CITY OF NOVI CITY COUNCIL September 23, 2019



SUBJECT: Consideration of approval to purchase two (2) 2020 International single-axle dump trucks and one (1) 2020 International tandem-axle swaploader truck from Tri-County International through the State of Michigan MiDeal contract; and the upfits to be completed by Truck and Trailer Specialties through the City of Rochester Hills RFP contract, in the amount of \$785,113.

SUBMITTING DEPARTMENT: Department of Public Works

EXPENDITURE REQUIRED	\$ 232,312 (101-442.20-984.019)	
	\$ 232,312 (101-442.20-984.020)	
	<u>\$ 320,489 (592-592.00-984.018)</u>	
	\$ 785,113	
AMOUNT BUDGETED	\$ 232,312 (101-442.20-984.019)	
	\$ 232,312 (101-442.20-984.020)	
	<u>\$ 321,480 (592-592.00-984.018)</u>	
	\$ 786,124	
APPROPRIATION REQUIRED	\$0	
LINE ITEM NUMBER	101-442.20-984.019	
	101-442.20-984.020	
	592-592.00-984.018	

BACKGROUND INFORMATION

The Novi City Council appropriated funding this fiscal year for the purchase of two single-axle dump trucks with front plow, underbody scraper and wing blade. These heavy-duty trucks are for the day-to-day and winter maintenance operations for Roads and Drains. The new trucks will be equipped with same computer ground speed controls packages of the last eight previously procured trucks. The system allows for conservative salt use, operator convenience, and simplified data tracking. The new single-axle dump trucks (2020 International HV607 model) will replace (#698) a 1998 Ford and (#605) a 2001 Oshkosh.

The DPW Water and Sewer Division is purchasing one tandem-axle swaploader truck (2020 International 7600 SBA model) dedicated for water and sewer operations. This vehicle will haul piping, equipment and aggregates during maintenance and emergency repair operations. It will be replacing (#699) a 2000 Sterling. For all trucks, the estimated date of delivery is September 2020.

RECOMMENDED ACTION: Approval to purchase two (2) 2020 International single-axle dump trucks and one (1) 2020 International tandem-axle swaploader truck from Tri-County International through the State of Michigan MiDeal contract; and the upfits to be completed by Truck and Trailer Specialties through the City of Rochester Hills RFP contract, in the amount of \$785,113.

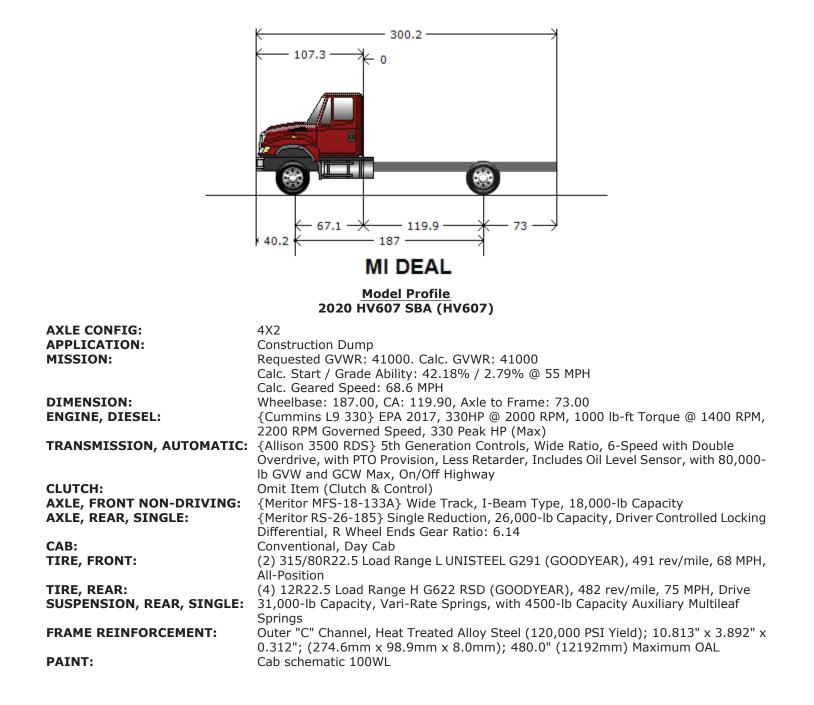
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June 11, 2019

Prepared For:

City of Novi Mike Rhatigan 45175 W 10 Mile Rd. Novi, MI 48375-3024 (248)735 - 5656 Reference ID: MIDEAL HV607 Presented By: TRI COUNTY INTL TRUCKS Jeremy Kast 3001 E HIGH ST JACKSON MI 49203 (517)783-2721

Tri County International Trucks. Inc./State of Michigan DTMB Contract 071B6600122, Specification #3958 0160D-Option B for a new 2020 MY International Truck Chassis per this proposal. Pricing includes all user specified option equipment costs and available discounts in effect as of date listed. Please note that the afforded pricing includes a 1% fee paid to the state of Michigan as required under this contract. Additional surcharge requirements as issued by the manufacturer may be applicable in the future.



Location 1: 2303, Red (Std) Chassis schematic N/A

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<u>Code</u>	Description	F/R Wt	
HV60700	Base Chassis, Model HV607 SBA with 187.00 Wheelbase, 119.90 CA, and 73.00 Axle to Frame.	(lbs) 6413/3469	(lbs) 9882
1570	TOW HOOK, FRONT (2) Frame Mounted	8/0	8
1572	TOW HOOK, REAR (2)	0/10	10
1ANA	AXLE CONFIGURATION {Navistar} 4x2	0/0	0
	Notes : Pricing may change if axle configuration is changed.		
1CBU	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL	22/221	243
1GBP	FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL	388/561	949
1LLK	BUMPER, FRONT Omit Item	-84/14	-70
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille	137/-32	105
1WGR	WHEELBASE RANGE 138" (350cm) Through and Including 187" (475cm)	0/0	0
2ARZ	AXLE, FRONT NON-DRIVING {Meritor MFS-18-133A} Wide Track, I- Beam Type, 18,000-lb Capacity	186/0	186
3ADG	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 18,000-lb Capacity, with Shock Absorbers	5/0	5
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications	0/0	0
	Includes : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic (with Air Cam Brakes) : SLACK ADJUSTERS, REAR Automatic (with Air Cam Brakes) : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6		
4193	BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers	26/0	26
4722	DRAIN VALVE {Bendix DV-2} Automatic, with Heater, for Air Tank	1/0	1
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)	0/0	0
4EBD	AIR DRYER {Wabco System Saver 1200} with Heater	8/3	11
4EVH	BRAKE CHAMBERS, REAR AXLE {MGM TR3030LP3TSHD} 30/30 Spring Brake	0/41	41
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn	18/0	18
4LAA	SLACK ADJUSTERS, FRONT {Haldex} Automatic	0/0	0

Code	Description	<u>F/R Wt T</u>	
4LGA	SLACK ADJUSTERS, REAR {Haldex} Automatic	(lbs) 0/0	(lbs) 0
4NDH	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 8.625" Includes 30/30 Sq.In. Long Stroke Brake Chambers and Spring Actuated Parking Brake	0/50	50
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM	0/0	0
4VHZ	AIR TANK LOCATION (2) Mounted Under Cab, Outside Left Rail, on Step Bracket, with Ground Clearance	0/0	0
4VKC	AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab	14/7	21
5708	STEERING COLUMN Tilting	14/1	15
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
5PTB	STEERING GEAR (2) {Sheppard M100/M80} Dual Power	60/-5	55
6DAX	DRIVESHAFT {Dana Spicer} SPL170XL in lieu of 1710 Series	0/0	0
7BEV	AFTERTREATMENT COVER Steel, Black	11/2	13
7BLG	EXHAUST SYSTEM Single, Horizontal Aftertreatment Device, Frame Mounted Right Side Under Cab, Includes Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab, for Improved Ground Clearance	131/34	165
7WAZ	TAIL PIPE (1) Turnback Type	0/0	0
7WDM	EXHAUST HEIGHT 10'	2/0	2
7WDN	MUFFLER/TAIL PIPE GUARD (1) Aluminum	0/0	0
7WZY	SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, On/Off Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in On Position	2/0	2
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
	Includes : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered		
8695	SNOW SHIELD (2) Chrome; for Dual Air Horns	2/0	2
8GXD	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type; 12 Volt 160 Amp. Capacity, Pad Mount, with Remote Sense	0/0	0
8HAB	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn	2/0	2

<u>Code</u>	Description	F/R Wt T (lbs)	ot Wt (lbs)
8НАН	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket	0/2	2
8HXT	HORN, AIR (2) Single Tone, Chrome, Roof Mounted, with Lanyard Pull Cord	0/0	0
8MSH	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (4) 12-Volt 2640CCA Total, Top Threaded Stud	55/51	106
8RGA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab	1/0	1
8RMH	BATTERY DISCONNECT SWITCH {Cole-Hersee 75920-06} 300 Amp; Battery Box Mounted, Disconnects Charging Circuits, Locks with Padlock	3/0	3
8RML	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/3.5MM Auxiliary Input, MP3, Apple Device Play & Control, Bluetooth for Phone & Music	4/0	4
8RMZ	SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars	6/2	8
8THJ	AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications	2/0	2
8VAY	HORN, ELECTRIC Disc Style	0/0	0
8VUJ	BATTERY BOX Steel, with Plastic Cover, 18" Wide, 2-4 Battery Capacity, Mounted Right Side Back of Cab	-34/11	-23
8VZR	SWITCH, BODY CIRCUITS, MID for Bodybuilder, 6 Momentary Switches in Instrument Panel; One Power Module with 6 Channels, 20 Amp Max. Per Channel, 80 Amp Max Output, Switches Control Power Module Through Multiplex Wiring, Mounted in Cab Behind Driver Seat	1/0	1
8WBW	JUMP START STUD Remote Mounted	2/0	2
8WDG	BACK-UP ALARM {Preco 1059} Electronic; Solid State, Dual Function, 112 dBA	0/1	1
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	0/0	0
8WMA	SWITCH, TOGGLE, FOR WORK LIGHT Lighted; on Instrument Panel and Wiring Effects for Customer Furnished Back of Cab Light	2/1	3
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	0/0	0
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection	8/0	8
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm	0/0	0

