



*Florida Department of Transportation*

RON DESANTIS  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.  
SECRETARY

**MEMORANDUM NO. 1: DOT-ITB-24-9014-CA**

**TO:** Vendor Address  
Department Address

**FROM:** Cassandra Anderson, Procurement Agent

**SUBJECT:** DOT Contract – DOT-ITB-24-9014-CA  
Truck Mounted Excavator Large  
CR795

This contract is being amended to replace the contract price sheets awarded to the subject vendor in accordance with DOT-ITB-24-9014-CA. The contract price sheets have been updated to reflect these changes.

Any question on delivery or service that may arise regarding this contract should be directed to Renee Matthews at [renee.matthews@dot.state.fl.us](mailto:renee.matthews@dot.state.fl.us) or call (850) 410-5726.

2/2/2024

## Model Options

## XL4100 V 6X6 -

## Upperstructure

80365046	2.5 # Cab Mounted Fire Extinguisher	\$207.00
80769129	Amber Strobes (2) Mounted on Posts on each side of Counterweight	\$2,464.00
80769095	Amber/White Mini-Strobe Light Bar	\$974.00
80729002	Aux Tube Adapter	\$2,833.00
80769125 & 80769076	Beacon Light - "GREEN" -LED- Upper - w/Branch Guard	\$1,424.00
80769125	Beacon Light- "GREEN" -LED- Upper - w/o Branch Guard	\$1,225.00
80769025 & 80769076	Beacon Light -LED- Upper - w/Branch Guard	\$1,149.00
80769025	Beacon Light-LED- Upper - w/o Branch Guard	\$950.00
80769143 & 80769076	Bracket Mounted Beacon Light - LED-Upper w/Branch Guard	\$1,149.00
80769139	Camera System - Upper - Quad Monitor w/ 2 Cameras	\$3,422.00
80739033	Case Drain	\$3,684.00
	Case Drain hosing for 8' Boom Extension	\$790.00
	CE Certification Documents	\$0.00
80465068	Cigarette Lighter - Upper	\$27.00
80739025	Cylinder Spool for Aux Hydraulics	\$527.00
80789081	Dual Note Electrical Horn	\$211.00
80505005	Escape Hammer	\$172.00
80865008	Fire Extinguisher 10# - Upper	\$598.00
80483281	First Aid Kit	\$204.00
80765083	Foot Pedal Operated Auxiliary Hydraulics - Uni-Directional Flow	\$674.00
80365084	Front Window Guard (Hinged) - Upper Cab	\$4,044.00
80769127	HALO Lighting	\$1,622.00
80769131	Heated Mirrors - Upper	\$522.00
80509037	Heated Mirrors - Wiring Only - Remote Directional Control - Upper	\$311.00
80465083	Hourmeter In Upper Cab	\$316.00
80735010	Low Pressure Aux. Return To Tank	\$632.00
80769083	Lube Chart - Upper, Permanent Outside & Visible	\$400.00
80789159	Non Slip Durbak 18 Coating for both Upper & Chassis	\$1,579.00
	Paint, Special, One Color, Including Cabs (Please Provide RAL # to factory)	\$7,527.00
80769037	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Upper	\$617.00
80865015	Quick Disconnect Installation	\$1,014.00
80789241	Red Reflective Counterweight Conspicuity Stripes	\$1,150.00
82175006	Rexroth Bodas Software & Cable Kit	\$2,033.00
80763161	ROPs Integrated Upper Cab	\$2,632.00
80785042	Seat Belt Upper w/Shoulder Restraint	\$337.00
80465058	Sun Visor - Upper Cab	\$912.00
80763114	Vandal Cover - Upper Cab	\$3,423.00

## Chassis

80789075	Power Supply W/ Cigarette Lighter Socket Type 12V - Chassis	\$551.00
80789108	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Chassis	\$554.00
80783297	315 HP Engine with Engine Brake	\$8,948.00
80385167	Air Restriction Gauge - Chassis Cab - " The Informer "	\$327.00
X3105065	Air Restriction Gauge - Chassis Cab (Note: Drawing Needs Revised)	\$327.00
80789070	AM/FM Stereo Radio With Weatherband - Chassis	\$807.00
80483243	Battery - Interstate Optima - Maintenance Free - Spiral Wound Cells	\$632.00
80789216 & 80769076	Beacon Light -"GREEN" -LED - Chassis - w/Branch Guard	\$1,424.00
80789216	Beacon Light- "GREEN" -LED- Chassis - w/o Branch Guard	\$1,225.00
80789180 & 80769076	Beacon Light -LED - Chassis - w/Branch Guard	\$1,149.00
80789180	Beacon Light-LED- Chassis - w/o Branch Guard	\$950.00
80789068	Bucket Carrier Assembly	\$2,755.00
80789267	Camera System - Chassis - Dual Monitor & Cameras	\$2,290.00
80783411	DEF Tank Cap - Locking w/Key	\$158.00
80789081	Dual Note Electrical Horn	\$211.00
80385171	Emergency Kit - Flares & Triangles	\$217.00
80505006	Excaped Hammer - Chassis	\$172.00
80789080	Fire Extinguisher 10# - Chassis With Cover	\$320.00
80789071	Heated Mirrors - Chassis	\$1,632.00
80789062	Intermittent Wiper Switch - Chassis	\$465.00
80485043	Left Hand Rear Step	\$729.00

80789082	Lighted Front License Plate Bracket	\$260.00
80789116	Lights 8 LED Flashing 24V - All 4 Corners	\$4,718.00
80789178	Lube Chart - Chassis, Permanent Outside & Visible	\$400.00
X4105172	Mud Flaps - (No Logo) - 6x6	\$569.00
80789203	Outrigger / Stabilizer Option - Rear	\$28,956.00
80385057	Protecto - Seal Locking Fuel Cap W/ Key	\$211.00
80785042	Seat Belt Chassis w/Shoulder Restraint	\$337.00
80785208	Spare Front Tire / Wheel Assembly	\$2,182.00
80785134	Spare Rear Tire / Wheel Assembly, Goodyear - 11R/24.5	\$1,315.00
80789158	Spark Arrestor	\$1,337.00
80789201	Special (4) Four Point Lifting Provisions	\$2,632.00
80385147	Tilt Steering Column - Chassis	\$1,109.00
80785044	Travel Alarm - Adjustable Volume	\$274.00
80789077	Twin Air Horns - Chassis	\$527.00
80783250	Vandal Cover Installation - Chassis	\$2,422.00
80705007	Wheel Lug Wrench Set	\$211.00

**Attachments**

06200561	48" Saber Saw Blade Kit	\$4,711.00
06200897	50" Tiger Flail Mower	\$13,206.00
06102600	50" Tiger Rotary Mower	\$14,058.00
80656037	Attachment Adapter - Blank	\$1,369.00
80655036	Aux. Hyd. Hoses For 12 Ft. Boom Extension	\$1,674.00
80655033	Aux. Hyd. Hoses For 4 Ft. Boom Extension	\$1,400.00
80655034	Aux. Hyd. Hoses For 6 Ft. Boom Extension	\$1,689.00
80655035	Aux. Hyd. Hoses For 8 Ft. Boom Extension	\$1,569.00
80755034	Boom Extension - 7' Adjustable Angle	\$28,232.00
80655028	Boom Extension - 4 Ft. w/o Aux Hoses	\$13,093.00
80655029	Boom Extension - 6 Ft. w/o Aux. Hoses	\$13,495.00
80655030	Boom Extension - 8 Ft. w/o Aux Hoses	\$14,504.00
80455049	Bucket - Ditching - 24" w/Bolt on Cutting Edge	\$4,626.00
80656040	Bucket - Ditching - 30"	\$4,008.00
80656058	Bucket - Ditching - 48"	\$5,576.00
80655037	Bucket - Ditching - 48" w/ Bolt On Cutting Edge	\$6,960.00
80656007	Bucket - Ditching - 60"	\$5,551.00
80656092	Bucket - Ditching - 60" w/Bolt On Cutting Edge	\$6,286.00
80656006	Bucket - Ditching - 66" Constant Radius	\$5,894.00
80656093	Bucket - Ditching - 66" w/Bolt On Cutting Edge	\$6,629.00
80656002	Bucket - Ditching - 72"	\$6,519.00
80656094	Bucket - Ditching - 72" W/ Bolt On Cutting Edge	\$7,095.00
80656132	Bucket - Dredging - 60"	\$8,493.00
80656013	Bucket - Dredging - 72"	\$8,734.00
80556011	Bucket - Dredging Bucket 60" for Telestick	\$7,622.00
80456020	Bucket - Excavating - 24"	\$4,831.00
80656065	Bucket - Excavating - 24" w/o Teeth	\$3,988.00
80456021	Bucket - Excavating - 30"	\$5,199.00
80456022	Bucket - Excavating - 36"	\$5,683.00
X4106093	Bucket - Excavating - 36" w/5 Teeth	\$6,064.00
80456023	Bucket - Excavating - 42"	\$6,138.00
80656064	Bucket - Excavating - 42" w/o Teeth	\$5,509.00
80456024	Bucket - Excavating - 48"	\$6,630.00
80656115	Bucket - Pavement Removal - 18" (Curbing)	\$7,216.00
80656116	Bucket - Pavement Removal - 24" (Curbing)	\$8,920.00
80656114	Bucket - Pavement Removal - 28"	\$9,300.00
80656102	Bucket - Pavement Removal - 40"	\$12,176.00
80656119	Bucket - Pavement Removal - 48"	\$12,877.00
80656104	Bucket - Trenching - 15"	\$7,006.00
80656012	Bucket - Trenching - 21"	\$7,695.00
80753044	Chisel Bit for Rammer Hammer	\$1,246.00
80755023	Fixed Thumb Grapple	\$11,716.00
80656024	Grading Blade - 8 Ft.	\$4,938.00
80656035	Guardrail Clean-Out	\$6,810.00
80455052	Limb Shear	\$15,156.00
80759012	Rammer Hammer 999 Installation - Bucket Adapter	\$34,000.00
80756038	Ripper - Single Tooth - Bucket Adapter Style	\$4,811.00
80789105	Telestick Boom Extension w/Boom Rest (80785122) & (80456013) 60" Bucket	\$47,710.00

_____	Complete set of Service Training Manual	\$527.00
_____	Complete set of Volvo overhaul Manuals	\$527.00
_____	Extra Set Of Keys (4): (2) 77384578 Ignition & (2) 91144470 Door & Covers	\$22.00
Manuals	Printed Set Of Parts, Service & Operator's Manuals	\$274.00

## Model Options

### XL5100 V 6x6 -

#### Upperstructure

80365046	2.5 # Cab Mounted Fire Extinguisher	\$207.00
80729002	Aux Tube Adapter	\$2,833.00
80769125 & 80769076	Beacon Light - "GREEN" -LED- Upper - w/Branch Guard	\$1,424.00
80769125	Beacon Light- "GREEN" -LED- Upper - w/o Branch Guard	\$1,225.00
80769025 & 80769076	Beacon Light -LED- Upper - w/Branch Guard	\$1,149.00
80769025	Beacon Light-LED- Upper - w/o Branch Guard	\$950.00
80769143 & 80769076	Bracket Mounted Beacon Light - LED-Upper w/Branch Guard	\$1,149.00
80769139	Camera System - Upper - Quad Monitor w/ 2 Cameras	\$3,422.00
80539002	Case Drain	\$3,367.00
	CE Certification Documents	\$0.00
80465068	Cigarette Lighter - Upper	\$27.00
80739025	Cylinder Spool for Aux. Hydraulics	\$527.00
80789081	Dual Note Electrical Horn	\$211.00
80505005	Escape Hammer	\$172.00
80865008	Fire Extinguisher 10# - Upper	\$598.00
80483281	First Aid Kit	\$204.00
80769146	Foot Pedal Operated Auxiliary Hydraulics - Uni-Directional Flow	\$674.00
80365084	Front Window Guard (Hinged) - Upper Cab	\$4,044.00
80769127	HALO Lighting	\$1,622.00
80769131	Heated Mirrors - Upper	\$522.00
80509037	Heated Mirrors - Wiring Only - Remote Directional Control - Upper	\$311.00
80465083	Hourmeter In Upper Cab	\$316.00
80739063	Low Pressure Aux. Return To Tank	\$632.00
80769083	Lube Chart - Upper, Permanent Outside & Visible	\$400.00
	Paint, Special, One Color, Including Cabs (Please Provide RAL # to factory)	\$7,527.00
80739137	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Upper	\$586.00
80769137	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Upper	\$617.00
80769037	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Upper	\$617.00
80865015	Quick Disconnect Installation	\$1,014.00
82175006	Rexroth Bodas Software & Cable Kit	\$2,033.00
80763161	ROPs Integrated Upper Cab	\$2,632.00
80785042	Seat Belt Upper w/Shoulder Restraint	\$337.00
80465058	Sun Visor - Upper Cab	\$912.00
80763114	Vandal Cover - Upper Cab	\$3,423.00

#### Chassis

80789075	Power Supply W/ Cigarette Lighter Socket Type 12V - Chassis	\$551.00
80789108	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Chassis	\$554.00
80385167	Air Restriction Gauge - Chassis Cab - " The Informer "	\$327.00
X3105065	Air Restriction Gauge - Chassis Cab (Note: Drawing Needs Revised)	\$327.00
80789265	AM/FM Stereo Radio With Bluetooth - Chassis	\$807.00
80483243	Battery - Interstate Optima - Maintenance Free - Spiral Wound Cells	\$632.00
80789216 & 80769076	Beacon Light -"GREEN" -LED - Chassis - w/Branch Guard	\$1,424.00
80789216	Beacon Light- "GREEN" -LED- Chassis - w/o Branch Guard	\$1,225.00
80789180 & 80769076	Beacon Light -LED - Chassis - w/Branch Guard	\$1,149.00
80789180	Beacon Light-LED- Chassis - w/o Branch Guard	\$950.00
80789068	Bucket Carrier Assembly	\$2,755.00
80789267	Camera System - Chassis - Dual Monitor & Cameras	\$2,290.00
80783411	DEF Tank Cap - Locking w/Key	\$158.00
80789081	Dual Note Electrical Horn	\$211.00
80385171	Emergency Kit - Flares & Triangles	\$217.00
80505006	Escape Hammer - Chassis	\$172.00
80789093	Extended Steps	\$2,045.00
80789080	Fire Extinguisher 10# - Chassis With Cover	\$320.00
80789071	Heated Mirrors - Chassis	\$1,632.00
80789062	Intermittent Wiper Switch - Chassis	\$465.00
80485043	Left Hand Rear Step	\$729.00
80789188	License Plate Bracket - Front & Rear Lit	\$316.00
80885029	License Plate Brackets - Rear Lit - Front Unlit	\$358.00

80789178	Lube Chart - Chassis, Permanent Outside & Visible	\$400.00
X4105172	Mud Flaps - (No Logo) - 6x6	\$569.00
80789203	Outrigger / Stabilizer Option - Rear	\$28,956.00
80385057	Protecto - Seal Locking Fuel Cap W/ Key	\$211.00
80785042	Seat Belt Chassis w/Shoulder Restraint	\$337.00
80785208	Spare Front Tire / Wheel Assembly	\$2,182.00
80785134	Spare Rear Tire / Wheel Assembly, Goodyear - 11R/24.5	\$1,315.00
80789158	Spark Arrestor	\$1,337.00
80789201	Special (4) Four Point Lifting Provisions	\$2,632.00
80385147	Tilt Steering Column - Chassis	\$1,109.00
80785044	Travel Alarm - Adjustable Volume	\$274.00
80789077	Twin Air Horns - Chassis	\$527.00
80783250	Vandal Cover Installation - Chassis	\$2,422.00
80705007	Wheel Lug Wrench Set	\$211.00
<b>Attachments</b>		
06200561	48" Saber Saw Blade Kit	\$4,711.00
06200897	50" Tiger Flail Mower	\$13,206.00
06102600	50" Tiger Rotary Mower	\$14,058.00
80656037	Attachment Adapter - Blank	\$1,369.00
80655036	Aux. Hyd. Hoses For 12 Ft. Boom Extension	\$1,674.00
80655033	Aux. Hyd. Hoses For 4 Ft. Boom Extension	\$1,400.00
80655034	Aux. Hyd. Hoses For 6 Ft. Boom Extension	\$1,689.00
80655035	Aux. Hyd. Hoses For 8 Ft. Boom Extension	\$1,569.00
80755034	Boom Extension - 7' Adjustable Angle	\$28,232.00
80655031	Boom Extension - 12 Ft. w/o Aux. Hoses	\$16,819.00
80655028	Boom Extension - 4 Ft. w/o Aux Hoses	\$13,093.00
80655029	Boom Extension - 6 Ft. w/o Aux. Hoses	\$13,495.00
80655030	Boom Extension - 8 Ft. w/o Aux Hoses	\$14,504.00
80455049	Bucket - Ditching - 24" w/Bolt on Cutting Edge	\$4,626.00
80656040	Bucket - Ditching - 30"	\$4,008.00
80656058	Bucket - Ditching - 48"	\$5,576.00
80655037	Bucket - Ditching - 48" w/ Bolt On Cutting Edge	\$6,960.00
80656007	Bucket - Ditching - 60"	\$5,551.00
80656092	Bucket - Ditching - 60" w/Bolt On Cutting Edge	\$6,286.00
80656006	Bucket - Ditching - 66" Constant Radius	\$5,894.00
80656093	Bucket - Ditching - 66" w/Bolt On Cutting Edge	\$6,629.00
80656002	Bucket - Ditching - 72"	\$6,519.00
80656094	Bucket - Ditching - 72" W/ Bolt On Cutting Edge	\$7,095.00
80656132	Bucket - Dredging - 60"	\$8,493.00
80656013	Bucket - Dredging - 72"	\$8,734.00
80556011	Bucket - Dredging Bucket 60" for Telestick	\$7,622.00
80456020	Bucket - Excavating - 24"	\$4,831.00
80656065	Bucket - Excavating - 24" w/o Teeth	\$3,988.00
80456021	Bucket - Excavating - 30"	\$5,199.00
80456022	Bucket - Excavating - 36"	\$5,683.00
X4106093	Bucket - Excavating - 36" w/5 Teeth	\$6,064.00
80456023	Bucket - Excavating - 42"	\$6,138.00
80656064	Bucket - Excavating - 42" w/o Teeth	\$5,509.00
80456024	Bucket - Excavating - 48"	\$6,630.00
80656115	Bucket - Pavement Removal - 18" (Curbing)	\$7,216.00
80656116	Bucket - Pavement Removal - 24" (Curbing)	\$8,920.00
80656114	Bucket - Pavement Removal - 28"	\$9,300.00
80656102	Bucket - Pavement Removal - 40"	\$12,176.00
80656119	Bucket - Pavement Removal - 48"	\$12,877.00
80656104	Bucket - Trenching - 15"	\$7,006.00
80656012	Bucket - Trenching - 21"	\$7,695.00
80755023	Fixed Thumb Grapple	\$11,716.00
80656024	Grading Blade - 8 Ft.	\$4,938.00
80656035	Guardrail Clean-Out	\$6,810.00
80455052	Limb Shear	\$15,156.00
80759012	Rammer Hammer 999 Installation - Bucket Adapter	\$34,000.00
80756038	Ripper - Single Tooth - Bucket Adapter Style	\$4,811.00
80559002	Telestick Boom Extension w/Boom Rest ( 80785122 ) & (80456013) 60" Bucket	\$50,878.00
80759020	Tiger Growler Mulcher 36"	\$23,330.00

**Manual Instructions**

Manuals

Covers  
Printed Set Of Parts, Service & Operator's Manuals

\$274.00

**State of Florida  
Department of Transportation**



INVITATION TO BID

**TRUCK MOUNTED EXCAVATOR LARGE**

**DOT-ITB-24-9014-CA**

**EFFECTIVE DATES**

**September 28, 2023 – September 27, 2025**

**VENDORS:**

**Great Southern Equipment, LLC**

**MFMP CONTRACT#:**

**CR795**



**BID SHEET (Page 1 of 3)**BID #: DOT-ITB-24-9014-CAFOB: STATEWIDEBID TITLE: TRUCK MOUNTED EXCAVATOR LARGEVENDOR NAME: Great Southern Equipment, LLCFEID#: F874067006-001

ITEM 1: XL4100, PRICE PER UNIT DELIVERED TO ANY FDOT LOCATION IN FLORIDA.

