

FINANCE DEPARTMENT

Memo

August 8, 2023

Mr. Rob Brule
First Selectman
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

Re: Cooperative Purchasing-Sanitation Truck

Dear Mr. Brule:

In keeping with Section 3.08.010 of the Purchasing Ordinance- Cooperative Purchasing, the attached quotes were obtained from Sourcewell Contracts 060920-PMC with the intent to procure a 2024 Peterbuilt Model 520 Chasis and body for a Sanitary Truck. This replaces Vehicle # S20 License Plate 72WFD, as scheduled in the fleet Management Plan. The Purchasing Department, on behalf the Public Works Department, after due diligence and careful consideration, is respectfully seeking the Board's approval to Award the contract for the supply of the above mentioned item to **Peterbuilt** for \$388,683.00.

Funds will be available from Line Item 24207-54070 Vehicle Replacement.

Sincerely,

Shea Moses

Shea Moses
Purchasing Agent,
Town of Waterford

INTER-OFFICE MEMORANDUM

TOWN OF WATERFORD

To: Brandishea Moses, Purchasing Agent

From: Gary J. Schneider, Director of Public Works



Date: August 3, 2023

Re: Cooperative Purchases - Sourcewell

For over the past 10 years, the Department has participated in Sourcewell pricing for the purchase of Public Works vehicles and equipment.

What is Sourcewell? Sourcewell is a local government unit, public corporation and public agency under the laws of the state of Minnesota.

Participating agencies include all eligible government agencies nationwide. The Town has been issued a Sourcewell identification number (8247).

I have included excerpts from their webpage (www.sourcewell-mn.gov/) that explains who and what they do.

The following pieces of equipment / vehicles were approved for purchase in FY24. We request to use the cooperative purchasing through Sourcewell.

H-35 - Dump Truck - Allegiance Trucks (quote dated 6/19/23 - \$263,962)

S-20 - Sanitation Truck - Peterbilt (quote dated 6/8/23 - \$388,683)

Public Works respectfully requests to be on the next agenda of the Board of Selectmen.

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2024 - 2028

TOTAL NO. OF 153

Approved 5.10.2023

Number Vehicles to be
Reduced
Total Budget

FLEET Asset ID	TOWN Asset ID	License Plate No.	DOBOT REPL	Agency Name	Vehicle Assigned to	Rep Cycle in YRS	Class Description	Asset Acq'd Year	In-Service Date	Gross Vehicle Cost	Brand	Model	Serial #	2024	2025	2026	2027	2028	Current Mileage at last date	Total Repair Costs to date	COMMENTS
1005	101180	80WFD		PUBLIC WORKS		20	5 TON DUMP TRUCK	2012	03/28/12	\$195,832	International	CUMMINS/PREADER WITH CRANE	1HTVCAZF8ECH121003	272,695					521,324 mi	\$1,542.75	
520	101282	72WFD		PUBLIC WORKS		7	SIDE LOAD REFUSE	2016	01/11/2015	\$250,200	PETERBILT	330 SDE LOADER	3BPFLJ00VGF1000319	375,222					9,420 mi	\$2,192.85	



520



June 8th, 2023

Town of Waterford
1000 Hartford Road
Waterford, Connecticut 06385
Garon VanOverloop

Garon:

Attached are the spec sheets for a Model year 2024 Peterbilt Model 520 with a Labrie Right Hand, 33 yard Automated Refuse Body.

The cost of the completed unit is as follows:

Peterbilt Model 520 Chassis - \$208,693.00

Labrie Refuse Body - \$179,990.00

Total Delivered - \$388,683.00

Garon, these prices are current prices less all taxes. As we get closer to the point where we decide to order this chassis we would need to re-price at that date in order to have the prices match with the delivery date.

As always Garon, please don't hesitate to call or e-mail me with any questions or concerns regarding this.

Thank You for allowing The Peterbilt Store – Hartford to provide you with a quote for your business.

John J. Martin

THEPETESTORE.COM

CONNECTICUT · DELAWARE · FLORIDA · GEORGIA · MARYLAND · MASSACHUSETTS
RHODE ISLAND · SOUTH CAROLINA · TENNESSEE · VIRGINIA



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Waterford, Connecticut 06385
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Garon VanOverloop
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Office Phone: 860-444-5864
Email: gvanoverloop@waterfordct.org

Vehicle Summary

Unit		Chassis	
Model:	Model 520	Fr Axle Load (lbs):	18180
Type:	Full Truck	Rr Axle Load (lbs):	46000
Description 1:	520 Side Loader	G.C.W. (lbs):	64180
Description 2:	Copy of 520 Side Loader		
Application		Road Conditions:	
Intended Serv.:	Refuse/On-Highway	Class A (Highway)	100
Commodity:	Refuse, Scrap, Recycling	Class B (Hwy/Mtn)	0
		Class C (Off-Hwy)	0
		Class D (Off-Road)	0
Body		Maximum Grade:	
Type:	Curbside Recycler		6
Length (ft):	24	Wheelbase (in):	222
Height (ft):	13.5	Overhang (in):	70
Max Laden Weight (lbs):	1000	Fr Axle to BOC (in):	0.1
Trailer		Cab to Axle (in):	221.9
No. of Trailer Axles:	0	Cab to EOF (in):	291.9
Type:		Overall Comb. Length (in):	349.6
Length (ft):	0	Special Req.	
Height (ft):	0		
Kingpin Inset (in):	0		
Corner Radius (in):	0		
Restrictions			
Length (ft):	40		
Width (in):	102		
Height (ft):	13.5		

Approved by: _____

Date: _____

Note: All sales are F.O.B. designated plant of manufacture.

