

**HEAVY DUTY SPREADER
HOPPER TYPE
FOR DUMP BED MOUNTING**

GENERAL: This spreader shall be capable of spreading a uniform pattern at all widths from four feet to forty feet wide, materials such as sand, salt, chips and other like materials. This spreader must be completely assembled, serviced and ready to operate when it is installed in a State owned dump truck. This spreader must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Monroe Model MV-120-82-50, 201, 10/7

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SPREADER: MAKE: Henderson MODEL: WSH-10-201-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>HOPPER BODY:</u>	"V" Type Box, all Welded 201	per spec
<u>DUMP BODY & MOUNTING:</u>		
	10 feet, approx. 5.2 cubic yards capacity	per spec
	4 adjustable hold-down clamps or 2 – 3" x 12" HD ratchet straps	per spec
<u>DISCHARGE CHUTE:</u>	201 stainless steel 10 gauge, rearward end mounts. Adjustable height extension with SS bolts NOTE: Chute to be equipped with diverter Flap to allow unloading material out Front or rear of chute.	per spec
<u>COMPONENTS:</u>	Mounting brackets	per spec

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-06 / 10' Stainless**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	All necessary hardware to be stainless steel	_____ per spec
<u>OVER-ALL-HEIGHT:</u>	50 " above dump bed floor	_____ per spec
<u>OUTSIDE WIDTH:</u>	82" maximum	_____ per spec
<u>SILLS:</u>	201 stainless steel (7 gauge)	_____ per spec
<u>BOTTOM EDGE:</u>		
	Flanged 90°	_____ per spec
	Rest on cross sill supports	_____ per spec
<u>BOTTOM:</u>	201 stainless steel (10 gauge)	_____ per spec
<u>FRONT & REAR:</u>	Rollover lips	_____ per spec
<u>WIPERS:</u>	Front & rear required	_____ per spec
<u>CROSS SILLS:</u>	201 stainless steel welded to sills and side supports (10 gauge)	_____ per spec
<u>SIDE SUPPORTS:</u>	201 stainless steel welded to sides, sills and cross sills (10 gauge)	_____ per spec
<u>SIDES:</u>	201 stainless steel 45°, 2" double crimp top edge (10 gauge)	_____ per spec
<u>END GATES:</u>	201 stainless steel, 2" double crimp top edge (10 gauge)	_____ per spec

**STATE OF OKLAHOMA
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EQUIPMENT SPECIFICATION **15-06 / 10' Stainless**

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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>REAR END GATE:</u>	Welded into position	per spec
<u>LIFTING LOOPS:</u>	4 each, 1 near each outside corner	per spec
<u>FEED GATE ASSEMBLY:</u>	201 stainless steel opening 18"x12" (10 gauge)	per spec
<u>TAILGATE LATCHING DEVICE:</u>	Cross channel with latch pins and mounting brackets.	per spec
<u>CONTROL:</u>	Jack-type with handle on curb side	per spec
<u>GATE OPENING:</u>	201 stainless steel sides (10 gauge)	per spec
<u>CONVEYOR:</u>		per spec
Drag Chain	10-12' conveyor x 24" width self cleaning drag chain.	per spec
Conveyor Drive, Idler & Snubber	All must be self cleaning	per spec
Idler Adjusting Pulleys	Sealed anti-friction bearings	per spec
Gear Box	50.1 worm drive cast iron gearbox or 6:1 spur gear	per spec
Edge Seals	Shall form a labyrinth seal with conveyor bottom edge	per spec

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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>NOTE:</u> Conveyor Bottom	201 stainless steel slatted type (10 gauge)	_____ per spec
Discharge Gate	Adjustable screw jack type	_____ per spec
Feed Gate Opening	Maximum 12" high by 18" wide	_____ per spec
<u>DISTRIBUTOR SPINNER ASSEMBLY:</u>		
Type	Tip-up Style without the use of special tools / with diverter chute	_____ per spec
Controlled Spread	From 4' to 40'	_____ per spec
Baffles	3 section, 201 stainless steel (10 gauge) adjustable	_____ per spec
Disc	201 stainless steel (10 gauge) 20", with 6 SS removable fins	_____ per spec
<u>Warranty:</u> Manufacturer's standard with coverage complete on all components. _____ Yes		
<u>OPTION 1:</u> Screens	Top mounted screens & I-beam	\$ 1,133.00
<u>OPTION 2:</u> Installation	In the state of <u>Oklahoma</u> by a <u>qualified up fitter</u> . To include hoses and quick couplers 1 each, 5602-12-12S, 5601-12-12S, and 5602-16-16S	\$ 1,200.00

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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>OPTION 3:</u> Lights	LED Stop, Tail & Turn Lights including any marker lights needed	\$ 1,107.20
<u>OPTION 4:</u> Grease Fitting	Extended Grease fitting to front of Spreader to grease pillow block without removing spreader from dump body.	\$ 176.00
<u>OPTION 5:</u> Inverted V	Shield to cover pintle chain	\$ 900.67
<u>OPTION 6:</u> SINGLE AUGER CONVEYOR	Auger screw in lieu of pintle chain Note: Screens required	\$ 11,563.30
<u>OPTION 7:</u> Larger Capacity	Increase side height to 62"	\$ 954.67
<u>OPTION 8:</u> Lights 2	Two (2) Strobes Star model 240SFD Installed Upper rear one each side & Two (2) work lights installed one shining on pintle chain and one shining on spinner chute.	\$ 612.20

Total weight of this complete unit: **2175 lbs (approximate)**

2070 lbs approximate

Successful bidder must furnish this unit complete with all components including necessary hardware, hose, couplers, lines, fittings, etc.

NOTE:

Inspection and/or correction of items listed on the inspection and pre-delivery form are considered a part of this specification; also considered part of selling dealer's new equipment preparation and handling cost, if he contracts the new equipment pre-delivery service inspection out to another authorized dealer, the selling dealer is still liable to all terms of the specification and purchase order except for those corrective operations previously

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-06 / 10' Stainless**

02/2010

established as eligible for warranty reimbursement according to the current warranty and policy procedure manual.

Special Requirements:

The successful bidder shall provide to the receiving division, factory spreader specifications and dimensions and request bed dimensions prior to ordering spreaders.

PAINT: (Non Stainless Components Only)

All exposed metal shall be Powder Coated.

Specify color used none- 201SS

WARRANTY: One Year / From date of delivery.

exposed metal-black

SERVICE AND PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- B. Consideration in awarding bids shall be given to parts and service availability.

MANUALS AND PARTS BOOK:

Successful Bidder shall furnish one (1) Operators Instruction Manual for each machine. In addition, one (1) Parts Book and one (1) Repair manual shall be furnished to each Division purchasing one or more machines.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

COMPLIANCE:

Bidder shall furnish a statement in writing on the bid or by attached letter, and in the Vendor's Statement below, if his equipment proposed strictly meets these specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO: _____

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: Dwight D. Anderson DATE: 2/16/2016

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

<p>STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION</p>	<p>15-06 / 10' Stainless</p>
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02/2010

Freight to Total Truck & Trailer included in prices:

WSH-10' 201SS \$9,331.65

**HEAVY DUTY SPREADER
HOPPER TYPE
FOR DUMP BED MOUNTING**

GENERAL: This spreader shall be capable of spreading a uniform pattern at all widths from four feet to forty feet wide, materials such as sand, salt, chips and other like materials. This spreader must be completely assembled, serviced and ready to operate when it is installed in a State owned dump truck. This spreader must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Monroe Model MV-120-82-50, MS, 10/7

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SPREADER: MAKE: Henderson MODEL: WSH-10-Mild-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>HOPPER BODY:</u>	"V" type box, all welded A569 hi-grade steel	<u>per spec</u>
<u>DUMP BODY & MOUNTING:</u>	10 foot, approx. 5.2 cubic yards capacity	<u>per spec</u>
<u>COMPONENTS:</u>	Mounting brackets	<u>per spec</u>
<u>OVER-ALL HEIGHT:</u>	50 inches above dump bed floor	<u>per spec</u>
<u>OUTSIDE WIDTH:</u>	82 inches	<u>per spec</u>
<u>SILLS:</u>	7 gauge steel	<u>per spec</u>
<u>BOTTOM EDGE:</u>	Flanged 90° Rest on cross sill supports	<u>per spec</u>
<u>BOTTOM:</u>	7 gauge steel	<u>per spec</u>

**STATE OF OKLAHOMA
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EQUIPMENT SPECIFICATION 15-06

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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>FRONT & REAR:</u>	Rollover lips	per spec
<u>WIPERS:</u>	Front & rear required	per spec
<u>CROSS SILLS:</u>	HD steel welded to sills and side supports	per spec
<u>SIDE SUPPORTS:</u>	10 gauge steel welded to sides, sills and cross sills	per spec
<u>SIDES:</u>	10 gauge A569 hi-grade steel set 45°, 2" double crimped top edge	per spec
<u>END GATES:</u>	10 gauge A569 hi-grade steel, 2" double crimped top edge	per spec
<u>LIFTING LOOPS:</u>	4 each, 1 near each outside corner	per spec
<u>REAR END GATE:</u>	Welded into position	per spec
<u>FEEDGATE ASSEMBLY:</u>	10 gauge steel opening 18" x 12"	per spec
<u>TAILGATE LATCHING DEVICE:</u>	Cross channel w/latch pins and mounting brackets	per spec
<u>CONTROL:</u>	Jack type w/handle on curb side	per spec
<u>GATE OPENING:</u>	Cast iron sides or 7 gauge formed steel sides	per spec

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02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>CONVEYOR-DRAG CHAIN:</u>		per spec
<u>Width:</u>	24" self-cleaning drag chain	per spec
<u>Conveyor Drive, Idler & Snubber</u>	All must be self cleaning	per spec
<u>Idler Adjusting Pulleys</u>	Sealed anti-friction bearings	per spec
<u>Gear Box</u>	50.1 worm type cast iron gear box or 6:1 Spur gear	per spec
<u>Edge Seals</u>	Shall form a labyrinth seal w/conveyor bottom edge	per spec
<u>Note:</u> Conveyor Bottom	Must be replaceable flat 7 gauge floor.	per spec
<u>Discharge Gate</u>	Adjustable screw jack type	per spec
<u>Feed Gate Opening</u>	Maximum 12" high by 18" wide	per spec
<u>DISTRIBUTOR SPINNER ASSEMBLY:</u>		per spec
<u>Disc</u>	20", w/6 removable fins	per spec
<u>Type</u>	Tip-up Style without the use of special tools / with diverter chute	per spec

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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>Controlled Spread</u>	From 4' to 40'	per spec
<u>Baffles</u>	3 section	per spec
<u>Hydraulic Power</u>	Complete w/2 motors Note: ½" NPT fittings or Must supply adapters	per spec
<u>WARRANTY:</u>	Manufacturer's standard w/coverage complete on all components	per spec
<u>OPTION 1:</u> Screens	Top mounted screens & beam	\$ 1,130.00
<u>OPTION 2:</u> Installation	In the state of <u>Oklahoma</u> by a <u>qualified up fitter</u> . To include hoses and quick couplers 1 each, 5602-12-12S, 5601-12-12S, and 5602-16-16S	\$ 1,200.00
<u>OPTION 3:</u> Lights	LED Stop, Tail & Turn Lights including any marker lights needed	\$ 1,107.20
<u>OPTION 4:</u> Grease Fitting	Extended Grease fitting to front of Spreader to grease pillow block without removing spreader from dump body.	\$ 176.00
<u>OPTION 5:</u> Inverted V	Shield to cover pintle chain to reduce download pressure	\$ 357.00
<u>OPTION 6:</u> Larger Capacity	Increase side height to 62"	\$ 526.67
<u>OPTION 7:</u>	Two (2) Strobes Star model	

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EQUIPMENT SPECIFICATION **15-06**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
Lights 2	240SFD Installed Upper rear one each side & Two (2) work lights installed one shining on pintle chain and one shining on spinner chute.	\$ 612.20
<u>OPTION 8:</u> Spray liner	Hopper, Top of Sills, Inside of Hopper Body, and Inverted V (if installed) to be Coated with spray on Bed Liner Example: Bullet Linings, Rhino Lining, or Equal	\$ 1,524.00

Total weight of this complete unit: 2175 lbs

2070 lbs approximate

Successful bidder must furnish this unit complete with all components including necessary hardware, hoses, couplers, lines, fittings, etc.

NOTE:

Inspection and/or correction of items listed on the inspection and pre-delivery form are considered a part of this specification; also considered part of selling dealers new equipment preparation and handling cost, if he contracts the new equipment pre-delivery service inspection out to another authorized dealer, the selling dealer is still liable to all terms of the specification and purchase order, except for those corrective operations previously established as eligible for warranty reimbursement according to the current warranty and policy procedure manual.

MANUALS AND PARTS BOOKS:

Service	One (1) per machine	<u>yes-no charge</u>
Operator's Manual	One (1) per machine	<u>yes-no charge</u>
Parts Book	One (1) per machine	<u>yes-no charge</u>

SPECIAL REQUIREMENTS:

The successful bidder shall provide at his own expense, a trained service representative to instruct the mechanic and operators in the care and operation of this unit. The Oklahoma Department of Transportation will assign one mechanic and two operators to receive the training at the time the machine is put into actual operation.

PAINT:

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-06**

02/2010

All exposed metal shall be Powder Coated.

Specify color used HWY ORANGE

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- b) Consideration in awarding bids shall be given to parts and service availability

INSPECTION AND DELIVERY OF EQUIPMENT MUST COMPLY WITH VENDORS INSTRUCTION SHEET.

COMPLIANCE:

Bidder shall furnish a statement in writing on the bid or by attached letter and in the vendors statement below if his equipment strictly meets these specifications. If not, he shall list each variation thereof.