TRUCK MOUNTED EXCAVATOR LARGE, PER SPECIFICATIONS FC 2011,

Base price installed on carrier supplied by vendor (must be finished turn-key unit): \$ 590,609.00Manufacturer and Model: Gradall XL4100Delivery 180 days after receipt of carrier.

ITEM 2: XL5100, PRICE PER UNIT DELIVERED TO ANY FDOT LOCATION IN FLORIDA.

TRUCK MOUNTED EXCAVATOR LARGE, PER SPECIFICATIONS FC 2011,

Base price installed on carrier supplied by vendor (must be finished turn-key unit): \$ 654,153.00Manufacturer and Model: Gradall XL5100Delivery 240 days after receipt of carrier.

OPTION: MAY OR MAY NOT BE PURCHASED AT DISCRETION OF THE FDOT.

(OPTION PRICE MAY BE CONSIDERED AS BASIS OF AWARD.)VENDOR NAME: Great Southern Equipment, LLC FEID#: F874067006-001

**BIDDERS MUST SUPPLY A LIST OF ALL OPTIONS SHOWN ABOVE THAT ARE AVAILABLE FROM THEM, AS WELL AS ALL OTHER AVAILABLE OPTIONS, PRICED INDIVIDUALLY, A DESCRIPTION OF EACH ITEM OFFERED MUST BE PROVIDED.**

Option 9.0 Use additional pages as needed.

ITEM DESCRIPTION: See Attached Options Price List

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**BID SHEET (Page 2 of 3)**

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**BID SHEET (Page 3 of 3)**

**DELIVERY:** Delivery will be made within 120 days after receipt of Purchase Order.

Is this product available with recycled content? Yes  No

If yes, please send information separate from this Invitation to Bid (See Recycled Material Special Condition for more information).

**RENEWAL:** see Introduction Section #7.

THE UNIT PRICE(S) WILL APPLY TO THE INITIAL TERM AND ANY RENEWAL PERIODS.

**MFMP Transaction Fee:**

All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the MFMP Transaction Fee in accordance with the attached Form PUR 1000 General Contract Condition #14. The Transaction Fees imposed shall be based upon the date of issuance of the payment.

**NOTE:** In submitting a response, the bidder acknowledges they have read and agree to the solicitation terms and conditions and their submission is made in conformance with those terms and conditions.

**ACKNOWLEDGEMENT:** I certify that I have read and agree to abide by all terms and conditions of this solicitation and that I am authorized to sign for the bidder. I certify that the response submitted is made in conformance with all requirements of the solicitation.

Bidder: Great Southern Equipment, LLC FEID# F874067006-001

Address: 1023 S 50<sup>th</sup> Street City, State, Zip: Tampa, Florida 33619

Phone: 813-248-4971 E-mail: RFERWERDA@GSEQUIPMENT.NET

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed/Typed: \_\_\_\_\_ Title: \_\_\_\_\_

BID SHEET (Page 1 of 3)

BID #: DOT-ITB-24-9014-CA

FOB: STATEWIDE

BID TITLE: TRUCK MOUNTED EXAVATOR LARGE

VENDOR NAME: GREAT SOUTHERN EQUIPMENT LLC FEID#: 87-4067006

ITEM 1: XL4100, PRICE PER UNIT DELIVERED TO ANY FDOT LOCATION IN FLORIDA.

TRUCK MOUNTED EXCAVATOR LARGE, PER SPECIFICATIONS FC 2011,

Base price installed on carrier supplied by vendor (must be finished turn-key unit): \$ 590,609.00

Manufacturer and Model: GRADALL XL4100

Delivery 180 days after receipt of carrier.

ITEM 2: XL5100, PRICE PER UNIT DELIVERED TO ANY FDOT LOCATION IN FLORIDA.

TRUCK MOUNTED EXCAVATOR LARGE, PER SPECIFICATIONS FC 2011,

Base price installed on carrier supplied by vendor (must be finished turn-key unit): \$ 654,153.00

Manufacturer and Model: GRADALL XL5100

Delivery 240 days after receipt of carrier.

OPTION: MAY OR MAY NOT BE PURCHASED AT DISCRETION OF THE FDOT.  
(OPTION PRICE MAY BE CONSIDERED AS BASIS OF AWARD.)

VENDOR NAME: GREAT SOUTHERN EQUIPMENT LLC FEID#: 87-4067006

BIDDERS MUST SUPPLY A LIST OF ALL OPTIONS SHOWN ABOVE THAT ARE AVAILABLE FROM THEM, AS WELL AS ALL OTHER AVAILABLE OPTIONS, PRICED INDIVIDUALLY, A DESCRIPTION OF EACH ITEM OFFERED MUST BE PROVIDED.

Option 9.0 Use additional pages as needed.

ITEM DESCRIPTION: SEE ATTACHED OPTIONS PRICE LIST

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**BID SHEET (Page 2 of 3)**

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**ITEM DESCRIPTION:** \_\_\_\_\_

Manufacturer and model number: \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

**BID SHEET (Page 3 of 3)**

**DELIVERY:** Delivery will be made within 120 days after receipt of Purchase Order.

Is this product available with recycled content? \_\_\_Yes XNo

If yes, please send information separate from this Invitation to Bid (See Recycled Material Special Condition for more information).

**RENEWAL:** see Introduction Section #7.

THE UNIT PRICE(S) WILL APPLY TO THE INITIAL TERM AND ANY RENEWAL PERIODS.

**MFMP Transaction Fee:**

All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the MFMP Transaction Fee in accordance with the attached Form PUR 1000 General Contract Condition #14. The Transaction Fees imposed shall be based upon the date of issuance of the payment.

**NOTE:** In submitting a response, the bidder acknowledges they have read and agree to the solicitation terms and conditions and their submission is made in conformance with those terms and conditions.

**ACKNOWLEDGEMENT:** I certify that I have read and agree to abide by all terms and conditions of this solicitation and that I am authorized to sign for the bidder. I certify that the response submitted is made in conformance with all requirements of the solicitation.

Bidder: GREAT SOUTHERN EQUIPMENT LLC FEID# 87-4067006  
 Address: 1023 S 50<sup>TH</sup> ST City, State, Zip: TAMPA FL 33619  
 Phone: 813-248-4971 E-mail: RFERWERDA@GSEQUIPMENT.NET  
 Authorized Signature: RK7 Date: 9/9/23  
 Printed/Typed: RAYMOND FERWERDA JR. Title: PRESIDENT

# ACKNOWLEDGMENT OF ORDER

PURCHASING AGENCY: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\*\*\*\*\*

Your purchase order number \_\_\_\_\_ was received on \_\_\_\_\_. The order was placed with the manufacturer on \_\_\_\_\_. We anticipate delivery to your agency on or about \_\_\_\_\_.

Please reference your purchase order number or the production number if an inquiry should become necessary. Contractor's request that purchaser(s) refrain from inquires about delivery unless the anticipated delivery has been exceeded.

\*\*\*\*\*

CONTRACTOR NAME: \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

\*\*\*\*\*

COMMENTS: \_\_\_\_\_

\_\_\_\_\_  
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\_\_\_\_\_

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: **FC2011Truck Mounted Excavator Large**  
Unit of Equipment: **Truck Mounted Excavator Large**

**1.0 INTENT:** The intent of this specification is to provide minimum procurement requirements for a carrier mounted, single engine, fully hydraulic telescoping boom excavator capable of excavating, grading, sloping, backfilling, etc., equivalent to a Gradall model XL4100 or XL5100. The unit shall be current production and the manufacturer's printed literature shall be submitted with the bid. The unit will be a finished, integrated, turnkey system, mounted and performance tested by the vendor on the carrier supplied by the vendor.

GRADALL XL4100  
Make and Model of Excavator Unit Bid?

**1.1 QUALIFICATION OF MANUFACTURE AND MODEL:** The unit required and covered by this specification shall be the manufacturer's latest basic production model and shall be equipped with all standard equipment in accordance with the manufacturer's latest literature, two (2) copies of which must accompany the bid. No prototypes are allowed. The unit bid must have basically been in production for a minimum of one (1) year.

YES  
Comply? (Yes/No)

This contract will not be awarded until the FDOT is satisfied that the equipment proposed will meet the specification in every way. This may require interviews, documented proof, an equipment demonstration, and inspection at an FDOT location of our choosing, or any combination of the above. Prospective suppliers will be expected to be fully cooperative with providing any reasonable evidence of specification compliance by the above methods. A maximum of 30 days between bid opening and contract award may be required for this process. After contract award, specification compliance will be reconfirmed by inspection, documentation, and demonstration when the unit is delivered, prior to acceptance. **(See Section 6.0)**

YES  
Understand and acknowledge? (Yes/No)

## 1.2 DEFINITIONS:

**1.2.1 "Approved Equivalent"** must be approved prior to bid opening. If this has not been accomplished by bid opening time, your bid will be rejected. The FDOT assumes no responsibility for responding to requests for approval of alternates in time for bid opening, as a technical evaluation frequently must be performed. Therefore, bidders are cautioned that quoting of the components listed may be advisable if lead time is short.

Note: Inadvertent acceptance of previous bids with alternate components shall not be construed as FDOT approval of such alternate components.

YES  
Understand and Acknowledge? (Yes/No)



# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: **FC2011Truck Mounted Excavator Large**  
Unit of Equipment: **Truck Mounted Excavator Large**

**1.2.2 Manufacturer's model numbers:** When a manufacturer's model number is stated, it is understood that design changes to the stated model by the manufacturer are not subject to the control of the FDOT and that the intent is to procure an item substantially identical to that version last procured by, demonstrated to, or otherwise brought to the attention of the FDOT. It is explicitly understood that it is the responsibility of the bidder to notify the FDOT of any changes of consequence. Please contact the person named on the bid documents for information regarding the last model for which information is on record with the FDOT bid evaluators.

YES  
Understand and Acknowledge? (Yes/No)

**1.2.3 "Heavy Duty":** This term means that the design and construction of the item is sufficiently rugged and has adequate safety factors to stand up to the sort of use typically expected to be experienced by FDOT drivers/operators without structural or functional failure or other consequences such that the item causes or will probably cause excessive down time.

YES  
Understand and Acknowledge? (Yes/No)

**1.2.4 "Per spec":** Whenever a specification such as SAE, OSHA, or FED-STD (but not limited to those) is referred to, the latest version as of the date of bid opening is the version to be used. If an update takes place between the time of bid opening and equipment delivery, the successful bidder and the FDOT will mutually agree in writing on which version shall prevail unless there are statutory requirements that the new version be used.

YES  
Understand and Acknowledge? (Yes/No)

**2.0 CARRIER:** The carrier shall be a 6 X 6 rubber-tired type, 8'-6" wide with a 69,000 lb. gross vehicle axle weight rating. The frame shall be fabricated plate construction, 65 KSI materials. The wheelbase of the unit shall be a minimum of 170" and the frame width a minimum of 48". The carrier shall be equipped with remote control.

248 HP, 69,000 lbs GVWR  
Bidder must provide carrier information (HP, GVWR, RBM, CA, and any PTO provisions)

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: **FC2011Truck Mounted Excavator Large**  
Unit of Equipment: **Truck Mounted Excavator Large**

**3.0 EXCAVATOR DEVICE:** The excavator shall consist of a revolving upper structure mounted on a rubber-tired carrier complete with full hydraulic powered remote control.

YES  
Understand and Acknowledge? (Yes/No)

**3.1 Rotating Structure:** The Upper structure shall be supported on the carrier by an internal swing bearing and must be capable of continuous swinging at not less than 8 RPM. The counterweight shall weigh not more than 8,850 pounds and the tail swing shall not exceed 8' 0". The swing system shall incorporate a spring set, hydraulic release swing parking brake. Anti-slip paint is required on all walking surfaces.

8,850  
Counterweight capability? (ft.)

8'  
Max. tail swing? (ft.)

**3.1.2** Maximum speed of continuous swing.

8 RPM  
Maximum swing? (RPM)

**3.1.3** The boom shall be triangular in cross section and shall consist of a main section and a telescoping section. Two-hose auxiliary hydraulics for operating motor-powered attachments. Adjustable boom rollers shall be furnished on both boom sections.

YES  
Comply? (Yes/No)

8'  
Max. tail swing? (ft.)

**3.1.4** The telescope section shall be equipped with a quick-change bucket adapter and shall telescope hydraulically through not less than 12' 6". The boom assembly shall be supported by a cradle that provides for the tilt of the entire boom assembly and attachment through an arc of not less than 220 degrees about its longitudinal axis.

12' 6"  
Boom telescope distance? (ft.)

220 DEGREES  
Minimum boom tilt arc? (degrees)

**3.1.5** The boom shall rise through an arc of not less than 30 degrees and lower not less than 75 degrees. The attachment shall open and close through an arc of not less than 165 degrees.

30 DEGREES  
Boon rise arc minimum? (degrees)

75 DEGREES  
Boon lower arc minimum? (degrees)

165 DEGREES  
Boon attachment arc minimum? (degrees)

**3.2 Hydraulic System:** Power for the hydraulic system shall be supplied by the carrier engine. There shall be one-piston pump providing not less than 77 GPM @ 4,800 PSI.

77 GPM  
Piston pump minimum GPM @ 4,800 PSI?

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: FC2011Truck Mounted Excavator Large  
Unit of Equipment: Truck Mounted Excavator Large

3.2.1 The pump shall be engaged with a PTO to the transmission. The system shall provide for simultaneous boom, swing, and remote functions, quick disconnect type pressure check ports, minimum 64 HP swing motor, minimum 21 HP tilt motor, minimum 110 HP remote drive motor, appropriate relief valves, oil cooler and filter with service indicator.

64 HP  
Swing motor? (HP)

110 HP  
Remote drive motor? (HP)

3.2.2 The pressurized reservoir shall be of minimum 50-gallon capacity and shall be equipped with sight level gauges. System operating pressure shall not exceed 4,800 PSI.

50 GALLONS  
Minimum capacity (gallons)

4,800 PSI  
Maximum operating pressure? (PSI)

3.3 Cab & Controls: The operator's cab shall be all weather with safety glass windows and skylight. The cab shall be complete with front window that rolls overhead for storage, wiper washer, AC, AM/FM radio, four-way adjustable seat, acoustical treatment, signal horn, filtered heater and defroster, and LED work light package.

YES  
Comply? (Yes/No)

3.3.1 The controls shall be self-centering deadman type consisting of 2 electronic joysticks mounted on the armrests. Engine controls shall include a key type of ignition switch with neutral start and throttle. There shall be warning lights for low air, low diesel exhaust fluid (DEF), engine maintenance, hydraulic filter condition and level. There shall be an automatic engine shutdown for low oil pressure or high coolant temperature.

YES  
Comply? (Yes/No)

3.3.2 Remote carrier propel, steering and automatic digging brake shall be controlled by two-foot pedals. The hydraulic remote-control system shall be complete with an emergency brake control and travel alarm.

YES  
Comply? (Yes/No)

3.4 Carrier: The carrier shall be a 6 X 6 rubber-tired type, 8'-6" wide with a 69,000 lb. gross vehicle axle weight rating. The frame shall be fabricated plate construction, 65 KSI materials. The wheelbase of the unit shall be a minimum of 170" and the frame width a minimum of 48". The carrier shall be equipped with remote control.

69,000 lb  
Carrier GVWR? (lb.)

171"  
Carrier wheelbase? (in.)

YES  
Remote controls? (Yes/No)

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: **FC2011Truck Mounted Excavator Large**  
Unit of Equipment: **Truck Mounted Excavator Large**

**3.4.1 Engine:** The carrier shall be powered by a liquid cooled turbo charged air after cooled with Selective Catalytic Reduction, Tier-4f off highway certification diesel engine with a minimum 248 HP @ 2,200 RPM. The engine shall be equipped with a 120 VAC powered block heater, dry type air cleaner, fuel filter, oil filter, a minimum 100-gallon fuel tank and a minimum 11.9-gallon Urea tank. The electrical system shall be 24 volts and incorporate a 110-amp alternator.

248 HP  
Engine HP at 2,200RPM (HP)      100 GAL      11.9 GAL  
Fuel tank capacity? (gal.)      Diesel exhaust fluid capacity? (gal.)

**3.5 Transmission:** The carrier shall be equipped with a 6-speed Automatic transmission, Allison 3,500/RDS or equivalent, having 6- forward speeds and 1 reverse speed. Max road speed shall be 60 mph.

ALLISON 3500 RDS  
Transmission Make and Model?      6 FORWARD AND 1 REVERSE  
Forward speeds and reverse?