Code	Description	<u>F/R Wt</u> T	
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened	(lbs) 0/0	(lbs) 0
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
8XHR	POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) & USB Port, Located in the Instrument Panel	0/0	0
8XJE	TURN SIGNALS, FRONT Dual Face, LED, Amber/Amber, Mounted on Top of Fender, Used with Standard Flush Mounted Front Turn Signal, Side Marker Lamps, Parking Lights and Reflectors	0/0	0
9585	FENDER EXTENSIONS Rubber	6/0	6
9AAB	LOGOS EXTERIOR Model Badges	0/0	0
9AAE	LOGOS EXTERIOR, ENGINE Badges	0/0	0
9HAN	INSULATION, UNDER HOOD for Sound Abatement	10/0	10
9HBM	GRILLE Stationary, Chrome	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV	0/0	0
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0
	Includes : PAINT SCHEMATIC ID LETTERS "WL"		
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
10SLV	PROMOTIONAL PACKAGE Government Silver Package	0/0	0
11001	CLUTCH Omit Item (Clutch & Control)	-55/-8	-63
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted	10/0	10
12926	RADIATOR HOSES Silicone; Molded	0/0	0
12EHV	ENGINE, DIESEL {Cummins L9 330} EPA 2017, 330HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)	583/-19	564
12THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed	0/0	0
	<u>Includes</u> : FAN Nylon		
12UWZ	RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core with Internal Water to Oil Transmission Cooler and 1167 In Charge Air Cooler	23/-5	18
	Includes : DEAERATION SYSTEM with Surge Tank		

<u>Code</u>	Description	F/R Wt T (lbs)	ot Wt (lbs)
	: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber	(188)	(100)
12VAL	AIR CLEANER Dual Element, with Integral Snow Valve and In-Cab Control	6/0	6
12VGZ	FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2019	0/0	0
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel	0/0	0
12VYL	ACCESSORY WIRING, SPECIAL for Road Speed Wire Coiled Under Instrument Panel for Customer Use	0/0	0
12VYP	ENGINE CONTROL, REMOTE MOUNTED No Provision Furnished for Remote Mounted Engine Control	0/0	0
12WZE	EMISSION COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations	0/0	0
13AVL	TRANSMISSION, AUTOMATIC {Allison 3500 RDS} 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway	195/54	249
13WET	TRANSMISSION SHIFT CONTROL for Column Mounted Stalk Shifter	0/0	0
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0	0
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction	0/0	0
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab	0/0	0
13WYU	SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, Performance Programming	0/0	0
13XAL	PTO LOCATION Customer Intends to Install PTO at Left Side of Transmission	0/0	0
14ASA	AXLE, REAR, SINGLE {Meritor RS-26-185} Single Reduction, 26,000-lb Capacity, Driver Controlled Locking Differential, R Wheel Ends . Gear Ratio: 6.14	0/280	280
14SAL	SUSPENSION, REAR, SINGLE 31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Multileaf Springs	0/177	177
15LMR	FUEL/WATER SEPARATOR {Racor 400 Series,} with Primer Pump, Includes Water-in-Fuel Sensor	0/0	0
15LMU	LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail, 8" Back of Cab	0/0	0
15SSC	FUEL TANK Temporary, Top Draw, Non-Polished Aluminum, D-Style, 16" Tank Depth, 50 US Gal (189L), Mounted Left Side, Back of Cab	24/2	26
15WDG	DEF TANK 7 US Gal (26L) Capacity, Frame Mounted Outside Left Rail, Under Cab	0/0	0
16030	CAB Conventional, Day Cab	0/0	0
16975	HEATER HOSES Silicone	0/0	0

<u>Code</u>	Description	<u>F/R Wt T</u>	
16BAM	AIR CONDITIONER with Integral Heater & Defroster	(lbs) 56/0	(lbs) 56
16GDC	GAUGE CLUSTER Base Level; English with English Speedometer and Tachometer, for Air Brake Chassis, Includes Engine Coolant Temperature, Primary and Secondary Air Pressure, Fuel and DEF Gauges, Oil Pressure Gauge, Includes 3 Inch Monochromatic Text Display	0/0	0
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	1/0	1
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel, Mounted in Instrument Panel	2/0	2
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16JNV	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Cloth, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust	28/11	39
16SEE	GRAB HANDLE Chrome; Towel Bar Type with Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar	3/0	3
16SMM	SEAT, PASSENGER {National} Non Suspension, High Back, Fixed Back, Integral Headrest, Cloth	16/7	23
16SNR	MIRRORS (2) Power Adjust, Thermostatically Controlled Heated Heads, LED Clearance Lights, Bright Finish Heads and Arms, Black Brackets, 7.55" x 14.1" Flat Glass, 7.48" x 6.77" Convex Glass Both Sides	0/0	0
16VKK	CAB INTERIOR TRIM Diamond, for Day Cab	0/0	0
	Includes : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Reading Lights; Integral to Overhead Console, Center Mounted : SUN VISOR (3) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side		
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0	3
16WHJ	HOSE CLAMPS, HEATER HOSE {Breeze} Belleville Washer Type	0/0	0
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	5/0	5
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	0/0	0
16WSK	CAB REAR SUSPENSION Air Bag Type	0/0	0
16XJP	INSTRUMENT PANEL Wing Panel	0/0	0
16XWD	SUNSHADE, EXTERIOR Aerodynamic, Painted Roof Color; Includes Integral Clearance/Marker Lights	15/2	17
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab and Extended Cab	0/0	0

Code	Description	F/R Wt 1 (lbs)	ot Wt (lbs)
27DPN	WHEELS, FRONT {Accuride 29039} DISC; 22.5x9.00 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs, Non-Standard Offset, with .5" Thick Disc	(103) 62/0	62
28DUK	WHEELS, REAR {Accuride 29169} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs	0/24	24
7382158102	(4) TIRE, REAR 12R22.5 Load Range H G622 RSD (GOODYEAR), 482 rev/mile, 75 MPH, Drive	0/72	72
7772540190	(2) TIRE, FRONT 315/80R22.5 Load Range L UNISTEEL G291 (GOODYEAR), 491 rev/mile, 68 MPH, All-Position	24/0	24
	Cab schematic 100WL		
	Location 1: 2303, Red (Std)		
	Chassis schematic N/A		
	Services Section:		
40128	WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A	0/0	0
	Total Component Weight:	8435/5041	13476
	MiDEAL Fee Spec 3958-0160D Option B	0/0	0
	Total Goods Purchased:	0/0	0

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

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(0012EHV) ATTACHMENTS: 0012THT 0007WZY

Parameter	Value	UOM
Max Accelerator Vehicle Speed	62	MPH
Road Speed Governor Upper Droop	0	MPH
Road Speed Governor Lower Droop	0	MPH
Vehicle Speed Limiter Override	N, DISABLE FEATURE OR FUNCTION	N/A
VSLO Maximum Road Speed Delta	0	MPH
VSLO Maximum Distance	47	MILES
Max Engine Speed No Veh Speed Sens		RPM
LBSC Enable	N, DISABLE FEATURE OR FUNCTION	N/A
LBSC - Engine Speed Breakpoint		RPM
Gear Down Protection Enable	N, DISABLE FEATURE OR FUNCTION	N/A
GDP - Heavy Load Vehicle Speed	62	MPH
GDP - Light Load Vehicle Speed Driver Reward Enable	57 N. DISARLE FEATURE OR FUNCTION	MPH N/A
Driver Reward Mode	N, DISABLE FEATURE OR FUNCTION 0, ROAD SPEED GOVERNOR	N/A N/A
Fuel Economy - Expected Level	5.88	MPG
Fuel Economy - Good Level	6.47	MPG
Fuel Economy - Best Level	6.92	MPG
% Idle Time - Expected Level	30	%
% Idle Time - Good Level	20	%
% Idle Time - Best Level	10	%
Speed Reward - Expected Level	0	MPH
Speed Reward - Good Level	0	MPH
Speed Reward - Best Level	0	MPH
Speed Reward - Penalty Level	0	MPH
Idle Speed Adjustment Enable	Y, ENABLE FEATURE OR FUNCTION	N/A
Low Idle Speed	750	RPM
Idle Shutdown Enable	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Time Before Shutdown	15.0	MIN
ISD Percent Engine Loading		%
ISD With PTO	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Manual Override	N, DISABLE FEATURE OR FUNCTION	N/A
ISD With Parking Brake Set	N, DISABLE FEATURE OR FUNCTION N, DISABLE FEATURE OR FUNCTION	N/A N/A
ISD Ambient Temperature Override ISD Cold Ambient Air Temperature	30	F
ISD Intermediate Ambient Air Temp	40	F
ISD Hot Ambient Air Temperature	81	F
ISD Manual Override Inhibit Zone En	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Hot Ambient Automatic Override	Y	N/A
ISD Engine Coolant Temp Threshold	30	F
Vehicle Acceleration Management	N, DISABLE FEATURE OR FUNCTION	N/A
Variable Acceleration Speed 1	20	MPH
Variable Acceleration Speed 2	50	MPH
Variable Acceleration Rate 1	3.60	MPH/SEC
Variable Acceleration Rate 2	3.60	MPH/SEC
Cruise Control Enable	Y, ENABLE FEATURE OR FUNCTION	N/A
CC Maximum Vehicle Speed	68 N. DICARLE FEATURE OR FUNCTION	MPH
CC Save Set Speed	N, DISABLE FEATURE OR FUNCTION	N/A
CC Upper Droop CC Lower Droop	0.0 0.0	MPH MPH
CC Auto Resume	N, DISABLE FEATURE OR FUNCTION	N/A
Engine Fan Min On Time For AC	30	SEC
Remote Accelerator Enable	N, DISABLE FEATURE OR FUNCTION	N/A
Remote Accelerator Mode	1, REMOTE ACCELERATOR PEDAL OR LEVER WITH TRANS	N/A
	VERIFICATION	-,
PTO Enable	Y, ENABLE FEATURE OR FUNCTION	N/A
		-

Electronic Parameters Summary 2019 HV607 SBA (HV607)

