and TCAP for Stability and Performance

SUSPENSION, RR, SPRING, SINGLE Vail-Rate; 31,000-lb Capacity, includes 4500-lb Capacity Multileaf Auxiliary

Notes

- The following features should be considered when calculating Rear GAVR: Rear Axles; Rear Suspension; Brake System; Breake, Rear Air Cams; Brake Shoes, Rear; Special Rating, GAVR; Wheels; Tires.

FUELWATER SEPARATOR with Thermostatic Fuel Temperature Controlled Electric Heater, and Filter Restriction/Change Indicator, Includes Standard Equipment Water-In-Fuel Sensor

FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L Capacity, 16" Tank Depth, with Quick Connect Outlet, Mounted Left Side, Under Cab

DEF TANK 7 U.S. Gal. 28.5 L Capacity, Frame Mounted Outside Left Rail, Under Cab

CAB Conventional

Includes

- ARM REST (2) Molded Plastic; One Each Door
- COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window
- CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel
- DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted
- GLASS, ALL WINDOWS Tinted
- GRAB HANDLE, CAB INTERIOR (1) "A" Piller Mounted, Passenger Side
- GRAB HANDLE, CAB INTERIOR (2) Front of "B" Piller Mounted, One Each Side
- INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color
- STEP (4) Two Steps Per Door

GAUGE CLUSTER English With English Electronic Speedometer

Includes

- GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level
- ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout
- WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)

GAUGE, TEMPERATURE, AMBIENT Sensor Wiring with Display Unit Mounted in Cluster

GAUGE, OIL TEMP, ALLISON TRAN

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes In Gauge Cluster

GAUGE, DEF FLUID LEVEL

SEAT, DRIVER (National 2000) Air Suspension, High Back With Integral Headrest, Vinyl, Incliner, 1 Chamber Lumbar, With 2 Position Front Cushion Adjust; +3 to +14 Degrees Angle Back Adjust

Includes

- SEAT BELT 3-Point, Lap and Shoulder Roll Type

SEAT, PASSENGER (National) Non Suspension, High Back With Integral Headrest, Vinyl, With Fixed Back, With Under Seat Storage

MIRRORS (2) (Lamirra) Rectangular, 7.44" x 14.84" & 7.44" sq. Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatic Controlled, Black Heads, Brackets and Arms

MIRROR, CONVEX, HOOD MOUNTED (2) (Lamirra) Heated, Left and Right Sides 7.44" Sq

HEATER (Blend-Air) with Defroster

Includes

- HEATER HOSES Premium

Proposal: 9410-01
INTERNATIONAL®

Vehicle Specifications
2015 7400 SFA 4X2 (8A538)

August 08, 2014

Description
- HOSE CLAMPS, HEATER HOSE Muba a Constant Tension Clamps
- INSTRUMENT PANEL Center Section, Flat Panel
- HVAC FRESH AIR FILTER
- STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
- CAB INTERIOR TRIM Deluxe

Includes
- "A" PILLAR COVER Molded Plastic
- CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering
- CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CIB Radio Pocket
- DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors
- FLOOR COVERING Rubber, Black
- HEADLINER Soft Padded Cloth
- INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section
- STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door
- SUN VISOR (2) Padded Vinyl with Driver Side Tell Ticket Strap, Integral to Console

CAB REAR SUSPENSION Air Bag Type

WHEEL, SPARE, DISC 22.5" Painted Steel, 6-Hole Hole, 10-Stud (285.76MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc

WHEELS, FRONT (Accuride) DISC; 22.6" Painted Steel, 6 Hole Hole, 10-Stud (285.76MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs

Includes
- PAINT IDENTITY, FRONT WHEELS White

Notes
- WHEELS, REAR (Accuride) DUAL DISC; 22.6" Painted Steel, 6 Hole Hole, 10-Stud (285.76MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs

Includes
- PAINT IDENTITY, REAR WHEELS White

Notes

PAINT IDENTITY, FRONT WHEELS Disc Front Wheels; With Vendor Applied White Powder Coat Paint

PAINT IDENTITY, REAR WHEELS Disc Rear Wheels; With Vendor Applied White Powder Coat Paint

(4) TIRE, REAR 12R22.5 G622 RSD (GOODYEAR) 482 rev/mile, load range H, 16 ply
(2) TIRE, FRONT 12R22.5 G601 HSA (GOODYEAR) 484 rev/mile, load range H, 16 ply

Cab schematic 100GM

Location 1: 0311, Omaha Orange (Std)

Chassis schematic N/A

Services Section:

WARRANTY Standard for WeekStar 7300/7400 (4x2, 4x4, 6x4, 6x6), Effective with Vehicles Built January 2, 2014 or Later, CTS-2002T

