

FLORIDA SHERIFFS ASSOCIATION & FLORIDA ASSOCIATION OF COUNTIES

FSA20-EQU18.0 HEAVY EQUIPMENT CONTRACT

THE FOLLOWING ITEMS WILL BE FACTORY INSTALLED ON THE BASE VEHICLE/EQUIPMENT TO MEET THE MODEL NUMBER AND BUILD CODES OF THE VEHICLE LISTED. PLEASE REFER TO THE EMERGENCY VEHICLE LIGHTING AND SIRENS SECTION WITHIN THIS CONTRACT FOR DESCRIPTIONS, SPECIFICATIONS AND AWARDED VENDOR PRICING.

SPECIFICATION GROUP - BOAT: Aquatic Weed Cutter Workboat

Make: Weedoo Model TC-3012

Make: Weedoo Model: Aqua Harvester TC-3001

Make: Weedoo Model: TC 6450 Amphi-King

Make: Alamo Industrial (CONVER) Model: C485

Make: Alamo Industrial (CONVER) Model: C550

FSA Item Specifications Description:

1. GENERAL DIMENSIONS a. Height- 8` b. Width-7` 3" c. Length- 15` d. Height from waterline- 48" e. Boat draft- 4" to 6" f. Weight - 2285 lbs
2. ENGINE a. 3 cylinder diesel engine b. Liquid cooled c. Electric start, and charging system
3. HYDRAULICS a. Triple pump design b. 27 GPM c. Eco friendly hydraulic fluid
4. PROPULSION a. Twin hydraulic outdrives b. Weed and mud design propellers
5. VESSEL HULL a. Fiberglass/ Kevlar design b. Deck mounted cutter and loader
6. BOOM CUTTER a. Hydraulic drive b. Full articulation to cut 5` below waterline
7. FRONT END LOADER a. Marine type vegetation bucket
8. OPERATOR STATION a. All hydraulic functions/propulsion functions controls
9. TRAILER Trailer to be designed specifically for this workboat and will meet all federal, state, and local laws for a trailer operated on the highway.

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SPECIFICATION GROUP - BULLDOZER: 70HP Bulldozer Tractor with Canopy, Standard - Wide Track

Make: Caterpillar Model: D1

Make: John Deere Model: 450K

FSA Item Specifications Description:

1. ENGINE: a. Minimum 4 cylinder 70 Net HP
2. TRANSMISSION: a. Hydrostatic, infinitely variable speed. b. Constantly variable
3. UNDERCARRIAGE: a. Minimum 5 rollers b. Standard grouser minimum of 16" c. Top roller, each side
4. DOZER: a. Minimum 96" wide b. Minimum 32" high c. Minimum 1.88 cyd blade capacity d. Power, angle, tilt (PAT) type blade

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SPECIFICATION GROUP - BULLDOZER: 90HP Bulldozer Tractor with Canopy, Standard - Wide Track

Make: Caterpillar Model: D2

FSA Item Specifications Description:

1. ENGINE: Minimum 4-cylinder 90 Net HP.
2. TRANSMISSION: Hydrostatic, infinitely variable speed; Constantly variable.
3. UNDERCARRIAGE: Minimum 6 rollers; Standard grouser minimum of 18"; Top roller, each side.
4. DOZER: Minimum 104" wide; Minimum 36" high; Minimum 2.5 CU YD blade capacity; Power, angle, tilt (PAT) type blade.

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SPECIFICATION GROUP - BULLDOZER: 180HP Bulldozer Tractor with Canopy

Make: Caterpillar Model: D6

Make: John Deere Model: 850L

Make: Komatsu Model: D65EX-18

FSA Item Specifications Description:

1. ENGINE: Minimum 6 cylinder 180 H.P. diesel engine.
2. TRANSMISSION: Power shift or hydrostatic drive; Power shift to have 3 forward and reverse gear ranges minimum; Hydrostatic drive to be variable.
3. UNDERCARRIAGE: 7 rollers each side minimum; Top roller each side minimum; Manufacturers standard length track; Manufacturers standard track width; 24" grouser width.
4. DOZER BLADE: 128" wide; 48" high; 2.5 cubic yard blade capacity; PAT type blade, power angle and tilt, hydraulically controlled.
5. OPERATING WEIGHT: Minimum Operating Weight - 43,000 lbs.

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SPECIFICATION GROUP - BULLDOZER: 90HP Bulldozer Tractor with Canopy

Make: John Deere Model: 550K

Make: Komatsu Model: D39EX-24

FSA Item Specifications Description:

1. ENGINE: Minimum 4-cylinder 90 Net HP.
2. TRANSMISSION: Hydrostatic, infinitely variable speed; Constantly variable.
3. UNDERCARRIAGE: Minimum 6 rollers; Standard grouser minimum of 18"; Top roller, each side.
4. DOZER: Minimum 104" wide; Minimum 36" high; Minimum 2.5 CU YD blade capacity; Power, angle, tilt (PAT) type blade.

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SPECIFICATION GROUP - CHIPPER: Brush Chipper - Trailer Mounted

Make: Bandit Model: 15XPC

Make: Dura Tech Model: TC-15

Make: Vermeer Model: BC1500XL

FSA Item Specifications Description:

1. DIMENSIONS: Weight - 6800 lbs; Width - 72"; Height - 100"; Length - 176"; 15" chipping capacity.
2. ENGINE: 122 hp diesel engine; Over center type clutch; Heavy duty air cleaner; Spin on type filters. CHASSIS: Main frame constructed of rectangular tubing or "z" section; 7000 lb. axle torsion type; Electric brakes with breakaway switch; ST 235/80R16 tires load range E; Steel wheels; Drop leg jack; 2 1/2" diameter lunette or 2 5/16" ball hitch; Adjustable height hitch; Safety chains; 6-way light connector; All wiring in conduit to lights; Four function rear lights.
3. FEED SYSTEM: Infeed throat opening - 20" x 15"; Serrated infeed rollers; Feed rollers hydraulically driven; Feed table height - 27"; Feed table length - 30"; Safety control bar a round infeed opening for emergency stop.
4. CHIPPER DRUM OR DISC: Drum type: Size - 22" diameter x 22" width; 2 knife pockets 180 degrees apart; Dual edge reversible knives; Extreme duty bearings; Adjustable bedknife (reversible); Disc type: 37" x 2" diameter disc; 4 knives reversible.
5. CHIPPER HOUSING: Easy access door for knife changes; Drop down door for anvil adjustment or clean out; Chipper housing to be constructed for maximum safety and operator protection.
6. DISCHARGE CHUTE: Rotation of 360 degrees; Adjustable chip deflector; Locking pin for chute rotation. MISCELLANEOUS: 26 gallon fuel tank; Engine shutdown system; Locking tool box; Vandalism protection.

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SPECIFICATION GROUP - COMPACTOR: 80,000 LB Landfill Compactor

Make: Al-Jon Model: Advantage

Make: Bomag Model: BC772RB-4

Make: Caterpillar Model: 826

Make: Tana Model: E380

Make: Volvo Model: LC450H

FSA Item Specifications Description:

1. WEIGHT: Minimum operating weight - 80,000 lbs.
2. ENGINE: Turbocharged diesel engine 400 hp minimum; Spin on type filters.
3. TRANSMISSION/HYDRAULIC SYSTEM: Mechanical or hydrostatic drive will be acceptable; 2 speeds forward and 2 speeds reverse, minimum; Spin on type hydraulic filters.
4. OPERATING STATION: Enclosed, sound suppressed cab; Air filtration system; Air conditioned, heater and defroster; Gauges and engine monitoring shutdown system; Adjustable suspension seat; Outside mirrors; Work lights; Windshield wipers and washer.
5. ELECTRICAL SYSTEM: 24-volt. WHEELS: Compaction wheels - 48" width minimum; Wheel diameter - 58" width minimum; Chevron chopper blades, weld-on or pin-on teeth type wheels acceptable; Anti-wire wrapping device, if applicable; Cleaner bars, if applicable.
6. BLADE: Straight or U type trash blade acceptable; 14' blade minimum; 6' blade height minimum; Full width trash screen on top of blade; Bolt on cutting edges.
7. MISCELLANEOUS: Fully shielded engine compartment; Removable belly pan; Landfill shielding package, if applicable.

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SPECIFICATION GROUP - COMPRESSOR: Air Compressor - Trailer Mounted

Make: Atlas Copco Model: XAS 188 T4F

Make: Doosan Model: P185WDO-T4F

Make: MULTIQUIP Model: DIS185SSI4F

Make: Sullair Model: 185 T4F

Make: Sullivan Palatek Model: D185PDZ

FSA Item Specifications Description:

1. APPROXIMATE DIMENSIONS: Weight: 1950 lbs.; Length: 79 Inches; Width: 40 Inches; Height: 47 Inches.
2. ENGINE: 49 hp Tier 4 Engine; 12 Volt electrical system; Engine protection system; Gauge package.
3. COMPRESSOR: 185 cfm @ 100 psi; Rotary or reciprocating style compressor; 2 service valves.
4. TRAILER: 3700 GVW axle rating; Manufacturer Rated Tires; Fold up tongue jack.
5. ENCLOSURE: Fixed weather enclosure over entire engine/compressor; 2 Full size tool boxes.

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SPECIFICATION GROUP - DUMP TRUCK: Articulating Off Road Dump Truck - 50,000 LB Payload

Make: Bell Model: B25E

Make: Caterpillar Model: 725

Make: Doosan Model: DA30-5

Make: Komatsu Model: HM300-5

Make: John Deere Model: 260E

Make: Volvo Model: A25G

FSA Item Specifications Description:

1. WEIGHT: a. Minimum operating weight - 40,000 lbs. b. Minimum gross weight (with payload) - 91,000 lbs.
2. ENGINE: a. Turbocharged diesel engine, 265 hp, 549 cubic inch minimum. b. Spin on type filters. c. Two stage air cleaner.
3. TRANSMISSION: a. 6 speeds forward, 1 speed reverse. b. Top speed of 31 mph c. Hydraulic retarder
4. BRAKES: a. Disc type service brakes. b. Disc type parking brake.
5. AXLES & DIFFERENTIALS: a. Differential locks b. Planetary gear reduction final drives. c. Inter axle differential lock.
6. TIRES: a. Tubeless, radial off road hauler tires. b. 23.5 R 25 tire size
7. STEERING: a. 45 degree left or right articulation angle. b. Secondary electric steering system for emergency steering. c. Double acting steering cylinders.
8. OPERATING STATION: a. Cab to be pressurized, heated, air conditioned and filtered. b. Built in ROPS/FOPS protection. c. Suspension type operators seat with seat belt. d. Cab instrumentation or engine monitoring system with audible alarms. e. Tinted glass windows. f. Sun visor g. Front and rear intermittent windshield wipers. h. Work lights, headlights, stop, tail and turn signal lights. i. Left and right mirrors.
9. BODY: a. Dump body tipping angle 70 degrees. b. Mud flaps c. Two single stage double acting body hoist cylinders. d. 18 yd. heaped capacity e. Body rise time maximum 12 seconds.
10. MISCELLANEOUS: 95 gallon fuel tank minimum. b. Guard or shielding package.

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SPECIFICATION GROUP - EXCAVATOR: Telescopic Excavator - 45,000 LB Operating Weight - Track

Make: Gradall Model: 4200

FSA Item Specifications Description:

1. WEIGHT: a. Minimum operating weight 45,000 lbs.
2. ENGINE: a. 4 cylinder turbocharged diesel, 170 HP at 2200 RPM b. Spin on type filters c. Two stage air cleaner d. 12 volt 100 AMP alternator e. 90 gallon fuel capacity
3. TRACK DRIVE: a. Two speed, automatic with manual override b. High torque piston motors each track c. Planetary drives d. Travel speed high 3.4 MPH, Low 1.9 MPH e. Automatic parking brake f. Individual track control
4. TRACKS: a. 23.6 pad size
5. OPERATOR'S STATION: a. Acoustical lined b. Adjustable seat c. Tinted safety glass d. Filtered fresh air e. Heater, air conditioned, and defroster f. Wipers and washers g. Skylight h. Work lights
6. OPERATOR'S STATION CONTROLS: a. Electric engine monitoring system b. Auto idle c. Electronic joysticks on adjustable pedestals d. Pedals for travel and steering e. Low/high travel switch f. Engine speed control
7. SAFETY ITEMS: a. Electric horn b. Movement alarm c. Fire extinguisher d. Mirrors, right and left side
8. HYDRAULIC SYSTEM: a. Hydraulic oil cooler b. 120 HP track drive motors (each) c. 64 HP swing motor d. Electronic hydraulic system monitor e. Spin on hydraulic filters f. Swing speed 7.0 RPM g. Automatic swing brake
9. BOOM: a. Telescopic boom b. 180 degree boom rotation c. 30` reach at ground level from center pivot to buck cutting edge 10. BUCKET: a. 60" ditching bucket provided with machine b. Quick attach type
1. WEIGHT: a. Minimum operating weight 47,000 lbs.

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SPECIFICATION GROUP - EXCAVATOR: Telescopic Excavator - 47,000 LB Operating Weight - 6X6 Wheel

Make: Gradall Model: XL4100

FSA Item Specifications Description:

1. WEIGHT: a. Minimum operating weight 47,000 lbs.
2. CARRIER: Carrier Engine: 1. 6 cylinder turbocharged diesel 250 hp at 2200 rpm 2. Spin on type filters
3. Two stage air cleaner
4. 24 volt 70 amp alternator a. Carrier Transmission & Clutch: 1. 6 speed automatic transmission b. Carrier Transfer Case: 1. 1 to 1 transfer case 2. Front axle disconnect c. Carrier Cab: 1. One person cab 2. Air ride seat 3. Heater, air condition, and defroster 4. 2 speed windshield wipers
5. Tinted glass 6. Isolated and acoustic lined 7. Gauges to monitor engine functions d. Frame: 1. Sized for GVW and stress of mounted upper structure 2. Bolt on front bumper 3. Desiccant type, spin on type, air dryer 4. Fuel tank 50 gallon minimum e. Safety: 1. Electric horn 2. West coast mirrors with convex spot mirrors 3. Tow hooks 4. Fire extinguisher 5. Backup alarm f. Front Axle: 1. 16,000 front drive axle 2. Leaf spring suspension 3. 16.5x5 "S" cam brakes 4. Automatic slack adjuster 5. Integral power steering 6. Hydraulic axle lockouts 7. 425/65R22.5 on/off road tires g. Rear Axle: 1. Tandem axles 40,000 lb. rated 2. Hendrickson rear suspension 3. 16.5x7 "S" cam brakes 4. Automatic slack adjusters 5. 11R 24.5 traction type tires h. 3. UPPER STRUCTURE: Hydraulic System: 1. 80 HP drive motor 2. 44 HP swing motor a. 3. Automatic swing park brake 4. 50 gallon oil reservoir 5. Spin on hydraulic filters
6. Swing speed 8 RPM Hydraulic Remote Control: 1. Travel and steering controls in upper structure cab 2. Automatic brakes and axle lockouts 3. Movement alarm b. Upper Structure Cab: 1. Isolated and acoustic lined 2. Tinted safety glass 3. Adjustable operators seat 4. Heater, air condition, and defroster 5. Work lights 6. Wipers and washers
7. Mirrors on left and right
8. Skylight c. Upper Structure Control: 1. Electronic joysticks on adjustable pedestals 2. Engine monitoring lights or gauge with audible warning or automatic shutdown 3. Pedals for steering and travel 4. Low/high travel switch 5. Electric horn 6. Engine speed control d. Bucket: 1. Quick attach type 2. 60" ditching bucket provided with machine e. Boom: 1. Telescopic boom 2. 180 degree boom rotation 3. 30` reach at round level from upper structure pivot to bucket cutting edge.