DTO In Cab Mada		
PTO In Cab Mode Remote PTO Enable	Y, ENABLE FEATURE OR FUNCTION N, DISABLE FEATURE OR FUNCTION	N/A N/A
Remote Station PTO Enable	N, DISABLE FEATURE OR FUNCTION	N/A N/A
PTO Max Engine Speed	2200	RPM
PTO Min Engine Speed	750	RPM
PTO Maximum Engine Load	800	LB-FT
PTO Max Vehicle Speed	5	MPH
PTO Accelerator Override	N, DISABLE FEATURE OR FUNCTION	N/A
PTO Accel Override Max Engine Speed	2400	RPM
PTO Clutch Override	N, DISABLE FEATURE OR FUNCTION	N/A
PTO Service Brake Override	Y, ENABLE FEATURE OR FUNCTION	N/A
PTO Parking Brake Interlock Mode	0, PTO PRK BRK INT TYPE SET TO NONE	N/A
PTO Transmission Neutral Interlock	N, DISABLE FEATURE OR FUNCTION	N/A
PTO Eng Spd Limit w/VSS Limit PTO Ignore Vehicle Speed Sensor	N, DISABLE FEATURE OR FUNCTION N, DISABLE FEATURE OR FUNCTION	N/A N/A
PTO Resume Switch Speed	925	RPM
PTO Set Switch Speed	850	RPM
PTO Additional Switch Speed	1500	RPM
PTO Ramp Rate	250	RPM/SEC
Remote PTO Number of Speed Setting		N/A
Remote PTO Speed Setting 1	1000	RPM
Remote PTO Speed Setting 2	1200	RPM
Remote PTO Speed Setting 3	1400	RPM
Remote PTO Speed Setting 4	1400	RPM
Remote PTO Speed Setting 5	1500	RPM
Remote Station PTO Resume Sw Spd	1000	RPM
Remote Station PTO Set Switch Speed		RPM
Remote Station PTO Addition Sw Spd	1500	RPM
Transmission Driven PTO	N, DISABLE FEATURE OR FUNCTION	N/A
Transmission Driven PTO Type Powertrain Protection Enable	0, ENGINE DRIVEN STEADY LOAD N, DISABLE FEATURE OR FUNCTION	N/A N/A
Max Torque Allow By Axle/Driveshaft	23602	LB-FT
Max Torque in Top Gear Range	2995	LB-FT
Max Torque in Int. Gear Range	2995	LB-FT
Max Torque in Low Gear Range	2995	LB-FT
Max Torque w/o Vehicle Speed	1475	LB-FT
Lowest Gear of Top Gear Range	2.00	N/A
Lowest Gear of Int. Gear Range	3.00	N/A
Lowest Gear of Low Gear Range	6.00	N/A
Engine Protection Shutdown	N, DISABLE FEATURE OR FUNCTION	N/A
Engine Protection Restart Inhibit	Y, ENABLE FEATURE OR FUNCTION	N/A
Engine Prot Coolant Level Shutdown	N, DISABLE FEATURE OR FUNCTION	N/A
Sudden Veh Speed Decel Threshold	6.96	MPH
Trip Information Vehicle Ovrspeed1 Trip Information Vehicle Ovrspeed2	0 0	MPH MPH
Veh Speed Sensor Anti Tamper Level	1, HIGH LEVEL	N/A
Maintenance Monitor Enable	N	N/A
Maintenance Monitor Operating Mode	0, MAINTENANCE MONITOR AUTOMATIC MODE OF	N/A
	OPERATION	,,,
Maintenance Monitor Alert Percent	90	%
Maintenance Monitor Distance	15000	MILES
Maintenance Monitor Fuel	2000	GALLONS
Maintenance Monitor Time	500	HOURS
Maintenance Monitor Interval Factor	1.00	N/A
Master Password	000000	N/A
Adjustment Password	000000	N/A
Reset Password	000000	N/A

These Electronic Parameters have been successfully finalized

Description

Financial Summary 2019 HV607 SBA (HV607)

Duine

(US DOLLAR)

Description		Price
Total Factory List Price Including Options:		\$137,135.00
Total Goods Purchased: Total Preparation And Delivery: Total Freight: Total Factory List Price Including Freight:		\$726.12 \$940.00 \$2,200.00 \$141,001.12
Less Customer Allowance: Total Vehicle Price: Total Warranty: Total Sale Price: Total Per Vehicle Sales Price: Total Net Sales Excluding Taxes: Michigan Title Fee	\$15.00	(\$50,644.12) \$90,357.00 \$493.00 \$90,850.00 \$90,850.00 \$90,850.00
Total License, Title: Net Sales Price:	\$13.00	\$15.00 \$90,865.00

Payment for the chassis is due upon delivery of the cab/chassis to the end user or body company; which ever occurs first. If payment is not received in a timely manner additional floorplan(interest) costs may be charged to the end-user customer.

Please make all purchase orders and checks payable to: Tri-County International Trucks, Inc. 5701 Wyoming Ave. Dearborn, MI 48126

Please review this proposal very carefully. Your signature below indicates that you accept the specifications and payment terms, contained herein as written and that you are able to approve said specifications for order and payment terms. Please include this proposal number on all correspondence and purchase orders. This proposal contains in its entirety our offer to you for this purchase at the given dollar amount. No other offers, spec additions, warranties, or other additional items are made or implied. Other additional items may be available; contact your local dealer representative for further details.

	Ap	proved	by	Sel	ler:
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Salesman 6-11-2019 Official Title and Date

<u>Jeremy Kast</u> Authorized Signature

TRI COUNTY INTL TRUCKS 3001 E HIGH ST JACKSON MI 49203 (517)783-2721

This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

Accepted by Purchaser:

Firm or Business Name

Authorized Signature and Date

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.



August 19, 2019

City of Novi 45175 Ten Mile Road, Novi, MI 48375-3024 Attn: Mike Rhatigan, Fleet Asset Manager

Equipment Quotation

The following pricing is based on City of Rochester Hills RFP-RH-13-030 contract awarded November 2013

Install Monroe 11' model RDS-132-96-56 (Radius Dump Spreader) Body including the following: Overall length is 132", outside width is 96" and overall side height is 56" Tailgate height is 50", side height is 44" and 50" at the front Body shell, head sheet and inner tailgate constructed of 3/16" type 201 stainless steel Body top rail, corner posts and tailgate supports constructed of 3/16" 201 stainless steel Body longitudinal is constructed of ¹/₄" type 201 stainless steel Auger trough is constructed of type 201 stainless steel Dual auger discharge with planetary gear boxes Augers are 7" diameter and step-flighted Augers include heat-treated, hard-surfaced auger flighting as per specifications Application rate sensor built into one motor- 100 pulse type Bolt-on top screens 3/8" steel rods welded to form 2.5" squares Tailgate is air-operated and includes an air cylinder mounted at the front of the body with latch rods extending to the rear and over center finger latches Tailgate construction is 3/16" type 201 stainless steel Tailgate includes a patch gate at the rear 4 oval hole lights in stainless steel light wedges mounted to each rear pillar post 7 ga type 201 stainless steel single axle fenders mounted integrally to the body Front and rear grease extension kits for bearings, tailgate cam and hoist trunnions Install 24" cabshield 10 ga. 201 stainless steel continuously welded to body Install floor cover constructed of ¼" AR400 steel Install body prop kit on each side of the frame Proximity switch for body-up light Install Cougar model 3200 DC box vibrator Install fixed steps on driver-side, front of RDS body with grab handle Install license plate bracket in upper left corner of tailgate Install mudflaps fore and aft of rear driver tires with no advertising Install bracket for the license plate on the rear tailgate on the left side Install Mailhot-type, front-mounted Telescopic Hoist including the following: Hoist is double-acting Hoist includes nitrated cylinders Hoist includes oscillating mounting collar and is trunnion-mounted Hoist is NTEA class 90 Install Monroe Closed-Loop Pre-Wet System including the following: NEMA weather-tight fiberglass pump enclosure Hydraulic driven 7 gpm pump assembly with Dickey john flow meter 5 PSI in-line check valve for nozzles



	2 nozzle w/ brass tips and caps
	Twin (2) 75 gallon tanks with stainless steel attaching hardware
	Includes crossover tube, bulk fill adapter and flush kit
	Remote vent tube for each tank
Install	Monroe Rear Spinner Assembly including the following:
	Dual, receiver-type tubular mounting
	Formed 24" poly spinner disc
	Spinner motor includes seal saver
	Direction chute on inside of spinner with 3 exterior adjustable deflectors
	Construction is type 201 stainless steel
	Install grab handles to the Rear Spinner Assembly to aide removal
Install	Roll-Rite Electric Tarp System including the following:
	Heavy-duty mesh cover
	Aluminum tarp with tension bows and offset elbows
	Tarp arms to be mounted to fenders of RDS body
	Aluminum wind deflector
Install	Monroe Fuel/Oil/Valve Combination Enclosure including the following:
	120 gallon fuel oil capacity, 35 gallon hydraulic oil capacity
	Fuel/hydraulic tank/valve enclosure is 7 ga. type 201 stainless steel construction
	Hydraulic valve enclosure built into left side of tank
	Valve enclosure to have a weather tight door
	Low-oil sensor in hydraulic tank and wired to a low oil shutdown system
	Top of the tank Zinga-type, tank-mounted return line filter
	Ball valve shutoff on case drain and supply ports
	Sight and temperature gauge
	Hydraulic tank will be full of AW32 hydraulic oil
	"Fuel" and "Hydraulic Oil" stickers shall be installed on the tank
	Install 3-step egress & platform from streetside fender to combination reservoir tank
	Step assemblies shall be painted Red to match cab
Install	Central Hydraulic System including the following:
	Rexroth front-mounted load-sense piston pump = A10V100DFR/52L-PKC62N00
	Pump is 100cc displacement
	Front pump mounting bracket
	Pump flange
	Low-oil shutdown block with override controls
	Monroe-type low-oil sender in tank
	Spicer drive line with companion flange for easy removal
	Rexroth 9m4-12 load-sense hydraulic valve with pressure-compensated flow controls for the following:
	EPC section for Hoist
	EPC section for Scraper with relief for down pressure
	EPC section for Scraper swing
	EPC section for Front Plow
	EPC section for Front Plow swing
	EPC section for Wing Plow
	EPC section for RDS dual augers
	EPC section for spinner
	EPC section for pre-wet
	Stainless steel hydraulic couplers for spreader circuit disconnect and plow swing circuit
	Stainless steel piping will extend to spreader, spinner, pre-wet and return oil circuits at the chassis rear



	Return line manifold
	All necessary hoses and fittings will be Parker-type
Install	Rexroth CS550 Electric Spreader Controller including the following:
	Touch screen
	Closed-loop operation for spreader, spinner and pre-wet operations
	Programmable blast and pause
	Data download and programming is with a thumb drive
	Training is included
Install	Rexroth CS150 Electric Joystick Controller including the following:
	Arm-type mounting unit or pedestal mount
	6-button control for joystick functions
	System is laptop programmable
	System also includes automatic "up-in-reverse circuit" for the scraper when chassis is in reverse
Install	34" Husting-type Front Hitch including the following:
	12" structural C-channel front bumper with tapered back ends
	Double-acting lift cylinder with Socatri rod
	Serrated bar steps at the front bumper
	Installed roller pins, rollers mounted to hitch frame base
	Roller Kit Assembly, hitch-portion
	Front tow hooks to be mounted on frame with bumper cut-outs
	Two expanded metal front bumper steps driver and passenger side
	Expanded metal traction strip placed across the top of the front bumper
	Chain box to be mounted on the driver's side of the front bumper
Install	Monroe model MP36R11-ISCT Snow Plow including the following:
	11' long on top, 36" across
	Moldboard painted powder-coat Orange, with the pushframe painted powder-coat Black
	Six (6) 1/2" x 4" vertical ribs, 4" x 4" x 1/2" moldboard bottom angle, 2" x 3" x 3/8" moldboard top angle
	Moldboard thickness to be 10 gauge
	5/8" x 8" x 11' high carbon steel cutting edge with SHS punching
	Full-moldboard trip assembly with dual-compression trip
	Integral shield style moldboard
	Screw-adjustable skid shoes to be mounted on the plow
	A rubber snow shield to be mounted across the top of the plow
	Blade guides
	34" Husting plow-portion hitch
1	Roller Kit Assembly, plow-portion
Install	Monroe model MS4510 Underbody Scraper with two (2) 1' bolt-on extensions including the following: $10' \times 20'' \times 1''$ models and with two (2) 1' bolt on extensions and of models and of models and a function of the statement of
	10' x 20" x 1" moldboard with two (2) 1' bolt-on extensions, one on each end of moldboard
	Moldboard is grade 50, hi-tensile steel, not heat-treated All cylinder rods are Socatri-type, not nitrated
	Replaceable trunnions
	Piloted centerpin bolt into hangerboard
	Grease line kit is included
	Cushion valve and j-50 relief valve included
	Install proximity switch for scraper position indication
	Install 4" grip-strut scraper step, not bar grating, installed raised with step material
	Install Kennametal single-insert carbide cutting edges
	Install two (2) Kennametal D-shaped carbide curbguards one each end of the moldboard
	Paint Red bands on ends of moldboard to match cab