Price Level: January 1, 2023
Deal: 520 Side Loader
Printed On: 5/31/2023 6:04:53 AM

Date: May 31, 2023
Quote Number: QUO-726487-Y7Z6B5



Sales Code	Std/ Opt	Description	\$ List	Weight
Base Model				
0005201	S	Model 520 Peterbilt's Model 520 is built to withstand the harsh demands of the refuse industry. The rugged, aluminum cab delivers best-in-class durability for increased uptime and lap seam construction on a zinc-coated steel sub-frame for corrosion resistance. Bulkhead-style doors provide years of watertight performance. This low-cab forward vehicle adds a new dimension of productivity and versatility. An industry-leading, 65-degree cab tilt enhances maintenance and serviceability. Body installation is cost effective and efficient and the center console provides convenient access to body control integration points.	220,522	16,475
0091180	S	Refuse, Scrap, Recycling	0	0
0093035	S	Refuse/On-Highway Truck or tractor which hauls refuse, recycled material, etc. Includes roll-on/roll-off container movement, as well as hauling refuse from transfer stations to, but not into, landfills.	0	0
0095240	S	Curbside Recycler A lift-equipped truck used to load residential recycling bins into the truck body. Recycling material is removed by the body by hydraulic tilt.	0	0
0098170	S	United States Registry Canadian Registry Package Requires Air Conditioning Excise Tax Canada, Speedometer to be KPH ipo MPH, Daytime Running Lights and Rubber Battery Pad in Bottom of Battery Box.	0	0
Configuration				
0200700	S	Not Applicable Secondary Manufacturer	0	0
Frame & Equipment				
0514160	O	10-3/4" Steel Rails 306-342" 10.75x3.5x.375 Dimension, 2,136,000 RBM; Yield Strength: 120,000 psi. Section Modulus: 17.8 cubic inches. Weight: 1.74 lbs/inch pair	441	238
0601500	O	Full Steel Inner Liner	963	706
0611330	O	Zinc Coated Anti Corrosion Treated Frame Rails Requires Frame Rail Code. Zinc Phosphate coating will replace the standard frame rail primer and provide added corrosion prevention for your customer's operating in severe conditions or in climates where vehicle rust is common.	394	4
0620110	O	FEPTO Provision 9In Bumper Extension Includes 1350 Series Front Drive PTO Attachment Provision, Radiator with PTO Cut-Out in Grille, Radiator Protection Sleeve, and Bumper Extension	1,693	42
0644090	S	EOF Square without Crossmember End-of-frame square without crossmember. For use with body builder installed crossmember.	0	0
0651090	S	Omit Rear Mudflaps and Hangers	0	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
Front Axle & Equipment				
1011360	O	Dana Spicer D2000F 20,000 lb, 3.5 in. Drop Factory front axle alignment to improve handling & reduce tire wear. Zerk fittings on tie rod ends, king pins, & draglink ball joints for ease of maintenance & help extend service life of components. Cognis EMGARD® FE 75W-90 synthetic axle lube provides over 1% fuel economy improvement. Reduces wear & extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions & withstand the stress from high temperatures, extending component life.	491	0
1114030	S	Taper Leaf Springs, Shocks 20,000 lb Standard with Heavy Resistance Shocks.	0	0
1243010	S	Power Steering Sheppard M100 Dual Gear For use with 16,000 to 20,000 lb. axle ratings. Glidekote splines on steering shaft extend service life of components.	0	0
1354840	O	PHP10 Iron PreSet PLUS Hubs PHP10 iron PreSet PLUS hubs have a fully integrated spindle nut design, an optimized wheel spacer, magnetic fill plug on drive and trailer hubs for inspection of metal particles in lubricant, with a long life oil seal and bearings are pre-adjusted. Use with Front Axle.	-580	84
1380230	O	Dana Spicer 5" Drop IPO 3.5", Front Axle 5" drop (127 MM) provides lower chassis suspension and profile. Offers maximum maneuverability and the light weight solution. Available for a variety of brakes.	0	0
1380240	O	Dana Spicer Wide Track IPO Standard Dana Spicer wide track front axles offer added stability and deliver greater turn angles. 71in KPI IPO 69in for E1202, E1322, E1462, D2000F front axles.	57	15
1380280	O	Bendix Air Cam Front Drum Brakes 16.5x7 For use with 16,000 lbs to 23,000 lbs steer axles or front drive axles. Includes automatic slack adjusters & outboard mounted brake drums.	682	0
1390540	O	Dust Shields, Cam Brakes, Front Axle	31	4
1391410	O	Gusseted Cam Brackets, Steer Axle	28	0
1392970	O	Heavy Duty Cam Bushings, Steer Axle	31	0
Rear Axle & Equipment				
1523440	S	Dana Spicer D46-172 46,000 LBS Dana Spicer D46-172 46,000 lbs tandem drive axles offer efficiency improvement, axle weight reduction and reduced lube quantity.	0	0
1616300	O	PHP10 Iron PreSet PLUS Hubs	-670	0
1660000	O	Dust Shields For Cam Brakes, Drive Axle(s)	71	4
1672630	O	Differential Lock Both Axles Air Rocker Switch Occupies the Space of One Gauge	2,057	60
1680440	O	Refuse Service Brakes, Steer And Drive Axles	0	0

