



State of New Mexico
General Services Department
Purchasing Division

Price Agreement Amendment

Awarded Vendor:
3 Vendors

Number: 10-80500-20-16859

Amendment No.: One

Term: December 31, 2020 – December 30, 2021

Ship To:
New Mexico Department of Transportation
Various Locations

Procurement Specialist: Raelynn Lujan

Telephone No.: (505) 670-1561

Email: Raelynn.Lujan@state.nm.us

Invoice:
New Mexico Department of Transportation
As Requested at Time of Order

For questions regarding this contract please
contact:
India Garcia (505) 690-7383

Title: **Dump Bodies, Plows and Spreaders**

This amendment is to be attached to the respective Price Agreement and become a part thereof.

This amendment is issued to reflect the following effective immediately: The prices for (AB) Construction Truck Equipment, LLC and (AC) MCT Industries Inc. are changed according to the tables on the following pages.

Except as modified by this amendment, the provisions of the Price Agreement shall remain in full force and effect.

Accepted for the State of New Mexico

Valerie Paulk
Valerie Paulk, New Mexico State Purchasing Agent

Date: 5/28/2021

x **This Agreement was signed on behalf of the State Purchasing Agent**

JDG :F

(AB) Construction Truck Equipment			
ITEM 1 - Five to Six (5-6) Cubic Yard (CY) Dump Bodies with Central Hydraulic System		Current Price	New Price
Base Price Per Unit - Crysteel, 10 Tipper		\$41,231.00	\$45,354.10
Option A) Electronic spreader controls with modular switching integral console	Add	\$1,060.00	\$1,166.00
Option B) Coal door delete	Deduct	(\$75.00)	(\$75.00)
Option C) Three-sixteenths (3/16) inch thick steel formed tapered spillage boards	Add	\$580.00	\$638.00
Option D) Rear apron delete	Deduct	(\$60.00)	(\$60.00)
Option E) Automatic snow chain system	Add	\$3,310.00	\$3,641.00
Option F) Standard hydraulics in lieu of central hydraulics with hot shift. Power Take Off (PTO) and dump air control and delete all snow removal parts and accessories	Deduct	(\$5,800.00)	(\$5,800.00)
Option G) Electric brake controller	Add	\$520.00	\$572.00
Option H) Heavy-duty weld on steps inside dump body to line up with access ladder	Add	\$240.00	\$264.00
Option I) Dump body to frame lock down assembly for snow removal operations	Add	\$356.00	\$391.60

Option J) Option for behind cab reservoir and frame mounted valve enclosure. Reservoir to be equipped with the following: Basket type filler breather cap three quarter (¾) inch magnetic drain plug. Two (2) inch NPT suction w/ 100-mesh screen type filter w/3 psi bypass. A five (5) inch sight temperature gauge externally mounted internal baffling. A separate return port for case drain line, two (2) inch full flow brass ball valve and an in-tank return line filter. The hydraulic reservoir shall also be equipped with an electric temp/level sending unit to be wired to warning lights mounted in the control console. The valve assembly shall be mounted in weather-tight enclosure. The valve enclosure shall be fabricated of ten (10) and twelve (12) gauge steel. Enclosure shall be designed to not allow humidity to be trapped inside. Valve shall be mounted with all ports coming out the bottom and holes allowing for hose adapter fittings. Enclosure will allow for air lines to enter the front. Valve will be “boxed in” with the cover and not the base. The cover shall be held to the enclosure by four heavy rubber latches. All plumbing shall be external, directly out the bottom of the valve enclosure. All tanks shall be labeled with quantity and type.	Add	\$540.00	\$594.00
Option K) Electric flip tarp system	Add	\$1,400.00	\$1,540.00
Option L) Elliptical ten (10) foot Demolition Rock Body	Add	\$1,425.00	\$1,567.50
Option M) Power high lift tailgate	Add	\$4,030.00	\$4,433.00
Option N) Rear engine mounted hydraulic pump	Add	\$1,490.00	\$1,639.00
Option O) Full electronic central hydraulic system “reportable” which will include all plow and spreader functions	Add	\$7,840.00	\$8,624.00
Option P) High impact plastic full fenders in place of steel	Deduct	(\$51.00)	(\$56.10)
Option Q) Quick release tailgate	Add	No Bid	
Option R) Percentage of Discount for 5-6 CY Dump Bodies with Central Hydraulic System attachments and/or options not listed	%	Remains the same at 10%	
(AB) Construction Truck Equipment			
ITEM 2 - Ten to Twelve (10-12) Cubic Yard Dump Bodies, with Central Hydraulic System		Current Price	New Price
Base Price Per Unit - Crysteel, 14 Tipper		\$46,270.00	\$50,897.00
Option A) Electronic spreader controls with modular switching integral console	Add	\$1,060.00	\$1,166.00
Option B) Coal door delete	Deduct	(\$75.00)	(\$75.00)
Option C) Three-sixteenths (3/16) inch thick steel formed tapered spillage boards	Add	\$625.00	\$687.50

Option D) Rear apron	Delete/Deduct	(\$60.00)	(\$60.00)
Option E) Automatic snow chain system	Add	\$3,310.00	\$3,641.00
Option F) Standard hydraulics in lieu of central hydraulics with hot shift Power Take Off (PTO) and dump air control and delete all snow removal parts and accessories	Delete	(\$5,800.00)	(\$5,800.00)
Option G) Electric brake controller	Add	\$520.00	\$572.00
Option H) Heavy-duty weld on steps inside dump body to line up with access ladder	Add	\$240.00	\$264.00
Option I) Dump body to frame lock down assembly for snow removal operations	Add	\$356.00	\$391.60
Option L) Option for behind cab reservoir and frame mounted valve enclosure. Reservoir to be equipped with the following: Basket type filler breather cap three quarter (¾) inch magnetic drain plug. Two (2) inch NPT suction w/ 100-mesh screen type filter w/3 psi bypass. A five (5) inch sight temperature gauge externally mounted internal baffling. A separate return port for case drain line, two (2) inch full flow brass ball valve and an in-tank return line filter. The hydraulic reservoir shall also be equipped with an electric temp/level sending unit to be wired to warning lights mounted in the control console. The valve assembly shall be mounted in weather-tight enclosure. The valve enclosure shall be fabricated of ten (10) and twelve (12) gauge steel. Enclosure shall be designed to not allow humidity to be trapped inside. Valve shall be mounted with all ports coming out the bottom and holes allowing for hose adapter fittings. Enclosure will allow for air lines to enter the front. Valve will be "boxed in" with the cover and not the base. The cover shall be held to the enclosure by four heavy rubber latches. All plumbing shall be external, directly out the bottom of the valve enclosure. All tanks shall be labeled with quantity and type.	Add	\$540.00	\$594.00
Option M) Electric flip tarp system	Add	\$1,400.00	\$1,540.00
Option N) Elliptical fourteen (14) feet Demolition Rock Body	Add	\$1,890.00	\$2,079.00
Option O) Power high lift tailgate	Add	\$4,030.00	\$4,433.00
Option P) Rear engine mounted hydraulic pump	Add	\$1,490.00	\$1,639.00
Option Q) Full electronic central hydraulic system "reportable" which will include all plow and spreader functions	Add	\$7,840.00	\$8,624.00
Option R) High impact plastic full fenders in place of steel	Deduct	(\$51.00)	(\$56.10)
Option S) Quick release tailgate	Add	No Bid	

Option T) Chip spreader draw bar one and a half (1 1/2) inch solid round bar	Add	\$380.00	\$418.00
Option U) Percentage of Discount for 10-12 CY Dump Bodies with Central Hydraulic System attachments and/or options not listed	%	Remains the same at 10%	
(AB) Construction Truck Equipment			
ITEM 3 - Hopper Type Material Spreader, Five (5) Cubic Yard Capacity		Current Price	New Price
Base Price Per Unit - Swenson, EV100 10-48		\$15,914.00	\$17,027.98
Option A) Material pre-wet system delete five (5) yard capacity	Deduct	(\$500.00)	(\$535.00)
Option B) Material pre-wet system delete ten (10) yard capacity	Deduct	(\$500.00)	(\$535.00)
Option C) Stainless steel unit five (5) yard capacity	Add	\$5,500.00	\$5,885.00
Option D) Stainless steel unit ten (10) yard capacity	Add	\$7,085.00	\$7,580.95
Option E) Ten (10) cubic yard box capacity to be built to the same standards and specification listed above with two hundred fifty (250) gallon total per-wet capacity	Add	\$3,450.00	\$3,691.50
Option G) Dual auger conveyor system w/safety devices, five (5) yard capacity	Add	\$4,410.00	\$4,718.70
Option I) Dual auger conveyor system w/safety devices, ten (10) yard capacity	Add	\$4,466.00	\$4,778.62
Option J) Adjustable legs constructed from structural support tubing for five (5) yard capacity	Add	\$3,640.00	\$3,894.80
Option K) Adjustable legs constructed from structural support tubing for ten (10) yard capacity	Add	\$4,290.00	\$4,590.30
Option L) Percentage of Discounts for Hopper Type Material Spreader 5 CY Capacity Attachments and/or options not listed	%	Remains the same at 10%	
(AB) Construction Truck Equipment			
ITEM 4 - Snow Plow, Ten (10) Foot, Hydraulic Reverse, Truck Mounted		Current Price	New Price
Base Price Per Unit - Henke, 41Rio-Ect		\$12,359.00	\$12,976.95
Option A) Installation delete	Deduct	(\$200.00)	(\$210.00)
Option B) Twelve (12) foot moldboard	Add	\$870.00	\$913.50
Option C) Twelve (12) foot expressway moldboard	Add	\$1,584.00	\$1,663.20
Option D) Dual mouse ears	Add	\$990.00	\$1,039.50
Option E) Fold down lift arm and cylinder	Add	\$490.00	\$514.50
Option F) Expressway (Alaska type) or approved equal	Add	\$2,020.00	\$2,121.00
Option G) "V"-plow fifty-two (52) inch by eighty-six (86) inch with lift group	Add	\$10,879.00	\$11,422.95
Option H) Mid mount truck plow with hydraulics complete system	Add	\$18,780.00	\$19,719.00

Option I) Front mount truck plow with complete central hydraulics system	Add	\$16,700.00	\$17,535.00
Option K) Ten (10) foot moldboard only	Deduct	(\$7,900.00)	(\$7,900.00)
Option L) Twelve (12) foot moldboard only	Deduct	(\$7,030.00)	(\$7,030.00)
Option M) Shoes delete	Deduct	(\$750.00)	(\$750.00)
Option N) Truck side hitch delete	Deduct	(\$990.00)	(\$990.00)
Option O) Hydraulically driven front mount rotary angle broom ten (10) foot	Add	\$14,555.00	\$15,282.75
Option P) Rotary ice breaker front mount eight (8) foot	Add	\$39,284.00	\$41,248.20
Option Q) Percentage of Discount for Snow Plow ten (10) foot Hydraulic reverse Truck Mounted Attachments and/or options not listed	%	Remains the same at 10%	
(AC) MCT Inc			
ITEM 1 - Five to Six (5-6) Cubic Yard (CY) Dump Bodies with Central Hydraulic System		Current Price	New Price
Base Price Per Unit - Galion Godwin, 49OU-10		\$42,850.50	\$51,420.60
Option A) Electronic spreader controls with modular switching integral console	Add	\$5,900.00	\$7,080.00
Option B) Coal door delete	Deduct	N/A	
Option C) Three-sixteenths (3/16) inch thick steel formed tapered spillage boards	Add	\$950.00	\$1,140.00
Option D) Rear apron delete	Deduct	(\$50.00)	(\$60.00)
Option E) Automatic snow chain system	Add	\$3,500.00	\$4,200.00
Option F) Standard hydraulics in lieu of central hydraulics with hot shift Power take off (PTO) and dump air control and delete all snow removal parts and accessories	Deduct	(\$3,360.00)	(\$4,032.00)
Option G) Electric brake controller	Add	\$550.00	\$660.00
Option H) Heavy-duty weld on steps inside dump body to line up with access ladder	Add	\$250.00	\$300.00
Option I) Dump body to frame lock down assembly for snow removal operations	Add	\$350.00	\$420.00

Option J) Option for behind cab reservoir and frame mounted valve enclosure. Reservoir to be equipped with the following: Basket type filler breather cap three quarter (¾) inch magnetic drain plug. Two (2) inch NPT suction w/ 100-mesh screen type filter w/3 psi bypass. A five (5) inch sight temperature gauge externally mounted internal baffling. A separate return port for case drain line, two (2) inch full flow brass ball valve and an in-tank return line filter. The hydraulic reservoir shall also be equipped with an electric temp/level sending unit to be wired to warning lights mounted in the control console. The valve assembly shall be mounted in weather-tight enclosure. The valve enclosure shall be fabricated of ten (10) and twelve (12) gauge steel. Enclosure shall be designed to not allow humidity to be trapped inside. Valve shall be mounted with all ports coming out the bottom and holes allowing for hose adapter fittings. Enclosure will allow for air lines to enter the front. Valve will be “boxed in” with the cover and not the base. The cover shall be held to the enclosure by four heavy rubber latches. All plumbing shall be external, directly out the bottom of the valve enclosure. All tanks shall be labeled with quantity and type.	Add	\$525.00	\$630.00
Option K) Electric flip tarp system	Add	\$1,550.00	\$1,860.00
Option L) Elliptical ten (10) foot Demolition Rock Body	Add	\$5,000.00	\$6,000.00
Option M) Power high lift tailgate	Add	\$2,200.00	\$2,640.00
Option N) Rear engine mounted hydraulic pump	Add	\$650.00	\$780.00
Option O) Full electronic central hydraulic system “reportable” which will include all plow and spreader functions	Add	\$8,000.00	\$9,600.00
Option P) High impact plastic full fenders in place of steel	Deduct	No Bid	
Option Q) Quick release tailgate	Add	No Bid	
Option R) Percentage of Discount for 5-6 CY Dump Bodies with Central Hydraulic System attachments and/or options not listed	%		
(AC) MCT Inc			
ITEM 2 - Ten to Twelve (10-12) Cubic Yard Dump Bodies, with Central Hydraulic System		Current Price	New Price
Base Price Per Unit - Galion Godwin, 53OU-14		\$46,375.00	\$55,650.00
Option A) Electronic spreader controls with modular switching integral console	Add	\$5,900.00	\$7,080.00
Option B) Coal door delete	Deduct	N/A	
Option C) Three-sixteenths (3/16) inch thick steel formed tapered spillage boards	Add	\$950.00	\$1,140.00
Option D) Rear apron	Deduct	(\$56.00)	(\$67.20)