Install	Monroe model MJW-7' mid-mounted 7' Jr. Wing; parallelogram-type wing including the following:
	7' moldboard length, 27" intake height, 28" discharge height
	Moldboard is powder-coated Orange
	Safety chain shall be installed for transport at any adjusted angle
	Wing Post is mounted just ahead of front drive tire with rear push arm mounted behind the rear drive tire
	Wing Post is parallelogram design and shall mount directly ahead of the drive tire
	Rear pusharm is to be equipped with a 6" cushion spring
	Rear pusharms have bolt-in design with grease zerks for ease of maintenance
	Front arm banjo plate has captive design
	Hydraulic circuit for the wing is equipped with a sequencing valve for proper operation of the wing
	Sequencing valve shall have built-in, manually adjustable flow controls
	Wing is to be equipped with stainless steel hydraulic disconnects for easy removal
	Wing will also be equipped with a cushioned rubber stop to prevent it from hitting the body when
	placed in the stored position at any adjusted angle
	Install two (2) single-hole stainless steel light boxes mounted on the end of the wing, with a Green 6"
	oval flasher and an Amber 6" oval flasher and an LED marker light front-facing
	Install recycled tire cutting edge 5" x 10" x 83" including a weld-on 2' round stock curbguard
	Install two (2) Monroe wing shoes, one each at toe and heel of tire cutting edge
	Install double-reinforced 1/2" thick rubber snow deflector
	Install proximity switch for wing position indication
	Install safety clamp for wing push-arm spring
Install	LaserLine model GL3000PMC Wing Plow Guidance Laser including the following:
	Green "ultra-bright" laser assembly enclosed in weatherproof housing
	Heated front window lens to reduce or eliminate icing
	Pneumatic air blast mechanism for lens, blasting every 5 seconds
	Control switch installed in-cab for laser on/off and air blast on/off
	Laser assembly installed on roof of cab
Install	Custom Lighting & Electrical including the following:
	Four-hole rear wedge stainless steel light boxes with LED lights on rear pillars including:
	Driver-side 4-hole wedge on RDS body going down:
	Star Green, SoundOff STT, SoundOff Backup & Star Amber
	Pass-side 4-hole wedge on RDS body going down:
	Star Amber, SoundOff STT, SoundOff Backup & Star Green
	Flashers hooked up to wig-wag corner-to-corner
	Two (2) SoundOff LED mPower (mo. EMPC2SMS4) amber/green flashers front-facing, under cabshield
	Two (2) SoundOff LED mPower (mo. EMPC2SMS4) amber/green flashers side-facing, one per side on body
	Two (2) Weldex LED flood lights mounted at rear, angled toward pavement for spreader
	Two (2) Weldex LED flood lights mounted above scraper on left and right side
	One (1) Weldex LED flood light mounted on RDS body to illuminate wing plow
	LED button marker lights on the combination body's light wedges
	Plow lights and aluminum plow light brackets mounted on hood
	Betts junction box and related wiring
	Install Preco 1040 back-up alarm
	Controls & Switches including the following:
	OEM chassis and InPower switches shall control the emergency & work lighting
	Chassis switches for the following:
	Front flashers
	Rear flashers



	Scraper work lights Spreader work lights Wing work light Air-tailgate
	Console switches for the following: Tarp in/out
	Camera Camera Air Low-oil pump override Front flashers
	Rear flashers
Install	Flaming River Electrical Shutdown including the following:
	3-minute timed delay switch mounted in-cab
	Enclosure with LED indicator mounted at bottom of hydraulic tank
Install	RoadWatch Kit for Rexroth CS550 including the following:
	RoadWatch road temperature sensor mounted on mirror & display mounted in-dash
	Sensor cables for connecting to Rexroth CS550 spreader controller
	Includes mounting, necessary wiring and installation
Install	SkyHawk AVL Monitoring System including the following:
	City-supplied SkyHawk unit, tying into proximity switches
1	City to supply unit and cables for wiring
Install	Rearview Camera with Wash System including the following:
	M.S. Foster & Associates Inc. system, recess-mounted into rear tailgate frame
	System tying into chassis wiper fluid reservoir Chassis winer controls for estivating wash system, momentary in solve switch for sir puffer
	Chassis wiper controls for activating wash system, momentary in-cab switch for air puffer Air puffer & washer fluid tubing
	VCMS20B color camera
	CEC34L1 main cable for monitor
	VOSHD6MNT LCD monitor mount
	MSF5000 stainless steel camera box
	VOM74WP 7" LCD color monitor
Install	¾" Rear Hitch Plate including the following:
instan	PH-20 pintle hook with multi-drill mounting holes for adjustment height (mounted at 22" to cradle)
	Two (2) ³ / ² D-rings welded on each side for tow chains
	The rear hitch shall have support bracing welded for extra strength and stability
	Rear tow hooks mounted outside of frame rails
	Electric plug 7-way round pin
Install	
Install	One (1) pry bar tube holder, include rubber bumper inside tube to prevent rattling
Install	One (1) spade holder mounted to RDS
Install	Fire Extinguisher and Triangle Kit
Install	Rustproof top of floor in-cab, remove floor mat and install rustproofing
Install	Minimizer Floor Mats for International 7400 (mo. FKINTL3B-MIN)
Install	Leaf Spring Block on curbside rear for wing support
-	

Above installed and non-stainless steel painted: \$135,570.00 ea.

Option Install Force America hydraulic system & 6100 controller in lieu of Rexroth hydraulic system & CS550/CS150 controller including the following:



Force FASD45L piston pump – 6.0 CID Valve assembly is Force America Add-a-Fold with the 9 sections Force America CommandAll Single controller armrest compatible Force America CommandAll Single joystick controller with a 6100 model spreader Force America CommandAll programmable light and power switch assembly Wireless ARC temp sensor linked to Force America 6100 spreader controller **Precise AVL Monitoring System including the following:** City-supplied Precise unit, tying into proximity switches City to supply unit and cables for wiring

Option add: \$5,877.00 ea.

Chassis requirements to be confirmed prior to order entry:

CA: 120" 6-pack of chassis switches Delete OEM bumper Front frame extension Front of engine PTO Stationary grille Highest ground clearance package Horizontal DPF mounted under the curbside door or behind cab Right side with a vertical tailpipe Trailer wiring to the rear for electric brake controller Temporary fuel tank

Payment Terms: Net 30. Pricing effective for 45 days.

Pricing does not include any of the Rochester Hills RFQ discounts that may be applicable.
2% discount off total taken at invoice if payment received within 30 days.FOB:City of NoviDelivery:360 days ARO

Thank you for the opportunity to quote.

Respectfully submitted by, Jon Luea/Brian Bouwman

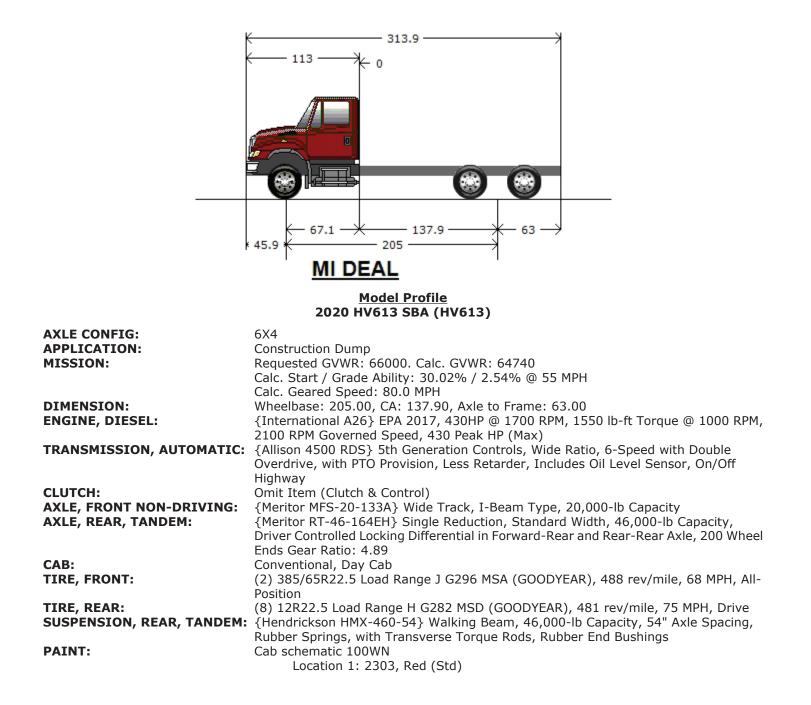
INTERNATIONAL®

June 11, 2019

Prepared For:

City of Novi Mike Rhatigan 45175 W 10 Mile Rd. Novi, MI 48375-3024 (248)735 - 5656 Reference ID: MI Deal HV613 Presented By: TRI COUNTY INTL TRUCKS Jeremy Kast 3001 E HIGH ST JACKSON MI 49203 (517)783-2721

Tri County International Trucks. Inc./State of Michigan DTMB Contract 071B6600122, Specification #3958 0172D for a new 2020 MY International Truck Chassis per this proposal. Pricing includes all user specified option equipment costs and available discounts in effect as of date listed. Please note that the afforded pricing includes a 1% fee paid to the state of Michigan as required under this contract. Additional surcharge requirements as issued by the manufacturer may be applicable in the future.