VENDORS STATEMENT: (EQUIPMENT PROPOSED COMPLIES) YES: ☒ NO: ☐

DEALER: TOTAL TRUCK & TRAILER, LLC **DATE:** 02/16/2016

SIGNATURE: Dwight D. Anderson **PHONE:** 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in price:
WSH-10' Mild steel \$7,032.91

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DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION 15-06

02/2010

**HEAVY DUTY SPREADER
HOPPER TYPE
FOR DUMP BED MOUNTING**

GENERAL: This spreader shall be capable of spreading a uniform pattern at all widths from four feet to forty feet wide, materials such as sand, salt, chips and other like materials. This spreader must be completely assembled, serviced and ready to operate when it is installed in a State owned dump truck. This spreader must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Monroe Model MV-168-82-56, MS, 10/7

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SPREADER: MAKE: Henderson MODEL: WSH-14-MILD-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>HOPPER BODY:</u>	"V" type box, all welded A569 hi-grade steel	<u>per spec</u>
<u>DUMP BODY & MOUNTING:</u>	14 foot, approx. 9 cubic yards capacity with a 2 foot setback. Slope front as per doghouse requirements in reference to sloped front dimension sheet.	<u>per spec</u>
<u>COMPONENTS:</u>	Mounting brackets	<u>per spec</u>
<u>OVER-ALL HEIGHT:</u>	56 inches above dump bed floor	<u>per spec</u>
<u>OUTSIDE WIDTH:</u>	82 inches	<u>per spec</u>
<u>SILLS:</u>	7 gauge steel	<u>per spec</u>
<u>BOTTOM EDGE:</u>	Flanged 90° Rest on cross sill supports	<u>per spec</u>

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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>BOTTOM:</u>	7 gauge steel	per spec
<u>FRONT & REAR:</u>	Rollover lips	per spec
<u>WIPERS:</u>	Front & rear required	per spec
<u>CROSS SILLS:</u>	HD steel welded to sills and side supports	per spec
<u>SIDE SUPPORTS:</u>	10 gauge steel welded to sides, sills and cross sills	per spec
<u>SIDES:</u>	10 gauge A569 hi-grade steel set 45°, 2" double crimped top edge	per spec
<u>END GATES:</u>	10 gauge A569 hi-grade steel, 2" double crimped top edge	per spec
<u>LIFTING LOOPS:</u>	4 each, 1 near each outside corner	per spec
<u>REAR END GATE:</u>	Welded into position	per spec
<u>FEEDGATE ASSEMBLY:</u>	10 gauge steel opening 18" x 12"	per spec
<u>TAILGATE LATCHING DEVICE:</u>	Cross channel w/latch pins and mounting brackets	per spec
<u>CONTROL:</u>	Jack type w/handle on curb side	per spec
<u>GATE OPENING:</u>	Cast iron sides or 7 gauge	

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EQUIPMENT SPECIFICATION **15-06**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	formed steel sides	per spec
<u>CONVEYOR-DRAG CHAIN:</u>		
<u>Width:</u>	24" self-cleaning drag chain	per spec
<u>Conveyor Drive, Idler & Snubber</u>	All must be self cleaning	per spec
<u>Idler Adjusting Pulleys</u>	Sealed & greasable anti-friction bearings	per spec
<u>Gear Box</u>	50.1 worm type cast iron gear box or 6:1 spur gear	per spec
<u>Edge Seals</u>	Shall form a labyrinth seal w/conveyor bottom edge	per spec
<u>Note:</u> Conveyor Bottom	Must be replaceable flat 7 gauge floor.	per spec
<u>Discharge Gate</u>	Adjustable screw jack type	per spec
<u>Feed Gate Opening</u>	Maximum 12" high by 18" wide	per spec
<u>DISTRIBUTOR SPINNER ASSEMBLY:</u>		
<u>Disc</u>	20", w/6 removable fins	per spec
<u>Type</u>	Tip-up Style without the use of special tools / with diverter	

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DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-06**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	chute	_____ per spec
<u>Controlled Spread</u>	From 4' to 40'	_____ per spec
<u>Baffles</u>	3 section	_____ per spec
<u>Hydraulic Power</u>	Complete w/2 motors Note: ½" NPT fittings or Must supply adapters	_____ per spec
<u>WARRANTY:</u>	Manufacturer's standard w/coverage complete on all components	_____ Yes
<u>OPTION 1:</u> Screens	Top mounted screens & beam	\$ 1,532.67
<u>OPTION 2:</u> Installation	In the state of <u>Oklahoma</u> by a <u>qualified up fitter</u> . To include hoses and quick couplers 1 each, 5602-12-12S, 5601-12- 12S, and 5602-16-16S	\$ 1,200.00
<u>OPTION 3:</u> Lights	LED Stop, Tail & Turn Lights including any marker lights needed	\$ 1,106.92
<u>OPTION 4:</u> Grease Fitting	Extended Grease fitting to front of Spreader to grease pillow block without removing spreader from dump body.	\$ 212.95
<u>OPTION 5:</u> Inverted V	Shield to cover pintle chain to reduce download pressure.	\$ 530.86
<u>OPTION 6:</u>		

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EQUIPMENT SPECIFICATION **15-06**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
Larger Capacity	Increase side height to 62"	\$ 822.46
<u>OPTION 7:</u> Lights 2	Two (2) Strobes Star model 240SFD Installed Upper rear one each side & Two (2) work lights installed one shining on pintle chain and one shining on spinner chute.	\$ 612.05
<u>OPTION 8:</u> Spray liner	Hopper, Top of Sills, Inside of Hopper Body, and Inverted V (if installed) to be Coated with spray on Bed Liner Example: Bullet Linings, Rhino Lining, or Equal	\$ 1,904.86

Total weight of this complete unit: 2175 lbs (approximate) 2690 lbs approximate

Successful bidder must furnish this unit complete with all components including necessary hardware, hoses, couplers, lines, fittings, etc.

NOTE:

Inspection and/or correction of items listed on the inspection and pre-delivery form are considered a part of this specification; also considered part of selling dealers new equipment preparation and handling cost, if he contracts the new equipment pre-delivery service inspection out to another authorized dealer, the selling dealer is still liable to all terms of the specification and purchase order, except for those corrective operations previously established as eligible for warranty reimbursement according to the current warranty and policy procedure manual.

MANUALS AND PARTS BOOKS:

Service	One (1) per machine	<u>Yes-no charge</u>
Operator's Manual	One (1) per machine	<u>Yes-no charge</u>
Parts Book	One (1) per machine	<u>Yes-no charge</u>

SPECIAL REQUIREMENTS:

The successful bidder shall provide at his own expense, a trained service representative to instruct the mechanic and operators in the care and operation of this unit. The Oklahoma Department of Transportation will assign one mechanic and two operators to receive the training at the time the machine is put into actual operation.

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-06**

02/2010

PAINT:

All exposed metal shall be Powder Coated.

Specify color used HWY Orange

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- b) Consideration in awarding bids shall be given to parts and service availability

INSPECTION AND DELIVERY OF EQUIPMENT MUST COMPLY WITH VENDORS INSTRUCTION SHEET.

COMPLIANCE:

Bidder shall furnish a statement in writing on the bid or by attached letter and in the vendors statement below if his equipment strictly meets these specifications. If not, he shall list each variation thereof.

VENDORS STATEMENT: (EQUIPMENT PROPOSED COMPLIES) YES: ☒ NO: ☐

DEALER: TOTAL TRUCK & TRAILER, LLC **DATE:** 02/16/2016

SIGNATURE: Dwight D. Anderson **PHONE:** 405-329-3765

ADDRESS: 4200 S. HARVEY AVE NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in price:
WSH-14' mild steel \$8,138.00

**HEAVY DUTY SPREADER
HOPPER TYPE
FOR DUMP BED MOUNTING**

GENERAL: This spreader shall be capable of spreading a uniform pattern at all widths from four feet to forty feet wide, materials such as sand, salt, chips and other like materials. This spreader must be completely assembled, serviced and ready to operate when it is installed in a State owned dump truck. This spreader must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Monroe Model MV-156-82-56, 201, 10/7

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SPREADER: MAKE: Henderson MODEL: WSH-13-201SS-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>HOPPER BODY:</u>	"V" Type Box, all Welded 201 stainless steel (10 gauge)	<u>per spec</u>
<u>DUMP BODY & MOUNTING:</u>		
	13 feet, approx. 9 cubic yards capacity with a 2 foot setback. Slope front as per doghouse requirements in reference to sloped front dimension sheet.	<u>per spec</u>
	4 adjustable hold-down clamps or 2 – 3" x 12' HD ratchet straps	<u>per spec</u>
<u>DISCHARGE CHUTE:</u>	201 stainless steel 10 gauge, rearward end mounts. Adjustable height extension with SS bolts	<u>per spec</u>
	NOTE: Chute to be equipped with diverter Flap to allow unloading material out Front or rear of chute.	<u>per spec</u>

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 13' Stainless**

02/0

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>COMPONENTS:</u>	Mounting brackets	per spec
	All necessary hardware to be stainless steel	per spec
<u>OVER-ALL-HEIGHT:</u>	56 " above dump bed floor	per spec
<u>OUTSIDE WIDTH:</u>	82" maximum	per spec
<u>SILLS:</u>	201 stainless steel (7 gauge)	per spec
<u>BOTTOM EDGE:</u>		
	Flanged 90°	per spec
	Rest on cross sill supports	per spec
<u>BOTTOM:</u>	201 stainless steel (10 gauge)	per spec
<u>FRONT & REAR:</u>	Rollover lips	per spec
<u>WIPERS:</u>	Front & rear required	per spec
<u>CROSS SILLS:</u>	201 stainless steel welded to sills and side supports (10 gauge)	per spec
<u>SIDE SUPPORTS:</u>	201 stainless steel welded to sides, sills and cross sills (10 gauge)	per spec
<u>SIDES:</u>	201 10 gauge stainless steel 45°, 2" double crimped top edge	per spec

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 13' Stainless**

02/0

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>END GATES:</u>	201 10 gauge stainless steel, 2" double crimped top edge	_____ per spec
<u>REAR END GATE:</u>	Welded into position	_____ per spec
<u>LIFTING LOOPS:</u>	4 each, 1 at or near each outside corner	_____ per spec
<u>FEED GATE ASSEMBLY:</u>	201 stainless steel opening 18"x12" (10 gauge)	_____ per spec
<u>TAILGATE LATCHING DEVICE:</u>	Cross channel with latch pins and mounting brackets.	_____ per spec
<u>CONTROL:</u>	Jack-type with handle on curb side	_____ per spec
<u>GATE OPENING:</u>	201 stainless steel sides (10 gauge)	_____ per spec
<u>CONVEYOR:</u>		
Drag Chain	Approximately 11' conveyor x 24" width self cleaning drag chain. Note: the chain length will be determined with the slope front dimension sheet	_____ per spec
Conveyor Drive, Idler & Snubber	All must be self cleaning	_____ per spec
Idler Adjusting Pulleys	Sealed anti-friction bearings	_____ per spec
Gear Box	50.1 worm drive cast iron	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 13' Stainless**

02/0

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	gearbox or 6:1 spur gear	_____ per spec _____
Edge Seals	Shall form a labyrinth seal with conveyor bottom edge	_____ per spec _____
<u>NOTE:</u> Conveyor Bottom	201 stainless steel slatted type (10 gauge)	_____ per spec _____
Discharge Gate	Adjustable screw jack type	_____ per spec _____
Feed Gate Opening	Maximum 12" high by 18" wide	_____ per spec _____
<u>DISTRIBUTOR SPINNER ASSEMBLY:</u>		
Disc	201 stainless steel (10 gauge) 20", with 6 SS removable fins	_____ per spec _____
<u>Type</u>	Tip-up Style without the use of special tools / with diverter chute	_____ per spec _____
Controlled Spread	From 4' to 40'	_____ per spec _____
Baffles	3 section, 201 stainless steel (10 gauge) adjustable	_____ per spec _____
Hydraulic Power	Complete w/2 motors Note: ½" NPT fittings or Must supply adapters	_____ per spec _____
<u>Warranty:</u> Manufacturer's standard with coverage complete on all components.		
		_____ Yes _____

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 13' Stainless**

02/0

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>OPTION 1:</u> Screens	Top mounted screens & beam	\$ <u>1,452.64</u>
<u>OPTION 2:</u> Installation	In the state of Oklahoma by a qualified up fitter. To include hoses and quick couplers 1 each, 5602-12-12S, 5601-12-12S, and 5602-16-16S	\$ <u>1,200.00</u>
<u>OPTION 3:</u> Lights	LED Stop, Tail & Turn Lights including any marker lights needed	\$ <u>1,106.92</u>
<u>OPTION 4:</u> Grease Fitting	Extended Grease fitting to front of Spreader to grease pillow block without removing spreader from dump body.	\$ <u>212.95</u>
<u>OPTION 5:</u> Inverted V	Shield to cover pintle chain to reduce download pressure.	\$ <u>1,214.96</u>
<u>OPTION 6:</u> SINGLE AUGER CONVEYOR	Auger screw in lieu of pintle chain Note: Screens required	\$ <u>14,544.36</u> dual auger <u>17,033.07</u>

Total weight of this complete unit: 2600 lbs (approximate)

2535 lbs approximate

Successful bidder must furnish this unit complete with all components including necessary hardware, hose, couplers, lines, fittings, etc.

NOTE:

Inspection and/or correction of items listed on the inspection and pre-delivery form are considered a part of this specification; also considered part of selling dealer's new equipment preparation and handling cost, if he contracts the new equipment pre-delivery service inspection out to another authorized dealer, the selling dealer is still liable to all terms of the specification and purchase order except for those corrective operations previously established as eligible for warranty reimbursement according to the current warranty and policy procedure manual.

Special Requirements:

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 13' Stainless**

02/0

The successful bidder shall provide to the receiving division, factory spreader specifications and dimensions and request bed dimensions prior to ordering spreaders.

PAINT: (Non Stainless Components Only)
All exposed metal shall be Powder Coated.

Specify color used none-201SS

WARRANTY: One Year / From date of delivery. exposed metal-black

SERVICE AND PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- B. Consideration in awarding bids shall be given to parts and service availability.