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		Designed for heavy-duty applications for refuse industry, providing long brake life, safety and performance.		
1680450	O	Rear Brake Camshaft Reinforcement Rear brake camshaft reinforcement helps guard against wear and corrosion.	65	9
1680460	O	Heavy Wall, Drive Axle(s)	1,050	88
1680470	O	Lube Pump, Drive Axle(s) Used to circulate oil within the axle housing. Recommended for use on 46,000 or greater axles used in refuse or severe service applications.	537	36
1680490	O	Gusseted Cam Brackets, Drive Axle(s)	72	2
1680500	S	SBM Valve Full trucks require a spring brake modulation (SBM) system for emergency braking application. This system requires an SBM valve and a relay valve with spring brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle spring brakes if a failure exists in the rear air system.	0	0
1682710	O	Anti-Lock Braking System (ABS) 6S6M ABS-6. Includes air braking system.	469	35
1684200	S	Synthetic Axle Lubricant All Axles Peterbilt heavy duty models include Fuel Efficient Cognis EMGARD FE75W-90 which provides customers performance advantages over current synthetic lubricants with reduced gear wear and extended maintenance intervals, resulting in increased uptime. In addition, the lubricant provides improved fluid flow to protect gears in extreme cold conditions and withstand the stress from high temperatures, extending component life.	0	0
1687010	O	Bendix Air Cam Rear Drum Brakes 16.5x7 Bendix Air Cam Rear Drum Brakes to fit all heavy haul, construction, refuse and highway truck and tractor applications. Includes Automatic Slack Adjusters & Outboard Mounted Brake Drums.	-406	0
1688110	O	Heavy Duty Cam Bushings, Drive Axle(s)	61	0
1705570	O	Ratio 5.57 Rear Axle	0	0
1824410	O	Hendrickson HMX EX 460 46,000 LBS., 54" Haulmax, 70K Creep Rating. Includes Traax Rod as standard, option 1920905 is not needed or available. Progressive load spring system easily adjusts to the load for an enhanced combination of empty-ride quality and loaded stability.	1,628	-67
1921475	O	Shock Absorbers For HMX EX Suspension	514	31
Engine & Equipment				
2074512	S	PACCAR PX-9 360@2000 GOV@2200 1150@1200 Productivity (2021 Emissions) N21350 C121 64...Maximum Accelerator Pedal Ve N21370 C128 64...Maximum Cruise Speed (P059) N21460 C132 1400...Max PTO Speed (P046)	0	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
		N21520 C133 5.....Timer Setting (P030)		
		N21610 C188 39....Low Ambient Temperature Thre		
		N21620 C189 60....Intermediate Ambient Tempera		
		N21630 C190 80....High Ambient Temperature Thr		
		N21550 C206 35....Engine Load Threshold (P516)		
		N21340 C209 120...Hard Maximum Speed Limit (P1		
		N21510 C225 YES...Enable Idle Shutdown Park Br		
		N21450 C231 NO....Gear Down Protection (P026)		
		N21570 C233 NO....Idle Shutdown Manual Overrul		
		N21440 C234 NO....Engine Protection Shutdown (		
		N21480 C238 NO....Auto Engine Brake in Cruise		
		N21470 C239 NO....Cruise Control Auto Resume (		
		N21430 C333 0.....Reserve Speed Limit Offset (		
		N21410 C334 0.....Maximum Cycle Distance (N202		
		N21590 C382 YES...Enable Hot Ambient Automatic		
		N21500 C395 0.....Expiration Distance (N209)		
		N21530 C396 YES...Enable Impending Shutdown Wa		
		N21540 C397 60....Timer For Impending Shutdown		
		N21320 C399 120...Standard Maximum Speed Limit		
		N21400 C400 252...Reserve Speed Function Reset		
		N21420 C401 10....Maximum Active Distance (N20		
		N21330 C402 0.....Expiration Distance (N207)		
2091130	S	VMUX Electronics Architecture	0	0
2091305	O	Engine Idle Shutdown Timer Enabled	0	0
2091315	O	Enable EIST Ambient Temp Override	0	0
2091372		Eff EIST NA Expiration Miles	0	0
2091640		Effective VSL Setting NA	0	0
2092013	O	Typical Operating Speed 60 MPH	0	0
2092033	O	Powertrain Optimized for Balance Best analysis for vehicles where service includes frequent start and stop cycles.	0	0
2140200	O	CARB Engine Idling Compliance PACCAR PX-7, PX-9 and MX, Cummins X15 and ISX diesel engines will include the required factory installed serialized sticker on the drivers door to identify them as meeting the NOx idling standard.	0	0
2140450	O	Remote PTO/Throttle, 12-Pin Eng Bay Remote Control Provision	103	0
2140670	O	EPA Emission Warranty	0	0
2147460	S	Bed Plate for PX-9, L9N Engines Designed to increase engine longevity by incorporating a stiffener bracket on the bottom side of the engine, inside the oil pan, for	0	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
		additional reinforcement. Required for all PX-9/L9N refuse applications and recommended for other high load 9-liter applications.		
2513060	S	PACCAR 160 Amp Alternator, Brushed PACCAR 160 AMP alternator, brushed producing 160 Amps at road speed and 100 Amps at idle.	0	0
2521090	O	Immersion Type Block Heater 110-120V Standard location for 2.1M and 1.9M models is left-hand under cab, Model 520 is in bumper, and for Model 220 it is at the driver step. Plug includes a weather-proof cover that protects the receptacle. This pre-heater keeps the coolant in the engine block from freezing when the engine is not running.	86	2
2522110	O	PACCAR 12V Starter, N/A PACCAR MX Engines PACCAR 12-volt electrical system. With centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded.	0	0
2538040	S	3 PACCAR Premium 12V Dual Purpose Batt 2190 CCA Threaded stud type terminal. Stranded copper battery cables are double aught (00) or larger to reduce resistance.	0	0
2539740	O	Kissling Battery Disconnect Switch 300AMP Dual Tab Mounted on Battery Box	160	3
2621000	S	2-Speed Fan Clutch For Frequent Start/Stops A 2-speed fan clutch is ideal for vocational applications where the fan clutch engagement time exceeds 10% of the engine run time. When the fan clutch is disengaged, the fan still rotates at 15-25% of the engine RPM. This fan rotation provides crucial airflow to the engine and draws virtually no horsepower.	0	0