Proposal: 9410-01
INTERNATIONAL®

Vehicle Specifications
2015 7400 SFA 4X2 (BA528)

Addendum #1 – Project Manual #15-29 – Supply & Deliver Medium Construction Truck with Hot Box
Page 9 of 24

Description
SERVICES, TOWING (Navistar) Service Call to 24-Month/Unlimited Mileage to the Nearest Navistar Dealer for Navistar Warrantable Failure as Contract Defined; Includes Engine Failure if Supplier Declines Tow Coverage & ESC Supplied thru Navistar; $590 (USA) Maximum Benefit per Incident

Falcon Hot Box & Equipment from H.P. Field
SECTION 1: INTENT:
A. These specifications describe an asphalt hot box capable of:
   1. Transporting hot mix and keeping it hot all day
   2. Holding hot mix asphalt overnight
   3. Heating and re-heating cold patch asphalt

B. Diesel burner is warranted to continuously operate while the equipment is in tow and while the hopper is raised without the flame blowing out or damaging burner components

C. The asphalt hot box must have an air-jacketed hopper with no moving parts

SECTION 2: BIDDER DEMONSTRATION:
A. Manufacturer or manufacturer's representative must provide a working demonstration of manufacturer's equipment within five business days prior to the bid opening. Sample of current production model burner box combustion chamber must be made available for inspection at this demonstration. Demonstration must be conducted at the solicitor's facility at no expense to the solicitor. Bidders who fail to conduct said demonstration will be deemed non-responsive.

SECTION 3: BIDDER REQUIREMENTS
A. Bidder is required to submit complete specifications and current brochure of the unit that the bidder would deliver if awarded this project.

B. Bidder shall state the model, year and the name of the manufacturer of the equipment that would be delivered.

C. Bids will be accepted from equipment manufacturers or their authorized dealers whose current standard production model meets this technical specification.

D. Bidder must include a copy of the applicable warranty. Bidders submitting a "pass-through" warranty will be deemed non-responsive.

SECTION 4: LOCAL SERVICE PROVIDER:
A. Bidder must include the name and address of the service provider within 30 miles of the City of Newton responsible for ongoing parts and service support. Bidders who fail to meet this requirement will be deemed non-responsive.

   _______________________________________________________________________
   Service Provider Name

   _______________________________________________________________________
   Service Provider Address

   _______________________________________________________________________
   Service Provider Contact Name and Phone Number

   Mileage from servicing dealer to end-customer

SECTION 5: COMPLIANCE TO SPECIFICATIONS
A. Any deviation from these specifications must be clearly described in detail in the area provided at the end of each section of this technical specification document. Attach additional pages describing exceptions if necessary. No verbal interpretations will be accepted.

B. Equipment delivered that does not meet these specifications, as determined by the solicitor, will be rejected.
SECTION 6: HOPPER CAPACITY:

A. CAPACITY
1. Six Tons

Comply to all items in section: Yes________ No________

Exceptions:____________________________________________________

SECTION 7: HOPPER CONSTRUCTION:

A. WALLS
1. Hopper has three parallel walls (inner, middle and outer)
2. Hopper floor and all hopper walls are heated
   i. Hopper is heated by an air-jacket below the hopper floor and between the inner and middle hopper walls
3. All walls must be of one piece, seamless steel construction
   i. Multi-piece wall construction has seams that allow moisture to wick into the insulation causing the insulation to sag and the steel to rust
4. Front and side hopper walls angled
   i. Straight hopper walls require a much larger hopper floor making it difficult for the operator to reach all the material in the hopper with both feet on the ground
5. The tops of all three steel layers of the front and rear hopper walls angled to create a 2° slope
   i. This 2° slope allows water to drain off the top of the material loading doors
6. Complete area between middle and outer walls is filled with 8 lb density, 2" mineral wool insulation
   i. Fiberglass insulation does not provide required insulating properties (R-value) and therefore is not acceptable
7. Top of hopper walls to be secured to one another with 10-gauge steel capping channel and side hopper walls to be secured to one another with 10-gauge steel corner molding
   i. Capping channel and corner molding add structural strength to the hopper preventing hopper from becoming out of square over time
   ii. Sheet-metal to sheet-metal construction where hopper wall corners are butt-welded together without capping channel or corner molding is not acceptable because this design lacks the structural integrity required to maintain a square hopper over time
8. Zip screws may not be used in the construction of the hopper

B. BURNER BOX
1. Burner Box is:
   i. Located below the hopper floor
   ii. Constructed of 16.3 gauge channel iron
   iii. Insulated with 1" ceramic blanket on all four walls and the floor
   iv. Constructed of all stainless steel internal components