**3.5.1 Transfer Case:** The transmission shall be connected to the drive axles through a drop style transfer case with internal air shifted disconnect for the remote propel motor.

YES  
Comply? (Yes/No)

**3.6 Axles and Suspension:** The front axle shall be rated at 19,000 lb. minimum. The front suspension shall be leaf type and shall be complete with automatic lockout cylinders.

19,000 lbs  
Front axle rated minimum capacity? (lb.)      YES  
Automatic lockout cylinders? (Yes/No)

**3.6.1** The rear axle shall be rated at 50,000 lb. minimum with a 7.17 ratio and single reduction. The axle shall be equipped with a cab-controlled differential lock.

50,000 lb  
Rear axle rated minimum capacity? (lb.)      7.17 RATIO  
Ratio single reduction? (Ratio)

**3.7 Brakes:** The carrier shall be equipped with four-wheel cam type air brakes and automatic slack adjusters. The system shall include spring set brakes incorporating emergency and parking brakes on the rear axle. The system shall include an air compressor and desiccant type air dryer with automatic purge valve and thermostatically controlled heater.

YES  
Comply? (Yes/No)

**3.8 Wheels and Tires:** The wheels shall be 10-stud hub piloted disc. The front tires shall be single 425/65R22.5 LR (L) with on/off highway tread. The eight rear tires shall be 11R24.5 LR (H) with on/off highway traction tread.

10  
Wheels number of studs per wheel?      FRONT 425/65R22.5 LR(L) ON/OFF HIGHWAY TREAD  
REAR 11R24.5 LR(H) ON/OFF HIGHWAY TREAD  
Front and rear tires size and traction tread?

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: FC2011Truck Mounted Excavator Large  
Unit of Equipment: Truck Mounted Excavator Large

3.9 Steering: Carrier steering shall be integral hydraulic power steering.

YES  
Comply? (Yes/No)

3.10 Cab: The carrier cab shall be a one man, isolation mounted cab. The cab shall include Air Conditioning, air seat, tinted safety glass windows, acoustical lining, and heater and defroster. Side windows must open for ventilation and be adjustable.

YES  
Comply? (Yes/No)

3.11 The cab instrument panel shall include the following equipment: Gauges for oil pressure, water temperature, dual air tank pressures, fuel level, DEF level, low-DEF level warning light and alarm, voltmeter, hour meter, speedometer, and odometer. The carrier shall be complete with headlights, taillights, stoplights, back-up lights, identification light clusters, turn indicators, hazard warning, electric windshield wiper and washer, back-up alarm and plain and convex mirrors on both sides.

YES  
Comply? (Yes/No)

### 3.12 Digging Specifications with a 48" Excavating Bucket

- |   |                 |
|---|-----------------|
| 1. Maximum Digging Depth:   | 19' - 11"       |
| 2. Maximum Surface Reach:   | 30' - 2"        |
| 3. Boom Tilt (Total Arc/CW Arc/CCW Arc):                                | 220°/110°/110°  |
| 4. Minimum Reach (Cleanup - Bucket level, ground level boom retracted): | 12' - 4"        |
| 5. Maximum Digging Depth (8' level bottom):                             | 19' - 3"        |
| 6. Minimum Boom Arc:  | +30°,-75° level |
| 7. Tail Swing:  | 8' 0"           |
| 8. Maximum Height with Bucket Below ground level:                       | 15' - 3"        |
| 9. Maximum Loading Height   | 17' - 6"        |
| 10. Bucket Pivot  | 165°            |

YES  
Comply? (Yes/No)

### 13.12.1 Lifting Capacity without bucket, at ground level

- |                      | Over End    | Over Side   |
|----------------------|-------------|-------------|
| 1. 15' 0" Radius     | 10,750 lbs. | 10,585 lbs. |
| 2. 20' 0" Radius     | 7,640 lbs.  | 6,855 lbs.  |
| 3. 25' 0" Radius     | 5,575 lbs.  | 4,810 lbs.  |
| 4. 26' 5" Max Radius | 5,135 lbs.  | 4,390 lbs.  |

YES  
Comply? (Yes/No)

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: FC2011Truck Mounted Excavator Large  
Unit of Equipment: Truck Mounted Excavator Large

## 13.12.2 Travel Dimensions with 48" Excavating Bucket

Width: 8' - 6"  
Height with bucket: 12' - 0"  
Length: 29' - 6"

Note: The equipment shall be capable of performing all functions without the use of outriggers.

YES  
Comply? (Yes/No)

## 4.0 TOOLS AND ACCESSORIES:

4.1 Camera System: Provide a camera system for the safe operation of the unit.

YES  
Comply? (Yes/No)

4.1.2 Strobe light: Provide strobe lights for the safe operation of the unit.

YES  
Comply? (Yes/No)

**5.0 PAINTING:** All exterior mounted components furnished by the supplier shall be painted to match the carrier. The complete excavator device shall have a finished suitable for long-term exposure to the Florida environment. Supplier will warrant against rusting, except were scratched through to bare metal, for a period of three (3) years. The paint system shall include the following steps, as a minimum:

1. All surfaces shall be ground smooth with welding slag, burrs and sharp edges removed.
2. All surfaces shall be sandblasted to white metal and then immediately receive one (1) coat of rust inhibitive primer.
3. All primed surfaces shall receive two (2) coats of premium grade automotive enamel to match Yellow # 13538 of Federal Standard 595. Cargo area and top of body compartments to be painted with non-skid paint. All primed surfaces shall receive two (2) coats of premium grade automotive enamel to match DOT Yellow (DuPont Centari L9069A, Freightliner 3258, GM 86, International 4421).
4. All exposed hydraulic cylinder piston rods shall be covered to prevent overspray contact during painting.

YES  
Comply? (Yes/No)

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: FC2011Truck Mounted Excavator Large  
Unit of Equipment: Truck Mounted Excavator Large

**6.0 CONDITIONS:** Terms and conditions set forth in the bid documents will overrule this specification when there is disagreement between the specification and bid documents.

## 6.1 DELIVERY AND ACCEPTANCE:

**6.1.1** Regardless of the destination specified on the Purchase Order, the first item procured under this specification shall be delivered to the FDOT Midway Maintenance yard at 17 Commerce Boulevard, Midway Fl. 32343. 0.1 mile north of I-10 and Highway 90 west, Tallahassee, Florida. The person(s) named at the end of this specification listed on the purchase order shall be notified of this delivery 7-10 calendar days in advance. Following delivery, the unit will be thoroughly inspected for compliance with these specifications. Items found to not comply will be corrected by supplier and brought into compliance before final acceptance. The unit will then be taken by the supplier to the Purchase Order destination. All subsequent units will be inspected under the same terms at their Purchase Order destinations.

YES  
Comply? (Yes/No)

**6.1.2** Failure of FDOT personnel to discover defects during an inspection does not relieve the vendor from responsibility for correcting areas of non-compliance found after delivery on the inspected unit.

YES  
Understand and Acknowledge? (Yes/No)

**6.1.3 PREPARATION FOR DELIVERY:** The unit shall be properly serviced, clean, and in first class operating condition upon delivery. Pre-delivery service shall include, but not limited to, the following:

- a) Complete lubrication of operating mechanisms with OEM recommended lubricants.
- b) Check of all fluid levels and adjustments as required.
- c) Thorough cleaning of device and removal of all unnecessary tags, stickers, etc.
- d) Perform front end alignment upon completed assembly of unit.

YES  
Comply? (Yes/No)

## 6.2 STANDARDS:

**6.2.1** The unit shall comply with all Motor Vehicle Safety Standards as established by the U. S. Department of Transportation, all safety requirements of the latest issues of ANSI Standards and OSHA Standards, and all other Federal and State of Florida legal requirements and safety standards.

YES  
Comply? (Yes/No)

# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: **FC2011Truck Mounted Excavator Large**  
Unit of Equipment: **Truck Mounted Excavator Large**

## 6.3 DOCUMENTATION:

6.3.1 Bidders must submit two (2) copies of the current manufacturer's data to substantiate compliance with the specifications, and a list of dealers in or near Florida.

YES  
Comply? (Yes/No)

## 6.4 MANUALS:

6.4.1 The vendor will provide two (2) manufacturer's operator manuals and two (2) lubrication/maintenance manuals and two (2) repair/parts manuals to be delivered with each unit.

YES  
Comply? (Yes/No)

6.4.2 The vendor shall ensure that all service bulletins, recall notices, and/or other service or maintenance information for the reasonable life of the machines supplied are sent to the FDOT shop to which the machines are assigned.

YES  
Comply? (Yes/No)

6.4.3 The vendor will provide a checklist for periodic preventive maintenance suitable for reproduction on 8 ½ inch by 11-inch paper.

YES  
Comply? (Yes/No)

6.4.4 The vendor will provide a copy of all warranty (or warranties) information applicable to this unit.

YES  
Warranty information compliance? (Yes/No)

## 7.0 TRAINING:

### 7.1 PERSONNEL TRAINING:

7.2.1 The services of a factory technician or technicians, thoroughly trained in the use and operation of the unit, shall be furnished to instruct personnel in the use, operation, and maintenance of the unit after delivery. This is to be done at the delivery location on the Purchase Orders.

YES  
Comply? (Yes/No)



# FLORIDA DEPARTMENT OF TRANSPORTATION EQUIPMENT SPECIFICATION

Specification Number: FC2011Truck Mounted Excavator Large  
Unit of Equipment: Truck Mounted Excavator Large

## 8.0 WARRANTY:

8.1 The vendor shall warrant all components of its manufacture and design for a minimum of two (2) years following the date of acceptance and will replace with the FDOT any part found to be faulty in manufacture, design, or workmanship. The warranty shall include parts and labor for the first year at the delivery location or at the supplier's service location in Florida, at the option of the FDOT. After one (1) year, labor will be included only at the vendor's service location.

YES  
Comply? (Yes/No)

8.2 Components not of the vendor's design and manufacture, except for the carrier, are subject to the OEM warranty. In any case all warranties must be for at least one (1) year. Dates of warranties are to be the date of acceptance by FDOT. The successful bidder shall act as FDOT's agent regarding any warranty claim on OEM warranted components.

YES  
Comply? (Yes/No)

## 9.0 OPTIONS:

9.1 May or may not be purchased at discretion of the FDOT. Option price may be considered as basis of award. It is recognized that not all bidders offer all options listed; there is no penalty for not bidding an option. It is also recognized that some bidders may offer optional features which are standard equipment with others. The FDOT will make every reasonable effort to evaluate bids based on comparable equipment. List all prices and deliveries cost that apply on the price sheet.

YES  
Understand and Acknowledge? (Yes/No)

NOTE: Specification problems, questions, or comment:  
Problems, questions, or comments regarding this specification must be submitted to the Procurement Office in writing a minimum of 10 days prior to bid opening.

Procurement Agent  
Florida Department of Transportation  
605 Suwannee Street, MS 20  
Tallahassee, Florida 32399-0450

YES  
Understand and Acknowledge? (Yes/No)

## Model Options

### XL4100 V 6X6 -

#### Upperstructure

80365046	2.5 # Cab Mounted Fire Extinguisher	\$196.00
80769129	Amber Strobes (2) Mounted on Posts on each side of Counterweight	\$2,340.00
80769095	Amber/White Mini-Strobe Light Bar	\$925.00
80729002	Aux Tube Adapter	\$2,691.00
80769125 & 80769076	Beacon Light - "GREEN" -LED- Upper - w/Branch Guard	\$1,352.00
80769125	Beacon Light- "GREEN" -LED- Upper - w/o Branch Guard	\$1,163.00
80769025 & 80769076	Beacon Light -LED- Upper - w/Branch Guard	\$1,091.00
80769025	Beacon Light-LED- Upper - w/o Branch Guard	\$902.00
80769143 & 80769076	Bracket Mounted Beacon Light - LED-Upper w/Branch Guard	\$1,091.00
80769092	Camera System - Upper - Split Screen	\$3,250.00
80739033	Case Drain	\$3,499.00
	Case Drain hosing for 8' Boom Extension	\$750.00
	CE Certification Documents	\$0.00
80465068	Cigarette Lighter - Upper	\$25.00
80739025	Cylinder Spool for Aux Hydraulics	\$500.00
80789081	Dual Note Electrical Horn	\$200.00
80505005	Escape Hammer	\$163.00
80865008	Fire Extinguisher 10# - Upper	\$568.00
80483281	First Aid Kit	\$193.00
80765083	Foot Pedal Operated Auxiliary Hydraulics - Uni-Directional Flow	\$640.00
80365084	Front Window Guard (Hinged) - Upper Cab	\$3,841.00
80769077	Front Window Guard (Rigid)- Upper Cab	\$2,151.00
80769127	HALO Lighting	\$1,540.00
80769131	Heated Mirrors - Upper	\$495.00
80509037	Heated Mirrors - Wiring Only - Remote Directional Control - Upper	\$295.00
80465083	Hourmeter In Upper Cab	\$300.00
80735010	Low Pressure Aux. Return To Tank	\$600.00
80769083	Lube Chart - Upper, Permanent Outside & Visible	\$380.00
	Paint, Special, One Color, Including Cabs (Please Provide RAL # to factory)	\$7,150.00
80769037	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Upper	\$586.00
80865015	Quick Disconnect Installation	\$963.00
80789241	Red Reflective Counterweight Conspicuity Stripes	\$1,092.00
82175006	Rexroth Bodas Software & Cable Kit	\$1,931.00
80763161	ROPs Integrated Upper Cab	\$2,500.00
80785042	Seat Belt Upper w/Shoulder Restraint	\$320.00
80465058	Sun Visor - Upper Cab	\$866.00
80763114	Vandal Cover - Upper Cab	\$3,251.00
	<b>Chassis</b>	
80789075	Power Supply W/ Cigarette Lighter Socket Type 12V - Chassis	\$523.00
80789108	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Chassis	\$526.00
80783297	315 HP Engine with Engine Brake	\$8,500.00
80385167	Air Restriction Gauge - Chassis Cab - " The Informer "	\$310.00
X3105065	Air Restriction Gauge - Chassis Cab (Note: Drawing Needs Revised)	\$310.00
80789070	AM/FM Stereo Radio With Weatherband - Chassis	\$766.00
80483243	Battery - Interstate Optima - Maintenance Free - Spiral Wound Cells	\$600.00
80789216 & 80769076	Beacon Light -"GREEN" -LED - Chassis - w/Branch Guard	\$1,352.00
80789216	Beacon Light- "GREEN" -LED- Chassis - w/o Branch Guard	\$1,163.00
80789180 & 80769076	Beacon Light -LED - Chassis - w/Branch Guard	\$1,091.00
80789180	Beacon Light-LED- Chassis - w/o Branch Guard	\$902.00
80789068	Bucket Carrier Assembly	\$2,617.00
80769059	Camera System - Chassis	\$2,175.00
80783411	DEF Tank Cap - Locking w/Key	\$150.00
80789081	Dual Note Electrical Horn	\$200.00
80385171	Emergency Kit - Flares & Triangles	\$206.00
80505006	Escape Hammer	\$163.00
80789080	Fire Extinguisher 10# - Chassis With Cover	\$304.00
80789071	Heated Mirrors - Chassis	\$1,550.00
80789062	Intermittent Wiper Switch - Chassis	\$441.00
80485043	Left Hand Rear Step	\$692.00
80789188	License Plate Bracket - Front & Rear Lit	\$300.00
80885029	License Plate Brackets - Rear Lit - Front Unlit	\$340.00

80789082	Lighted Front License Plate Bracket	\$247.00
80789116	Lights 8 LED Flashing 24V - All 4 Corners	\$4,482.00
80789178	Lube Chart - Chassis, Permanent Outside & Visible	\$380.00
80385185	Mud Flaps - Plain (No Logo)	\$540.00
80789203	Outrigger / Stabilizer Option - Rear	\$27,508.00
80385057	Protecto - Seal Locking Fuel Cap W/ Key	\$200.00
80785042	Seat Belt Chassis w/Shoulder Restraint	\$320.00
80785208	Spare Front Tire / Wheel Assembly	\$2,072.00
80785134	Spare Rear Tire / Wheel Assembly, Goodyear - 11R/24.5	\$1,249.00
80789158	Spark Arrestor	\$1,270.00
80789201	Special (4) Four Point Lifting Provisions	\$2,500.00
80385147	Tilt Steering Column - Chassis	\$1,053.00
80785044	Travel Alarm - Adjustable Volume	\$260.00
80789077	Twin Air Horns - Chassis	\$500.00
80783250	Vandal Cover Installation - Chassis	\$2,300.00
80705007	Wheel Lug Wrench Set	\$200.00
<b>Attachments</b>		
06200561	48" Saber Saw Blade Kit	\$4,475.00
06200897	50" Tiger Flail Mower	\$12,545.00
06102600	50" Tiger Rotary Mower	\$13,355.00
80656037	Attachment Adapter - Blank	\$1,300.00
80655036	Aux. Hyd. Hoses For 12 Ft. Boom Extension	\$1,590.00
80655033	Aux. Hyd. Hoses For 4 Ft. Boom Extension	\$1,330.00
80655034	Aux. Hyd. Hoses For 6 Ft. Boom Extension	\$1,604.00
80655035	Aux. Hyd. Hoses For 8 Ft. Boom Extension	\$1,490.00
80755034	Boom Extension - 7' Adjustable Angle	\$24,917.00
80655028	Boom Extension - 4 Ft. w/o Aux Hoses	\$12,438.00
80655029	Boom Extension - 6 Ft. w/o Aux. Hoses	\$12,820.00
80655030	Boom Extension - 8 Ft. w/o Aux Hoses	\$13,778.00
80455049	Bucket - Ditching - 24" w/Bolt on Cutting Edge	\$4,394.00
80656040	Bucket - Ditching - 30"	\$3,807.00
80656058	Bucket - Ditching - 48"	\$5,297.00
80655037	Bucket - Ditching - 48" w/ Bolt On Cutting Edge	\$6,612.00
80656007	Bucket - Ditching - 60"	\$5,273.00
80656034	Bucket - Ditching - 60" Constant Radius	\$5,500.00
80656092	Bucket - Ditching - 60" w/Bolt On Cutting Edge	\$5,971.00
80656006	Bucket - Ditching - 66" Constant Radius	\$5,599.00
80656093	Bucket - Ditching - 66" w/Bolt On Cutting Edge	\$6,297.00
80656002	Bucket - Ditching - 72"	\$6,193.00
80656094	Bucket - Ditching - 72" W/ Bolt On Cutting Edge	\$6,740.00
80656132	Bucket - Dredging - 60"	\$8,068.00
80656013	Bucket - Dredging - 72"	\$8,297.00
80556011	Bucket - Dredging Bucket 60" for Telestick	\$7,240.00
80456020	Bucket - Excavating - 24"	\$4,589.00
80656065	Bucket - Excavating - 24" w/o Teeth	\$3,788.00
80456021	Bucket - Excavating - 30"	\$4,939.00
80456022	Bucket - Excavating - 36"	\$5,398.00
X4106093	Bucket - Excavating - 36" w/5 Teeth	\$5,760.00
80656086	Bucket - Excavating - 36" w/o Teeth	\$4,749.00
80456023	Bucket - Excavating - 42"	\$5,831.00
80656064	Bucket - Excavating - 42" w/o Teeth	\$5,233.00
80456024	Bucket - Excavating - 48"	\$6,298.00
80656115	Bucket - Pavement Removal - 18" (Curbing)	\$6,855.00
80656116	Bucket - Pavement Removal - 24" (Curbing)	\$8,474.00
80656114	Bucket - Pavement Removal - 28"	\$8,835.00
80656102	Bucket - Pavement Removal - 40"	\$11,567.00
80656119	Bucket - Pavement Removal - 48"	\$12,233.00
80656104	Bucket - Trenching - 15"	\$6,655.00
80656012	Bucket - Trenching - 21"	\$7,310.00
80753044	Chisel Bit for Rammer Hammer	\$1,183.00
80755023	Fixed Thumb Grapple	\$11,130.00
80656024	Grading Blade - 8 Ft.	\$4,691.00
80656035	Guardrail Clean-Out	\$6,469.00
80455052	Limb Shear	\$14,398.00
80759012	Rammer Hammer 999 Installation - Bucket Adapter to include 80729002 Aux. Tube Guards	\$32,300.00
80756038	Ripper - Single Tooth - Bucket Adapter Style	\$4,570.00
80789105	Telestick Boom Extension w/Boom Rest (80785122) & (80456013)	\$45,324.00