Option E) Automatic snow chain system	Add	\$3,500.00	\$4,200.00
Option F) Standard hydraulics in lieu of central hydraulics with hot shift Power Take Off (PTO) and dump air control and delete all snow removal parts and accessories	Delete	(\$3,360.00)	(\$4,032.00)
Option G) Electric brake controller	Add	\$550.00	\$660.00
Option H) Heavy-duty weld on steps inside dump body to line up with access ladder	Add	\$250.00	\$300.00
Option I) Dump body to frame lock down assembly for snow removal operations	Add	\$375.00	\$450.00
Option L) Option for behind cab reservoir and frame mounted valve enclosure. Reservoir to be equipped with the following: Basket type filler breather cap three quarter (¾) inch magnetic drain plug. Two (2) inch NPT suction w/ 100-mesh screen type filter w/3 psi bypass. A five (5) inch sight temperature gauge externally mounted internal baffling. A separate return port for case drain line, two (2) inch full flow brass ball valve and an in-tank return line filter. The hydraulic reservoir shall also be equipped with an electric temp/level sending unit to be wired to warning lights mounted in the control console. The valve assembly shall be mounted in weather-tight enclosure. The valve enclosure shall be fabricated of ten (10) and twelve (12) gauge steel. Enclosure shall be designed to not allow humidity to be trapped inside. Valve shall be mounted with all ports coming out the bottom and holes allowing for hose adapter fittings. Enclosure will allow for air lines to enter the front. Valve will be "boxed in" with the cover and not the base. The cover shall be held to the enclosure by four heavy rubber latches. All plumbing shall be external, directly out the bottom of the valve enclosure. All tanks shall be labeled with quantity and type.	Add	\$525.00	\$630.00
Option M) Electric flip tarp system	Add	\$1,550.00	\$1,860.00
Option N) Elliptical fourteen (14) feet Demolition Rock Body	Add	\$5,200.00	\$6,240.00
Option O) Power high lift tailgate	Add	\$2,200.00	\$2,640.00
Option P) Rear engine mounted hydraulic pump	Add	\$650.00	\$780.00
Option Q) Full electronic central hydraulic system "reportable" which will include all plow and spreader functions	Add	\$8,000.00	\$9,600.00
Option R) High impact plastic full fenders in place of steel	Deduct	No Bid	
Option S) Quick release tailgate	Add	No Bid	
Option T) Chip spreader draw bar one and a half (1 1/2) inch solid round bar	Add	\$1,150.00	\$1,380.00

Option U) Percentage of Discount for 10-12 CY Dump Bodies with Central Hydraulic System attachments and/or options not listed	%		
(AC) MCT Inc			
ITEM 3 - Hopper Type Material Spreader, Five (5) Cubic Yard Capacity		Current Price	New Price
Base Price Per Unit - Monroe MCV-168-82-54-NM		\$19,100.00	\$21,774.00
Option A) Material pre-wet system delete five (5) yard capacity	Deduct	(\$1,500.00)	(\$1,710.00)
Option B) Material pre-wet system delete ten (10) yard capacity	Deduct	(\$1,500.00)	(\$1,710.00)
Option C) Stainless steel unit five (5) yard capacity	Add	\$7,250.00	\$8,265.00
Option D) Stainless steel unit ten (10) yard capacity	Add	\$8,150.00	\$9,291.00
Option E) Ten (10) cubic yard box capacity to be built to the same standards and specification listed above with two hundred fifty (250) gallon total per-wet capacity	Add	\$3,900.00	\$4,446.00
Option G) Dual auger conveyor system w/safety devices, five (5) yard capacity	Add	\$3,750.00	\$4,275.00
Option I) Dual auger conveyor system w/safety devices, ten (10) yard capacity	Add	\$4,500.00	\$5,130.00
Option J) Adjustable legs constructed from structural support tubing for five (5) yard capacity	Add	\$4,725.00	\$5,386.50
Option K) Adjustable legs constructed from structural support tubing for ten (10) yard capacity	Add	\$5,325.00	\$6,070.50
Option L) Percentage of Discounts for Hopper Type Material Spreader 5 CY Capacity Attachments and/or options not listed	%		
(AC) MCT Inc			
ITEM 4 - Snow Plow, Ten (10) Foot, Hydraulic Reverse, Truck Mounted		Current Price	New Price
Base Price Per Unit - Monroe MP4R10-15CT-10GA		\$11,650.00	\$13,281.00
Option A) Installation delete	Deduct	(\$250.00)	(\$285.00)
Option B) Twelve (12) foot moldboard	Add	\$900.00	\$1,026.00
Option C) Twelve (12) foot expressway moldboard	Add	\$2,500.00	\$2,850.00
Option D) Dual mouse ears	Add	\$1,275.00	\$1,453.50
Option E) Fold down lift arm and cylinder	Add	\$375.00	\$427.50
Option F) Expressway (Alaska type) or approved equal	Add	\$1,350.00	\$1,539.00
Option G) "V"-plow fifty-two (52) inch by eighty-six (86) inch with lift group	Add	No Bid	
Option H) Mid mount truck plow with hydraulics complete system	Add	\$18,842.00	\$21,479.88
Option I) Front mount truck plow with complete central hydraulics system	Add	\$18,842.00	\$21,479.88

Option K) Ten (10) foot moldboard only	Deduct	(\$1,825.00)	(\$2,080.50)
Option L) Twelve (12) foot moldboard only	Deduct	(\$1,850.00)	(\$2,109.00)
Option M) Shoes delete	Deduct	(\$900.00)	(\$1,026.00)
Option N) Truck side hitch delete	Deduct	(\$675.00)	(\$769.50)
Option O) Hydraulically driven front mount rotary angle broom ten (10) foot	Add	N/A	
Option P) Rotary ice breaker front mount eight (8) foot	Add	N/A	
Option Q) Percentage of Discount for Snow Plow ten (10) foot Hydraulic reverse Truck Mounted Attachments and/or options not listed	%		



State of New Mexico General Services Department

Price Agreement

Awarded Vendor:
3 Vendors Awarded- See page 6 for details

Email:
Telephone No.:

Price Agreement Number: 10-80500-20-16859

Payment Terms: Net 30

F.O.B.: As Requested

Delivery: See page 6

Ship To:
New Mexico Department of Transportation
Various Locations

Procurement Specialist: Raelynn Lujan *RL*

Telephone No.: 505-827-0484

Email: raelynn.lujan@state.nm.us

Invoice:
New Mexico Department of Transportation
As Requested at Time of Order.

For questions regarding this agreement please contact:
India Garcia- (505) 690-7383

Title: **Dump Bodies, Plows and Spreaders**

Term: **December 31, 2020 thru December 30, 2021**

This Price Agreement is made subject to the “terms and conditions” as indicated on subsequent pages.

Accepted for the State of New Mexico

Valerie Paulk

Date: 1/1/2021

Mark Hayden, New Mexico State Purchasing Agent

× This Agreement was signed on behalf of the State Purchasing Agent

State of New Mexico
General Services Department
Purchasing Division
Price Agreement #: 10-80500-20-16859

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Terms and Conditions
(Unless otherwise specified)

1. **General:** When the State Purchasing Agent or his/her designee issues a purchase document in response to the Vendor's bid, a binding contract is created.
2. **Variation in Quantity:** No variation in the quantity of any item called for by this order will be accepted unless such variation has been caused by conditions of loading, shipping, packing or allowances in manufacturing process and then only to the extent, if any, specified in this order.
3. **Assignment:**
 - a. Neither the order, nor any interest therein, nor any claim thereunder, shall be assigned or transferred by the Vendor, except as set forth in Subparagraph 3b or as expressly authorized in writing by the State Purchasing Agent or his/her designee. No such assignment or transfer shall relieve the Vendor from the obligations and liabilities under this order.
 - b. Vendor agrees that any and all claims for overcharge resulting from antitrust violations which are borne by the State as to goods, services, and materials purchased in connection with this bid are hereby assigned to the State.
4. **State Furnished Property:** State furnished property shall be returned to the State upon request in the same condition as received except for ordinary wear, tear and modifications ordered hereunder.
5. **Discounts:** Prompt payment discounts will not be considered in computing the low bid.
6. **Inspection:** Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for nonconformance with specifications shall be removed at the Vendor's risk and expense, promptly after notice of rejection.
7. **Inspection of Plant:** The State Purchasing Agent or his/her designee may inspect, at any reasonable time, the part of the Contractor's, or any subcontractor's plant or place of business, which is related to the performance of this contract.
8. **Commercial Warranty:** The Vendor agrees that the supplies or services furnished under this order shall be covered by the most favorable commercial warranties the Vendor gives for such to any customer for such supplies or services. The rights and remedies provided herein shall extend to the State and are in addition to and do not limit any rights afforded to the State by any other clause of this order. **Vendor agrees not to disclaim warranties of fitness for a particular purpose of merchantability.**
9. **Taxes:** The unit price shall exclude all state taxes.
10. **Packing, Shipping and Invoicing:**
 - a. The State's purchasing document number and the Vendor's name, user's name and location shall be shown on each packing and delivery ticket, package, bill of lading and other correspondence in connection with the shipments. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.
 - b. The Vendor's invoice shall be submitted duly certified and shall contain the following information: order number, description of supplies or services, quantities, unit price and extended totals. Separate invoices shall be rendered for each and every complete shipment.
 - c. Invoices must be submitted to the using agency and NOT the State Purchasing Agent.
11. **Default:** The State reserves the right to cancel all or any part of this order without cost to the State, if the Vendor fails to meet the provisions of this order and, except as otherwise provided herein, to hold the Vendor liable for any excess cost occasioned by the State due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of causes beyond the control and without the fault or negligence of the Vendor, such causes include but are not restricted to, acts of God or the public enemy, acts of the State or Federal Government, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather and defaults of subcontractors due to any of the above, unless the State shall determine that the supplies or services to be furnished by

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General Services Department
Purchasing Division
Price Agreement #: 10-80500-20-16859

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the subcontractor were obtainable from other sources in sufficient time to permit the Vendor to meet the required delivery scheduled. The rights of the State provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.

12. **Non-Collusion:** In signing this bid the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this offer submitted to the State Purchasing Agent or his/her designee.

13. **Nondiscrimination:** Vendor doing business with the State of New Mexico must be in compliance with the Federal Civil Rights Act of 1964 and Title VII of the Act (Rev. 1979) and the Americans with Disabilities Act of 1990 (Public Law 101-336).

14. **The Procurement Code:** Sections 13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation. In addition the New Mexico criminal statutes impose felony penalties for bribes, gratuities and kickbacks.

15. **Items:** All bid items are to be NEW and of most current production, unless otherwise specified.

16. **Payment for Purchases:** Except as otherwise agreed to: late payment charges may be assessed against the user state agency in the amount and under the conditions set forth in Section 13-1-158 NMSA 1978.

17. **Workers' Compensation:** The Contractor agrees to comply with state laws and rules pertaining to Workers' Compensation benefits for its employees. If the Contractor fails to comply with Workers' Compensation Act and applicable rules when required to do so, this Agreement may be terminated by the contracting agency.

18. **Submission of Bid:** Bids must be submitted in a sealed envelope with the bid number and opening date clearly indicated on the bottom left hand side of the front of the envelope. Failure to label bid envelope will necessitate the premature opening of the bid in order to identify the bid number.

19. **Contractor Personnel:** Personnel proposed in the Contractor's written bid to the Procuring Agency are considered material to any work performed under this Price Agreement. Once a Purchase Order or contract has been executed, no changes of personnel will be made by the Contractor without prior written consent of the Procuring Agency. Replacement of any Contractor personnel, if approved, shall be with personnel of equal ability, experience, and qualifications. The Contractor will be responsible for any expenses incurred in familiarizing the replacement personnel to insure their being productive to the project immediately upon receiving assignments. Approval of replacement personnel shall not be unreasonably withheld. The Procuring Agency shall retain the right to request the removal of any of the Contractor's personnel at any time.

20. **Subcontracting:** The Contractor shall not subcontract any portion of the Price Agreement without the prior written approval of the Procuring Agency. No such subcontracting shall relieve the Contractor from its obligations and liabilities under this Price Agreement, nor shall any subcontracting obligate payment from the Agency.

21. **Records and Audit:** The Contractor shall maintain detailed time and expenditure records that indicate the date, time, nature, and cost of services rendered during this Price Agreement's term and effect, and retain them for a period of three (3) years from the date of final payment under this Price Agreement. The records shall be subject to inspection by the Agency, State Purchasing Division, Department of Finance and Administration, and for Information Technology contracts, State Chief Information Officer. The Agency shall have the right to audit billings, both before and after payment. Payment for services under this Price Agreement shall not foreclose the right of the Agency to recover excessive or illegal payments.

22. **Subcontracts:** The foregoing requirements for Contractor Personnel, Subcontracting, and Audit shall be inserted into all subcontracts from the prime contractor to the subcontractor.

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New Mexico Employees Health Coverage

A. If Contractor has, or grows to, six (6) or more employees who work, or who are expected to work, an average of at least 20 hours per week over a six (6) month period during the term of the contract, Contractor certifies, by signing this agreement, to have in place, and agrees to maintain for the term of the contract, health insurance for its New Mexico Employees and offer that health insurance to its New Mexico Employees if the expected annual value in the aggregate of any and all contracts between Contractor and the State exceeds \$250,000 dollars.

B. Contractor agrees to maintain a record of the number of its New Mexico Employees who have (a) accepted health insurance; (b) declined health insurance due to other health insurance coverage already in place; or (c) declined health insurance for other reasons. These records are subject to review and audit by a representative of the state.

C. Contractor agrees to advise all of its New Mexico Employees of the availability of State publicly financed health care coverage programs by providing each of its New Mexico Employees with, as a minimum, the following web site link to additional information: <https://bewellnm.com>.

D. For purposes of this Paragraph, the following terms have the following meanings:

- (1) "New Mexico Employee" means any resident of the State of New Mexico employed by Contractor who performs the majority of the employee's work for Contractor within the State of New Mexico, regardless of the location of Contractor's office or offices; and
- (2) "offer" means to make available, without unreasonable restriction, enrollment in one or more health coverage plans and to actively seek and encourage participation in order to achieve the goals of Executive Order 2007-049. This could include State publicly financed public health coverage programs such as *Insure New Mexico!*

Department Price Agreement

Article I – Statement of Work

Under the terms and conditions of this Price Agreement, the using agency may issue orders for items and/or services described herein.

The terms and conditions of this Price Agreement shall form a part of each order issued hereunder.

The items and/or services to be ordered shall be listed under Article IX – Price Schedule. All orders issued hereunder will bear both an order number and this Price Agreement number. It is understood that no guarantee or warranty is made or implied by either the New Mexico State Purchasing Agent or the user that any order for any definite quantity will be issued under this Price Agreement. The Contractor is required to accept the order and furnish the items and/or services in accordance with the articles contained hereunder for the quantity of each order issued.

Article II –Term

The term of this Price Agreement for issuance of orders shall be as indicated in specifications.

Article III –Specifications

Items and/or services furnished hereunder shall conform to the requirements of specifications and/or drawings applicable to items listed under Article IX - Price Schedule. Orders issued against this schedule will show the applicable price agreement item(s), number(s), and price(s); however they may not describe the item(s) fully.

Article IV – Shipping and Billing Instructions

Contractor shall ship in accordance with the instructions of this form. Shipment shall be made only against specific orders which the user may place with the contractor during the term indicated in Article II – Term. The Contractor shall enclose a packing list with each shipment listing the order number, price agreement number and the commercial parts number (if any) for each item. Delivery shall be made as indicated on page 1. If vendor is unable to meet stated delivery the State Purchasing Agent must be notified.