2723210	S	18.7 CFM Air Compressor N/A X15. Furnished on engine. Teflon lined stainless steel braided compressor discharge line.	0	0
2812140	O	C-Brake By Jacobs, PX-9 Features a dedicated cam lobe design for optimum power and three-stage engine brake operation.	2,688	90
2921110	S	PACCAR Fuel/Water Separator Standard Service PACCAR Fuel/Water separator standard service intervals. High efficiency media protects critical engine components.	0	0
2921210	S	No Fluid Heat Option for Fuel Filter	0	0
2921320	O	12V Heat for Fuel Filter Fuel filter heaters help ensure a seamless flow of diesel from the tank to the combustion chamber. Eliminating any possibility of moisture freezing within the fuel filter while simultaneously increasing the fuel temperature for atomization within the engine.	68	0
3010400	O	Engine Protection Shutdown w/ Label Includes oil pressure, oil temperature, coolant temperature, and intake manifold temperature.	10	0
3114270	S	High Efficiency Cooling System Cooling module is a combination of steel and aluminum components, with aluminum connections to maximize performance and cooling capability. Silicone radiator & heater hoses enhance value, durability, & reliability. Constant tension band clamps reduce leaks. Chevron Delo Extended Life Coolant (NOAT) extends maintenance intervals reducing	0	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
		maintenance costs. Anti-freeze effective to -30 degrees F helps protect the engine. Low coolant level sensor warns of low coolant condition to prevent engine damage. Radiator Size by Model: 367 1325 sq in, 367 HH Fepto 1325 sq in, 365 Fepto 1183 sq in, 365 Full Frame Extension 1000 sq in, 520 1202 sq in, 579 1456.9 sq in, 535/536/537/548 949.3 sq in, 537/548 VOC 1000.3 sq in, 389/367 HH 1604 sq in, 365/567 1379 sq in.		
3120320	O	Bugscreen	140	0
3120450	S	Stainless Steel Grille	0	0
3261980	S	Heavy Duty Air Cleaner Molded rubber air intake connections with lined stainless steel clamps seal to prevent contaminants in air intake.	0	0
3365300	S	Exhaust Vertical LH DPF/SCR LH Back of Cab Vertical.	0	0
3381770	O	Curved Tip Standpipe(s)	43	1
3387870	S	24" Ht, 5" Dia Chrome, Clear Coat Standpipe(s)	0	0
Transmission & Equipment				
4052970	O	Allison 4500 RDS-P Transmission, Gen 6 Rugged Duty Series	18,543	390
4210190	O	1810 HD Driveline, 1 Midship Bearing 4.5in x .180 wall tubing	-389	15
4216590	O	1710 Driveline Interaxle For tandem rear axles	-101	-5
4252890	O	Allison FuelSense 2.0 Not Desired	-106	0
4252950	O	Omit Allison Neutral At Stop	0	0
4256020	S	Console Mounted Push Button Shifter	0	0
4256740	O	Allison 6-Speed Configuration, Wide Ratio Gears Allison 4500 transmission only	0	0
4256870	O	Allison Output Function S Neutral Indicator Allison output function S Neutral Indicator for PTO. Required on Refuse Packer Applications. With this configuration NEUTRAL only, PTO engagement is permitted only when the transmission is in Neutral. Once the transmission is in Neutral, the PTO is automatically engaged and fast idle is initiated when the PTO switch is on. In addition with this configuration Pack-on-the-fly, the PTO is automatically engaged and fast idle is initiated when the PTO switch is On concurrently with shifting of the transmission to Neutral.	0	0
Air & Trailer Equipment				
4510210	S	Bendix AD-HF EP Air Dryer, Heater	0	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
		Coalescing filter, extended purge. Bendix AD-HF air filters protects the life of your engine system and components. Proven PuraGuard oil coalescing technology in the the air dryer cartridge. This oil coalescing filter ensures the removal of oil and oil aerosols before they can contaminate the moisture removing desiccant.		
4540420	S	Nylon Chassis Hose	0	0
4542320	O	Central Location For Air Tank Drain Valves Wire braid hose to air tanks. (Not available with optional drain valves.)	411	4
4543320	S	Steel Painted Air Tanks All air tanks are steel with painted finish except when Code 4543330 Polish Aluminum Air Tanks is also selected (then exposed air tanks outside the frame rails will be polished aluminum). Peterbilt will determine the optimal size and location of required air tanks. Narratives requesting a specific air tank size or location will not be accepted for factory installation. See ECAT to determine number or location of air tanks installed.	0	0
Tires & Wheels				
5056510	O	FF: MN 20ply 315/80R22.5 X Works Z Efficiency Rating: Poor An all-position, on/off-road tire, this tire provides unsurpassed durability against road hazards. Diameter= 42.9 inches; SLR= 19.8 inches	425	-2
5156510	O	RR: MN 20ply 315/80R22.5 X Works Z Efficiency Rating: Fair Diameter= 42.9 inches; SLR= 19.8 inches	3,672	384
5190008	S	Code-rear Tire Qty 08	0	0
5220520	O	FF: Alcoa 89U637 22.5 X 9.00 High Polish Aluminum, Ultra ONE technology that saves more than 50 lbs. versus a comparable steel wheel. Built for refuse, logging, mining and other heavy haul applications that demand a tough wheel. Each wheel offers a 10,000 lbs. load rating.	296	-110
5320530	O	RR: Alcoa 89U647 22.5X9.00 High Polish Aluminum. Ultra ONE wheels with MagnaForce alloy.	1,860	-216
5390008	S	Code-rear Rim Qty 08	0	0
5400100	O	Alligator V2B Double Sealing Valve Caps On Tire Valve stems. Inflate thru valve.	30	0
Fuel Tanks				
5556130	O	26" Aluminum 80 Gallon Fuel Tank LH BOC Paddle handle filler cap with threadless filler neck. Top draw fuel plumbing reduces chance of introducing air into the fuel system during low fuel level conditions due to the central placement of fuel pickup tube. Wire braid fuel lines increase durability & reduce potential for leaks.	203	13
5604080	O	Location LH BOC 80 Gallon	0	0

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5650160	O	Fuel Tank Fill Forward Not available on under cab fuel tanks	0	0
5650490	S	Fuel Cooler Required with single fuel tank	0	0
5651720	O	Locate BOC Fuel Tank(s) Rearward As Far As possible	0	0
5652890	S	DEF Tank Mounted LH BOC Models 220 and 520 mounted left hand back-of-cab.	0	0
5652980	S	DEF To Fuel Ratio Between 1:1 And 2:1	0	0
5655069	S	DEF Tank 520, 7.3 Gal	0	0

Battery Box & Bumper

6011080	O	Aluminum Battery Box RH Frame Mtd Back Of Fender 8" Below top of frame	577	0
6030150	O	Rubber Battery Pad In Bottom of (1) Battery Box Mat in box that holds batteries only	24	4
6112850	O	Aluminum Bumper Swept-Back Ends Polished Requires bumper extension, includes two front tow eyes with pins	437	-53
6132900	O	Screen Over Air Intake Opening In Bumper	12	2

Cab & Equipment

6501090	O	53" LCF ProBilt Cab RH Drive Use with auto-trans. Includes steel frames with aluminum and fiberglass panels, all aluminum doors, dual door stops, door locks, tinted safety glass thru-out, cab and door mounted entry grab handles, 65 degree hydraulic tilt, stainless steel grille, dual rear cab fenders, service module BOC (cab tilt pump, oil fill and dipstick, coolant fill and check, fluid fill and dipstick for auto trans), door mounted armrests, power windows, doghouse full insulation, rubber floor mats, ergonomic center control console, removable instrument panel, Driver Information Display, LED backlit gauges, adjustable side flip-down interior sunvisor, 16" steering wheel with integrated horn button, tilt/telescopic adjustable column, over-door storage, driver and passenger side cup holders, USB charging port and 12VDC charging outlet, header includes HVAC controls, rear cab corner windows, 18" bolt-on step on each side, self-canceling turn signals and Front Directional and Side Mounted Turn Signals.	1,361	0
6540160	S	Thermal Insulation Package in Cab The thermal insulation package is designed to make the cab thermally efficient in extreme temperatures. The model 520 adds insulation surrounding the doghouse to reduce engine heat transmitted to the cab.	0	0
6800500	S	4.5" Rubber Flares On Cab And wheel well fenders	0	0
6914160	O	Sears C2 Plus Premium Driver Seat Enhanced for operator comfort with a 1" thicker foam cushion with flat bolsters for greater surface area coverage. Countoured metal seat and back pans add to overall ergonomic design with air lumbar support.	341	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
		Comes with quick attach seat and back cushions for ease of service and replacement.		
6921720	S	Peterbilt Passenger Seat	0	0
6931120	O	Seat Belt Color Orange IPO Standard Black	10	0
6939400	O	Air Ride Driver	389	43
6939430	O	Mid Back Driver	76	0
6939460	O	Fabric Driver	50	0
6939510	S	Non-Air Ride Passenger	0	0
6939540	S	Low Back Passenger	0	0
6939570	S	Vinyl Passenger	0	0
7000000	S	Gray Interior Color Includes ABS Gray Headliner & Rear Cab Panel, Gray Vinyl Engine Tunnel Cover. For LH, RH, and Dual Steer Dual Seated Power Windows are standard on both doors. For Dual Steer RH stand-up the LH Window is Power and the RH Window is a Manual Sliding window.	0	0
7001520	S	Adjustable Steering Column - Tilt/Telescope	0	0
7001620	S	Steering Wheel With Peterbilt Logo Steering Wheel with embossed Peterbilt logo over horn button.	0	0
7040020	O	Diamond Plate Floor Covering on Driver side floor in place of Rubber Mat. In Dual Steer application RH Diamond Plate covering is standard. Single drive applications the Diamond Plate is optional.	46	6
7110680	S	Exterior Cab Entry Grabhandle Textured; NFPA compliant. Available on Day Cab specifications only.	0	0
7220130	S	Rear Window Back of Cab Standard Tint 18.5in X 54in	0	0
7230350	S	2-Piece Flat Windshield	0	0
7322010	S	Combo Fresh Air Heater/Air Conditioner With radiator mounted condenser, dedicated side window defrosters, Bi-Level Heater/Defroster Controls, 54,500 BTU/HR, and silicone heater hoses.	0	0
7410040	O	Outside Sunvisor - Stainless Steel Not available with 2.1M high roof sleeper.	366	4
7560100	O	Mirrors SSTL Each Side Heated and Motorized with Switch on Door.	-30	-7
7561450	O	(4) Convex 8 inch SSTL Mirrors; (2) Center These optional convex mirrors provide enhanced rearward visibility by allowing the driver to see the operation of front-end loader arms or other obstacles that may interfere with operation in refuse services. The	132	4

Price Level: January 1, 2023
Deal: 520 Side Loader
Printed On: 5/31/2023 6:04:53 AM

Date: May 31, 2023
Quote Number: QUO-726487-Y7Z6B5



Sales Code	Std/ Opt	Description	\$ List	Weight
		mirrors have an off-center mounting that maximizes adjustability for field of view. Dual door stops are included with these mirrors for added protection to the mirrors during cab entry and exit. Includes 4 convexed 8" stainless steel mirrors and 2 center mounted under (heated) and 2 center mounted over mirror bracket (non-heated). Includes dual door stops.		
7620620	O	(2) Air Horns 24.5" Chrome - Round w/Horn Shields	528	8
7722120	O	ConcertClass, AM/FM, Weatherband, 3.5 Aux	467	10
7725740	O	Midlevel Speaker Package For Cab (4) Speakers	135	6
7728030	O	Radio Mute When In Reverse For automatic or automated transmission	0	0
7728040	O	Bluetooth Phone and Audio Requires USB Port	62	0
7728050	O	USB Port	62	0
7788055	S	SmartLINQ Remote Diagnostics SmartLINQ is Peterbilts proprietary remote diagnostics service which monitors the engine and aftertreatment for diagnostic codes providing real-time code analysis maximizing vehicle uptime and strengthening the fleets partnership with their dealer. SmartLINQ provides fault coverage for over 800 codes, a customizable email notification for 116 codes plus a web portal to manage your entire fleet included at no additional charge. SmartLINQ is compatible with any telematics system and doesnt require a specific fleet management system. For those whose customers utilize PeopleNet, the pre-wire with remote diagnostics will provide a more integrated solution utilizing the existing SmartLINQ modem. For those whose customers utilize other fleet services products, the existing pre-wire option for the other fleet service devices will continue to be available. Standard on Class 8 engines and available on Models 348, 337, 330 and 325 with a PX-9, PX-7 or Cummins Westport natural gas engine.	0	0
7788057	O	24 Months SmartLINQ Subscription PACCAR PX Engines.	0	0
7851330	O	Cab Tilt Pump Air Assist	512	0
7851870	O	Rain Gutters Over Driver and Passenger Doors	76	8
7852150	S	Peterbilt Pantograph Windshield Wipers With intermittent feature.	0	0
7900090	O	Triangle Reflector Kit, Ship Loose Florescent triangle emergency road flares are designed to meet and exceed all DOT standards.	30	13
7900970	S	Backup Alarm Wiring To EOF	0	0
8011850	S	Transmission Oil Temperature (Main) Located in Digital Cluster Display.	0	0