Chassis schematic N/A

INTERNATIONAL®

<u>Code</u>	Description	F/R Wt (lbs)	Tot Wt (lbs)
HV61300	Base Chassis, Model HV613 SBA with 205.00 Wheelbase, 137.90 CA, and 63.00 Axle to Frame.	8530/3948	
1570	TOW HOOK, FRONT (2) Frame Mounted	8/0	8
1AND	AXLE CONFIGURATION {Navistar} 6x4	0/0	0
	<u>Includes</u> : DRIVESHAFT 1810 Series Transmission to Rear Axle : INNER-AXLE SHAFT 1710 Series Forward Rear Axle to Rear Rear Axle		
	Notes : Pricing may change if axle configuration is changed.		
1CAJ	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.437" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL	220/364	584
1LLK	BUMPER, FRONT Omit Item	-91/15	-76
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille	138/-33	105
1WDU	CROSSMEMBER, FRONT for Hydraulic Pump, Mounting Flange to Accommodate Pump	42/3	45
1WHP	WHEELBASE RANGE 183" (465cm) Through and Including 248" (630cm)	0/0	0
2ARY	AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I- Beam Type, 20,000-lb Capacity	186/0	186
3AGA	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 20,000-lb Capacity, with Shock Absorbers	57/0	57
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications	0/0	0
	Includes : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic (with Air Cam Brakes) : SLACK ADJUSTERS, REAR Automatic (with Air Cam Brakes) : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6		
4193	BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers	26/0	26
4619	TRAILER CONNECTIONS Four-Wheel, with Hand Control Valve and Tractor Protection Valve, for Straight Truck	0/0	0
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank	0/0	0
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)	0/0	0
4EBD	AIR DRYER {Wabco System Saver 1200} with Heater	12/6	18
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Spring Brake	0/78	78
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn	18/0	18

INTERNATIONAL®

<u>Code</u>	Description	F/R Wt T	
4LAA	SLACK ADJUSTERS, FRONT {Haldex} Automatic	(lbs) 0/0	(lbs) 0
4LGA	SLACK ADJUSTERS, REAR {Haldex} Automatic	0/0	0
4LGR	BRAKE ATTACHMENT Stainless Steel Slack Adjuster Pins/Cotter Pins on Front and Rear	0/0	0
4NDB	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake	0/52	52
4SPM	AIR COMPRESSOR {Bendix BA-921 Head Unload} 15.9 CFM	0/0	0
4VHT	AIR DRYER LOCATION Mounted Outside Left Rail, on Fuel Water Separator Bracket	0/0	0
4VHZ	AIR TANK LOCATION (2) Mounted Under Cab, Outside Left Rail, on Step Bracket, with Ground Clearance	0/0	0
4WBX	DUST SHIELDS, FRONT BRAKE for Air Brakes	5/0	5
4WDM	DUST SHIELDS, REAR BRAKE for Air Brakes	0/12	12
5710	STEERING COLUMN Tilting and Telescoping	14/5	19
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
5PTB	STEERING GEAR (2) {Sheppard M100/M80} Dual Power	91/-6	85
7BEV	AFTERTREATMENT COVER Steel, Black	0/0	0
7BLG	EXHAUST SYSTEM Single, Horizontal Aftertreatment Device, Frame Mounted Right Side Under Cab, Includes Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab, for Improved Ground Clearance	79/36	115
7SDX	ENGINE COMPRESSION BRAKE Omit	-48/-1	-49
7WAZ	TAIL PIPE (1) Turnback Type	0/0	0
7WDM	EXHAUST HEIGHT 10'	2/0	2
7WDN	MUFFLER/TAIL PIPE GUARD (1) Aluminum	0/0	0
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
	Includes : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered		
8518	CIGAR LIGHTER Includes Ash Cup	0/0	0
8695	SNOW SHIELD (2) Chrome; for Dual Air Horns	2/0	2

<u>Code</u>	Description	<u>F/R Wt</u> 1 (lbs)	f <mark>ot Wt</mark> (lbs)
8GXJ	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type; 12 Volt 160 Amp. Capacity, Pad Mount	0/0	0
8HAB	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn	2/0	2
8НАН	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket	0/2	2
8HXT	HORN, AIR (2) Single Tone, Chrome, Roof Mounted, with Lanyard Pull Cord	0/0	0
8MJU	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 2850CCA Total, Top Threaded Stud	12/9	21
8RGA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab	1/0	1
8RLZ	BATTERY DISCONNECT SWITCH {Cole-Hersee 75920-06} 300 Amp; Battery Box Mounted, Disconnects Cab Power, Does Not Disconnect Charging Circuits, Locks with Padlock	2/0	2
8RML	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/3.5MM Auxiliary Input, MP3, Apple Device Play & Control, Bluetooth for Phone & Music	2/0	2
8RMV	SPEAKERS (2) 6.5" Dual Cone Mounted in Doors	0/0	0
8THB	BACK-UP ALARM Electric, 102 dBA	0/3	3
8THJ	AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications	2/0	2
8ТКК	TRAILER AUXILIARY FEED CIRCUIT for Electric Trailer Brake Accommodation/Air Trailer ABS; with 30 Amp Fuse and Relay, Controlled by Ignition Switch	1/0	1
8VAY	HORN, ELECTRIC Disc Style	0/0	0
8VUJ	BATTERY BOX Steel, with Plastic Cover, 18" Wide, 2-4 Battery Capacity, Mounted Right Side Back of Cab	0/0	0
8WBW	JUMP START STUD Remote Mounted	2/0	2
8WCK	POWER SOURCE, TERMINAL TYPE 2-Post	1/0	1
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	0/0	0
8WNH	RUNNING LIGHT (2) Daytime	1/0	1
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	0/0	0
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0

Vehicle Specifications 2020 HV613 SBA (HV613)

Code	Description	<u>F/R Wt</u> 1 (lbs)	ot Wt (lbs)
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened	0/0	0
8WXG	STARTING MOTOR {Mitsubishi Electric Automotive America 105P} 12- Volt, with Soft-Start	0/0	0
8WZP	INDICATOR, BATTERY WARNING Green BATTERY ON Indicator, Mounted on Left Side of Instrument Panel, To be Used with Factory Installed or Customer Mounted Battery Disconnect Switch	0/0	0
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
8XGT	TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender	0/0	0
8XHR	POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) & USB Port, Located in the Instrument Panel	0/0	0
9585	FENDER EXTENSIONS Rubber	0/0	0
9AAB	LOGOS EXTERIOR Model Badges	0/0	0
9AAE	LOGOS EXTERIOR, ENGINE Badges	0/0	0
9HBM	GRILLE Stationary, Chrome	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	3/0	3
9WBK	FRONT END Tilting, Fiberglass, with Three Piece Construction, Includes Long Hood	0/0	0
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0
	Includes : PAINT SCHEMATIC ID LETTERS "WN"		
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
10943	KEYS - ALL ALIKE Fleet - Includes Ignition and Cab Door Keys	0/0	0
10SLV	PROMOTIONAL PACKAGE Government Silver Package	0/0	0
10WKN	KEYS - ALL ALIKE, ID I-1624 Compatible with Z-250	0/0	0
11001	CLUTCH Omit Item (Clutch & Control)	-137/-19	-156
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
12850	PTO EFFECTS, ENGINE FRONT for N13/A26 Engines, Less PTO, Unit, Includes Adapter Plate on Engine Front Mounted	0/0	0
12BEB	ENGINE, DIESEL {International A26} EPA 2017, 430HP @ 1700 RPM, 1550 lb-ft Torque @ 1000 RPM, 2100 RPM Governed Speed, 430 Peak HP (Max)	0/0	0
12THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed	0/0	0
	Includes		

Includes

INTERNATIONAL®

Code	Description	<u>F/R Wt</u> T (lbs)	ot Wt (lbs)
	: FAN Nylon	(199)	(100)
12VAL	AIR CLEANER Dual Element, with Integral Snow Valve and In-Cab Control	6/0	6
12VHC	FEDERAL EMISSIONS {International A26} EPA, OBD and GHG Certified for Calendar Year 2019	0/0	0
12WEG	COLD STARTING EQUIPMENT Automatic; with Engine ECM Control	0/0	0
12WPZ	OIL PAN Stainless Steel, for N13/A26 Engines	53/3	56
12WTA	FAN DRIVE SPECIAL EFFECTS Fan Cooling Ring with Fan Shroud Effects, Engine Mounted	0/0	0
12WZE	EMISSION COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations	0/0	0
12XBD	RADIATOR Aluminum; Welded, Front to Back CrossFlow System, 1292 SqIn, 1008 SqIn CAC	0/0	0
	<u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber		
12XBR	BLOCK HEATER, ENGINE {Phillips} 120V/1150W	4/0	4
	<u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door		
13AUW	TRANSMISSION, AUTOMATIC {Allison 4500 RDS} 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, On/Off Highway	278/98	376
13WAW	OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil Type	25/0	25
13WET	TRANSMISSION SHIFT CONTROL for Column Mounted Stalk Shifter	0/0	0
13WLM	TRANSMISSION OIL Synthetic; 63 thru 76 Pints	0/0	0
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction	0/0	0
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab	0/0	0
13WYU	SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, Performance Programming	0/0	0
13XAT	PTO LOCATION Dual, Customer Intends to Install PTO at Left Side and/ or Top of Transmission	0/0	0
14HRC	AXLE, REAR, TANDEM {Meritor RT-46-164EH} Single Reduction, Standard Width, 46,000-lb Capacity, Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle, 200 Wheel Ends . Gear Ratio: 4.89	0/2383	2383
14ULY	SUSPENSION, REAR, TANDEM {Hendrickson HMX-460-54} Walking Beam, 46,000-lb Capacity, 54" Axle Spacing, Rubber Springs, with Transverse Torque Rods, Rubber End Bushings	0/500	500
14WAL	SUSPENSION/REAR-AXLE IDENTITY for Meritor Tandem Rear Axles with Bar-Pin Beam Attachment Type Suspensions	0/0	0

<u>Code</u>	Description	<u>F/R Wt</u> 1	
14WBN	DIFF. SWITCH CONTROLS Two Independent Switches for Control Traction Differentials on Tandem Rear Axles, Mounted on Dash	(lbs) 1/0	(lbs) 1
14WBV	SHOCK ABSORBERS, REAR (4) for Hendrickson HMX Suspension Only, Mounted from Frame to Beam	0/31	31
14WMK	AXLE, REAR, LUBE {EmGard FE-75W-90} Synthetic Oil; 65 thru 89.99 Pints	0/0	0
15DYP	DEF TANK 9.5 US Gal (36L) Capacity, Frame Mounted Outside Left Rail, Under Cab	0/0	0
15LKX	FUEL/WATER SEPARATOR {Davco Fuel Pro 382} 12 VDC Electric Heater, Includes Pre-Heater, Includes Water-in-Fuel Sensor	4/-3	1
15LMG	LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail, 11" Back of Cab	0/0	0
15SSC	FUEL TANK Temporary, Top Draw, Non-Polished Aluminum, D-Style, 16" Tank Depth, 50 US Gal (189L), Mounted Left Side, Back of Cab	-44/17	-27
15WCS	FUEL COOLER Less Thermostat; Mounted in Front of Cooling Module	15/0	15
16030	CAB Conventional, Day Cab	0/0	0
16BAM	AIR CONDITIONER with Integral Heater & Defroster	0/0	0
16GDC	GAUGE CLUSTER Base Level; English with English Speedometer and Tachometer, for Air Brake Chassis, Includes Engine Coolant Temperature, Primary and Secondary Air Pressure, Fuel and DEF Gauges, Oil Pressure Gauge, Includes 3 Inch Monochromatic Text Display	0/0	0
16HGG	GAUGE, OIL TEMP, ENGINE	1/0	1
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel, Mounted in Instrument Panel	2/0	2
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16JNV	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Cloth, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust	0/0	0
16SEE	GRAB HANDLE Chrome; Towel Bar Type with Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar	3/0	3
16SMM	SEAT, PASSENGER {National} Non Suspension, High Back, Fixed Back, Integral Headrest, Cloth	16/7	23
16SNR	MIRRORS (2) Power Adjust, Thermostatically Controlled Heated Heads, LED Clearance Lights, Bright Finish Heads and Arms, Black Brackets, 7.55" x 14.1" Flat Glass, 7.48" x 6.77" Convex Glass Both Sides	0/0	0
16SNX	MIRROR, CONVEX, LOOK DOWN Right Side, Bright, 6" x 10 1/4"	0/0	0
16VCC	SEAT BELT All Orange; 1 to 3	0/0	0
16VKK	CAB INTERIOR TRIM Diamond, for Day Cab	0/0	0
	<u>Includes</u> : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger		