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Article V - Termination

The Agency may terminate this Agreement for convenience or cause. The Contractor may only terminate this Agreement based upon the Agency's uncured, material breach of this Agreement. Contractor shall give Agency written notice of termination at least thirty (30) days prior to the intended date of termination, which notice shall (i) identify all the Agency's material breaches of this Agreement upon which the termination is based and (ii) state what the Agency must do to cure such material breaches. Contractor's notice of termination shall only be effective (i) if the Agency does not cure all material breaches within the thirty (30) day notice period or (ii) in the case of material breaches that cannot be cured within thirty (30) days, the Agency does not, within the thirty (30) day notice period, notify the Contractor of its intent to cure and begin with due diligence to cure the material breach. Termination of this Contract, however, shall not affect any outstanding orders. This provision is not exclusive and shall not waive other rights and remedies afforded either party in the event of breach of contract or default. In such instances the contract may be cancelled effective immediately.

Article VI – Amendment

This Price Agreement may be amended by mutual agreement of the New Mexico State Purchasing Agent or his/her designee and the Contractor upon written notice by either party to the other. An amendment to this Price Agreement shall not affect any outstanding orders issued prior to the effective date of the amendment as mutually agreed upon, and as published by the New Mexico State Purchasing Agent or his/her designee. Amendments affecting price adjustments and/or the extension of a price agreement expiration date are not allowed unless specifically provided for in the bid and price agreement specifications.

Article VII – Issuance or Orders

Only written signed orders are valid under this Price Agreement.

Article VIII – Packing (if applicable)

Packing shall be in conformance with standard commercial practices.

Article IX – Price Schedule

Prices as listed in the price schedule hereto attached are firm.

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Awarded Vendors:

(AA) 0000045857
Clark Truck Equipment Co.
PO Box 3483
Albuquerque, NM 87190
(505) 880-8222
Kevin@CTE-NM.com

Delivery: Per Terms

(AB) 0000094627
Construction Truck Equipment, LLC
PO Box 16020
Albuquerque, NM 87191
(505) 292-8018
dfrederick747@gmail.com

Delivery: As Required

(AC) 0000135408
MCT Industries Inc.
7451 Pan American Frwy. NE
Albuquerque, NM 87109
(505) 345-8651
fmaes@mct-ind.com

Delivery: MCT, Inc. Alb. NM

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Specifications:

The purpose of this Invitation to Bid (ITB) is to establish a Price Agreement for Dump Bodies, Plows and Spreaders for the New Mexico Department of Transportation (NMDOT)

Term:

The term of this price agreement shall be for one (1) year from date of award with the option to extend for a period (s) of three (3) additional years, on a year-by-year basis, by mutual agreement of all parties and approval of the New Mexico State Purchasing Agent at the same price, terms and conditions. This price agreement shall not exceed four (4) years.

Successful bidder should be an authorized dealer and be a physically established dealership with parts and service facilities in New Mexico, with Original Equipment Manufacturer (O.E.M.) certified mechanics qualified to repair and service all aspects of engine and powertrain components.

Successful bidder shall provide, at no charge, a complete additional set of replacement filters to include engine crank case, hydraulic, fuel, air induction, air dryer, Diesel Exhaust Fluid (DEF), cab air and coolant if applicable at time of delivery. Provide one (1) laminated filter replacement list and one (1) fluid/oil specification chart for truck and B engine as well as one (1) laminated lube chart with services intervals as well as a laminated Greasing Point Chart illustrating all of the Grease Points for the Unit.

Successful bidder must also provide at least three (3) complete sets of keys with each unit. They will include ignition, tanks, toolboxes and other locking mechanisms.

Provide one (1) technical manual (DVD or flash drive if available), one (1) parts book (DVD or flash drive if available) and one (1) operator's manual with each unit delivered.

Dealer preparation, conditioning and full service is required prior to delivery. Fuel tanks shall be filled to full capacity. Parameters for engine shutdown system shall be tested prior to delivery. Dealer shall provide pre-delivery inspection forms prior to the ordering agency's inspections.

Fuel and DEF tank, as well as, all other fluid reservoirs must be filled to full capacity. All fluid reservoirs and tanks are to be labeled with quantity and type.

Delivery:

Deliver FOB to dealer's place of business within the state of New Mexico. In the event that there are no dealers or manufacturing facilities located in New Mexico then delivery will be determined by the NMDOT.

Escalation/De-escalation Clause:

In the event of a product cost increase, an escalation request will be reviewed by this office and approved by State Purchasing on an individual basis. Please be aware this measure is not intended to allow any increase in profit margin, only to compensate for an actual cost increase. Price decreases as well shall apply. If the vendor's prices are reduced for any reason, users shall receive the benefit of such reductions. Price increases and/or decreases will not be retroactive to orders already in-house or back-ordered. Orders will be filled at the price in effect of the date of the receipt of the order by the awarded vendor.

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All requests for price increases must include the following information from the vendor:

- 1) Agreement Item Number
- 2) Current Item Price
- 3) Proposed New Price
- 4) Percentage of Increase
- 5) Mill/Supplier Notification of price increase indicating percentage of increase including reason for increase

For escalations, awarded vendor must also supply a current Letter from the Manufacture addressed to the vendor. The letter must state that they are increasing the price from the factory to the vendor, as well as the reason for the increase. For a price decrease, a letter from the vendor will be sufficient.

The NMDOT upon review of an escalation or decrease request may require additional supporting documentation prior to providing a written recommendation to the SPD. Final determination on the approval or disapproval of the escalation or decrease request will be made by SPD.

Method of Award:

Award will go to the lowest responsible bidder meeting minimum specifications, terms and conditions. The State reserves the right to award to multiple vendors per item.

Awards will be made to meet the best interests of the State of New Mexico.

Bidders may submit a bid response for up to *three* (3) models for each item and are encouraged to do, so long as they meet the minimum specification. NMDOT does not set a limit for exceeding the minimum specifications and welcomes multiple models with different capabilities.

Bidders submitting alternate models must submit additional items sheet(s), (page 38-43) for each alternate.

Bid Review:

NMDOT shall perform a bid analysis of all bids received for this Invitation to Bid, that require the technical expertise of an engineer. This includes a determination of qualification in accordance with the technical standards and requirements of the specifications. The analysis and recommendation for award will be sent to the State Purchasing Division (SPD) for final determination and awarding.

Minimum Requirements:

Intent of Specifications:

The specifications are intended to describe equipment for use by the NMDOT, which will operate efficiently and safely. The design specifications incorporated herein are intended to describe such unit, and to set forth minimal performance parameters required by the State of New Mexico. The State reserves the right to accept minor variances in product design and/or operation offered by bidders if such acceptance is determined to be in the best interest of the State.

Qualified Bidders:

Bids may be accepted from manufacturers and/or factory authorized dealers who are able and willing to provide responsive service to the ordering agency during the warranty period and the extended warranty

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period if required. Bidders must be in a position to offer the lowest cost/highest effectiveness, completely assembled units meeting or exceeding the minimum specifications contained herein.

Inspection of Work:

The ordering bureau within NMDOT shall have access, at any reasonable time, to the bidder's and manufacturer's facilities for the purposes of inspection during periods of manufacture or assembly of the items to be ordered hereunder. The costs associated with such inspection trips shall be borne by NMDOT.

Above noted equipment shall be delivered within one hundred and eighty (180) working days of bidder's receipt of order. If the above noted equipment is to be installed on a separate unit supplied by the user agency, then it shall be delivered within one hundred and eighty (180) working days of bidder's receipt of said unit. In the event of failure of the bidder to deliver in accordance with this requirement, the bidder shall be liable to the user agency and/or the State for late delivery penalties in the amount of \$25.00 per unit per day.

Documented strikes, national emergencies, or acts of God are the only justification for delay in delivery. Acts of God are defined as unusual, sudden, and unexpected manifestations of the forces of nature, the effect(s) of which could not have been prevented by reasonable human foresight, plans, and care.

Certificates, Manuals, and Warranties:

When unit(s) are delivered, the bidder shall provide to the ordering agency (*upon request*):

- a) Documents of Title, (Due upon payment to vendor)
- b) Certificates of Origin, (Due upon payment to vendor)
- c) Warranty and Guarantee Certificates,
- d) Certifications specified in the contract,
- e) Manuals specified in the contract.

Guarantees and Warranties:

Unit(s) furnished hereunder shall be fully warranted (bumper to bumper) on all parts and labor for a minimum of two (2) years. All power train components shall be fully warranted for at least five (5) years and/or twenty five hundred (2,500) hours. In the event that a factory standard warranty exceeds our stipulated warranty, the factory standard warranty shall prevail.

No deductible shall apply during the warranty period.

It is understood that unit(s) offered in response to this request for bids will be of new design. In the event that unforeseen operational problems occur because of new design, the manufacturer shall warrant that it will retrofit at no cost to NMDOT, any improvements developed to correct problems of repeated or early failure in meeting acceptable performance standards for a period of one (1) year from date of delivery.

Hydraulic components furnished hereunder shall be fully warranted on parts and labor for a minimum of two (2) years, or as may otherwise be required under this specification.

Hydraulic Components to Be Covered:

Hydraulic Pumps, Valves, Cylinders, Reservoirs and Controls.

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Servicing:

Unit(s) ordered under this agreement shall be completely serviced and ready for operation upon delivery.

Warranty Repairs:

While the unit(s) provided hereunder are under warranty, all repairs shall be completed within five (5) working days after receipt of unit(s). This period may be extended at the user's option and such extension shall be documented in writing. In the event of failure to perform repairs within five (5) working days and failure to receive approval for time extension, the Vendor shall provide a like unit until repairs are completed. All repairs shall be performed at the Vendor's place of business or other facility of his/her choice. Delivery of unit(s) for repair and all costs associated therewith shall be the user's responsibility.

Parts Availability:

All replacement parts/components required by the ordering agency for repairs of unit(s) shall be provided within five (5) working days during the warranty period. This period may only be extended at the user's option.

In the event of failure to provide parts/components within the stipulated time or receipt of user/owner concurrence for extending this time, the bidder shall provide the replacement parts/components at no cost to the user/owner.

Training:

The Vendor will be responsible for providing a minimum of four (4) hours of service and operator training or as may otherwise be required. Training session format(s), length(s), and location(s) will be mutually agreed to between the seller and purchaser.

Payment or Acceptance Not Conclusive:

Vendor must supply agency with an invoice for payment. No payment made under this agreement shall be conclusive evidence of the performance of the price agreement either wholly or in part, and that no payment made for the delivery of the items in whole or in part shall be construed as an acceptance of defective work or improper materials, nor relieve the Vendor from corrections of the defects. The final acceptance shall not be binding upon the NMDOT or the State, or conclusive, should it subsequently develop the Vendor has furnished inferior items or had departed from the specifications and/or the terms of the agreement. Should such conditions become evident, the ordering agency shall have the right, notwithstanding final acceptance and payment, to cause the item(s) to be properly furnished in accordance with the specifications (and drawings, if any) at the cost and expense of the Vendor.

Order of Preference:

Any references herein to a particular make or model number are intended not to be restrictive, but to set forth an acceptable level of quality and design, equal or better.

Options:

All ordered options shall be installed if applicable.

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**New Mexico Department of Transportation
Minimum Specifications**

Item 001 Specifications:

Five to Six (5-6) Cubic Yard (CY) Dump Bodies with Central Hydraulic System, New current production models

Scope:

This specification describes a five to six (5-6) cubic yard dump body and central hydraulics system to be installed on New Mexico Department of Transportation (NMDOT) provided single axle, cab & chassis trucks, thirty-seven thousand (37,000) pounds Gross Vehicle Weight Rating (GVWR) and a ninety-six (96) inch cab to axle.

***** **DUMP BODY** *****

Body:

Ten (10) foot long contractor-type, not to exceed eight (8) feet six (6) inches in width. Five to six (5-6) cubic yard struck capacity. Inside body width not to be less than eighty-six inches. Continuous welding on entire box and tailgate.

Serial and Fixed Assets (FA) Number:

Serial number shall be cut from eight (8) inch plate, inch and a half (1 ½) numbers/letters and welded on front of body under cab shield from the body manufacture.

FA number shall be cut from eight (8) inch plate, inch and a half (1 ½) numbers/letters and bolted and /or welded on front of body under cab shield from the body manufacture as well as the upper left hand corner of the tailgate.

Sides:

Single piece (no splicing) ten (10) gauge 250 BHN (115,000 psi tensile/100,000 psi yield) steel with one (1) horizontal formed “V” brace on each side and full length dirt shedding lower rails. Dirt shedding boxed top rail with provisions for six (6) inch spillage boards.

Spillage Boards:

Six (6) inch by two (2) inch by three-sixteenths (3/16) inch thick rectangular tubing capped at each end. Welded to mounting plates and skip welded to boxed top rail. Tapered from the bonnet to the rear of the bed.

Chock Block Holders:

Unit shall be equipped with chock block holders to fit triangular type standard ten (10) inches long, eight (8) inches wide and six (6) inches in height chock blocks mounted to the right (passenger) rear side of the dump body.

Rear:

Dirt shedding full depth rear corner posts constructed from three-sixteenths (3/16) inch hi-tensile steel. Provisions for two (2) oval lights on each corner post. Completely sealed corner post bottom openings with steel plates and single hole for light wiring. Full width rear bolster constructed from three sixteenths (3/16)

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inch thick hi-tensile steel and welded to corner posts. Provisions for three (3) round marker lamps. Rear apron needs to be pre-drilled for future installation and apron must be delivered with unit with all required mounting hardware.

Front:

Single piece (no splicing) ten (10) gauge 230 BHN (115,000 psi tensile/100,000 psi yield) steel. Three (3) shovel holders constructed from two (2) inch x two (2) inch x twelve (12) inches square tubing installed between cab and front of dump body.

Floor:

Single piece (no splicing) one quarter (1/4) inch thick ar400f (180,000 psi tensile/145,000 psi yield) steel with one quarter (1/4) inch thick 230 BHN (115,000 psi tensile/100,000 psi yield) steel floor-to-side radius, continuously welded.

Tailgate:

Ten (10) gauge 230 BHN (115,000 psi tensile/100,000 psi yield) steel with six (6) dirt shedding boxed panels. Double-acting top and bottom. Twelve (12) inch by twelve (12) inch coal door mounted in lower center of tailgate. Corner post upper hinges shall be dual five eighths (5/8) inch thick hi-tensile steel plates. Tailgate hinge plates shall be one and one quarter (1-1/4) inch thick flame cut hi-tensile steel plate. Upper hinge pins shall be one and one-quarter (1 1/4) inch diameter hardened steel roll pins with grease zerks and secured with chains to corner post. Lower hooks shall be flame cut steel with one and one-quarter (1 1/4) inch diameter hardened steel roll pins. Three eighths (3/8) inch grade forty-three (43) tailgate chains to secure and allow adjustment of tailgate in both hinged positions with dual heavy-duty chain adjustable three eighths (3/8) inch thick steel "banjo" type eyes welded on each side of corner posts (adjustment openings in corner posts not acceptable). Provisions for hanging tail gate chains. Heavy-duty pull/push activated air controlled valve tailgate latch assembly "buyers" (bav020) type (electric actuated valve not acceptable) mounted on center console. Three and one half (3 1/2) inch air tailgate cylinder. Hinged lifting eye constructed from three-quarter inch diameter cold roll welded to center of tailgate. .