C. HOPPER FLOOR
1. Hopper floor is constructed of a single piece of 1/2" plate steel that is 34" wide and a minimum 51" long
2. The hopper floor is free of any metal wall or divider that partitions the hopper into compartments
   i. Since the same burner would heat all hopper compartments, all the compartments would be heated even when one compartment was empty. Heating an empty compartment would be akin to heating an empty pan on a hot stove which could damage the steel and shorten the useful life of the equipment
   ii. Partitioning hopper floor creates obstruction that makes it difficult for street crew to access material

D. HOPPER HEAT DUCT
1. A single, diamond shaped 10-gauge steel heat duct is welded from the front hopper wall to the back hopper wall
   i. The diamond shaped design prevents asphalt build-up on the heat duct
2. Heat duct is continuously welded
   i. Continuous welds contribute to the structural integrity of the hopper
3. Heat duct is a minimum of 12” above the hopper floor
Comply to all items in section:  Yes_________ No_________

Exceptions:__________________________________________________________________________

SECTION 8: HOPPER TOP LOADING DOORS:

A. Stee loading doors are framed on square tubing with angle iron reinforced cross members
B. The area inside loading doors is completely filled with insulation
C. Doors are hinged to the hopper corners with bolt-on, greaseable 1 1/4" diameter 4-bolt pillow block bearings
   1. Piano hinges that connect the hopper to the material loading doors are not acceptable due to the high
      failure rate caused by asphalt build-up along the hinge
D. Two hydraulic cylinders with 2.5" bore, 1.5" rod, and a 16" stroke
E. Loading doors are bi-fold with two equal-size sections hinged together the entire length of the door and covered
   with a neoprene guard.

Comply to all items in section:  Yes_________ No_________

Exceptions:__________________________________________________________________________

SECTION 9: HOPPER UNLOADING DOOR:

A. Rear hopper wall includes a single, fully insulated, guillotine-style door
B. Unloading door-opening dimensions must be a minimum of 16" high and a minimum of 33" wide
C. One 2.5" bore, 1.6" rod and 16" stroke hydraulic cylinder
D. Hopper floor asphalt guide allows asphalt to flow onto shoveling apron
E. Detachable and fully adjustable shoveling apron attached to rear of unit
F. Without removing the apron, it must be capable of being positioned to dump asphalt without contacting the apron.

Comply to all items in section:  Yes_________ No_________

Exceptions:__________________________________________________________________________

SECTION 10: HOPPER HYDRAULIC CONTROLS:

A. Lever on curbside spool valve controls movement of loading doors (raise and hold to open, lower and hold to
   close)
B. Lever on curbside spool valve controls movement of material door (raise and hold to open, lower and hold to
   close)

Comply to all items in section:  Yes_________ No_________

Exceptions:__________________________________________________________________________
SECTION 11: CONTROLS:

A. Temperature controller mounted in NEMA-3 rated lockable electrical enclosure
B. Temperature controller is adjustable up to 300 degrees Fahrenheit
C. Burner stops running when the temperature setting on the temperature controller is reached
D. Temperature controller initiates the firing of the burner when the hopper temperature measures 10 degrees below the temperature set by the operator on the controller
E. Volt meter installed inside electrical enclosure
F. Burner turns on/off with individual toggle switches
G. Toggle switches are labeled
H. Operating instructions sticker is displayed inside of electrical enclosure

Comply to all items in section:  Yes_________ No__________

Exceptions:__________________________

SECTION 12: DIESEL HOPPER HEAT SYSTEM:

A. BECKETT DIESEL BURNER
1. Hopper heated by one 105,000 BTU maximum RW Beckett diesel burner
2. Diesel burner fuel solenoid powered by a 12-volt system
3. Burner includes a cad cell (eye) to shut down the flow of fuel if the burner flame is not present
4. A pressurized pump controls the flow of fuel to the diesel burner
5. Diesel burner spark ignition system is powered by a 12-volt battery
6. Burner has automatic recyle on spark system and automatic shut down safety system
7. Nozzle shall be .75 GPH
8. Diesel burner is warranted to continuously operate while the equipment is in tow and while the hopper is raised without the flame blowing out or damaging burner components