MANUALS AND PARTS BOOK:

Successful Bidder shall furnish one (1) Operators Instruction Manual for each machine. In addition, one (1) Parts Book and one (1) Repair manual shall be furnished to each Division purchasing one or more machines.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

COMPLIANCE:

Bidder shall furnish a statement in writing on the bid or by attached letter, and in the Vendor's Statement below, if his equipment proposed strictly meets these specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO: _____

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: Dwight D. Anderson DATE: 02/10/2016

ADDRESS: 4200 S. HARVEY AVE NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in price:
WSH-13' -201SS \$10,751.76

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 14' Stainless**

02/2010

**HEAVY DUTY SPREADER
HOPPER TYPE
FOR DUMP BED MOUNTING**

GENERAL: This spreader shall be capable of spreading a uniform pattern at all widths from four feet to forty feet wide, materials such as sand, salt, chips and other like materials. This spreader must be completely assembled, serviced and ready to operate when it is installed in a State owned dump truck. This spreader must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Monroe Model MV-168-82-56, 201,10/7

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SPREADER: MAKE: Henderson MODEL: WSH-14-201SS-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>HOPPER BODY:</u>	"V" Type Box, all Welded 201 stainless steel (10 gauge)	<u>per spec</u>
<u>DUMP BODY & MOUNTING:</u>		
	14 feet, approx. 9 cubic yards capacity with a 2 foot setback. Slope front as per doghouse requirements in reference to sloped front dimension sheet.	<u>per spec</u>
	4 adjustable hold-down clamps or 2 – 3" x 12' HD ratchet straps	<u>per spec</u>
<u>DISCHARGE CHUTE:</u>	201 stainless steel 10 gauges, rearward end mounts. Adjustable height extension with SS bolts NOTE: Chute to be equipped with diverter Flap to allow unloading material out Front or rear of chute.	<u>per spec</u>
<u>COMPONENTS:</u>	Mounting brackets	<u>per spec</u>

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 14' Stainless**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	All necessary hardware to be stainless steel	per spec
<u>OVER-ALL-HEIGHT:</u>	56 " above dump bed floor	per spec
<u>OUTSIDE WIDTH:</u>	82" maximum	per spec
<u>SILLS:</u>	201 stainless steel (7 gauge)	per spec
<u>BOTTOM EDGE:</u>		
	Flanged 90°	per spec
	Rest on cross sill supports	per spec
<u>BOTTOM:</u>	201 stainless steel (10 gauge)	per spec
<u>FRONT & REAR:</u>	Rollover lips	per spec
<u>WIPERS:</u>	Front & rear required	per spec
<u>CROSS SILLS:</u>	201 stainless steel welded to sills and side supports (10 gauge)	per spec
<u>SIDE SUPPORTS:</u>	201 stainless steel welded to sides, sills and cross sills (10 gauge)	per spec
<u>SIDES:</u>	201 10 gauge stainless steel 45°, 2" double crimped top edge	per spec
<u>END GATES:</u>	201 10 gauge stainless steel 2"	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 14' Stainless**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	double crimped top edge	per spec
<u>REAR END GATE:</u>	Welded into position	per spec
<u>LIFTING LOOPS:</u>	4 each, 1 at or near each outside corner	per spec
<u>FEED GATE ASSEMBLY:</u>	201 stainless steel opening 18"x12" (10 gauge)	per spec
<u>TAILGATE LATCHING DEVICE:</u>	Cross channel with latch pins and mounting brackets.	per spec
<u>CONTROL:</u>	Jack-type with handle on curb side	per spec
<u>GATE OPENING:</u>	201 stainless steel sides (10 gauge)	per spec
<u>CONVEYOR:</u>		
Drag Chain	Approximately 12' conveyor x 24" width self cleaning drag chain. Note: the chain length will be determined with the slope front dimension sheet.	per spec
Conveyor Drive, Idler & Snubber	All must be self cleaning	per spec
Idler Adjusting Pulleys	Sealed anti-friction bearings	per spec

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 14' Stainless**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
Gear Box	50.1 worm drive cast iron gearbox or 6:1 spur gear	per spec
Edge Seals	Shall form a labyrinth seal with conveyor bottom edge	per spec
<u>NOTE:</u> Conveyor Bottom	201 stainless steel slatted type (10 gauge)	per spec
Discharge Gate	Adjustable screw jack type	per spec
Feed Gate Opening	Maximum 12" high by 18" wide	per spec

DISTRIBUTOR SPINNER ASSEMBLY:

Disc	201 stainless steel (10 gauge) 20", with 6 SS removable fins	per spec
<u>Type</u>	Tip-up Style without the use of special tools / with diverter chute	per spec
Controlled Spread	From 4' to 40'	per spec
Baffles	3 section, 201 stainless steel (10 gauge) adjustable	per spec
Hydraulic Power	Complete w/2 motors Note: ½" NPT fittings or Must supply adapters	per spec

NOTE:

90" long hydraulic hoses to have reusable hydraulic fittings. All stainless fittings to include hydraulic pipe bushings, 1 Tee and adaptors to plumb all lines to truck and put two return hoses together.

dealer to provide

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 14' Stainless**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>Warranty:</u> Manufacturer's standard with coverage complete on all components.		
		Yes _____
<u>OPTION 1:</u> Screens	Top mounted screens & beam	\$ 1,532.62 _____
<u>OPTION 2:</u> Installation	In the state of <u>Oklahoma</u> by a <u>qualified up fitter</u> . To include hoses and quick couplers 1 each, 5602-12-12S, 5601-12-12S, and 5602-16-16S	\$ 1,200.00 _____
<u>OPTION 3:</u> Lights	LED Stop, Tail & Turn Lights including any marker lights needed	\$ 1,106.92 _____
<u>OPTION 4:</u> Grease Fitting	Extended Grease fitting to front of Spreader to grease pillow block without removing spreader from dump body.	\$ 212.95 _____
<u>OPTION 5:</u> Inverted V	Shield to cover pintle chain to reduce download pressure.	\$ 1,304.67 _____
<u>OPTION 6:</u> SINGLE AUGER CONVEYOR	Auger screw in lieu of pintle chain Note: Screens required	\$ 15,233.52 dual auger \$17,498.29
<u>OPTION 7:</u> Larger Capacity	Increase side height to 62"	\$ 1,846.21 _____
<u>OPTION 8:</u> Lights 2	Two (2) Strobes Star model 240SFD Installed Upper rear one each side & Two (2) work lights	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-07 / 14' Stainless**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	installed one shining on pintle chain and one shining on spinner chute.	\$ 612.05

Total weight of this complete unit: **2775 lbs (approximate)** 2690 lbs approximate

Successful bidder must furnish this unit complete with all components including necessary hardware, hose, couplers, lines, fittings, etc.

NOTE:

Inspection and/or correction of items listed on the inspection and pre-delivery form are considered a part of this specification; also considered part of selling dealer's new equipment preparation and handling cost, if he contracts the new equipment pre-delivery service inspection out to another authorized dealer, the selling dealer is still liable to all terms of the specification and purchase order except for those corrective operations previously established as eligible for warranty reimbursement according to the current warranty and policy procedure manual.

Special Requirements:

The successful bidder shall provide to the receiving division, factory spreader specifications and dimensions and request bed dimensions prior to ordering spreaders.

PAINT: (Non Stainless Components Only)

All exposed metal shall be Powder Coated.

Specify color used none-201SS

WARRANTY: One Year / From date of delivery.

exposed metal-black

SERVICE AND PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- B. Consideration in awarding bids shall be given to parts and service availability.

MANUALS AND PARTS BOOK:

Successful Bidder shall furnish one (1) Operators Instruction Manual for each machine. In addition, one (1) Parts Book and one (1) Repair manual shall be furnished to each Division purchasing one or more machines.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION 15-07 / 14' Stainless

02/2010

COMPLIANCE:

Bidder shall furnish a statement in writing on the bid or by attached letter, and in the Vendor's Statement below, if his equipment proposed strictly meets these specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO: _____

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: *Dwight D. Anderson* DATE: 02/10/2016

ADDRESS: 4200 S. HARVEY AVE NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in price:
WSH-14' -201SS \$11,074.85

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 200 gallons

02/2010

V-box Prewet System w/Electric motor

GENERAL: This specification describes an On Board Pre-wetting system is to be used in the dispensing of measured amounts of Calcium Chloride and other chemicals used in snow and ice control operations.

For Comparison Only: Monroe Model LDS333 Dual 100 gallon poly tank

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>Prewet system</u>	<p>Material of construction: Materials and components used in the construction are to be non-ferrous and / or corrosion resistant. Indicate material used in unit bid. The system bid and supplied is to be complete with pump, pump control, nozzles, hoses, tank, fittings, wiring, and mounting hardware as required. The Pump/Motor combination is to be 12 Volts DC, with a rated capacity of 3GPM minimum, and have a positive displacement, three-chamber diaphragm design with integral 45 PSI shut off switch. Indicate GPM of pump bid. Motor is to be permanent magnet design, and Pump components shall be constructed of Polypropylene, Viton and Santoprene.</p> <p>The pump is to be mounted near the rear of the spreader in a NEMA fiberglass enclosure, Located so as not to hinder spreader maintenance or operation. The enclosure shall hold pump assembly and the 4PSI low-pressure sensor. Electrical connections and wiring shall be hard wired within the enclosure. HEAT SHRINK BUTT CONNECTORS (OR</p>	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 200 gallons

02/2010

WEATHERPACK CONNECTORS) WILL BE USED WITH SILICONE TAPE. APPLIED OVER THE ENTIRE SPLICE/CONNECTION. Wire harnesses shall incorporate element resistant weather pack connectors with disconnects at rear end of truck and console. The two (2) reservoirs are to have a minimum capacity of 100 gallons each, (v-box mounting), have internal baffles, and have a minimum of two 3" fill caps, lanyard retained. Reservoirs shall be constructed of a rotationally molded and UV stabilized polypropylene. Material (natural color) and wall thickness shall be 3/8" thick minimum. The tank shall have two (2) 1-1/4" ports and a vent. The ports are to be located as close to the bottom as possible. The tank shall be constructed to fit up to and including 9" radius dump body sides. Tank shall be complete with necessary mounting brackets and hardware. The two (2) brass spray nozzles are to be located in the spinner chute assembly. Five (5)-PSI check valves shall be installed in the nozzles to prevent siphoning of the liquid chemical. Plumbing components are to be constructed of heavy-duty glass reinforced polypropylene or brass except check valves. The hose for the pump suction line shall be 1/2" EPDM. All pressure hoses shall be 1/2"

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 200 gallons

02/2010

EPDM. One (1) 3/4" filter with 201 stainless steel reinforced screen and clean-out plug is to be installed in the suction line. A single control panel shall include: one (1) on/off switch with a system on indicator backlit variable output control knob and low-pressure indicator. The low-pressure indicator shall be a solid red light style with a audible alarm.

\$ 2,255.54

OPTION 1:
Installation

In the state of Oklahoma by a qualified up fitter.

\$ 439.89

NOTE:

THIS UNIT WILL ONLY WORK WITH A 10' V-BOX SPREADER

**INSPECTION AND DELIVERY OF EQUIPMENT MUST BE IN ACCORDANCE WITH
VENDOR'S INSTRUCTION SHEET.**

SPECIFICATIONS:

Each Bidder shall submit complete Manufacturer's Specifications in duplicate and shall submit all other Data to show that his proposal meets these Specifications.

**THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES
UNDER THESE SPECIFICATIONS.**

PAINT:

All exposed metal shall be Powder Coated or Stainless steel.

Specify color used stainless steel

PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- B. Consideration in awarding Bids shall be given to Parts and Service availability.

SERVICE POLICY:

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 200 gallons

02/2010

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered, with each Unit delivered.

MANUALS AND PARTS BOOKS:

Successful Bidder shall furnish one (1) Operator's Instruction Manual for each Spreader. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more spreaders.

VENDOR SHALL FILL IN ALL SPACES UNDER VENDOR'S PROPOSAL; FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid or by attached letter and in the Vendor's Statement below if his Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO:

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: *Dwight D. Anderson* DATE: 02/10/2016

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in price:
Henderson PWVB-dual 100G \$2,695.43

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 250 gallons

02/0

V-box Prewet System w/Electric motor

GENERAL: This specification describes an On Board Pre-wetting system is to be used in the dispensing of measured amounts of Calcium Chloride and other chemicals used in snow and ice control operations.

For Comparison Only: Monroe Model LDS333 Dual 125 gallon poly tank

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>Prewet system</u>	<p>Material of construction: Materials and components used in the construction are to be non-ferrous and / or corrosion resistant. Indicate material used in unit bid. The system bid and supplied is to be complete with pump, pump control, nozzles, hoses, tank, fittings, wiring, and mounting hardware as required. The Pump/Motor combination is to be 12 Volts DC, with a rated capacity of 3GPM minimum, and have a positive displacement, three-chamber diaphragm design with integral 45 PSI shut off switch. Indicate GPM of pump bid. Motor is to be permanent magnet design, and Pump components shall be constructed of Polypropylene, Viton and Santoprene.</p> <p>The pump is to be mounted near the rear of the spreader in a NEMA fiberglass enclosure, Located so as not to hinder spreader maintenance or operation. The enclosure shall hold pump assembly and the 4PSI low-pressure sensor. Electrical connections and wiring shall be hard wired within the enclosure. HEAT SHRINK BUTT CONNECTORS (OR</p>	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 250 gallons

02/0

WEATHERPACK CONNECTORS) WILL BE USED WITH SILICONE TAPE. APPLIED OVER THE ENTIRE SPLICE/CONNECTION. Wire harnesses shall incorporate element resistant weather pack connectors with disconnects at rear end of truck and console. The two (2) reservoirs are to have a minimum capacity of 125 gallons each, (v-box mounting), have internal baffles, and have a minimum of two 3" fill caps, lanyard retained. Reservoirs shall be constructed of a rotationally molded and UV stabilized polypropylene. Material (natural color) and wall thickness shall be 3/8" thick minimum. The tank shall have two (2) 1-1/4" ports and a vent. The ports are to be located as close to the bottom as possible. The tank shall be constructed to fit up to and including 9" radius dump body sides. Tank shall be complete with necessary mounting brackets and hardware. The two (2) brass spray nozzles are to be located in the spinner chute assembly. Five (5)-PSI check valves shall be installed in the nozzles to prevent siphoning of the liquid chemical. Plumbing components are to be constructed of heavy-duty glass reinforced polypropylene or brass except check valves. The hose for the pump suction line shall be 1/2" EPDM. All pressure hoses shall be 1/2"

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 250 gallons

02/0

EPDM. One (1) 3/4" filter with 304 stainless steel reinforced screen and clean-out plug is to be installed in the suction line. A single control panel shall include: one (1) on/off switch with a system on indicator backlit variable output control knob and low-pressure indicator. The low-pressure indicator shall be a solid red light style with a audible alarm.

\$ 2,784.64

OPTION 1:
Installation

In the state of Oklahoma by a qualified up fitter.

\$ 439.89

NOTE:

THIS UNIT WILL ONLY WORK WITH A 14' V-BOX SPREADER

**INSPECTION AND DELIVERY OF EQUIPMENT MUST BE IN ACCORDANCE WITH
VENDOR'S INSTRUCTION SHEET.**

SPECIFICATIONS:

Each Bidder shall submit complete Manufacturer's Specifications in duplicate and shall submit all other Data to show that his proposal meets these Specifications.

**THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES
UNDER THESE SPECIFICATIONS.**

PAINT:

All exposed metal shall be Powder Coated or Stainless steel.

Specify color used stainless steel

PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- B. Consideration in awarding Bids shall be given to Parts and Service availability.

SERVICE POLICY:

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-Prewet 250 gallons

02/0

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered, with each Unit delivered.

MANUALS AND PARTS BOOKS:

Successful Bidder shall furnish one (1) Operator's Instruction Manual for each Spreader. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more spreaders.

VENDOR SHALL FILL IN ALL SPACES UNDER VENDOR'S PROPOSAL; FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid or by attached letter and in the Vendor's Statement below if his Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO:

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: Dwight D. Anderson DATE: 02/10/2016

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in price:
Henderson PWVB-dual 200G \$3,224.53

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-SP

02/2010

HYDRAULIC TRUCK CROSS CONVEYOR

GENERAL: This specification describes an underbody tailgate material spreader designed to distribute material to the left or right edge of the roadway.