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SPECIFICATION GROUP - EXCAVATOR: Wheeled Hydraulic Excavator - 42,000 LB Operating Weight

Make: Caterpillar Model: M318

Make: Doosan Model: DX210WE-5

Make: Hitachi Model: ZX19W-5

Make: Hyundai Model: HW180

Make: John Deere Model: 190 GW

Make: Volvo Model: EW180E

FSA Item Specifications Description:

1. WEIGHT: a. Minimum operating weight - 42,000 lbs.
2. ENGINE: a. Turbocharged diesel engine 140 hp b. Spin on type filters c. Two stage air cleaner
3. TRAVEL SYSTEM: a. Travel speed of 21 mph
4. HYDRAULIC SYSTEM: a. Standard auxiliary hydraulic valve. b. Hydraulic system flow 99 gpm minimum.
5. WHEEL DRIVE: a. Wheelbase 8` minimum b. Tire size 10:00x20 c. Ground clearance 13" minimum d. Gradeability 61 percent
6. OPERATING STATION: a. Cab to be air conditioned, heated, and pressurized filtration system. b. Intermittent windshield wipers. c. Opening front windshield. d. Vibration dampening cab mounts. e. Adjustable suspension type operator seat with safety belt. f. Tinted safety glass. g. Engine monitoring system with audible alarms. h. Work lights. i. Tail, stop, turn, and emergency flashers.
7. STICK, BOOM, BUCKET: a. Boom and stick combination to allow minimum reach at ground level of 30` minimum. b. Bucket to be a general purpose bucket, appropriately sized for machine and included.
8. SWING SYSTEM: a. Swing radius 7 ft. approximate. b. Swing speed 9.5 rpm minimum.
9. MISCELLANEOUS: a. Fuel capacity of 77 gallons minimum.
10. BLADE/OUTRIGGERS: a. Front blade with 8` minimum b. Rear outriggers FLO

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SPECIFICATION GROUP - EXCAVATOR: All Terrain Walking Excavator

Make: Kaiser Model: S8

Make: Menzi Model: Muck

FSA Item Specifications Description:

1. WEIGHT: 15,873 lbs. 2x4; 17,196 lbs. 4x4 Option.
2. ENGINE/CAB: Diesel engine, minimum 95 net horsepower; Roll over enclosed cab air conditioned and heated; Hinged quick release side window for emergency exit (operational at all boom positions); Hinged front window opening outward for safety (not inward reducing operator head room); Gauges or warning indicators for fuel level, engine oil, hydraulic oil and coolant; Mirrors; Air suspension operators` seat; Full size cab (width of machine).
3. TRAVEL SYSTEM: Minimum high-speed travel - 5 mph; Minimum grade-ability 70%; Four tires.
4. HYDRAULIC SYSTEM: Digging depth - 15`4"; Auxiliary hydraulic circuit and controls plumbed to the end of stick with disconnect to allow the use of hydro-mechanical work tools; Hydraulic swing system; Stabilizers to be individually controlled in the vertical and horizontal positions.
5. ELECTRICAL SYSTEM: Work lights.
6. BUCKET: 4` wide grading bucket.

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SPECIFICATION GROUP - EXCAVATOR: Hydraulic Excavator - 15,590 LB Operating Weight

Make: Bobcat Model: E85R

Make: Bobcat Model: Excavator E145

Make: Caterpillar Model: 308

Make: Doosan Model: DX85R-3

Make: Hitachi Model: ZX75US-5

Make: Hyundai Model: R80CR-9A

Make: John Deere Model: 75G

Make: Kobelco Model: SK-75SR-3E

Make: Komatsu Model: PC88MR-10

Make: Kubota Model: KX080-4S

Make: Link-Belt Model: 75X3

Make: Takeuchi Model: TB290

Make: Volvo Model: ECR88D

FSA Item Specifications Description:

1. WEIGHT: Minimum operating weight 15,590 lb. ENGINE: Diesel engine, 53 horsepower; Fuel capacity 26 gallons.
2. TRAVEL SYSTEM: Minimum high-speed travel of 3.0 mph.
3. UNDERCARRIAGE: Overall track length 9`1"; Overall track width 11` minimum 7`6"; Shoe width 17.7" minimum.
4. OPERATING STATION: ROPS Cab to be air conditioned, heated and pressurized filtration system; Opening front windshield; Adjustable suspension type seat with safety belt; Tinted safety glass; Engine monitoring system with audible alarms; Work lights.
5. STICK, BOOM, BUCKET: Boom and stick combination to allow minimum reach at ground level of 20`11"; Bucket to be general purpose bucket, appropriately sized for machine and included. SWING SYSTEM: Swing radius 5` approximate; Swing speed 9.0 RMP.

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SPECIFICATION GROUP - EXCAVATOR: Hydraulic Excavator - 38,000 LB Operating Weight

Make: Caterpillar Model: 316F

Make: Doosan Model: DX180LC-5

Make: Hitachi Model: ZX160LC-6

Make: Hyundai Model: HX160L

Make: John Deere Model: 160GLC

Make: Kobelco Model: SK170LC

Make: Komatsu Model: PC170LC-11

Make: Link-Belt Model: 160X4

Make: Volvo Model: EC160E

FSA Item Specifications Description:

1. WEIGHT: Minimum operating weight - 38,000 lbs. ENGINE: Turbocharged diesel engine 113 hp.
2. TRAVEL SYSTEM: Travel speed of 3.2 mph.
3. HYDRAULIC SYSTEM: Standard auxiliary hydraulic valve; Main hydraulic system flow 72 GPM minimum.
4. UNDERCARRIAGE: Overall track length 12` 10" minimum; Overall track width 8`5" minimum; Shoe width 24".
5. OPERATING STATION: ROPS Cab to be air conditioned, heated and pressurized filtration system; Intermittent windshield wipers; Opening front windshield; Adjustable suspension type operator seat with safety belt; Work lights.

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SPECIFICATION GROUP - EXCAVATOR: Hydraulic Excavator - 76,550 LB Operating Weight

Make: Caterpillar Model: 336

Make: Doosan Model: DX350LC-5K

Make: Hyundai Model: HX330L

Make: John Deere Model: 350GLC

Make: Komatsu Model: PC360LC-11

Make: Kobelco Model: SK350LC

Make: Link-Belt Model: 350X4

Make: Volvo Model: EC350 E

FSA Item Specifications Description:

1. WEIGHT: Minimum operating weight - 76,550.
2. ENGINE: Turbocharged diesel engine 257 HP; Fuel capacity 145 gallons. TRAVEL SYSTEM: Travel speed of 2.9 mph.
3. HYDRAULIC SYSTEM: Standard auxiliary hydraulic valve; Main hydraulic system flow 144 GPM minimum.
4. UNDERCARRIAGE: Overall track length 16`2"; Overall track width 10`6"; Shoe width 24".
5. OPERATING STATION: ROPS Cab to be air conditioned, heated and pressurized filtration system; Intermittent windshield wipers; Opening front windshield; Adjustable suspension type operator seat with safety belt; Tinted safety glass; Engine monitoring system with audible alarm; Work lights.
6. STICK, BOOM, BUCKET: Boom and stick combination to allow minimum reach at ground level of 35`6"; Bucket to be a general-purpose bucket, appropriately sized for machine and included. SWING SYSTEM: Swing radius 12; Swing speed 9.2 RPM.

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SPECIFICATION GROUP - EXCAVATOR: Mini Hydraulic Excavator - 7,105 LB

Operating Weight

Make: Bobcat Model: E32 R

Make: Caterpillar Model: 303E CR

Make: Doosan Model: DX35-5

Make: Hitachi Model: ZX35-U-5

Make: Hyundai Model: R35Z-9A

Make: John Deere Model: 35G

Make: Kobelco Model: SK35SR

Make: Komatsu Model: PC35MR-5

Make: Kubota Model: U35-4

Make: Takeuchi Model: TB240

Make: Volvo Model: EC 35 D

Make: Yanmar Model: Vi035-6A

FSA Item Specifications Description:

1. WEIGHT: 7,105 minimum weight.
2. ENGINE/CAB: Diesel engine, minimum 23 HP; ROPS canopy; Gauges or warning indicators for fuel level, engine oil, hydraulic oil and coolant.
3. TRAVEL SYSTEM: Minimum high-speed travel 2.3 MPH; Minimum gradeability, 20 degrees; 11" wide rubber belt tracks.
4. HYDRAULIC SYSTEM: Digging depth 9` minimum; Auxiliary hydraulic circuit and controls plumbed to the end of stick with disconnect to allow the use of hydro-mechanical work tools; Backfill blade; Hydraulic swing system.
5. ELECTRICAL SYSTEM: Work lights.

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SPECIFICATION GROUP - EXCAVATOR: Trailer Mounted Vacuum Excavator, 14,000 LB GVWR

Make: RamVac Model: Vacuum Excavator

Make: Vac-Con Model: Mudslinger

Make: Ver Make: X-Vac

Model: X800meer Model: LP873SDT

FSA Item Specifications Description:

1. WEIGHT: 14,000 lb. GVWR.
2. ENGINE: 36 hp diesel engine; Water cooled; Fully enclosed sound attenuated engine enclosure (including vacuum pump and high-pressure water pump); 15 gallon fuel tank.
3. VACUUM PUMP: 580 CFM at 15 inches of mercury; Mounted inside engine enclosure; Washable filtration cylinders; Reverse pressure (to clear hose and offload liquids).
4. HIGH PRESSURE WATER SYSTEM: 400 PSI at 4 GPM water pump; Low water automatic shutdown; Two 100 gallon poly water tanks; 50` high pressure water hose on hose reel; 5` and 3` wand and control handle. CONTROLS: Lockable and waterproof; Curbside located; Oil pressure, water temperature, fuel and vacuum gauge; Electronic throttle.
5. TANK: Full open rear door; Door hydraulically opened; Twin dump cylinders; 6" stainless steel portal shutoff; 800-gallon debris tank capacity. BOOM: 4" pickup hose; Hydraulically powered in/out and up/down; Boom cradle; 360-degree movement; 2 dielectric 3" suction wands; 33` rubber suction hose.
6. TRAILER: 7,000 lb. dexter torsion axles; 14,000 lb. GVWR; 10,000 lb. jack stand; I beam construction; Pintle hitch; Electric brakes with safety breakaway; LT235/85R16 tires; Stop/tail/turn lights

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SPECIFICATION GROUP - GENERATOR: 125kW Generator Package

Make: AKSA Model: ULJ-125

Make: Blue Star Power Systems Model: JD125-02

Make: Caterpillar Model: D125-8

Make: Generac Model: SD130

Make: Gillette Generators Model: SPJD-1250

Make: LJP Model: ULJ125

Make: Tradewinds Model: T125

FSA Item Specifications Description:

1. GENERATOR REQUIREMENTS: Standby duty rated at 125.0 kW, 156.3 KVA, 8 power factor; 480 volts; 3 phase, 60 hertz, 1800 rpm; Directly connected to the engine flywheel housing with flex coupling; Generator shall meet performance class G3 of IEC; Unit shall be in compliance with and be UL 2200 labeled.
2. ENGINE: Water cooled diesel engine, sized for generator set; Emission compliant engine.
3. CONTROLS: Solid state, microprocessor-based generator controls; Controls shall provide all operating, monitoring and control functions for generator set.
4. ENCLOSURE/SILENCER: Complete diesel engine generator set including control panel, engine starting batteries and fuel oil tank shall be enclosed in a factory assembled water protective, sound attenuated enclosure; Critical grade silencer; Companion flanges; Flexible stainless-steel exhaust. FUEL TANK: Double wall sub-base tank integral to enclosure; 24-hour capacity at 100% at full load; Rupture basin with 110% capacity; Locking fuel caps; Mechanical fuel level gauge; Low fuel level alarm contact; Fuel tank rupture alarm contact; Must meet UL 142 and FDEP standards.
5. BATTERY CHARGER: Current limiting battery charger to automatically charge batteries; Charger shall be dual charge rate with automatic switching to boost rate when required; Charger shall be mounted on genset package.
6. STARTUP AND TESTING: Vendor must coordinate all startup and testing activities with the engineer and owner. After installation is completed by others and normal power is available, the vendor must perform a one (1) day startup including the use of building load; The startup technician will instruct all necessary personnel how to operate and maintain the equipment in accordance to the manufacturer's requirements.

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SPECIFICATION GROUP - GENERATOR: 125kW Generator Package (Continued from previous page)

7. **CONDITIONS:** In addition to equipment specified, each generator shall be equipped with all standard equipment as specified by the manufacture for this model and shall include but not be limited to the following necessary items: Initial filling of oil and antifreeze (fuel provided by others); Shrink wrap applied to the product to ensure a clean finish; During the startup, the technician shall record the following information and provide to the owner for his records: Record Operating Voltage, Hz, Ph, and connected load (Amperage); Package information consisting of make of generator (Cat, Wacker, or Tradewinds), model (TJ125 TP20, DP125, etc.), Serial number of complete package, and startup date; Record engine and generator serial numbers; One complete set of operation and maintenance manuals; Two (2) year or 1500-hour standard standby generator warranty; Labor, materials, and travel for the warranty period repair will be paid by manufacturer during normal business hours.

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SPECIFICATION GROUP - GENERATOR: 150kW Mobile Generator Package

Make: Atlas Copco Model: QAS 250

Make: Blue Star Power Systems Model: VD150-02FT4MP

Make: Doosan Model: G190 WCU-34-T4F

Make: Generac/Magnum Model: MDG175DF4

Make: LJP Model: AT150

Make: MULTIQUIP Model: DCA180SSJU4F3

Make: TechnoGen Model: FP200TSX

Make: Tradewinds Model: T150

Make: Wacker Neuson Model: G180

FSA Item Specifications Description:

1. GENERATOR REQUIREMENTS: Standby duty rated at 150kwe, 187kva, 8 power factor; Prime power duty rating 135kwe, 168kva, 0.8 power factor; Main Breaker shall be equipped with shunt trip; Generator end shall be Direct coupled to the engine flywheel with a flexible coupling; Generator shall meet performance class G3 of IEC; Jacket water heater.
2. ENGINE: 6-cylinder, water cooled, 1800rpm, diesel engine; Current emission compliant diesel engine; Spin on fuel and oil filters.
3. VOLTAGE CHANGE OVER SWITCH & DISTRIBUTION: Manual 3 position voltage change over switch to select each voltage as specified when the unit is not running. b. 1ph 120/240, 3ph 120/240, 3ph 120/208, and 3ph 277/480; A five-point connection shall be provided for ease of connection of load leads; One 50amp, 120/240vac, 1 ph, twist lock receptacle; One 30amp, 120/240vac, 1 ph, RV type receptacle; Two 20amp, 120/240vac, 1 ph, duplex receptacle; Two 20amp, 120/240vac, 1ph, duplex GFI receptacle; Each receptacle shall be protected by a individual circuit breaker; A receptacle shall be provided to power both the jacket water heater and on-board battery charger; Two thumb screw type connection points shall be provided for remote auto start.
4. CONTROLS: Solid state, microprocessor-based generator controls; Controls shall provide all operating, monitoring and control functions for the generator set. Controls shall provide for auto start/stop functions; A emergency stop push button will be installed; A voltage adjustment shall be provided in the panel to adjust voltage in all voltage positions; A switch shall be provided in the panel to turn all power off in the panel if not being used.

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SPECIFICATION GROUP - GENERATOR: 150kW Mobile Generator Package (Continued from Previous page)

5. ENCLOSURE: Complete diesel engine generator set including control panel, engine starting batteries and fuel tank shall be enclosed in a factory assembled weather protective, sound attenuated enclosure; The sound attenuated enclosure noise level is not to exceed 73 - 75dba @ 21 feet; Oil and water drain lines shall be provided and extend to the enclosure wall with valves for easy service; Critical grade silencer; Companion flanges; Flexible exhaust-flex; Keyed alike lockable doors. IN BASE FUEL TANK TRAILER: Trailer shall be DOT approved with proper serial number data plate indicating weight capacity minimum of 10,000 lbs; Trailer will have dual axles with torque springs to reduce overall height of package; Standard 7 or 5 pin vehicle hitch receiver to be supplied; Trailer will have two rear level jacks with sand shoes and front leveling jack; Trailer will have hydraulic brakes; Trailer will have all necessary safety equipment to include but not be limited to an adjustable and removable pintle hitch, 30-inch safety chains, fenders, lights per DOT, and break away cable; Tires will be minimum load range type "D" (8 ply rating) with matching steel rims. Rims are to be finish painted; Minimum 8-hour capacity at 75% load rating to determine single wall tank size; A mechanical fuel gauge will be provided; Locking fuel cap; Low fuel level alarm; All necessary vents and caps will be provided along with suction, return, and drain points.
6. BATTERY CHARGER: Battery will be installed in holding container with battery cables; Current limiting battery charger to automatically charge batterie; Charger shall be dual charge rate with automatic switching to boost rate when required; Charger mounted inside generator set package; Fully charged battery will be provided at time of delivery and startup.
7. STARTUP & COMMISSIONING: One (1) day startup including operational test of equipment showing proper connection of cables with safety issues performed by a factory trained technician; The startup technician will instruct personnel how to operate and maintain the equipment in accordance with the manufacturer`s requirements.
8. CONDITIONS: In addition to equipment specified, each generator shall be equipped with all standard equipment as specified by the manufacturer for this model and shall include but not be limited to the following items: All product shall be new and of current design; Initial filling of oil and antifreeze (diesel fuel by others); During startup, the technician shall record the following information and provide to owner for his records: Operating Voltage, Hertz, Phase, and connected load (Amperage) [if any]; Package information consisting of Make of generator; Model; Serial number of complete package, and startup date; Written Information consisting of make, model, serial number, and startup date; Record Engine and Generator Serial numbers; One complete set of operation and maintenance manuals; Two (2) year or 1500-hour standard mobile generator warranty will apply. Generator to be transported to authorized servicing dealer for warranty repair during normal business hours;
9. TRAILER: The trailer must have a VIN and a certificate of origin.