XL 4100

80759020	60" Bucket	
<b>Manual Instructions</b>	Tiger Growler Mulcher 36"	\$22,163.00
_____	Complete set of Service Training Manual	\$500.00
_____	Complete set of Volvo overhaul Manuals	\$500.00
_____	Extra Set Of Keys (4): (2) 77384578 Ignition & (2) 91144470 Door & Covers	\$20.00
Manuals	Printed Set Of Parts, Service & Operator's Manuals	\$260.00

XZ

**XL5100 V 6x6**

**Upperstructure**

80365046	2.5 # Cab Mounted Fire Extinguisher	\$196.00
80729002	Aux Tube Adapter	\$2,691.00
80769125 & 80769076	Beacon Light - "GREEN" -LED- Upper - w/Branch Guard	\$1,352.00
80769125	Beacon Light- "GREEN" -LED- Upper - w/o Branch Guard	\$1,163.00
80769025 & 80769076	Beacon Light -LED- Upper - w/Branch Guard	\$1,091.00
80769025	Beacon Light-LED- Upper - w/o Branch Guard	\$902.00
80769143 & 80769076	Bracket Mounted Beacon Light - LED-Upper w/Branch Guard	\$1,091.00
80769092	Camera System - Upper - Split Screen	\$3,250.00
80539002	Case Drain	\$3,198.00
	CE Certification Documents	\$0.00
80465068	Cigarette Lighter - Upper	\$25.00
80739025	Cylinder Spool for Aux. Hydraulics	\$500.00
80789081	Dual Note Electrical Horn	\$200.00
80505005	Escape Hammer	\$163.00
80865008	Fire Extinguisher 10# - Upper	\$568.00
80483281	First Aid Kit	\$193.00
80765083	Foot Pedal Operated Auxiliary Hydraulics - Uni-Directional Flow	\$640.00
80365084	Front Window Guard (Hinged) - Upper Cab	\$3,841.00
80769077	Front Window Guard (Rigid)- Upper Cab	\$2,151.00
80769127	HALO Lighting	\$1,540.00
80769131	Heated Mirrors - Upper	\$495.00
80509037	Heated Mirrors - Wiring Only - Remote Directional Control - Upper	\$295.00
80465083	Hourmeter In Upper Cab	\$300.00
80735010	Low Pressure Aux. Return To Tank	\$600.00
80769083	Lube Chart - Upper, Permanent Outside & Visible	\$380.00
	Paint, Special, One Color, Including Cabs (Please Provide RAL # to factory)	\$7,150.00
80769037	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Upper	\$586.00
80865015	Quick Disconnect Installation	\$963.00
82175006	Rexroth Bodas Software & Cable Kit	\$1,931.00
80763161	ROPs Integrated Upper Cab	\$2,500.00
80785042	Seat Belt Upper w/Shoulder Restraint	\$320.00
80465058	Sun Visor - Upper Cab	\$866.00
80763114	Vandal Cover - Upper Cab	\$3,251.00
<b>Chassis</b>		
80789075	Power Supply W/ Cigarette Lighter Socket Type 12V - Chassis	\$523.00
80789108	Power Supply Wire End Terminals For Power & Ground 12VDC (20 Amp) - Chassis	\$526.00
80385167	Air Restriction Gauge - Chassis Cab - " The Informer "	\$310.00
X3105065	Air Restriction Gauge - Chassis Cab (Note: Drawing Needs Revised)	\$310.00
80789070	AM/FM Stereo Radio With Weatherband - Chassis	\$766.00
80483243	Battery - Interstate Optima - Maintenance Free - Spiral Wound Cells	\$600.00
80789216 & 80769076	Beacon Light -"GREEN" -LED - Chassis - w/Branch Guard	\$1,352.00
80789216	Beacon Light- "GREEN" -LED- Chassis - w/o Branch Guard	\$1,163.00
80789180 & 80769076	Beacon Light -LED - Chassis - w/Branch Guard	\$1,091.00
80789180	Beacon Light-LED- Chassis - w/o Branch Guard	\$902.00
80789068	Bucket Carrier Assembly	\$2,617.00
80769059	Camera System - Chassis	\$2,175.00
80783411	DEF Tank Cap - Locking w/Key	\$150.00
80789081	Dual Note Electrical Horn	\$200.00
80385171	Emergency Kit - Flares & Triangles	\$206.00
80505006	Escape Hammer	\$163.00
80789080	Fire Extinguisher 10# - Chassis With Cover	\$304.00
80789071	Heated Mirrors - Chassis	\$1,550.00
80789062	Intermittent Wiper Switch - Chassis	\$441.00
80485043	Left Hand Rear Step	\$692.00
80789188	License Plate Bracket - Front & Rear Lit	\$300.00
80885029	License Plate Brackets - Rear Lit - Front Unlit	\$340.00
80789082	Lighted Front License Plate Bracket	\$247.00
80789116	Lights 8 LED Flashing 24V - All 4 Corners	\$4,482.00
80789178	Lube Chart - Chassis, Permanent Outside & Visible	\$380.00
80789203	Outrigger / Stabilizer Option - Rear	\$27,508.00
80385057	Protecto - Seal Locking Fuel Cap W/ Key	\$200.00
80785042	Seat Belt Chassis w/Shoulder Restraint	\$320.00
80785208	Spare Front Tire / Wheel Assembly	\$2,072.00
80785134	Spare Rear Tire / Wheel Assembly, Goodyear - 11R/24.5	\$1,249.00

80789158	Spark Arrestor	\$1,270.00
80385147	Tilt Steering Column - Chassis	\$1,053.00
80785044	Travel Alarm - Adjustable Volume	\$260.00
80789077	Twin Air Horns - Chassis	\$500.00
80783250	Vandal Cover Installation - Chassis	\$2,300.00
80705007	Wheel Lug Wrench Set	\$200.00
<b>Attachments</b>		
06200561	48" Saber Saw Blade Kit	\$4,475.00
06200897	50" Tiger Flail Mower	\$12,545.00
06102600	50" Tiger Rotary Mower	\$13,355.00
80656037	Attachment Adapter - Blank	\$1,300.00
80655036	Aux. Hyd. Hoses For 12 Ft. Boom Extension	\$1,590.00
80655033	Aux. Hyd. Hoses For 4 Ft. Boom Extension	\$1,330.00
80655034	Aux. Hyd. Hoses For 6 Ft. Boom Extension	\$1,604.00
80655035	Aux. Hyd. Hoses For 8 Ft. Boom Extension	\$1,490.00
80755034	Boom Extension - 7' Adjustable Angle	\$24,917.00
80655031	Boom Extension - 12 Ft. w/o Aux. Hoses	\$15,978.00
80655028	Boom Extension - 4 Ft. w/o Aux Hoses	\$12,438.00
80655029	Boom Extension - 6 Ft. w/o Aux. Hoses	\$12,820.00
80655030	Boom Extension - 8 Ft. w/o Aux Hoses	\$13,778.00
80455049	Bucket - Ditching - 24" w/Bolt on Cutting Edge	\$4,394.00
80656040	Bucket - Ditching - 30"	\$3,807.00
80656058	Bucket - Ditching - 48"	\$5,297.00
80655037	Bucket - Ditching - 48" w/ Bolt On Cutting Edge	\$6,612.00
80656007	Bucket - Ditching - 60"	\$5,273.00
80656034	Bucket - Ditching - 60" Constant Radius	\$5,500.00
80656092	Bucket - Ditching - 60" w/Bolt On Cutting Edge	\$5,971.00
80656006	Bucket - Ditching - 66" Constant Radius	\$5,599.00
80656093	Bucket - Ditching - 66" w/Bolt On Cutting Edge	\$6,297.00
80656002	Bucket - Ditching - 72"	\$6,193.00
80656094	Bucket - Ditching - 72" W/ Bolt On Cutting Edge	\$6,740.00
80656132	Bucket - Dredging - 60"	\$8,068.00
80656013	Bucket - Dredging - 72"	\$8,297.00
80556011	Bucket - Dredging Bucket 60" for Telestick	\$7,240.00
80456020	Bucket - Excavating - 24"	\$4,589.00
80656065	Bucket - Excavating - 24" w/o Teeth	\$3,788.00
80456021	Bucket - Excavating - 30"	\$4,939.00
80456022	Bucket - Excavating - 36"	\$5,398.00
X4106093	Bucket - Excavating - 36" w/5 Teeth	\$5,760.00
80656086	Bucket - Excavating - 36" w/o Teeth	\$4,749.00
80456023	Bucket - Excavating - 42"	\$5,831.00
80656064	Bucket - Excavating - 42" w/o Teeth	\$5,233.00
80456024	Bucket - Excavating - 48"	\$6,298.00
80656115	Bucket - Pavement Removal - 18" (Curbing)	\$6,855.00
80656116	Bucket - Pavement Removal - 24" (Curbing)	\$8,474.00
80656114	Bucket - Pavement Removal - 28"	\$8,835.00
80656102	Bucket - Pavement Removal - 40"	\$11,567.00
80656119	Bucket - Pavement Removal - 48"	\$12,233.00
80656104	Bucket - Trenching - 15"	\$6,655.00
80656012	Bucket - Trenching - 21"	\$7,310.00
80755023	Fixed Thumb Grapple	\$11,130.00
80656024	Grading Blade - 8 Ft.	\$4,691.00
80656035	Guardrail Clean-Out	\$6,469.00
80455052	Limb Shear	\$14,398.00
80759012	Rammer Hammer 999 Installation - Bucket Adapter to include 80729002 Aux. Tube Guards	\$32,300.00
80756038	Ripper - Single Tooth - Bucket Adapter Style	\$4,570.00
80559002	Telestick Boom Extension w/Boom Rest ( 80785122 ) & (80456013)	\$48,334.00
80759020	60" Bucket	\$22,163.00
80759020	Tiger Growler Mulcher 36"	\$22,163.00
<b>Manual Instructions</b>		
	Complete Set of Overhaul / Engine Manuals	\$500.00
	Extra Set Of Keys (4): (2) 77384578 Ignition & (2) 91144470 Door & Covers	\$20.00
Manuals	Printed Set Of Parts, Service & Operator's Manuals	\$260.00

# GRADALL<sup>®</sup>

## XL 4100

HYDRAULIC EXCAVATOR



## SPECIFICATIONS

### Engine

- Volvo TAD871VE Tier 4f 7.7L diesel with selective catalytic reduction and cooled EGR technology
- Gross Rating:** 248 hp @ 2200 rpm, 848 ft lb torque @ 1200-1400 rpm
- Net Rating:** 228 hp @ 2200 rpm
- Four cycle, inline six cylinder, liquid cooled
- Turbo charge air after-cooled
- Off-road certified, electronically controlled, grid heater
- Vertical canister style lube and main filters attached to engine
- Volvo remote mount vertical style fuel/water separator with water in fuel indicator, alarm and manual feed pump
- Block heater

### Air Filter

- Two-stage Donaldson PSD PowerCore with high efficiency pre-cleaner, vacuator valve and remote service indicator

### Electrical System

- 24 volt, 110 amp alternator with integral voltage regulator, two SAE #C31-S 1000 CCA batteries

**Fuel Tank Capacity:** 100 gal (378 L)

**Urea Tank Capacity:** 11.9 gal (45 L)

### Chassis Cooling Package

- Three aluminum bar-plate type coolers stacked vertically
- Air to air intake charge air cooler, radiator and transmission cooler
- All coolers backed by a molded fan shroud, engine mounted fan ring and 26.8" 9-blade fan driven by a Volvo electronically controlled variable speed fan drive

### Gear Speeds

Gear	1	2	3	4	5	6	REV
MPH	6.3	16.2	24.1	37.4	50.6	59.9	6.6
Km/hr	(10.1)	(26.1)	(38.8)	(60.2)	(81.4)	(96.4)	(10.6)

### Drivelines

- Spicer 1710 Series with "half round" yokes

### Transfer Case

- (6 x 4) Cushman Model 479-1, 1:1 ratio, pneumatic engage for remote propel
- (6 x 6) Cushman Model 479A-1, 1:1 ratio, pneumatic engage for remote propel and front drive

### Upperstructure Cab

- All-weather cab isolated from frame on rubber mounts
- Tinted safety glass windows
- Skylight
- Acoustical lining
- Four-way adjustable seat
- Dome light
- Filtered air heater and defroster
- AM/FM radio
- Air conditioning
- LED work light package
- Heat source provided by a fast response, closed circuit hydraulic heater with 20,000 BTU/Hr. capacity
- Front window slides to overhead storage
- Mirrors on right and left sides
- Windshield wiper and washer
- Operator's seat belt

### Upperstructure Controls

- Two electronic joysticks (hoist and bucket, telescope and swing)
- One rocker switch (tilt) control
- Joysticks mounted on arm pods, adjustable for individual operator comfort and convenience
- Quick change joystick pattern switch (Gradall, SAE, Deere) located on instrument panel
- Two foot pedals for remote control of undercarriage steering
- Travel and digging brakes
- Self-centering joysticks and pedals; when controls are released, power for movement disengages and swing and travel brakes set automatically

### Engine Controls:

- Key ignition switch with neutral start
- Indicator lights for low air, engine status, park brake, travel status, hydraulic fluid temperature and level
- Automatic engine shutdown occurs with low oil pressure
- Derate/shutdown for oil temperature, coolant temperature, coolant level, ERD temperature, charge air temperature, charge air pressure and derate for SCR temperature

### Boom

- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 220° boom tilt
- 105° boom pivot angle
- Auxiliary hydraulics

### Hydraulic System

#### Pumps

- One load-sensing axial piston pump, 0-77 gpm (0-291 L/min) total
- One gear pump (pilot and cooling), 11 gpm (41 L/min)

### SYSTEM SPECIFICATIONS

#### Four Double Acting Cylinders

- One boom cylinder: 3.5" (89 mm) bore x 2.56" (65 mm) rod x 150" (3.81 m) stroke
- Two hoist cylinders: 4.25" (108 mm) bore x 3.15" (80 mm) rod x 31" (787 mm) stroke
- One tool cylinder: 5.0" (127 mm) bore x 3.0" (76 mm) rod x 25.9" (658 mm) stroke

#### Three Hydraulic Motors

- Swing, 64 hp (48 kW)
- Tilt, 21 hp (16 kW)
- Remote drive, 110 hp (82 kW) total

#### Operating Pressures

- Hoist..... 4,800 psi (331 BAR)
- Tilt ..... 2,500 psi (172 BAR)
- Swing ..... 4,200 psi (290 BAR)
- Tool ..... 4,800 psi (331 BAR)
- Telescope ..... 4,800 psi (331 BAR)
- Remote Propel ..... 4,800 psi (331 BAR)
- Pilot system..... 500 psi (35 BAR)

#### Oil Capacity

- Reservoir 50 gallons (189 L)
- System 70 gallons (265 L)
- Pressurized reservoir with visual oil level gauge

#### Filtration System

- 5 micron return filter with magnet
- 10 micron pilot filter
- Fin and tube-type oil cooler with thermostatically controlled cooling fan
- Pressure-compensated, load-sensing valves with circuit reliefs in all circuits

## Undercarriage

- 6 x 4 or 6 x 6
- Wheelbase: 171" (4.34m)
- Width 102" (2.6m)

### Transmission

- Allison 3500 RDS 6-speed automatic

### Frame

- 48" (1.2m) wide, welded plate design
- 65 ksi material

### Gross Vehicle Axle Weight Rating:

- 6 x 4 - 68,740 lb (31,180 kg)
- 6 x 6 - 69,000 lb (31,928 kg)

### Front Axles

- 6 x 4: Meritor Model MFS-16-122A, 16,000 lb (7,257 kg) rating
- 6 x 6: Meritor Model MX19-145, 19,000 lb (8,618 kg) rating, 7.17 ratio

### Rear Axle

- Meritor Model RT-50-160, 50,000 lb (22,680 kg) rating, 7.17 ratio
- Single reduction with driver controlled differential lock in front/rear
- Inter-axle differential with lock

### Suspension

- Front: Eight leaf spring with automatic lock-out cylinders
- Rear: Hendrickson Equalizer Beam, 8" oscillation

### Brakes

- 6 x 4 Front: Meritor "Q" Plus Series
  - Cam-Master Size: 16.5" x 5" (419 mm x 152 mm)
  - Automatic slack adjusters
- 6 x 6 Front: Meritor "Q" Series
  - Cam-Master Size: 16.5" x 6" (419 mm x 127 mm)
  - Automatic slack adjusters
- Rear: Meritor "P" Series
  - Cam-Master Size: 16.5" x 7" (419 mm x 178 mm)
  - Automatic slack adjusters
- Spring brake system incorporates emergency and parking brakes on rear axle
- Heated air dryer