For Comparison Only: Monroe Model MS10318

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>WIDTH:</u>	103"	103"
<u>LENGTH:</u>	43"	43"
<u>HEIGHT:</u>	27"	27"
<u>WEIGHT:</u>	1100 lbs	1160 lbs
<u>CAPACITY:</u>	120 tons per hour	200 TPH
<u>GATE OPENING:</u>	16" x 10" right or left	16" x 16" right or left
<u>HYDRAULICS:</u>	15 GPM, 2000 PSI, high torque, low speed	15 GPM, 2000 PSI, high torque, low speed

NOTE:

THE TRUCK THIS UNIT WILL **BE** INSTALLED ON HAS A CENTRAL HYDRAULIC SYSTEM.

INSPECTION AND DELIVERY OF EQUIPMENT MUST BE IN ACCORDANCE WITH VENDOR'S INSTRUCTION SHEET.

SPECIFICATIONS:

Each Bidder shall submit complete Manufacturer's Specifications in duplicate and shall submit all other Data to show that his proposal meets these Specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

15-SP

02/2010

PAINT:

All exposed metal shall be Powder Coated.

Orange Electrostatic
Specify color used Sprayed Liquid

PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- B. Consideration in awarding Bids shall be given to Parts and Service availability.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered, with each Unit delivered.

MANUALS AND PARTS BOOKS:

Successful Bidder shall furnish one (1) Operator's Instruction Manual for each Spreader. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more spreaders.

VENDOR SHALL FILL IN ALL SPACES UNDER VENDOR'S PROPOSAL; FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid or by attached letter and in the Vendor's Statement below if his Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO:

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: Dwight D. Anderson DATE: 02/10/2016

ADDRESS: 4200 S. HARVEY AVE NEWCASTLE, OK 73065

Price includes freight to Total Truck & Trailer
HTC Model 1800 Conveyor \$11,560.11

SNOW PLOW
FRONT MOUNTED REVERSIBLE
WITH SAFETY TRIP
FOR TILT HOOD OR TILT CAB TRUCK

GENERAL: This snow plow shall be adequate for a single or dual axle truck and must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Valk Model RV111-116 Plow / MD-700T Hitch

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SNOW PLOW: MAKE: Henderson MODEL: MSP-11 x 34-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>MOLDBOARD:</u>	10 gauge steel 30" x 11'	<u>10 guage steel 34" x 11'</u>
	8 each vertical ½" x 3" ribs with two ribs at each hinge point	<u>continuously welded 8 vertical ribs 3/8" x 3"</u>
	2 rows of ¼" x 1 ½" x 11' horizontal ribs	<u>(2) 2-1/2" x 2-1/2" x 1/4" angles</u>
	Top reinforced with an integrally formed channel	<u>2" x 3"x 1/4" structural angle</u>
	Bottom reinforced with a back-up angle of 3 ½" x ½" angle gusseted	<u>reinforced 3.5" x 3.5" x 1/2" bottom angle</u>
	Integral Snow shield	<u>integral shield</u>
	Blade size ½" x 6" x 11'	<u>per spec</u>

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Lt Duty**

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>MOLDBOARD</u> , cont	Reversible cutting width 9' at 35°	cutting path at 35 degree 10' length is 8' 2"
	8' at 42°	35 degrees
	Flag mounting ability at each end	Holes provided for markers
<u>SEMI-CIRCLED:</u>	Angle rolled 3 ½" x 3 ½" x ½" with front angle of 4" x 3" x ½" running a length of 120" along rear of moldboard	3-1/2" x 3-1/2" x 3/8" angle welded to 3" x 3" x 3/8" square 81.5" structural tube
	Attached to moldboard at 5 points with outside hinge points 116" apart	5 points 82.5" outside
	Equipped with full swiveling and spring cushioned caster assemblies with 8" x 3" wheels with high speed bearings	6" cast wheels screw jack adjustable
Tripping Mechanism	To be attached to trunnion on semi-circle fully enclosed	attache to semi-circle -open
	Enclosed dual spring I separate tubing	dual springs -open
	With external cushion spring	N/A
	With automatic trip and return	per spec

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Lt Duty**

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
Weight of Moldboard Semi-circle & Tripping Assembly	1210 lbs	<u>will not exceed 1210 lbs</u>
Capacity:	Adequate for 25,000 – 52,000 lbs, GVWR truck	<u>Yes</u>
Pushframe & Hitch	Show make	<u>Henderson</u>
	Show Model	<u>QCK HCH - Manual Tilt</u>
Total Weight	490 lbs	<u>will not exceed 490 lbs</u>
<u>Pushframe</u>	Legs to be 4" x 3/8" x 72" channel steel with adjustable connector blocks attached on 21" centers with 4 each 1" x 3" mechanical bolts	<u>Frame mount quick hitch 30-1/2" centers</u>
	2 each axle hooks	<u>N/A</u>
<u>Hitch</u>	Heavy duty for tilt hood with front frame extension, bumper to axle type	<u>per spec</u>
	The vertical portion must hinge forward to provide operating clearance for hood or cab	<u>per spec</u>
	The lift arm shall accommodate a 4" x 10" hydraulic lift cylinder	<u>per spec</u>
	To be equipped with connectors	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Lt Duty**

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	to accept the complete moldboard assembly	_____ per spec
Hitch, cont	All push shall be through the bumper and truck frame. There shall be no push or strain on the front axle	_____ per spec
	Capacity sufficient to lift plow 12" above roadway	_____ per spec
Hydraulic Equipment	One (1) each 4" x 10" hydraulic lift cylinder double acting	_____ per spec
Misc Parts & Instructions for Assembly & Mounting	Each snow plow unit must be complete with all necessary hardware, fittings and instructions with drawings for proper assembly and truck installation	_____ per spec
<u>OPTION 1: HYDRAULIC REVERSE MECHANISM</u>		
If this option is specified it shall include two (2) 3" x 10" heavy duty double acting power reverse cylinders. These cylinders must be equipped with a cushion valve to protect the cylinders from damage. (Gresen DXV Double Relief Valve set at 1800 PSI). Include the cost of this option in your bid price.		
This is Henderson standard		
<u>OPTION 2:</u> Deflector	Rubber snow shield installed at factory	\$ 358.58
<u>OPTION 3:</u> Installation	In the state of Oklahoma by a qualified up fitter.	\$ 1,680.00
<u>OPTION 4:</u> Plow Lights	Installed	\$ 431.89

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Lt Duty**

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>OPTION 5:</u>	10' Plow	\$ 6,000.51
<u>OPTION 6:</u>	12' Plow	\$ 6,274.18
<u>OPTION 7:</u>	36" Tall Plow	\$ not offered

PAINT:

All exposed Metal shall be primed and painted with a protective Metal Primer; then painted Oklahoma Department of Transportation Yellow to comply with Federal Standard #595, Chrome Yellow Enamel #13432, DuPont #93-75306, School Bus Yellow or equal in color, shade and tone.

NOTE: Front surface of blade to be primed ONLY. Yellow paint MUST NOT be applied to this surface.

INSPECTION AND DELIVERY OF EQUIPMENT TO COMPLY WITH VENDOR'S INSTRUCTION SHEET.

MANUALS & PARTS BOOKS:

Successful bidder shall furnish one (1) Operators Instruction Manual for each plow. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more plows.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered with each unit delivered.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESES SPECIFICATIONS.

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Lt Duty**

06/2011

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available. Discount on Parts and Hourly Rate for Labor.
- b) Consideration in awarding bids shall be given to parts and service availability.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid, in the Vendor's Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO:

DEALER: TOTAL TRUCK & TRAILER, LLC **DATE:** 02/10/2016

SIGNATURE: Dwight D. Anderson **PHONE:** 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in pricing:
MSP 11 x 34 \$6,155.09
Quick Hitch Manual Tilt \$1,935.98

SNOW PLOW
FRONT MOUNTED REVERSIBLE
WITH SAFETY TRIP MOLDBOARD
FOR TILT HOOD OR TILT CAB TRUCK

GENERAL: This snow plow shall be adequate for a single or dual axle truck and must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Monroe Model MP36R11-ISCT w/MC7082 Truck Hitch

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SNOW PLOW: MAKE: Henderson MODEL: RSP-11 x 36-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>MOLDBOARD:</u>	Roll formed 10 gauge steel 36" x 11' with 5/8" x 8" cutting edge strength of 55,000 lbs - 70,000 lbs	<u>per spec</u>
	Integral shield style moldboard	<u>per spec</u>
	6 each 1/2" x 4" vertical ribs, 1 pc flame cut	<u>8 vertical ribs 1/2" x 3-1/2"</u>
	2 rows of 11' horizontal ribs, bottom angle 4" x 4" x 3/4", top angle 2" x 3" x 3/8"	two horizontal braces 4" x 4" x 3/4" bottom angle <u>2-1/2" x 3-1/2" x 3/8" top angle</u>
	3" x 3" x 1/4" non-spring horizontal angle bracing	<u>N/A</u>
	3" x 3" x 1/2" horizontal spring support angle bracing	<u>3" x 3" x 1/4"</u>
	Moldboard and Pushframe 100% continuously welded	<u>per spec</u>
	Stress proof machined pins	<u>per spec</u>

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

78-01 Md Duty

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>MOLDBOARD, cont.</u>	Blade size 5/8" x 8" x 11'	per spec
	Reversible cutting width 9' x 35°	cutting path at 35 degrees for 11' length is 9' 0"
	36" Markers Fluorescent orange	per spec
<u>SEMI-CIRCLED:</u>	Angle rolled 3 1/2" x 3 1/2" x 1/2" A36 steel with front tube 3/8" wall of 4" x 4" running a length of 85" along rear of moldboard	Semi Circle is 3-1/2" x 3-1/2" x 1/2" Angle welded to 4" x 4" x 3/8" structural tube
	3 position adjustment for plow cutting angle of attack 5, 10 and 20 degree	per spec
	Two 4" x 10" power reversing cylinders w/cushion valve	per spec
	Built in level lift assembly to allow plow to be parallel to the road surface at all times raised, lowered or angled.	per spec
	Equipped with screw adjustable shoes	per spec
Tripping Mechanism	Dual compression trip spring assemblies with automatic trip and return	per spec
Weight of Moldboard Semi-circle & Tripping Assembly	1680 lbs.	approx wt of moldboard, semi circle, pushframe and hitch is 2000 lbs
Capacity:	Adequate for 25,000 – 52,000 lbs, GVWR truck	Yes

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION 78-01 Md Duty

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
Pushframe & Hitch	Show make Show Model	Henderson QCK-HCH Manual Tilt
Total Weight	480 lbs	see weight note above
<u>Pushframe</u>	Main push tub is 4" x 4" x 3/8" A36 steel seamless wall bracing	N/A
<u>Hitch</u>	Quick hitch plow and high profile truck portion quick hitch design for tilt hood truck	per spec
	Lock mechanisms must be 100% welded to the boxed channel and the latching mechanisms shall be automatic, spring loaded, adjustable and have a single lever to release. Two (2) 1 ½ x 1045 steel latches that hold the plow portion of hitch to the truck portion. Note: The lever shall be retained in either lock or the released position and in the locked position, the truck must be able to be driven into the hitch and have it lock automatically. A SINGLE LOCK HITCH IS UNACCEPTABLE	per spec
	The plow shall be equipped with a leveling device to allow the plow to be raised by one, center-lifting lug. The plow shall allow plow angle full left and full right while the plow is raised, and shall not be required lowering of plow to level it after angling	per spec
	The level lift frame shall be	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Md Duty**

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	factory standard appropriate to the model bid	per spec
	½" side plate kit for extended frame trucks	per spec
	The lift arm shall accommodate a 4" x 10" hydraulic lift cylinder double acting	per spec
	To be equipped with connectors to accept the complete moldboard assembly	per spec
	All push shall be through the bumper and truck frame. There shall be no push or strain on the front axle	per spec
	Capacity sufficient to lift plow 12" above roadway	per spec
Hydraulic Equipment	One (1) each 4" x 10" hydraulic lift cylinder double acting.	per spec
Misc Parts & Instructions for Assembly & Mounting	Each snow plow unit must be complete with all necessary hardware, fittings and instructions with drawings for proper assembly and truck installation	per spec

HYDRAULIC REVERSE MECHANISM

The hydraulic reverse mechanism shall function from the truck cab and be capable of holding the plow angle during snow and ice removal operations with requiring additional locks to prevent cylinder failures or hydraulic system damage.

This is Henderson standard

The operator shall not be required to get out of the vehicle to unlock mechanism prior to changing plow angle.

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION 78-01 Md Duty

06/2011

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>

<u>OPTION 1:</u> Deflector	Rubber snow shield installed at factory	\$ <u>358.58</u>
<u>OPTION 2:</u> Installation	In the state of Oklahoma by a qualified Upfitter.	\$ <u>1,680.00</u>
<u>OPTION 3:</u> Plow Lights	Installed	\$ <u>431.89</u>
<u>OPTION 4:</u> Moldboard	3/16" thick in lieu of 10 gauge	\$ <u>393.24</u>
<u>OPTION 5:</u>	10' Plow	\$ <u>7,290.18</u>
<u>OPTION 6:</u>	12' Plow	\$ <u>7,647.42</u>
<u>OPTION 7:</u>	42" Tall Plow	\$ <u>77.31</u>

PAINT:

All exposed metal shall be Powder Coated.

Specify plow color used Orange

Specify hitch color used Black

INSPECTION AND DELIVERY OF EQUIPMENT TO COMPLY WITH VENDOR'S INSTRUCTION SHEET.

SERVICE MANUALS & PARTS BOOKS:

Successful bidder shall furnish one (1) Operators Instruction Manual for each plow. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more plows.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered with each unit delivered.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESES SPECIFICATIONS.

