INVITATION TO BID
CITY OF CHEYENNE, WYOMING
PURCHASING OFFICE – ROOM 309 – MUNICIPAL BUILDING
2101 O’NEIL AVENUE, CHEYENNE, WY 82001
PHONE: (307) 773-1045

(THIS IS NOT AN ORDER)

The City of Cheyenne will receive sealed bids for furnishing One (1) New 2020-2021 Patch Truck for the City of Cheyenne Street and Alley Department, FOB destination City of Cheyenne Fleet Maintenance Shop, 2731 Old Happy Jack Rd, Cheyenne, WY, in accordance with the attached specifications. The City reserves the right to evaluate variations from the specifications and to award the bid that best meets its needs at the least cost. The City reserves the right to add or subtract the quantity of items being purchased based on budget availability (award will be based on the Cost, as identified below).

There will be a MANDATORY pre-bid meeting held on Wednesday, August 26, 2020 at 9:30 AM in Room 307 of the Municipal Building, 2101 O’Neil Avenue, Cheyenne, WY. The City will reject bids from any company who has not signed the attendance sheet prior to the commencement of the mandatory pre-bid meeting. The bidding documents, terms, and specifications will be reviewed at the pre-bid meeting. Any bidder attending the pre-bid meeting shall wear a face mask or face covering while present in the City of Cheyenne Municipal Building, or while present in any meeting room. In an effort to limit the size of the meeting, the City requests that only one (1) representative/attendee per bidder be present for the meeting. Online meetings will not be utilized for the pre-bid meeting, and any bidder must be physically present for the pre-bid meeting.

Questions, Substitutions, Line Item Modifications, or Clarifications, shall be directed to the City Purchasing Manager, by email at tbarttelbort@cheyennecity.org. Questions will be received until 5:00 pm local time on Tuesday, September 1, 2020, after which no additional questions will be accepted. The City will provide a response via Addendum no later than Tuesday, September 8, 2020 at 5:00 P.M. local time.

All questions, bid exceptions, or requests for clarification shall be submitted in the following format: Page Number, Section, Line Item Number, (Exception / Question / Deviation).

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK
ONE (1) NEW 2020-2021 PATCH TRUCK

_________________________________ (Cost/Each) $_________________
Bidder to specify Make/Model/Year of Chassis and Patch Body

Please state delivery time frame: _______________________________ # DAYS ARO (After Receipt of Order)

TRADE IN OPTIONS

Trade-In Option (Block #5835): (See paragraph 4 in the General Provisions)  $_________________

Trade-In: 2011 Bomag Roller / BW 55F Unit #M1-511
Serial# 101-620-02-9102
City Block #5835

Trade-In Option (Block #5828): (See paragraph 4 in the General Provisions)  $_________________

Trade-In: 2012 Multi-Quip Vibratory Roller / V304EH
Serial# 110707
City Block #5828

OPTIONS

ABI 1. Extended warranty for engine and aftertreatment for 5 years.  (Cost/Each) $______________

ABI 2. Back up sensors.  (Cost/Each) $______________

ABI 3. Back up camera.  (Cost/Each) $______________

GRAND TOTAL

One (1) New 2020-2021 Patch Truck
Less Trade In Block #5835
Less Trade In Block #5828
Plus ABI 1
Plus ABI 2
Plus ABI 3  Grand Total $___________________________

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Bid Guarantee:

Bid guarantee in the amount of 5% of the total bid amount as required by Wyoming Statute 15-1-113 must be submitted w/your bid (see paragraph 15 of the General Provisions attached).

Bid Guarantee shall be submitted for the following bid items:

1. One (1) New 2020-2021 Patch Truck

2. **Plus** *(Not Less)* Trade-In Offer on Block Number, #5835, #5828

Resident Bidder:

If claiming to be a resident bidder, please attach a copy of your “State of Wyoming Certificate of Residency Status”.

The undersigned bidder certifies that the firm submitting this bid is [ ] is not [ ] a Wyoming resident bidder as defined by Wyoming Statute §16-6-101.