### Steering

- Ross, integral hydraulic power steering
- Gear-type power steering pump
- Four-quart power steering reservoir with filter
- 10 micron pre-filter

### Wheels

- Hub piloted disc
- 10-stud, 11.25" (286 mm) bolt circle

### Tires

- 6 x 4 front: 385/65R22.5 LR (J) on/off highway tread
- 6 x 6 front: 425/65R22.5 LR (L) on/off highway tread
- 6 x 4 and 6 x 6 rear: 11R24.5 LR (H) on/off highway tread

### Standard Chassis Equipment

- LED headlights
- LED tail lights
- LED back-up lights and alarm
- LED brake lights
- LED identification lights front and rear
- LED directional lights
- LED four-way hazard lights
- Instrument panel lights
- Windshield wiper/washer
- West Coast style mirror system with plain and convex mirrors
- Front and rear tow hooks
- Desiccant type air dryer with automatic purge valve and thermostatically controlled heater

## Chassis Cab

- One-person cab
- Left-hand mount
- Isolated from frame on rubber mounts
- Acoustical lining
- Sun visor
- Air conditioning

### Gauge Clusters

- Oil pressure
- Coolant temperature
- Air tank pressures
- Fuel level
- DEF level

- Voltmeter
- Speedometer with odometer
- Tachometer with hour meter
- Engine and transmission monitor lights
- Engine shutdown controlled by engine electronics
- Indicator lights and controls for front axle engagement (6 x 6 only) and rear axle differential lock
- Park brake control
- Tinted safety glass
- Sliding side windows
- Fresh air heater and defroster
- Dome light
- Air suspension seat with seat belt
- Vent in door

## Swing

- Internal swing gear
- Priority swing circuit with axial piston motor
- Planetary transmission

**Swing Speed:** 8.0 rpm

### Swing Brake:

- Automatic spring-set/hydraulic release wet disc parking brake
- Dynamic braking provided by hydraulic system

## Hydraulic Remote Control

- Upperstructure powered by chassis hydraulics through hydraulic motor and transfer case
- Travel and steering pedals in upperstructure cab
- Digging brakes and front axle lockout cylinders set automatically with travel pedal in neutral
- Parking brake controlled by toggle
- Electrically operated alarm mounted on undercarriage signals remote control movement in either direction, reverse movement when driven from undercarriage cab

## Function Forces

**Rated Boom Force:** 21,940 lbs (97.6 kN)

**Rated Bucket Breakout Force:**

24,900 lbs (111kN)

### GRADALL Model XL 4100 V Lift Capacity Over Side or Rear - LBS

LOAD POINT HEIGHT		LOAD RADIUS										
		10' 0" (3.0 m)		15' 0" (4.6 m)		20' 0" (6.1 m)		25' 0" (7.6 m)		Max. radius		
		Over End	Over Side	Over End	Over Side	Over End	Over Side	Over End	Over Side		Over End	Over Side
ABOVE GROUND LEVEL	20' 0" (6.1 m)									23' 5" (7.1m)	4795 (2175)	4795 (2175)
	15' 0" (4.6 m)			9935 (4505)	9935 (4505)	6915 (3135)	6915 (3135)	5030 (2280)	5030 (2280)	25' 10" (7.9m)	4785 (2170)	4785 (2170)
	10' 0" (3.0 m)			11710 (5310)	11400 (5170)	7775 (3525)	7280 (3300)	5520 (2505)	5055 (2295)	27' 0" (8.2m)	4860 (2205)	4420 (2005)
	BOOM LEVEL 8' 8" (2.7 m)			12000 (5445)	11310 (5130)	7920 (3590)	7235 (3280)	5605 (2540)	5030 (2280)	27' 2" (8.3m)	4885 (2215)	4355 (1975)
	5' 0" (1.5 m)			12130 (5500)	11005 (4990)	8065 (3660)	7085 (3215)	5725 (2595)	4940 (2240)	27' 2" (8.3m)	4980 (2260)	4275 (1940)
AT GROUND LEVEL				10750 (4875)	10585 (4800)	7640 (3465)	6865 (3115)	5575 (2530)	4810 (2180)	26' 5" (8m)	5135 (2330)	4390 (1990)
BELOW GROUND LEVEL	5' 0" (1.5 m)	9650 (4375)	9650 (4375)	8590 (3895)	8590 (3895)	6700 (3040)	6670 (3025)			24' 5" (7.5m)	5285 (2395)	4860 (2205)
	10' 0" (3.0 m)	6325 (2870)	6325 (2870)	6565 (2980)	6565 (2980)	5595 (2540)	5595 (2540)			21' 1" (6.4m)	5360 (2430)	5360 (2430)
	15' 0" (4.6 m)	4175 (1895)	4175 (1895)	4940 (2240)	4940 (2240)					15' 2" (4.6m)	4940 (2240)	4940 (2240)

■ Shaded areas are stability rated based on machine with 0 lb. bucket.

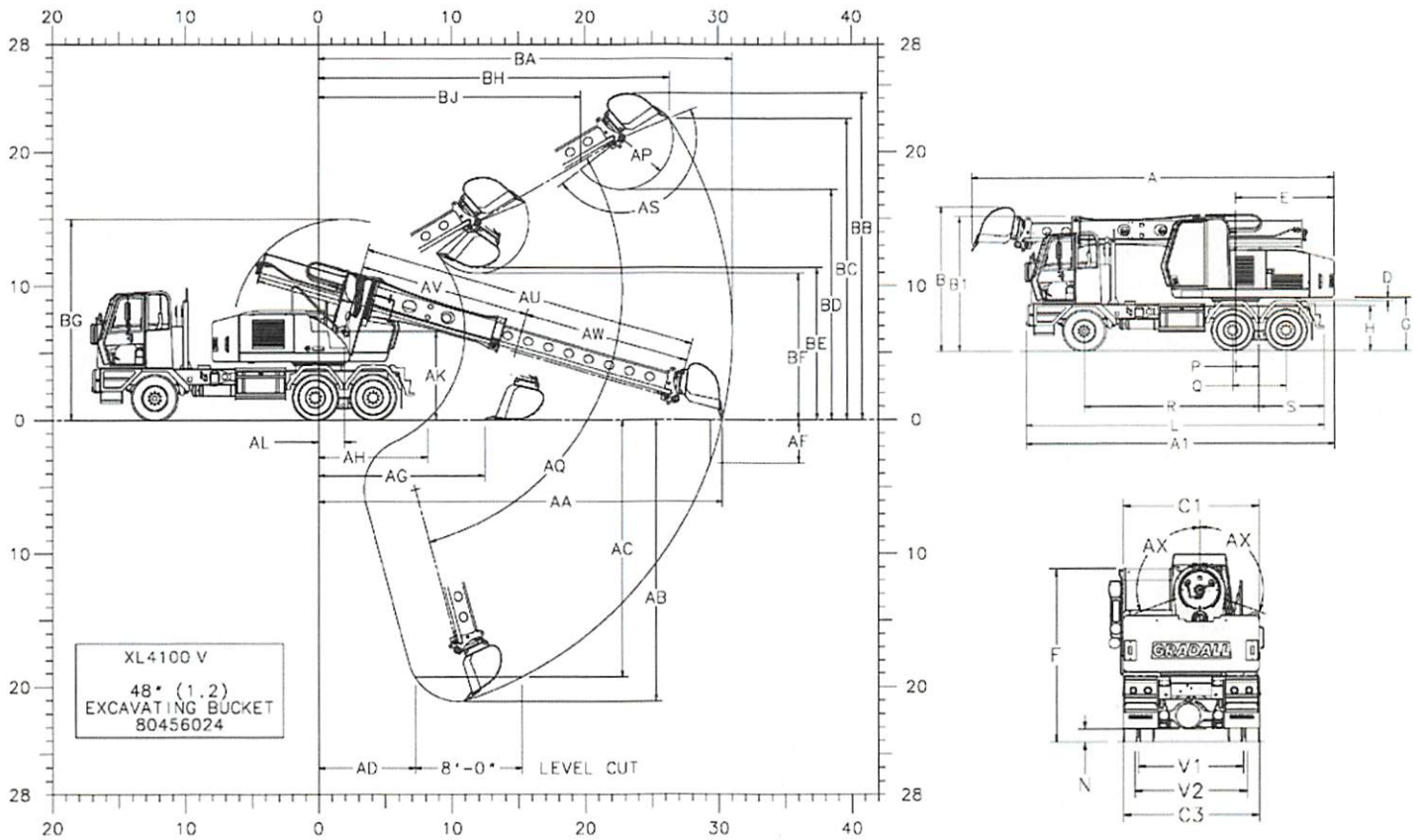
The rated lift capacity is based on the machine being equipped with 8,850 lbs (4014 kg) counterweight, standard boom and no bucket.

The load point is located on the bucket pivot point, including load listed for maximum radius.

Do not attempt to lift or hold any load greater than these rated values at specified load radii and heights. The weight of slings and any auxiliary devices must be deducted from the rated load to determine the net load that may be lifted.

**ATTENTION:** All rated loads are based on the machine being stationary and level on a firm supporting surface. For safe working loads, the user must make allowance for his particular job conditions such as soft or uneven ground, out of level conditions, side loads, hazardous conditions, experience of personnel, etc. The operator and other personnel must be fully trained and understand the Operator's Manual and Safety Manuals furnished by the manufacturer before operating this machine. Rules for safe operation of equipment must be adhered to at all times.





## Dimensions

6 x 4		6 x 6		6 x 4		6 x 6	
<b>A</b>	29' 6" (9.0m)	29' 6" (9.0m)	Overall length (boom in rack) w/ bucket	<b>AF</b>	3' 3" (1.0m)	3' 3" (1.0m)	Maximum depth of vertical wall which can be excavated
<b>A1</b>	25' 1" (7.6m)	25' 1" (7.6m)	Overall length (boom in rack) w/o bucket	<b>AG</b>	12' 5" (3.8m)	12' 4" (3.8m)	Minimum level cut radius with bucket flat on ground line
<b>B</b>	11' 9" (3.6m)	12' 0" (3.7m)	Overall height (boom in rack) w/ bucket	<b>AH</b>	8' 2" (2.5m)	7' 10" (2.4m)	Minimum radius at ground line
<b>B1</b>	10' 11" (3.3m)	11' 3" (3.4m)	Overall height (boom in rack) w/o bucket	<b>AK</b>	6' 7" (2m)	6' 11" (2.1m)	Boom pivot to ground line
<b>C1</b>	8' 6" (2.6m)	8' 6" (2.6m)	Width of upperstructure	<b>AL</b>	23" (584mm)	23" (584mm)	Boom pivot to axis of rotation
<b>C3</b>	8' 6" (2.6m)	8' 6" (2.6m)	Width of undercarriage	<b>AP</b>	46" (1.2m)	46" (1.2m)	Bucket tooth radius
<b>D</b>	3" (76mm)	3" (76mm)	Minimum clearance, upperstructure to undercarriage	<b>AQ</b>	30° Up & 75° Down	30° Up & 75° Down	Boom pivot angle
<b>E</b>	8' 0" (2.4m)	8' 0" (2.4m)	Swing clearance, rear of upperstructure	<b>AS</b>	165°	165°	Bucket pivot angle
<b>F</b>	10' 10" (3.3m)	11' 1" (3.4m)	Top of cab to ground line	<b>AU</b>	25' 3" (7.7m)	25' 3" (7.7m)	Maximum telescoping boom length (boom pivot to bucket pivot)
<b>G</b>	52" (1.3m)	56" (1.4m)	Clearance, upperstructure to ground line	<b>AV</b>	12' 9" (3.9m)	12' 9" (3.9m)	Minimum telescoping boom length (boom pivot to bucket pivot)
<b>H</b>	44" (1.1m)	48" (1.2m)	Top of wheel mounted under carriage frame to ground line	<b>AW</b>	12' 6" (3.8m)	12' 6" (3.8m)	Telescoping boom travel
<b>L</b>	24' 2" (7.4m)	24' 2" (7.4m)	Overall length of undercarriage	<b>AX</b>	110°	110°	Bucket tilt angle (both sides of center)
<b>N</b>	10" (254mm)	10" (254mm)	Ground clearance (per SAE J1234)	<b>BA</b>	31' 0" (9.5m)	31' 0" (9.5m)	Maximum radius of working equipment
<b>P</b>	22" (564mm)	22" (564mm)	Center of rear tandem to axis of rotation	<b>BB</b>	24' 5" (7.4m)	24' 8" (7.5m)	Maximum height of working equipment
<b>Q</b>	52" (1.3m)	52" (1.3m)	Distance between centers of tandem axles	<b>BC</b>	22' 6" (6.9m)	22' 10" (6.9m)	Maximum bucket tooth height
<b>R</b>	14' 2" (4.3m)	14' 2" (4.3m)	Wheelbase	<b>BD</b>	17' 2" (5.2m)	17' 6" (5.3m)	Minimum clearance of bucket teeth, with bucket pivot at maximum height
<b>S</b>	5' 4" (1.6m)	5' 4" (1.6m)	Center of rear axle to rear of frame (step)	<b>BE</b>	11' 4" (3.5m)	11' 8" (3.6m)	Minimum clearance of fully curled bucket at maximum boom height
<b>V1</b>	6' 7" (2.0m)	6' 7" (2.0m)	Tread, rear axles (285/75R24.5 tires)	<b>BF</b>	10' 11" (3.3m)	11' 3" (3.4m)	Minimum clearance of bucket teeth at maximum boom height
<b>V2</b>	7' 0" (2.1m)	7' 0" (2.1m)	Tread, front axle (385/65R22.5 tires)	<b>BG</b>	15' 0" (4.6m)	15' 3" (4.7m)	Maximum height of working equipment with bucket below ground line
<b>AA</b>	30' 3" (9.2m)	30' 2" (9.2m)	Maximum radius at ground line (165° pivot)	<b>BH</b>	26' 4" (8.0m)	26' 4" (8.0m)	Radius of bucket teeth at maximum height
<b>AB</b>	20' 3" (6.2m)	19' 11" (6.1m)	Maximum digging depth	<b>BJ</b>	19' 8" (6.0m)	19' 8" (6.0m)	Minimum radius of bucket teeth at maximum bucket pivot height
<b>AC</b>	19' 3" (5.9m)	19' 0" (5.8m)	Maximum depth for 8' level cut				
<b>AD</b>	7' 3" (2.2m)	7' 3" (2.2m)	Minimum radius of 8' level cut at depth "AC"				

Specifications subject to change without notice.  
Metric units are meters (m) unless noted.  
Machines shown may have optional equipment.

## Weight

- Approximate working weight, fuel tank half full
  - 6 x 4: 49,684 lbs (22,539 kg)
  - 6 x 6: 50,925 lbs (23,099 kg)

## Optional Equipment

- Vandalism protection kit including window covers
- Strobe light
- Tilt steering column

## Attachments

- Quick change and reversible buckets fabricated using steel plate with high strength, low alloy cutting edges and wear strips
- Standard attachments available for wide range of applications
- Capacities shown are in heaped cubic yard



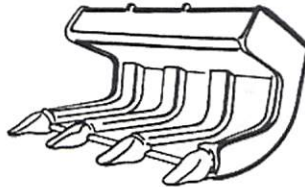
### Excavating Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8045-6020	24" (610mm) 603 lbs (274 kg)	3/8	0.31
8045-6021	30" (762mm) 660 lbs (300 kg)	1/2	0.41
8045-6022	36" (914mm) 741 lbs (336 kg)	5/8	0.54
8045-6023	42" (1.07m) 841 lbs (382 kg)	3/4	0.64
8045-6024	48" (1.22m) 957 lbs (434 kg)	1	0.76



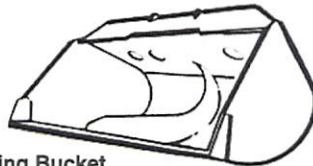
### Trenching Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8065-6104	15" (381mm) 897 lbs (407 kg)	1/5	0.15
8065-6012	21" (533mm) 982 lbs (445 kg)	1/4	0.19



### Pavement Removal Bucket

8065-6102	40" (1.0 m) 1262 lbs (573 kg)
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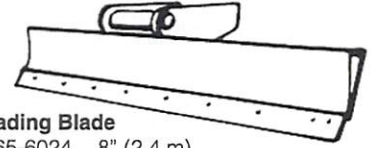
### Ditching Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8065-6007	60" (1.52m) 807 lbs (366 kg)	7/8	0.73
8065-6006	66" (1.68m) 892 lbs (405 kg)	1	0.76
8065-6002	72" (1.83m) 944 lbs (428 kg)	1 1/8	0.87



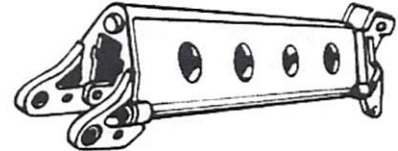
### Dredging Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8065-6013	72" (1.83m) 1114 lbs (505 kg)	1 1/8	0.87



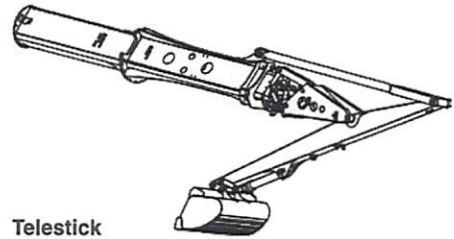
### Grading Blade

8065-6024	8" (2.4 m) 630 lbs (285 kg)
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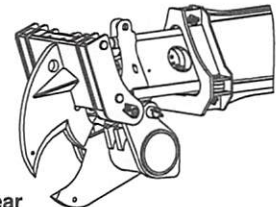
### Boom Extension

8065-5028	4' (1.2 m) 1,090 lbs (495 kg)
8065-5029	6' (1.8 m) 1,250 lbs (560 kg)
8065-5030	8' (2.4 m) 1,389 lbs (631 kg)



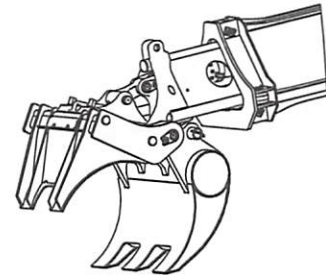
### Telestick

8075-5045	3,600 lbs (1,633 kg)
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### Tree Limb Shear

8045-5052	1,948 lbs (884 kg)
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### Fixed Thumb Grapple

8075-5023	1,574 lbs (714 kg)
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It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.