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- b) Consideration in awarding bids shall be given to parts and service availability.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid, in the Vendor's Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO: _____

DEALER: TOTAL TRUCK & TRAILER, LLC DATE: 02/10/2016

SIGNATURE: Dwight D. Anderson PHONE: 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in price:
RSP 11 x 36 \$7,057.19
Quick Hitch Manual Tilt \$1,935.98

**SNOW PLOW
FRONT MOUNTED REVERSIBLE
WITH SAFETY TRIP
FOR TILT HOOD OR TILT CAB TRUCK**

GENERAL: This snow plow shall be adequate for a single or dual axle truck and must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Gledhill Model 11HSJPR2 Front Plow

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SNOW PLOW: MAKE: Henderson MODEL: RSP-11 x 42-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>MOLDBOARD:</u>	Full roll 10 gauge steel 42" x 11' and an integral design	<u>per spec</u>
	Power reversing with double acting reversing cylinders	<u>per spec</u>
	Four (4) trip springs, open extension	<u>per spec</u>
	Six (6) contentious ribs from top to bottom of moldboard	<u>8 ribs ilo 6</u>
	Cutting blades must be 6" with a 12" hole spacing	<u>per spec</u>
Weight of Moldboard Semi-circle & Tripping Assembly	2050 lbs	<u>will not exceed 2050 lbs</u>

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Hvy Duty**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>FRONT FRAME HITCH:</u>	To be engineered specific for year make and model of truck. Must mount to truck frame and provide support for front mounted PTO. Hitch must keep plow parallel to road surface in the raised, lowered and angled positions.	_____ per spec
<u>MISC PARTS AND INSTRUCTIONS FOR ASSEMBLY AND MOUNTING:</u>	Each snow plow unit must be complete with all necessary hardware, fittings and instructions with drawings for proper assembly and truck installation	_____ per spec
<u>OPTION 1:</u> Deflector	Rubber snow shield installed at factory	\$ <u>\$358.58</u>
<u>OPTION 2:</u> Installation	In the state of Oklahoma by a qualified up fitter.	\$ <u>Dealer \$1,680.00</u>
<u>OPTION 3:</u> Plow Lights	Installed	\$ <u>\$431.89</u>

PAINT:

All exposed Metal shall be primed and painted with a protective Metal Primer; then painted Oklahoma Department of Transportation Yellow to comply with Federal Standard #595, Chrome Yellow Enamel #13432, DuPont #93-75306, School Bus Yellow or equal in color, shade and tone.

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Hvy Duty**

02/2010

INSPECTION AND DELIVERY OF EQUIPMENT TO COMPLY WITH VENDOR'S INSTRUCTION SHEET.

MANUALS & PARTS BOOKS:

Successful bidder shall furnish one (1) Operators Instruction Manual for each plow. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more plows.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered with each unit delivered.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- b) Consideration in awarding bids shall be given to parts and service availability.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid, in the Vendor's Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO:

DEALER: TOTAL TRUCK & TRAILER, LLC

DATE: 02/10/2016

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION **78-01 Hvy Duty**

02/2010

SIGNATURE: Dwight D. Anderson **PHONE:** 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Price includes freight to Total Truck & Trailer:
RSP 11 x 42-OKDOT \$6,100.61
Quick Hitch Manual Tilt \$1,935.98

**SNOW PLOW
FRONT MOUNTED REVERSIBLE
WITH SAFETY TRIP
FOR TILT HOOD OR TILT CAB TRUCK**

GENERAL: This snow plow shall be adequate for a single or dual axle truck and must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Gledhill Model 11HSJPR2 Front Plow

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SNOW PLOW: MAKE: Henderson MODEL: RSP - 11 x 42J-OKDOT

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>MOLDBOARD:</u>	<p>THE MOLDBOARD SHALL BE A 'J' SHAPED BLADE WITH AT LEAST A 19" RADIUS AND THE LAST 12 INCHES A MINIMUM OF 6" RADIUS. THE MOLDBOARD SHALL BE A MINIMUM OF 42" UNIFORM HEIGHT AND 11' LONG AT THE CUTTING EDGE. THE MOLDBOARD SHALL BE MADE OF NOT LESS THAN *10 GAUGE STEEL PANELLED FOR ADDITIONAL STRENGTH. THE MOLDBOARD SHALL BE REINFORCED AT THE TOP BY A SELF-FORMED CHANNEL AND THE BOTTOM WITH A ONE PIECE STRUCTURAL ANGLE AT LEAST 4" X 4" X 3/8" TO THIS ANGLE, A CUTTING EDGE BACKING OF 5/8" X 3" SHALL BE WELDED AND FURTHER BRACED BY GUSSETS A MINIMUM OF 1/2"X2-1/2" WELDED BETWEEN EACH CUTTING EDGE BOLT POSITION. THIS STRUCTURAL TRIANGLE SHALL BE CONSTRUCTED SO THAT WHEN THE CUTTING EDGE IS BOLTED TO THE BACKING, THE FRONT FACE OF THE CUTTING EDGE WILL BE FLUSH WITH THE MOLDBOARD FACE TO PREVENT THE SNOW BUILD UP ON TOP OF THE BLADE. THE MOLDBOARD</p>	<p>not panelled</p> <p>3-1/2" x 2-1/2" x 3/8" structural angle ilo self formed channel</p> <p>structural angle is 4" x 4" x3/4"</p> <p>cutting edge backing not required and not provided</p>

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Hvy Duty**

02/2010

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	SHALL, BE REINFORCED WITH A MINIMUM OF SIX (6) FULL LENGTH VERTICAL RIBS. VERTICAL RIBS SHALL BE AT LEAST 1/2" X 3" FORMED STEEL CONTINUOUSLY WELDED ON BOTH SIDES OF EDGE TO THE MOLDBOARD SHEET AND SECURED AT THE TOP TO THE FORMED CHANNEL AND AT THE BOTTOM, TO THIS STRUCTURAL ANGLE. THE LOWER REAR CROSS ANGLE SHALL BE PROVIDED WITH AT LEAST TEN (10) EARS, 3/4" THICK ON 88" OUTSIDE HINGE POINT CENTERS FOR ATTACHMENT TO THE TABLE ASSEMBLY A FIVE (5) POINTS WITH 1-1/4" DIAMETER, 105,000 POUND TENSILE STRENGTH PINS.	8 full length vertical ribs burned not formed steel angle not formed channel attached through ribs _____
Weight of Moldboard Semi-circle & Tripping Assembly	2050 lbs	_____ will not exceed 2050 lbs
<u>CUTTING EDGE:</u>	THE CUTTING EDGE SHALL BE OF ABRASION RESISTANT STEEL C1090 OR EQUAL WITH A BRINELL HARDNESS OF 250 MIN. AND 325 MAX. IT SHALL BE 1/2" THICK X 6" WIDE & FULL LENGTH OF MOLDBOARD, AASHO STANDARD PUNCHED, FLUSH WITH MOLDBOARD AND BE EASILY REPLACEABLE.	_____ per spec
<u>TRIPPING MECHANISM:</u>	SHALL BE ATTACHED TO THE TABLE AND TO THE MOLDBOARD AND CONSIST OF AT LEAST 4 EXTENSION SPRINGS. THE SPRING MATERIAL MUST BE ASTM-A229 OIL TEMPERED 112" WIRE, 4-1/2" O.D. X 24 ACTIVE COILS WITH THE END HOOKS COLD FORMED TO 90 DEGREE RIGHT ANGLES TO EACH OTHER THE SPRING PULL FORCE AT 30.5" SHALL BE A MINIMUM OF 1,050 POUNDS AND	

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION	78-01 Hvy Duty	02/2010
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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	<p>ALLOW 14" OF STRETCH WITHOUT DEFORMATION. THESE SPRINGS SHALL CONTROL THE TRIP SO THAT THE PLOW WILL BE HELD RIGID FOR PLOWING AND WILL TRIP AUTOMATICALLY WHEN COMING IN CONTACT WITH ANY SOLID OBJECT AND RETURN AUTOMATICALLY TO THE ORIGINAL PLOWING POSITION WHEN 'RELEASED. THE EXTENT OF THE FORWARD MOTION OF THE MOLDBOARD SHALL BE CONTROLLED BY A MECHANICAL TELESCOPIC TRIPPING POST ASSEMBLY CONSTRUCTED OF AT LEAST A 1-1/4" 2" INSIDE BAR, 3/4" X 2-1/4" OUTSIDE BARS AND FURTHER REINFORCED WITH 1 1/4" X 2" BARS. THE TRIPPING POST ASSEMBLY SHALL BE INDEPENDENT OF THE SPRINGS AND SHALL PREVENT THE TOP OF THE MOLDBOARD FROM CONTACTING THE ROAD SURFACE. CONNECTING THE TRIPPING POST TO THE MOLDBOARD AND TABLE WILL BE 1" DIAMETER PINS WITH 72,700 POUNDS OF TENSILE STRENGTH.</p>	<p>see attached spec OKDOT HD J-Plow</p>
<u>PLOW MARKERS:</u>	<p>SNOW PLOW TO BE EQUIPPED WITH TWO (2) PLOW MARKERS. MARKERS TO BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE, 1-1/4" O. D. X 1" I.D. BY 24" LONG, SAFETY YELLOW WITH A FLEXIBLE JOINT AT THE BOTTOM AND ATTACHED TO THE PLOW BY MEANS OF COTTER PINS.</p>	<p>per spec except orange not yellow</p>
<u>TABLE:</u>	<p>THE CIRCULAR ARC SHALL BE CONSTRUCTED OF NOT LESS THAN A 4" X 4" X 1/2" ANGLE, COL FORMED, TO A 26" INSIDE RADIUS AND JOINED TO THE MAIN FRONT ANGLE, ADDITIONAL REINFORCEMENTS TO BE INCLUDED SHALL BE A 1/2" X 4-1/2" AND A 1" X 5" BAR. SUPPORTING</p>	<p>3-1/2" x 3-1/2" x 1/2" angle</p>

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION	78-01 Hvy Duty	02/2010
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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	<p>AND REINFORCING THE CIRCULAR ARC SHALL BE TWO (2) 4" X 4" X 1/2" ANGLES, 1/2" X 3-1/2", BARS, 1/2" X 4" BARS AND 1/2" X 10" CAP PLATES. TWO (2) 3/4" ANGLES WILL BE SO LOCATED TO ACT AS STRUCTURAL STOPS TO THE CORRESPONDING RUBBER BUMPERS THAT ARE ATTACHED TO THE 'A' FRAME AND THE TWO MEMBERS COME INTO CONTACT AT THE 35 DEGREE PLOW ANGLE. ATTACHED TO EACH END WILL BE PLATES OF 1/2" X 7" MATERIAL TO WHICH CARRYING DEVICES SUCH AS CAST SHOES OR CASTER WHEELS CAN BE BOLTED. THE LIFT CHAIN ASSEMBLY SHALL INCLUDE A ZINC PLATED 7/16" PROOF COIL CHAIN ALONG WITH A CAST STEEL CHAIN BLOCK TO HELP FACILITATE REVERSING THE PLOW FROM RIGHT TO LEFT.</p>	<p>see attached spec</p> <p>OKDOT HD J-Plow</p> <hr/>
<u>'A' FRAME:</u>	<p>SHALL CONSIST OF TWO (2) 4" 0a 13.8# CAR CHANNEL AND ONE (1) 1-1/2" X 5" BAR. ADDITIONAL BRACING SHALL INCLUDE CROSS. ANGLES OF AT LEAST 4" X 4" X 112" AND 4"X3"X1/2" WITH EXTRA STRENGTH PROVIDED BY ATLEAST FOUR (4) GUSSETS OF 1/2" X 5-1/2". THE TWO (2) REAR CHANNELS OF THE 'A' FRAME SHALL BE PROVIDED WITH HEAVY DUTY 1" THICK CAST STEEL ADJUSTABLE EARS FOR ATTACHMENT OF THE 'A' FRAME TO THE TRUCK HITCH BY MEANS OF 1-1/4" DIAMETER BOLTS. EAR SPACING SHALL BE 30 INCHES (OR AS SPECIFIED) TO CORRESPOND WITH THE EAR SPACING OF THE TRUCK HITCH.</p>	<p>see attached spec</p> <p>OKDOT HD J-Plow</p> <hr/>
<u>HYDRAULIC REVERSING CYLINDERS:</u>	<p>SHALL CONSIST OF TWO (2) DOUBLE ACTING HYDRAULIC CYLINDERS OF AT LEAST 4" INSIDE DIAMETER WITH PISTON RODS OF AT LEAST 2" DIAMETER, AND A STROKE OF AT LEAST 20" CYLINDER</p>	<p>4" x 10" x 2" bore cylinder</p>

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION	78-01 Hvy Duty	02/2010
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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	<p>PISTON RODS TO BE TREATED WITH NITRO STEEL PROCESS TO HELP PREVENT RUSTING. CHROME PISTON RODS NOT ACCEPTABLE. THESE CYLINDERS SHALL BE CAPABLE OF REVERSING THE PLOW FROM 35 DEGREES RIGHT TO 35 DEGREES LEFT OR HOLD THE PLOW AT ANY ANGLE WITHIN THIS ARC. THE CYLINDER GEOMETRY AND COMPONENTS OF THE HYDRAULIC SYSTEM SHALL BE DESIGNED TO HOLD THE PLOW AT ANY DESIRED PLOWING ANGLE WITHOUT RECOURSE TO A LOCKING DEVICE, UNDER MAXIMUM LOAD, WITHOUT OVERLOADING RATED CAPACITIES. THE HYDRAULIC POWER SHALL BE SUFFICIENT TO CHANGE THE PLOWING ANGLE BY ANY AMOUNT WITHIN THE PREVIOUSLY MENTIONED LIMITS WHILE THE TRUCK IS IN MOTION, THE PLOW DOWN, AND PLOWING SNOW AT FULL CAPACITY.</p>	<p>see attached spec OKDOT HD J-Plow</p>
<p><u>MUSHROOM SHOE ASSEMBLY, STANDARD ON RH, PCB, PR2, & PRT MODELS:</u></p>	<p>SKID SHOE ASSEMBLIES MUST BE OF THE HAND ADJUSTABLE TYPE, ENCLOSED AND FULLY LUBRICATED, WITH REPLACEABLE CHILLED CAST IRON SHOES, MUSHROOM SHAPED, AT LEAST 11" IN DIAMETER AND 2-1/2" THICK. THE ADJUSTMENT SHALL BE ACCOMPLISHED BY AN ACME THREADED SCREW, OPERATED BY A HAND CRANK WITH ROTATING KNOB WHICH SHALL BE SELFLOCKING AND SHALL OPERATE WITHOUT THE USE OF ANY TOOL.</p>	<p>per spec</p>
<p><u>LEVEL LIFT:</u></p>	<p>THE LEVEL-LIFT OPTION SHALL PROVIDE AN AUTOMATIC, MECHANICALLY ACTIVATED MECHANISM THAT WILL HOLD A RAISED PLOW MOLDBOARD EQUAL DISTANCE FROM THE 3ROUND TO THE BOTTOM OF THE CUTTING</p>	