Cab Shield:

Eight (8) gauge hi-tensile steel, single piece construction full body width vertical shield with cab guard to extend a minimum of six (6) inches towards the cab. Entire shield shall have rolled upright edges to prevent material spillage on cab and windshield. Provide additional reinforcements on cab shield installation with four (4), quarter (1/4) inch x two (2) inch x two (2) inch structural angle. Bolt on or Continuous welding on front, rear and around reinforcements.

Tarp Cover:

Install a ground operated spring loaded tarp cover for hot/cold aggregates with side arms, tie-down straps, weld on hooks and rear rope looping bracket "Pulltarp" (MA-18pullarm) type system above cab shield.

Spreader Tie Downs:

Four (4) separate four (4) inch weld-on ratchet winch for four (4) inch x ten (10) foot heavy-duty nylon straps with flat metal hooks. Mounted on dirt shedding lower rails (street side). One (1) winch handle to be included.

Understructure:

Western style (cross member less) 230 BHN (115,000 psi tensile/100,000 psi yield) trapezoid long sills continuously welded to body. Dump body serial number shall be welded on long sill.

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Access Ladder:

Pull out dump body access ladder on curbside rear corner post. This ladder shall be pull out and telescopic design as to stow and secure when not in use. Height of lowest rung in the lowered position shall not exceed eighteen (18) inches from the ground. Provide grab handles constructed from one (1) inch diameter smooth round stock and non-skid ladder rungs. Three-sixteenths (3/16) inch thick diamond tread steel plate step welded to lower sloping rub rail. Edges and corners of ladder shall be rounded and smoothed.

Hoist/Sub-Frame:

Double acting, National Truck Equipment Association (N.T.E.A.) class fifty (50) hydraulic hoist and sub-frame assembly. Sixteen (16) ton minimum capacity. Chrome plated cylinder rod. All pivot points shall include replaceable wear bushings. Dual body safety props. Entire hoist/sub-frame assembly shall be a removable design with nuts/bolts no welding of sub-frame to truck frame or buck plate. Install sub-frame to truck frame with six (6) three-eighths (3/8) inch thick shear plates. Bolt-mount to truck frame with three (3), five-eighths (3 5/8) inch grade eight (8) flange head bolts per plate with all metal self-locking nuts. Half inch (1/2) thick x four (4) inch x seven (7) inch structural angle rear sub-frame mounting bracket. Weld shear plates continuous to sub-frame, all holes shall be drilled. Shall allow for a fifty (50°) degree dump angle.

***** WIRING/SAFETY LIGHTING REQUIREMENTS *****

Looms/Brackets/Installation:

All wiring shall be properly sized and fitted to each application. Any wiring that requires splicing shall be heat shrink-wrapped. Light-Emitting Diode (LED) light bar shall be wired with a two (2) wire insulated cable that is enclosed in the trapezoid long sill. Half (1/2) inch galvanized pipe conduit shall be utilized to enclose LED light bar wiring from front trapezoid long sill to cab shield. Each end of conduit shall be sealed with half (1/2) inch pipe conduit to pipe thread coupling fitting and half (1/2) inch liquid-tight split loom fitting. Rear LED strobe lights, corner post taillights, and air tailgate air line shall be enclosed in black plastic split looms and secured with metal/rubber insert clamps. Installer is responsible for ensuring that all wiring is done in accordance with truck Original Equipment Manufacturer (OEM) guidelines pertaining to unauthorized splicing/cutting and utilizing OEM weather-tight connectors. No cutting or splicing shall be performed on chassis factory wiring without prior authorization from truck OEM and NMDOT.

Salt Spreader Junction Box:

Weather tight enclosed junction box for all salt spreader lighting functions wired as per NMDOT with schematic mounted behind the cab. Seven (7) way wire insulated cable shall be utilized from junction box to rear seven (7) way salt spreader plug. Secured with metal/rubber insert brackets inside frame rail.

Truck Lighting Junction Box:

Weather tight enclosed junction box for all truck lighting functions mounted behind the cab along salt spreader junction box. Two (2) wire insulated cable shall be utilized from junction box to rear LED strobes. Secured with metal/rubber insert brackets inside frame rail.

Seven Way Plugs:

Drill two (2) holes on buck plate for two (2) electrical sockets. Wire/install one (1) seven (7) way for trailer towing. Wire/install one (1) standard seven (7) way for spreader lighting functions as per NMDOT schematic. Plug functions shall be cut from one-eighth (1/8) inch plate, with three quarter (3/4) inch letters and welded by respective fitting on buck plate. .

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Jumper Cables:

Twenty (20) foot heavy-duty jumper cables with heavy-duty, 01 Gauge color coded terminal clamp ends.

Rear Strobes:

Wire/install to seven (7) way plug, two (2) oval strobe lights, one (1) amber (driver-side), one (1) blue (curb-side) mounted in upper oval light provisions with rubber grommets. Wire strobes to a continuous power circuit and heavy-duty switch. . All lights are to be LED type.

Rear Lighting:

Wire/install to seven (7) way plug two (2) oval (run-stop-turn) lights "Truck-lite" (60002r) type or approved equal in lower oval light provisions (dump body) with rubber grommets. Two (2) recessed red clearance lights at rear of box. Three (3) recessed red clearance lights on rear bolster. All lights are to be LED type. Body builders will attempt to utilize original lighting supplied with cab & chassis and will return to NMDOT any unused lights removed from cab & chassis during installation.

LED Beacon:

Pre-wired to the top of the bonnet for a LED Type light bar. Lights shall be visible from rear above tarp system.

Snow Plow Lights/Brackets:

High intensity combination hi/low beam halogen headlamps/markers/directional lights mounted to heavy-duty one quarter (1/4) inch thick x four (4) inches metal strap brackets mounted to front hood. Bottom of light assembly shall be level with top of tilting hood. Wire snowplow light- directional-marker assembly directly to OEM truck snowplow switch or double throw six (6) pole switch. Wire marker and directional lamps to OEM truck switch. Install wiring in black plastic split looms. Prime and paint brackets with rust resistant black.

Fog Lights:

Dual six (6) inch fog lights Model (520 Ion Crystal) PIAA type or approved equal. OEM weather-tight connectors (no splicing or cutting). Mounting shall be determined by user.

Reflectors:

Install amber reflectors on each side at front of body and red reflectors on each side at rear of body. These reflectors shall be heavy-duty bolt-on type replaceable lens "Truck-Lite" (TL-98006Y amber) (TL-98006R red) type. Pop-in reflectors not acceptable.

Conspicuity Tape:

Install two (2) inch wide diamond grade conspicuity sheeting "Scotchlite" (series 980-32) type red/white or approved equal on dump body. This sheeting shall extend the entire length of the dump body below the sloping rub rails on each side. Install conspicuity sheeting on tailgate as per dot requirements.

Stay Back Fifty (50) Feet:

Nineteen (19) inches wide x eighteen (18) inches in length reflective self-adhesive white sheeting sign with red lettering "stay back 50 feet". First line: "stay back" three (3) inch lettering. Second line: "50" seven (7) inch. Third line: "feet" four-inch. Install at rear on tailgate.

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Backup Alarm:

Single sound level, one hundred twelve (112) decibels, twelve (12) volt, electrical backup alarm "Preco" (380) type to be installed on rear cross member of sub frame. Install wiring in black plastic split looms.

Splash Guards:

Heavy-duty rubber splash guards ahead and behind of rear axle. Twenty-four (24) inches by thirty-six (36) inches solid black, (no dealer or installer advertisement). Front splash guards shall be mounted in metal support brackets that are mounted to a heavy-duty metal bracket welded and braced to sub-frame to provide a stiff horizontal support. Rear splash guards shall be mounted to rear sub-frame/hoist mounting bracket with a three (3) inch x three and one half (3 ½) inch x three sixteenths (3/16) inch thick formed angle that has an integral provision for mounting rear truck lights. Rear splash guards shall have "stay back 50 feet" white embossed lettering. "Stay Back" in three (3) inch text, "50" in seven (7) inch text and "Feet" in four (4) inch text. One and one half (1 1/2) inch galvanized flat straps and four (4) bolts to secure splash guards to mounting bracket.

Tool Box:

Install a twenty-four (24) x eighteen (18) inch underbody toolbox with "T" type twist handle latch (paddle handle not acceptable), lock and key. Mount to frame behind cab. Bolt mount for removal or replacement. Prime and paint tool box/mounting brackets black. .

Buck Plate:

Install a buck plate constructed from three-quarter (3/4) inch thick steel plate continuously welded to rear truck frame with three quarter (3/4) inch thick gussets. Buck plate shall be truck frame full width and have nineteen (19) inches clearance from the bottom to ground level. Lower corners to be tapered. Topside of buck plate shall have a recessed section that is integral to the plate, ten (10) inches wide and four (4) inches deep. This section shall be used for installation of air brake glad hands and spreader hydraulic bulk head fittings. Drill two (2) half (1/2) inch holes and a single one (1) inch hole through mounting plate for installation of spreader line bulkhead fittings. .

Glad Hands:

Bulkhead mounted glad hands for parking/emergency and service brake (color-coded) in recessed area on buck plate. Glad hand covers attached to buck plate with chains.

Auxiliary Glad Hand/Air Hose:

Provide an auxiliary emergency glad hand with twenty-five (25) feet of three eighths (3/8) inch air hose and quick connect/disconnect fitting and blow gun.

Hitch:

Install a twenty-five (25) ton swivel, pintle-type hitch with replaceable neoprene bushings (spring mount not acceptable) "Premier" Type (235). Pintle hitch height to be determined by ordering agency. Install two (2) swivel type "D" rings even with, on each side of the pintle hitch half way between the pintle hitch and the end of the buck plate. Buck plate shall be adequately reinforced to truck frame to maintain pintle hitch capacity. Prime and paint buck plate and ring black.

Front Bumper:

Heavy-duty twelve (12) inch channel bumper. Three (3) piece design with bolt-on removable ends. Center section constructed from five-sixteenths (5/16) inch thick formed "C" channel. Ends of bumper to have

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integral bends to the contour of the chassis hood and cut outs for tow hooks. All edges and corners shall be rounded and smoothed for safety. Bumper shall be mounted to frame with half (1/2) inch by ten (10) inch steel plates continuously welded on each side to include one-quarter (1/4) inch thick horizontal gussets welded to bumper and mounting bracket, and will be double plated on the inside of bumper between frame rails. Bolt-mount with four (4) each per side, five-eighths (5/8) inch grade eight (8) flange head bolts. User to specify bumper clearance from grill. Prime bumper and paint black.

Road Watch System:

Install an outside thermometer with dual digital in-cab gauge display that reads outside ambient temperature and road temperature "Road Watch" (RW-1) type.

***** CENTRAL HYDRAULICS SYSTEM *****

Pump:

The main hydraulic pump shall be an axial piston, pressure and flow compensated load sensing type. The pump shall be cast iron construction and have at least a 4.67 cubic inch displacement at maximum stroke. Mounting shall be Society of Automotive Engineers (SAE) type "C" two (2) bolt mount and driven by one and one quarter (1 1/4) inch round keyed shaft. The inlet of the pump shall be supplied with two (2) inch suction and a non-restrictive full flow elbow fitting. A one (1) inch high pressure full flow ball valve shall be installed on the pressure outlet port of the pump for emergency shutdown. The ball valve shall be secured in the open position for normal operation. Pump shall be rated for at least 4000 psi and 2200 Revolution Per Minute (RPM) continuous duty. All hydraulics must be compatible with the operation of all other items included in the specification, for example; plows, spreaders, etc.

Pump Mounting Bracket:

Constructed from one half (1/2) inch thick steel and gussets. Bolted to truck frame. Shall be mounted in phase with engine crankcase to prevent drive line vibration.

Pump Drive Line:

Pump shall be driven directly off the engine crankshaft through a splined driveline. Driveline shall be "Spicer" type (1310) series U-joints or equal. Key-type slip yokes are not acceptable. Shaft assemblies with set screws are not acceptable. Pump shall be mounted with driveline in phase with offsetting angles at maximum five (5°) degree to prevent driveline vibration.

Valve Bank/Tank/Enclosure:

All valve, tank, and return filter components to be under one rubber latched cover. The removable cover allows for easy maintenance while insuring the longevity of the system components. The system includes thirty-five (35) gallon integral reservoir, gasket less passive seal design for cover, tri-point tank mounting, swing out valve mounting plate with O-ring to JIC valve adapters for easy service of hoses, externally mounted fluid level/temp indicator, filler breather cap, twelve (12) volt oil level/temp sending unit, removable inlet strainer, easy to service built in tank cartridge type return filter, and integral rear exiting hose guard to protect all hoses from damage. Unit to be mounted to frame to allow lid removal when dump body is down. The valve bank shall be stack-type load sensing type mounted in the valve/tank assembly. The valve assembly shall consist of at least a forty (40) gallons per minute (GPM) rated air operated hoist section, a mid-inlet with gauge port and 0-4000 psi gauge, and appropriate sections for the plow and sander functions. The plow functions shall be air operated and rated to at least twenty-five (25) GPM. Electric proportional two-way

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valves shall be provided to control the material spreader functions. The spreader valves must be incorporated in the valve stack assembly. Separate remote spreader valves are not acceptable. All tanks must be labeled with contents and quantity. Must also be equipped with a shut off valve and a site glass and heavy duty cap.

Hydraulic Oil:

Will be AW-36 type.

***** CONTROL VALVE ARRANGEMENT *****

Control Valve:

Control shall consist of four sections arranged according to the manufactures design and clearly labeled. They will be of the following minimum capabilities.

First Section: Inlet with Auger / Spinner

The manifold Inlet Section shall have SAE #16 inlet porting, SAE #20 outlet porting and SAE #4 load sense porting. There shall be a main system relief in the inlet to protect the valve assembly from high pressure factory set at 2500 psi. The inlet will include spool cartridges for Auger (15 GPM) and Spinner (10 GPM). Actuation for Auger and Spinner will be twelve (12) VDC proportional signal transmitted through IP69 rated electrical cables to Deutsch type connectors. .

Second Section: Hoist (Up/Down) Double Acting

The manifold Hoist section shall be double acting (40 GPM). Cylinder functions will be proportionally controlled via pulse width modulated twelve (12) VDC signal transmitted through IP69 cable to Deutsch connector. Hydraforce type cartridge valves shall be used. A and B work port reliefs shall be standard with the "Down" port adjustable to limit hoist down pressure to 500 psi. Load holding shall be standard. Manual overrides shall be spring pull type. .

Third Section: Plow Lift (Up/Down) Single Acting

The manifold Plow Lift section shall be single acting (15 GPM). Cylinder functions will be proportionally controlled via pulse width modulated twelve (12) VDC signal transmitted through IP69 cable to Deutsch connector. Hydraforce type cartridge valves shall be used. A and B work port reliefs shall be standard. Load holding shall be standard. Manual overrides shall be spring pull type.