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SPECIFICATION GROUP - GENERATOR: 500kW Generator Package

Make: AKSA Model: APD-ULJ500

Make: Blue Star Generator Model: VD500-01

Make: Caterpillar Model: 15 ACERT

Make: Generac Model: SD500

Make: Gillette Generators Model: SPVD-5000

Make: LJP Model: ULJ500

Make: Tradewinds Model: T500

FSA Item Specifications Description:

1. GENERATOR REQUIREMENTS: Standby duty rated at 500kwe, 625kva, 0.8 power factor; 480 volts; Voltage options are: 120/240, 120/208 or 277/480 3ph; Directly connected to the engine flywheel housing with a flex coupling; Generator shall meet performance class G3 of IEC; Unit shall be compliance with UL 2200 specifications.
2. ENGINE: 6-cylinder, water cooled, 1800rpm, diesel engine; Emission compliant engine to stationary standby regulations. CONTROLS: Solid state, microprocessor-based generator controls; Controls shall provide all operating, monitoring and control functions for the generator set; Control panel is NFPA110 Compliant.
3. ENCLOSURE/SILENCER: Complete diesel engine generator set including control panel, engine starting batteries and fuel oil tank shall be enclosed in a factory assembled weather protective, sound attenuated enclosure with oil and water drain lines; Enclosure shall be constructed from aluminum, preferably out of .125 thickness and 5058 marine grade aluminum; Critical grade silencer (25DB Reduction); Companion flanges; Flexible stainless-steel exhausts flex.
4. FUEL TANKS: Double wall sub-base diesel fuel tank shall be integral to the enclosure; 24-hour capacity at 75% load rating; Rupture basin will be of 110% capacity; Locking fuel caps; All necessary vents and caps will be provided; Mechanical fuel level gauge; Low fuel level alarm contact; Fuel tank rupture basin alarm contact; Must meet UL 142 and FDEP standards.
5. BATTERY CHARGER: Current limiting battery charger to automatically charge batteries; Charger shall be dual charge rate with automatic switching to boost rate when required; Charger shall be mounted on genset package.
6. DELIVERY: Net cost includes delivery of equipment to governmental site location; Coordination and offloading of the equipment at the governmental site location will be the responsibility of the purchasing agency.

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SPECIFICATION GROUP - GENERATOR: 500kW Generator Package **(Continued from previous page)**

7. STARTUP AND COMMISSIONING: Vendor must coordinate all startup and testing activities with the engineer and owner; After installation has been completed, approved by the local electrical inspector, and normal power is available, the vendor will perform a one (1) day startup including the use of building load; The startup technician will instruct all necessary personnel how to operate and maintain the equipment in accordance to the manufacturer's requirements.
8. CONDITIONS: In addition to equipment specified, each generator shall be equipped with all standard equipment as specified by the manufacture for this model and shall include but not be limited to the following necessary items: Initial filling of oil and antifreeze; Shrink Wrap applied to the product to ensure a clean finish; During the startup, the technician shall record the following information and provide to the owner for his records: Record Operating Voltage, Hz, Ph, and connected load (Amperage); Package Information consisting of Make, Model, Serial number, and Startup Date; Record Engine and Generator Serial numbers. One complete set of operation and maintenance manuals; Two (2) years or 1000 hours standard standby generator warranty, whichever occurs first; Labor, materials, and travel for the warranty period repair will be paid by manufacturer during normal business hours.

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SPECIFICATION GROUP - GENERATOR: 500kW Mobile Generator Package

Make: Atlas Copco Model: QAS 625 T4F

Make: Blue Star Generator Model: VD500-02FT4MP

Make: Caterpillar Model: XQ570

Make: Tradewinds Model: TM500

FSA Item Specifications Description:

1. GENERATOR REQUIREMENTS: Standby duty rated at 500kwe, 625kva, 0.8 power factor; Prime power duty rating 450kwe, 563kva, 0.8 power factor; Main Breaker shall be equipped with shunt trip; Generator end shall be Direct coupled to the engine flywheel with a flexible coupling; Generator shall meet performance class G3 of IEC.
2. ENGINE: 6-cylinder, water cooled, 1800rpm, diesel engine; Current emission compliant diesel engine ; Spin on fuel and oil filters; Jacket water heater with service valves to ensure coolant does not need to be drained if heater needs service; 120vac, 1ph, 60hz input 10 amp, 24vdc, output automatic battery charger; Standard 4D lead acid batteries with battery rack and cables.
3. VOLTAGE CHANGE OVER SWITCH AND DISTRIBUTION: Manual 2 position voltage change over switch to select each voltage as specified when the unit is not running 3ph 120/208, and 3ph 277/480` ; Load leads shall be attached to the generator using two (2) forms and shall be rated for 2000 amps. Generator will be equipped with both; Five (5) compression lugs per phase rated for 400 amps each; A 20 amp, 120vac, 1ph, male receptacle shall be provided to power the jacket water heater; A 20 amp, 120vac, 1ph, male receptacle shall be provided to power the battery charger; Two thumb screw type connection points shall be provided for remote auto start.
4. CONTROLS: Solid state, microprocessor-based generator controls; Controls shall provide all operating, monitoring and control functions for the generator set. Controls shall provide for auto start/stop functions; An emergency stop push button will be installed; A voltage adjustment shall be provided in the panel to adjust voltage in all voltage positions; A switch shall be provided in the panel to turn all power off in the panel if not being used; A front face mounted circuit breaker shall be provided to protect the panel from any D.C. spikes.
5. ENCLOSURE: Complete diesel engine generator set including control panel, engine starting batteries and fuel tank shall be enclosed in a factory assembled weather protective, sound attenuated enclosure; The sound attenuated enclosure noise level is not to exceed 80 dba @ 21 feet; Enclosure shall be constructed from aluminum, preferably out of .125 thickness and 5058 marine grade aluminum; Oil and water drain lines shall be provided and extend to the enclosure

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SPECIFICATION GROUP - GENERATOR: 500kW Mobile Generator Package (Continued from previous page)

6. wall with brass ball valves for easy service; Critical grade silencer (25db reduction); Companion flanges; Flexible exhaust-flex; Keyed-alike lockable doors.
7. IN BASE FUEL TANK TRAILER: Trailer shall be DOT approved with proper serial number data plate indicating weight capacity minimum of 20,000 lbs.; Trailer will have dual axles with torque springs to reduce overall height of package; Standard 7 pin vehicle wiring connector to be supplied; Trailer will have two rear level jacks with sand shoes and front leveling jack; Trailer will have hydraulic brakes; Trailer will have all necessary safety equipment to include, but not be limited to, an adjustable and removable pintle hitch, 36-inch safety chains, fenders, lights per DOT, and break away cable; Tires will be minimum load range type "D" (8 ply rating) with matching steel rims; Rims are to be finish painted; Minimum 8-hour capacity at 75% load rating to determine single wall tank size; A mechanical fuel gauge will be provided; Locking fuel cap; Low fuel level alarm; All necessary vents and caps will be provided along with suction, return, and drain points.
8. BATTERY CHARGER: Battery will be installed in holding container with battery cables; Current limiting battery charger to automatically charge batteries; Charger shall be dual charge rate with automatic switching to boost rate when required; Charger mounted inside generator set package; Fully charged battery will be provided at time of delivery and startup; 120-volt shore power connector for battery charger.
9. STARTUP AND COMMISSIONING: One (1) day startup including operational test of equipment showing proper connection of cables with safety issues performed by a factory trained technician; The startup technician will instruct personnel how to operate and maintain the equipment in accordance with the manufacturer's requirements.
10. CONDITIONS: In addition to equipment specified, each generator shall be equipped with all standard equipment as specified by the manufacturer for this model and shall include, but not be limited to, the following items: All product shall be new and of current design; Initial filling of oil and antifreeze (diesel fuel by others); During startup, the technician shall record the following information and provide to owner for his records: Operating Voltage, Hertz, Phase, and connected load (Amperage-if any); Written Information consisting of make, model, serial number, and startup date; Record Engine and Generator Serial numbers; One complete set of operation and maintenance manuals; Two (2) years or 1000 hours standard mobile generator warranty will apply, whichever occurs first; Generator to be transported to authorized servicing dealer for warranty repair during normal business hours. TRAILER: The trailer must have a VIN and a certificate of origin.

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SPECIFICATION GROUP - LIFT: Cushion Tire Lift - 4,000 LB Capacity

Make: Caterpillar Model: 2CC4000

Make: Crown Model: CGC20SC-9

Make: Mitsubishi Model: FGC20CN

Make: Toyota Model: 8FGCU20

FSA Item Specifications Description:

1. ENGINE: a. 50 hp LP gas engine
2. TRANSMISSION: a. Powershift type b. Inching pedal c. 1 speed forward, 1 speed reverse
3. HYDRAULIC SYSTEM: a. 19.0 gpm at 2250 psi
4. CHASSIS: a. Wheelbase - 46" b. Tread width - 33" (with standard tires) c. Ground clearance at lowest point - 3" Tire size: 1. Front - 18.0 x 7 x 12 cushion tire 2. Rear - 14.0 x 5 x 10 cushion tire d. e. Steering radius - 72" Brakes: 1. Hydraulic service brakes 2. Mechanical parking brake f.
5. LIFT: a. Two stage lift mast b. Lift height minimum - 130" c. Lift capacity - 4000 lbs. d. Fork spacing - 7" to 32" minimum e. Tilt - 5 degrees forward/10 degrees backward
6. MISCELLANEOUS: a. FOPS protection b. Work lights c. Seat belts

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SPECIFICATION GROUP - LIFT: Scissor Lift - Self Propelled

Make: Genie Model: GS-1932

Make: JLG Model: JLG ES1932

FSA Item Specifications Description:

1. DIMENSIONS (APPROXIMATE) a. 64" x 29" Platform b. 36" Extension Deck c. 25` Working Height (raised) d. 18` Platform Height (raised) e. Lift Capacity 500 lbs.
2. POWER: a. 24 Volt b. 4-6 Volt Batteries c. On Board Charging System d. Dual Front Wheel Drive
3. BRAKES: a. 2 or 4 wheel brakes
4. PLATFORM: a. Fixed rails b. 36" Extension Deck c. AC Power to platform d. Lanyard attachment points
5. SAFETY: a. Manual platform lowering b. Emergency Stop on Platform and Ground control c. Descent alarm d. Hour meter e. Horn f. Pothole guards g. On board diagnostic system h. Tilt lever sensor with alarm i. Scissor maintenance prop

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SPECIFICATION GROUP - LIGHT TOWER: Light Tower - Trailer Mounted

Make: Signal Power Model: HT444PC

FSA Item Specifications Description:

1. DIMENSIONS (APPROXIMATE) a. Length 174" b. Width - Solar Panels Retracted 69" c. Height 72" d. Mast Deployed Height 30` e. Weight - 1850 pounds.
2. GENERATOR a. Perkins 403.F.11-10KW Tier 4 b. 2, 20A/120 v Receptacles c. Electric Start d. 12-30 Gallon Fuel Tank e. Auto Mode - Automatic Start for Low Battery f. Hybrid Systems Automatically Switches Between Solar Battery, Generator, or Standard Household Current
3. TRAILER a. Axle 2000 lbs. b. 13" Wheels c. Hitch 3 Position Adjustable Ball d. Stabilizers - 2 Extendable Outriggers; 1 Trailer Jack e. Top Mounted Fork Pockets and Single Lifting Eye f. Powder Coated DOT Rated Trailer with Lights g. Trailer Weight - 1850 pounds
4. MAST a. 30 ft. Extendable Mast in 3 Stages b. Wind Stability to 40 mph c. Rotates 90 Degrees
5. LIGHTS a. 4 Quick Connect 320 Watt each LED Lights b. Dimmer Control c. Instant On/Off d. 365 Day Programmable Timer for Lights, On/Off e. Lens Patter Spread of 150 Degrees f. Meets DOT Anti-Glare Regulations
6. SOLAR PANELS a. 5 - 100 Watt Panels b. Operating Temperature - 40c to 46c
7. BATTERIES a. 4 Deep Cycle Batteries b. Optional Lithium Cells c. 12 Volt, 220 AMP Hours

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SPECIFICATION GROUP - LIGHT TOWER: Light Tower - Trailer Mounted

Make: Atlas Copco Model: Hilight V4

Make: Doosan Model: LCV6WKUB-60hz-TY

Make: Generac Model: MLT4060

Make: Wacker Neuson Model: LTV6K

Make: Wanco Model: Standard diesel light tower

FSA Item Specifications Description:

1. DIMENSIONS (APPROXIMATE): Length 170"; Width 51"; Height 74"; Mast Deployed Height 30'; Weight - 1610 pounds.
2. ENGINE: 3-Cylinder Diesel Engine; 12 HP at 1800 RPM; Engine Protection Shutdown System.
3. GENERATOR: Wattage output 7000-Watt max, 6000-Watt continuous; Brushless type; 120/240 Volts at 60 Hz +/- 6% regulated. d. AMPS at 120/240V 50/25; Insulation class H. FUEL TANK: 30 Gallon Capacity; Run Time (approx.) 64 hours.
4. TRAILER: Axle 1800 lbs.; 13" tire size; Hitch 2" ball; Leaf Spring Suspension; Tongue Jack; 4 outrigger jacks.
5. CONTROL PANEL: Individual breakers for lights; Hour meter; Cabinet Lights; External receptacles: 1-30 AMP 120/240 Volt, twist lock, 1 GFC1, 15 AMP 120 Volt. MAST: 32ft. extendable mast; 4 each metal halide light heads; 440,000 lumens; 360-degree mast rotation; Fold down for transport; Winch for mast extension.

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SPECIFICATION GROUP - LOADER - Skid Steer - 3100 LB Operating Capacity, Tracked Only

Make: Bobcat Model: T740

Make: Caterpillar Model: 279D3

Make: John Deere Model: 331G

Make: Kubota Model: SVL 75-2

Make: Takeuchi Model: TL12V2

FSA Item Specifications Description:

1. ENGINE: Minimum 3-cylinder 74 HP Diesel; Spin on type filters; Dry type air filters.
2. TRANSMISSION: Hydrostatic drive; Forward, reverse, travel speed controlled by two hand levers.
3. OPERATOR ENVIRONMENT: OSHA approved ROPS canopy shall be integral; Front and rear work lights, hazard lights; Engine monitoring system or gauges, with audible alarm; Horn and backup alarm.
4. BRAKES: Parking brake; Hydrostatic braking.
5. BUCKET: Minimum 66" construction bucket; Bolt on, replaceable cutting edge for bucket; Operating capacity 3,100 lbs. minimum.

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SPECIFICATION GROUP - LOADER: 2,800 LB OC Skid Steer Loader - Wheel Only

Make: Bobcat Model: S770

Make: Caterpillar Model: 272D3

Make: John Deere Model: 330G

FSA Item Specifications Description:

1. ENGINE: a. Minimum 3 cylinder 83 HP Diesel
2. TRANSMISSION: a. Hydrostatic drive b. Forward, reverse, travel speed controlled by two hand levers
3. ENGINE EQUIPMENT: a. Spin on type filters b. Dry type air filters
4. OPERATOR ENVIRONMENT: a. OSHA approved ROPS canopy shall be integral b. Front and rear work lights, hazard lights c. Engine monitoring system or gauges, with audible alarm d. Horn and backup alarm e. Tires 14x17.5 extra wall
5. BRAKES: a. Parking brake b. Hydrostatic braking 6. LOADER: a. Front auxiliary hydraulics b. Foot or hand controls for bucket c. Minimum 84" wide construction bucket.

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SPECIFICATION GROUP - LOADER: Loader Backhoe with Canopy 4x4 Standard

Make: Caterpillar Model: 416

Make: John Deere Model: 310SL

FSA Item Specifications Description:

1. ENGINE: a. Minimum 87 HP Diesel engine b. Dry type, radial seal air cleaner and pre-cleaner unit c. Spin on type engine oil filter
2. TRANSMISSION: a. Four speed power shift or power shuttle transmission
3. OPERATOR ENVIRONMENT: a. OSHA approved ROPS canopy shall be integral b. Two front and two rear work and driving lights c. Stop and turn signals with flashing hazard lamps d. Instrument panel with a complete set of gauges or an electronic monitoring device e. Standard horn and audible back-up alarm
4. BRAKES: a. Brakes shall be oil immersed, hydraulically actuated, multiple disc on final drive input shaft b. Brakes shall be completely enclosed and sealed, fully self-adjusting
5. LOADER (SINGLE TILT CYLINDER): a. Loader shall be equipped with a return to dig mechanism b. Loader shall have positive down pressure sufficient to lift the tractor front end off level ground c. Loader bucket SAE heaped capacity of minimum 1.3 yards with replaceable bolt on edge
6. BACKHOE: a. Fixed length dipper stick digging depth approximately 14` b. Reach from swing center, approximately 18` c. Dump height, approximately 11`3" d. Digging force approximately 8,000 lbs. e. Bucket dig force, approximately 11,990 lbs. f. 24" general purpose bucket with replaceable teeth.