B. BURNER BOX COMBUSTION CHAMBER
1. Burner box combustion chamber is constructed of a one-piece, seamless, vacuum formed ceramic fiber that is 1" thick with an insulation rating for temperatures in excess of 2,000 degrees Fahrenheit
2. The one-piece, seamless, burner box combustion chamber must extend:  
   i. From the diesel burner flange (Diagram Point A)
   ii. Through the burner box front wall (Diagram Point B)
   iii. Extending a minimum of three inches into the burner box (Diagram Point C)
3. The front wall of the one-piece, seamless, burner box combustion chamber (Diagram Point D) shall be angled 45 degrees to induce a tumbling effect causing a complete blending of the fuel and the air
   i. The complete blending of fuel and air resulting from the tumbling effect maximizes fuel efficiency which reduces carbon emissions and reduces fuel usage
4. All internal corners of the burner box combustion chamber (Diagram Points E,F,G) must have a radius to maximize the movement of air passing through the burner box combustion chamber
   i. Burner box combustion chambers with square corners trap air resulting in decreased airflow and increased combustion chamber temperatures that shorten the service life of the burner box combustion chamber
3. Portable asphalt hot box fuel efficiency rating must exceed 90% when tested at 105,000 BTU. Independent, 3rd party test results, on the qualified diesel burner testing facility's letterhead, must be submitted with the bid package
   i. Equipment with a high fuel efficiency rating results in:
   ii. Lower fuel usage / lower ongoing operating costs
   iii. Lower carbon and NOx emissions
   iv. Less cell cell maintenance caused by the sooty waste by-product of incomplete combustion
4. Direct fire systems (i.e., systems that do not incorporate the use of a burner box combustion chamber) will not be accepted due to:
   i. The risk of fire caused by accumulation of un-combusted fuel and
   ii. Their inherent low-fuel efficiency causes increased carbon emissions and increased fuel usage
3. Burner box combustion chamber has steel housing that bolts to the diesel burner (Diagram Point A) and the front burner box wall (Diagram Point B)

C. BATTERY
   1. One 550 CCA 12-volt deep cell battery is mounted in a battery box

D. DIESEL EXHAUST
   1. All exhaust produced by the diesel burner vents through a single chimney centered on the top of the front hopper wall
   i. Venting of diesel exhaust into the hopper is unacceptable because it creates a build-up of diesel fumes / carbon monoxide which the operator is exposed to when the material unloading door (back door) is opened

E. DIESEL FUEL SYSTEM
   1. Has an in-line quick release diesel fuel filter with a water separator
   i. A fuel filter with a water separator will prevent burner failure due to water in the diesel fuel
   2. Hopper Diesel Burner Fuel Tank
      i. Diesel fuel tank has a capacity sufficient for holding hot mix and heating cold mix for three 8-hour shifts
      ii. Fuel tank bolts to 3 / 8" steel mounting brackets that are welded to the streetside hopper wall
      1. Fuel tanks that bolt into the hopper wall pierce the steel which increases the opportunity for rust to form on the outer hopper wall and moisture to wick into the wall insulation material
   3. Fuel tank neck is welded into the fuel tank
      i. Welding instead of bolting the fuel neck into the tank will prevent moisture from entering the tank at this site
   4. Fuel tank includes lockable fuel cap

Comply to all items in section: Yes__________ No__________

Exceptions:________________________________________________________________________________________

SECTION 13: PAINT:

A. Paint color is Falcon Red, Falcon Yellow or Falcon Orange, as specified by the Customer.

B. Two coats of epoxy primer and two coats of urethane finish are applied to all parts and entire unit

C. Entire unit, including all bolt-on parts, are sand blasted prior to painting

D. All accessory bolt-on parts are painted prior to assembly to chassis

E. Non-steel parts (wiring, lighting, electrical enclosures, chains, etc.) are not painted. These components/parts are installed after the paint process is complete

Comply to all items in section: Yes__________ No__________

Exceptions:________________________________________________________________________________________

5
SECTION 14: HOPPER WIRING:

A. Plug-in connector to be 7-pin flat RV, 7-pin round or 6-pin round

B. All wires shall be THHN, stranded, copper, and color coded

C. Wiring connections shall be soldered, sealed in shrink-wrap, covered with high temperature corrugated loom and protected by steel conduit
   1. Wiring must be run through steel conduit and may not be attached to the hopper walls via zip screws

D. All wiring and enclosures shall be NEMA-3 rated

E. All wiring is external to the hopper walls
   1. Wiring run between hopper walls is prone to heat damage and makes electrical repairs expensive and time-consuming

Comply to all items in section: Yes_______ No_______

Exceptions:____________________________________________________________________________________

SECTION 15: HOPPER FRAME:

A. Overall length not to exceed 12 feet

B. Overall hopper width not to exceed 83"

C. Chassis mount slip-in frame will be customized to the solicitor’s truck with one set of 2” x 6” x 3/16” tubular steel frame rails on the outside of the unit and one set of 2” x 5’ x 3/16” tubular steel frame rails between the outside set of frame rails
   1. Frame will have tubular steel cross members for stabilization

D. Two sets of two (four in total) red reflectors will be affixed to the frame
   1. One set will be on the rear of the outside frame rails
   2. One set will be on the outside of the outside frame rails at the rear of the frame

Comply to all items in section: Yes_______ No_______

Exceptions:____________________________________________________________________________________

SECTION 16: HOPPER DIMENSIONS

A. Width of loading doors with bi-fold doors open is 92” (uppermost ID left to uppermost ID right)

Comply to all items in section: Yes_______ No_______

Exceptions:____________________________________________________________________________________