# GRADALL®

406 Mill Ave. SW, New Philadelphia, Ohio 44663  
Phone: 800-445-4752  
www.Gradall.com

# GRADALL®

## XL 5100 V

HYDRAULIC  
EXCAVATOR



### SPECIFICATIONS

#### Engine

- Volvo TAD873VE Tier 4f 7.7L diesel with selective catalytic reduction and cooled EGR technology

**Gross Rating:** 315 hp @ 2200 rpm, 958 ft lb torque @ 1200-1700 rpm

**Net Rating:** 295 HP @ 2200 RPM.

- Four cycle, inline six cylinder, liquid cooled
- Turbo charge air after-cooled
- Off-road certified, electronically controlled, grid heater
- Vertical canister style lube and main filters attached to engine
- Volvo remote mount vertical style fuel/water separator with water in fuel indicator, alarm and manual feed pump
- Block heater

#### Air Filter

- Two-stage Donaldson PSD PowerCore with high efficiency pre-cleaner, vacuator valve and remote service indicator

#### Electrical System

- 24 volt, 110 amp alternator with integral voltage regulator. two SAE #C31-S 1000 CCA batteries

**Fuel Tank Capacity:** 100 gal (378 L)

**Urea Tank Capacity:** 11.9 gal (45 L)

#### Chassis Cooling Package

- Three aluminum bar-plate type coolers stacked vertically
- Air to air charge air cooler, radiator and a transmission cooler
- All coolers backed by a molded fan shroud, engine mounted fan ring and 26.8" 9-blade fan driven by a Volvo electronically controlled variable speed fan drive

#### Gear Speeds

Gear	1	2	3	4	5	6	REV
MPH	6.3	16.2	24.1	37.4	50.6	59.5	6.4
Km/hr	(10.1)	(26.1)	(38.8)	(60.2)	(81.4)	(95.8)	(10.3)

#### Drivelines

- Spicer 1710 Series with "half round" yokes

#### Transfer Case

- (6 x 4) Cushman Model 479-1, 1:1 ratio, pneumatic engage for remote propel
- (6 x 6) Cushman Model 479A-1, 1:1 ratio, pneumatic engage for remote propel and front drive

#### Upperstructure Cab

- All-weather cab isolated from frame on rubber mounts
- Tinted safety glass windows
- Skylight
- Acoustical lining
- Four-way adjustable seat
- Dome light
- Filtered air heater and defroster
- AM/FM radio
- Air conditioning
- LED work light package
- Heat source provided by a fast response, closed circuit hydraulic heater with 20,000 BTU/Hr. capacity
- Front window slides to overhead storage
- Mirrors on right and left sides
- Windshield wiper and washer
- Operator's seat belt

#### Upperstructure Controls

- Two electronic joysticks (hoist and bucket, telescope and swing)
- One rocker switch (tilt) control
- Joysticks mounted on arm pods, adjustable for individual operator comfort and convenience
- Quick change joystick pattern switch (Gradall, SAE, Deere) located on instrument panel
- Two foot pedals for remote control of undercarriage steering
- Travel and digging brakes
- Self-centering joysticks and pedals; when controls are released, power for movement disengages and swing and travel brakes set automatically

#### Engine Controls

- Key ignition switch with neutral start
- Indicator lights for low air, engine status, park brake, travel status, hydraulic fluid temperature and level
- Automatic engine shutdown occurs with low oil pressure
- Derate/shutdown for oil temperature, coolant temperature, coolant level, ERD temperature, charge air temperature, charge air pressure and derate for SCR temperature

#### Boom

- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 220° boom tilt
- 105° boom pivot angle
- Auxiliary hydraulics

#### Hydraulic System

##### Pumps

- One load-sensing axial piston pump; 0-77 gpm (0-291 41L/min) total
- One gear pump (pilot & cooling) 11 gpm (41 L/min)

##### SYSTEM SPECIFICATIONS

##### Four Double Acting Cylinders

- One Boom Cylinder: 3.75" (95mm) bore x 2.75" (70mm) rod x 168" (4267mm) stroke
- Two Hoist Cylinders: 4.75" (121mm) bore x 3.347" (85mm) rod x 30.5" (775mm) stroke
- One Tool Cylinder: 5.0" (127mm) bore x 3.0" (76mm) rod x 25.9" (658mm) stroke

##### Three Hydraulic Motors

- Swing, 68 Hp (51kW)
- Tilt, 21 Hp (16kW)
- Remote drive, 110 Hp (82kW) total

##### Operating Pressures

- Hoist..... 4,800 psi (331 BAR)
- Tilt ..... 2,500 psi (172 BAR)
- Swing ..... 4,500 psi (310 BAR)
- Tool ..... 4,800 psi (331 BAR)
- Telescope ..... 4,800 psi (331 BAR)
- Remote Propel ..... 4,800 psi (331 BAR)
- Pilot system..... 500 psi (35 BAR)

##### Oil Capacity

- Reservoir 50 gallons (189 L)
- System 70 gallons (265 L)
- Pressurized reservoir with visual oil level gauge

##### Filtration System

- 5 micron return filter with magnet
- 10 micron pilot filter
- Fin and tube-type oil cooler with thermostatically controlled cooling fan
- Pressure-compensated, load-sensing valves with circuit reliefs in all circuits

XL 5100 V HIGHWAY SPEED WHEELED EXCAVATOR

## Undercarriage

- 6 x 4 or 6 x 6
- Wheelbase: 171" (4.34m)
- Width 102" (2.6m)

### Transmission

- Allison 3000 RDS 6-speed automatic.

### Frame

- 48" (1.2m) wide, welded plate design
- 65 ksi material

### Gross Vehicle Axle Weight Rating:

- 6 x 4 - 68,740 lb (31,180 kg)
- 6 x 6 - 69,000 lb (31,928 kg)

### Front Axles

- 6 x 4: Meritor Model MFS-16-122A, 16,000 lb (7,257 kg) rating
- 6 x 6: Meritor Model MX19-145, 19,000 lb (8,618 kg) rating, 7.17 ratio

### Rear Axle

- Meritor Model RT-50-160, 50,000 lb (22,680 kg) rating, 7.17 ratio
- Single reduction with driver controlled differential lock in front/rear
- Inter-axle differential with lock

### Suspension

- Front: Eight leaf spring with automatic lock-out cylinders
- Rear: Hendrickson Equalizer Beam, 8" oscillation

### Brakes

- 6 x 4 Front: Meritor "Q" Plus Series
  - Cam-Master Size: 16.5" x 5" (419 mm x 152 mm)
  - Automatic slack adjusters
- 6 x 6 Front: Meritor "Q" Series
  - Cam-Master Size: 16.5" x 6" (419 mm x 127 mm)
  - Automatic slack adjusters
- Rear: Meritor "P" Series
  - Cam-Master Size: 16.5" x 7" (419 mm x 178 mm)
  - Automatic slack adjusters
- Spring brake system incorporates emergency and parking brakes on the rear axle
- Heated air dryer

### Steering

- Ross, integral hydraulic power steering
- Gear type power steering pump
- Four-quart power steering reservoir with filter
- 10 Micron pre-filter

### Wheels

- Hub piloted disc
- 10-stud, 11.25" (286 mm) bolt circle

### Tires

- 6 x 4 front: 385/65R22.5 LR (J) on/off highway tread
- 6 x 6 front: 425/65R22.5 LR (L) on/off highway traction tread
- 6 x 4 and 6 x 6 rear: 11R24.5 LR (H) on/off highway traction tread

### Standard chassis equipment

- LED headlights
- LED tail lights
- LED back-up lights and alarm
- LED brake lights
- LED identification lights front and rear
- LED directional lights
- LED four-way hazard lights,
- Instrument panel lights
- Windshield wiper/washer
- West Coast style mirror system with plain and convex mirrors
- Front and rear tow hooks
- Desiccant type air dryer with automatic purge valve and thermostatically controlled heater

## Chassis Cab

- One-person cab
- Left-hand mount
- Isolated from frame on rubber mounts
- Acoustical lining
- Sun visor
- Air conditioning

### Gauge Clusters

- Oil pressure
- Coolant temperature
- Air tank pressures
- Fuel level
- DEF level

- Voltmeter
- Speedometer with odometer
- Tachometer with hour meter
- Engine and transmission monitor lights
- Engine shutdown controlled by engine electronics
- Indicator lights and controls for front axle engagement (6 x 6 only) and rear axle differential lock
- Park brake control
- Tinted safety glass
- Sliding side windows
- Fresh air heater and defroster
- Dome light
- Air suspension seat with seat belt
- Vent in door

## Swing

- Internal swing gear
- Priority swing circuit with axial piston motor
- Planetary transmission

**Swing Speed:** 8.0 rpm

### Swing Brake:

- Automatic spring-set/hydraulic release wet disc parking brake
- Dynamic braking provided by hydraulic system

## Hydraulic Remote Control

- Upperstructure powered by chassis hydraulics through hydraulic motor and transfer case
- Travel and steering pedals in upperstructure cab
- Digging brakes and front axle lockout cylinders set automatically with travel pedal in neutral
- Parking brake controlled by toggle
- Electrically operated alarm mounted on undercarriage signals remote control movement in either direction, reverse movement when driven from undercarriage cab

## Function Forces

**Rated Boom Force:** 24,500 lb (109 kN)

**Rated Bucket Breakout Force:**

24,900 lbs (111kN)

■ Shaded areas are stability rated based on machine with 0 lb. bucket.

The rated lift capacity is based on the machine being equipped with 15,500 lb. (7030 kg) counterweight, standard boom and no bucket.

The load point is located on the bucket pivot point, including load listed for maximum radius.

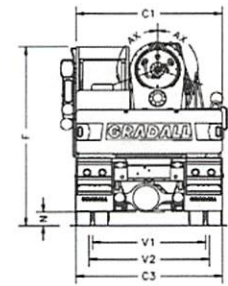
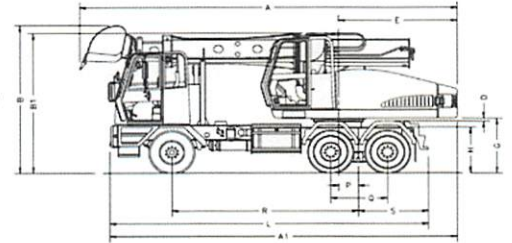
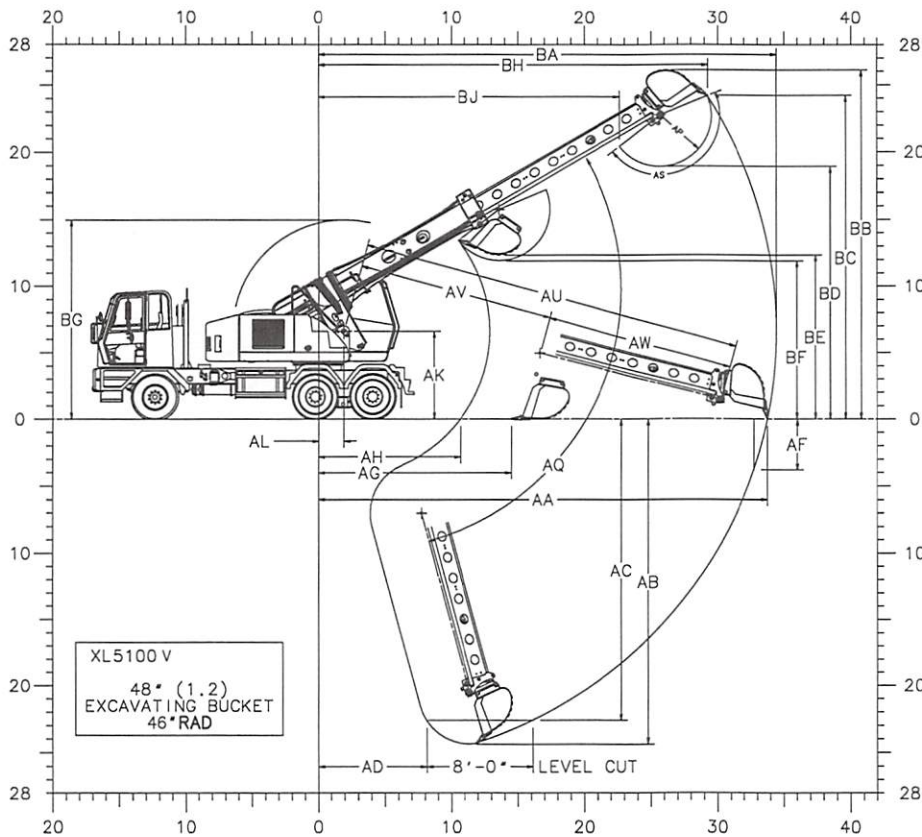
Do not attempt to lift or hold any load greater than these rated values at specified load radii and heights. The weight of slings and any auxiliary devices must be deducted from the rated load to determine the net load that may be lifted.

**ATTENTION:** All rated loads are based on the machine being stationary and level on a firm supporting surface. For safe working loads, the user must make allowance for his particular job conditions such as soft or uneven ground, out of level conditions, side loads, hazardous conditions, experience of personnel, etc. The operator and other personnel must be fully trained and understand the Operator's Manual and Safety

Manuals furnished by the manufacturer before operating this machine. Rules for safe operation of equipment must be adhered to at all times.

## GRADALL Model XL 5100 V Lift Capacity Over Side or Rear - LBS (KG)

LOAD POINT HEIGHT		LOAD RADIUS											
		10' 0" (3.0 m)		15' 0" (4.6 m)		20' 0" (6.1 m)		25' 0" (7.6 m)		Max. radius			
		Over End	Over Side	Over End	Over Side	Over End	Over Side	Over End	Over Side		Over End	Over Side	
ABOVE GROUND LEVEL	20' 0" (6.1 m)							5715 (2590)	5715 (2590)	27' 4" (8.3m)	5070 (2300)	5070 (2300)	
	15' 0" (4.6 m)			12425 (5635)	12425 (5635)	8795 (3990)	8795 (3990)	6515 (2955)	6515 (2955)	29' 5" (9.0m)	5120 (2320)	5120 (2320)	
	10' 0" (3.0 m)					9880 (4480)	9880 (4480)	7140 (3240)	7140 (3240)	30' 6" (9.3m)	5230 (2370)	5230 (2370)	
	BOOM LEVEL 8' 8" (2.7 m)					10080 (4570)	10080 (4570)	7255 (3290)	7255 (3290)	30' 7" (9.3m)	5265 (2390)	5265 (2390)	
	5' 0" (1.5 m)					10290 (4665)	10030 (4550)	7415 (3365)	7175 (3255)	30' 7" (9.3m)	5375 (2440)	5195 (2355)	
AT GROUND LEVEL						9815 (4450)	9800 (4445)	7265 (3295)	7035 (3190)	29' 11" (9.1m)	5550 (2515)	5310 (2410)	
BELOW GROUND LEVEL	5' 0" (1.5 m)			11090 (5030)	11090 (5030)	8705 (3950)	8705 (3950)	6745 (3060)	6745 (3060)	28' 3" (8.6m)	5740 (2605)	5725 (2595)	
	10' 0" (3.0 m)	8500 (3855)	8500 (3855)	8630 (3915)	8630 (3915)	7365 (3340)	7365 (3340)	6010 (2725)	6010 (2725)	25' 5" (7.7m)	5910 (2680)	5910 (2680)	
	15' 0" (4.6 m)	5840 (2650)	5840 (2650)	6640 (3010)	6640 (3010)	6075 (2755)	6075 (2755)			20' 11" (6.4m)	5930 (2690)	5930 (2690)	
	20' 0" (6.1 m)									12' 10" (3.9m)	4875 (2210)	4875 (2210)	



## Dimensions

6 x 4		6 x 6		6 x 4		6 x 6	
<b>A</b>	30' 5" (9.3m)	30' 5" (9.3m)	Overall length (boom in rack) w/ bucket	<b>AH</b>	10' 8" (3.3m)	10' 5" (3.2m)	Minimum radius at groundline
<b>A1</b>	25' 6" (7.8m)	25' 6" (7.8m)	Overall length (boom in rack) w/o bucket	<b>AK</b>	6' 7" (2m)	6' 11" (2.1m)	Boom pivot to groundline
<b>B</b>	11' 9" (3.6m)	12' 0" (3.7m)	Overall height (boom in rack) w/ bucket	<b>AL</b>	23" (584mm)	23" (584mm)	Boom pivot to axis of rotation
<b>B1</b>	11' 2" (3.4m)	11' 5" (3.5m)	Overall height (boom in rack) w/o bucket	<b>AP</b>	46" (511mm)	46" (511mm)	Bucket tooth radius
<b>C1</b>	8' 6" (2.6m)	8' 6" (2.6m)	Width of upperstructure	<b>AQ</b>	30° Up & 75° Down	30° Up & 75° Down	Boom pivot angle
<b>C3</b>	8' 6" (2.6m)	8' 6" (2.6m)	Width of undercarriage	<b>AS</b>	165°	165°	Bucket pivot angle
<b>D</b>	3" (76mm)	3" (76mm)	Minimum clearance, upperstructure to undercarriage	<b>AU</b>	28' 8" (8.7m)	28' 8" (8.7m)	Maximum telescoping boom length (boom pivot to bucket pivot)
<b>E</b>	8' 6" (2.6m)	8' 6" (2.6m)	Swing clearance, rear of upperstructure	<b>AV</b>	14' 8" (4.5m)	14' 8" (4.5m)	Minimum telescoping boom length (boom pivot to bucket pivot)
<b>F</b>	10' 10" (3.3m)	11' 1" (3.4m)	Top of cab to ground line	<b>AW</b>	14' 0" (4.3m)	14' 0" (4.3m)	Telescoping boom travel
<b>G</b>	52" (1.3m)	56" (1.4m)	Clearance upperstructure to groundline	<b>AX</b>	110°	110°	Bucket tilt angle (both sides of center)
<b>H</b>	44" (1.1m)	48" (1.2m)	Top of wheel mounted under carriage frame to groundline	<b>BA</b>	34' 5" (10.5m)	34' 5" (10.5m)	Maximum radius of working equipment
<b>L</b>	24' 2" (7.4m)	24' 2" (7.4m)	Overall length of undercarriage	<b>BB</b>	26' 1" (8.0m)	26' 5" (8.0m)	Maximum height of working equipment
<b>N</b>	10" (254mm)	10" (254mm)	Ground clearance (per SAE J1234)	<b>BC</b>	24' 3" (7.4m)	24' 6" (7.5m)	Maximum bucket tooth height
<b>P</b>	22" (564mm)	22" (564mm)	Center of rear tandem to axis of rotation	<b>BD</b>	18' 11" (5.8m)	19' 2" (5.9m)	Minimum clearance of bucket teeth, with bucket pivot at maximum height
<b>Q</b>	52" (1.3m)	52" (1.3m)	Distance between centers of tandem axles	<b>BE</b>	12' 4" (3.8m)	12' 7" (3.8m)	Minimum clearance of fully curled bucket at maximum boom height
<b>R</b>	14' 3" (4.3m)	14' 3" (4.3m)	Wheelbase	<b>BF</b>	11' 11" (3.6m)	12' 2" (3.7m)	Minimum clearance of bucket teeth at maximum boom height
<b>S</b>	5' 4" (1.6m)	5' 4" (1.6m)	Center of rear axle to rear of frame (step)	<b>BG</b>	15' 0" (4.6m)	15' 3" (4.7m)	Maximum height of working equipment with bucket below groundline
<b>V1</b>	6' 7" (2.0m)	6' 7" (2.0m)	Tread, rear axles (285/75R24.5 tires)	<b>BH</b>	29' 3" (8.9m)	29' 3" (8.9m)	Radius of bucket teeth at maximum height
<b>V2</b>	7' 0" (2.1m)	7' 0" (2.1m)	Tread, front axle (385/65R22.5 tires)	<b>BJ</b>	22' 8" (6.9m)	22' 8" (6.9m)	Minimum radius of bucket teeth at maximum bucket pivot height
<b>AA</b>	33' 9" (10.3m)	33' 8" (10.3m)	Maximum radius at groundline (165° pivot)				
<b>AB</b>	24' 5" (7.4m)	24' 1" (7.3m)	Maximum digging depth				
<b>AC</b>	22' 8" (6.9m)	22' 4" (6.8m)	Maximum depth for 8' level cut				
<b>AD</b>	8' 7" (2.6m)	8' 7" (2.6m)	Minimum radius of 8' level cut at depth "AC"				
<b>AF</b>	3' 10" (1.2m)	3' 6" (1.1m)	Maximum depth of vertical wall which can be excavated				
<b>AG</b>	14' 6" (4.4m)	14' 6" (4.4m)	Minimum level cut radius with bucket flat on groundline				

Specifications subject to change without notice.  
Metric units are meters (m) unless noted.  
Machines shown may have optional equipment.