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION	78-01 Hvy Duty	02/2010
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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	<p>EDGE. THE LEVEL-LIFT MECHANISM WILL HOLD AN EQUAL ELEVATION REGARDLESS OF HEIGHT RAISED ABOVE GROUND AND REGARDLESS OF MOLDBOARD PLOWING ANGLE, WHETHER FULL RIGHT, BULLDOZE, FULL LEFT, OR ANYWHERE IN BETWEEN. NOTE THAT MOLDBOARD PLOWING ANGLE CAN BE CHANGED TO ANY DESIRED POSITION MAINTAINING EQUAL ELEVATION WITHOUT FIRST LOWERING PLOW, CHANGING PLOWING ANGLE, AND THEN RE-LIFTING. SHALL BE PROVIDED WITH TWO (2) LIFTING CHAINS, 7/16" PROOF COIL CHAIN X 60" LONG.</p>	<p>Exceeds spec</p>
<u>HITCH:</u>	<p>TO BE ENGINEERED, DESIGNED AND BUILT BY A RECOGNIZED SNOW PLOW MANUFACTURER. THE SNOW PLOW HITCH PROVIDES SUPPORT FOR A VARIETY OF FRONT MOUNTED GEAR OR PISTON LOAD SENSING PUMPS. THE DESIGN WILL LIMIT THE AMOUNT OF FRONT OVERHANG TO A MINIMUM. A TRUCK FRAME EXTENSION IS NOT REQUIRED FOR THE MOUNTING OF THE HITCH. HEAVY FRONT FRAME HITCH OF MODULAR DESIGN SHALL ALLOW THE CAB HOOD TO TILT FORWARD A SUFFICIENT AMOUNT TO PROVIDE ENGINE ACCESS. SIDE PLATES WILL TRANSMIT PLOWING FORCES DIRECTLY TO THE TRUCK FRAME SIDE RAILS AND WILL CUSTOM FIT THE SPECIFIED YEAR, MAKE AND MODEL OF THE TRUCK. THE SIDE PLATES ARE CUSTOM FITTED 5/8" STEEL PLATE OF PROPER LENGTH AND CONSTRUCTION FOR HEAVY DUTY SERVICE AND SHALL PROVIDE ADEQUATE CLEARANCE FOR STEERING MECHANISMS AND SPRING SUSPENSIONS. SIDE PLATE MOUNTING ANGLES OR PLATES SHALL MOUNT FLUSH TO THE TRUCK FRAME FOR MAXIMUM</p>	

EQUIPMENT SPECIFICATION	<p align="center">STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION 78-01 Hvy Duty</p>	02/2010
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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	<p>STRENGTH. PIPE SPACERS ARE NOT ACCEPTABLE. THE FRONT SECTIONS OF THE HITCH ASSEMBLY: LIFT FRAME, CENTER SECTION AND THE LOWER PUSH PLATE SHALL ALL BE WELDED TO THE TWO VERTICAL TUBULAR SUPPORTS. THE TUBULAR SUPPORTS ARE TO BE CONSTRUCTED OF 4"X4" SQUARE TUBING X 1/2" THICK WALL. VERTICAL TUBULAR SUPPORTS TO BE A MINIMUM OF 45" TALL. THE CENTER PUSH SECTION TO BE BUILT OF 7" CHANNEL @ 19#/FT. WITH TWO 1/2"X2" FLAT BAR REINFORCEMENT BRACES. TWO 1/2"X3"X4" LIFT CYLINDER EARS TO BE WELDED TO THIS AND TO 1/2"X2-1/2" FLAT REINFORCEMENT BARS. BAR TO RUN FROM TUBE TO TUBE. THE HITCH LIFT BEAM SHALL CONSIST OF TWO 5/8" X 3" BARS, SECURED BY 10 GAUGE TOP CAP AND A MINIMUM OF THREE 1/2" X 3" SPACERS. THIS BEAM SHALL BE ASSEMBLED SO THE BEAM MAY DROP DOWN TO ALLOW FULL TILTING OF THE TRUCK HOOD WITHOUT ANY INTERFERENCE. PIVOT PINS SHALL BE 1" DIAMETER MINIMUM GRADE 5. IN THE DROP DOWN POSITION THE BEAM SHALL LAY IN A CUT OUT PORTION OF THE FRONT CHANNEL BUMPER. PROPER MOUNTING EARS SHALL BE PROVIDED TO ALLOW FOR A LOCK DOWN PIN TO LOCK THE BEAM TO THE FRONT CHANNEL BUMPER. IN THE DROP DOWN POSITION, THE LIFT CYLINDER SHALL BE SO POSITIONED THAT IF ACCIDENTALLY EXTENDED, WILL NOT CAUSE ANY DAMAGE TO THE HITCH OR TRUCK. THE LIFT RM SHALL ATTACH TO THE TOP ANGLE BY MEANS OF TWO 1" PINS HAVING AT LEAST 72,700 POUNDS OF TENSILE STRENGTH. THE MAIN CYLINDER AND PUMP STRUCTURAL SUPPORT SHALL BE AT LEAST A 6"X4"X3/8" ANGLE GUSSETED</p>	

EQUIPMENT SPECIFICATION	<p align="center">STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION 78-01 Hvy Duty</p>	02/2010
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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	<p>AND CONNECTED TO THE TWO VERTICAL TUBULAR SUPPORTS. THESE TUBULAR VERTICAL SUPPORTS WILL ATTACH TO THE CUSTOM SIDE PLATES. INCLUDED SHALL BE A MINIMUM OF A 4" DIAMETER HOLE TO ALLOW THE PUMP DRIVELINE TO PASS THROUGH TO CONNECT TO THE HYDRAULIC PUMP, EITHER GEAR TYPE OR PISTON LOAD SENSING. TWO BUMPER SUPPORT ANGLES SHALL BE WELDED TO THE MAIN ANGLE AND SHALL BE AT LEAST 6" X4"X3/8". A FRONT BUMPER SHALL BE INCLUDED AND MADE OF AT LEAST 8" @11.5# CHANNEL. THE LOWER PUSH PLATE MAIN MEMBER WILL BE A 10" @ 25# CAR CHANNEL REINFORCED WITH A 3" X 3" X 3/8" ANGLE AND WELDED TO THE VERTICAL TUBES. THE FOUR PLOW CONNECTING EARS SHALL HAVE THREE EQUALLY SPACED HEIGHT ATTACHING HOLES TO ACCEPT 1-1/4" DIAMETER HITCH PINS WITH HANDLES. THE EARS SHALL BE 1/2" X 3-1/2" AND SPACED ON 30" PUSH CENTERS. THE PLOW HOIST CYLINDER SHALL BE OF PREMIUM GRADE AND SHALL BE A DOUBLE ACTING 3" BOREX10" STROKE. THE PISTON ROD IS TO BE OF STEEL CONSTRUCTION TREATED WITH A NITRO STEEL PROCESS. THE RAM SLEEVE OR OUTER BARREL WILL BE SUCH THAT THE ROD PACKING MAY BE MAINTAINED OR REPLACED AS REQUIRED. A POSITIVE STOP MUST BE INCORPORATED THAT WILL HELP PREVENT MECHANICAL PRESSURE BEING APPLIED TO THE PACKING WHEN THE ROD IS FULLY EXTENDED. THE CYLINDER SHALL BE CAPABLE OF 14,137 POUNDS OF THRUST @ 2,000 PSI AND 16,000 POUNDS OF BURSTING PRESSURE @ 2,000 PSI. MINIMUM WEIGHT OF THE CYLINDER SHALL BE 28 POUNDS. PORTS TO BE 3/8". THE HITCH SHALL HAVE TWO 6"X4"X3/8"</p>	

EQUIPMENT SPECIFICATION	STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION 78-01 Hvy Duty	02/2010
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	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	<p>ANGLES TO BE WELDED TO THE VERTICAL TUBES AND PROJECT OUTWARD TO MOUNT AN 8" @ 11.5# CHANNEL BUMPER. BUMPER TO PROTECT FRONT MOUNTED PUMP. THERE SHALL BE TWO EACH 1/2"X5"X13" LONG GUSSETS WELDED TO VERTICAL TUBES AND BUMPER MOUNTING ANGLE. THERE SHALL BE TWO EACH 1/2" X 5" X 5" LONG GUSSETS WELDED TO BOTTOM SIDE OF BUMPER MOUNTING ANGLE & VERTICAL TUBES. TOP ANGLE TO BE 4"X3"X1/2"X33-3/4" LONG. TOP ANGLE WELDS TO BOTH VERTICAL TUBES. WELDED TO TOP ANGLE WILL BE FOUR EACH 1/2"X3"X6-1/4" EARS FOR LIFT ARM.</p>	<p>see attached drawing 122521</p> <hr/>

PAINT:

All exposed Metal shall be primed and painted with a protective Metal Primer; then painted Oklahoma Department of Transportation Yellow to comply with Federal Standard #595, Chrome Yellow Enamel #13432, DuPont #93-75306, School Bus Yellow or equal in color, shade and tone.

INSPECTION AND DELIVERY OF EQUIPMENT TO COMPLY WITH VENDOR'S INSTRUCTION SHEET.

MANUALS & PARTS BOOKS:

Successful bidder shall furnish one (1) Operators Instruction Manual for each plow. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more plows.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered with each unit delivered.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-01 Hvy Duty**

02/2010

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESES SPECIFICATIONS.

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- b) Consideration in awarding bids shall be given to parts and service availability.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid, in the Vendor's Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO: _____

DEALER: TOTAL TRUCK & TRAILER, LLC DATE: 02/10/2016

SIGNATURE: *Dwight D. Anderson* PHONE: 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Freight to Total Truck & Trailer included in pricing:
RSP 11 x 42J \$6,516.18
Hitch \$3,599.55

KENNAMETAL CARBIDE TUNGSTEN INSERT SPECIFICATIONS [2010-2011]

Specifications for Carbide Insert Snow Plow Blades:

A - Blade

1. Blade shall be (SAE 1020) flat steel (3/4" x 5"); (3/4" x 6"); (7/8" x 5") x (24"; 36"; 48"; 60"; 72") x (+0"/-1/16" length).
2. Punching shall be 11/16" round holes for (5/8") bolts; or 13/16" round holes for (3/4") bolts.
3. Location of holes shall be per customer's requirements.
4. Tolerance for hole spacings shall be (+/-) 1/16", non-accumulative, from center to center, across full length of blade.
5. The groove for the carbide inserts shall be milled in the center of blade edge.

B - Carbide Inserts

1. The tungsten carbide insert shall be of trapezoidal design, with the following dimensions:
Length: 1" nominal
Width: .365" (+/-) .005"
Height: .635" (+/-) .005"
Bottom Angle: 25 degrees (+/-) 1 degree with nose radius of 1-1/6" minimum.
Optional Insert Dimensions:
Length: 1" nominal
Width: .365" (+/-) .005"
*Height: .750" (+/-) .005"
Bottom Angle: 25 degrees (+/-) 1 degree with nose radius of 1-1/6" minimum.
2. The inserts shall be a high shock WC grade of tungsten carbide with (11 to 12-1/2) percent cobalt content.
Density: 14.1 Minimum to 14.6 Maximum
Hardness: 87.5 Minimum to 89.0 Maximum RC. "A" Scale
Transverse Rupture Strength (P.S.I.): 350,000 Minimum
Porosity: (Based on testing in accordance with ASTM designation B276-79)
(A06 - B00 - C00)
3. The carbide insert manufacturer to furnish certification to customer that the inserts meet the specifications as set forth in B-2.
4. A Metallurgical evaluation of the carbide insert shall show no evidence of cross grade contamination. Evaluation to be based on a photomicrograph of a polished and etched specimen at 500X magnification.

C - Braising

1. The Carbide Inserts shall be brazed on all sides with sound brazing practice, having no evidence of voids, with minimum shear strength of 30,00 PSI. The filler material must not contain any cadmium.
2. The Carbide Inserts shall be placed in line within the milled groove. Spacing shall be no more than .010" between inserts the entire length of cutting edge.

D - Finished Product

1. Complete snow plow blade lengths (24", 36", 48", 60", 72") shall consist of 1" length inserts determined by blade length (Sec: D-2).
2. Carbide tip point shall not exceed 1" length of Carbide Insert for each 1" length of blade section.
3. Finished blade shall comply with standard blade manufacturing tolerances.
4. Finished blade will be given one coat of rust resistant paint and marked with manufacturer's identification and date of manufacture. Front edge of blade will be marked to avoid improper mounting.
5. Manufacturer's literature or certifications showing physical properties of grade carbide proposed shall be furnished as required.

E - Manufacturing In The USA

1. Product shall be manufactured entirely in the United States of America

MHL SYSTEMS INTERLOCKING SNOW PLOW BLADES INCLUDING KENNAMETAL INC CARBIDE TUNGSTEN INSERT BLADES & SPECIFICATIONS

WARRANTY & BREAKAGE GUARANTEE:

MHL Systems Warranty states that we guarantee all materials against breakage during the complete wear-life of the Snow Plow Blade. If any part of the (MAG/500) Interlocking material or any welded area breaks while there remains Carbide Tungsten Inserts to be worn, the blade will be replaced along with the adjacent blades which make up the entire length of the Snow Plow Blade. Example: Should one 4-ft MHL Interlocking Carbide Snow Plow Blade break which is a section of a 12-ft Snow Plow Blade consisting of three (3) pcs x 4-ft, MHL Systems will replace all three (3) Carbide Blades making up the 12-ft original Snow Plow Blade. This is an unconditional warranty which helps MHL Systems to stand alone as there are no other manufacturers using this Warranty policy.

1. All MHL Interlocking Snow Plow Blades must consist of Attached Kennametal Carbide Tungsten Insert Specifications. Length & Size to be Determined.
2. The Standard Interlocking Blades use an (MAG/500) Wear-Material that is (3/4") thick x 4" wide. It is positioned so that the abrasion-resistant Carbide Inserts receive maximum protection. The design prevents loss of the Carbide Inserts and Premature failure of the Carbide Blade.
3. A unique feature of our Interlocking Carbide Tungsten Insert Snow Plow Blades is the (MAG/500) can be produced with or without Embedded Carbide Casting. These are Casting segments that are welded into areas of the (MAG/500) which provide additional Wear-life to the section where the blade with castings is installed.
4. The blades that use Embedded Carbide Castings can be positioned on the Snow Plow so that additional Wear-Life can be provided in any section of the Snow Plow. Therefore, a snow plow with a history of wearing more in a certain area can have the section with the Embedded Casting installed in that area to provide additional wear.
5. Because the top edge of the (MAG/500) Material is positioned above the top edge of the Carbide Inserts, all of the Carbide can be consumed in each blade throughout the entire length of the Snow Plow. There is less to throw away and waste is minimized when the blade is finally worn out.
6. Each 2-ft, 3-ft, 4-ft, 5-ft, & 6-ft blade section is fabricated with (authentic & verified) Interlocking Joints that provide greater strength at the locations where the blades are joined together. This ensures the blade is uniformly strong throughout the entire length.
7. The "V-Grooves" for welding are provided for each blade. These also serve as "Wear-Indicators" and enable the operator or maintenance crew to see at a glance how much Carbide is left in each blade.
8. The 3-ft, 4-ft, 5-ft, & 6-ft blades are either 5" or 6" wide and easy to handle when being installed or changed. The Plow Bolts used are also shorter than the Plow Bolts used in typical Carbide Blades with ordinary Impact Blades, requiring less labor and cost.