Addendum Acknowledgement:

The Bidder acknowledges receipt of the following addenda to the Bid Documents (if none, so state). The City will consider as incomplete any bid in which all addenda are not acknowledged, and this will be a basis for bid rejection.

_________________________________________________

Addendum No. Dated

_________________________________________________

_________________________________________________

Bidder’s Name: _______________________________ E-mail _______________________________

Bidder’s Address: _______________________________ City_________________ St.______ Zip_______

Phone: _______________________________ Fax: _______________________________

Signature: _______________________________ Title:______________________________

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GENERAL PROVISIONS

1. Bidders failing to use the bid form provided by the City will be disqualified. Only one copy of the bid is required. Alternate bids will not be considered unless specifically requested by the City. The bid proposal shall not contain any recapitulation by the bidder of the work to be done or items to be furnished in an attempt to condition the bid. Any such recapitulation will not be deemed to vary any of the provisions of the Invitation to Bid. Any deviation from the specification shall be clearly indicated by the bidder. Bids must be signed in the space provided on the face of the bid. The signature shall be that of a person authorized to bind the company in a legal contract. Unsigned bids will not be considered.

2. Bids may not be withdrawn for a period of 45 days after the bid opening. Bids may be revised prior to opening in writing, signed by an authorized representative of the company; or fax or email prior to the bid opening and followed with proper written confirmation received by the City within three calendar days thereafter. No bid may be revised after the opening.

3. Bids will be publicly opened and read at the time and place advertised for opening of bid, as shown on the “Invitation to Bid”. Written addenda will be issued to all bidders of record in the event any changes are made to the bidding documents or if the bid opening date or time is revised. Requests for bid clarification shall be made no later than ten (10) days prior to the opening date. The City's response will be provided to all bidders of record. No bid received after the opening time has arrived will be considered. Late bids will be returned unopened. It is the sole responsibility of the bidder to ensure that bids arrive by the date and time specified. The bid shall be submitted in a sealed envelope which shows the bid number or name of item or service being bid, and date and time of opening to ensure against premature opening of the bid. Faxed or emailed bids will not be accepted. If the City of Cheyenne Municipal Building is closed for any reason at the date and time scheduled for bid opening, the bid opening will automatically be rescheduled for the same time on the next working day that Municipal Building is officially open.

4. Award will be made to the qualified, responsible Wyoming resident bidder submitting the lowest responsive bid, if such resident's bid is not more than five percent (5%) higher than that of the lowest qualified nonresident bidder. Bidders are required to indicate their residency status in the space provided on the face of the bid. If the bidder is a resident bidder, they may be asked to provide a copy of the “State of Wyoming Certificate of Residency Status”. The 5% Wyoming resident preference will not be applied for expenditures where federal funds are involved. Basis for award will be on total bid unless stated otherwise, and will include, where applicable, trade-in allowance, discounts, and other factors that may be indicated in the “Invitation to Bid”. Prompt payment discounts of less than 20 days will not be considered in award; otherwise, terms are net 30 days. In all cases where trades are shown on the “Invitation to Bid”, the City reserves the right to trade or not to trade as deemed in its best interest. Trade-ins are “As Is-Where Is”. If the City elects not to trade, award will be based as stated above, without taking the trade(s) into consideration for total bid amount. The City reserves the right to reject any or all bids and to waive any formality or technicality in any proposal in the interest of the City. Unit prices shall reflect all costs relative to furnishing the item, for if the accepted bid exceeds budgeted funds, the City may decrease or delete items; or if funds are available and additional quantities are needed, the City may increase quantities as necessary. Basis of payment will be for actual quantities ordered and received. If applicable to this Invitation to Bid, a formal contract may not be executed, but rather, a purchase order will be issued to the successful bidder for the goods or service to be purchased as a result of this invitation to bid.
a. The City reserves the right to reject the item(s) delivered, if the item does not meet the specifications provided by the City and the item(s) can’t be fixed. The City will not accept the item(s), and the bidder will forfeit their bid bond.