## Weight

- Approximate working weight, fuel tank half full
  - 6 x 4: 57,670 lb (26,159 kg)
  - 6 x 6: 58,379 lb (26,488 kg)

## Optional Equipment

- Vandalism protection kit including window covers
- Strobe light
- Tilt steering column

## Attachments

- Quick change and reversible buckets fabricated using steel plate with high strength, low alloy cutting edges and wear strips
- Standard attachments available for wide range of applications
- Capacities shown are in heaped cubic yard



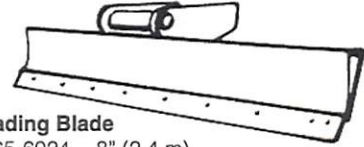
### Excavating Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8045-6020	24" (610mm) 603 lbs (274 kg)	3/8	0.31
8045-6021	30" (762mm) 660 lbs (300 kg)	1/2	0.41
8045-6022	36" (914mm) 741 lbs (336 kg)	5/8	0.54
8045-6023	42" (1.07m) 841 lbs (382 kg)	3/4	0.64
8045-6024	48" (1.22m) 957 lbs (434 kg)	1	0.76
8065-6117	48" (1.22m) 959 lbs (435 kg)	1.5	1.15



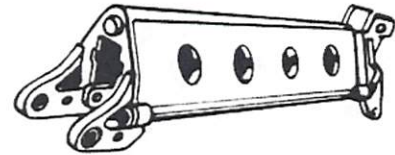
### Dredging Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8065-6013	72" (1.83m) 1114 lbs (505 kg)	1 1/8	0.87



### Grading Blade

8065-6024	8" (2.4 m) 630 lbs (285 kg)
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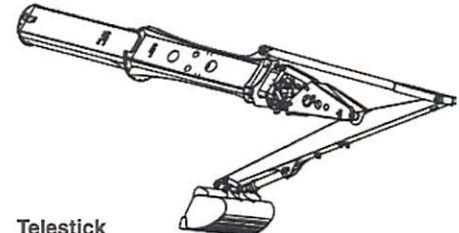
### Boom Extension

8065-5028	4' (1.2 m) 1,090 lbs (495 kg)
8065-5029	6' (1.8 m) 1,250 lbs (560 kg)
8065-5030	8' (2.4 m) 1,389 lbs (631 kg)
8065-5031	12' (3.7m) 1670 lbs (759 kg)



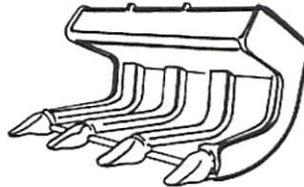
### Trenching Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8065-6104	15" (381mm) 897 lbs (407 kg)	1/5	0.15
8065-6012	21" (533mm) 982 lbs (445 kg)	1/4	0.19



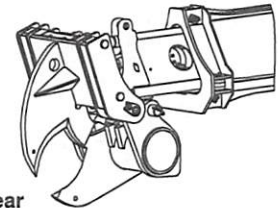
### Telestick

8055-5007	3600 lbs (1633 kg)
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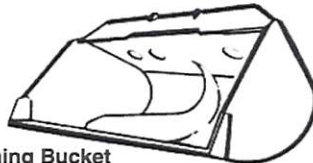
### Pavement Removal Bucket

8065-6102	40" (1.0 m) 1262 lbs (573 kg)
8065-6119	48" (1.22 m) 1910 lvi (866 kg)



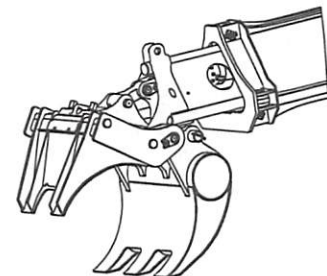
### Tree Limb Shear

8045-5052	1,948 lbs (884 kg)
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### Ditching Bucket

		yd <sup>3</sup>	m <sup>3</sup>
8065-6007	60" (1.52m) 807 lbs (366 kg)	7/8	0.73
8065-6006	66" (1.68m) 892 lbs (405 kg)	1	0.76
8065-6002	72" (1.83m) 944 lbs (428 kg)	1 1/8	0.87
8065-6118	72" (1.83m) 1148 lbs (521 kg)	1.6	1.22



### Fixed Thumb Grapple

8075-5023	1,574 lbs (714 kg)
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It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.

# GRADALL®

406 Mill Ave. SW, New Philadelphia, Ohio 44663  
Phone: 800-445-4752  
www.Gradall.com



Form No. 11817 12/22  
Printed in USA

**ORDERING INSTRUCTIONS**

Bid Number: DOT-ITB-24-9014-CA

Title: TRUCK MOUNTED EXAVATOR LARGE

**NOTE: ALL ORDERS SHOULD BE DIRECTED TO:**

FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEID): F87-4067006-001

VENDOR: **Great Southern Equipment, LLC**

ADDRESS: 1023 S 50<sup>th</sup> Street

CITY, STATE, ZIP: Tampa, Florida 33619

TELEPHONE: 813-248-4971

TOLL FREE NO.: 866-586-8956

DELIVERY: DELIVERY WILL BE MADE WITHIN 180-240 DAYS AFTER RECEIPT OF PURCHASE ORDER.

PRODUCT INFORMATION: DIRECT QUESTIONS TO:

NAME & TITLE: Raymond Ferwerda, Jr.

ADDRESS: 1023 S 50<sup>th</sup> Street

CITY, STATE, ZIP: Tampa, Florida 33619

TELEPHONE: 813-248-4971

TOLL FREE NO.: 866-586-8956

E-MAIL ADDRESS: RFERWERDA@GSEQUIPMENT.NET

WEB ADDRESS: GSEQUIPMENT.COM

Will you accept the State of Florida Purchasing Card (VISA)?  Yes  No

# INTRODUCTION SECTION

## 1) INVITATION

The purpose of this Invitation to Bid is to obtain competitive bids to establish a two (2) years contract for the purchase of Truck Mounted Excavator Large by the Department of Transportation, hereafter referred to as the "Department". The contract will become effective on the date the successful bidder(s) is approved for award and will expire two (2) years, from that date. After the award, said bidder(s) will be referred to as the "Vendor(s)".

All commodities identified in this Invitation to Bid will be subject to the availability of identical commodities as provided by mandatory Department of Management Services' State Contract(s) at such time these commodities become available. In the event of duplication(s) of commodities, the Department of Management Services' mandatory State Contract shall prevail.

## 2) TIMELINE

Provided below is a list of critical dates and actions. These dates are subject to change. Notices of changes (Addenda) will be posted on the Florida Vendor Information Portal at <https://vendor.myfloridamarketplace.com/> (click on "Search Advertisements") under this bid number. It is the responsibility of all potential bidders to monitor this site for any changing information prior to submitting your bid.

<u>ACTION / LOCATION</u>	<u>DATE</u>	<u>LOCAL TIME</u>
<b>DEADLINE FOR TECHNICAL QUESTIONS -</b> (There is no deadline for administrative questions)	<b>08-31-2023</b>	<b>5:00 PM EST</b>
<b>BIDS DUE (ON OR BEFORE) -</b> Florida Department of Transportation Central Procurement Office Cassandra Anderson, Procurement Office Phone: (850) 414-4479 <a href="mailto:CO.Purch@dot.state.fl.us">CO.Purch@dot.state.fl.us</a>	<b>09-12-2023</b>	<b>9:00 AM EST</b>
<b>PUBLIC OPENING -</b> Florida Department of Transportation Central Procurement Office Cassandra Anderson, Procurement Agent 605 Suwannee Street Tallahassee, Florida 32399-0450	<b>09-12-2023</b>	<b>10: 00 AM EST</b>
<b>POSTING OF INTENDED DECISION/AWARD -</b>	<b>09-19-2023</b>	

## 3) BID OPENING AGENDA

The sealed bids will be opened by the Department's Procurement Office personnel at the date, time and location in the Timeline. All bid openings are open to the public and will be conducted according to the following agenda:

Opening remarks – Approximate time of 2 minutes by Department Procurement Office personnel.

Public input period – To allow a maximum of 15 minutes total for public input related to the bid solicitation.

Bids opened – At conclusion of public input or 15 minutes, whichever occurs first, bids received timely will be opened with bidder's name to be read aloud.

Adjourn - After all bids received timely have been opened, the meeting will be adjourned.



4) **SPECIAL ACCOMMODATIONS**

Any person with a qualified disability requiring special accommodations at a pre-bid conference, public meeting, and/or opening shall contact the contact person at the phone number, e-mail address provided on the title page at least five (5) working days prior to the event. If you are hearing or speech impaired, please contact this office by using the Florida Relay Services which can be reached at 1 (800) 955-8771 (TDD).

5) **CONTRACT USE**

Use of the contract resulting from this bid will be optional for the Department. The Department reserves the right to solicit separate bids for any unusual or abnormal quantity requirements that may arise during the term of the contract.

6) **ESTIMATED PURCHASES**

It is anticipated that the Department will purchase approximately \$1,100,000.00 under any contract resulting from this bid. This estimated amount is given only as a guideline for preparing your bid and should not be construed as representing an actual amount to be purchased under this contract. The Vendor(s) shall supply, at bid prices, the actual amounts ordered regardless of whether the total of such amounts is more or less than anticipated. This bid and the resulting contract will be subject to annual appropriated funding.

7) **RENEWAL**

Upon mutual agreement, the Department and the Contract Vendor may renew the contract for a period that may not exceed 3 years or the term of the original contract, whichever is longer. The renewal must be in writing and signed by both parties, and is subject to the same terms and conditions set forth in the initial contract and any written amendments signed by the parties. Any renewal shall specify the renewal price, as set forth in the solicitation response except that an agency may negotiate lower pricing. Renewal is contingent upon satisfactory performance evaluations and subject to the availability of funds.

## **SPECIAL CONDITIONS**

1) **MyFloridaMarketPlace**

BIDDERS MUST BE ACTIVELY REGISTERED IN THE STATE OF FLORIDA'S MYFLORIDAMARKETPLACE SYSTEM BY THE TIME AND DATE OF THE BID OPENING OR THEY MAY BE CONSIDERED NON-RESPONSIVE (see Special Condition 21). All prospective bidders that are not registered should go to <https://vendor.myfloridamarketplace.com/> to complete on-line registration, or call 1-866-352-3776 for assisted registration.

All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the MFMP Transaction Fee in accordance with the referenced Form PUR 1000 General Contract Condition #14. The Transaction Fees imposed shall be based upon the date of issuance of the payment.

2) **FLORIDA DEPARTMENT OF FINANCIAL SERVICES (DFS) W-9 REQUIREMENT**

The Florida Department of Financial Services (DFS) requires all vendors that do business with the state to submit an electronic Substitute Form W-9. Vendors must submit their W-9 forms electronically at <https://flvendor.myfloridacfo.com> to receive payments from the state. Contact the DFS Customer Service Desk at (850) 413-5519 or [FLW9@myfloridacfo.com](mailto:FLW9@myfloridacfo.com) with any questions.

### 3) **QUESTIONS & ANSWERS**

In accordance with section 287.057(25), Florida Statutes, respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72-hour period following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the procurement officer or as provided in the solicitation documents. Violation of this provision may be grounds for rejecting a response.

Any technical questions arising from this Invitation to Bid must be forwarded, in writing, to the procurement agent identified below. Questions must be received no later than the time and date reflected on the Timeline. The Department's written response to written inquiries submitted timely by bidders will be posted on the Florida Vendor Information Portal at <https://vendor.myfloridamarketplace.com/> (click on "Search Advertisements"), under this bid number. It is the responsibility of all potential bidders to monitor this site for any changing information prior to submitting their bid.

**WRITTEN TECHNICAL QUESTIONS** should be submitted to:

**Cassandra Anderson**

**Email: [CO.Purch@dot.state.fl.us](mailto:CO.Purch@dot.state.fl.us)**

Questions regarding administrative aspects of the bid process should be directed to the Procurement Agent in writing at the address above or by phone: (850) 414-4479

### 4) **ORAL INSTRUCTIONS / CHANGES TO THE INVITATION TO BID (ADDENDA)**

No negotiations, decisions, or actions will be initiated or executed by a bidder as a result of any oral discussions with a State employee. Only those communications which are in writing from the Department will be considered as a duly authorized expression on behalf of the Department.

Notices of changes (Addenda) will be posted on the Florida Vendor Information Portal at <https://vendor.myfloridamarketplace.com/> (click on "Search Advertisements") under this bid number. It is the responsibility of all potential bidders to monitor this site for any changing information prior to submitting your bid. All Addenda will be acknowledged by signature and subsequent submission of Addenda with bid when so stated in the Addenda.

### 5) **DIVERSITY ACHIEVEMENT**

The Department, in accordance with ***Title VI of the Civil Rights Act of 1964, 42 USC 2000d- 2000d-4, Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21***, Nondiscrimination in federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that the Department will affirmatively ensure that in any contract/agreement entered into pursuant to this advertisement, minority and disadvantaged business enterprises will be afforded the full opportunity to submit bids in response to this invitation and will not be discriminated on the basis of race, color, national origin, or sex in consideration for an award.

The Department encourages the recruitment and utilization of small, minority, women, and service-disabled veteran businesses. The Department, its vendors, suppliers, and consultants should take all necessary and reasonable steps to ensure that small, minority, women, and service-disabled veteran businesses have the opportunity to compete for and perform contract work for the Department in a nondiscriminatory environment.

## 6) **PRICES/DELIVERY**

Prices shall be firm, net, delivered prices, F.O.B. destination.

Delivery must be made within thirty (30) calendar days or less upon receipt of a purchase order by the contract vendor at their designated ordering location. If more time is needed, the bidder should state the extra time required and the reasons why, in their bid response. Acceptance will be subject to the Department's approval.

## 7) **IN-STATE PREFERENCE FOR COMMODITY BIDS**

In accordance with Section 287.084, Florida Statutes, when the lowest responsible and responsive bid is submitted by a vendor whose principal place of business is located outside the state of Florida, a 5% price preference shall be awarded to the lowest responsible and responsive vendor whose principal place of business is located in the state of Florida, as determined by the vendor's registration with the Florida Department of State (SunBiz), unless the state where the out-of-state vendor is located provides a price preference for businesses having a principal place of business in that state. In that case, the same price preference shall be awarded to the lowest responsible and responsive vendor whose principal place of business is located in the state of Florida responding to this Invitation to Bid (ITB).

All bidders **MUST** complete the attached "In-State Preference Form" and submit with their bid response. All vendors whose principal place of business is outside of Florida, as determined by the vendor's registration with the Florida Department of State (SunBiz), **must accompany any written bid, proposal, or reply documents** with a written opinion of an attorney at law licensed to practice law in that foreign state, as to the preferences, if any or none, granted by the law of that state to its own business entities whose principal places of business are in that foreign state in the letting of any or all public contracts. Failure to submit the "In-State Preference Form AND written opinion will result in the vendor being found non-responsive.

For the 5% preference, the Department will apply 5% to the bid price(s) of the lowest out of state vendor whose state does not grant a preference if that vendor has submitted the lowest responsible and responsive bid. The "In-State Preference" does not apply to transportation projects that use federal funds.

## 8) **INTENDED AWARD**

As the best interest of the State may require, the right is reserved to make award(s) by individual item, group of items, all or none, or a combination thereof: on a geographical district basis and / or on a statewide basis with one or more suppliers to reject any and all bids or waive any minor irregularity or technicality in bids received. When it is determined there is competition to the lowest responsible bidder, evaluation of other bids is not required. Bidders are cautioned to make no assumptions, unless their bid has been evaluated as being responsive. All awards made as a result of this bid shall conform to applicable Florida Statute. If the Department is confronted with identical pricing or scoring from multiple vendors, the Department shall determine the order of award using the following criteria, in the order of preference listed below (from highest priority to lowest priority):

1. Section 295.187(4), Florida Statutes; Veteran Business Enterprise
2. Section 287.087, Florida Statute; Drug Free Work Place
3. Section 287.057(11); Minority Business Enterprise

In the event that the application of the above referenced preferences does not resolve the identical replies, the Department shall determine the award by means of random drawing.