SECTION 17: WARRANTY AND DELIVERY:

A. One-year warranty
   1. Pass through warranties will not be accepted
   2. Warranty must include the following statement:
      i. Diesel burner is warranted to continuously operate while the equipment is in tow and while the hopper is raised without the flame blowing out or damaging burner components

B. Four hours of safety and operation instruction are required upon delivery of the unit by a factory-trained technician

C. One Operator / Parts / Service Manual is included upon delivery
D. Operation, Parts and Service Manual must be available online on the manufacturer's website
Comply to all items in section: Yes_________ No_________
Exceptions:_________________________________________________________________________________

SECTION 18: BATTERY CHARGER:
A. A 12-volt marine grade battery charger is mounted on the trailer frame
B. The battery charger is hard wired to the unit's battery
Comply to all items in section: Yes_________ No_________
Exceptions:_________________________________________________________________________________

SECTION 19: FLUSH-MOUNTED STROBE WARNING LIGHTS:
A. A strobe warning beacon is flush-mounted on the rear of each upper loading door (two in total)
B. One toggle switch in the common electrical enclosure controls the warning lights (beacon and oval strobes)
Comply to all items in section: Yes_________ No_________
Exceptions:_________________________________________________________________________________

SECTION 20: LED OVAL STROBE WARNING LIGHTS:
A. An LED oval strobe warning light is mounted on the rear of each hopper sidewall (two in total)
B. One toggle switch in the common electrical enclosure controls the warning lights (beacon and oval strobes)
Comply to all items in section: Yes_________ No_________
Exceptions:_________________________________________________________________________________

SECTION 21: RELEASE AGENT DISPENSER HOLDER:
A. A bracket capable of storing a one-gallon solvent reservoir for spraying & cleaning tools is securely mounted on
the curb side of the shoveling apron
Comply to all items in section: Yes_________ No_________
Exceptions:_________________________________________________________________________________

OPTIONS ON THE FOLLOWING PAGES
SECTION : LADDER AND CATWALK:

A. A catwalk made of diamond tread plate steel is installed on the front section of the frame

B. A ladder that can fold up and out of the way is bolted to the front section of the curbside frame
   1. Rails are installed on either side of the ladder for operator to grasp when climbing on the ladder

Comply to all items in section:  Yes________  No________

Exceptions:_______________________________________________
EQUIPMENT SPECIFICATIONS FOR ONE HEAVY HOOKLIFT TRUCK FOR THE
CITY OF NEWTON

Hooklift Specifications:
YES/NO

- LIFTING AND DUMPING CAPACITY: 24,000lbs on a 98" CA Chassis
- CONTAINER/BODY LENGTH: 10'-12'6", Flatbeds up to 14'6"
- HOKEHEIGHT: 54" DUMP ANGLE: 54 degrees
- LIFT/DUMP CYLINDER: "DA" 5.5" bore x 40.38" stroke, 2.5" cylinder rod diameter
- PINS: Stainless Steel 17-4
- BUSHINGS: Permanently lubricated and greaseable type
- SHIPPING WEIGHT: Not to exceed 2,600lbs
- FINISH PAINT: DuPont Imron 5000

 Tilting Hook Assembly:
Front Tilt Section Assembly: Hooklift must have a pivoting type tilt section hook assembly to provide a low degree loading/unloading angle. The pivoting front tilt section must lift front of container/body off of front saddles, then rolling the long sills on the load rollers, eliminating the need for wear pads. No frame rail wear pads will be accepted.

Tilt Cylinder: Single 4"(102mm) bore x 14.5"(368mm) stroke x 2"(51mm) diameter cylinder rod.
Cylinder must be double acting with integral counterbalance valves to prevent cylinder collapse in case of hose failure. Cylinder is sized for capacity. Tilt cylinder must be fully retracted when in transport mode to prevent exposure of the cylinder rod to corrosive road salts.

Tilt/Dump Interlock: Dumping must be accomplished through a rear pivot point. The tilt/dump interlock should be accomplished by the tilt section tabs which pivot under the dump section tabs to form support the full length of the container and change the pivot point to the rear of the hooklift. Tilt and dump sections must lock into a rigid 27"(688mm) wide frame to support the body/container while in the dump mode. This must be accomplished without the use of springs, latches, rods, brackets, air/hydraulic cylinders, and or gravity to change modes of operation. The hooklift must be protected from out of sequence operation.

Load Rollers: Hooklift must have 2-load rollers, (1-each side), which long sills roll on, wear pads unacceptable. Wear pads are a wear part and will need to be replaced. All rollers must have grease zorks. Roller flanges must be maximum of 6" (162mm) diameter.