5. When an item requested in the bid is identified by a brand name, trade name, or catalog number or reference, it is understood that the bidder proposes to furnish the item so identified and does not propose to furnish an "equal" unless his bid proposal so indicates and he has obtained prior approval from the City for the item. The reference to the brand name, trade name, or catalog number is intended to be descriptive but not restrictive and only to indicate to the bidder articles that will be satisfactory. Bid for other brands, makes, etc., will be considered provided the bidder clearly states on their proposal exactly what they are proposing to furnish, and has submitted to the City at least ten (10) days prior to the bid opening date, illustrations, specifications, or other descriptive matter which clearly indicates the character of the article(s) to be covered by this bid, and has obtained the prior approval of the City for the proposed "equal". The City reserves the right to approve as equal, or to reject as not being equal, any article the bidder proposes which contains major or minor variations from specifications or other requirements, but which may comply substantially therewith. Wyoming materials and products of equal quality and desirability shall have preference over materials and products produced outside the state.

6. All items proposed shall be new and manufacturer's current model unless the City specifically requests or addresses used or demo products in the specifications. The City reserves the right to call for demonstration of products or services at no cost to the City prior to award of the bid.

7. All bid prices shall be quoted F.O.B. the applicable City Department, Cheyenne, Wyoming, unless the City specifically states otherwise elsewhere in the bidding documents.

8. All applicable federal, state, and City laws, ordinance or regulations shall apply to products or services purchased as a result of this bid. The provisions of Wyoming Statute § 15-1-113, incorporated herein by reference are an express part of these bidding documents. All bid and contract documents shall be interpreted and construed according to the laws of the state of Wyoming.

9. The bidder shall state warranty on labor and materials in months, years, hours, miles, etc., as applicable. The bidder shall assume costs of all labor, materials, per diem, freight, transportation, and any other item incidental to warranty maintenance or repairs.

10. The bidder shall comply fully with all requirements of the Equal Employment Opportunity Commission (EEOC) and the Americans with Disabilities Act (ADA) in the same manner as is expected from the City of Cheyenne. If the bidder or the bidder's employees or subcontractors are found in violation of these requirements, any order placed as a result of this bid may be canceled. The bidder shall be responsible for all such noncompliant action and shall defend, hold harmless and indemnify the City of Cheyenne there from.

11. All parties to this bid and to any order or agreement resulting from this bid assure that no person shall be excluded from participation in, denied the benefits of, or otherwise discriminated against in connection with the award and performance of the requirements of this bid on the grounds of age, sex, race, creed, color, national origin, ancestry, religion, pregnancy, qualifying disability, sexual orientation, or gender identity. The bidder agrees to include the language of this paragraph
in all agreements associated or connected in any way with furnishing of products or services as a result of this bid.

12. In compliance with the Drug-Free Workplace Act of 1988, the City of Cheyenne has established an "Alcohol and Controlled Substance Policy" that pertains to alcohol and drug usage by City of Cheyenne employees. The successful bidder and its employees and subcontractors are required to comply with the provisions of the City's Alcohol and Controlled Substance Policy for drug and/or alcohol usage on City property or other sites occupied by the successful bidder while performing the duties and responsibilities connected with furnishing of the products or services of this bid. It is the responsibility of the successful bidder to become familiar with the requirements to this policy, to inform its employees and subcontractors of their obligations to comply and to assure their compliance therewith. If the successful bidder, its employees, or subcontractors are found in violation of this policy, any order placed as a result of this bid may be canceled.

13. In submitting a bid for this project, the bidder agrees if awarded the bid, to defend, hold harmless, and indemnify the City, its officials, employees and authorized volunteers against any and all claims and costs, including attorney's fees, arising during or resulting from the successful bidder's performance of any work or furnishing any product, and shall carry such liability insurance as necessary to achieve this objective. The successful bidder acknowledges its understanding of this paragraph and realizes it may have a financial responsibility to the City hereunder. The City does not waive any applicable defenses and expressly reserves the right to invoke governmental immunity pursuant to the Wyoming Governmental Claims Act, Wyoming Statute § 1-39-101, et seq. for any claim arising out of performance of this work.

14. Parts of these General Provisions may be supplemented or superseded by specific requirements of the Invitation to Bid, Specifications, or Special Provisions.

15. The bid shall be accompanied by a bid guarantee in the amount of five percent (5%) of the total bid, if the total bid amount is $35,000.00 or more. The 5% bid guarantee may be in the form a bid bond secured by a surety or guaranty company authorized to do business in the State of Wyoming or a cashier's check made payable to the City of Cheyenne. Cash deposits, personal checks or company checks (unless certified) will not be accepted. In the event Trade-Ins are shown on the "Invitation to Bid," the bid guarantee shall include the total value of the Bid amount, including the value of Trade-Ins. For example, if the Bid amount includes $50,000 in equipment and $10,000 in Trade-Ins, the bid guarantee would be $3,000 (5% x ($50,000 + $10,000)). The bid guarantee will ensure that the bidder will not withdraw his bid within 30 days after the bid opening, and that he will execute the contract and furnish such bonds, insurance certificates, and other documents; as required in the Bidding Documents; and in the event of the bidder's failure thereof, the bidder shall be liable to the City on account of his default for the amount of bid guarantee as liquidated damages in accordance with Wyoming Statute § 15-1-113. Bid guarantee of unsuccessful bidders will be returned promptly.

16. Force Majeure: The performance of the Agreement by either party shall be subject to force majeure including, but not limited to, acts of God, fire, flood, natural disaster, war or threat of war, acts or threats of terrorism, civil disorder, unauthorized strikes, governmental regulation or advisory, recognized health threats as determined by the World Health Organization, the Centers for Disease Control, or local government authority or health agencies (including, but not limited to, the health threats of COVID-19, H1N1, or similar infectious diseases), curtailment of transportation facilities, or other similar occurrence beyond the control of the parties, where any of those factors, circumstances, situations, or conditions or similar ones prevent, dissuade, or
unreasonably delay the performance required by this Agreement. The Agreement may be cancelled by either party, without liability, damages, fees, or penalty, and any unused deposits or amounts paid shall be refunded, for any one or more of the above reasons, by written notice to the other party.

REVISED 7/1/2020
“LIQUIDATED DAMAGES”

Unavoidable Delays:

A delay in the delivery of one or more items due under this Contract shall be deemed to be unavoidable if the delay: (1) was not reasonably expected to occur in connection with, or during, the Contractor’s performance; and (2) was not caused by the Contractor’s negligence or intentional misconduct.

Notification of Delay:

The Contractor shall provide immediate verbal or electronic notification to the Contracting Officer when the Contractor becomes aware of any event or circumstance that will delay the delivery of any item or items due under this Contract. The Contractor shall also provide written notice to the Contracting Officer no later than five (5) calendar days after the verbal or electronic notice. The written notice shall include complete and detailed information relating to the events and circumstances causing the delay and the anticipated duration of the delay.

Request for Extension:

a. If the Contractor wishes to seek an extension of time for the delivery of one or more items due under the Contract, the Contractor shall supply any and all information the Contracting Officer may require to determine whether the delay is unavoidable. The Contracting Officer shall examine the request and supporting information supplied by the Contractor to determine whether the Contractor is entitled to an extension, and if so, the duration of such extension. The Contracting Officer shall grant an extension of time if consistent with the mutual duties of the City of Cheyenne and the Contractor to engage in good faith and fair dealing. The Contracting Officer shall notify the Contractor of this determination in writing.

b. It is expressly understood and agreed that the Contractor shall not be entitled to reimbursement for damages, compensation, loss of profits, or any other expense that may be incurred by the Contractor due to delays in the delivery of one or more items due under this Contract.

Liquidated Damages:

If the delivery of any item is delayed and the delay is not unavoidable, the Contracting Officer may assess as liquidated damages a sum equal to a tenth of a percent (.10%) of the per item price per calendar day or $30.00 per item per calendar day, whichever is greater. These damages shall be deducted from any money due, or which may thereafter become due the Contractor under this Contract.