## 9) **PRE-BID CONFERENCE:** A PRE-BID CONFERENCE WILL NOT BE HELD.

**10) ALTERNATES**

Alternate brands will be considered for this bid. The "Department" reserves the right to require each bidder to demonstrate to the satisfaction of the "Department" that the items/materials will perform in a completely acceptable manner. In the event the "Department" judges that the demonstrated performance is unsatisfactory, the "Department" may reject the bid. The bidder must be prepared to demonstrate the materials within fourteen (14) days after the bid opening date. Demonstration time and place is subject to agreement of the "Department" and the bidder.

Bidders submitting a bid that is based on an alternate brand of equipment must submit, with their bid, complete specifications and descriptive technical literature for the equipment proposed.

**11) WARRANTY/SUBSTITUTIONS**

A warranty is required on all items purchased against defective materials, workmanship, and failure to perform in accordance with required industry performance criteria, for a period of not less than ninety (90) days from the date of acceptance by the purchaser. Any deviation from this criteria must be documented in the bid response or the above statement shall prevail. Delivery of substitute commodities requires prior written approval from the ordering location.

**12) REPLACEMENT/RESTOCKING**

Replacement of all materials found defective within the warranty period shall be made without cost to the purchaser, including transportation if applicable. All fees associated with restocking cancelled orders shall be the responsibility of the vendor.

**13) PRODUCT REQUIREMENTS/SPECIFICATIONS**

Items furnished shall be standard products of the manufacturer or their suppliers, shall be new, unused, clean, and free from any defects or features affecting appearance, serviceability, or the safety of the user in normal intended use.

Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and successful bidder will be held responsible, therefore. Deviations must be explained in detail on separate attached sheet(s).

**14) ACCEPTANCE**

All items listed in the specifications, delivered to the Department not meeting specifications or found to be poorly manufactured will not be accepted, but returned to the vendor, at their expense, for replacement. Replacement of all items found defective shall be made without cost to the Department, including transportation, if applicable. As it may be impossible for each facility to inspect all items upon arrival, a reasonable opportunity must be given to these facilities for inspection of the items, and returning those that are defective.

**15) REVIEW OF BIDDER'S FACILITIES & QUALIFICATIONS**

After the bid due date and prior to contract execution, the Department reserves the right to perform or to have performed, an on-site review of the bidder's facilities and qualifications. This review will serve to verify data and representations submitted by the bidder and may be used to determine whether the bidder has adequate facilities, equipment, qualified and experienced staff, and overall management capabilities to provide the required items. The review may also serve to verify whether the bidder has financial capabilities adequate to meet the contract requirements.

Should the Department determine that the bid package has material misrepresentations or that the size or nature of the bidder's facilities, equipment, management capabilities, or the number of experienced personnel (including technical staff) are not adequate to ensure satisfactory contract performance, the Department has the right to reject the bid.

#### **16) PROTEST OF INVITATION TO BID SPECIFICATIONS**

Any person who is adversely affected by the contents of this Invitation to Bid must file the following with the Department of Transportation, Clerk of Agency Proceedings, Office of the General Counsel, 605 Suwannee Street, Mail Station 58, Tallahassee, Florida 32399-0450:

1. A written notice of protest within seventy-two (72) hours after the posting of the solicitation, (the notice of protest may be Faxed to 850-414-5264), and
2. A formal written protest in compliance with Section 120.57(3), Florida Statutes, within ten (10) days of the date on which the written notice of protest is filed.

Failure to file a protest within the time prescribed in section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

#### **17) UNAUTHORIZED ALIENS**

The employment of unauthorized aliens by any contractor is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If the contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of the contract.

#### **18) SCRUTINIZED COMPANIES LISTS**

ALL Responses, regardless of dollar value, must include a completed [Vendor Certification Regarding Scrutinized Companies Lists](#) to certify the respondent is not on either of those lists. The Form should be submitted with the Price Proposal.

A Vendor is ineligible to enter into a contract with the Department for goods or services of any amount if, at the time of entering into such contract, the Vendor is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel.

Section 287.135, Florida Statutes, also prohibits companies from entering into a contract for goods or services of \$1 million or more that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which were created pursuant to s. 215.473, Florida Statutes.

If the Department determines the Vendor submitted a false certification under Section 287.135 of the Florida Statutes, the Department shall either terminate the Contract after it has given the Vendor notice and an opportunity to demonstrate the Department's determination of false certification was in error pursuant to Section 287.135 of the Florida Statutes, or maintain the Contract if the conditions of Section 287.135 of the Florida Statutes are met.

#### **19) RESERVATIONS**

The Department reserves the right to accept or reject any or all bids received and reserves the right to make an award without further discussion of the bids submitted. Therefore, the bidder should make sure that the bid package submitted is complete and accurate and submitted to ensure delivery on or before the bid opening time and date specified in this solicitation. It is understood that the bid will become a part of the Department's official file, without obligation to the Department.

**20) ADDITIONAL TERMS & CONDITIONS**

No conditions may be applied to any aspect of the ITB by the bidder. Any conditions placed on any aspect of the bid documents by the bidder may result in the bid being rejected as a conditional bid (see "RESPONSIVENESS OF BIDS"). **DO NOT WRITE IN CHANGES ON ANY ITB SHEET.** The only recognized changes to the ITB prior to bid opening will be a written Addenda issued by the Department.

**21) RESPONSIVENESS OF BIDS**

Bids will not be considered if not received by the Department **on or before** the date and time specified as the due date for submission. All bids must be typed or printed in ink. A responsive bid is an offer to provide the items specified in this Invitation to Bid in accordance with all requirements of this Invitation to Bid. Bids found to be non-responsive will not be considered. Bids may be rejected if found to be irregular or not in conformance with the specifications and instructions herein contained. A bid may be found to be irregular or non-responsive by reasons that include, but are not limited to, failure to utilize or complete prescribed forms, modifying the bid specifications, submitting conditional bids or incomplete bids, submitting indefinite or ambiguous bids, or executing forms or the bid sheet with improper and/or undated signatures. Other conditions which may cause rejection of bids include, evidence of collusion among bidders, obvious lack of experience or expertise to provide the required items, and failure to perform or meet financial obligations on previous contracts. ALL determinations of responsiveness will be the responsibility of the FDOT Procurement Office.

**22) REQUIRED DOCUMENTS**

The bidder must use the attached Bid Sheet to submit its bid. The Bid Sheet must be signed and dated in ink by a representative who is authorized to contractually bind the bidder. All bid sheets and other documentation submitted in response to this solicitation must be executed and submitted in accordance with the bid submittal instructions outlined within Special Conditions 26.

**23) "DRUG-FREE WORK PLACE" PREFERENCE**

Whenever two or more bids which are equal with respect to price, quality, and service are received, the Department shall determine the order of award first in accordance with section 295.187(4), Florida Statutes, giving preference to "Veteran Business Enterprise" then to bid responses from vendors that certify the business has implemented a drug-free workplace program in accordance with Section 287.087, Florida Statutes. The "Drug-Free Workplace Program Certification" must be completed and submitted with the bid response to be eligible for this preference.

**24) COPYRIGHTED MATERIAL**

Copyrighted material will be accepted as part of a bid only if accompanied by a waiver that will allow the Department to make paper and electronic copies necessary for the use of Department staff and agents. It is noted that copyrighted material is not exempt from the Public Records Law, Chapter 119, Florida Statutes. Therefore, such material will be subject to viewing by the public, but copies of the material will not be provided to the public.

**25) ATTACHMENT TO ITB SUBMITTAL - CONFIDENTIAL MATERIAL**

The Bidder must include any materials it asserts to be exempted from public disclosure under Chapter 119, Florida Statutes, in a separate bound document labeled "Attachment to Invitation to Bid, Number DOT-ITB-24-9014-CA Confidential Material". The Bidder must identify the specific Statute that authorizes exemption from the Public Records Law. Any claim of confidentiality on materials the Bidder asserts to be exempt from public disclosure and placed elsewhere in the bid will be considered

waived by the Bidder upon submission, effective after opening.

## 26) **ELECTRONIC SUBMISSION OF BIDS:**

### **Electronic Bid Submittals**

Please follow the below instructions for the submittal of electronic bids, failure to do so, may result in your bid being found non-responsive. Non-responsive replies will not be evaluated.

- a) Subject line must show: **DOT-ITB-24-9014-CA**
- b) Email shall contain one file attachment marked as the following: **DOT-ITB-24-9014-CA Bid Submittal**.
- c) Documents shall be submitted in portable document format (PDF) and have a size limit of 25MB.
- d) Documents shall not be submitted in a ZIP (.zip) file.
- e) The body of the email shall not contain any information.
- f) Bids shall be submitted to: **CO.Purch@dot.state.fl.us**

It is the bidder's responsibility to assure that the bid is delivered to the proper place **on or before** the Bid Due date and time (See Introduction Section 2 Timeline). Bids which for any reason are not so delivered, will not be considered.

## 27) **MODIFICATIONS, RESUBMITTAL AND WITHDRAWAL**

Bidders may modify submitted bids at any time prior to the bid due date. Requests for modification of a submitted bid shall be in writing and must be signed by an authorized signatory of the bidder. Upon receipt and acceptance of such a request, the entire bid will be returned to the bidder and not considered unless resubmitted by the due date and time. Bidders may also send a change in a separate email to be opened at the same time as the bid. The ITB number, opening date and time should appear on the envelope of the modified bid.

## 28) **POSTING OF INTENDED DECISION/AWARD**

### **28.1 - General:**

The Department's decision will be posted on the Florida Vendor Information Portal at <https://vendor.myfloridamarketplace.com/>, on the date in the Timeline, and will remain posted for a period of seventy-two (72) hours. Any bidder who is adversely affected by the Department's recommended award or intended decision must file the following with the Department of Transportation, Clerk of Agency Proceedings, Office of the General Counsel, 605 Suwannee Street, Mail Station 58, Tallahassee, Florida 32399-0450:

1. A written notice of protest within seventy-two (72) hours after posting of the Intended Award, (the notice of protest may be Faxed to 850-414-5264), and
2. A formal written protest and protest bond in compliance with Section 120.57(3), Florida Statutes, within ten (10) days of the date on which the written notice of protest is filed. At the time of filing the formal written protest, a bond (a cashier's check or money order may be accepted) payable to the Department must also be submitted in an amount equal to one percent (1%) of the estimated contract amount based on the contract price submitted by the protestor.

Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

## **28.2 - Inability to Post:**

If the Department is unable to post as defined above, the Department will notify all bidders by electronic notification on the Florida Vendor Information Portal (see special condition 28.1, above) and/or telephone. The Department will provide notification of any future posting in a timely manner.

## **28.3 - Request to Withdraw Bid:**

Requests for withdrawal will be considered if received by the Department, in writing, within seventy-two (72) hours after the bid opening time and date. Requests received in accordance with this provision will be granted by the Department upon proof of the impossibility to perform based upon obvious error on the part of the bidder. Bidders that do not withdraw as stated above will forfeit their bid bond, if applicable.

## **29) RECYCLED MATERIAL**

The Department encourages the use of products and materials with recycled content and post-consumer recovered materials. If the item(s) specified in the Technical Specification is available with recycled content, we request that you provide product information to help in our search for recycled products. However, this bid request is for the product as specified herein and does not require prices for recycled product. This information should be sent as part of your bid response or may be sent separately.

## **30) PRICE ADJUSTMENTS**

The Department may, in its sole discretion, make an equitable adjustment in the Contract terms and/or pricing if pricing or availability of supply is affected by extreme and unforeseen volatility in the marketplace, that is, by circumstances that satisfy all the following criteria: (1) the volatility is due to causes wholly beyond the Vendor's control, (2) the volatility affects the marketplace or industry, not just the particular Contract source of supply, (3) the effect on pricing or availability of supply is substantial, and (4) the volatility so affects the Vendor that continued performance of the Contract would result in a substantial loss. The Vendor shall provide thirty (30) days written notice to the Department and written approval from the Department is required. Documentation of cost adjustments shall be provided by the Vendor to the Department.

## **31) DELIVERY LOCATION(S)**

The primary point of delivery for this contract will be the FDOT Shops, but bid prices will include delivery to other locations, throughout the State of Florida.

## **32) CANCELLATION**

All contract obligations shall prevail for at least one hundred and eighty (180) days after the effective date of the contract. For the protection of both parties, this contract may be cancelled in whole or in part after one hundred and eighty (180) days by either party giving thirty (30) days prior written notice to the other contract party. The contract may, also, be cancelled by the Department for nonperformance (default) in accordance with Rule 60A-1.006(3), F.A.C.

## **33) ORDERING INSTRUCTIONS**

Manufacturers are encouraged to bid direct naming dealers who will accept orders and complete deliveries. Bidders must include complete ordering instructions, including FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEID), for invoicing dealers, with the bid on a separate sheet.



### **34) ORDER QUANTITIES**

No minimum order quantities will be accepted. The Department will order as needed in the quantities needed.

### **35) OPEN PURCHASE ORDERS**

The Department may, at its discretion, establish an open (estimated quantity) purchase order with the contract vendor(s) to facilitate the purchasing of materials. The purchase of materials may be placed by; (1) written purchase order, (2) telephone orders by authorized Department personnel, or (3) an itemized order in writing. The Department will supply the contract vendor(s) with a list of personnel authorized to order. Delivery of items on these open purchase orders shall not exceed the contract effective period.

### **36) INVOICING**

Invoices must match units specified on the Purchase Order.

### **37) FORMS**

The Bidder must complete all required items below and submit them as part of the Bid package. Any Bid in which these forms are not used or in which these forms are improperly executed may be considered non-responsive and the bid may be subject to rejection.

Bid Sheet

Drug-Free Workplace Program Certification

In-State Preference

Vendor Certification Regarding Scrutinized Companies Lists (Form 375-030-60)

Ordering Instructions

Acknowledgement Order Form

Certification of Recycled Content (if applicable)

### **38) TERMS AND CONDITIONS**

#### **38.1 General Contract Conditions (PUR 1000)**

The State of Florida's General Contract Conditions are outlined in form PUR 1000, which is a downloadable document incorporated into this Invitation to Bid (ITB) by reference. Any terms and conditions set forth in this ITB document will take precedence over the PUR 1000 form where applicable.

<http://www.dms.myflorida.com/content/download/2933/11777/1000.pdf>

The following paragraphs do not apply to this Invitation to Bid:

Paragraph 31, Dispute Resolution - PUR 1000

Paragraph 40, PRIDE – PUR 1000, when federal funds are utilized.

#### **38.2 General Instructions to Respondents (PUR 1001)**

The State of Florida's General Instructions to Respondents are outlined in form PUR 1001, which is a downloadable document incorporated into this Invitation to Bid (ITB) by reference. Any terms and conditions set forth in this ITB document take precedence over the PUR 1001 form where applicable.

<http://www.dms.myflorida.com/content/download/2934/11780/1001.pdf>

The following paragraphs do not apply to this Invitation to Bid:

Paragraph 3, Electronic Submission – PUR 1001

Paragraph 4, Terms and Conditions – PUR 1001

Paragraph 5, Questions – PUR 1001

### **38.3 MFMP Purchase Order Terms and Conditions**

All MFMP Purchase Order contracts resulting from this solicitation will include the terms and conditions of this solicitation and the State of Florida's standardized Purchase Order Terms and Conditions, which can be found at the Department of Management Services website at the following link:

[http://www.dms.myflorida.com/content/download/117735/646919/Purchase\\_Order\\_Terms\\_Sept\\_1\\_2015\\_.pdf](http://www.dms.myflorida.com/content/download/117735/646919/Purchase_Order_Terms_Sept_1_2015_.pdf)  
Section 8(B), PRIDE, is not applicable when using federal funds.

### **39) ORDER OF PRECEDENCE**

All responses are subject to the terms and conditions of this solicitation, which, in case of conflict, shall have the following order of precedence listed:

Special Conditions

Technical Specifications

Bid Sheet

MFMP Purchase Order Terms and Conditions – Section 8(B), PRIDE, is not applicable when using federal funds.

General Instructions to Respondents (PUR 1001)

General Contract Conditions (PUR 1000)

Introduction Section

### **40) LIABILITY INSURANCE**

No general liability insurance is required.

### **41) INSPECTOR GENERAL**

The contractor/consultant/vendor agrees to comply with s.20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with s.20.055(5), Florida Statutes.

### **42) CLARIFICATIONS/REVISIONS**

Before award, the Department reserves the right to seek clarifications, to request proposal revisions, and to request any information deemed necessary for proper evaluation of proposals from all offerors deemed eligible for Contract award. Failure to provide requested information may result in rejection of the proposal.

### **43) ACKNOWLEDGEMENT OF ORDER FORM**

The Acknowledgement of Order" Form (see attached) shall be mailed to the purchaser within ten (10) calendar days from the date the contractor receives the Purchase Order.

## BID CHECKLIST

(DOES NOT NEED TO BE RETURNED WITH YOUR BID)

This Checklist is provided as a guideline, only, to assist bidders in the preparation of their bid response. Included are some important matters that the bidder should check. This checklist is just a guideline, and is not intended to include all matters required by the ITB. Bidders are responsible to read and comply with the ITB in its entirety.

Check off each the following:

1. The "Bid Sheet" has been filled out completely, signed, and enclosed in the bid response.
2. The Federal Employers Identification Number or Social Security Number has been entered in the space provided.
3. "Drug-Free Workplace Program Certification" form has been read, signed, and enclosed in the bid response, if applicable.
4. "Scrutinized Companies Lists" certification form has been read, signed, and enclosed in the bid response.
5. The Specifications section has been thoroughly reviewed for compliance to the bid requirements.
6. The prices bid have been reviewed for accuracy and all price corrections have been initialed in ink.
7. The Acknowledgement of Order Form has been filled out completely and enclosed in the bid response.
8. The "Ordering Instructions" form has been completed and enclosed in the bid response.
9. The <https://vendor.myfloridamarketplace.com/> website has been checked and any Addendums posted have been completed, signed, and included in the bid response.
10. The bid response must be received, at the location specified, **on or before** the Bid Due Date and Time designated in the ITB.
11. Electronic Submission of Bids guidelines laid out in Special Condition 27 are strictly followed.
12. The "Certification of Recycled Content" form, (if applicable) has been filled out completely and enclosed in the bid response.