Rear Body Hold-downs: Dual fixed-position hold down devices mounted to the dump frame to secure the body to the hooklift through all ranges of the dump mode and transportation. This must be accomplished without the use of springs and/or hydraulic/air cylinders. Hooklift must be compatible with containers manufactured to ANSI 2245.60 recommended standard for waste containers. Slide through hold-down devices not allowed.

Meets above specifications yes no

Exceptions
CENTRAL HYDRAULIC SYSTEM:
The central hydraulic system shall consist of a front mounted pump and chassis mounted valve capable of a maximum pressure of 4,200psi and 15gpm. The pump shall be driven directly by the engine crankshaft of the chassis. There shall be a low hydraulic oil shutoff system which ceases the flow of oil to the valve and sets off an audible and visual alarm in the cab when a low oil situation occurs. A momentary override switch temporarily returns the hydraulic system to operation for equipment stowing and fault finding. The control valve shall be of mobile design to withstand exposure to de-icing chemicals and severe weather conditions. It shall be of cast iron construction-horizontally stackable and serviceable without disassembly. Sections for front plow shall be operated via in-cab controls with marine grade stainless steel cables. The valve shall be assembled as a single unit and mounted in a sealed stainless steel enclosure. Multiple valve assemblies are unacceptable.

Valve Section Functions are to be as follows:
- DA Plow raise/lower
- DA Plow reverse (designed for locking pin plow)
- DA Dump raise/lower
- DA Tilt w/ 500 PSI Relief on Down Side
- Power Beyond for connection to the Hot Box Controls

A 35-gallon chassis mounted hydraulic oil reservoir shall be provided including internal return line filler and sight/ temp gauge.

Valve and Spreader Control must be made by the same manufacturer to ensure complete system compatibility.

Meets above specifications: yes  no

Exceptions:

SPREADER CONTROL:
The CAN Bus spreader control system shall be ground speed orientated to maintain a pre-determined application rate regardless of vehicle speed. Control shall be by microprocessor for high control accuracy with the outputs being current compensated. The controller must be modular in design to allow flexibility in mounting. The display will be a glass/film/glass design and have on screen touch controls. The screen will offer an adjustable brightness. The display must include a 1.5 watt speaker that announces rate change, pause and blast. The controller must be capable of operating in Manual, Automatic (Closed Loop), Open Loop, Ground Speed Triggered and 12V triggered. The controller must be capable of operating Auger/Conveyor, Spinner, Pre-Wet and Anti-Ice. The Operation selection is key coded USB device. The Controller is to offer 4 different Granular, Pre-Wet, Anti-Ice Materials each with 9 programmable rates. It must be capable of operating the Spinner, Auger/Conveyor, Pre-Wet, and Anti-Ice all at the same time.

THE CONTROLLER MUST OFFER THE FOLLOWING FEATURES:
TEMPERATURE READ BACK AND PRE-WET TEMPERATURE COMPENSATION:
The controller must be capable of reading and logging road temperature via an external sensor (Control Products or Sprague Road Watch) and Temperature Compensation for Pre-Wet Control.

GPS COMPATIBLE:
The controller must be capable of supplying logging information to an external GPS system.

ONBOARD WI-FI AND GPS INFO:
System must offer onboard wi-fi for optional data downloading and uploading from optional Desktop Software.
AUTO NULLING:
When in closed loop granular or liquid the controller must be capable of doing an Auto Null for
the auger/conveyor and the liquid hydraulic valve sections. Manual Nulling must also be
available for all circuits.
SYSTEM PROGRAMMING:
Programming of the spreader control must be able to be done on screen with easy menus or
through the desktop/laptop computer and transferred via keyed USB Drive.
TRIP SUMMARY INFORMATION:
The driver must be able to access a trip summary screen that will show miles traveled and
material spread quantities.
ON SCREEN ERROR CODE LOG:
An on screen error log must be available without any external devices such as keys or
computers.
DATA LOGGING:
The controller must be able to provide information that is event based such as: Event time,
Date, Material set-point and usage amounts, Spinner set-point, Pre-Wet set-point and usage
amounts, Blast distance and amount used, Pause distance, Gate Setting, and Road
Temperature. All the information will be transferred from the spreader control to a
desktop/laptop computer USB drive. All data logging information must be capable of being
 customized and exported. Summation reports are not acceptable.
SOFTWARE UPDATES:
The spreader control software must be able to be upgradable via desktop/laptop computer.
EPROM changes are not acceptable.