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SPECIFICATION GROUP - LOADER: Skid Steer Loader 1,850 LB OC - Wheeled Only

Make: Bobcat Model: S62

Make: Caterpillar Model: 236D3

Make: John Deere Model: 318G

Make: Kubota Model: SSV65

FSA Item Specifications Description:

1. ENGINE: a. Minimum 3 cylinder 56 HP Diesel
2. TRANSMISSION: a. Hydrostatic Drive b. Forward, reverse, travel speed controlled by two hand levers
3. ENGINE EQUIPMENT: a. Spin on type filters b. Dry type air filter
4. OPERATOR ENVIRONMENT: a. OSHA approved ROPS canopy shall be integral b. Front and rear work lights, hazard lights c. Engine monitoring system or gauges, with audible alarm d. Tires 10x16.5 extra wall e. Horn and backup alarm
5. BRAKES: a. Parking brake b. Hydrostatic main braking
6. LOADER: a. Front auxiliary hydraulics b. Foot or hand controls for bucket c. Minimum 62" wide construction bucket d. Operating capacity 1,800 lbs – minimum

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SPECIFICATION GROUP - LOADER: Wheel Loader-1.5 CU YD

Make: Hitachi Model: ZW120

FSA Item Specifications Description:

1. ENGINE/CAB: Diesel engine, six-cylinder, liquid cooled, minimum 77 HP; ROPS cab with air conditioning and heat.
2. TRANSMISSION: Power shift transmission with torque converter or hydrostatic drive, minimum of four forward and three reverse speeds.
3. DRIVETRAIN: Four-wheel drive; 15.5 - 25 Bias ply tires mounted on multi piece rims.
4. LOADER: 1.5 cu. yd. general purpose bucket with bolt on cutting edge; Bucket position indicator; Automatic return to dig; Rear drawbar; Gauges and indicators: visual hydraulic oil level indicator, electronic monitor display of all fluid levels and temperatures; Deluxe suspension seat with foam padding and backrest; Articulated steering, clearance circle 34` .02"; Wheelbase of at least 7`; Minimum operating weight of 12,727 lbs.
5. ELECTRICAL: Manual battery disconnect switch; Driving lights, front and rear work lights, stop lights, warning lights and taillights.

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SPECIFICATION GROUP - LOADER: Wheel Loader-3.0 CU YD

Make: Hitachi Model: ZW180

Make: Hyundai Model: HL940

Make: John Deere Model: 524L

Make: Komatsu Model: WA270-8

FSA Item Specifications Description:

1. ENGINE/CAB: Diesel engine, six-cylinder, liquid cooled, minimum 140HP; ROPS cab with air conditioning and heat.
2. TRANSMISSION: Power shift transmission with torque converter or hydrostatic drive, minimum of four forward and three reverse speeds.
3. DRIVETRAIN: Four-wheel drive; 20.5 - 25 Radial tires mounted on multi piece rims.
4. LOADER: 3.0 cu. yd. general purpose bucket with bolt on cutting edge; Bucket position indicator; Automatic return to dig; Rear drawbar; Gauges and indicators: visual hydraulic oil level indicator, electronic monitor display of all fluid levels and temperatures; Deluxe suspension seat with foam padding and backrest; Articulated steering, 40 degrees minimum each direction; Wheelbase of at 9 feet, 4 inches minimum; Minimum operating weight of 26,000 lbs.
5. ELECTRICAL: Manual battery disconnect switch; Driving lights, front and rear work lights, stop lights, warning lights and taillights.

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SPECIFICATION GROUP - LOADER: Wheel Loader-5.75 CU YD

Make: Caterpillar Model: 972M

Make: Doosan Model: DL450-5

Make: Hitachi Model: ZW310

Make: Hyundai Model: HL975

Make: John Deere Model: 744L

Make: Komatsu Model: WA480-8

Make: Volvo Model: L150H

FSA Item Specifications Description:

1. ENGINE/CAB: Diesel engine, six-cylinder, liquid cooled, minimum 280 HP; ROPS Cab with air conditioning and heat.
2. TRANSMISSION: Power shift transmission with torque converter or hydrostatic drive, minimum of four forward and three reverse speeds.
3. DRIVETRAIN: Four-wheel drive; Manufacturer's standard axle; 26.5 -R25 radial tires mounted on multi piece rims.
4. LOADER: 5.75 cu. yd. general purpose bucket with bolt on cutting edge; Bucket position indicator; Automatic return to dig; Rear drawbar; Gauges and indicators: visual hydraulic oil level indicator, electronic monitor display of all fluid levels and temperatures; Deluxe suspension seat with foam padding and backrest; Articulated steering, 40 degrees minimum each direction; Wheelbase of 11'4" minimum; Minimum operating weight of 53,674 lbs.
5. ELECTRICAL: Manual battery disconnect switch; Driving lights, front and rear work lights, stop lights, warning lights and tail lights.

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SPECIFICATION GROUP - LOW SPEED VEHICLE: Low Speed Vehicle

Make: Columbia Model: Journeyman 196 LSV 2 2

Make: GEM Model: E2

FSA Item Specifications Description:

1. CLASSIFICATION: These vehicles are primarily used to transport people and limited cargo in the State of Florida on typical federal, state, county and city highways and roads that are posted for 35 mph or less and shall be designed to operate under typical environmental conditions. Vehicles must conform to Federal Motor Vehicle Safety Standards, State of Florida Vehicle Safety Laws, regulations, specifications, standards, and requirements in effect as of the date of manufacture.
2. ENGINE: 5.5HP 4 kw Electric Motor; 48 Volt Lead Acid Batteries (8 Batteries x 6v); 110V Eagle on Board Charger; 50 Miles per Charge; Max Forward Speed 25mph; Digital Speedometer and Dashboard.
3. DIMENSIONS (APPROXIMATE): Length: 96"; Height: 76"; Width: 48"; Wheel Base 66.9"; Ground Clearance 5" BODY: Plastic body and fiberglass roof; DOT Windshield with Wiper.
4. COMFORT ITEMS: 4 Person Seating with Flip Rear Seat for Cargo.
5. CHASSIS/STEERING/SUSPENSION: 10 Foot Turning Radius; Steel Frame Type Chassis; 500lbs GVW Capacity.
6. TIRES AND WHEELS: 205/50-10 Tires; 10" Aluminum Rims.
7. BRAKES: 4 Wheel Hydraulic; Hand Brake.
8. SAFETY ITEMS: 100% Electric with Zero Emissions; 12V Headlights and Indicators; Voltmeter; Turn Signals; Side and Rear-View Mirrors; Reverse Alarm; Non-Slip Flooring; Neutral Switch When Vehicle is Standing Still; Horn

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SPECIFICATION GROUP - MATERIAL HANDLER: Rubber Tire Material Handler

Make: Caterpillar Model: MH3022

Make: Sennebogen Model: 818E

Make: Volvo Model: EW240E MH

FSA Item Specifications Description:

1. ENGINE: Tier IV Final Diesel Engine - 132 hp; Spin on Filters; Two Stage Air Cleaner.
2. WEIGHT: Minimum Operating Weight - 48,000 lbs. TRAVEL SYSTEM: 2-speed - 0-3.0 mph/0-12.0 mph. HYDRAULIC SYSTEM: Main Hydraulic System flow 80 GPM.
3. UNDERCARRIAGE: Two axles with all-wheel drive; 8 - 10:00 X 20 Solid Tires.
4. OPERATING STATION: Cab to be climate controlled with pressurized filtration; Hydraulic elevating cab; Sliding door window and tilt out front window; Tinted windows with safety glass; Adjustable suspension seat with safety belt and seat heater; Catwalk with handrail; Fire extinguisher; Rear view and right view camera system; Halogen work lights on roof cap.
5. WORKING EQUIPMENT: Purpose built material handling boom and stick; Safety check valves on boom and stick cylinders.

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SPECIFICATION GROUP - MOTORGRADER: Motorgrader

Make: Caterpillar Model: 120

Make: Komatsu Model: GD655-7

Make: John Deere Model: 620G

FSA Item Specifications Description:

1. ENGINE: Liquid cooled 6-cylinder diesel with minimum of 140 net hp @ 1900 RPM.
2. TRANSMISSION: Power shift with direct drive; Minimum 8 forward and 4 reverse speeds.
BRAKES: Wet multiple disc.
3. STEERING & ARTICULATION: Front steer plus articulated; Minimum articulation 20-degrees.
MOLDBOARD: Minimum 12 ft. long.
4. OPERATOR ENVIRONMENT: Low profile cab; Cloth adjustable seats; Gauges including hour meter, fuel, articulation, engine coolant temperature. TIRES: Minimum 13.0 - 24 10 PR 9" single piece rim.

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SPECIFICATION GROUP - MOTORGRADER: Motorgrader - Small

Make: LeeBoy Model: 685D

Make: Noram Model: Grader

FSA Item Specifications Description:

1. DIMENSIONS (APPROXIMATE): Length 21'; Width 7'; Height with cab 10`4"; Weight 15,200 lbs.
ENGINE: Diesel, turbocharged 110 HP; 39 gallon fuel tank.
2. DRIVE TRAIN: Hydrostatic drive or power shift; 2 speed gear box.
3. BRAKES: Fail safe brake system.
4. STEERING/ARTICULATION: 18-degree articulation left or right; Front wheel lean.
5. MOLDBOARD/BLADE: 10` Sliding/Tilting moldboard; 10` Blade; Circle side shift; Scarifier - center mount, front mount or rear mount acceptable; Adjustable turn table; Blade float control.
6. OPERATORS STATION: Enclosed cab; Front and rear windshield wipers; Suspension seat; Air conditioned and heated cab; Gauge package; Work lights.

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SPECIFICATION GROUP - MOWER: 15 FT. Flex Wing Rotary Mower

Make: Alamo Industrial Model: Eagle

Make: Bush Hog Model: 3815

Make: John Deere Model: M15

Make: Landpride Model: Batwing

Make: Schulte Model: FX-1800

Make: Woods Model: BW15.50

FSA Item Specifications Description:

1. DECK: Mower shall be rotary, flex wing style; 10-gauge steel minimum; Replaceable full-length skid shoes; Shall be easy clean style.
2. BLADE CARRIER & BLADES: 7-gauge steel minimum; 1-inch thick cross bar weldment; "Stump Jumper" pan design; 2 free swinging updraft cutting blades 1/2-inch-thick, heat treated alloy steel minimum; Blades shall overlap a minimum of six inches for uniform cut; Blade spindles shall be 1 1/4-inch diameter minimum.
3. WHEELS/TIRES: 6 replaceable puncture resistant foam filled airplane tailwheels.
4. POWER DISTRIBUTION: Main driveline shall be CAT 5; Slip clutch protection shall be featured; Gears shall be straight bevel with tapered roller bearings; A power divider shall have a rating of 190 HP minimum; Center and wing gearboxes shall have a minimum rating of 190 HP.
5. GENERAL FEATURES: Mower shall attach to the rear of the tractor using a self-level-lift hitch; Front and rear chain deflectors; Tongue shall have a jack stand.

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SPECIFICATION GROUP - Mower: Remote Controlled Brush Mower

Make: Alamo Industrial Model: RC28

Make: Energreen America Model: Robomax

Make: Evergreen America Model: Robogreen

Make: RC Mowers Model: TK-52XP

FSA Item Specifications Description:

1. APPROXIMATE DIMENSIONS a. Length- 57" b. Width- 59" c. Height- 33" d. Weight- 990 lbs
2. ENGINE a. 24 hp. 2 cylinder gas b. Pressurized oiling system c. Electric start w/ 16v , 16 a alternator d. 5 gal fuel capacity
3. TRACK DRIVE SYSTEM a. Two 48v electric motors b. Infinitely variable gear reduction transmissions c. Multi lug type tracks d. Neoprene rollers
4. MOWER DECK a. Twin spindle deck b. 10 gage mower deck c. Blade bar 2x22" with 4 free swinging blades d. Electric clutch assembly w/ integral safety brake e. Mowing height range 2 to 7 "
5. REMOTE CONTROL Remote control to control mower functions: travel speed, cutting height, hours, radio signal strength. state of charge of remote control battery, and mower on/off a. b. Remote control working range 328 ft. , max range 984 ft. c. Auto stop feature for loss of radio signal d. Rechargeable lithium ion batteries
6. SAFETY a. One touch emergency shut off switch b. Warning beacon FLORIDA SHERIF

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SPECIFICATION GROUP - MOWER: Zero Turn Radius Commercial Grade Mower

Make: Bush Hog Model: HDE2561KP4

Make: Cub Cadet Model: Pro Z

Make: Exmark Model: Exmark Lazer

Make: Ferris Model: ISX2200

Make: Grasshopper Model: 225

Make: Gravely Model: Proturn

Make: Husqvarna Model: Z560

Make: John Deere Model: Z930M

Make: Kubota Model: Z725KH-3-60

Make: Scag Model: Tiger Cat II

FSA Item Specifications Description:

1. ENGINE: 25 horsepower gas engine; Positive feed oil system with spin on filter; Electric start.
DRIVE
2. TRAIN/AXLES: Spin on hydraulic filters. DECK: 60" heavy duty mower deck; 3 blade spindles;
Manual deck lift; 1" to 5" cutting height; Deck engagement electric clutch.
3. WHEELS: Front wheels - 13x6-6 ribbed, minimum; Rear wheels - 24x11.5-12 turf. COMFORT &
4. CONVENIENCE: High back full suspension seat; ROPS bar. APPROXIMATE MACHINE
DIMENSIONS: Length - 82"; Height - 72" with ROPS; Width - 63" without chute.

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SPECIFICATION GROUP - OFF ROAD VEHICLE: Off Road All Terrain Vehicles-4x4

Make: CanAm Model: Outlander

Make: Honda Model: Four Trax Foreman 520

Make: Polaris Model: Sportsman 570 EFI

Make: Suzuki Model: KingQuad 400 ASI

Make: Yamaha Model: Kodiak 450

Make: Bobcat Model: UV34

Make: CanAm Model: Defender

Make: Clubcar Model: Carryall

Make: Cub Cadet Model: Challenger

Make: Honda Model: Pioneer 700

Make: John Deere Model: Gator

Make: Kawasaki Model: Mule 4x4

Make: Kubota Model: Diesel

Make: Mahindra Model: Retriever UTV 750B

Make: Polaris Model: Ranger 570 EFI

Make: Yamaha Model: Viking

FSA Item Specifications Description:

1. ENGINE: Manufacturer's gas or diesel engine, air cooled, overhead valve, keyed electronic ignition, 20 HP minimum.
2. TRANSMISSION: Manufacturer's standard automatic transmission.
3. CHASSIS: Standard front bumper.
4. TIRES AND WHEELS: Front and rear all terrain tires, must match drive train.

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SPECIFICATION GROUP - POWER CHARGING AND RESERVE POWER STATIONS

Make: Envision Solar International, Inc. Model: EV ARC™ 2020

FSA Item Specifications Description:

1. A transportable yet permanent 4.3 kW Solar Array; 24 kWh (upgradable) lithium-ion battery ;
2. One (1) up to (6) J1772 coupler(s) with 4.3kW maximum output;
3. Patented EnvisionTrak™ sun tracking system generates up to 25% more solar power; 7.5` X 18` engineered ballast and traction Pad fits in a standard parking space; Solar array aligns with parallel, perpendicular and herringbone parking spaces; LED lighting;
4. Wind-rated up to 120mph or greater in a lowered or `stowed` position;
5. Flood-proof up to 9.5`; Branding space for your logo, advertising or community beautification; 1-Year Wireless Remote Monitoring and Management System (RMMS);
6. Patented Transformer ARC™ design folds into a low-profile for container or flatbed transport.

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SPECIFICATION GROUP - POWER CHARGING AND RESERVE POWER STATIONS

Make: Envision Solar International, Inc. Model: DCFC50

FSA Item Specifications Description:

1. Four (4) interconnected EV ARC™ 2020 stations; 17.2kW combined solar array; 172 kWh combined lithium-ion battery storage; One (1) 50kW DCFC SAE/CCS combo coupler with a 50kW maximum output mounted on a detached steel high-traction base pad.
2. Includes patented EnvisionTrak™ sun tracking system generates up to 25% more solar power; 7.5` X 18` engineered Ballast and traction pad fits in a standard parking space;
3. Solar array aligns with parallel, perpendicular and herringbone parking spaces;
4. LED lighting;
5. Wind-rated up to 120mph; Flood-proof up to 9.5`;
6. Branding space for your logo, advertising or community beautification; Low to no maintenance required. 1-Year Wireless Remote Monitoring and Management System (RMMS).

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SPECIFICATION GROUP - POWER CHARGING AND RESERVE POWER STATIONS

Make: Envision Solar International, Inc. Model: DCFC24

FSA Item Specifications Description:

1. Two (2) interconnected EV ARC™ 2020 stations; 8.6kW combined solar array; 86 kWh combined lithium-ion battery storage;
2. One (1) 24kW DCFC SAE/CCS combo coupler with a 24kW maximum output mounted on an EV ARC™ 2020 station. Includes patented EnvisionTrak™ sun tracking system generates up to 25% more solar power; 7.5' X 18' engineered Ballast and Traction Pad fits in a standard parking space;
3. Solar array aligns with parallel, perpendicular and herringbone parking spaces;
4. LED lighting;
5. Wind-rated up to 120mph;
6. Flood-proof up to 9.5';
7. Branding space for your logo, advertising or community beautification;
8. Low to no maintenance required. 1-Year Wireless Remote Monitoring and Management System (RMMS).