KENNAMETAL CARBIDE TUNGSTEN INSERT SPECIFICATIONS [2010-2011]

Specifications for Carbide Insert Snow Plow Blades:

A - Blade

1. Blade shall be (SAE 1020) flat steel (3/4" x 5"); (3/4" x 6"); (7/8" x 5") x (24"; 36"; 48"; 60"; 72") x (+0"/-1/16" length).
2. Punching shall be 11/16" round holes for (5/8") bolts; or 13/16" round holes for (3/4") bolts.
3. Location of holes shall be per customer's requirements.
4. Tolerance for hole spacings shall be (+/-) 1/16", non-accumulative, from center to center, across full length of blade.
5. The groove for the carbide inserts shall be milled in the center of blade edge.

B - Carbide Inserts

1. The tungsten carbide insert shall be of trapezoidal design, with the following dimensions:
Length: 1" nominal
Width: .365" (+/-) .005"
Height: .635" (+/-) .005"
Bottom Angle: 25 degrees (+/-) 1 degree with nose radius of 1-1/6" minimum.
Optional Insert Dimensions:
Length: 1" nominal
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*Height: .750" (+/-) .005"
Bottom Angle: 25 degrees (+/-) 1 degree with nose radius of 1-1/6" minimum.
2. The inserts shall be a high shock WC grade of tungsten carbide with (11 to 12-1/2) percent cobalt content.
Density: 14.1 Minimum to 14.6 Maximum
Hardness: 87.5 Minimum to 89.0 Maximum RC. "A" Scale
Transverse Rupture Strength (P.S.I.): 350,000 Minimum
Porosity: (Based on testing in accordance with ASTM designation B276-79)
(A06 - B00 - C00)
3. The carbide insert manufacturer to furnish certification to customer that the inserts meet the specifications as set forth in B-2.
4. A Metallurgical evaluation of the carbide insert shall show no evidence of cross grade contamination. Evaluation to be based on a photomicrograph of a polished and etched specimen at 500X magnification.

C - Braising

1. The Carbide Inserts shall be brazed on all sides with sound brazing practice, having no evidence of voids, with minimum shear strength of 30,00 PSI. The filler material must not contain any cadmium.
2. The Carbide Inserts shall be placed in line within the milled groove. Spacing shall be no more than .010" between inserts the entire length of cutting edge.

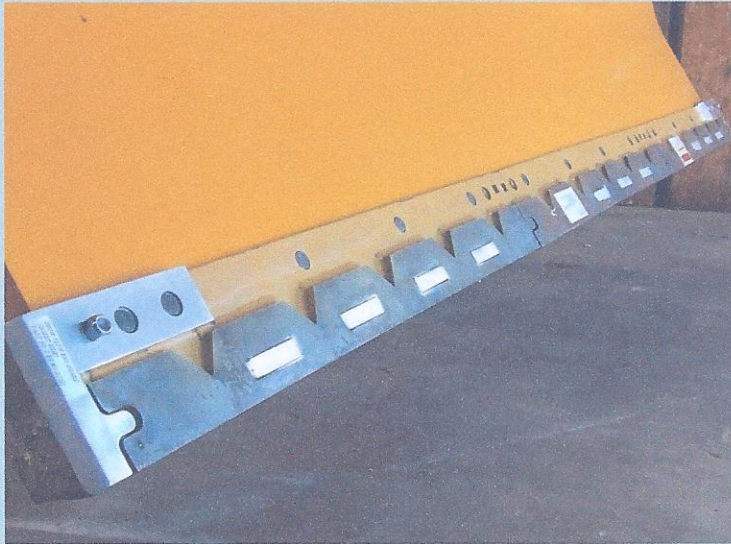
D - Finished Product

1. Complete snow plow blade lengths (24", 36", 48", 60", 72") shall consist of 1" length inserts determined by blade length (Sec: D-2).
2. Carbide tip point shall not exceed 1" length of Carbide Insert for each 1" length of blade section.
3. Finished blade shall comply with standard blade manufacturing tolerances.
4. Finished blade will be given one coat of rust resistant paint and marked with manufacturer's identification and date of manufacture. Front edge of blade will be marked to avoid improper mounting.
5. Manufacturer's literature or certifications showing physical properties of grade carbide proposed shall be furnished as required.

E - Manufacturing In The USA

1. Product shall be manufactured entirely in the United States of America

MHL Systems***P.O. Box 71112
SLC, UT 84171-1112*****Tele: 800-999-7517



(Above): Left-Side (MAG-500) Carbide Casting End Guard with Maximum-Duty Attachment Bracket. End Guards are Manufactured with Various Degrees of Wear-Angle Depending on Customers Needs.

Above: Oklahoma Turnpike Authority (OTA) 12-ft MHL Interlocking (MAG/500) Snow Plow Blade with Right-End Guard

(Photo-Right):

(OTA) 11-ft Interlocking (MAG/500) Carbide Insert Snow Plow Blade Installed in (2003).

In Fall of (2006), this MHL Interlocking Carbide Insert Blade Still Had (25%) of the Total Wear-Life Left in the Blade System.

In January of (2007), (OTA) Determined that MHL Interlocking Carbide Tungsten Insert Blades Out-Lasted Other Brands by [2:1] Margin.



HEAVY DUTY SPREADER
HOPPER TYPE
FOR DUMP BED MOUNTING

GENERAL: Completely self-contained, ultra durable spreader unit designed for ice and snow control. The design allows for use with salt, sand and other materials. The complete assembly mounts easily on pickup, dump and platform trucks making it ideal for municipalities, shopping malls, industries, hospitals and private contractors. This spreader must be completely assembled, serviced and ready to operate when it is installed in a State owned dump truck. This spreader must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Buyers 1400601SS Electric Powered Pintle chain & Spinner

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

VENDOR'S PROPOSED SPREADER: MAKE: Henderson MODEL: FSP-8-ELEC BASE PRICE: \$8,487.63

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>HOPPER BODY:</u>	"V" Type Box, all Welded 304	per spec
	113", approx. 1.8 cubic yards capacity	113" 2.0 CY
<u>SECUREMENT:</u>	4 – 2" ratchet straps	per spec
<u>DISCHARGE CHUTE:</u>	304 stainless steel, rearward end mounts. Adjustable height extension with SS bolts	fixed height 14.5" standard 26.5" height optional
<u>COMPONENTS:</u>	All necessary hardware to be stainless steel	per spec
<u>OVER-ALL-HEIGHT:</u>	33 " above truck bed floor	per spec

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-3/4 ton**

02/2012

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>OUTSIDE WIDTH:</u>	47" maximum	50 1/2"
<u>DRIVE MOTORS:</u>	Two ultra-quiet 12-volt DC direct-drive motors power the conveyor and spinner, and are encased in a heavy-duty housing. The wiring harness is constructed of 10-gauge automotive wire with non-combustible sheathing (-50°C to -105°C). An in-cab console features independent controls for the conveyor and spinner.	per spec
<u>SILLS:</u>	304 stainless steel	per spec
<u>FRONT & REAR:</u>	Rollover lips	per spec
<u>WIPERS:</u>	Front & rear required	rear wiper only
<u>CROSS SILLS:</u>	304 stainless steel welded to sills and side supports	cross sills not provided-not Henderson standard
<u>SIDE SUPPORTS:</u>	304 stainless steel welded to sides, sills and cross sills	per spec
<u>SIDES:</u>	304 stainless steel 45°	per spec
<u>LIFTING LOOPS:</u>	4 each, 1 near each outside corner	per spec
<u>FEED GATE ASSEMBLY:</u>	304 stainless steel Lever operated with a friction lock for	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION 15-3/4 ton

02/2012

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	accurate adjustment.	per spec
Feed Gate Opening	Maximum 12" high by 18" wide	4" high x 8" wide
Controlled Spread	From 2' to 30'	per spec
Disc	An 11.5" polymer disc with four fins is connected to a 3/4" diameter shaft secured on the pillow block and motor bearing.	13" poly disc
Screens:	1/4" black powder coated steel top screen	1/4" angles with #9 expanded metal mesh screen
<u>Warranty:</u>	Manufacturer's standard with coverage complete on all components.	Yes
<u>OPTION 1:</u> Installation	In the state of <u>Oklahoma</u> by a <u>qualified up fitter</u> .	\$ Dealer \$800.00
<u>OPTION 2:</u>	Variation to larger or smaller Spreader	%Off List <u>Dealer to determine</u> 5%
<u>OPTION 3:</u>	Different Hopper Material	5% %Off List <u>Dealer to determine</u>
<u>OPTION 4:</u>	Gas Powered Units	5% %Off List <u>Dealer to determine</u>

Total weight of this complete unit: **1000 lbs. (approximate)**

1000 lbs approximate

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **15-3/4 ton**

02/2012

Successful bidder must furnish this unit complete with all components including necessary hardware, etc.

NOTE:

Inspection and/or correction of items listed on the inspection and pre-delivery form are considered a part of this specification; also considered part of selling dealer's new equipment preparation and handling cost, if he contracts the new equipment pre-delivery service inspection out to another authorized dealer, the selling dealer is still liable to all terms of the specification and purchase order except for those corrective operations previously established as eligible for warranty reimbursement according to the current warranty and policy procedure manual.

Special Requirements:

The successful bidder shall provide to the receiving division, factory spreader specifications and dimensions and request bed dimensions prior to ordering spreaders.

PAINT: (Non Stainless Components Only)

All exposed metal shall be Powder Coated.

Specify color used stainless steel

WARRANTY: One Year / from date of delivery.

SERVICE AND PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- B. Consideration in awarding bids shall be given to parts and service availability.

MANUALS AND PARTS BOOK:

Successful Bidder shall furnish one (1) Operators Instruction Manual for each machine. In addition, one (1) Parts Book and one (1) Repair manual shall be furnished to each Division purchasing one or more machines.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

COMPLIANCE:

Bidder shall furnish a statement in writing on the bid or by attached letter, and in the Vendor's Statement below, if his equipment proposed strictly meets these specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO: _____

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION 15-3/4 ton

02/2012

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: *Dwight D. Anderson* DATE: 02/10/2016

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Please use a different sheet for each Brand and Model bid on.

Freight to Total Truck & Trailer included in price: \$ 8,487.63

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-¾ Ton**

02/2012

**SNOW PLOW
FRONT MOUNTED REVERSIBLE
WITH SAFETY TRIP
¾ Ton & 1 Ton Trucks**

GENERAL: This snow plow shall be adequate for a single or dual axle truck and must be new and the manufacturer's latest current model complete with all standard accessories and warranty for the make and model indicated below.

For Comparison Only: Buyers EX75 w/Plow Hitch, Truck Portion Hitch & Light Adapter

**FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION. FAILURE TO COMPLY
COULD RESULT IN BID REJECTION.**

No bid

VENDOR'S PROPOSED SNOW PLOW: MAKE: _____ MODEL: _____ Base Price: \$_____

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>Plow:</u>	.105 gauge Stainless Steel Moldboard 31" x 7'6"	_____
	9 each 1/4" Laser cut steel ribs	_____
	Integral Snow shield	_____
	Blade size ½" x 6" x 7'6"	_____
	70% Attack angle/cutting width 78"	_____
	4 Stress-optimized trip springs	_____
	Plow Markers at each end	_____
	Covered power unit and hydraulics	_____

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-¾ Ton**

02/2012

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>LIFT FRAME:</u>		
	Lift Arm - 35 degree travel provides exceptional snow stacking	_____
	Quick attach/detach mounting	_____
	powerful, dual beam halogen plow lights with secure double post mounts	_____
	Adjustable/removable jack stand	_____
	Contoured lift frame	_____
<u>TRUCK PORTION HITCH:</u>	End user will provide Make & Model of Vehicle to be installed on	_____
	When Plow removed lights and lift frame are <u>NOT</u> on truck	_____
<u>LIGHT ADAPTERS:</u>	End user will provide Make & Model of Vehicle to be installed on	_____
<u>CONTROLLER:</u>	Hand Held Remote control	_____
Weight of Moldboard & Lift frame	745 lbs	_____
Capacity:	Adequate for 8500-10,000 lbs.,	

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-¾ Ton**

02/2012

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
	GVWR truck	_____
Pushframe & Hitch	Show make	_____
	Show Model	_____
Misc. Parts & Instructions for Assembly & Mounting	Each snow plow unit must be complete with all necessary hardware, fittings and instructions with drawings for proper assembly and truck installation	_____
<u>OPTION 1:</u> Installation	In the state of Oklahoma by a qualified up fitter.	\$ _____
<u>OPTION 2:</u> Accessories or	Variation to larger or smaller plows	\$ _____

PAINT:

All exposed Metal shall be black powder coat unless it is Stainless

INSPECTION AND DELIVERY OF EQUIPMENT TO COMPLY WITH VENDOR'S INSTRUCTION SHEET.

MANUALS & PARTS BOOKS:

Successful bidder shall furnish one (1) Operators Instruction Manual for each plow. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more plows.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered with each unit delivered.

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION **78-¾ Ton**

02/2012

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESES SPECIFICATIONS.

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where an adequate stock of current parts and service are available.
- b) Consideration in awarding bids shall be given to parts and service availability.

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid, in the Vendor's Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: _____ NO: _____

DEALER: TOTAL TRUCK & TRAILER, LLC **DATE:** 02/10/2016

SIGNATURE: Dwight D. Anderson **PHONE:** 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

Please use a separate sheet for each brand and model bid.

No bid

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

Brine Maker

GENERAL: This specification describes a Brine Making System is to be used in the making of Salt Brine used in snow and ice control operations.

For Comparison Only: Varitech Industries Model SB600

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>Brine Maker</u>	<p>1.0 Scope: This specification covers requirements for Salt Brine Production Systems (SBPS) intended for use as a generator of quality salt brine that is used as a prewetting, anti-icing, and/or a de-icing agent on pavement or roadways.</p> <p>2.0 Dimensions: Model # SB600 - 62" W X 62" H X 119" Long</p> <p>3.0 Storage/Holding Capacity (U.S. Gallons): Main Tank Hopper Tank Total Model SB600 600 800 1400 Rock Salt Holding Capacity (Cubic Yards) Model SB600.....3.68</p> <p>4.0 Production Rate: Model SB600.....3600 Gallons Per Hour (Based on Customers Water Supply)</p> <p>5.0 Materials: The salt brine production systems shall be comprised of rotationally molded, one-piece tanks. Rotationally molded polyethylene SBPS tanks shall be manufactured from a polyethylene compound that conforms to the following properties....Density- ASTM D-1505 .942 g/cm3</p>	<p>Comply <u>per spec</u></p> <p>Henderson Brine Extreme Pro</p> <p>Comply <u>per spec</u></p> <p>Comply <u>166" W x 63" H x 55" D</u></p> <p>Comply <u>exceed 4.67</u></p> <p>Comply <u>exceed 6000</u></p> <p>Comply <u>exceed 201SS construction</u></p>

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

Melt Index- ASTM D-1238 2.0 g/10min.
Tensile Strength- ASTM D-638 2,700 PSI
Flexural Modulus- ASTM D-790 103,000 PSI
Low Temp Impact- ARM-Low Impact (1/4") 175 ft. lbs.