Vehicle Specifications 2020 HV613 SBA (HV613)

<u>Code</u>	Description	<u>F/R Wt</u> T (lbs)	f <mark>ot Wt</mark> (lbs)
	: DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Reading Lights; Integral to Overhead Console, Center Mounted	(105)	(IDS)
	: SUN VISOR (3) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side		
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0	3
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	5/0	5
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	0/0	0
16WSK	CAB REAR SUSPENSION Air Bag Type	0/0	0
16XJP	INSTRUMENT PANEL Wing Panel	0/0	0
16XWD	SUNSHADE, EXTERIOR Aerodynamic, Painted Roof Color; Includes Integral Clearance/Marker Lights	14/3	17
16XWJ	WINDSHIELD WIPER BLADES Snow Type	2/0	2
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab and Extended Cab	0/0	0
27DUM	WHEELS, FRONT {Accuride 29806} DISC; 22.5x12.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs, Offset 4.63"	104/0	104
28DUK	WHEELS, REAR {Accuride 29169} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs	0/88	88
60AAG	BDY INTG, REMOTE POWER MODULE Mounted Inside Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs, Max 20 amp per Channel, Max 80 amp Total; Includes 1 Switch Pack with Latched Switches	0/0	0
7382158105	(8) TIRE, REAR 12R22.5 Load Range H G282 MSD (GOODYEAR), 481 rev/mile, 75 MPH, Drive	0/240	240
7702658113	(2) TIRE, FRONT 385/65R22.5 Load Range J G296 MSA (GOODYEAR), 488 rev/mile, 68 MPH, All-Position	96/0	96
	Cab schematic 100WN		
	Location 1: 2303, Red (Std)		
	Chassis schematic N/A		
	Services Section:		
40127	WARRANTY Standard for HV513, HV613 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2030A	0/0	0
	Total Component Weight:	9771/7841	17612
	MI. Deal Fee Spec 3958-0172D	0/0	0
	Total Goods Purchased:	0/0	0

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The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

(0012BEB) ATTACHMENTS: 0009WBK 0012WEG 0012THT

Parameter	Value	UOM
Max Accelerator Vehicle Speed:7902	68	MPH
Vehicle Speed Limiter Override:7911	0, DISABLE FEATURE OR FUNCTION	N/A
VSLO Speed Increment:7912	10	MPH
VSLO Maximum Activation Time: 7914	30	MIN
VSLO Time Interval to Reset: 7915	8.0	HOURS
Progressive Shift Enable: 7744	0, DISABLE FEATURE OR FUNCTION	N/A
Low Gear Ratio Break Point:7742 High Gear Ratio Break Point:7743	0.76000000 0.00000000	N/A N/A
Low Gear Engine Speed Limit:7738	1550.0	RPM
High Gear Engine Speed Limit:7739	1600.0	RPM
Low Gear Engine Speed Range:7740	100.0	RPM
High Gear Engine Speed Range:7741	100.0	RPM
Gear Down Protection Enable: 7714	0, DISABLE FEATURE OR FUNCTION	N/A
Top Gr Minus 2 Light Ld VS Lim:7715	43	MPH
Top Gr Minus 1 Light Ld VS Lim:7716	47	MPH
Top Gr Minus 2 Heavy Ld VS Lim:7735		MPH
Top Gr Minus 1 Heavy Ld VS Lim:7736		MPH
Driver Reward Enable: 7918	0, DISABLE FEATURE OR FUNCTION	N/A
Driver Reward Mode:7930	2, BOTH ACCELERATOR AND CRUISE VEHICLE SPEED LIMIT INCREASE	N/A
Driver Reward Performance Crit: 7925	2, BOTH FUEL ECONOMY AND IDLE TIME BASED REWARD	N/A
Briver Reward Performance entry 525	SYSTEM	14/7
Fuel Economy - Expected Level:7921	7.00	MPG
Fuel Economy - Good Level:7920	7.25	MPG
Fuel Economy - Excellent Level:7919	7.50	MPG
% Idle Time - Expected Level:7924	20	%
% Idle Time - Good Level:7923	15	%
% Idle Time - Excellent Level:7922	10	%
Driver Reward Ambient Temp H:7938	150.0	C
Driver Reward Ambient Temp L:7939 VS Lim Increase - Expected LvI:7926	-40.0 0	C MPH
VS Lim Increase - Good LvI:7927	0	MPH
VS Lim Increase - Excel LvI:7928	0	MPH
VS Lim Decrease - Penalty LvI:7929	0	MPH
Maximum Standstill Eng Speed:7753	2100.0	RPM
ISD Idle Shutdown Mode:7400	0, DISABLE FEATURE OR FUNCTION	N/A
ISD Time w/Park Brk Released:7401	5.0	MIN
ISD Time w/Park Brake Set:7404	5.0	MIN
ISD Latched Driver Override En:7407	0, DISABLE FEATURE OR FUNCTION	N/A
ISD Ambient Temp Override En:7408	0, DISABLE FEATURE OR FUNCTION	N/A
ISD Int Amb Temp Enable:7405	0, DISABLE FEATURE OR FUNCTION	N/A
ISD Max Ambient Temp Override:7402		С
ISD Int Amb Temp Override: 7406	4.4	C
ISD Min Ambient Temp Override:7403		C
ISD Max Engine Coolant Temp:7412	150.0	C C
ISD Min Engine Coolant Temp:7413 ISD Idle Shutdown Max Eng Trq:7409	16.0 80	%
Upshift Indicator:8217	1, SHIFT SPEED BASED ON GEAR DOWN PROT &	N/A
	PROGRESSIVE SHIFT	14/7
Cruise Control Enable:7600	1, ENABLE FEATURE OR FUNCTION	N/A
CC Max Vehicle Speed:7604	68	М́РН
CC Min Vehicle Speed:7603	25	MPH
Cruise Control Droop:7605	1	MPH
AESC Control:7500	0, DISABLE FEATURE OR FUNCTION	N/A
AESC In-cab Mode:7502	2, VARIABLE ENGINE SPEED CONTROL SELECTED	N/A

AESC Min Engine Speed:7522	650.0	RPM
AESC Max Engine Speed:7508	1500.0	RPM
	800.0	
AESC Preset Engine Speed 1:7505		RPM
AESC Preset Engine Speed 2:7506	900.0	RPM
AESC Preset Engine Speed 3:7514	1000.0	RPM
AESC Preset Engine Speed 4:7515	1100.0	RPM
AESC Preset Engine Speed 5:7516	1200.0	RPM
		RPM
AESC Preset Engine Speed 6:7517		
AESC Activate at Preset Speed:7528	0, NO PRESET PRESELECTION	N/A
AESC Ramp Up Rate:7507	100.00	RPM/SEC
AESC Ramp Down Rate:7524	100.00	RPM/SEC
AESC Bump Up/Down Step:7525	25.0	RPM
AESC In-cab Operator Interface:7503	0, NO (OFF) OR DISABLE	N/A
AESC Disable w/ Clutch Pedal:7510	1, ENABLE FEATURE OR FUNCTION	N/A
AESC Disable w/ Brake Pedal:7511	1, ENABLE FEATURE OR FUNCTION	N/A
AESC Accel Pedal Mode:7513	0, AESC IGNORES THE ACCELERATOR PEDAL	N/A
AESC Max Engine Load:7519	100.0000	%
AESC Control to Engine Load:7530	0, KICK OUT OF AESC ABOVE PROGRAMMED LIMIT	N/A
AESC Max Engine Load Time:7527	8	SEC
AESC Vehicle Speed Limit:7521	5.0000	MPH
AESC Max Mobile Veh Spd:7501	5	MPH
AESC Eng Spd Limit w/VSS Fault:7518	1200	RPM
AESC Force Fan On:9007	0, DISABLE FEATURE OR FUNCTION	N/A
AESC Park Brake Override:7534	1, ENABLE FEATURE OR FUNCTION	N/A
	•	
AESC Transfer Case Signal Mode:8910		N/A
AESC Splitshaft Veh SPD Dsply:9307	0, SPEED SENSOR LOCATED IN WHEEL RIM	N/A
AESC Remote Accel Pedal Enable: 7504	0, DISABLE FEATURE OR FUNCTION	N/A
AESC Remote Accel Pedal Switch:8914	0, DISABLE FEATURE OR FUNCTION	N/A
AESC Accel Max Eng Spd Ovrd:7520	1900.0	RPM
Preset Remote AESC Input Type:9932	0, DISCRETE (HARDWIRED) INPUT	N/A
Variable Remote AESC Input:9933	0, DISCRETE (HARDWIRED) INPUT	N/A
Rem Accelerator Position Input:9935	1, SAE J1939 MULTIPLEXED	N/A
ECT Warning & Protection Mode:7778	4, LOW IDLE	N/A
Coolant Level - Protection:7768	2, ENGINE PROTECTION (DERATE)	N/A
Oil Pressure Low - Protection:7770	3, ENGINE PROTECTION (SHUTDOWN)	N/A
Oil Temp - Protection Reaction:7771	1, ENGINE PROTECTION (WARNING)	N/A
Powertrain Protection Enable:7722		
	0, DISABLE FEATURE OR FUNCTION	N/A
Max Torque w/o Vehicle Speed:7712	1550.0000	LB-FT
PTP Gear Group Torque Limit En:7717	0, DISABLE FEATURE OR FUNCTION	N/A
Highest Gear of Low Range:7718	1	N/A
Highest Gear Rat of Low Range: 7745	6.00	N/A
Highest Gear of Int. Range:7748	2	N/A
	4.00	
Highest Gear Rat of Int. Range:7746		N/A
Highest Gear of High Range: 7749	3	N/A
Highest Gear Rat of High Range:7747	2.00	N/A
Max Torque in Low Gear Range:7713	1550.0000	LB-FT
Max Torque in Int. Gear Range:7750	1550.0000	LB-FT
Max Torque in High Gear Range:7751	1550.0000	LB-FT
Auxillary Shutdown Input Type:9931	0, DISCRETE (HARDWIRED) INPUT	N/A
VSS Anti-Tamper Max Eng Speed:7901		RPM
Veh Speed Sensor Antitampering: 7905	1, ENABLE FEATURE OR FUNCTION	N/A
Vehicle Over-speed Indicator:7754	0, FEATURE OR FUNCTION IS DISABLED	N/A
Veh Overspd Threshold Level 1:7723	75.000000	М́РН
Veh Overspd Threshold Level 2:7724	77.000000	MPH
Fuel Used Service Interval:9501	0	
		GALLONS
Engine Hour Service Interval:9502	0	HOURS
Veh Distance Service Interval:9503	0	MILES
Service Soon Percent to Notify:9507	90	%
Customer Unit Number:6605	0	N/A
		-