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SPECIFICATION GROUP - PUMP: 6 Inch Mobile Pump Package

Make: Atlas Copco Model: PAS 150 HF

Make: BBA Pumps Model: BA150E

Make: ECO PUMP

Model: Trailer Mounted Trash Pump

Make: Generac Model: MTP6DZV

Make: Global Pump Model: 6GSTAP

Make: Godwin Model: CD 150S

Make: Holland Pumps Model: PT6TPC-P1104D44T

Make: MWI Model: CT006

Make: Pioneer Model: PP66S12L71

Make: Thompson Pump Model: 6JSC

Make: Tradewinds Model: TPK064750

FSA Item Specifications Description:

1. DESIGN REQUIREMENTS: Discharge size: 6 inches; Suction size: 6 inches; Capable of 1750 GPM minimum; Capable of 160 ft. Total Dynamic Head (TDH) minimum; Duty Point, Maximum: 1,000 gallons per minute minimum (GPM) at 120 ft. Total Dynamic Head (TDH); Solids handling capability size, minimum size: 3 inches.
2. ENGINE: Diesel engine, appropriate to pump size at continuous duty; Emission compliant engine; Industrial grade exhaust muffler and rain cap; Oil and coolant drain lines with ball valves; Low water level shutdown switch; 12vdc system with battery rack and cables; 50 gallon minimum fuel tank with low fuel level alarm and shutdown.
3. PUMP: Check valve; Self-priming system.
4. CONTROLS: Solid state, microprocessor-based pump controls; Controls shall provide all operating, monitoring and control functions for the pump set; Controller will also provide 2 fully programmable contacts for input and output signals accordingly; Controller will provide remote start stop control with adjustable ramp (speed) time control; UL 508 R and CSA C22.2 No. 14 approved.

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SPECIFICATION GROUP - PUMP: 6 Inch Mobile Pump Package (Continued from previous page)

5. TRAILER: The manufacturer shall mount the diesel engine and pump unit with the above 50 gallon subbase tank on a street legal D.O.T. approved trailer; This trailer will be able to be rated for a safe travel at speeds of 60 mph and not be limited to the following specifications: Trailer design shall be such that the County/City may easily remove the entire engine, fuel tank and pump from the trailer; 12vdc electric system; Lunette or military type towing ring with safety chains; Single point lifting bar; License plate bracket; Sand shoe type support stands front and rear; Torque spring axles to meet load of trailer; The trailer must have a VIN and a certificate of origin.
6. STARTUP AND COMMISSIONING: Vendor must coordinate all startup and testing activities with the engineer/owner; After field delivery of the pump and trailer, an authorized factory representative shall perform the initial startup and field testing of the pump and trailer; If conditions permit, a site will be determined where connection will be made by the County/City to test the pump package; If a site cannot be prepared a standard operational test will be performed; At the same time the startup test is performed, the factory representative will provide all necessary operation, field maintenance and minor repair training as necessary; This will also include safety procedures and hazard assessment.

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SPECIFICATION GROUP - Refuse and Waste Collection Bodies & Trailer Mounted

Equipment

Make: Old Dominion Brush Model: LCT450 Trailer Mounted

Make: Hyva Model: Combination Grapple Crane and 40 Cubic Yard (CYD) Dump Body HZR250 L0 1113 Canal Cleaning Unit

Make: Hyva Model: Combination Grapple Crane and 40 Cubic Yard (CYD) Dump Body HZR100 L0 1085 BULK WASTE UNIT

Make: Hyva Model: Combination Grapple Crane and 40 Cubic Yard (CYD) Dump Body HZR140 L0 REFUSE LOADER

Make: New Way Model: 20 Cubic Yard (CYD) Rear Loading Refuse Body

Make: New Way Model: 32 Cubic Yard (CYD) Rear Loading Refuse Body

Make: New Way Model: 40 Cubic Yard (CYD) Front Loading Refuse Body

Make: New Way Model: 31 Cubic Yard (CYD) Automated Side Loading (ASL) Refuse Body

Make: New Way Model: 27 Cubic Yard (CYD) Automated Side Loading (ASL) Refuse Body (Auger Style)

Make: New Way Model: 10 Cubic Yard (CYD) Satellite Side Loader Refuse Body

Make: New Way Model: 8 Cubic Yard (CYD) Rear Loading Refuse Body

Make: New Way Model: 11 Cubic Yard (CYD) Rear Loading Refuse Body

Make: New Way Model: 25 Cubic Yard (CYD) Rear Loading Refuse Body

Make: Palfinger Eplison Model: Combination Grapple Crane and 40 Cubic Yard (CYD) Dump Body S260L130 Canal Cleaning Unit

Make: Palfinger Eplison

Model: Combination Grapple Crane and 40 Cubic Yard (CYD) Dump Body Model: M13A Refuse Loader

Make: Palfinger Eplison Model: Combination Grapple Crane and 40 Cubic Yard (CYD) Dump Body M100L73 Bulk Waste Unit

FSA Item Specifications Description:

1. NOTE: REFUSE BODIES REQUIRE SEPARATE PURCHASE OF CAB AND CHASSIS.
2. Trailer mounted units must be sized and consistent with manufacturer GVWR ratings and other specifications for the mounted refuse equipment and payload.
3. Must include all of the OEM standard equipment and be equipped with all LED lighting, and must meet all DOT and FMVSS safety standards. The completed unit must be delivered to the purchaser in a ready to work condition. This equipment is used collect Municipal Solid Waste (MSW) , Commercial Solid Waste (CSW), and Recycling and Vegetation.

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SPECIFICATION GROUP - ROADWAY ADVISORY BOARD: Mobile Message Board

Make: AMSIG Model: CMS-GP465T

Make: K&K Systems Model: MB9757

Make: Kustom Signal Model: Smart VMS

Make: Ver-Mac Model: PCMS-1500

Make: Wanco Model: Full Size 3-Line Message Board Trailer

Make: Wanco Model: Full Size Full Matrix Message Board Trailer

FSA Item Specifications Description:

1. DISPLAY PANEL: Minimum Panel Size 72" X 48".
2. EXPECTED POWER: Solar and Battery with battery charger- Meets manufacturer requirements.
3. TRAILER: 2" minimum Ball Coupler; Meets manufacturer and highway safety requirements.

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SPECIFICATION GROUP - ROADWAY ADVISORY BOARD: Mobile Speed Board

Make: Applied Concepts Inc. DBA Stalker Radar Model: Stalker SAM

Make: Applied Concepts Inc. DBA Stalker Radar Model: Stalker SAM - R

Make: K&K Systems Model: LTER12-P-DC599S

Make: Kustom Signal Model: Smart

Make: RU2 Systems Model: FAST-650

Make: AMSIG Model: Digibrite Advantage

Make: Ver-Mac Model: SP-710V

Make: Wanco Model: Compact Radar Speed Trailer

FSA Item Specifications Description:

1. DISPLAY PANEL: Amber or Red LED; 12" minimum Speed Limit Sign.
2. RADAR SPEED UNIT: Miles Per Hour; Directional Radar.
3. DATA COLLECTION: Data and Analysis Software included;
4. EXPECTED POWER: Solar and Battery with battery charger- Meets manufacturer requirements.
5. TRAILER: 2" minimum Ball Coupler; Meets manufacturer and highway safety requirements.

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SPECIFICATION GROUP - ROADWAY ADVISORY BOARD: Mobile Traffic Advisory / Directional Signal Board

Make: AMSIG Model: T815

Make: K&K Systems Model: AT154896

Make: Traffix Device Model: Scorpion II Trailer Attenuator with Mobile Traffic Advisory / Directional Signal Board

Make: Ver-Mac Model: ST-4825

Make: Wanco Model: WECO Arrow Board Trailer

Make: Wanco Model: Metro Matrix Message Board Trailer

FSA Item Specifications Description:

1. DISPLAY: 15 lamps minimum; 48" x 96" panel size.
2. EXPECTED POWER Solar and Battery with battery charger- Meets manufacturer requirements.
3. TRAILER: Meets manufacturer and highway safety requirements.
4. TRAILER: 2" minimum Ball Coupler; Meets manufacturer and highway safety requirements.

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SPECIFICATION GROUP - ROLLER Compaction Vibratory Roller 30,000 LB - Single Drum

Make: Bomag Model: BW177D-5

Make: Caterpillar Model: CS44

Make: Hyundai Model: HR70C-9

Make: Sakai Model: SV544

FSA Item Specifications Description:

1. WEIGHT: a. Minimum operating weight with open rops 15,200 lbs.
2. DRUM/VIBRATORY SYSTEM: a. Maximum compaction shall not be less than 30,000 lbs. b. Drum shall have a compaction width of not less than 66" c. Drum shall be smooth and not be less than 48" in diameter d. Vibratory system shall be hydraulically driven and have two amplitude settings e. Drum shall be equipped with an adjustable cleaning device f. Drum and vibratory pack shall be isolated from the machine during normal operation
3. ENGINE/CAB: a. Turbocharged diesel engine, minimum 74 HP Operator station shall be mounted to the frame with rubber mounts to further isolate the operation and controls from machine vibration during operation b. Gauges or warning indicators for fuel level, engine oil, hydraulic oil and coolant temperature with an alert sounding device activated whenever a warning indicator is illuminated. c. d. A backup alarm shall emit an audible alarm whenever the propel lever is moved into reverse
4. TRAVEL SYSTEM: a. A machine must be hydrostatic driven for the rear axle and the drum drive motor
5. ELECTRICAL SYSTEM: a. 12 or 24 volt electric system b. Maintenance free battery supplying 750 cold cranking amps c. Wiring harness protected with nylon-braided wrap

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SPECIFICATION GROUP - ROLLER: Small 5,400 LB Double Drum Roller - 47"

Make: Bomag Model: BW120SL-5

Make: Caterpillar Model: CB24B

Make: Hamm Model: HD12-VV

Make: Dynapac Model: CC1200

Make: Volvo Model: DD25

FSA Item Specifications Description:

1. WEIGHT: a. Minimum operating weight 5,423 lbs.
2. DRUM/VIBRATORY SYSTEM: a. Drum compactor width on both drums no less than 47" b. Drum shall be smooth and not less than 27.5" in diameter c. Vibratory system shall be hydraulically driven d. Drum shall be equipped with scrapers both front and rear of both drums e. Drum shall be hydraulically driven and have two amplitude settings
3. ENGINE: a. Diesel engine of not less than 25 HP b. Reverse alarm for reverse operations
4. TRAVEL SYSTEM: a. The machine shall be hydrostatically driven b. Steering shall be centered articulated and oscillated
5. MISCELLANEOUS: a. Unit shall be equipped with a pressurized water system for both drums b. Electrical system shall be 12 or 24 Volt

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SPECIFICATION GROUP - ROLLER: Large 22,000 LB Double Drum Roller - 70"

Make: Bomag Model: BW190AD-5

Make: Caterpillar Model: CB13

Make: Dynapac Model: CC5200

Make: Hamm Model: HD90-VV

Make: Sakai Model: SW884

Make: Volvo Model: DD120

FSA Item Specifications Description:

1. WEIGHT: a. Minimum operating weight 22,000 lbs
2. DRUM/VIBRATORY SYSTEM: a. Drum compaction width on both drums no less than 70" b. Drum shall be smooth and not less than 48" in diameter c. Vibratory system shall be hydraulically driven d. Drum shall be equipped with scrapers both front and rear of both drums e. Drum shall be hydraulically driven and have two (2) amplitude settings
3. ENGINE: a. Diesel engine of not less than 100 HP b. Reverse alarm for reverse operations
4. TRAVEL SYSTEM: a. The machine shall be hydrostatically driven b. Steering shall be center articulated and oscillated
5. MISCELLANEOUS: a. Unit shall be equipped with pressurized water for both drums b. Electrical system shall be 12 or 24 volt

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SPECIFICATION GROUP - RUBBER TIRE MATERIAL HANDLER:

Make: Caterpillar Model: MH3022

FSA Item Specifications Description:

1. ENGINE a. Tier IV Final Diesel Engine - 132 hp b. Spin on Filters c. Two Stage Air Cleaner
2. WEIGHT a. Minimum Operating Weight - 48,000 lbs
3. TRAVEL SYSTEM a. 2-speed - 0-3.0 mph/0-12.0 mph
4. HYDRAULIC SYSTEM a. Main Hydraulic System flow 80 GPM
5. UNDERCARRIAGE a. Two axles with all wheel drive b. 8 - 10:00X20 Solid Tires
6. OPERATING STATION a. Cab to be climate controlled with pressurized filtration b. Hydraulic elevating cab c. Sliding door window and tilt out front window d. Tinted windows with safety glass e. Adjustable suspension seat with safety belt and seat heater f. Catwalk with handrail g. Fire extinguisher h. Rear view and right view camera system i. Halogen work lights on roof cap
7. WORKING EQUIPMENT a. Purpose built material handling boom and stick b. Safety check valves on boom and stick cylinders

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SPECIFICATION GROUP - SEWER CLEANER: Trailer Mounted Sewer Cleaner

Make: Obrien Model: 7018-SC

Make: Sewer Equipment Co. of America Model: 747-FR2000

Make: Vac-Con Model: VecJet

Make: Vactor Model: RamJet

FSA Item Specifications Description:

1. ENGINE a. 60 h.p. diesel engine b. Water cooled c. Engine enclosure d. 15 gal. fuel tank
2. HIGH PRESSURE WATER PUMP a. 4000 psi at 18 gpm b. Pressure relief valve c. Triplex type pump d. Low water shutdown e. Multi-flow type system [pressure change without changes to engine rpm]
3. CONTROLS a. Located next to hose reel b. Ignition c. Throttle d. Gauge package [tachometer, hour meter, oil pressure, volts, and low oil / high temp shutdown] e. Water control valve
4. WATER TANK a. 700 gal capacity b. High density polyethylene with baffles c. Sight gauge d. 2 1/2" overhead tank fill , anti siphon , air gap type e. Strainer f. Tank drain
5. HOSE REEL a. 800 ` capacity of 1/2" high pressure sewer hose b. Hydraulic power in and out
6. HOSE REEL DRIVE HYDRAULIC SYSTEM a. Hydraulic pump 8 gpm b. 15 gal hydraulic reservoir c. Spin on type hydraulic filter
7. TRAILER a. 12000 lb gvwr b. 6" x 3/16" frame c. Tandem axle d. 2 5/16" hitch e. Tongue jack f. 235 / 80 r 16" tires g. Fenders h. Breakaway switch i. Lighting as required by Federal and State laws j. Reflective striping k. Toolbox with locking system l. LED directional arrowstick m. Warning beacon [tank mounted]
8. EQUIPMENT FURNISHED a. 500` of 1/2 " high pressure sewer hose b. 100` of 1/4" hose and nozzle for small pipe c. Washdown gun and 25 ` of hose with quick disconnects d. Tiger tail hose protector e. Nozzles to be furnished, 15 degree, 35 degree, chisel point, grenade flushing type, skid assembly, and rotator nozzle

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SPECIFICATION GROUP - SEWER CLEANER: Combination Sewer Cleaning/Vacuum Machine - 10 CU YD

Make: Aquatech Model: B-10

Make: Gapvax Model: MC

Make: Sewer Equipment Co. of America Model: 900 ECO-12YD

Make: Vacall Model: AJV1010

Make: Vac-Con Model: V311HN/1000

Make: Vac-Con Model: VPD4211SHAE

Make: Vactor Model: 2100I

FSA Item Specifications Description:

1. NOTE TO PURCHASERS: This is an INCOMPLETE UNIT. This is a bid award on a combination Sewer Cleaning/Vacuum Unit to be mounted on an appropriately sized cab & chassis truck. Agencies purchasing this unit will need to provide a cab & chassis truck of appropriate size, GVW, and, options necessary to have the selected combination Sewer Cleaner/Vacuumping Unit to be mounted on or have the truck provider assist in ordering the correctly outfitted truck. All items factory installed unless otherwise noted.
2. AIR/VACUUM SYSTEM: Positive displacement vacuum pump or centrifugal compressor; 3500 CFM @ 14.5 inches of mercury, minimum; Muffler; Vacuum relief valves; Centrifugal separator with clean out; PTO or hydrostatic drive.
3. DEBRIS TANK: 10 cu yd capacity; 45-degree hydraulic dump; Top hinged; Hydraulic door locks; Sight glass or indicator; Drain valve with hose; Check ball system or vacuum breaker.
4. BOOM ASSEMBLY: 270-degree boom working area; Hydraulic up/down; Clean out port; Transport cradle; 8" boom hose; Pendant control.
5. WATER PUMP: 2500 PSI, 80 GPM; Pressure relief valve; Wash down gun with relief valve.
6. WATER TANK: 1000 gallon capacity; Curb side fill; Level indicators.
7. HOSE REEL: 800` of 1" hose capacity; 400` of 1", 2500 PSI hose supplied; Power in/out; Reel speed control system; Position lock system; Engine and hose reel controls; Level wind.
8. DRIVE SYSTEM: Hydrostatic transfer case, split PTO, or auxiliary engine or transfer case.