NOTE: Refusal to pay Liquidated Damages will void bid
SPECIFICATIONS

Bidders shall select Y to indicate YES to meeting the Line Item Specification/Scope of Work, or N to indicate NO to meeting the Line Item Specification/Scope of Work. Bidders shall submit any Bid Exceptions or Substitution Requests in accordance with the instructions on Page 1 of this Bid. If a Bidder does not indicate Y or N on a Line Item, the City will assume that you do not meet the Line Item Specification/Scope of Work Description. Bidders are instructed to return the marked Line Items Specifications with their Bid Submission for review by the City.

MINIMUM SPECIFICATIONS FOR ONE NEW 2020-2021 PATCH TRUCK FOR THE CITY OF CHEYENNE STREET AND ALLEY DEPARTMENT

GENERAL SPECIFICATIONS

Y   N  1.  GVWR – 52,00Lbs.
Y   N  2.  GVWR front axle - 12,000 with wide track and shock absorbers.
Y   N  3.  GVWR Rear axle - 40,000
Y   N  4.  Cab to Axle/Trunnion – 138 inches
Y   N  5.  Overhang trunnion to end of frame 80 inches
Y   N  6.  Frame RBM (each channel) 2,100,000
Y   N  7.  Rear suspension, tandem, Hendrickson HMX Haulmaxx, 54 inch spacing with shock absorbers
Y   N  8.  Hubs to be iron only.
Y   N  9.  Gear ratio to be decided by company that is awarded the bid and the Fleet Maintenance Director.
Y   N 10.  Brakes to meet current federal stopping requirements.
Y   N 11.  Full air brakes
Y   N 12.  Brake chambers, spring, both rear axles parking.
Y   N 13.  Pull cable type drain valves for air tanks.
Y   N 14.  Parking brake controlled by yellow knob, located in instrument panel or dash.
Y   N 15.  Spring brake modulator valve.
Y   N 16.  Brakes (front) = Disc HD. Severe service rotors and brake pads.
Y   N 17.  Brakes (rear) = Disc HD, Severe service rotors and brake pads.
Y   N 18.  ABS Antilock brake system, 6S6M and electronic traction control.
Y   N 20.  U-joints minimum 1710
Y   N 22.  Fuel tank- 50 gallons with fuel cooler installed in system.
Y N 23. Engine to be 8.9L Cummins, 300 H.P. and most torque available for this engine size and must meet current year emission standards.

Y N 24. Oil filter to be spin on type.

Y N 25. Antifreeze to be permanent or long life to -30 degrees Fahrenheit.

Y N 26. Fan clutch to be air operated and automatic.

Y N 27. All coolant hose to have constant torque clamps. Crimp style will not be accepted.

Y N 28. Transmission, Allison 3000 RDSP, close ratio, shift energy management with push button controls mounted in dash.

Y N 29. Road speed with cruise to be 65 m.p.h.

Y N 30. Road speed with accelerator to be 70 m.p.h.

Y N 31. Overdrive and PTO provision.

Y N 32. Transmission temp gauge in dash.

**CAB**

Y N 1. Must have a driver and passenger air ride seat with seat belts.

Y N 2. Rubber floor covering

Y N 3. Cab to be severe service with thermal insulation package.

Y N 4. Mirrors to be power adjustable, Heated and have a brake away feature. Must have a 6-inch convex mirror mounted underneath on both sides.

Y N 5. Heater, Defrost and Air Conditioning system with low, medium and high speeds. Condenser to be mounted in front of radiator.

Y N 6. Steering column to be tilt and telescoping with power steering.

Y N 7. AM/FM radio with two speakers and antenna.

Y N 8. Circuit breakers to be auto reset which replaces all fuses except 5 amp and lower.

Y N 9. Grab handles mounted on left and right side of cab for three points of contact upon entering or exiting.

Y N 10. All maintenance task can be completed with out removal of a doghouse. There must be adequate space at rear of engine to remove valve cover, engine brake, run overhead or remove cylinder head if needed.

Y N 11. Dual air horns with snow shield mounted on top of cab and electric horn

Y N 12. Back up alarm – 107 DBA

Y N 13. Sun visors driver and passenger side with sun visor mounted above windshield outside of cab.