Electronic Parameters Summary 2020 HV613 SBA (HV613)

Hard Braking Incident Counter:89041, ENABLE FEATURE OR FUNCTIONFirm Braking Decel Threshold:89164.000Hard Braking Decel Threshold:89057.40Customer Password:870000000000

N/A MPH/SEC MPH/SEC N/A

These Electronic Parameters have not been finalized

(US DOLLAR)

Description	()	Price
Total Factory List Price Including Options:		\$237,892.00
Total Goods Purchased:		\$1,097.60
Total Preparation And Delivery:		\$940.00
Total Freight:		\$2,250.00
Total Factory List Price Including Freight:		\$242,179.60
Less Customer Allowance:		(\$126,124.60
Total Vehicle Price:		, \$116,055.00
Total Warranty:		\$828.00
Total Sale Price:		\$116,883.00
Total Per Vehicle Sales Price:		\$116,883.00
Total Net Sales Excluding Taxes:		\$116,883.00
Michigan Title Fee	\$15.00	
Total License, Title:		\$15.00
Net Sales Price:		\$116,898.00

Payment for the chassis is due upon delivery of the cab/chassis to the end user or body company; which ever occurs first. If payment is not received in a timely manner additional floorplan(interest) costs may be charged to the end-user customer.

Please make all purchase orders and checks payable to: Tri-County International Trucks, Inc. 5701 Wyoming Ave. Dearborn, MI 48126

Please review this proposal very carefully. Your signature below indicates that you accept the specifications and payment terms, contained herein as written and that you are able to approve said specifications for order and payment terms. Please include this proposal number on all correspondence and purchase orders. This proposal contains in its entirety our offer to you for this purchase at the given dollar amount. No other offers, spec additions, warranties, or other additional items are made or implied. Other additional items may be available; contact your local dealer representative for further details.

Approved by Seller:

Salesman 6-11-2019

Official Title and Date

Firm or Business Name

Accepted by Purchaser:

Jeremy Kast

Authorized Signature

Authorized Signature and Date

TRI COUNTY INTL TRUCKS 3001 E HIGH ST JACKSON MI 49203 (517)783-2721

This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.



August 28, 2019

City of Novi 45175 Ten Mile Road, Novi, MI 48375-3024 Attn: Mike Rhatigan, Fleet Asset Manager

Equipment Quotation

The following pricing is based on City of Rochester Hills RFP-RH-13-030 contract awarded November 2013

Install SwapLoader Hooklift hoist model #SL-412 including the following:

40,000 pounds dumping and lifting capacity with gross weight evenly distributed in and/or on container/body

Hooklift shall be able to handle skid-mounted containers/bodies with lengths of 12-15' Hooklift shall have a minimum of 60 degree dump angle

Skid-mounted containers/bodies shall be supported with a pair of 6 1/4" minimum diameter outside flanged rollers at the rear of the hoist, and be adjustable to accommodate bodies/containers with outside subframe rail widths of 40-1/2" or 41-5/8"

Hooklift operation:

The lift shall adjust weight distribution of the container/body horizontally on the chassis while remaining in the body locks and without lifting the container/body rails off the hoist frame

Hooklift has a dual rear pivot section incorporated into the hoist design to allow for both a true dump truck operation, with the container/body secured to the hooklift via body locks during the entire dump cycle, and increased mounting leverage at the beginning of the container lift cycle

Hooklift jib to reach rearward to the A-frame lifting bar by means of double articulating hinge points (dual rear pivot) incorporated into the hoist mechanism

All lift sections shall lock into a common rigid full-length frame to support the body/container when in a dump mode. This must be accomplished by mechanical operated latches, which lock the mast It has a jib lockout valve to prevent jib operation while in dump mode

Hydraulic cylinders:

Dump/lift cylinders are double acting, twin cylinders, sized for the unit capacity with dual integral counterbalance valves. Dump/lift cylinders are 6" bore, 3" rod diameter and 56" stroke Telescopic jib cylinder shall be double acting, single cylinder, sized for unit capacity with a single counterbalance valve. Jib cylinder to be a 4" bore, 2 ½" rod diameter and 30" stroke

Hydraulic operating pressure will not to exceed 3600 PSI

Mainframe design:

The mainframe of the hoist is constructed of a "Z" rail configuration

The "Z" rail mainframe is a maximum of 10 ½" in height and constructed of 1/4" thick A572 50 KSI steel Hoist "Z" frame rails to include 6 (or 3 per side) 11-3/4" x 2-3/4" x 1/2" Nylatron wear pads for container/body support

The Nylatron pad will allow the containers/bodies to slide back and forth horizontally on the "Z" rail of the hoist with ease

Jib hook design:

Vertical Jib is constructed of a 9" x 9" x $\frac{1}{2}$ " wall square tube of A500 50 KSI steel Jib hook height is adjustable to either 53-7/8" or 61- $\frac{1}{2}$ " from the bottom of the container/body subframe rails to the bottom of the A-frame lift bar

Hooklift warranty:



The complete mechanism, including hydraulics, will be factory warranted free of defects in material and workmanship for a period of forty-eight (48) months on parts, and twelve (12) months on labor from the date of installation

Install Monroe Fuel/Oil/Valve Enclosure Combination tank including the following: 120 gallon fuel oil capacity, 40 gallon hydraulic oil capacity Fuel/hydraulic tank/valve enclosure is 7 ga. type 201 stainless steel construction Hydraulic valve enclosure built into left side of tank Valve enclosure to have a weather-tight door Low-oil sensor in hydraulic tank and wired to a low oil shutdown system Top of the tank Zinga-type, tank-mounted return line filter Ball valve shutoff on case drain and supply ports Sight and temperature gauge Hydraulic tank will be full of AW32 hydraulic oil "Fuel" and "Hydraulic Oil" stickers shall be installed on the tank Install 3-step egress & platform from streetside fender to combination reservoir tank Install fuel hook mounted on tank for safe filling Step assemblies shall be painted Red Install Central Hydraulic System including the following: Force America FASD45L piston pump – 6.0 CID Front pump mounting bracket Pump flange Low-oil shutdown block with override controls Monroe-type low-oil sender in tank Spicer drive line with companion flange for easy removal Valve assembly is Force America Add-a-Fold with the following sections: 4-way EPC section for Hoist 4-way EPC section for Jib 4-way EPC section for Scraper with relief for down pressure 4-way EPC section for Scraper swing 4-way EPC section for Front Plow 4-way EPC section for Front Plow swing 4-way EPC section for Wing Plow 3-way EPC section for dual augers 3-way EPC section for spinner 4-way EPC asymmetrical section for pre-wet/anti-ice Force America CommandAll Single controller armrest compatible Above valves mounted within above-frame stainless steel combination tank enclosure Stainless steel hydraulic couplers for spreader circuit disconnect and plow swing circuit Return line manifold All necessary hoses and fittings will be Parker-type Force America Control Center including the following: Install Force America CommandAll Single joystick controller with a 6100 model spreader The electronic controller is a fully proportional, single-stick control that allows for one-handed, finger-tip control of any hydraulic function with six programmable push buttons The electronic spreader control shall be designed for precise, closed-loop control of granular and pre-wet liquid applications and operate on a CAN Bus protocol Spreader control interface has two color-coded, continuous rotation encoders, granular & spinner control The spreader control display shall be a remotely-mounted, 7" diagonal color TFT LCD, with a low-profile 16:9 widescreen format and minimum of 800 x 480 pixel resolution



	The operator menus shall be color-coded to match the encoder knobs on the operator interface A proportional PWM driver and input module (Valve Module) shall be remotely mounted inside the hydraulic valve enclosure for control of both spreader control and joystick control outputs Truck diagnostic calibration shall be completed prior to delivery
	Supply one USB for firmware and storing calibration data
Install	34" Husting-type Front Hitch including the following:
mstan	12" structural C-channel front bumper with tapered back ends
	Double-acting lift cylinder with Socatri rod
	Installed roller pins, rollers mounted to hitch frame base
	Roller Kit Assembly, hitch-portion
	Front tow hooks to be mounted on frame with bumper cut-outs
	Two expanded metal front bumper steps driver and passenger side
	Expanded metal traction strip placed across the top of the front bumper
	Chain box to be mounted on the driver's side of the front bumper
Install	Monroe model MP36R11-ISCT Snow Plow including the following:
motan	11' long on top, 36" across
	Moldboard painted powder-coat Orange, with the pushframe painted powder-coat Black
	Six (6) ½" x 4" vertical ribs, 4" x 4" x ¾" moldboard bottom angle, 2" x 3" x 3/8" moldboard top angle
	Moldboard thickness to be 10 gauge
	5/8" x 8" x 11' high carbon steel cutting edge with SHS punching
	Full-moldboard trip assembly with dual-compression trip
	Integral shield style moldboard Screw-adjustable skid shoes to be mounted on the plow
	A rubber snowshield to be mounted across the top of the plow
	Blade guides
	34" Husting plow-portion hitch
	Roller Kit Assembly, plow-portion
Install	Monroe model MS4512 Underbody Scraper including the following:
motan	12' x 20" x 1" moldboard
	Moldboard is grade 50, hi-tensile steel, not heat-treated
	All cylinder rods are Socatri-type, not nitrated
	Replaceable trunnions
	Piloted centerpin bolt into hangerboard
	Grease line kit is included
	Cushion valve and j-50 relief valve included
	Install proximity switch for scraper position indication with long bracket to indicate scraper up/down
	Install 4" grip-strut scraper step, not bar grating, installed raised with step material
	Install Kennametal single-insert carbide cutting edges
	Install two (2) Kennametal D-shaped carbide curbguards one each end of the moldboard
	Paint Red bands on ends of moldboard
Install	Monroe model MJW-7' Mid-mounted 7' Jr. Wing parallelogram wing including the following:
	7' moldboard length, 27" intake height, 28" discharge height
	Moldboard is powder-coated Orange
	Safety chain shall be installed for transport at any adjusted angle
	Wing Post shall be mounted just ahead of the front drive tire with the rear push arm mounted behind the
	rear drive tire Wing Best is parallelegram design and shall mount directly aboad of the drive tire
	Wing Post is parallelogram design and shall mount directly ahead of the drive tire Poor puch arm is to be equipped with a $6''$ such ion spring
	Rear push arm is to be equipped with a 6" cushion spring
	Hydraulic circuit for the wing is equipped with a sequencing valve for proper operation of the wing