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- MISCELLANEOUS: Nozzles 15 degree and 30 degree for jet; Wash down gun; 8" intake tube 20' minimum; Flexible hose guide; Hose storage rack.

SPECIFICATION GROUP - SHREDDER: Mobile Shredder - Trailer Mounted

Make: Metso Model: M&J 4000M

Make: Tana Shark Model: 440D

FSA Item Specifications Description:

- APPROXIMATE DIMENSIONS a. Weight: 27,000 kg b. Length: 15 740mm c. Width: 2 520mm d. Material feeding height : 3 395mm e. Belt discharge height: 4 030mm
- ENGINE a. Diesel, 540 hp @ 2100 rpm b. Turbocharged w/ intercooler c. 750 li fuel tank
- POWERTRAIN a. Hydro-static drive w/ auto speed control b. Variable displacement drive motors c. Axial piston pumps, variable displacement
- ROTOR a. Rotor diameter 920mm b. Rotor 30 max rpm c. Rotor shredding length 3000 mm d. Rotor knives 33, reversible type e. Counter knives 23 f. Adjustable rotor screen
- CONTROLS a. Gauge package, w engine protection shutdown b. Shredder control unit to protect from overloading, overheating and damage of the powertrain
- CONVEYOR a. Hydraulic driven conveyor b. Raised and lowered by hydraulics
- TRAILER a. Trailer to be constructed and sized for the installed unit, and will meet all local, state, and federal laws for use on highway. b. Hydraulic support legs

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SPECIFICATION GROUP - STUMP CUTTER: Self Propelled

Make: Bandit Model: SG-40

Make: Toro Model: STX 38

Make: Vermeer Model: SC362

FSA Item Specifications Description:

1. ENGINE: a. 35 H.P. gasoline engine b. 6 gallon fuel tank c. Positive feed oil system with spin on filter d. heavy duty air filter e. 12 volt starting/charging system
2. GROUND DRIVE: a. Hydraulic Ground Drive b. 2 speed travel c. Hydraulic brake system d. Hydraulic steering system e. Hydraulic system spin on filter f. 4 gallon hydraulic reservoir
3. CUTTER DRIVE: a. Electric drive clutch b. Adjustable V belt drive
4. CUTTER WHEEL: a. 17" diameter b. 16 dual cutting edge teeth c. Teeth pocket mounted d. Cutter wheel guard
5. CONTROLS: a. Hour meter b. Low-oil shutdown c. Boom swing left and right d. Boom up and down e. Travel forward and reverse f. Steering g. Operator presence shutdown
6. APPROXIMATE DIMENSIONS: a. Weight - 1320lbs b. Length - 110" c. Width - 49" d. Height - 53"
7. CUTTING DIMENSIONS: a. Above ground - 24" b. Below ground - 15"

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SPECIFICATION GROUP - SWEEPER: 3-Wheel Mechanical or Regenerative Air

Sweeper

Make: Elgin Pelican Model: NP

Make: Global Model: R3

Make: Global Model: M3

FSA Item Specifications Description:

1. ENGINE: a. 4 cylinder diesel engine 74 HP minimum. b. 120 AMP alternator c. Fuel water separator d. 30 gallon fuel tank capacity
2. TRANSMISSION: a. Hydrostatic drive type b. 35 gallon reservoir c. Capable of 20 MPH minimum
3. CAB: a. Sealed type cab with filtered intake. b. Tilt and telescoping steering column c. Tinted glass d. Sound suppressed e. Intermittent windshield wipers with washer f. Full gauge and warning lights for engine monitoring g. Climate controlled cab, heater, defroster and air conditioned h. If cab is not center mounted, it must have dual controls for operating on either right or left hand side.
4. FRAME: a. 116" wheelbase b. Rail type channel frame
5. SAFETY ITEMS: a. Dual west coast mirrors with spot mirrors b. Headlights, turn, brake and hazard lights c. Worklights for gutter brooms d. Cab mounted warning strobe light with protective cage e. Backup alarm f. Rearview backup camera
6. BRAKES/STEERING: a. Hydraulic power assisted service brakes b. Parking brake c. Turning radius 15` maximum
7. DEBRIS HOPPER: a. 3.5 yard capacity minimum b. 9`6" minimum dump height
8. CONVEYOR: a. Rubber belt type with flights b. Hydraulic drive
9. MAIN BROOM: a. 32" diameter minimum b. 56" width tube type c. Hydraulic drive
10. GUTTER BROOMS: a. Right & left side brooms to have adjustable down pressure located in cab. b. 36" diameter minimum c. Segmented type broom d. Hydraulic drive
11. WATER SPRAY SYSTEM: a. 220 gallon water tank b. Run dry type water pump c. 15` hydrant fill hose d. Water spray jets adjacent to all brooms e. Water filter
12. PICK UP HEAD The following requirements are for the regenerative air system type sweeper. All other requirements are the same for either machine 1. a. 72" outside dimension b. 12" pressure hose c. 12" suction hose d. Spring type suspension
13. BLOWER The following requirements are for the regenerative air system type sweeper. All other requirements are the same for either machine 1. a. Direct hydraulic drive b. Cast aluminum with abrasion resistant coating c. Blower housing rubber lined.

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SPECIFICATION GROUP - SWEEPER: Cabover Mechanical Broom Street Sweeper

Make: Elgin Model: Eagle

Make: Johnston Model: ES351

FSA Item Specifications Description:

1. CAB & CHASSIS: Engine: 1. 6 cylinder diesel 200 HP minimum a. Transmission: 1. Automatic transmission to meet the correct engine size and GVW of vehicle. Hydrostatic drive is acceptable. b. Engine Equipment: 1. Alternator - 12V / 130 AMP 2. Fuel water separator 3. Fuel tank - 50 gallon c. Cab: 1. Dual operating position type cab to include: Steering, controls, etc for sweeping from either side. 2. Rubber floor mats 3. Air ride seating 4. Pressurized cab with heat and air conditioning 5. Instrumentation for truck - oil pressure, water temperatures, voltmeter gauges 6. Instrumentation for sweeper-tachometer, hour meter, oil pressure, coolant temperature gauges d. Frame: 1. Rail type 80,000 psi 2. Size - 10.9" x 3.5" x .34" 3. Frame overhang 4. Wheelbase 130" minimum 5. Front steel bumper e. Safety: 1. Dual West Coast bright finish heated mirrors with LH & RH remote 2. Intermittent windshield wipers 3. Daytime running lights 4. Backup alarm 5. Auto shutdown f. Axles: 1. Front axle: 11,900 lb. GVW 2. Rear axle: 21,000 lb. GVW 3. Single speed rear axle 4. 22.5 x 8.25 steel wheels - disc type 5. 11R x 22.5 14-ply radial tires g. Brakes: 1. Antilock brakes 2. Front air brakes - 15 x 4 drum 3. Rear air brakes 16.5 x 7 drum 4. Automatic slack adjusters - front and rear 5. Air dryer - frame mounted h.
2. MOUNTED SWEEPER BODY (STANDARD EQUIPMENT): Engine: 1. 4 cylinder diesel - 47 horsepower, governed at 2800 RPM 2. Spin-on oil filter 3. Alternator - 12V / 60AMP a. Side Brooms: 1. Right & left side gutter brooms (tilt control in cab) 2. Hydraulically raised & lowered 3. 42" diameter - segment type 4. Adjustable down pressure (Manual) - optional down pressure pump b. Main Broom: 1. Length - 58" minimum 2. Diameter - 35" minimum 3. Hydraulic motor - direct or chain drive and reversible 4. Full floating trailing arms w/shocks 5. Lift Control - inside cab c. Sweeper Body: 1. Overall height - 10' with strobe 2. Lift capacity - 11,000 lbs minimum 3.

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4.5 cubic yard hopper 4. Dump height - 10` minimum 5. Lift design - hydraulic 2-stage scissors 6. Hopper inspection door 7. Work lights - 1 on each gutter broom and one in rear d. Hydraulic

SPECIFICATION GROUP - SWEEPER: Cabover Mechanical Broom Street Sweeper (Continued from previous page)

FSA Item Specifications Description:

System: 1. Hydraulic pump capacity minimum - 24gpm@2600rpm 2. Pump: dual tandem gear 3. Reservoir - 21 gallons 4. Spin-on 10 micron hydraulic pump 5. Externally mounted reservoir level indicator e. Water Spray System: 1. Water tank construction - polyethylene and removable 2. Water tank capacity - 280 gallons minimum 3. Fill hose 2 1/2" x 16` with NST coupler 4. Diaphragm pump type with run dry capability 5. Pump capacity - 3.0 GPM minimum 6. Minimum of 9 spray nozzles - 2 min per gutter broom, 3 min for main broom 7. Water filter - 80 micron mesh cleanable f. Conveyor/Elevator System: 1. Minimum of 9 flights - replaceable 2. Belt material - rubber reinforced fabric 3. Belt speed - variable with auxiliary engine RPM 4. Drive - reversible with direct drive 5. Elevator jam warning light & buzzer in cab 6. Conveyor flush - built in.

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SPECIFICATION GROUP - SWEEPER: Compact Air Sweeper - 2.3 CU YD

Make: Johnston Model: 5006

FSA Item Specifications Description:

1. OPERATING WEIGHT: a. 8800 LBS. GVWR b. Empty weight-5900 LBS
2. ENGINE/TRANSMISSION: a. 78 hp b. Hydrostatic drive
3. BRAKES/TIRES a. Drum type brakes [power assist] b. Front tire size 6.50 R10 Radial c. Rear tire size 225/75 R10 Radial
4. SWEEPER DIMENSIONS: a. Height: 72" b. Width: 52" c. Length: 162" 5. HOPPER: a. 2.3 cubic yard capacity
5. GUTTER BROOMS: a. Equipped with left and right side gutter brooms b. Front mounted 33.5" diameter c. Overall sweeping width 122"
6. WATER SYSTEM a. 66 gal recirculation water system capacity b. 40 gal clean water system capacity
7. LIGHTING / SAFETY a. Lighting package to enable vehicle to operate on the road b. Work lights for operation of vehicle at night c. Amber warning beacon d. Intermittent wipers
8. COMFORT ITEMS: a. Cab to be air conditioned and heated b. Suspension type operator seat
9. INSTRUMENTATION: a. Full instrumentation to monitor operation of vehicle
10. FAN UNIT: a. Centrifugal type fan b. Wear resistant blades

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SPECIFICATION GROUP - SWEEPER: Regenerative Air Street Sweeper

Make: Elgin Model: Crosswind J Plus

Make: Johnston Model: RT655

Make: Tymco Model: 600

FSA Item Specifications Description:

1. CAB & CHASSIS: Engine: 6-cylinder diesel, 200 HP minimum. Transmission: Allison 2000 series, 5-speed automatic. Engine Equipment: Alternator: 12-volt 100 amp; Fuel water separator. Cab: Cab over, with rust preventative coating; Dual operating position type cab to include: steering, controls, etc., for sweeping from either side; Rubber floor mats; Air ride suspension seats, both sides; Pressurized cab with heat and air conditioning; Instrumentation for truck - oil pressure, water temperature, voltmeter gauges; Instrumentation for sweeper - tachometer, hour meter, oil pressure, coolant temperature gauges. Frame: Wheelbase - 152" minimum; Front steel bumper; Fuel tank - 50 gallon. Safety: West coast mirrors with lower mounted convex mirrors; Intermittent windshield wipers; Daytime running lights; Backup alarm; Auto shutdown system for sweeper power plant. Axles: Front axle: 11,900 lb. GVW; Rear axle: 21,000 lb. GVW; Single-speed rear axle; 22.5 x 8.25 steel wheels - disc type. Brakes: Air dryer.
2. MOUNTED SWEEPER BODY: Engine: 4-cylinder turbocharged diesel 99 HP minimum. Blower: Direct belt drive; Blower rating - 20,000 cfm; Blower housing Pickup Head: 90" OD; Hose size - 14" pressure, 12" suction; Hydraulically raised and lowered. Side Brooms: Right and left side gutter brooms; Hydraulically raised and lowered; 42" diameter - segment type; Adjustable downward pressure. Sweeper Body: 7 yd. volume metric capacity; 50-degree dump angle or raker bar; Centrifugal dust separator; Hopper dump door to hydraulically open/close, lock and unlock; Hopper screen - hinged, quick release. Hydraulic System: Direct drive hydraulic pump. Water Spray Dust Control System: Water tank construction - polyethylene; 220 gallon capacity; Fill hose - 16' long; Diaphragm pump type with run dry capability; Pump capacity - 5 GPM Pump pressure - 25 PSI; 7 spray nozzles, 4" pickup head, 1" suction tube - 2 on each side of broom; Filter - 80 mesh cleanable.

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SPECIFICATION GROUP - SWEEPER: Self-Propelled Hydrostatic Broom - Center Slung

Make: Broce Model: 350 Broom

Make: Holder Model: S100

Make: LeeBoy Model: CB-95

Make: Superior Broom Model: DT74

FSA Item Specifications Description:

1. WEIGHT: Minimum operating weight 5,500 lbs.
2. ENGINE: Diesel engine 74 HP at 2200 RPM; Pre-cleaner 54 clone or equivalent; 27-gallon fuel tank.
3. TRAVEL SYSTEM: 2 speed hydrostatic drive; High speed travel, 20 MPH; 225/75R15 tire size; Joystick direction controls, or foot pedal; Front or rear wheel steering.
4. CAB: Roll over and falling object protective structures; Enclosed cab with air conditioner, heater and defroster fan; Front windshield wiper; Gauges or warning indicators for fuel level, engine oil, hydraulic oil and coolant; Right and left side doors; Right and left side mirrors; Shall have safety lighting package and night operating lighting package.
5. BROOM: Minimum 7'6" poly or poly-steel brush; Brush shall have quick charge core system; Minimum 150 gallon brush watering attachment; Shall have variable brush down-pressure control; Brush shall be hydraulically driven.

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SPECIFICATION GROUP - TACTICAL VEHICLE: The Rook, Tactical Vehicle

Make: Caterpillar Model: 299D3 with Rook Option

FSA Item Specifications Description:

1. VEHICLE PLATFORM: a. CAT Multi-terrain loader b. 84 HP Diesel Engine c. 2 Speed powertrain d. Operating weight 13,000 lbs. e. Fuel Tank 26 gallons f. Hydraulic Quick Coupler g. Enclosed ROPS cab with air conditioner and heater h. Dual level suspension undercarriage with self level. i. Advanced machine information and control system
2. CAB ARMORED PROTECTION a. Bullet proof glass b. NIJ Level IV armor cab reinforcement fabrication
3. ARMORED DEPLOYMENT PLATFORM a. Integrated video system b. Breaching ram c. Vehicle extraction tool d. Grapple claw

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SPECIFICATION GROUP - TOOL CARRIER: Large Tool Carrier with Optional Mower

Make: Alamo Industrial Model: Mantis

Make: Mowermax Model: Tool Carrier

Make: Multihog Model: Range

FSA Item Specifications Description:

1. ENGINE: 90 HP Turbo Diesel; Heavy duty radiator with high flow fan with reversing, clean out valve; Canister style air cleaner with pre-cleaner; Electric start with engine pre-heat; Full engine gauge package; 30-gallon fuel tank.
2. POWER TRAIN: Hydrostatic, variable displacement piston transmission pump; Two, heavy-duty, 4-wheel drive, steerable axles with parking and service brake; 3 steering modes - 4-wheel round, front wheel and 4-wheel crab; GVW (without attachments): Approximately 9000 lbs.
3. TRAVEL SPEED: Work Mode - Variable 0-5 MPH Travel Mode - Variable 0-20 MPH. COMFORT,
4. CONVENIENCE & SAFETY: Full air ride, suspension seat; Certified ROPS Canopy with AC, Heat, AM/FM radio with Bluetooth; Tilt steering column with horn; Seat belt with safety switch; Turn Signals and brake lights; Flashing safety lights as well as DOT reflector tape.
5. ATTACHMENT OPTIONS: Front lift arms with universal skid steer mounting plate for 10 skid steer attachments: Broom/sweeper; 90-inch rotary mower; 88 in flail mower; Dozier blade; Stump grinder; Pallet forks; Cold planer; Big roll sod installer; Landscape rake; Rotary tiller. Right side rotary mower; Right side flail mower; Right side boom/reach mower; 15 ft belly mower;
6. CONDITIONS: In addition to equipment specified, mower will be equipped with all standard equipment as specified by the manufacturer for this model and shall comply with all EPA emission standards and all motor vehicle standards as established by the US Department of Transportation regarding the manufacturer of motor vehicles.