Fourth Section: Plow Reverse (Left/Right) Double Acting

The manifold Plow Reverset section shall be single acting (15 GPM). Cylinder functions will be proportionally controlled via pulse width modulated twelve (12) VDC signal transmitted through IP69 cable to Deutsch connector. Hydraforce type cartridge valves shall be used. A and B work port reliefs shall be standard. Load holding shall be standard. Manual overrides shall be spring pull type. .

Control Center:

The main control console shall control all hydraulic functions, including the manual or open loop granular control. Control levers shall be dual axis for plow raise, lower, and rotate. Hoist control shall have center lock safety lock. Plow and dump body controls shall be pneumatic feathering type controls and have lighted knobs identifying function and operation of plow and dump body. An air operated switch shall be used to turn on and off the direct liquid function. Four (4) solid state warning lights illuminated in red for low oil, hot oil, filter bypass and body up must be supplied. A buzzer shall also be incorporated for low oil and hot oil warnings.

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The console shall be pre-wired and air lines pre-plumbed with color coded wiring and air lines. Lengths of wire and air hoses are to be determined by the installer at the time of order. The console and spreader control shall have a dash key disconnect feature as to prevent the unit from being left on when the truck is not in use. All external electric connections shall be packed with Dielectric grease. All wiring shall be protected with plastic split looms. The console shall be bolted to the cab floor with a bottom reinforcing plate and all holes drilled through the cab for air lines and wiring shall have rubber grommets and be completely insulated and sealed. Ordering Agency reserves that right to modify the mounting of the Control Console to fit its particular needs.

The electronic spreader control shall include proportional controls for Auger, Spinner and electric Pre-wet spreader functions and shall be integrated into small rugged control box. The controller shall include at least a three (3) inch diagonal color, touch screen with adjustable backlighting. The touchscreen shall be used for calibration only and shall not be needed during normal spreading operations. The controller will have push to blast and push to pass features without interrupting the power. Speedo interrupt shall be installed without unit modification. All controls will be pneumatic and/or electric depending on the manufactures design requirements.

Air Controls:

Air controls to be lever-type, conveniently mounted to the right of the operator and have nomenclature to identify control valve operations. Hoist control shall have center detent to prevent accidental dumping. Plow control shall be joystick with (+ axis) and have detent for plow float in the down position. Air bonnets shall be integral with valve, no external mounted cylinders. Air controls shall be supplied by valve supplier.

Electro/Hydraulic Spreader Control Console:

Electro/hydraulic manual spreader control integral to the control console shall be of solid state design and control. Pulse width modulated valve sections for the conveyer and spinner located outside the truck cab in the main valve control assembly. The control valve sections for the conveyer and spinner shall operate at fifty (50) Hz. The control shall have independent manual control for both the conveyer and spinner and incorporate a blast button for maximum material output.

Control Console:

The electronic manual spreader control shall be incorporated into one (1) integral control console to include spreader controls and light functions. The console and spreader control shall have a dash key disconnect feature as to prevent unit being left on when truck is not in use. All electric connections shall be packed with dielectric grease. Control console shall be mounted on a pedestal at easy access and visual to driver between driver's and passenger's seat. All wiring shall be protected with protective looms.

Control Console Pedestal:

Easy access mounting pedestal constructed of three-sixteenths (3/16) inch (4.826 mm) thick steel. Shall completely enclose all wiring with easy access front and rear panels. Bolted and reinforced to cab floor with top and bottom plates. All holes drilled through cab for cables and wiring shall have rubber grommets.

Body up/Hydraulic Warning Lights:

Provide the following auxiliary lighting functions, "Body Up" light and Hydraulic level/temp warning lights with audible alarm.

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***** **PLUMBING REQUIREMENTS** *****

General:

Hydraulic hoses shall be installed in a manner as not to allow rubbing or contact with moving truck components. Use appropriate routing, required tie down brackets and protective covers on all hydraulic hoses/lines that are exposed to moving components. Plastic tie downs for grouping lines not acceptable. Rubber clamps shall be used for grouping lines and bolted to brackets.

Hose Pressure Rating:

All high pressure hoses shall be rated to four thousand (4,000) psi working pressure and twelve thousand (12,000) psi burst pressure with swivel fittings on both ends.

Fittings:

All fittings, elbows and clamps shall be high pressure hydraulic-type fittings.

Jumper Hoses:

Any pipe that requires short jumper hoses shall be high pressure hoses with hydraulic-type swivel fittings on both ends. Maximum length of twenty-four (24) inches.

Paint:

Prime and paint hydraulic tubing and brackets black.

Air Lines:

Air lines for function controls shall be DOT approved lines.

Suction Hose:

Hydraulic suction hose from tank to pump shall be two (2) inch 100r4 suction hose with hydraulic-type pressed swivel fitting as well as a ball valve at the tank end. Split flange-type with two (2) heavy-duty "T" type hose clamps at pump end. Install inside frame rail with rubber insert, metal mounting brackets maximum of three (3) foot spacing.

Main Control Valve Line:

Hydraulic hose from pump to main control valve shall be one (1) inch high pressure hose with hydraulic-type swivel fittings on both ends. .

Control Drain:

Control drain line from pump to reservoir shall be three-eighths (3/8) inch high pressure hose. Plumbed to reservoir by its own port to allow for no back pressure with hydraulic-type swivel fittings on both ends. .

Hoist Hoses:

Hydraulic hoses to the hoist and jib shall be three quarter (3/4) inch high pressure hose with hydraulic-type swivel fittings on both ends.

Plow Lines:

Hydraulic lines to the plow functions shall be half (1/2) inch hydraulic tubing with swivel fittings on each end. Hoses shall terminate at front of truck with bracket mounted high pressure bulkhead fittings behind bumper with half (1/2) inch high pressure quick disconnects "Gates" type series and dust covers. Install tubes inside frame rail with brackets and rubber insert metal mounting brackets maximum of three (3) foot spacing.

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Spreader Lines:

Hydraulic line from valve to spinner shall be half (1/2) inch schedule eighty (80) high pressure pipe. Hydraulic line from valve to conveyer shall be three quarter (3/4) inch schedule eighty (80) high pressure pipe. Spinner and conveyer shall utilize one (1) schedule forty (40) one (1) inch return pipe that is plumed through the hydraulic filter. Install lines inside frame rail with rubber insert mounting brackets maximum of three (3) foot spacing, terminated at rear of truck with high pressure bulkhead fittings through buck plate. High pressure quick disconnect fittings "Gates" type series. Dust covers for fittings. Spreader functions shall be cut from eight (8) inch plate, with three quarter (3/4) inch letters and welded by respective fitting on buck plate. .

Return Hose:

Hydraulic hose from the valve to the tank shall be one and one quarter (1 1/4) inch 100r1 return hose. Hydraulic-type pressed swivel fittings on both ends. (Clamps not acceptable). .

Quality Control:

Dump body and hydraulics installer shall be responsible to ensure the highest quality of workmanship. Unit shall be inspected and tested by installer for performance to reduce or eliminate call backs. Installer shall clean cab of any debris left behind during install. All parts and/or accessory removed from cab & chassis during installation must be returned to NMDOT upon delivery. Installers will also ensure that all work is in compliance with Body Builders Guidebook provided by OEM.

Inspection:

Dump body and hydraulics installer shall complete one (1) unit and notify equipment purchasing manager for inspection of work, once inspection has been completed and both parties mutually agree, all remaining units must be completed in the same manner. Any deficiencies noted shall prolong the delivery and acceptance of unit(s).

Paint:

Epoxy Primer or powder coat and paint dump body with "DuPont" "Imron" type highway orange industrial polyurethane enamel to match truck. Color must be determined by the Paint Code specific to and provided by the manufacturer of the Cab and Chassis being used for the installation.

Item 002 - Specifications**Ten to Twelve (10-12) Cubic Yard Dump Bodies, With Central Hydraulic System, New current production models****Scope:**

This specification describes a ten (10) to twelve (12) cubic yard dump body and central hydraulics system to be installed on NMDOT supplied tandem axle, cab & chassis trucks with 58,000 pounds GVWR and one hundred thirty-eight inches (138") cab to trunion.

Body:

Fourteen (14) foot contractor-type, not to exceed eight (8) feet-six (6) inches in width. Ten to twelve (10-12) cubic yard struck capacity. Inside body width not to be less than eighty-six (86) inches. Continuous welding on entire box and tailgate.

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Serial and FA Number:

Serial number shall be cut from eight (8) inch plate, inch and a half (1 1/2) numbers/letters and welded on front of body under cab shield from the body manufacture. FA number shall be cut from eight (8) inch plate, inch and a half (1 1/2) numbers/letters and bolted and /or welded on front of body under cab shield from the body manufacture as well as the upper left hand corner of the tailgate.

Sides:

Single piece (no splicing) ten (10) gauge 250 BHN (115,000 psi tensile/100,000 psi yield) steel with one (1) horizontal formed "V" brace on each side and full length dirt shedding lower rails. Dirt shedding boxed top rail with provisions for six (6) inch spillage boards.

Spillage Boards:

Eight (8) inch x two (2) inch by three-sixteenths (3/16) \-inch thick rectangular tubing capped at each end. Welded to mounting plates and skip welded to boxed top rail. Tapered from the bonnet to the rear of the bed.

Chock Block Holders:

Unit shall be equipped with chock block holders to fit triangular type standard ten (10) inches long, eight (8) inches wide and six (6) inches in height chock blocks mounted to the right (passenger) rear side of the dump body.

Rear:

Dirt shedding full depth rear corner posts constructed from three-sixteenths (3/16) inch hi-tensile steel. Provisions for two (2) oval lights on each corner post. Completely sealed corner post bottom openings with steel plates and single hole for light wiring. Full width rear bolster constructed from three-sixteenths (3/16) inch thick hi-tensile steel and welded to corner posts. Provisions for three (3) round marker lamps. Rear apron needs to be pre-drilled for future installation and apron must be delivered with unit with all required mounting hardware.

Front:

Single piece (no splicing) ten (10) gauge 230 BHN (115,000 psi tensile/100,000 psi yield) steel. Three (3) shovel holders constructed from two (2) inch x two (2) inch x twelve (12) inches square tubing installed between cab and front of dump body.

Floor:

Single piece (no splicing) one-quarter (1/4) inch thick ar400f (180,000 psi tensile/145,000 psi yield) steel with one-quarter (1/4) inch thick 230 BHN (115,000 psi tensile/100,000 psi yield) steel floor-to-side radius, continuously welded.

Tailgate:

Ten (10) gauge 230 BHN (115,000 psi tensile/100,000 psi yield) steel with six (6) dirt shedding boxed panels. Double-acting top and bottom. Twelve (12) inch x twelve (12) inch coal door mounted in lower center of tailgate. Corner post upper hinges shall be dual five eights (5/8) inch thick hi-tensile steel plates. Tail gate hinge plates shall be one and one quarter (1 1/4) inch thick flame cut hi-tensile steel plate. Upper hinge pins shall be one and one-quarter (1 1/4) inch diameter hardened steel roll pins with grease zerks and secured with chains to corner post. Lower hooks shall be flame cut steel with one and one-quarter (1 1/4) inch diameter hardened steel roll pins. Three eights (3/8) inch grade forty-three (43) tailgate chains to secure and allow adjustment of tailgate in both hinged positions with dual heavy-duty chain adjustable three eights (3/8) inch

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thick steel “banjo” type eyes welded on each side of corner posts (adjustment openings in corner posts not acceptable). Provisions for hanging tail gate chains. Heavy-duty pull/push activated air controlled valve tailgate latch assembly “buyers” (bav020) type (electric actuated valve not acceptable) mounted on center console. Three and one half (3 1/2) inch air tailgate cylinder. Hinged lifting eye constructed from three-quarter (3/4) inch diameter cold roll welded to center of tailgate. .

Cab Shield:

Eight (8) gauge hi-tensile steel, single piece construction full body width vertical shield with cab guard to extend a minimum of six (6) inches towards the cab. Entire shield shall have rolled upright edges to prevent material spillage on cab and windshield. Provide additional reinforcements on cab shield installation with four (4), quarter (1/4) inch x two (2) inch x two (2) inch structural angle. Bolt on or Continuous welding on front, rear and around reinforcements. .

Tarp Cover:

Install a ground operated spring loaded tarp cover for hot/cold aggregates with side arms, tie-down straps, weld on hooks and rear rope looping bracket “Pulltarp” (MA-18pullarm) type system above cab shield.

Spreader Tie Downs:

Four (4) separate four (4) inch weld-on ratchet winch for four (4) inch x ten (10) foot heavy-duty nylon straps with flat metal hooks. Mounted on dirt shedding lower rails (street side). One winch handle to be included.

Understructure:

Western style (cross member less) 230 BHN (115,000 psi tensile/100,000 psi yield) trapezoid long sills continuously welded to body. Dump body serial number shall be welded on long sill.

Access Ladder:

Pull out dump body access ladder on curbside rear corner post. This ladder shall be pull out and telescopic design as to stow and secure when not in use. Height of lowest rung in the lowered position shall not exceed eighteen (18) inches from the ground. Provide grab handles constructed from one (1) inch diameter smooth round stock and non-skid ladder rungs. Three sixteenths (3/16) inch thick diamond tread steel plate step welded to lower sloping rub rail. Edges and corners of ladder shall be rounded and smoothed.

Hoist/Sub-Frame:

Double acting, N.T.E.A. class fifty (50) hydraulic hoist and sub-frame assembly. Twenty-seven (27) ton minimum capacity. Chrome plated cylinder rod. All pivot points shall include replaceable wear bushings. Dual body safety props. Entire hoist/sub-frame assembly shall be a removable design with nuts/bolts no welding of sub-frame to truck frame or buck plate. Install sub-frame to truck frame with six (6) three-eighths (3/8) inch thick shear plates. Bolt-mount to truck frame with three (3) five-eighths (5/8) inch grade eight (8) flange head bolts per plate with all metal self-locking nuts. Half (1/2) inch thick x four (4) inch x seven (7) inch structural angle rear sub-frame mounting bracket. Weld shear plates continuous to sub-frame, all holes shall be drilled. Shall allow for a fifty (50°) degree dump angle.

***** WIRING/SAFETY LIGHTING REQUIREMENTS *****

Looms/Brackets/Installation:

All wiring shall be properly sized and fitted to each application. Any wiring that requires splicing shall be heat shrink-wrapped. LED light bar shall be wired with a two (2) wire insulated cable that is enclosed in the

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trapezoid long sill. Half (1/2) inch galvanized pipe conduit shall be utilized to enclose LED light bar wiring from front trapezoid long sill to cab shield. Each end of conduit shall be sealed with half (1/2) inch pipe conduit to pipe thread coupling fitting and half (1/2) inch liquid-tight split loom fitting. Rear LED strobe lights, corner post taillights, and air tailgate air line shall be enclosed in black plastic split looms and secured with metal/rubber insert clamps. Installer is responsible for ensuring that all wiring is done in accordance with truck OEM guidelines pertaining to unauthorized splicing/cutting and utilizing OEM weather-tight connectors. No cutting or splicing shall be performed on chassis factory wiring without prior authorization from truck OEM and NMDOT.