Y N 14. Tilt hood
Y N 15. All glass tinted, must have rear window.
Y N 16. Variable windshield wipers with washers.
Y N 17. PTO switch mounted in dash with light to show that it is on. Switch to be provided by OEM and used by body company.

GAUGES
Y N 1. Engine oil pressure, fuel level, primary and secondary air pressure, speedometer with one trip odometer, engine hour meter, voltmeter and water temperature.

LIGHTS
Y N 1. Marker, tail, turn and stop lights to be LED with sealed electrical connections.
Y N 2. Headlights to have high and low beams.
Y N 3. LED strobe lights installed in head lights wired to switch in cab on ignition power.

WHEELS
Y N 1. 8.25-inch wheel, hub piloted, and severe service.
Y N 2. All hubs to be iron

TIRES
Y N 1. 11R x22.5, 14 ply
Y N 2. Street tread on front and rear axles.
Y N 3. One wheel and street tread tire for spare.

EXHAUST SYSTEM
Y N 1. Vertical exhaust with vertical tailpipe, and stack guard. Maximum height is 6 inches above the cab of vehicle.

PAINT
Y N 1. Cab, hood, and patch body to be standard production color nearest “fawn Metallic C8226A” urethane paint.
Y N 2. Frame to be black.
Y N 3. Front bumper to be grey, black or silver with orange maker poles mounted on both ends.
Y N 4. Wheels to be painted white.
SAFETY EQUIPMENT
Y N 1. 10-pound fire extinguisher. (A, B, C mounted in cab before delivery)
Y N 2. One set of emergency warning triangles mounted in cab before delivery.
Y N 3. First aid kit mounted in cab before delivery.

TWO WAY RADIO
Y N 1. Dealer shall furnish install, and program 2-way radio, 45 watt and 3dB gain antenna that is narrow band capable, Motorola XPR5350 digital or approved equal programmed with the following channels: Street and Alley repeater RX: 152.975 PL 156.7 TX: 159.555 PL 156.7 and Street and Alley TX & RX: 158.76000 PL 156.7.

MANUALS
Y N 1. 1 complete set of service manuals
Y N 2. 1 complete set of engine service manuals
Y N 3. 1 complete set of electrical and wiring schematic manuals
Y N 4. 2 operation and maintenance manuals
Y N 5. D.O.T. certification, to include sticker and Vin # on lower edge on both cab doors.

TRAINING
Y N 1. Training on use of the computer program and software with a minimum of one-year subscription for software and online support to be with vehicle at time of delivery for engine, transmission, and ABS system.

ELECTRONIC PROGRAMMING FOR ENGINE AND TRANSMISSION
Y N 1. Engine regeneration for emissions
   a. Engine should regen at idle.
   b. Engine should regen in PTO mode.
   c. Engine should be programmed for in town driving operation at City of Cheyenne, Wyoming altitude.
   d. All the latest software updates must be done on vehicle before delivery
WARRANTY
Y N 1. Two-year warranty and 100,000 miles on complete unit and free towing while under warranty. This must cover parts and labor and are not prorated.

TITLE
Y N 1. Title must be made out to the City of Cheyenne, 2101 O’Neil Ave. Cheyenne, Wy 82001 and delivered with the vehicle to the City Fleet Maintenance Shop, 2731 Old Happy Jack Rd, Cheyenne, Wy.

ADDITIONAL BID OPTIONS
Bidders shall provide a price option for the following items. Bidders shall not include the cost of this line item option in their Bid Guarantee. Please provide pricing, on Page 2 of this bid.

ABI 1. Extended warranty for engine and aftertreatment for 5 years.
ABI 2. Back up sensors.
MINIMUM SPECIFICATIONS FOR NEW AUGER DISPENSED PATCH BODY MODEL THERMO-LAY UD 625-120 WITH ROLLER AND LIFT FOR ROLLER OR APPROVED EQUAL.