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SPECIFICATION GROUP - TOOL CARRIER: Telescopic Tool Carrier

Make: Bobcat Model: Versa Handler Telehandler

Make: Caterpillar Model: TH357D

Make: Energreen America Model: Kommunal

Make: Manitou Model: MTA 8044

Make: JLG Model: 943

FSA Item Specifications Description:

1. APPROXIMATE DIMENSIONS: Length: 196 in; Width: 90 in; Height, w/cab: 93 in; Wheelbase: 113 in; Weight: 17,155 lbs.
2. ENGINE: Diesel, Tier 4 100hp; Turbocharged; Heavy duty cooling system.
3. POWERTRAIN: Hydrostatic Drive; 2 Travel speeds low speed 3.0 mph, high speed 18 mph; All wheel drive; 3 Steering modes: all wheel, crab, and front wheel; Industrial lug type tires.
4. COMFORT, CONVENIENCE AND SAFETY: Certified ROPS cab with air conditioning and heat; Suspension seat w/ seat belt; Work lights, safety lights, and warning beacon; Attachment controls in cab; Engine gauge instrumentation.
5. HYDRAULIC SYSTEM: Lift capacity 7700 lbs.; Max lift 22 feet; Boom breakout force: 8000 lbs.

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SPECIFICATION GROUP - TRACTOR MOWER: Agriculture Tractor with Boom Mower - 4x4

Make: Case IH Model: Maxxum with Motrim Boom Mower

Make: John Deere Model: 6120M with Tiger Bengal Boom Mower

FSA Item Specifications Description:

1. ENGINE: Liquid cooled diesel with minimum of 95 PTO hp @ 2200 rpm.
2. TRANSMISSION: Synchroshuttle type with a minimum of 16 forward and 16 reverse speeds; 4WD front axle.
3. FUEL TANK: Minimum 38-gallon capacity.
4. BRAKES: Oil cooled hydraulic.
5. POWER TAKE OFF: Speeds RPM - 540/1000.
6. HYDRAULIC SYSTEM: Closed center system with standard remotes; Maximum pressure psi - 2,900; Standard output @ remote 17 GPM; Total of 29 GPM combined flow.
7. POINT HITCH: Category II; Telescopic stabilizers; SAE lift capacity @ 24" standard lbs. - 5,000; Lower draft arm link ends - extendable.
8. TIRES: Not less than 13.6R24 R1 rear radials; Not less than 18.4R30 6-Ply F2.
9. MOUNTED BOOM MOWER: Minimum 23' boom reach; Forward and reverse swing break away; Integral frame; Separate hydraulic circuit for mower head; 5' rotary cutter head; Disc or bar type blade holder.

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SPECIFICATION GROUP - TRACTOR: Agricultural Tractor With Boom Mower 4x4

Make: John Deere Model: 6120M Alamo Industrial Mower

Make: Kubota Model: M6S-111 with Terrain King KB2300 Boom Mower

Make: Massey Ferguson Model: MF5712S with Diamond Boom Mower

FSA Item Specifications Description:

1. ENGINE: Liquid cooled diesel with minimum of 95 PTO hp @ 2200 rpm.
2. TRANSMISSION: Synchroshuttle type with a minimum of 16 forward and 16 reverse speeds; 4WD front axle.
3. FUEL TANK: Minimum 38-gallon capacity.
4. BRAKES: Oil cooled hydraulic.
5. POWER TAKE OFF: Speeds RPM - 540/1000.
6. HYDRAULIC SYSTEM: Closed center system with standard remotes; Maximum pressure psi - 2,900; Standard output @ remote 17 GPM; Total of 29 GPM combined flow.
7. POINT HITCH: Category II; Telescopic stabilizers; SAE lift capacity @ 24" standard lbs. - 5,000; Lower draft arm link ends - extendable.
8. TIRES: Not less than 13.6R24 R1 rear radials; Not less than 18.4R30 6-Ply F2.
9. MOUNTED BOOM MOWER: Minimum 23' boom reach; Forward and reverse swing break away; Integral frame; Separate hydraulic circuit for mower head; 5' rotary cutter head; Disc or bar type blade holder.

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SPECIFICATION GROUP - TRACTOR: Agriculture Tractor - 4x2

Make: Case IH Model: FARMALL

Make: John Deere Model: 5100M

Make: Kubota Model: M5-091

Make: Mahindra Model: mForce

Make: Massey Ferguson Model: Tractor

Make: New Holland Model: Powerstar

FSA Item Specifications Description:

1. ENGINE: Liquid cooled diesel with minimum of 75 PTO hp @ 2200 rpm.
2. TRANSMISSION: Synchroshuttle type with a minimum of 8 forward and 3 reverse speeds.
3. FUEL TANK: Minimum 23-gallon capacity.
4. BRAKES: Oil cooled hydraulic.
5. POWER TAKE OFF: Speeds RPM - 540/1000
6. HYDRAULIC SYSTEM: Open center system with standard remotes; Standard output @ remote GPM - 10; Main pump flow 17 GPM. 3-
7. POINT HITCH: Electronic or mechanical 3-point hitch control; Category II; Telescopic stabilizers; SAE lift capacity @ 24" standard lbs. - 3,600; Lower draft arm link ends - extendable.
8. TIRES: Not less than 18.4R - 28 R1 radials; Not less than 7.5L - 15, 6-Ply F2.

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SPECIFICATION GROUP - TRACTOR: Compact Center Articulating Tractor - AWD

Make: Antonio Carraro Model: Tigre

Make: Avant Model: 528

Make: Ventrac Model: 4500 Series

FSA Item Specifications Description:

1. Incomplete equipment. Unit bid is for the prime mover only, without attachments. Buyer should select attachments needed from the option list to complete the machine. Examples of attachments available are: Bucket; grapple and/or forks. This will affect the final price.
2. ENGINE: 4500K - Briggs & Stratton 31hp Vanguard M54.
3. TRANSMISSION: Manufacturer`s standard hydrostatic.
4. PERFORMANCE ITEMS: SDLA controls for complete one-handed control of Speed, Direction, Lift & Auxiliary functions; Weight Transfer - transfers weight to front axle for added stability (optional 4500K).
5. SAFETY ITEMS: Automatic PTO shut-off- when weight is removed from seat; Standard seatbelt; Standard ROPS system; Neutral Assist.
6. TIRES AND WHEELS: Manufacturer`s standard tires and wheels (optional turf or bar tires).
7. ATTACHMENT AND ACCESSORIES: 30 commercial grade attachments for a variety of applications (sold individually, not factory installed); Uses Ventrac quick hitch system for quick transition between applications.

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SPECIFICATION GROUP - TRACTOR: Small Agriculture Tractor - 4x4

Make: Bobcat Model: CT2035

Make: Case IH Model: FARMALL 35C

Make: John Deere Model: 3035D

Make: Kubota Model: L3901 DT

Make: Mahindra Model: 1640

Make: Massey Ferguson Model: MF1740E

Make: New Holland Model: Boomer

FSA Item Specifications Description:

1. ENGINE: Liquid cooled diesel with minimum of 29 PTO hp @ 2200 rpm.
2. TRANSMISSION: Hydrostatic drive or mechanical type transmission; 4WD front axle.
3. FUEL TANK: Minimum 7-gallon capacity.
4. BRAKES: Oil cooled hydraulic wet disc.
5. POWER TAKE OFF: Speeds RPM - 540.
6. HYDRAULIC SYSTEM: Open center system with standard remotes; Maximum main pump flow - 6.3 GPM 3-POINT HITCH: Category I; SAE lift capacity @ 24" standard lbs. - 1,435. TIRES: Not less than 11.2 x 24 rear; Not less than 5-15 6-ply front.

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SPECIFICATION GROUP - TRAILER: Deck Over Flatbed Trailer - 16,000 LB GVWR 8`6" X 25`

Make: Big Tex Model: 22PH255

Make: Eager Beaver Model: B8-DOW

Make: Econoline Model: BP0821DE

Make: Felling Trailers Model: FT-16-2

Make: Globe Trailers Model: GTTU152-30-25

Make: Interstate Model: 16BST

Make: SURE-TRAC Model: ST102204SDDO-B-150

Make: Texas Trailer Model: TX85258T

Make: Towmaster Model: TC-16

Make: Trail King Model: TK20LP

Make: XL Specialized Trailers Model: XL 24 T

FSA Item Specifications Description:

1. DIMENSIONS: Deck width - 8`6"; Overall deck length - 25`; Dovetail length - 5`; GVWR - 16,000 lb.
2. FRAME: 5" channel side rails; 3" channel cross members on 16" centers; 4" channel undercarriage; 2" x 3/8" rub rail with stake pockets; Pintle hitch.
3. DECK: 2 x 8 pressure treated deck; Galvanized deck screws; 5` dovetail; Spring assist stand up ramps.
4. AXLES: Tandem 8,000 lb. Dexter oil bath axles (2); Electric brakes; Breakaway brake system with well cell battery.
5. LIGHTING SYSTEM: Protected turn/stop/tail lights; Wiring run in conduit; Heavy duty trailer plug.
6. MISCELLANEOUS: Spare tire and rack; Lockable tool box; Primed and painted - choice of color; Tongue jack rated for GVWR of trailer.

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SPECIFICATION GROUP - TRAILER: Enclosed Cargo Trailer - 7,000 Lb GVWR, 7` X16`

Make: Cargo Mate Model: Blazer

Make: SURE-TRAC Model: STW8416TA

Make: United Model: U-716TA35-8.5

Make: Wells Cargo Model: HD Wagon

FSA Item Specifications Description:

1. DIMENSIONS: Width - 7`; Length - 16`; GVWR - 7,000 lb.
2. FRAME: Formed angle top and bottom sills; All exposed steel primed and painted; Positive lock ball coupler; Tongue jack; Safety chains - DOT rated.
3. FLOOR/WALLS/ROOF: 3/4" exterior grade plywood floor; 1/4" plywood interior liner; .030" prefinished aluminum exterior, state colors; Smooth galvanized steel or one-piece aluminum roof; Fiberglass front cap; Extruded aluminum bottom trim; Extruded aluminum roof cove with drip rail; Double locking door on rear.
4. AXLES: Tandem 3,500 lb. torflex axles; 15" wheels; 205 x 15 trailer rated tires; Electric brakes with breakaway switch.
5. LIGHTING SYSTEM: Protected turn/stop/tail lights; Clearance lights; Wiring run in conduit; Heavy duty trailer plug.
6. MISCELLANEOUS: Spare wheel and tire.

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SPECIFICATION GROUP - TRAILER: Hydraulic Tail Trailer - 70,000 LB

Make: Felling Trailers Model: FT-70-2-PL-HT

Make: Globe Trailers Model: GTFH352-48-26

Make: Pitts Model: HD35

Make: Trail King Model: TK80HT

Make: Towmaster Model: T-70HT

Make: XL Specialized Trailers Model: XL 80PT

FSA Item Specifications Description:

1. DIMENSIONS: Deck width - 8`6"; Overall length - 48`; Deck length - 25`; Hydraulic tail - 12` (8` with 4` fold under); GVWR - 70,000 LBS. FRAME: Cambered "I" beam main frame; 49" Kingpin height; 16" Kingpin setting; 82" Swing clearance; 8` Upper deck length.
2. DECK: 1½" Apitone or oak decking; 1½" Floor plate over wheels; Traction plate on hydraulic tail.
3. HYDRAULIC TAIL: 8` Main tail; 4`-Fold under tail; Hydraulic actuated with tail lock; 14-degree load angle.
4. LANDING GEAR: Pin drop type or 2 speed type.
5. AXLES/SUSPENSION/TIRES: 2 - 22,500 LB axles; Oil seal hubs; 6.5 x 17.5 steel wheels; 235/75R x 17.5 radial tires; Air brakes with automatic slack adjusters; ABS brake system; Air ride suspension with auto and manual controls.
6. LIGHTING: LED lighting; Wiring in conduit; Mid turn signals; Lighting as per DOT regulations.
7. MISCELLANEOUS EQUIPMENT: 12,000 LB hydraulic winch mounted on upper deck over kingpin. Wireless control; Toolbox on upper deck; Hydraulic tail controls both sides; Air ride controls with dump valve.

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SPECIFICATION GROUP - TRAILER: Pull Behind Dump Trailer - 14,000 LB GVWR

Make: SURE-TRAC Model: ST8214HLOD-B-140

Make: Towmaster Model: T-12HD

Make: Big Tex Model: 14LP-14

Make: Felling Model: FT-14 DT HD

FSA Item Specifications Description:

1. GVWR: 14,000 lbs.
2. BED: Grease fittings on all hinges; D-ring tie downs.
3. BED SIZE & FRAME: 6`8" wide; 14` length; 24" deck height; Tube steel box; 10GA bed floor; Rear stabilizers; 12,000 lb. tongue jack; 20" high sides and tailgate, minimum.
4. BED LIFT: Scissor type hydraulic lift; 12-volt power unit with battery; 15` pendant control. AXLES: Dexter easy lube or equivalent; Sized for GVWR of trailer; 4-wheel electric brakes with breakaway.
5. MISCELLANEOUS: Conspicuity type on sides; Tail/stop/turn lights; 7-way trailer plug; Tarp system; Spare tire; Pintle type hitch or ball (customer selected).

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SPECIFICATION GROUP - TRAILER: Waste Trailer with Walking Floor - 48`

Make: Warren Equipment Inc. Model: WMFT-AS

Make: East Manufacturing Model: Unloader Live Floor

Make: Mac Trailer Model: TNSP48MF

Make: Steco Model: AW048102

FSA Item Specifications Description:

1. DIMENSIONS Length - 48` aluminum Width - 102" Side height - 100".
2. FLOOR: Keith or Hallico running floor; Extreme duty slats with center rib.
3. CROSSMEMBERS: 14" spacing.
4. CROSSTUBES: Center and rear crosstubes; Bolt in style.
5. LIGHTS: LED lights; Mid turn lights. TARP: Manual roll type - side to side; Mesh type tarp.
6. TAILGATE: Side swing - left or right;
7. CAM locking system with safety chain; Extreme duty hinges.
8. LANDING GEAR: Holland Mark V. AXLES: TP axles or equivalent; Same inner and outer bearings; Outboard mount hubs.
9. SUSPENSION: Cast hangers; Leaf springs.
10. TIRES AND WHEELS: Steel Disc 22.5x8.25; 11R22.5 radial tires.
11. MISCELLANEOUS: Tow hooks on rear; Air deflector in front.

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SPECIFICATION GROUP - TRANSFER SWITCH: 600 Amp Automatic Transfer Switch

Make: ABB-Zenith Model: ZTG600

Make: ASCO Model: Series 300

Make: Caterpillar Model: CTG Series

Make: Generac Model: GTS/PSTS600

Make: Thomson

Model: Auto Transfer Switch

FSA Item Specifications Description:

1. AUTOMATIC TRANSFER SWITCH: Maximum voltage rating of 600Vac, 60hz; 1ph or 3ph; Open transition (break-before-make) transfer logic; Transfer switch must meet the related industry standards: UL 1008 - Automatic transfer switches for use in emergency systems; CSA - Automatic transfer switches; NEMA - Industrial control and systems AC transfer switch equipment; IEC - Automatic transfer switching equipment.
2. RATING: 600-amp, 3 pole, 277/480vac, 60hz; Enclosure type: NEMA 3r.
3. FUNCTIONAL: The automatic transfer switch shall automatically transfer the load to the generator supply in the event of a utility supply failure and return the load to the utility supply upon restoration. The automatic transfer switch power switching devices shall be mechanically and electrically interlocked to prevent the utility and generator supplies from being interconnected. All timers should be field adjustable to ensure proper field site compatibility.
4. AUTOMATIC SEQUENCE OF OPERATION: When the voltage on any phase of the utility supply is below present levels of rated voltage for a preset time delay, a contact shall close to initiate start of the standby generator. The load shall transfer to the generator supply when the generator voltage and frequency have reached acceptable present levels and the warm up time delay has expired. When the utility supply is restored to the above present levels of rated voltage on all phases, load transfer from generator to utility supply shall be initiated following expiry of the utility return timer. Once the transfer mechanism operates and opens the

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SPECIFICATION GROUP - TRANSFER SWITCH: 600 Amp Automatic Transfer Switch (Continued from previous page)

generator power switching device, the transfer mechanism shall stop in the neutral position (i.e. with the both power switching devices open) for the duration of the neutral delay timer setting to allow load voltage to decay prior to reconnecting the utility supply. The load shall be re-connected to the utility supply once the neutral delay timer expires and the transfer mechanism continues operation and closes the utility power switching device. The load shall immediately retransfer to the utility supply (if within acceptable limits) should the generator supply fail prior to the expiry of the utility transfer delay. The generator set shall continue to operate following a load transfer for a cool down delay period, and then a contact shall open to stop the generator set. An "on load" test mode may be initiated which shall cause a simulated utility failure condition and transfer the load to the generator set. The transfer sequence shall be the same as for a utility power failure except a neutral delay sequence shall occur when transferring from utility to a generator source. The load shall immediately retransfer to the utility supply (if within acceptable limits) should the generator supply fail during an "on load" test mode.