Main Salt Brine Tank:

Rotationally molded one piece (no welds, joints, or seams) polyethylene plastic tank- UV stabilized to provide protection from sunlight- 5/8" nominal thickness- Open floor with interior rib to prevent any type of tank bulging - Pitched bottom to lower sump area provides total drainage- 3" schedule 80 PVC drain pipe with threaded plug end

Hopper/Rock Salt Tank:

Rotationally molded one - piece (no welds, joints, or seams) polyethylene plastic tank-UV stabilized to provide protection from sunlight- 5/8" nominal thickness-Open floor (No interior floor ribs to hinder cleaning)- Pitched bottom to lower sump area provides total drainage- 6" schedule 80 PVC drain pipe with threaded plug end- Full length 1 1/2" PVC water in-feed manifold provides even filling and salt saturation

Secondary Containment Tank:

Rotationally molded one piece (no welds, joints, or seams) polyethylene plastic tank- UV stabilized to provide protection from sunlight- 5/8" nominal thickness- Self supporting, molded in vertical support ribs

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

and 3" high skid bottoms
provide easy forklift entry-
Requires no complex saddling
or support structures- 2-1" PVC
threaded plug drain fittings-
Minimum 110% containment
capacity

**6.0 Plumbing and Plumbing
Components:**

Epoxy coated cast iron effluent
ejector pump- UL Listed -
thermal overload protected, oil
filled motor- 1/2 HP- 110 GPM
at 0 head/ft. - 1 1/2" discharge -
manually controlled by a 25'
remote waterproof toggle
switch. Water service piping is
1 1/2" PVC throughout entire
system- Water service is
controlled by a 1 1/2" Glass
filled polypropylene, non-
electric hydraulic diaphragm
valve- automatically controls
the water infeed to the hopper
tank and maintains the level of
brine in the main tank.

- 1 1/2" PVC water infeed and
salinity dilution ball valves- One
piece sealed unit requires no
adjustments- EPDM O-ring
seals and Teflon seats.

- Plastic float valve controls
water to the diaphragm valve-
Non-hammering- Valve body is
celcon plastic with Buna-N
plunger.

- 2-3" Brine overflow pipes to fill
main brine tank- 1 1/2" PVC
salinity dilution piping
connected to the overflow pipes
provide fine-tuning of salinity
percentage adjustments.

2-6" Round stainless steel
overflow screens- #8 mesh

Comply _____ per spec

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

1 1/2" glass filled polypropylene quick disconnect cam lock coupling from pump discharge.

7.0 Electrical Service:

Entire electrical service to SBPS is protected from hazardous shock through a 15 Amp, 110VAC Ground Fault Interrupter Circuit Receptacle with trip and reset- Enclosed in a waterproof outdoor service PVC plastic junction box and weatherproof plastic outlet cover. 25" 16/3 AWG outdoor, waterproof 15 Amp, 110VAC remote toggle switch to pump- Watertight plastic strain relief connectors on both ends of remote cable.

8.0 Installation:

Installation of SBPS is accomplished by connection to the 2" PVC threaded male end of the water infeed piping to customer supplied water service- Electrical connection is made by plugging in the power service cord equipped on the SBPS to the customer supplied, electrically adequate power supply- See instructions manual for detailed start-up, operational and maintenance information.

8.0 Warranty:

The unit shall be warranted for a period of 1 year from the date of purchase. The only exception to this would be the tank warranty, which would extend for a period of 2 years.

Comply _____ per spec _____

Comply _____ per spec _____

Comply _____ per spec _____

\$ 35,774.42 _____

OPTION 1:
Automation

Upgrade to an automated unit in lieu of manual.

\$ 36,847.57 _____

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

OPTION 2:

Accessories or

Variation to larger tank

List Price Less % Discount

\$ Dealer to determine

NOTE:

END USER WILL SUPPLY FOUNDATION, ELECTRICITY, AND WATER SUPPLY TO BE USED WITH BRINE MAKER

INSPECTION AND DELIVERY OF EQUIPMENT MUST BE IN ACCORDANCE WITH VENDOR'S INSTRUCTION SHEET.

SPECIFICATIONS:

Each Bidder shall submit complete Manufacturer's Specifications in duplicate and shall submit all other Data to show that his proposal meets these Specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

PAINT:

All exposed metal shall be Powder Coated or Stainless steel.

PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where parts can be ordered.
- B. Consideration in awarding Bids shall be given to Parts and Service availability.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered, with each Unit delivered.

MANUALS AND PARTS BOOKS:

Successful Bidder shall furnish one (1) Operator's Instruction Manual for each Spreader. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more spreaders.

VENDOR SHALL FILL IN ALL SPACES UNDER VENDOR'S PROPOSAL; FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

COMPLIANCE:

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

Bidder shall furnish a statement in writing on the Bid or by attached letter and in the Vendor's Statement below if his Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: ✓ NO:

DEALER: TOTAL TRUCK & TRAILER, LLC PHONE: 405-329-3765

SIGNATURE: Dwight D. Anderson DATE: 02/10/2016

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

GRADER BLADES

High carbon blades steel producing the following analysis:

Carbon:	.80 - .93
Manganese	.60 - .90
Phosphorous:	.04 maximum
Sulfur:	.05 maximum
Silicon:	.35 maximum

<u>DESCRIPTION:</u>	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
<u>Grader Blade:</u>	Standard punching, 5/8" x 8" curved double bevel, weight per ft 15.6 lb. (Specify lengths 6', 7', 8', 9')	No Bid
<u>Grader Blade:</u>	Standard punching, 5/8" x 6" curved double bevel, weight per ft 11.7 lb. (Specify lengths 6', 7', 8', 9')	No Bid
<u>Grader Blade:</u>	Standard punching, 3/4" x 8" curved double bevel, weight per ft 18.4 lb. (Specify lengths 6', 7', 8', 9')	No Bid
<u>Snow Plow Blade:</u>	Standard punching, snow plow blades, 1/2" x 6" flat, square edged, weight per ft 10.27 lb. (Specify lengths 10', 11', 12')	No Bid

WARRANTY: One Year / From Date of Delivery

SPECIFICATIONS:

Each Bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

COMPLIANCE:

Bidder Shall furnish a statement in writing on the Bid or by attached letter, and in the Vendor's Statement below, if his equipment proposed strictly meets these Specifications. If not, he shall list each variation therefrom.

INSPECTION AND DELIVERY OF EQUIPMENT MUST COMPLY WITH VENDOR'S INSTRUCTION SHEET.

SPECIAL REQUIREMENTS:

Successful bidder will provide at no additional cost a technical representative to instruct the receiving divisions in the proper care, maintenance, and operation of the machine.

VENDOR'S STATEMENT: (Equipment Proposed Complies:) **YES:**_____ **NO:**_____

DEALER:_____ TOTAL TRUCK & TRAILER, LLC **DATE:**_____ 02/10/2016

SIGNATURE:_____ *Dwight D. Anderson* **PHONE:**_____ 405-329-3765

ADDRESS:_____ 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

KENCOAT GRADER BLADES OR EQUAL

No Bid

DESCRIPTION:

MINIMUM REQUIREMENTS

VENDOR'S PROPOSAL

Blade:

Blade shall be 7/8" thick x 5" wide, flat hot-rolled finished steel to meet or exceed specifications for 1040 type steels. The top edge of the blade to be beveled as per the attached diagram. The length of the blade will be either 36" or 48" long as specified by the user. The tolerance on the length of the blade will be +0", -1/16" to insure the blades will fit on the grader moldboard when used in sets in combination with other blades

Punching shall be 11/16" square holes with countersink to receive 5/8" diameter plow bolts. Hole punching to be "standard highway punched: (end 2 holes on each end of blade on 3" centers and remaining holes 12" spaced center to center across the middle of the blade) as per the attached diagram.

The groove for the carbide inserts shall be milled in the center of the blade edge

Center of holes shall be in line within 1/32" of established horizontal center-line and 1/16" of established vertical centerline

TUNGSTEN CARBIDE INSERTS:

The inserts shall be a high stock WC grade of tungsten carbide with (11 to 12 1/2) percent cobalt content

Density: 14.1 Minimum to 14.6 Maximum

<u>DESCRIPTION:</u>	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
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Hardness: 87.0 Minimum to 89.0
Maximum Rc. "A" Scale

Transverse Rupture Strength
(p.s.i.): 350,000 Minimum

Porosity: (Based on testing in accordance
with ASTM designation B276-79)

A06
B02
C00

The inserts shall be a trapezoid
design of the following dimensions:

Height: .635" +/- .005 (long side)

Width: .365" +/- .010

Length: 1" nominal

Bottom Angle: 25 degrees with a
nose radius of 1/16" minimum

A metallurgical evaluation of the carbide insert shall show no evidence of cross grade contamination. Evaluation to be based on a photomicrograph of a polished and etched specimen at 500x magnification.

BRAZING:

The inserts shall be brazed securely in
place along the entire length of the blade
using an alloy type braze material and
an induction brazing process

The tungsten carbide inserts shall be
positioned in the milled groove at
approximately .010 between the inserts
the entire length of each cutting edge
section

DESCRIPTION:

MINIMUM REQUIREMENTS

VENDOR'S PROPOSAL

The inserts shall be brazed on all sides consistent with sound brazing practice with no evidence of voids or use of shims

Each blade section to contain one insert one inch nominal length for each inch of blade section length. Due to the thickness of the braze joints between inserts it may be necessary for several inserts to be slightly shorter or longer than the nominal 1" length to insure the carbide insert runs the entire length of the blade without protruding from the end of the steel body

CARBIDE IMBEDDING:

A protective layer of -10, +20 (mesh size) crushed carbide granules imbedded in a weld deposit shall be applied to the lower portion of the blade in front of the carbide inserts. The protective layer shall be a minimum of 1" wide and .188" thick (+/- .060")

SPECIFIC REQUIREMENTS:

The finished blade section shall be free of warpage and longitudinal deviation not to exceed 1/8" in a four-foot blade section

Each blade section shall be identified with manufacturer's identification stamp in an area of the blade not subjected to wear so that it will not be destroyed during the use of the blade

The finished blade sections shall have marking showing the front edge of the blade to avoid improper mounting

SPECIFICATIONS:

Each Bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

COMPLIANCE:

Bidder Shall furnish a statement in writing on the Bid or by attached letter, and in the Vendor's Statement below, if his equipment proposed strictly meets these Specifications. If not, he shall list each variation therefrom.

INSPECTION AND DELIVERY OF EQUIPMENT MUST COMPLY WITH VENDOR'S INSTRUCTION SHEET.

SPECIAL REQUIREMENTS:

Successful bidder will provide at no additional cost a technical representative to instruct the receiving divisions in the proper care, maintenance, and operation of the machine.

VENDOR'S STATEMENT: (Equipment Proposed Complies:) **YES:** _____ **NO:** _____

DEALER: TOTAL TRUCK & TRAILER, LLC **DATE:** 02/10/2016

SIGNATURE: Dwight D. Anderson **PHONE:** 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

No Bid

KENNAMETAL GRADER CUTTING EDGES OR EQUAL

No Bid

<u>DESCRIPTION:</u>	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
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Blade:

Blade shall be 7/8" thick x 5" wide, flat hot-rolled finished SAE 1040 steel or equal

Punching shall be 11/16" square holes with countersink to receive either 5/8" or 3/4" diameter plow bolts as required. Location of holes to be in accordance with AASHTO standards for "heavy-duty" punching.

The groove for the carbide inserts shall be milled on the blade edge in accordance with attached drawing

Center of holes shall be in line within 1/32" of established centerline

The tolerance on the length of the steel portion of the blade to be +0.0/-0.06"

TUNGSTEN CARBIDE INSERTS:

Face inserts to be grade SP341 formulated using Macrocrystalline type WC manufactured via the menstrum process and yielding a stoichiometric composition

Face Insert Characteristics:

Hardness of Face Inserts: 83.5 – 85.0 Rockwell A

Tranverse Rupture Strength: 330,000 psi min.

Density: 13.25 – 13.65 (grams/cm)

<u>DESCRIPTION:</u>	<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSAL</u>
---------------------	-----------------------------	--------------------------

Center Inserts to be a high shock WC
grade of tungsten carbide with
11 to 12 ½ percent cobalt content

CENTER INSERT CHARACTERISTICS:

Hardness: 87.5 – 89.0 Rockwell A
Density: 14.1 – 14.6 (grams/cm)
Transverse Rupture Strength:
350,000 psi min

FACE INSERT DIMENSIONS:

Height: .745" +/- .005
Width: .310" +/- .010
Length: 2.0" Nominal

CENTER INSERT DIMENSIONS:

Height: .635" +/- .005 (long side)
Width: .365" +/- .010
Length: 1.0" Nominal
Bottom Angle: 25 degrees with a
nose radius of 1/16" min.

The carbide insert manufacturer to furnish certification to the requisitioning agency that face and center inserts meet all specifications as set forth.

BRAZING:

Brazing material shall be a high
strength alloy type

The inserts shall be brazed in place
using induction brazing consistent
with sound brazing practice with no
evidence of voids in the braze joint

WARRANTY: One Year / From Date of Delivery

Each Bidder shall submit complete manufacturer's specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

COMPLIANCE:

Bidder Shall furnish a statement in writing on the Bid or by attached letter, and in the Vendor's Statement below, if his equipment proposed strictly meets these Specifications. If not, he shall list each variation therefrom.

INSPECTION AND DELIVERY OF EQUIPMENT MUST COMPLY WITH VENDOR'S INSTRUCTION SHEET.

SPECIAL REQUIREMENTS:

Successful bidder will provide at no additional cost a technical representative to instruct the receiving divisions in the proper care, maintenance, and operation of the machine.

VENDOR'S STATEMENT: (Equipment Proposed Complies:) **YES:**_____ **NO:**_____

DEALER: _____ **DATE:** 02/10/2016

SIGNATURE: _____ **PHONE:** 405-329-3765

ADDRESS: 4200 S. HARVEY AVE. NEWCASTLE, OK 73065

No Bid