	Sequencing valve shall have built-in, manually adjustable flow controls
	Wing is to be equipped with stainless steel hydraulic disconnects for easy removal
	Wing will also be equipped with a cushioned rubber stop to prevent it from hitting the body when
	placed in the stored position at any adjusted angle
	Install two (2) single-hole stainless steel light boxes mounted on the end of the wing, with a Star Green 6"
	oval flasher and a Star Amber 6" oval flasher rear-facing and a LED marker light front-facing
	Install recycled tire cutting edge 5" x 10" x 83" including a weld-on 2' round stock curbguard
	Install two (2) Monroe-type wing shoes, one each at toe and heel of tire cutting edge
	Install double-reinforced 1/2" thick rubber snow deflector
	Proximity switch for wing position indication
	Install safety clamp for wing push-arm spring
Install	LaserLine GL3000PMC Wing Plow Guidance Laser including the following:
	Green "ultra-bright" laser assembly enclosed in weatherproof housing
	Heated front window lens to reduce or eliminate icing
	Pneumatic air blast mechanism for lens, blasting every 5 seconds
	Control switch installed in cab for laser on/off and air blast on/off
	Laser assembly installed on roof of cab
Install	Custom Chassis Lighting & Electrical including the following:
	Three-hole, 6" oval, horizontal stainless steel light bars shall be mounted to the chassis just behind the
	fender on each side of the chassis including:
	One (1) SoundOff LED Amber flasher mounted in each rear light box
	One (1) SoundOff LED backup light mounted in each rear light box
	One (1) SoundOff LED STT light mounted in each rear light box (mounted in outside holes)
	LED marker light kit
	One (1) Star model 9018TBLED-Amber/Green mini lightbar cab roof-mounted on a riser
	Two (2) Weldex LED flood lights mounted at rear, angled toward pavement for spreader
	Two (2) Weldex LED flood lights mounted above scraper on left and right side
	One (1) Weldex LED flood light mounted to illuminate wing plow
	Plow lights and aluminum plow light brackets mounted on hood
	Betts junction box and related wiring
	Install Preco 1040 back-up alarm
	Controls, Switches and Disconnects including the following:
	OEM chassis and InPower switches shall control the emergency & work lighting Chassis switches for the following:
	Scraper work lights Spreader work lights
	Wing work lights
	Air-tailgate
	Console switches for the following:
	Tarp in/out
	Camera Wash/Camera Air
	Force America CommandAll programmable switch assembly installed for the following:
	Low-oil pump override
	Front flashers
	Rear flashers
	Attachment flashers
	Spreader on/off
	Couplers for attachments shall be located behind the cab
	Electrical plug for attachment lighting located behind cab at the rear of chassis for attachment hook up
	Electrical plug for attachment lighting located behind cab at the real of chassis for attachment floor up



	Granular feedback as well as pre-wet shall be included in a disconnect mounted behind cab Air controls for air trip tailgate shall be located at the rear of the chassis just behind fenders
	Tarp system controls wired to rear of chassis just behind fenders including a two-terminal electrical plug
Install	Flaming River Electrical Shutdown including the following:
	3-minute timed delay switch mounted in-dash
	Enclosure with LED indicator mounted at bottom of hydraulic tank
Install	Wireless ARC Temperature Sensor linked to Force America 6100 spreader controller
	Road temperature sensor mounted on mirror & display mounted in-dash
	Sensor cables for connecting to Force America 6100 spreader controller
Install	Includes mounting, necessary wiring and installation
Install	Precise AVL Monitoring System including the following:
	City-supplied Precise unit, tying into proximity switches
Install	City to supply unit and cables for wiring
Install	Rearview Camera with Wash System including the following:
	M.S. Foster & Associates Inc. system mounted to chassis-mounted lightbar System tying into chassis wiper fluid reservoir
	Chassis wiper controls for activating wash system, momentary in-cab switch for air puffer
	Air puffer & washer fluid tubing
	VCMS20B color camera
	CEC34L1 main cable for monitor
	VOSHD6MNT LCD monitor mount
	MSF5000 stainless steel camera box
	VOM74WP 7" LCD color monitor
Install	ProTech stainless steel fenders for tandem axle chassis including the following:
	Fenders shall be constructed of 14 ga minimum 304 or 403 polished stainless steel
	Stainless steel mounting brackets at the front and at the rear
	The fender kit shall include a mounting bracket between the drives that joins two single radius ½ fenders
	so that when assembled the fenders are a double radius fender covering both front and rear drive tires
	Flaps mounted at the front and at the rear of the fenders on rear axles
Install	¾" Rear Hitch Plate including the following:
	PH-20 pintle hook with multi-drill mounting holes for adjustment height (mounted at 22" to cradle)
	Two (2) ¾" D-rings welded on each side for tow chains
	The rear hitch shall have support bracing welded for extra strength and stability
	Rear tow hooks mounted outside of frame rails
	Electric plug 7-way round pin
	License plate frame and light
Install	
Install	One (1) pry bar tube holder mounted to chassis, include rubber bumper inside tube to prevent rattling
Install	One (1) spade holder mounted to the chassis
Install	Removable ICC bumper for when flatbed is in use
Install	Fire Extinguisher and Triangle Kit
Install	Conspicuity Tape as necessary on chassis and attachments
Install	Rustproof top of floor in-cab, remove floor mat and install rustproofing Minimizer Floor Mats for International 7400 (mo. FKINTL3B-MIN)
Install	WININIZEI FIOUI WALS IUI IIILEITIALIUNAI 7400 (IIIO. FAINTL3B-WIN)

Above installed and non-stainless steel painted: \$126,830.00 ea.

Base Attachment #1 V-box Spreader

Install Skid-mounted Monroe MCV-168-84-62 Dual Auger Combination Spreader including the following:



53-7/8" hook and skid assembly Rollers at the end of the skid assembly Skid assembly will be hot-dip galvanized 10 gauge 201 stainless steel hopper 45 degree sloped sides with 2" double crimped top edge 7 gauge 201 stainless steel longitudinals tied together with 3" formed channel cross-sills Dual 7" auger conveyor system with planetary gearbox drive system Integral speed sensor in one auger motor Inverted-V installed over augers; 201 stainless Bearing grease extensions kits Auger units include a top-grate kit with lock-down provisions Hopper length is 168" Hopper width is 84" Hopper height is 62" Stainless steel hopper and spinner construction Front-mounted stainless steel spillshield Side-mount stainless steel fold-up ladder, driver-side front Tip-up rear adjustable spinner assembly, 201 stainless, poly disc Right-hand stainless steel winch kit with brake for tip-up assembly Install Pre-Wet System including the following: Twin 125 gal tanks Remote vent kit for liquid tanks Bulk fill and flusher kit (2" female bulkfill) Crossover hose kit 7 GPM pre-wet pump with Dickey-John application rate sensor Pre-wet spray tube installed in auger trough Install all necessary supports and brackets Install stainless steel pipe kit from the rear of the spreader to the front of the spreader and equip with stainless couplers for the auger, spinner and pre-wet circuits Install Custom Lighting & Electrical including the following: Stainless steel light box at rear top of Vbox including: LED marker light kit, two (2) Star Amber flashers, two (2) Star Green flashers & two (2) SoundOff LED STT lights Install two (2) single-hole stainless steel light boxes at rear, one on each side for SoundOff STT light Install two (2) SoundOff LED mPower (mo. EMPC2SMS4) amber/green flashers, one each side of the V-box Wire circuits to the front of the body for accessory lighting and application rate sensors Install Betts junction box at the rear of the body **Base Attachment #1 installed pricing:** \$29,815.00 ea.

Base Attachment #2 Dump Body

Install Skid-mounted Crysteel Select 14' Stainless Steel Dump Body including the following:

53-7/8" hook and skid assembly Body sides and ends are constructed of 7 gauge type 201 stainless steel 84" wide body Tailgate height is 46" Side height at the front and rear is 36" Western understructure with a SwapLoader skid assembly longitudinal Body floor is ¼" AR450 Air-operated tailgate with screw latch lock



Install turnbuckles in tailgate Tailgate is 9-panel construction with 2 intermediate horizontal braces and 2 vertical intermediate braces and a boxed perimeter 12" cabshield constructed of 10 gauge stainless steel is included Dump body sides and ends will be unpainted type 201 stainless steel Body longitudinal and bottom of floor will be painted black Rollers installed at the rear of the skid Install Roll-Rite model 64000 Tarp System including the following: Electrical disconnect kit Includes aluminum tarp and single tarp arms Wire to plug assembly at the rear of the dump body with plug Mesh-type tarp cover included Install Custom Lighting & Electrical including the following: 3-hole tapered stainless steel light wedge boxes mounted on rear pillar posts: Driver-side 3-hole top-to-bottom Star green, SoundOff STT, Star amber Passenger-side 3-hole top-to-bottom Star amber, SoundOff STT, Star green *Flashers hooked up to wig-wag corner to corner Install two (2) SoundOff LED mPower (mo. EMPC2SMS4) amber/green flashers, one each side of dump LED body marker lights

\$22,310.00 ea.

Install Betts junction box at the rear of the body

Wire to plug assembly at the rear of the dump body light and tarp disconnect

Base Attachment #2 installed pricing:

Base Attachment #3 Anti-Ice Tank

Install Skid-mounted Tank Assembly including the following:

53-7/8" hook and skid assembly Rollers at the end of the skid assembly Skid assembly will be hot-dip galvanized 2350 gal tank with a 1.9 rated specific gravity Tank includes center wall baffle system 3-lane, closed loop, non-tiered plumbing kit 190 gpm centrifugal pump with hydraulic motor (Needs 12 gpm for proper operation) Raven flow meter Three-lane electric boom valves Three-lane stainless steel wet booms with streamer nozzles; telescoping mount Plumb hydraulic circuit from rear to left front corner of skid for hookup/disconnect just behind the cab Wire boom valve circuit, flow meter circuit and lighting circuit from rear of skid to left front corner of the skid for hook up just behind the cab Ball valve shutoff on the supply port Install two (2) two-hole stainless steel light boxes mounted at rear on each side for one (1) Star Amber & one (1) Star Green LED flashers with alternating flashing pattern and two (2) SoundOff STT lights Install two (2) single-hole stainless steel light boxes at rear, one on each side for one (1) Star Amber & one

(1) Star Green LED flashers

Wire circuits to the front of the body for accessory lighting

Install Betts junction box at the rear of the body

Base Attachment #3 installed pricing:

\$24,545.00 ea.



Chassis requirements to be confirmed prior to order entry:

CT: 138" Delete OEM bumper Front frame extension Front of engine PTO Stationary grille 6-pack of chassis switches Plow light/headlight switch Highest ground clearance package Horizontal DPF mounted under the curbside door or behind cab Right side with a vertical tailpipe Trailer wiring to the rear for electric brake controller Temporary fuel tank

Payment Terms: Net 30. Pricing effective for 45 days.

Pricing does not include any of the Rochester Hills RFQ discounts that may be applicable. 2% discount off total taken at invoice if payment received within 30 days. City of Novi 360 days ARO **Delivery:**

Thank you for the opportunity to quote.

Respectfully submitted by, Jon Luea/Brian Bouwman

FOB: