

CONTRACT AWARD	
CK09MERCER2017-13 ONE (1) 2017 OR NEWER CASE 580N LOADER BACKHOE FOR THE MERCER COUNTY HIGHWAY DIVISION AND THE MERCER COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM	
	RESOLUTION # 2017-359
NAME OF RESPONDENT	GROFF TRACTOR NEW JERSEY LLC
ADDRESS	551 N. HARDING HIGHWAY
CITY, STATE, ZIP	VINELAND, NJ 08360
CONTACT	KAREN FORTE
TELEPHONE	856 697 1414
FAX	856 697 4842
E-MAIL	KARENFORTE@GROFFTRACTOR.COM
HOLD PRICING FIRM FOR ONE (1) YEAR	YES
UNIT COST FOR ONE (1) 2017 OR NEWER CASE 580N OR EQUIVALENT	\$ 86,517.00
MANUFACTURER	CASE
MODEL	580N
YEAR	2017 OR NEWER

Approved as to Form and Legality

Date

August 10, 2017

[Signature]
Deputy County Counsel

AWARD OF BID RECEIVED JUNE 28, 2017 TO GROFF TRACTOR NEW JERSEY LLC FOR ONE (1) 2017 OR NEWER CASE 580N LOADER BACKHOE FOR THE MERCER COUNTY DEPARTMENT OF TRANSPORTATION (D.O.T.) AND INFRASTRUCTURE, HIGHWAY DIVISION AND THE MERCER COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM. PERIOD: AUGUST 10, 2017 THROUGH AUGUST 9, 2018. AMOUNT NOT TO EXCEED: \$86,517.00 (CK09MERCER2017-13)

WHEREAS, the Mercer County Purchasing Department has advertised for bids for one (1) 2017 or Newer Case 580N Loader Backhoe for the Mercer County D.O.T., Highway Division and the Mercer County Cooperative Contract Purchasing System, as authorized by Resolution No. 2012-101, adopted February 9, 2012; and,

WHEREAS, two (2) sealed bids were received on June 28, 2017 in connection with the aforementioned procurement; and,

WHEREAS, the bid received from Groff Tractor New Jersey LLC, 551 N. Harding Highway, Vineland, NJ 08360 shall be awarded for one (1) 2017 or Newer Case 580N Loader Backhoe, for a period of one year in an amount not to exceed \$86,517.00; and,

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Clerk to the Board

RECORD OF VOTE													
FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.	FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.
Cannon	X					✓	Verrelli	X					
Cimino	X						Walter	X				✓	
Frisby	X						Colavita	X					
Koontz	X												

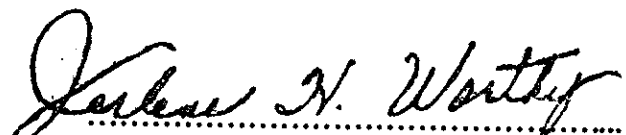
X—Indicates Vote Abs.—Absent N.V.—Not Voting
Res.—Resolution Moved Sec.—Resolution Seconded

-2-

WHEREAS, the Chief Financial Officer of Mercer County has certified in writing the availability of funds for the purposes set forth in this Resolution, said certification is on file with the Clerk to the Board; now, therefore,

BE IT RESOLVED, that the County Executive and Clerk to the Board be and are hereby authorized to execute said contracts when presented in a form approved by County Counsel; and,

BE IT FURTHER RESOLVED, that the Clerk to the Board shall forward a copy of this Resolution to the Mercer County Public Works Superintendent and Mercer County Purchasing Department for further distribution.


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Clerk to the Board

**SPECIFICATIONS FOR BID FOR ONE (1) 2017 OR NEWER CASE 580N OR EQUIVALENT LOADER
BACKHOE FOR THE MERCER COUNTY HIGHWAY DIVISION AND THE MERCER COUNTY
COOPERATIVE CONTRACT PURCHASING SYSTEM
DELIVER TO: 300 SCOTCH ROAD, WEST TRENTON, NJ 08628**

INTENT

The County of Mercer requests bids for One (1) 2017 or Newer Case 580N Loader Backhoe. The County requests the bid price to be held for one year. The County reserves the right to buy more than one backhoe during the contract year. Bids shall be for new, current year production equipment. Demonstrator, used or lesser model equipment will not be accepted. All references to brand name shall be interpreted as brand name or equivalent. The vendor must be a fully authorized factory dealer that shall have had the franchise for selling and distributing the machine they intend to bid for a period of five years and shall have a list of contractors and governmental agencies that have had this product in their possession and ownership. All questions shall be directed to the Purchasing Department, 609 989 6710. A required pre-build meeting will occur after award of bid. Bidders shall insert the cost for the loader backhoe and the County will award the bid based upon the total cost for the loader backhoe. The vendor shall have a full service facility within a 30 mile radius to supply ample parts and service thereby minimizing down time.

EXCEPTIONS

If bidding an equivalent manufacturer, provide the manufacturer's published literature and list all exceptions with descriptions of each exception.

A certificate of origin will be provided with the equipment upon delivery. Any questions regarding the bid must be directed to purchasing.

Upon delivery, vendors must provide set-up, operating training by an authorized manufacturer's representative and two sets of training manuals. All equipment shall include standard safety features.

As this is a cooperative bid, the awarded vendor(s) may provide the equipment herein bid upon to local governmental contracting units located within the County of Mercer without substitution or deviation from specifications, size, features, quality, price or availability as herein set forth. It is understood that orders will be placed directly by the contracting units, subject to the terms of the contract to be awarded by the County of Mercer, and that no additional service or delivery charges will be allowed. References to brand names shall be interpreted as brand or equivalent.

All equipment shall be delivered F.O.B destination with delivery charge included, within 90 days from receipt of purchase order. All equipment shall be delivered as stated above with to the **Mercer County Motor Pool at 300 Scotch Road, West Trenton, NJ 08628.**

WARRANTY

The awarded vendor shall provide the warranty as stated in the specifications.

AWARDED CONTRACTOR SHALL PROVIDE OPERATING TRAINING BY AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE UPON DELIVERY OF EQUIPMENT. VENDORS MUST SPECIFY THE MANUFACTURER'S CUT-OFF DATE.

VENDOR WILL HOLD PRICING FIRM FOR ONE YEAR

YES NO

SPECIFICATIONS FOR BID FOR ONE (1) 2017 OR NEWER CASE 580N LOADER BACKHOE OR EQUIVALENT

ENGINE

- The loader backhoe shall have a 4-cylinder, turbocharged diesel engine
- 207 cu. in. producing a minimum 89 net horsepower at 2200 rpm
- The engine shall provide a minimum SAE net torque rating of 305 ft-lbs at 1400 rpm.
- A parent metal bore block design for superior strength, no wet sleeves
- Torque Rise at rated speed 43%
- An internal oil cooler
- An integral water pump
- Liquid cooled protected to -34°
- A 12 volt electrical system with remote jumper terminals & master disconnect
- A minimum 160 amp alternator
- A single poly-V belt for fan and alternator. 7-blade, 19.7" suction fan
- An automatic self-adjusting belt tensioner
- Vertical spin-on engine oil filter & cast-iron oil pan
- Pressurized under piston oil nozzles
- 500 hour engine oil change interval
- Tier 4 Final certified, cooled EGR, w/diesel Oxidation Catalyst with SCR
- Dual cold-start 850 CCA batteries, engine glow plugs, no ether, block heater
- Two (2) 39 amp power plugs
- Aspirated dual stage air cleaner w/ spark arresting muffler

Comply Exactly: Yes_____ No_____

Exceptions:_____

FULLY SYNCHRONIZED TRANSMISSION

- The power train shall consist of a torque converter drive with a fully synchronized transmission
- 4 speeds in forward, 4 speeds in reverse
- Minimum travel speeds of 24 mph in forward, 29 mph in reverse
- Electric forward/reverse shuttle shift
- Planetary transmission gears
- Clutch disconnect button on shift lever
- Clutch disconnect button on loader control lever

Comply Exactly: Yes_____ No_____

Exceptions:_____

POWER TRAIN – FOUR-WHEEL DRIVE

- The loader backhoe power train shall be componentized
- Heavy duty axles
- On-the-go electro-hydraulic rear differential lock engagement
- Remote front axle pivot lubrication
- Lube for life drive shaft cross bearings
- Conventional differentials with outboard Planetaries
- Single, double rod steering cylinder
- Steering cylinder located behind axle
- On-the-go electrical 4-wheel drive engagement
- Full length driveshaft guard

Comply Exactly: Yes_____ No_____

Exceptions:_____

BRAKES

- The loader backhoe brakes shall be a multiple wet disk, fully hydraulic and located outboard
- Brakes shall be oil cooled, low effort, power boosted
- Brakes operated by two brake pedals which shall be suspended
- Maintenance free and self-adjusting
- Parking brake shall be SAHR type, switch operated
- Brakes must be serviceable without removing the axle assembly from the frame