DIMENSIONS
Y N 1. Body 142 L x 78 W x 43 H
Y N 2. Height above ground 98
Y N 3. Cab to trunnion required 138
Y N 4. Wheel base 204
Y N 5. Body weight empty 7,220

WEIGHT
Y N 1. Body weight empty 7,220
Y N 2. Empty front axle weight 6,965
Y N 3. Loaded front axle weight 7,940
Y N 4. Empty rear axle weight 9,450
Y N 5. Loaded rear axle weight 33,875
Y N 6. Meets federal DOT single axle 19,875

MAIN BODY
Y N 1. Hopper capacity 6.25 cubic yards
Y N 2. Insulation thickness 2 inches
Y N 3. Insulation type High Temperature Polystyrene
Y N 4. Exterior insulation skin type Bolted, 16 Gauge Steel
Y N 5. Body construction 3/16 HR Plate
Y N 6. Hopper slope 45°
Y N 7. Tool box location Built-In Left Side
Y N 8. Tool box size 102 L x 22 D x 8 H

LIGHTING SYSTEM
Y N 1. System type Sealed
Y N 2. Light type LED
Y N 3. Number of lights 13
Y N 4. Number of large stop, turn, tail 4
Y N 5. Number of red clearance lights 7
Y N 6. Number of amber clearance lights 4
Y N 7. Includes common junction box
Y N 8. Replaceable LEDs for ALL
Y N 9. No splices or tees
Y N 10. 2 front and 2 rear work lights

**DISPENSING SYSTEM**
Y N 1. Auger-screw conveyor dispensing system
Y N 2. Auger pipe size and thickness 2" SCH XX - Heavy
Y N 3. Conveyor size 6" diameter - 3" Flights
Y N 4. Conveyor to be hard surfaced
Y N 5. Two conveyor bearings
Y N 6. Conveyor drive mechanism hydraulic motor
Y N 7. Delivery chute degree of pivot 120°
Y N 8. Auger trough liner made of 3/16" T1 Plate

**CONVEYOR DRIVE MOTOR**
Y N 1. Conveyor drive motor 2 speed
Y N 2. Conveyor drive motor to be automatic
Y N 3. Conveyor drive reversible
Y N 4. Speeds & torque for conveyor drive motor 7,800 Inch/Pound & 120 RPM to 3,700 Inch/Pound & 240 RPM

**HEATING SYSTEM**
Y N 1. Main body heat system type Radiant heat transfer oil
Y N 2. Heat transfer oil capacity 120 gallons
Y N 3. Operating hours heat source Propane burner
Y N 4. Non-operating hours heat source 9 KW electric heater
Y N 5. Two thermostats used to control heat
Y N 6. Digital 3/4” display Radiant oil temperature thermometer type
Y N 7. Horizontal fuel container frame mounted
Y N 8. 38 gallons fuel container capacity
Y N 9. Fuel container indicator location Exterior / drivers' side
Y N 10. Number of propane burners 1
Y N 11. Dual stage burner
Y N 12. 10 ounce & 10 PSI Dual stage pressures
Y N 13. 350,000 @ 10 PSI Burner BTU output
Y N 14. Automatic 12V DC Burner ignition type
Y N 15. Pilot-less ignition
Y N 16. Automatic re-ignition
Y N 17. Burner stops when fluid is dispensed
Y N 18. Digital 3/4" display thermostat
Y N 19. High temperature, loss of flame, fluid dispensing Safety shut-offs
Y N 20. Conduit throughout method for wiring

**ELECTRIC HEATER**
Y N 1. One electric 9 KW heater 230/240 Voltage single phase
Y N 2. 250° heating capability above ambient temp operated by same thermostat as propane burner
Y N 3. 40 amps, 230/240V AC single phase current used during operation

**THERMOSTAT**
Y N 1. Two thermostats ¾ inch digital display
Y N 2. Thermostat operates both propane burner & electric heater
Y N 3. Includes ability to show actual temperature
Y N 4. Radiant oil temperature thermometer type digital 3/4" display
Y N 5. Radiant oil thermometer location rear drivers’ side

**TEMPERATURE TIMED CONTROL**
Y N 1. Solid state
Y N 2. 24 Hour - 14 Day time length duration
Y N 3. Automatically controls Day Temperature
Y N 4. Automatically controls Night Temperature
Y N 5. Individual Thermostats for Day & Night