Salt Spreader Junction Box:

Weather tight enclosed junction box for all salt spreader lighting functions wired as per NMDOT with schematic mounted behind the cab. Seven (7) way wire insulated cable shall be utilized from junction box to rear seven (7) way salt spreader plug. Secured with metal/rubber insert brackets inside frame rail.

Truck Lighting Junction Box:

Weather tight enclosed junction box for all truck lighting functions mounted behind the cab along salt spreader junction box. Two (2) wire insulated cable shall be utilized from junction box to rear LED strobes. Secured with metal/rubber insert brackets inside frame rail.

Seven Way Plugs:

Drill two (2) holes on buck plate for two (2) electrical sockets. Wire/install one (1) seven (7) way for trailer towing. Wire/install one (1) standard seven (7) way for spreader lighting functions as per NMDOT schematic. Plug functions shall be cut from one-eighth (1/8) inch plate, with three-quarter (3/4) inch letters and welded by respective fitting on buck plate.

Jumper Cables:

Twenty (20) foot heavy-duty jumper cables with heavy-duty, 01 Gauge color coded terminal clamp ends.

Rear Strobes:

Wire/install to seven way plug, two (2) oval strobe lights, one (1) amber (driver-side), one (1) blue (curb-side) mounted in upper oval light provisions with rubber grommets. Wire strobes to a continuous power circuit and heavy-duty switch. . All lights are to be LED type.

Rear Lighting:

Wire/install to seven way plug two (2) oval (run-stop-turn) lights "Truck-lite" (60002r) type or approved equal in lower oval light provisions (dump body) with rubber grommets. Two (2) recessed red clearance lights at rear of box. Three (3) recessed red clearance lights on rear bolster. All lights are to be LED type. Body builders will attempt to utilize original lighting supplied with cab & chassis and will return to NMDOT any unused lights removed from cab & chassis during installation.

LED Beacon:

Pre-wired to the top of the bonnet for a LED Type light bar. Lights shall be visible from rear above tarp system.

Snow Plow Lights/Brackets:

High intensity combination hi/low beam halogen headlamps/markers/directional lights mounted to heavy-duty one-quarter (1/4) inch thick x four (4) inches metal strap brackets mounted to front hood. Bottom of light

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assembly shall be level with top of tilting hood. Wire snowplow light- directional-marker assembly directly to OEM truck snowplow switch or double throw six (6) pole switch. Wire marker and directional lamps to OEM truck switch. Install wiring in black plastic split looms. Prime and paint brackets with rust resistant black.

Fog Lights:

Dual six (6) inch fog lights Model (520 Ion Crystal) PIAA type or approved equal. OEM weather-tight connectors (no splicing or cutting). Mounting shall be determined by user.

Reflectors:

Install amber reflectors on each side at front of body and red reflectors on each side at rear of body. These reflectors shall be heavy-duty bolt-on type replaceable lens "Truck-Lite" (TL-98006Y amber) (TL-98006R red) type. Pop-in reflectors not acceptable.

Conspicuity Tape:

Install two (2) inch wide diamond grade conspicuity sheeting "Scotchlite" (series 980-32) type red/white type or approved equal on dump body. This sheeting shall extend the entire length of the dump body below the sloping rub rails on each side. Install conspicuity sheeting on tailgate as per dot requirements.

Stay Back Fifty (50) Feet:

Nineteen (19) inches wide x eighteen (18) inches in length reflective self-adhesive white sheeting sign with red lettering "stay back 50 feet". First line: "stay back" three (3) inch lettering. Second line: "50" seven-inch. Third line: "feet" four (4) inch. Install at rear on tailgate.

Backup Alarm:

Single sound level, one hundred twelve (112) decibels, twelve (12) volt, electrical backup alarm "preco" (380) type to be installed on rear cross member of sub frame. Install wiring in black plastic split looms.

Splash Guards:

Heavy-duty rubber splash guards ahead and behind of rear axle. Twenty-four (24) inches x thirty-six (36) inches solid black, (no dealer or installer advertisement). Front splash guards shall be mounted in metal support brackets that are mounted to a heavy-duty metal bracket welded and braced to sub-frame to provide a stiff horizontal support. Rear splash guards shall be mounted to rear sub-frame/hoist mounting bracket with a three (3) inch x three and one half (3 1/2) inch x three sixteenths (3/16) inch thick formed angle that has an integral provision for mounting rear truck lights. Rear splash guards shall have "stay back 50 feet" white embossed lettering. "Stay Back" in three (3) inch text, "50" in seven (7) inch text and "Feet" in four (4) inch text. One and one half (1 1/2) inch galvanized flat straps and four (4) bolts to secure splash guards to mounting bracket.

Tool Box:

Install a twenty-four (24) x eighteen (18) inch underbody tool box with "T" type twist handle latch (paddle handle not acceptable), lock and key. Mount to frame behind cab. Bolt mount for removal or replacement. Prime and paint tool box/mounting brackets black.

Buck Plate:

Install a buck plate constructed from three-quarter (3/4) inch thick steel plate continuously welded to rear truck frame with three quarter-inch thick gussets. Buck plate shall be truck frame full width and have nineteen (19) inches clearance from the bottom to ground level. Lower corners to be tapered. Topside of buck plate

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shall have a recessed section that is integral to the plate, ten (10) inches wide and four (4) inches deep. This section shall be used for installation of air brake glad hands and spreader hydraulic bulk head fittings. Drill two (2) half (1/2) inch holes and a single one (1) inch hole through mounting plate for installation of spreader line bulkhead fittings.

Glad Hands:

Bulkhead mounted glad hands for parking/emergency and service brake (color-coded) in recessed area on buck plate. Glad hand covers attached to buck plate with chains.

Auxiliary Glad Hand/Air Hose:

Provide an auxiliary emergency glad hand with twenty-five (25) feet of three eighths (3/8) inch air hose and quick connect/disconnect fitting and blow gun.

Hitch:

Install a twenty-five (25) ton swivel, pintle-type hitch with replaceable neoprene bushings (spring mount not acceptable) "Premier" Type (235). Pintle hitch height to be determined by ordering agency. Install two (2) swivel type "D" rings even with, on each side of the pintle hitch half way between the pintle hitch and the end of the buck plate. Buck plate shall be adequately reinforced to truck frame to maintain pintle hitch capacity. Prime and paint buck plate and ring black.

Front Bumper:

Heavy-duty twelve (12) inch channel bumper. Three (3) piece design with bolt-on removable ends. Center section constructed from five-sixteenths (5/16) inch thick formed "C" channel. Ends of bumper to have integral bends to the contour of the chassis hood and cut outs for tow hooks. All edges and corners shall be rounded and smoothed for safety. Bumper shall be mounted to frame with half (1/2) inch x ten (10) inch steel plates continuously welded on each side to include one-quarter (1/4) inch thick horizontal gussets welded to bumper and mounting bracket, and will be double plated on the inside of bumper between frame rails. Bolt-mount with four (4) each per side, five-eighths (5/8) inch grade eight (8) flange head bolts. User to specify bumper clearance from grill. Prime bumper and paint black.

Road Watch System:

Install an outside thermometer with dual digital in-cab gauge display that reads outside ambient temperature and road temperature "Road Watch" (RW-1) type.

***** CENTRAL HYDRAULICS SYSTEM *****

Pump:

The main hydraulic pump shall be an axial piston, pressure and flow compensated load sensing type. The pump shall be cast iron construction and have at least a 4.67 cubic inch displacement at maximum stroke. Mounting shall be SAE-type "C" two (2) bolt mount and driven by one and one quarter (1 1/4) inch round keyed shaft. The inlet of the pump shall be supplied with two (2) inch suction and a non-restrictive full flow elbow fitting. A one (1) inch high pressure full flow ball valve shall be installed on the pressure outlet port of the pump for emergency shutdown. The ball valve shall be secured in the open position for normal operation. Pump shall be rated for at least 4000 psi and 2200 rpm continuous duty. All hydraulics must be compatible with the operation of all other items included in the specification, for example; plows, spreaders, etc.

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Pump Mounting Bracket:

Constructed from one half (1/2) inch thick steel and gussets. Bolted to truck frame. Shall be mounted in phase with engine crankcase to prevent drive line vibration.

Pump Drive Line:

Pump shall be driven directly off the engine crankshaft through a splined driveline. Driveline shall be "Spicer" type (1310) series U-joints or equal. Key-type slip yokes are not acceptable. Shaft assemblies with set screws are not acceptable. Pump shall be mounted with driveline in phase with offsetting angles at maximum five (5°) degree to prevent driveline vibration.

Valve Bank/Tank/Enclosure:

All valve, tank, and return filter components to be under one rubber latched cover. The removable cover allows for easy maintenance while insuring the longevity of the system components. The system includes thirty-five (35) gallon integral reservoir, gasket less passive seal design for cover, tri-point tank mounting, swing out valve mounting plate with O-ring to JIC valve adapters for easy service of hoses, externally mounted fluid level/temp indicator, filler breather cap, twelve (12) volt oil level/temp sending unit, removable inlet strainer, easy to service built in tank cartridge type return filter, and integral rear exiting hose guard to protect all hoses from damage. Unit to be mounted to frame to allow lid removal when dump body is down. The valve bank shall be stack-type load sensing type mounted in the valve/tank assembly. The valve assembly shall consist of at least a forty (40) GPM rated air operated hoist section, a mid-inlet with gauge port and 0-4000 psi gauge, and appropriate sections for the plow and sander functions. The plow functions shall be air operated and rated to at least twenty-five (25) GPM. Electric proportional two (2) way valves shall be provided to control the material spreader functions. The spreader valves must be incorporated in the valve stack assembly. Separate remote spreader valves are not acceptable. All tanks must be labeled with contents and type. Must also be equipped with a shut off valve and a site glass and heavy duty cap.

Hydraulic Oil:

Will be AW-36 type.

***** CONTROL VALVE ARRANGEMENT *****

Control Valve:

Control shall consist of four sections arranged according to the manufactures design and clearly labeled. They will be of the following minimum capabilities.

First Section: Inlet With Auger / Spinner

The manifold Inlet Section shall have SAE #16 inlet porting, SAE #20 outlet porting and SAE #4 load sense porting. There shall be a main system relief in the inlet to protect the valve assembly from high pressure factory set at 2500 psi. The inlet will include spool cartridges for Auger (15 GPM) and Spinner (10 GPM). Actuation for Auger and Spinner will be twelve (12) VDC proportional signal transmitted through IP69 rated electrical cables to Deutsch type connectors.

Second Section: Hoist (Up/Down) Double Acting

The manifold Hoist section shall be double acting (40 GPM). Cylinder functions will be proportionally controlled via pulse width modulated twelve (12) VDC signal transmitted through IP69 cable to Deutsch connector. Hydraforce type cartridge valves shall be used. A and B work port reliefs shall be standard with the

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“Down” port adjustable to limit hoist down pressure to 500 psi. Load holding shall be standard. Manual overrides shall be spring pull type.

Third Section: Plow Lift (Up/Down) Single Acting

The manifold Plow Lift section shall be single acting (15 GPM). Cylinder functions will be proportionally controlled via pulse width modulated twelve (12) VDC signal transmitted through IP69 cable to Deutsch connector. Hydraforce type cartridge valves shall be used. A and B work port reliefs shall be standard. Load holding shall be standard. Manual overrides shall be spring pull type.

Fourth Section: Plow Reverse (Left/Right) Double Acting

The manifold Plow Reverse section shall be single acting (15 GPM). Cylinder functions will be proportionally controlled via pulse width modulated twelve (12) VDC signal transmitted through IP69 cable to Deutsch connector. Hydraforce type cartridge valves shall be used. A and B work port reliefs shall be standard. Load holding shall be standard. Manual overrides shall be spring pull type.

Control Center:

The main control console shall control all hydraulic functions, including the manual or open loop granular control. Control levers shall be dual axis for plow raise, lower, and rotate. Hoist and Jib controls shall have center lock safety lock. Plow and dump body controls shall be pneumatic feathering type controls and have lighted knobs identifying function and operation of plow and dump body. An air operated switch shall be used to turn on and off the direct liquid function. Four (4) solid state warning lights illuminated in red for low oil, hot oil, filter bypass and body up must be supplied. A buzzer shall also be incorporated for low oil and hot oil warnings. The console shall be pre-wired and air lines pre-plumbed with color coded wiring and air lines. Lengths of wire and air hoses are to be determined by the installer at the time of order. The console and spreader control shall have a dash key disconnect feature as to prevent the unit from being left on when the truck is not in use. All external electric connections shall be packed with Dielectric grease. All wiring shall be protected with plastic split looms. The console shall be bolted to the cab floor with a bottom reinforcing plate and all holes drilled through the cab for air lines and wiring shall have rubber grommets and be completely insulated and sealed. Ordering Agency reserves that right to modify the mounting of the Control Console to fit its particular needs.

The electronic spreader control shall include proportional controls for Auger, Spinner and electric Pre-wet spreader functions and shall be integrated into small rugged control box. The controller shall include at least a three (3) inch diagonal color, touch screen with adjustable backlighting. The touchscreen shall be used for calibration only and shall not be needed during normal spreading operations. The controller will have push to blast and push to pass features without interrupting the power. Speedo interrupt shall be installed without unit modification. All controls will be pneumatic and/or electric depending on the manufactures design requirements.

Air Controls:

Air controls to be lever-type, conveniently mounted to the right of the operator and have nomenclature to identify control valve operations. Hoist control shall have center detent to prevent accidental dumping. Plow control shall be joystick with (+ axis) and have detent for plow float in the down position. Air bonnets shall be integral with valve, no external mounted cylinders. Air controls shall be supplied by valve supplier.

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Electro/Hydraulic Spreader Control Console:

Electro/hydraulic manual spreader control integral to the control console shall be of solid state design and control. Pulse width modulated valve sections for the conveyer and spinner located outside the truck cab in the main valve control assembly. The control valve sections for the conveyer and spinner shall operate at 50 Hz. The control shall have independent manual control for both the conveyer and spinner and incorporate a blast button for maximum material output.

Control Console:

The electronic manual spreader control shall be incorporated into one (1) integral control console to include spreader controls and light functions. The console and spreader control shall have a dash key disconnect feature as to prevent unit being left on when truck is not in use. All electric connections shall be packed with dielectric grease. Control console shall be mounted on a pedestal at easy access and visual to driver between driver's and passenger's seat. All wiring shall be protected with protective looms.

Control Console Pedestal:

Easy access mounting pedestal constructed of three-sixteenths (3/16) inch (4.826 mm) thick steel. Shall completely enclose all wiring with easy access front and rear panels. Bolted and reinforced to cab floor with top and bottom plates. All holes drilled through cab for cables and wiring shall have rubber grommets.

Body up/Hydraulic Warning Lights:

Provide the following auxiliary lighting functions; "Body Up" light and Hydraulic level/temp warning lights with audible alarm.