Meets above specifications yes no

Exceptions

CUSTOM TRUCK/PLOW MOUNT ATTACHMENT HITCH:
The custom truck/plow attachment shall be manufactured by a recognized snow
equipment fabrication shop that has been fabricating plow hitches for a minimum of twenty
years. The hitch shall include 1/2" thick side plates reinforced and bolted as far back on the
truck frame as feasible. The vertical riser shall be a minimum of 4" x 4" x 3/8" tubing. The
horizontal member to which the base of the lift cylinder pins shall be a 4" x 4" x ½" angle boxed
with a 3/8" x 5" flat bar. The lift cylinder shall be double acting with a 4" bore and 10" stroke,
chrome plated piston rod, adjustable chevron type packings, and a wiper to clean the piston as
it retracts into the cylinder. The bottom of the hitch, behind the connecting points for the push
frame, shall be adequately reinforced to transmit all plowing forces to the frame of the truck.
Hitch is to be tilt over type (stationery grill required on chassis) so as not to interfere with the
opening of the chassis tilt hood. The hitch is to have push lugs at two heights set on 21" and
30½" centers for attachment of the plow. The pushlugs shall be supported by a full width 4" x 8"
x ¾" angle iron which also joins the uprights at the bottom. Halogen plow lights, directional lights
with dash mounted switch are to be installed.

Meets above specifications yes no

Exceptions
LIFT CYLINDER:
The lift cylinder shall be 4" x 10" DA (double acting).
Meets above specifications  yes    no
Exceptions________________________________________

SAE "B" 2-BOLT BRACKET:
The pump mounting bracket shall be from not less than 3/8" and 1/2" plate steel. It shall
span the width of the truck frame/hitch, and shall be fabricated to accommodate an SAE "B" 2
bolt pump flange.
Meets above specifications  yes    no
Exceptions________________________________________

PUSH CENTERS 21" and 30-1/2":
The bottom horizontal member shall be fitted with eight (8) 1/2" thick plow attaching lugs, which offer two push height selections on 21" and 30-1/2" centers via two (2) 1-1/4" pins.
Meets above specifications  yes    no
Exceptions________________________________________

LIFT GROUP:
The lift group consists of a grab loop which is secured to the lift yoke with no less than a
5/8" round pin anchor shackle.
Meets above specifications  yes    no
Exceptions________________________________________

HOSE CONNECTING BRACKET WITH RESTRICTOR:
The hose connecting bracket shall consist of a mounting plate cut from 8 gauge steel
sheet with (2) holes for attaching the hose adapters, flow restrictor and quick disconnects.
Rubber dust covers shall be provided to protect the quick disconnects when not in use.
Meets above specifications  yes    no
Exceptions________________________________________

FRONT PLOW MOLDBOARD:
The moldboard shall be 10' long overall and not less than 42" high at inside of top
radius. The moldboard shall have an integral snow deflector that extends a minimum of 12" fore
of the cutting edge. The moldboard shall be brake formed (not rolled) from not less than 8
gauge H.R.M.S. sheet. It shall include an integral formed channel at the leading top edge of the
snow deflector to provide rigidity. The moldboard shall be supported by not less than (8) 1/2"
thick vertical rib, (8) of which serve as pushframe connection points. Additional moldboard
support shall be provided by a lower horizontal member from not less than 5" x 5" x 1/2"
structural angle. This angle shall also have hinge lugs welded to it and serve as the trip edge
attachment member. The trip edge shall be fabricated from not less than 4" x 4" x 3/4" structural
angle and shall be punched with 11/16" diameter holes to AASHTO standards, to accommodate either single or multiple cutting edges. The trip edge angle shall be reinforced with a minimum of (8) 1/2" triangular gussets and have hinge lugs welded to the top of it. The trip edge shall attach to the moldboard with not less than 1-1/2" diameter hot rolled steel bar. The steel bar shall slide through the hinge lugs and through (5) 7/8" diameter x 3-3/4" x 17-3/8" torsion springs. Each torsion spring shall be capable of preload adjustment.

Meets above specifications  yes  no

Exceptions

AR CUTTING EDGE (12" PUNCHED):

The cutting edge shall be 1/2" x 6" x 120" from SAE/AISI C1085 steel, and be center punched with 11/16" square holes on 12" centers to AASHTO standards. It shall attach to the moldboard with not less than 6/8" grade 8 carriage bolts with locknuts.

Meets above specifications  yes  no

Exceptions

TWIN CYLINDER LOCKING PIN POWER REVERSING PUSHFRAME:

The reversing pushframe shall consist mainly of two (2) truss members and a main drive frame angle. The truss members shall be from 4" x 3" x 3/8" angle and the main drive angle shall be from 6" x 4" x 1/2" angle. Four (4) additional pieces of 4" x 3" x 1/2" angle shall be welded perpendicular to the main drive angle connecting with the truss members so as to form a rigid structure, two (2) of which serve as support for the trip mechanism. Three (3) sets of 1/2" thick lugs shall be provided for pinning the moldboard to the pushframe over an 80" span. Three (3) 1-1/4" cold rolled steel pins shall connect the moldboard to the pushframe. A locking plate cut from 1/2" steel plate indexed with seven (7) total locking positions shall be welded to the two (2) truss members. The pushframe shall be capable of being locked into any of these positions. (0 to 35 degrees to right or left of center).