Price Level: January 1, 2023
Deal: 520 Side Loader
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Sales Code	Std/ Opt	Description	\$ List	Weight
8021315	S	Air Restriction Indicator Mounted on exhaust stanchion	0	0
8021810	O	Brake Application Air Pressure (Tractor) Located in Digital Cluster Display.	0	0
8031120	O	Warning Light Battery Disconnect, Switch Engaged Marker light external mounted	14	0
8070390	O	Engine Hourmeter Gauge Located in Digital Cluster Display	0	0
8070450	O	Engine PTO Hourmeter Gauge Located in Digital Cluster Display	0	0
8070810	O	Engine Manifold Pressure (Turbo Boost) Located in Digital Cluster Display	0	0
8070820	O	Engine Percent Torque Located in Digital Cluster Display	0	0
8070860	O	Main Instrumentation Panel Digital Cluster 7" Display includes: Physical (Analog) - Speedometer, Tachometer, Oil Pressure, Coolant Temp and Display Gauges - Fuel Level, DEF Level, DPF Filter Status, Fuel Economy, Volts Telltale, OAT and Primary Air Pressure, Secondary Air Pressure for air brake trucks.	0	0
8070940	O	Voltmeter Gauge (MD/520 Only) Located in Digital Cluster Display	0	0
8110090	S	Headlights Single Rectangular Halogen	0	0
8120570	S	(5) LED Clearance With (2) LED Marker Lights Includes (5) lights mounted on roof of cab and (1) cab side marker light mounted in front of each cab door	0	0
8133900	S	None Furnished Stop/Tail/Backup Lights Available with full truck only, not available with tractor	0	0
8133960	O	Daytime Running Lights The brake interlock turns the daytime running lights off when the parking brakes are engaged. This is required on all Canadian vehicles.	61	0
8134160	O	Self-Canceling Turn Signal	0	0
8140690	O	Brake Lights Activated by Park Brake	51	0

Paint

8530770	O	(1) Color Axalta Two Stage - Cab/Hood Base Coat/Clear Coat N85020 A - L6035EY GREEN N85500 CAB ROOF L6035EY GREEN N85200 FRAME L0001EA BLACK	0	0
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Shipping Destination

Options Not Subject To Discount

9400090	S	Peterbilt Class 8 Standard Coverage 1 year/100,000 Miles (160,000 km)	0	0
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Price Level: January 1, 2023
Deal: 520 Side Loader
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Date: May 31, 2023
Quote Number: QUO-726487-Y7Z6B5



Sales Code	Std/ Opt	Description	\$ List	Weight
9400094	S	PACCAR PX-9 Standard Coverage 2 yrs/250,000 mi (402,336 km)/6,250 hrs	0	0
9407147	O	Fuel Price Index Factor \$243 NET	243	0
9408703	O	Base Warr: Emissions 5YR/100K MI-EPA Engine	0	0
Miscellaneous				
9409057	O	State Registry: Connecticut	0	0

Promotions

Order Comments

Price Level: January 1, 2023
Deal: 520 Side Loader
Printed On: 5/31/2023 6:04:53 AM

Date: May 31, 2023
Quote Number: QUO-726487-Y7Z6B5



Total List Price (W/O Freight & Warranty & Surcharges)	\$264,132
Marketing and Service Support Fee	\$1,395
Prepaid Freight	\$4,300
Total Surcharge/Options Not Subject To Discount	\$243
Total Weight	18,383

Prices and Specifications Subject to Change Without Notice.

Unpublished options may require review/approval.
Dimensional and performance data for unpublished options may vary from that displayed in CRM.

PRICING DISCLAIMER

While we make every effort to maintain the web site to preserve pricing accuracy, prices are subject to change without notice. Although the information in this price list is presented in good faith and believed to be correct at the time of printing, we make no representations or warranties as to the completeness or accuracy of this information. We reserve the right to change, delete or otherwise modify the pricing information which is represented herein without any prior notice. We carefully check pricing specifications, but occasionally errors can occur, therefore we reserve the right to change such prices without notice. We disclaim all liability for any errors or omissions in the materials. In no event will we be responsible for any damages of any nature whatsoever from the reliance upon information from these materials. Please check your order prebills to confirm your pricing information

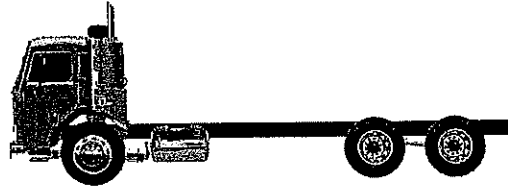


Shipping Destinations

Intermediate Destination: NONE

Final Destinations	Quantity
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FRAME RAKE