***** **PLUMBING REQUIREMENTS** *****

General:

Hydraulic hoses shall be installed in a manner as not to allow rubbing or contact with moving truck components. Use appropriate routing, required tie down brackets and protective covers on all hydraulic hoses/lines that are exposed to moving components. Plastic tie downs for grouping lines not acceptable. Rubber clamps shall be used for grouping lines and bolted to brackets.

Hose Pressure Rating:

All high pressure hoses shall be rated to 4,000 psi working pressure and 12,000 psi burst pressure with swivel fittings on both ends.

Fittings:

All fittings, elbows and clamps shall be high pressure hydraulic-type fittings.

Jumper Hoses:

Any pipe that requires short jumper hoses shall be high pressure hoses with hydraulic-type swivel fittings on both ends. Maximum length of twenty-four (24) inches.

Paint:

Prime and paint hydraulic tubing and brackets black.

Air Lines:

Air lines for function controls shall be dot approved lines.

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Suction Hose:

Hydraulic suction hose from tank to pump shall be two-inch 100r4 suction hose with hydraulic-type pressed swivel fitting as well as a ball valve at the tank end Split flange-type with two (2) heavy-duty "T" type hose clamps at pump end. Install inside frame rail with rubber insert, metal mounting brackets maximum of three-foot spacing. .

Main Control Valve Line:

Hydraulic hose from pump to main control valve shall be one-inch high pressure hose with hydraulic-type swivel fittings on both ends.

Control Drain:

Control drain line from pump to reservoir shall be three-eighths (3/8) inch high pressure hose. Plumed to reservoir by its own port to allow for no back pressure with hydraulic-type swivel fittings on both ends.

Hoist Hoses:

Hydraulic hoses to the hoist and jib shall be three quarter inch high pressure hose with hydraulic-type swivel fittings on both ends.

Plow Lines:

Hydraulic lines to the plow functions shall be half (1/2) inch hydraulic tubing with swivel fittings on each end. Hoses shall terminate at front of truck with bracket mounted high pressure bulkhead fittings behind bumper with half (1/2) inch high pressure quick disconnects "Gates" type series and dust covers. Install tubes inside frame rail with brackets and rubber insert metal mounting brackets maximum of three (3) foot spacing.

Spreader Lines:

Hydraulic line from valve to spinner shall be half (1/2) inch schedule eighty (80) high pressure pipe. Hydraulic line from valve to conveyer shall be three quarter (3/4) inch schedule eighty 80 high pressure pipe. Spinner and conveyer shall utilize one schedule forty (40), one (1) inch return pipe that is plumed through the hydraulic filter. Install lines inside frame rail with rubber insert mounting brackets maximum of three (3) foot spacing, terminated at rear of truck with high pressure bulkhead fittings through buck plate. High pressure quick disconnect fittings "Gates" type series. Dust covers for fittings. Spreader functions shall be cut from eight (8) inch plate, with three-fourth (3/4) inch letters and welded by respective fitting on buck plate.

Return Hose:

Hydraulic hose from the valve to the tank shall be one and one quarter inch 100r1 return hose. Hydraulic-type pressed swivel fittings on both ends. (Clamps not acceptable).

Quality Control:

Dump body and hydraulics installer shall be responsible to ensure the highest quality of workmanship. Unit shall be inspected and tested by installer for performance to reduce or eliminate call backs. Installer shall clean cab of any debris left behind during install. All parts and/or accessory removed from cab & chassis during installation must be returned to NMDOT upon delivery. Installers will also ensure that all work is in compliance Body Builders Guidebook provided by OEM.

Inspection:

Dump body and hydraulics installer shall complete one unit and notify equipment purchasing manager for inspection of work .once inspection has been completed and both parties mutually agree, all remaining units

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must be completed in the same manner. Any deficiencies noted shall prolong the delivery and acceptance of unit(s).

Paint:

Epoxy Primer or powder coat and paint dump body with “DuPont” “Imron” type highway orange industrial polyurethane enamel to match truck. Color must be determined by the Paint Code specific to and provided by the manufacturer of the Cab and Chassis being used for the installation.

Item 003 Specifications:

Hopper Type Material Spreader, Five (5) Cubic Yard Capacity, New Current Production Model

Scope

This specification describes a five (5) cubic yard struck capacity, heavy-duty slide-in v-box-type material spreader. Capable of hauling and spreading free flowing granular materials from a minimum width of four (4) feet to a maximum width of forty (40) feet. Consisting of a steel body, discharge/feed conveyer/spinner assembly.

Body:

Five (5) cubic yards struck capacity. The spreader hopper shall be constructed from seven (7) gauge hi-grade steel. The hopper body length shall be not less than ten (10) feet inside length with integral longitudinal overhung for supporting the spinner assembly. The hopper body width shall not exceed eighty-two (82) inches outside width (no exceptions). Hopper body side height shall not exceed forty-eight (48) inches above the mounting surface. A forty five (45°) degree side body slope with front slope to ensure free flow of material to conveyer. Heavy-duty lift hooks at each corner.

V-Body Tie Down Brackets:

Install continuous “rub-rail” type strap three-eighth (3/8) inch x two (2) inches down each side of the spreader.

Side Supports:

Seven (7) gauge formed side supports that extend the full side slope height, spaced on approximately two (2) foot centers.

Cross Members:

Three (3) inch structural channels welded (flat side up) to each side support.

Cross Supports:

Minimum of two (2) internal cross supports.

Inverted “V” Shield:

Heavy-duty, removable inverted “V” shield to protect conveyer.

Material Deflector:

Bolt-on full body width front material deflector constructed from three-sixteenths (3/16) inch thick steel. Material deflector shall be twenty-four (24) inches deep and mounted at a forty five (45°) degree slope with

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five (5) structural angle supports. This deflector minimizes material spillage during loading operations between front of v-body and dump body cab shield.

V-Body Side Rubber Skirting:

Twenty-four (24) inch wide bolt-on full v-body length conveyor-type rubber skirting on right/left v-body sides mounted with a full length heavy-duty metal flat strap bracket over the skirt to ensure that no material can fall between the skirt and body. These skirts shall drape over dump body sides and minimize spillage during loading operations between v-body side and dump body side.

Material Vibrator:

Bolt-on mounted manufacturer's standard material vibrator at front of body wired to junction box with jacketed cable and flexible loom complete with solid state vibrator interrupter that will disable the vibrator in one minute intervals.

"I"/"H" Beam:

Six (6) inch "I" beam or "H" beam providing a longitudinal brace and hinge point for the top screens.

Top Screens:

Manufacturer's standard heavy-duty welded rod square mesh design. Four (4) sections per side with non-freeze hinges. .

Feed Gate and Ruler:

Manufacturer's standard screw-type self-locking steel feed gate and ruler shall be provided at the rear of the hopper to allow for accurate discharge.

Conveyer System:

Manufacturer's standard heavy-duty twenty-four (24) inch conveyer system, chain bar flight-type running longitudinally with the body feeding material to the feed gate opening. The conveyer chain shall be constructed from heat-treated steel, minimum of 21,000 pounds per strand, self-cleaning pintle-type. Cross bars welded on both the top and bottom to every chain link. Replaceable or formed chain shield shall cover the strands exposing only the drag bar to the material. Three-sixteenths (3/16) inch thick steel bolt-on replaceable conveyer floor (flat design). The conveyer shall have one (1) internal front wiper and one (1) external rear wiper.

Power Drive:

The conveyer chain shall be driven through the worm drive gearbox by a low speed, high-torque "Orbital-Type" hydraulic motor. This motor shall be directly coupled to the gearbox and protected from the elements by a cast housing. The worm gear drive shaft shall have provision for a servo sensor, integral with the drive shaft.

Chain Oiler:

One (1) gallon steel reservoir with on/off valve and copper lines to lubricate both sides of conveyer chain, mounted at the rear of the body.

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Gearbox:

Cast iron gearbox shall have hardened and ground bronze gears mounted on a drive shaft and supported on tapered roller bearings. These gears shall be machined cut and mounted in anti-friction sealed bearings and running in oil. The gearbox ratio shall be 25:1.

Sprockets and Drive Shaft:

Drive and idler sprockets shall be manufactured from drop forged steel or cast iron. Sprockets shall be keyed to the drive shaft. Idler shaft shall have two (2) poly rollers of a four and three fourth (4 3/4) inch minimum diameter composed of ultra high molecular weight (UHMW) polyethylene on a two (2) inch stainless steel tube. Both conveyer shafts shall have heavy-duty, dust sealed, self-aligning four (4) bolt spring loaded take-up flange bearings that will allow adjustment of conveyer from the front and the rear when unit is mounted. Adjustment bolt shall be five-eighths (5/8) inch stainless steel. Grease fittings with grease extension lines that will allow greasing the front bearings through the rear when v-body is mounted inside the dump body.

Spinner/Chute Assembly:

Manufacturer's standard poly molded distributor disc assembly with replaceable formed steel fins. Disc shall be mounted on a cast iron replaceable hub connected directly to the motor. The material shall be guided from the conveyer to the distribution disc with a deflector system. This system shall control the spread pattern from left to right by controlling the material as it drops on the disc. The entire spinner/chute assembly shall be manufactured from seven (7) gauge steel and be adjustable in height. Four (4) external adjustable baffles adjustable without the use of tools. The entire spinner/chute assembly shall tip up with the assistance of a hand cable crank to allow cleaning, unloading or storage.

Spinner Bypass Chute:

Bypass system that allows material to flow over the poly molded distributor disc assembly out to the curb-side as to unload material from the hopper body into a windrow for road shoulder maintenance.

Pre-Wetting System:

Install a chemical pre-wetting system with two (2) seventy-five (75) gallon polyethylene tanks with dual baffles mounted to the v-box body side. System design shall not exceed the v-box body width. Complete with corrosion resistant pump mounted in a weather tight corrosion proof housing, polypropylene ball valves, corrosion resistant hoses with a one and one half (1/2) inch cross over hose between tanks. One and one half (1 1/2) inch bottom quick fill installed at the rear. Weather pack wiring harness with jacketed cable and flexible loom wired to junction box. Cab switches to make a complete system. Tank mounting shall not interfere with feed gate hand crank.

Rear Access Ladder:

Heavy-duty folding design, metal access ladder with non-skid ladder rungs, grab handles and heavy-duty rubber latches bolt mounted to spreader body with heavy-duty mounting brackets to rear curb-side. The ladder shall not interfere with the spinner/chute assembly and shall not extend above top screen.

Wiring:

All wiring to include led beacon light, spinner light, pre-wetting system and vibrator shall terminate at the rear in a weather tight, corrosion proof junction box and continued with a heavy-duty, seven(7) wire pig tail extension wired to electrical functions and seven (7) way male plug (provide matching plug and wiring schematic).

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Paint:

Prime and paint with “DuPont” “Imron” type highway orange industrial polyurethane enamel or approved equal to match truck. Color must be determined by the Paint Code specific to and provided by the manufacturer of the Cab and Chassis being used for the installation.

Identification:

Serial and model number shall be stamped from eight (8) inch plate and welded on visible part of frame at the manufacture before paint. Numbers/letters shall be inch and a half (1 1/2) by one (1) inch.

Serial number shall be cut from eight (8) inch plate, inch and a half (1 1/2) numbers/letters and welded on the rear of body.

FA number shall be cut from eight (8) inch plate, inch and a half (1 1/2) numbers/letters and bolted and /or welded on rear of body as well.

Installation:

Shall include but not limited to the following:

- 1) Complete/operational installation of salt spreader to dump truck according to OEM specifications/instructions/hardware.
- 2) Install and align tailgate latch bar
- 3) Weld ratchet winch tie downs on dump bed and prime and repaint.
- 4) Wiring of all electrical functions to truck’s seven (7) way female plug to match spreader and heavy-duty switches in the cab with switch nomenclature.
- 5) Install hydraulic hoses and quick disconnects compatible with truck
- 6) Weld structural runners to cross members and tailgate latch bar.

Quality Control:

Installer shall be responsible to ensure the highest quality of workmanship. Installed plows and spreaders shall be inspected and tested by installer for performance to reduce or eliminate call backs.

Tailgate Latch Bar:

Constructed from three (3) inch x two (2) inch x one quarter (1/4) inch thick rectangular tubing and two (2), one and one-quarter (1 1/4) inch diameter hardened steel roll pins that utilize the lower tailgate clamps of the dump body for securing salt spreader. The cross bar and pin assembly shall be custom fitted to the designated vehicle.

Structural Runners:

Install two (2), three (3) inch structural channel runners on the bottom side of the v-box welded to every cross member and tailgate latch bar.

Hoses/Fittings:

Compatible with truck.

Rear Warning Lights:

Bracket mounted two (2) Blue LED type light flush mount, at top of rear driver’s side of v-body, type or approved equal. Jacketed cable and flexible loom wired to junction box.

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Spinner Light:

Manufacturer's standard bracket mounted, LED type, spinner. Work light (location to be determined by user). Jacketed cable and flexible loom wired to junction box.

Stay Back 50 feet:

Nineteen (19) inches wide x eighteen (18) inches length reflective self-adhesive white sheeting sign with red lettering "Stay Back 50 Feet". First line: "Stay Back" in three (3) inch lettering. Second line: "50" in seven (7) inch. Third line: "Feet" in four (4) inch. Installed on spinner chute.

Item 004 Specifications:**Snow Plow, Ten (10) Foot, Hydraulic Reverse, Truck Mounted, New current production model****Scope:**

This specification describes a ten (10) foot hydraulic reverse snowplow with integral shield and frame mounted quick connect/disconnect truck hitch to be installed on NMDOT trucks.

Moldboard:

Ten (10) foot integral shield moldboard constructed from ten (10) gauge high strength carbon low-alloy sheet steel or three sixteenths (3/16) inch thick A-36 hot rolled steel. Height shall be a minimum of forty-eight (48) inches with eight (8) inch cutting edge. Two (2) thirty-six (36) inch high fluorescent orange moldboard end markers.

Parking Jack:

Crank-type screw jack that stows when not in use.

Cutting Edge:

Manufacturer's standard three (3) piece carbide tipped cutting edges. Two (2), three (3) foot end sections and one (1), four (4) foot center section. ASHTO punched.

Vertical Ribs:

Six (6), one (1) piece manufacturer's standard heavy-duty vertical steel ribs welded to the top/bottom angles and moldboard sheet.

Horizontal Braces:

Manufacturer's standard heavy-duty horizontal steel bracing welded between vertical ribs on entire length of moldboard.

Heel Iron:

Constructed from four (4) inch x four (4) inch x three-quarter (3/4) inch thick structural angle. Three-quarter (3/4) inch thick steel heel iron reinforcements welded to the heel iron between each bolt hole.

Reversing Push Frame:

Manufacturer's standard constructed from heavy structural angle, rolled angle or heavy-duty structural tubing designed to distribute plowing stress across the entire length of the moldboard. The push frame shall be

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attached to a minimum of four (4) points on the moldboard with one and one-quarter (1 1/4) inch diameter cold rolled steel pins.

A-Frame Push Plate:

Manufacturer's standard constructed of heavy-duty double tubular, "I" beam, ship channel or structural angle.