5. FACTORY TESTING: A certified factory test report shall be shipped with each switch at time of shipment; The automatic transfer switch shall be factory tested prior to delivery to the purchaser; The following test shall be conducted by qualified factory personnel: Visual Inspection; Mechanical Tests; Electrical Tests; Final Inspection.
6. FIELD TESTING AND COMMISSIONING: The automatic transfer switch shall be field tested once installed at the project site to confirm proper operation of the system; Schedule and witness testing activities shall be coordinated with the project engineer, site contractor, and owner as required in advance of the testing date; A qualified local factory-trained field representative shall conduct the necessary test to ensure proper operation of the switch. Visual Inspection: Electrical and Mechanical inspection to verify the installation is correct as recommended by the transfer switch manufacturer and as per National Electric Code (NEC) requirements. Mechanical Tests: As a minimum, the following mechanical tests shall be performed on the transfer switch: Power conductor torque verification; Verification of mechanical interlock; Manual ATS

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SPECIFICATION GROUP - TRANSFER SWITCH: 600 Amp Automatic Transfer Switch (Continued from previous page)

Mechanism Operation; All Mechanical Fasteners/Wire Connections Tight; Confirmations of correct transfer switch voltage, current and withstand ratings as is required for the application.

7. Meggar testing the power cabling to the transfer switch; Verification of correct power cabling phasing and phase rotation prior to energization; Confirmation of settings for all timers & voltages sensors. Full Function Test-normal operation - 3 complete cycles of failing the utility supply, and transfer load to/from the generator set; Verification of all test modes operates correctly.
8. CONDITIONS: In addition to equipment specified, each automatic transfer switch shall be equipped with all necessary equipment as specified by the manufacturer for this model and shall include but not be limited to the following necessary items: Shrink Wrap applied to the product to ensure a clean finish; One complete set of operation and maintenance manuals; A two (2) year or 1500 hour from date of standard standby warranty will apply from date of successful startup; Labor, materials, and travel for the warranty period repair will be paid by manufacturer during normal business hours.

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SPECIFICATION GROUP - TRENCHER: Walk Behind Trencher

Make: Vermeer Model: RTX250

FSA Item Specifications Description:

1. ENGINE: a. 25 H.P. gasoline engine b. 7 gallon fuel tank c. Positive feed oil system with spin on filter d. 12 volt starting/charging system
2. GROUND DRIVE: a. Hydrostatic b. Rubber ground tracks c. 7" track width d. 31" track length on ground
3. TRENCHER DRIVE: a. Hydraulic drive b. 8 gallon hydraulic reservoir c. Hydraulic system spin on filter
4. TRENCHER BOOM: a. Digging depth - 48" b. Auger diameter - 18" c. Cutting width minimum - 4"
5. CONTROLS: a. Operator presence safety system b. Low-oil shutdown system c. Steering control d. Operator presence safety system e. Low-oil shutdown system f. Steering control g. Trencher controls h. Travel control i. Boom controls
6. APPROXIMATE DIMENSIONS: a. Weight - 1550 LBS. b. Length - 79" c. Width - 34" d. Height - 48"

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SPECIFICATION GROUP - UTILITY VEHICLE: Electric Utility Vehicle

Make: Club Car Model: Caryall 700

Make: Columbia Model: Utilitruck

Make: Polaris Model: Ranger EV

FSA Item Specifications Description:

1. FSA BASE VEHICLE REQUIREMENTS a. 2 - programmed keys and fobs, if available b. Full-size spare tire, if available
2. DIMENSIONS (APPROXIMATE) a. Length: 115" b. Height: 51" c. Width: 56" d. Wheel Base 79" e. Curb Weight 1500 lbs. f. GVW 2900 lbs.
3. POWER: a. 7 HP Electric Motor b. 8-6 Volt Heavy Duty Batteries c. 48 Volt
4. TRANSMISSION/AXLE: a. Enclosed internally lubricated differential/transaxle b. 2 Wheel Drive
5. CHASSIS/STEERING/SUSPENSION a. 1250 lbs. towing capacity b. 2900 lbs. GVW c. Frame Type Chassis d. Suspension matched for GVW of vehicle
6. TIRES AND WHEELS: a. Off/on road type tires b. Wheels rated for GVW of vehicle c. Tires to be traction type rated for GVW of vehicle
7. PERFORMANCE: a. 45 mile range b. 19 MPH minimum
8. BRAKES: a. Manual parking brake b. Disc or drum type c. 2 or 4 wheel breaks
9. BODY: a. Rear mounted hitch for towing 2" b. Pick-up type box with sides and tailgate c. 2 passenger seating

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SPECIFICATION GROUP - VEHICLE LIFT - Stationary - 2 Post Symmetric Stationary Vehicle Lift 12k

Make: Challenger Model: CL 12-LC

FSA Item Specifications Description:

1. Make: Challenger Model: CL 12-LC
2. Lifting Capacity 12,000 lbs. Lifting Configuration Symmetric Arms 3-stage front/3-stage rear;
3. Rise Height (includes 6" tall adapter) 80.25" ;
4. Overall Height 11'-11" (143") ; Overall Width 142" ; Drive-Thru Clearance 103.5" ; Floor to Overhead Switch 136" ; Arm Reach (Min.) 27.5" ; Arm Reach (Max.) 59" ; Screw Pad Height * 5" / 12.625" (includes 6" tall adapter) ; Inside Columns 114.5" ; Motor / Voltage 2HP, 208v-230v, 60Hz, 1Ph ; Speed of Rise (approximate) 60 s ; Ceiling Height Required 12' ; Colors Available Red, Blue, Black

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 2 Column, Cabled

Make: ARI-Hetra Model: LP-10-2-AJ

Make: Rotary Lift Model: MCHF219

Make: Stertil Koni Model: ST1085-1

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: Combined lift capacity of 36,000 lbs.; 18,000 lbs. per column minimum.
2. DIMENSION: Width - 45 Inch Minimum; Length - 48 Inch Minimum; Minimum Rise - 67 Inches.
3. OPERATION: Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds; Fits tire sizes 9" – 24". SAFETY: Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards.
4. POWER: Cabled base. VOLTAGE 208-230 3-phase. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 2 Column, Wireless

Make: ARI-Hetra Model: BPW-10-2-AJ

Make: Challenger Model: CLHM-190 - 2

Make: Rotary Lift Model: MCHF-219

Make: Stertil Koni Model: ST1085-1FRA

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: Combined lift capacity of 36,000 lbs.; 18,000 lbs. per column minimum.
2. DIMENSION: Width - 45 Inch Minimum; Length - 48 Inch Minimum; Minimum Rise - 67 Inches.
3. OPERATION: Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds; Fits tire sizes 9" – 24".
4. SAFETY: Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards; Training included with purchase.
5. POWER: Wireless. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 4 Column, Cabled

Make: ARI-Hetra Model: LP-10-4-AJ

Make: Rotary Lift Model: MCH418

Make: Stertil Koni Model: ST1085-2FSA

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: Combined lift capacity of 72,000 lbs.; 18,000 lbs. per column minimum.
2. DIMENSION: Width - 45 Inch Minimum; Length - 48 Inch Minimum; Minimum Rise - 67 Inches.
3. OPERATION: Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds; Fits tire sizes 9" – 24".
4. SAFETY: Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards.
5. POWER: Cabled base. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 4 Column, Wireless

Make: ARI-Hetra Model: BPW-10-4-AJ

Make: Stertil Koni Model: ST1085-2FRA

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: Combined lift capacity of 72,000 lbs;. 18,000 lbs. per column minimum.
2. DIMENSION: Width - 45 Inch Minimum; Length - 48 Inch Minimum; Minimum Rise - 67 Inches.
3. OPERATION: Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds; Fits tire sizes 9â€ - 24â€.
4. SAFETY: Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards; Training included with purchase.
5. POWER: Wireless. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 6 Column, Cabled

Make: ARI-Hetra Model: LP-10-6-AJ

Make: Rotary Lift Model: MCH618

Make: Stertil Koni Model: ST1085-3FSA

FSA Item Specifications Description:

1. **MINIMUM LIFT CAPACITY:** Combined lift capacity of 108,000 lbs.; 18,000 lbs. per column minimum.
2. **DIMENSION:** Width - 45 Inch Minimum; Length - 48 Inch Minimum; Rise minimum - 67 Inches; Fits tire sizes 9" – 24".
3. **OPERATION:** Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds.
4. **SAFETY:** Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards.
5. **POWER:** Cabled base. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 6 Column, Wireless

Make: ARI-Hetra Model: BPW-10-6-AJ

Make: Rotary Lift Model: MCHF619

Make: Stertil Koni Model: ST1085-3FRA

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: Combined lift capacity of 108,000 lbs.; 18,000 lbs. per column minimum.
2. DIMENSION: Width - 45 Inch Minimum; Length - 48 Inch Minimum; Rise minimum - 67 Inches; Fits tire sizes 9" – 24".
3. OPERATION: Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds.
4. SAFETY: Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards: Training included with purchase.
5. POWER: Wireless. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 8 Column, Cabled

Make: Stertil Koni Model: ST1085-4FSA

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: Combined lift capacity of 144,000 lbs.; 18,000 lbs. per column minimum.
2. DIMENSION: Width - 45 Inch Minimum; Length - 48 Inch Minimum; Rise minimum - 67 Inches; Fits tire sizes 9" – 24".
3. OPERATION: Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds.
4. SAFETY: Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards.
5. POWER: Cabled base. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Mobile - 8 Column, Wireless

Make: ARI-Hetra Model: BPW-10-8-AJ

Make: Rotary Lift Model: MCHF819

Make: Stertil Koni Model: ST1085-4FRA

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: Combined lift capacity of 144,000 lbs.; 18,000 lbs. per column minimum.
2. DIMENSION: Width - 45 Inch Minimum; Length - 48 Inch Minimum; Rise minimum - 67 Inches; Fits tire sizes 9" – 24".
3. OPERATION: Weight gage for each column; Operating LCD Screen; Speed: fully lowered to raised not to exceed 80 seconds.
4. SAFETY: Mechanical Safety Locks; Override to manual operation in the event of power loss; *Meets all applicable safety standards; Training included with purchase.
5. POWER: Wireless. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

FLORIDA SHERIFFS ASSOCIATION & FLORIDA ASSOCIATION OF COUNTIES

FSA20-EQU18.0 HEAVY EQUIPMENT CONTRACT

THE FOLLOWING ITEMS WILL BE FACTORY INSTALLED ON THE BASE VEHICLE/EQUIPMENT TO MEET THE MODEL NUMBER AND BUILD CODES OF THE VEHICLE LISTED. PLEASE REFER TO THE EMERGENCY VEHICLE LIGHTING AND SIRENS SECTION WITHIN THIS CONTRACT FOR DESCRIPTIONS, SPECIFICATIONS AND AWARDED VENDOR PRICING.

SPECIFICATION GROUP - VEHICLE LIFT: Stationary - 2 Post Asymmetric Stationary Vehicle Lift 10k

Make: Rotary Lift Model: SPOA10

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: 10,000 lbs.;
2. DIMENSION: Minimum Width – 125”, Minimum Width Between Posts – 110”, Minimum Extended Cylinder Height - 142.5”, Minimum Full Rise Height – 72”, Minimum Ceiling Height required - 12’;
3. OPERATION: Speed of rise - fully lowered to fully raised in 50 seconds; SAFETY: Manual or Automatic Lock Release, *Meets all applicable safety standards,
4. MOTOR: 2.0 HP 208-230 V Minimum;
5. ACCESSORIES: Power Upgrades Options, Air/Electric workstation w/Filter/Lubricator/Regulator, Tire Tool, Manager Workstation w/Filter/Lubricator/Regulator, Column Height Extensions, Door protection. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Stationary - 2 Post Asymmetric Stationary Vehicle Lift 12k

Make: Rotary Lift Model: SPO12-TA

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: 12,000 lbs;
2. DIMENSION: Minimum Width - 139 Inches, Minimum Width Between Posts - 114-7/8 Inches, Minimum Extended Cylinder Height - 160 Inches, Minimum Full Rise Height – 72”, Maximum Ceiling Height required - 16`;
3. OPERATION: speed of rise - fully lowered to fully raised in 90 seconds;
4. SAFETY: Manual or Automatic Lock Release, *Meets all applicable safety standards;
5. MOTOR: 2.0 HP 208-230 V Minimum,
6. ACCESSORIES: Power Upgrades Options, Air/Electric workstation, w/Filter/Lubricator/Regulator, Tire Tool Manager Workstation w/Filter/Lubricator/Regulator, Column Height Extensions, Door protection. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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FSA20-EQU18.0 HEAVY EQUIPMENT CONTRACT

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SPECIFICATION GROUP - VEHICLE LIFT: Stationary - 2 Post Asymmetric Stationary Vehicle Lift 15k

Make: Challenger Model: 15000-3S

Make: Rotary Lift Model: SPO16

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: 15,000 lbs.;
2. DIMENSION: Minimum Width - 125 Inches, Minimum Width Between Posts - 120 Inches, Minimum Extended Cylinder Height - 160 Inches, Minimum Full Rise Height – 72”, Maximum Ceiling Height required - 17`
3. OPERATION: Speed of rise - fully lowered to fully raised in 90 seconds;
4. SAFETY: Manual or Automatic Lock Release, *Meets all applicable safety standards;
5. MOTOR: 2.0 HP 208-230 V Minimum;
6. ACCESSORIES: Power Upgrades Options, Air/Electric workstation, w/Filter/Lubricator/Regulator, Tire Tool Manager Workstation w/Filter/Lubricator/Regulator, Column Height Extensions, Door protection. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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FSA20-EQU18.0 HEAVY EQUIPMENT CONTRACT

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SPECIFICATION GROUP - VEHICLE LIFT: Stationary - 2 Post Asymmetric Stationary Vehicle Lift 18k

Make: Challenger Model: 18000

Make: Rotary Lift Model: SPO20

FSA Item Specifications Description:

1. MINIMUM LIFT CAPACITY: 18,000 lbs.;
2. DIMENSION: Minimum Width - 125 Inches, Minimum Width Between Posts - 118 Inches, Minimum Extended Cylinder Height - 142.5 Inches, Minimum Full Rise Height – 85”, Maximum Ceiling Height required - 17`
3. OPERATION: Speed of rise - fully lowered to fully raised in 60 seconds;
4. SAFETY: Manual or Automatic Lock Release, *Meets all applicable safety standards;
5. MOTOR: 3.0 HP 208-230 V Minimum;
6. ACCESSORIES: Power Upgrades Options, Air/Electric workstation, w/Filter/Lubricator/Regulator, Tire Tool Manager Workstation w/Filter/Lubricator/Regulator, Column Height Extensions, Door protection. *Equipment must comply with all applicable federal, state, and local regulations and meet OSHA, UL-201, NEC, and the latest ANSI standard, ANSI/ALI -ALCTV 2006 and IBC 2003, IBC 2006 Chapter 30 section 3001.2. Equipment must be structurally, and safety tested and certified to ANSI/ALI -ALCTV 2006 automotive lift standard, a copy of listing certification shall be supplied as part of the acceptance of the bid. Equipment must be supplied with all ANSI, ALI/ETL safety booklet, ANSI operations, installation, and maintenance booklets, ANSI/ALI aloim-2008 standard and lifting point guides. Equipment must be supplied with all ANSI, ALI/ETL safety decals. Decals must be permanently placed on the lift in clear view for the operator.

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SPECIFICATION GROUP - VEHICLE LIFT: Stationary - 2 post Versymmetric Stationary Vehicle Lift 10k

Make: Challenger Model: CL10V3

FSA Item Specifications Description:

Lifting Capacity 10,000 lbs. Lifting Configuration Versymmetric (Symmetric & Asymmetric) Arms 3-stage front/3-stage rear Rise Height 74.125" Overall Height 134" / 140" Overall Height (Cylinder Extended) 143" 2` Height Extension Available Yes 3` Height Extension Available Yes Overall Width 138.5" / 143" Drive-Thru Clearance 100" / 104.5" Floor to Overhead Switch 128.5" / 134.5" Front Arm Reach 20" – 42" Rear Arm Reach 37.625" – 60" Screw Pad Height 3.875" - 6.125" Inside Columns 110" / 114.5" Motor / Voltage 2HP, 208v-230v, 60Hz, 1Ph Speed of Rise 38 s Ceiling Height Required 12` ALI/ETL Certified Yes

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SPECIFICATION GROUP - VEHICLE LIFT: Stationary - 4 Column, Alignment Lift with Front/Rear Jacks and Integrated Turntables and Slip Plates 14K

Make: Challenger Model: AR4115XAO

FSA Item Specifications Description:

Capacity 15,000 lbs. Open or Closed Front Open Max. Wheelbase 210" Rise Height 78" Overall Length 277.25" Overall Width 142" front / 134.5" rear Inside Columns 120" Between Columns 222.5" Height of Columns 99.5" / 93.5" Width of Runways 20" Height of Runways 7" Width Between Runways 43" Max. 2 Wheel Alignment - 194" 4 Wheel Alignment - 88" - 158" Air Supply Required 90-120 psi Motor / Voltage 2HP, 208v-230v, 60Hz Speed or Rise 85 s Min. Recomm. Bay Size 12` x 26` ALI/ETL Certified Yes Colors Available Red, Blue, Black