The pivot frame shall consist of a main drive member of 7" x 4" x 3/8" structural tube with two full length gussets of 3/8" plate on each side. Locking and unlocking is accomplished by a sliding drive member of 6" x 3" x 1/4" tube fitted inside the 7" x 4" x 3/8" structural tube retained by a 1" cold rolled steel pin. A 9/16" diameter alloy wire extension spring is used to pull the main drive member, containing a 1-1/4" x 2" Niroloy removable locking pin, into any one of seven (7) index positions cut into the aforementioned index guide with the above reversing frame. Additional locking force is applied by the pushing action of the plow. Both unlocking and reversing functions are provided by two (2) 3" x 16" stroke single acting hydraulic cylinders. A swivel support plate from 3/4" steel plate shall be welded at the rear of the main drive member tube. The pivot frame shall pin to the reversing frame with a 1-15/16" cold rolled steel pin through a 3-1/2" OD x 3/4" wall tube. Provisions shall be made for oscillation so as to allow the plow to follow the contour of the road without exceeding 20° to the left or to the right.

Meets above specifications  yes  no

Exceptions
BRACE ARMS:
The arm assemblies are pin connected under double shear load via a 1/2" thick connecting rib at the moldboard, and (1) 1/2" thick connecting lug at the reversing frame. Each arm assembly shall be connected to the moldboard with no less than a 3/4" bolt and to the pushframe with no less than a 3/4" pin. Brace arms shall be constructed from no less than the following: (2) 1/2" thick bars and (1) 5/8" thick bar. The arms shall also serve the dual purpose of allowing adjustment of the moldboard cutting edge angle from 25° from vertical to 10° from vertical.

Meets above specifications yes no

Exceptions

LIFT LEVELING DEVICE (DEAD SHEAVE):
The lift leveling device shall consist of a wire rope assembly that is secured to the pushframe. The 1/2" diameter stainless steel wire rope shall be wrapped one time around a dead sheave assembly and be pre-stretched prior to fabrication. The dead sheave assembly shall attach to the lifting chain with no less than a 3/8" midlink and to the pushframe with 1/2" round pin anchor shackles.

Meets above specifications yes no

Exceptions

30 1/2" SWIVEL:
The rear of the plow drive frame shall be fitted with a swivel bar. It shall oscillate about a 1-1/2" grade 5 bolt allowing the plow to follow the contour of the plowing surface. It shall consist of a 3/4" thick horizontal plate equipped with two (2) drive ears fabricated from 1-1/4" thick plate on 30-1/2" centers, which include 1-5/16" diameter drive pin holes. The drive ears are constructed to pin to corresponding attaching lugs at the bottom of the truck mounted attachment hitch.

Meets above specifications yes no

Exceptions

MOLDBOARD SHOE (10°):
Moldboard shoe shall be manufactured from a wear plate of 1-1/2" steel plate. All mounting plate and gussets from 1/2" plate steel shall be welded to the top of the wear plate to allow a 10° attack angle when the shoe is flat on the ground. Moldboard shoe shall be secured with (2) 5/8" grade 5 carriage bolts and locknuts. Two (2) moldboard shoes shall be provided.

Meets above specifications yes no

Exceptions

Exceptions

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CURB SHOE:
Curb shoe manufactured from 5/8" steel plate welded to a piece of 2-1/8" cold rolled steel. Curb shoe shall be secured with (2) 5/8" grade 5 bolts, washers and locknuts. Two (2) curb shoes shall be provided.

Meets above specifications  yes  no
Exceptions

ACCESSORIES:
Electric back up alarm shall have a minimum decibel level of 97 dba. An LED roof mounted beacon will be installed with branch guard. A 18-ton rated pintle hook with spring backing shall be installed to a 5/8" thick steel plate at the rear of the chassis. Two (2) D-rings and 7-pin trailer light plug will be included. Chassis manufacturer supplied glad hands shall be installed in the pintle plate.

Meets above specifications  yes  no
Exceptions

SKID:
10' long skid shall be included and compatible with specified hook loader. Longslids and A-frame shall be fabricated from 6" x 2" x 1/4" structural steel tubing. Skid to be delivered loose to City yard for future use.

Meets above specifications  yes  no
Exceptions

WARRANTY:
The equipment being bid will be warranted from defects in components, materials and workmanship for a period of one year from the date the truck is put into service. The successful bidder shall have a factory authorized service and parts facility within 30 miles of the end user’s garage. The distributor's facility must have an adequate stock of parts and technicians trained to perform work on the equipment bid.

Meets above specifications  yes  no
Exceptions