Plow Indicators:

Thirty-six (36) inches vertical height constructed of steel cable.

Hydraulic Reverse:

Two (2) double acting hydraulic reverse cylinders, three (3) inch x ten (10) inch cylinders with stops. Cushion valve.

Trip Mechanism:

Plow shall be equipped with manufacturer's standard heavy-duty dual exposed compression spring trip and rebound assembly that allows the entire moldboard to trip over center and return to original position. Shall have three (3) pitch adjustments for different attack angles.

Shoes:

Two (2) each, heavy-duty screw adjustable skid shoe assemblies (rectangular design) with carbide tip inserts.

Snow Deflector:

Twelve (12) inch bolt-on full length, heavy-duty rubber snow deflector.

Truck Hitch/Lifting Frame:

Heavy-duty frame mounted and reinforced truck hitch assembly. Shall be quick connect/disconnect, self-aligning receiving jaws, and automatic locking design accomplished without driver leaving cab. Hitch design shall allow installation on trucks with and without front integral frame extensions and tilting hoods with stationary grills. The hitch or any of its components shall not interfere with the operation of the tilting hood. Four (4) inch by ten (10) inch moldboard lift cylinder with manufacturer's standard heavy-duty lifting ten (10) frame complete with grade seventy (70) lifting chains and safety latches if applicable.

Parallel Level Lift:

Manufacturer's standard parallel level lift system.

Identification:

Plow shall have a stamped aluminum tag that has serial number, model number, make, year manufactured and weight. Serial and FA number shall also be stamped from eight (8) inch plate and welded on visible part of frame at the manufacture before paint. Numbers/letters shall be inch and a half (1 1/2) x one (1) inch.

Paint:

Prime and paint with "Dupont" "Imron" type highway orange industrial polyurethane enamel or approved equal. Color must be determined by the Paint Code specific to and provided by the manufacturer of the Cab and Chassis being used for the installation.

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Installation:

Shall include but not limited to the following:

1. Complete/operational installation of snow plow hitch to truck according to OEM specifications/instructions/hardware.
2. Hitch to truck frame support brace angles shall not be greater than forty-five (45°) degrees.
3. All welding shall be done with wire feed welder and certified welder.
4. Install hydraulic hoses and quick disconnects compatible with truck.
5. Prime and paint all mounting hardware.

Inspection:

One (1) prototype hitch installation shall be completed and approved by NMDOT personnel before others are installed.

Quality control:

Installer shall be responsible to ensure the highest quality of workmanship. Installed plows and spreaders shall be inspected and tested by installer for performance to reduce or eliminate call backs.

*****End of Specifications*****

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Items Awarded:

<u>Item 001:</u>	Vendor (AA)	Vendor (AB)	Vendor (AC)
Five to Six (5-6) Cubic Yard (CY) Dump Bodies with Central Hydraulic System			
Make offered	DURA Class	Crysteel	Galion Godwin
Model offered	1821 HOIST SL316 BODY	10 TIPPER	49OU-10
Base price per unit	\$46,895.00	\$41,231.00	\$42,850.50
<u>Bid as Options:</u>			
	Add	Add	Add
A) Electronic spreader controls with modular switching integral console	\$4,583.00	\$1,060.00	\$5,900.00
	Deduct	Deduct	Deduct
B) Coal door delete	\$115.00	\$75.00	N/A
	Add	Add	Add
C) Three-sixteenths (3/16) inch thick steel formed tapered spillage boards	\$688.00	\$580.00	\$950.00
	Deduct	Deduct	Deduct
D) Rear apron delete	\$86.00	\$60.00	\$50.00
	Add	Add	Add
E) Automatic snow chain system	No Bid	\$3,310.00	\$3,500.00
	Deduct	Deduct	Deduct
F) Standard hydraulics in lieu of central hydraulics with hot shift. Power take off (PTO) and dump air control and delete all snow removal parts and accessories	\$7,935.00	\$5,800.00	\$3,360.00
	Add	Add	Add
G) Electric brake controller	\$602.00	\$520.00	\$550.00
	Add	Add	Add
H) Heavy-duty weld on steps inside dump body to line up with access ladder	\$258.00	\$240.00	\$250.00
	Add	Add	Add
I) Dump body to frame lock down assembly for snow removal operations	\$401.00	\$356.00	\$350.00
	Add	Add	Add
J) Option for behind cab reservoir and frame mounted valve enclosure. Reservoir to be equipped with the following: Basket type filler breather cap three quarter (3/4) inch magnetic drain plug. Two (2) inch NPT suction w/100-mesh screen type filter w/3 psi bypass. A five (5) inch sigh temperature gauge externally mounted internal baffling A separate return port for case drain line, two (2) inch full flow brass ball valve and an in-tank return line filter The hydraulic reservoir shall also be equipped with an electric temp/level sending unit to be wired to warning lights mounted in the control console.	\$688.00	\$540.00	\$525.00

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The valve assembly shall be mounted in weather-tight enclosure. The valve enclosure shall be fabricated of ten (10) and twelve (12) gauge steel. Enclosure shall be designed to not allow humidity to be trapped inside. Valve shall be mounted with all ports coming out the bottom and holes allowing for hose adapter fittings. Enclosure will allow for air lines to enter the front. Valve will be "boxed in" with the cover and not the base. The cover shall be held to the enclosure by four heavy rubber latches. All plumbing shall be external, directly out the bottom of the valve enclosure. All tanks shall be labeled with quantity and type.			
	Add	Add	Add
K) Electric flip tarp system	\$1,604.00	\$1,400.00	\$1,550.00
	Add	Add	Add
L) Elliptical ten (10) foot Demolition Rock Body	\$1,573.00	\$1,425.00	\$5,000.00
	Add	Add	Add
M) Power high lift tailgate	\$3,094.00	\$4,030.00	\$2,200.00
	Add	Add	Add
N) Rear engine mounted hydraulic pump	\$487.00	\$1,490.00	\$650.00
	Add	Add	Add
O) Full electronic central hydraulic system "reportable" which will include all plow and spreader functions	\$7,562.00	\$7,840.00	\$8,000.00
	Deduct	Deduct	Deduct
P) High impact plastic full fenders in place of steel	None	\$51.00	No Bid
	Add	Add	Add
Q) Quick release tailgate	\$401.00	No Bid	No Bid
	Deduct	Add/Deduct	Add
R) Percentage of Discount for 5-6 CY Dump Bodies with Central Hydraulic System attachments and/or options not listed	10%	10%	

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<u>Item 002:</u>	Vendor (AA)	Vendor (AB)	Vendor (AC)
Ten to Twelve (10-12) Cubic Yard Dump Bodies, With Central Hydraulic System			
Make offered	DURA CLASS	Crysteel	Galion Godwin
Model offered	2824 HOIST HPT316 Body	14 TIPPER	53OU-14
Base price per unit	\$56,007.00	\$46,270.00	\$46,375.00
<u>Bid as options:</u>			
	Add	Add	Add
A) Electronic spreader controls with modular switching integral console	\$4,583.00	\$1,060.00	\$5,900.00
	Deduct	Deduct	Deduct
B) Coal door delete	\$115.00	\$75.00	N/A
	Add	Add	Add
C) Three-sixteenths (3/16) inch thick steel formed tapered spillage boards	\$917.00	\$625.00	\$950.00
	Delete/Deduct	Delete/Deduct	Deduct
D) Rear apron	\$86.00	\$60.00	\$56.00
	Add	Add	Add
E) Automatic snow chain system	No Bid	\$3,310.00	\$3,500.00
	Delete	Delete	Delete
F) Standard hydraulics in lieu of central hydraulics with hot shift PTO and dump air control and delete all snow removal parts and accessories	\$7,935.00	\$5,800.00	\$3,360.00
	Add	Add	Add
G) Electric brake controller	\$602.00	\$520.00	\$550.00
	Add	Add	Add
H) Heavy-duty weld on steps inside dump body to line up with access ladder	\$258.00	\$240.00	\$250.00
	Add	Add	Add
I) Dump body to frame lock down assembly for snow removal operations	\$401.00	\$356.00	\$375.00
	Add	Add	Add
L) Option for behind cab reservoir and frame mounted valve enclosure. Reservoir to be equipped with the following: Basket type filler breather cap three quarter (3/4) inch magnetic drain plug. Two (2) inch NPT suction w/ 100-mesh screen type filter with three (3) psi bypass. A five (5) inch sight temperature gauge externally mounted internal baffling. A separate return port for case drain line, two (2) inch full flow brass ball valve and an in-tank return line filter	\$688.00	\$540.00	\$525.00

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<u>Item 002:</u>	<u>Vendor (AA)</u>	<u>Vendor (AB)</u>	<u>Vendor (AC)</u>
The hydraulic reservoir shall also be equipped with an electric temp/level sending unit to be wired to warning lights mounted in the control console. The valve assembly shall be mounted in weather-tight enclosure. The valve enclosure shall be fabricated of 10 and 12 gauge steel. Enclosure shall be designed to not allow humidity to be trapped inside. Valve shall be mounted with all ports coming out the bottom and holes allowing for hose adapter fittings. Enclosure will allow for air lines to enter the front. Valve will be "boxed in" with the cover and not the base. The cover shall be held to the enclosure by four heavy rubber latches. All plumbing shall be external, directly out the bottom of the valve enclosure. All tanks shall be labeled with quantity and type.			
	Add	Add	Add
M) Electric flip tarp system	\$1,718.00	\$1,400.00	\$1,550.00
	Add	Add	Add
N) Elliptical fourteen (14) feet Demolition Rock Body	\$1,802.00	\$1,890.00	\$5,200.00
	Add	Add	Add
O) Power high lift tailgate	\$525.00	\$4,030.00	\$2,200.00
	Add	Add	Add
P) Rear engine mounted hydraulic pump	\$487.00	\$1,490.00	\$650.00
	Add	Add	Add
Q) Full electronic central hydraulic system "reportable" which will include all plow and spreader functions	\$7,562.00	\$7,840.00	\$8,000.00
	Deduct	Deduct	Deduct
R) High impact plastic full fenders in place of steel	None	\$51.00	No Bid
	Add	Add	Add
S) Quick release tailgate	\$401.00	No Bid	No Bid
	Add	Add	Add
T) Chip Spreader draw bar one and a half (1 ½) inch solid round bar	\$625.00	\$380.00	\$1,150.00
	Deduct	Add/Deduct	Add
U) Percentage of Discount for 10-12CY Dump Bodies with Central Hydraulic System attachments and/or options not listed	10%	10%	

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Item 003:	Vendor (AA)	Vendor (AB)	Vendor (AC)
Hopper Type Material Spreader, Five (5) Cubic Yard Capacity, New Current Production Model (see specifications above)			
Make offered	Henderson	Swenson	Monroe
Model offered	FSH-1	EV100 10-48	MCV-168-82-54-NM
Base price per unit	\$21,038.00	\$15,914.00	\$19,100.00
<u>Bid as Options:</u>			
	Deduct	Deduct	Deduct
A) Material pre-wet system delete five (5) yard capacity	\$2,852.00	\$500.00	\$1,500.00
	Deduct	Deduct	Deduct
B) Material pre-wet system delete ten (10) yard capacity	\$3,604.00	\$500.00	\$1,500.00
	Add	Add	Add
C) Stainless steel unit five (5) yard capacity	\$10,370.00	\$5,500.00	\$7,250.00
	Add	Add	Add
D) Stainless steel unit ten (10) yard capacity	\$15,957.00	\$7,085.00	\$8,150.00
	Add	Add	Add
E) Ten (10) cubic yard box capacity to be built to the same standards and specification listed above with two hundred fifty (250) gallon total per-wet capacity.	\$8,058.00	\$3,450.00	\$3,900.00
	Add	Add	Add
G) Dual auger conveyor system w/safety devices, five (5) yard capacity	\$7,029.00	\$4,410.00	\$3,750.00
	Add	Add	Add
I) Dual auger conveyor system w/safety devices, ten (10) yard capacity	\$12,891.00	\$4,466.00	\$4,500.00
	Add	Add	Add
J) Adjustable legs constructed from structural support tubing for five (5) yard capacity	\$3,526.00	\$3,640.00	\$4,725.00
	Add	Add	Add
K) Adjustable legs constructed from structural support tubing for ten (10) yard capacity	\$3,803.00	\$4,290.00	\$5,325.00
	Deduct	Add/Deduct	Add
L) Percentage of Discounts for Hopper Type Material Spreader 5 CY Capacity Attachments and/or options not listed	10%	10%	

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Item 004:	Vendor (AA)	Vendor (AB)	Vendor (AC)
Snow Plow, Ten (10) Foot, Hydraulic Reverse, Truck Mounted, New current production model (see specifications above)			
Make offered	Henderson	Henke	Monroe
Model offered	10' RSP	41RIO-ECT	MP4R10-15CT-10GA
Base price per unit	\$13,980.00	\$12,359.00	\$11,650.00
Bid as Options:			
	Deduct	Deduct	Deduct
A) Installation delete	\$190.00	\$200.00	\$250.00
	Add	Add	Add
B) Twelve (12) foot moldboard	\$951.00	\$870.00	\$900.00
	Add	Add	Add
C) Twelve (12) foot expressway moldboard	\$2,464.00	\$1,584.00	\$2,500.00
	Add	Add	Add
D) Dual mouse ears	\$1,382.00	\$990.00	\$1,275.00
	Add	Add	Add
E) Fold down lift arm and cylinder	\$634.00	\$490.00	\$375.00
	Add	Add	Add
F) Expressway (Alaska type) or approved equal	\$3,957.00	\$2,020.00	\$1,350.00
	Add	Add	Add
G) "V"-plow fifty-two (52) inch by eighty-six (86) inch with lift group	No Bid	\$10,879.00	No Bid
	Add	Add	Add
H) Mid mount truck plow with hydraulics complete system	\$18,380.00	\$18,780.00	\$18,842.00
	Add	Add	Add
I) Front mount truck plow with complete central hydraulics system	\$18,570.00	\$16,700.00	\$18,842.00
	Deduct	Deduct	Deduct
K) Ten (10) foot moldboard only	\$9,760.00	\$7,900.00	\$1,825.00
	Deduct	Deduct	Deduct
L) Twelve (12) foot moldboard only	\$9,380.00	\$7,030.00	\$1,850.00
	Deduct	Deduct	Deduct
M) Shoes delete	\$1,141.00	\$750.00	\$900.00
	Deduct	Deduct	Deduct
N) Truck side hitch delete	No Bid	\$990.00	\$675.00
	Add	Add	Add
O) Hydraulically driven front mount rotary angle broom ten (10) foot	No Bid	\$14,555.00	N/A

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Item 004:	Vendor (AA)	Vendor (AB)	Vendor (AC)
	Add	Add	Add
P) Rotary ice breaker front mount eight (8) foot	No Bid	\$39,284.00	N/A
	Delete	Add/Delete	Add/Delete
Q) Percentage of Discount for Snow Plow ten (10) foot Hydraulic reverse Truck Mounted Attachments and/or options not listed	10%	10%	

***** 4 Items Awarded Total *****