Comply Exactly: Yes_____ No_____

Exceptions:_____

LOADER WITH JRB STYLE COUPLER AND G/P BUCKET

- The loader arms shall be heavy duty with in-line linkage
- The loader arms shall have an arch design for short turning circle
- Maximum turning diameter, brakes on 22'
- Cushioned dual parallel lift cylinders
- Cushioned dual parallel bucket cylinders, single cylinder not considered equal
- Bucket cylinders with reverse linkage minimizes - stress and twisting
- Dual cast dump links to bucket
- Full bucket rollover for dozing
- Full bucket rollover for stability in backhoe operation
- Automatic bucket self-leveling
- Return-to-dig
- Loader bucket shall be a maximum 82 inches wide
- Minimum 1.0 cubic yard heaped capacity with bolt-on edge
- Coupler shall be switch operated from within the cab
- Coupler must be capable of picking up existing attachments
- Factory installed Ride Control system

Comply Exactly: Yes_____ No_____

Exceptions:_____

BACKHOE – EXTENDAHOE

- The backhoe boom shall heavy duty fabricated “S” type
- The backhoe shall have greaseable pins in the swing tower to boom base
- Pro Control System to provide precise control and eliminate over-swing
- Replaceable bushings in the swing tower to boom base mounting pins
- Boom must be true “over-center” design for optimum weight distribution
- Mechanical bucket quick coupler with integral lift point
- Extendable dipper stick with straight-line visibility of bucket and clear view of operation
- An 1100-pound front mounted counterweight for extendahoe
- Stabilizers shall be fully retractable within the width of the tires
- Over-center design, provides travel stability and more compact, maneuverable unit
- 24” HD bucket, with “Smart Lock” teeth
- Minimum SAE dig depth with extendahoe for 24-in. level bottom 18’
- Minimum digging force bucket cylinder 11,334 pounds force
- Minimum digging force dipper cylinder 6,710 pounds force
- Minimum truck loading height of 14 feet 1 inches
- Maximum stabilizer spread in transport position of 7 feet 2 inches with standard pads
- Maximum stabilizer spread in work position of 9 feet 5 inches with standard pads. Critical for working small streets and within shoulder of highway
- Heavy duty cemetery/street rubber stabilizer pads
- Factory installed hammer hydraulics shall be provided w/foot switch
- Minimum SAE lift capacities, must be listed on manufacturers spec sheet

	<u>Boom Lift</u>	<u>Retracted</u>	<u>Extended</u>
a.	+12	2,644 lbs.	2,124 lbs
b.	+10	2,748 lbs.	2,172 lbs
c.	+8	2,761 lbs.	2,169 lbs
d.	+6	2,739 lbs.	2,173 lbs
	<u>Dipper Lift</u>		
e.	+12	4,139 lbs.	2,981 lbs
f.	+10	3,826 lbs.	2,823 lbs
g.	+8	3,910 lbs.	2,855 lbs
h.	+6	4,357 lbs.	3,010 lbs

Comply Exactly: Yes_____ No_____

Exceptions:_____

PERFORMANCE – LOADER WITH G/P BUCKET

- Minimum SAE dump cylinder breakout force of 10,620 pounds force
- Minimum SAE lift capacity to full height of 6,800 pounds
- Minimum SAE dump clearance at full height and 45 degree dump angle of 8 feet 10 inches
- Minimum SAE dump reach at full height and 45 degree dump angle of 31" inches
- Minimum hinge pin height 11 feet, 2 inches
- Minimum dig depth below ground 5 inches
- Maximum loader lowering time (power down) 2.6 seconds
- Maximum loader lowering time (return-to-dig) 3.6 seconds
- Maximum bucket dumping time 1.1 seconds
- Maximum bucket raising time to full height 4.6 seconds
- Minimum wheel base 84 inches
- Maximum overall transport width 7 feet 2 inches
- Maximum transport height 11'1"
- Maximum front tires are 12x16.5, 10PR
- Minimum rear tires are 19.5Lx24 10PR (R4)
- Minimum ground clearance at backhoe frame 15"
- Minimum operating weight 17,450 lbs.

Comply Exactly: Yes_____ No_____

Exceptions:_____

AXLES

- Rear axle is outboard planetary at end of each wheel hub
- Total rear axle reduction ratio of 16.0
- Rear axle dynamic operating load of 56,200 lbs
- Front axle is outboard planetary at end of each wheel hub
- Total front axle reduction ratio of 12.0
- Front axle dynamic operating load of 39,300 lbs

Comply Exactly: Yes_____ No_____

Exceptions:_____

OPERATOR ENVIRONMENT

- ROPS enclosed pressurized, and filtered all steel structure to meet OSHA regulations. Decibel rating no more than 72 DBA
- A minimum of four isolation mounts
- Insulation for maximum temperature and sound control
- Suspended brake pedals
- Suspended accelerator
- Electro-hydraulic rear differential lock
- The transmission shift lever within easy reach of the operator and integrated clutch disconnect button
- All glass surfaces free of rubber moldings
- Front and rear windshield wipers and washers
- Interior dome light
- Interior rear view mirror
- Retractable seat belt
- Deluxe cloth suspension seat
- Built-in molded cup holder
- A side console storage area
- A single handle loader control with top mounted clutch cut out button
- 4 individual adjustable 55 Watt lights - front and rear plus 1 on each side
- A forward/reverse power shuttle lever mounted on the steering column
- SAHR parking brake switch located on the instrument panel
- Instrumentation located to the right of the operator
- Accessory power plugs (2)
- An easy to swing seat to address backhoe controls
- Audible alarm, when swinging seat, to alert operator of transmission engagement
- Mechanical dual lever hoe controls with foot operated extendahoe
- The over-center backhoe release inside the cab, foot pedal operated, boom must be able to swing in either direction while locked
- Engine throttle control located within easy reach to the left of the operator
- Seat must have electronic safety device. Seat is to swivel 180 degrees and have audible alarm when turned 15-20 degrees to warn if machine is left in gear without parking brake (NO EXCEPTION – SAFETY DEVICE. This feature will be demonstrated prior to an award)
- Cab with factory heat, air conditioning, defroster, and left side door
- Factory tool box mounted on right exterior of machine
- 4-corner LED hide-away strobe package
- Deluxe cab package shall be provided with am/fm/wb radio
- Rear window shall be 3-section with the top 2 sliding down to open
- Both rear side windows shall be able to open fully and lock open

Comply Exactly: Yes_____ No_____

Exceptions:_____

INSTRUMENTATION

- Gauges
 - Engine water temperature gauge
 - Converter oil temperature gauge
 - Fuel
 - Tachometer/hour meter
 - Voltmeter
- Warning Lights
 - Air cleaner restriction
 - Alternator
 - Engine oil pressure
 - Hydraulic oil pressure bypass
 - Parking brake engagement
 - Rear axle fluid temperature sensing system
 - Low fuel
- Audible warning alarms for
 - Coolant temperature
 - Engine oil pressure
 - Parking brake engagement
 - Shuttle engagement with seat position in backhoe position
 - Back-up alarm
- Turn signal indicators
- Horn – dual switched front & rear

Comply Exactly: Yes_____ No_____

Exceptions:_____

HYDRAULICS

- The loader backhoe hydraulics shall be open center design for simultaneous Multifunction operation, circuits in parallel
- The loader backhoe hydraulics shall also include a single section cast iron gear pump, transmission driven
- 28.5 gpm @ 3000 psi
- Heavy duty hydraulic oil cooler
- Oil filter, spin-on, 7 micron
- Condition indicator light for filter
- Anti-cavitation valves in the dipper and loader circuit
- Pilot operated check valves for boom, dipper, and stabilizers
- Anti-rebound cushion valve to minimize over-swing and position the bucket for pin point accuracy to prevent spillage and boom vibration while operating in digging operations. This feature will be demonstrated prior to an award

Comply Exactly: Yes_____ No_____

Exceptions:_____

TIRES

- Maximum front tires are 12x16.5 10PR with one (1) matching spare
- Minimum rear tires are 19.5x24 10PR with one (1) matching spare

Comply Exactly: Yes_____ No_____

Exceptions:_____

SERVICEABILITY

- The loader backhoe shall be easy to service from ground level
- A tilt hood accessible to the engine with the loader arms raised or lowered
- Minimum 42 gallon side mounted fuel tank. Machine shall be delivered full
- Minimum 14 gallon side mounted hydraulic oil tank with sight gauge
- Minimum service capacities
 - Hydraulic system, total 29.5 gal.
 - Transmission 4WD total system 21 qt
 - Rear axle
 - Differential 14.4 qt
 - Planetaries (each) 1.6 qt
 - Engine oil w/ filter 14.4 qt
 - Cooling system w/ heater 17.8 qt
- Master battery disconnect with remote jumper terminals

Comply Exactly: Yes_____ No_____

Exceptions:_____

WARRANTY

- Three years or 3000 hours, whichever occurs first, full machine coverage on entire machine. Copy of Manufacturer’s Warranty provided with bid
- One operation/maintenance manual and one parts manual
- Operation, maintenance, and safety course upon delivery of the machine

Comply Exactly: Yes_____ No_____

Exceptions:_____

DELIVERY

- Within 90 days of receipt of purchase order to: County of Mercer, 300 Scotch Road, Bldg 4, West Trenton, NJ 08628
- Loader to be titled to the County of Mercer with registration and CG tags included. The title will state "County of Mercer"
- One (1) 55 gallon drum of DEF fluid

Comply Exactly: Yes_____ No_____

Exceptions:_____