**HAND TORCH**
Y N 1. 200,000 heating capability
Y N 2. Driver side rear storage location
Y N 3. ¼ X15’ hose size & length
Y N 4. Two of on-off valves

**EMULSION OIL TANK**
Y N 1. 120-gallon capacity built-in main body passenger side
Y N 2. One-inch tank insulation thickness
Y N 3. 14-gauge steel
Y N 4. Heat transfer oil from main body
Y N 5. Gear pump type in insulated compartment driven by 4.9 CI hydraulic motor with forward and reverse with pump relief.
Y N 6. Cleaning system solvent spray with one valve
Y N 7. Spring loaded hose reel passenger side rear hose 1/2” x 20'
Y N 8. Spray wand size & length 3/8” x 5'”
Y N 9. Safety burner shut-off when pump is operating

**EMULSION OIL PUMP**
Y N 1. Gear driven @ 20 GPM & 75 PSI - 1200 RPM
Y N 2. Safety burner shut-off when pump is operation

**WASTE OIL TANK**
Y N 1. 10-gallon, 16-gauge steel

**CLEANING FLUID SYSTEM**
Y N 1. 10-gallon, 16-gauge steel
Y N 2. 12V DC electric pump for cleaning tools/hopper
Y N 3. Cleaning system hose size & length 1/4” x 20'
ANTI-BRIDGE BAR
Y N 1. Located above the auger screw conveyor
Y N 2. Anti-bridge bar construction 2” SCH 80 pipe
Y N 3. Anti-bridge bar driven by 12 CI hydraulic motor

HYDRAULIC SYSTEM
Y N 1. Hydraulic system type Closed center
Y N 2. Hydraulic pump type Piston driven by PTO
Y N 3. Pump rating 16 GPM @ 2,250 PSI @ 800 RPM (Idle)
Y N 4. 30-gallon hydraulic tank, 16-gauge steel, discharged filtered to 100 microns and suction
        strainer 10 micron and shut off valve.
Y N 5. Sight gauge in tank.
Y N 6. Electric hydraulic control valve bank, sealed solenoid type
Y N 7. Eleven sections in control valve bank with manual over-ride

HYDRAULIC INSULATED DOORS
Y N 1. Quad Bi-fold
Y N 2. 22-inch full open-door height above main body
Y N 3. One-inch thick, high temperature solid polystyrene insulation
Y N 4. Door opening size 52 x 105 v-shaped with continuous piano stainless-steel hinge welded
Y N 5. Door pivot hinge type sealed roller bearing
Y N 6. Number of door pivot hinges 6 / 3 per side
Y N 7. Two door cylinders, center position, interior enclosed, size 2 x 8 x 1 3/8 Rod
Y N 8. Door safety override switch at rear of machine

STROBE LIGHTS
Y N 1. Strobe lights two on cab, two at rear of patch body wired to switch for strobe lights in
        Headlights.

SPOILS BINS
Y N 1. 1.25 CY located on passenger side of patch body, 10-gauge HR plate
Y N 2. Hydraulic bin dumping, loading height 40 inches (truck frame height) above ground
TOOL STORAGE RACK
Y N 1. To hold shovels, rake and broom, located drivers side rear

WATER TANK
Y N 1. 30 gallon mounted behind cab on drivers’ side

SPEAKER
Y N 1. One speaker located at rear of patch body

RELEASE AGENT SYSTEM
Y N 1. Time controlled automatic spray type
Y N 2. 18 gallon controlled from ground level

HYDRAULIC LIFT FOR ROLLER
Y N 1. Hydraulic designed to accommodate Multiquip V305EH vibratory roller compactor
Y N 2. Located at driver’s side rear of patch body
Y N 3. Positive lock in up position.

VIBRATORY ROLLER COMPACTOR
Y N 1. Multiquip V305EH

ACCESSORIES & DATA
Y N 1. 2 operation manuals, 1 Service manual, 1 parts manual, and 1 troubleshooting manual
Y N 2. Training for operators and mechanics upon delivery of accepted truck.