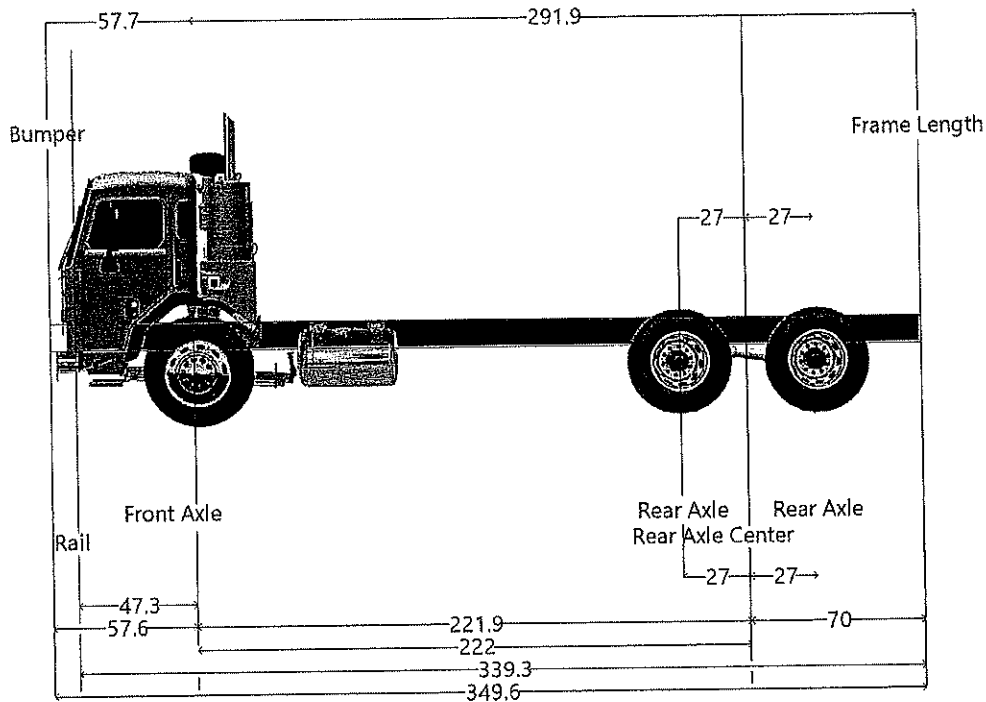


The listed heights should be considered approximations due to variations which may occur in component manufacturing processes, spring set, and the way in which the vehicle is loaded.

Component	Sales Code	Description	Laden	Unladen
Frame	0514160	10-3/4" Steel Rails 306-342"	10.8	10.8
Front Spring	1114030	Taper Leaf Springs, Shocks 20,000 lb	7.4	9.7
Front Axle Drop 3.5"	1011360	Dana Spicer D2000F 20,000 lb, 3.5 in. Drop	-1.5	-1.5
Height Adj.		25mm Front Spring Spacer Blocks	1.0	1.0
Front Tires	5056510	FF: MN 20ply 315/80R22.5 X Works Z	19.8	20.5
Front Frame Height			37.4	40.4
Frame	0514160	10-3/4" Steel Rails 306-342"	10.8	10.8
Subframe				
Suspension	1824410	Hendrickson HMX EX 460 46,000 LBS., 54"	11.5	13.6
Rear Tires	5156510	RR: MN 20ply 315/80R22.5 X Works Z	19.8	21.2
Rear Frame Height			42.1	45.5
Frame Rake			4.7	5.1
Frame Rake Slope (%)			2.1	2.3

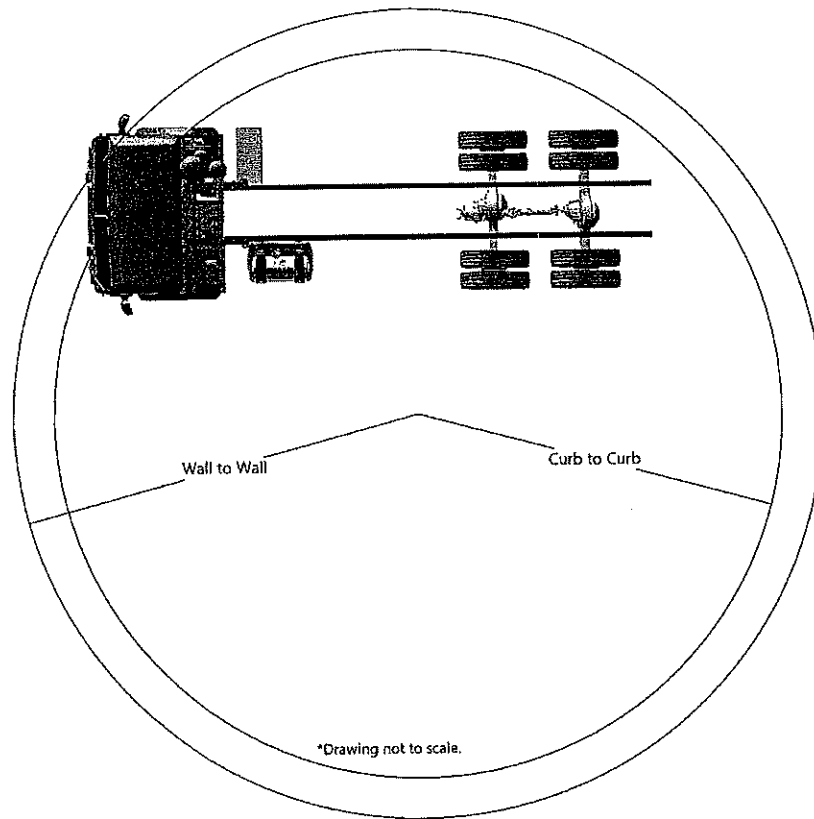
*These characteristics are considered to be out of standard range:
Laden rake more than 1% of wheelbase from level (positive or negative).*

HORIZONTAL DIMENSIONS



Dimension	Measurement	Start	End
Axle Spacing	54	195	249
Bumper to Back of Cab	57.7	-57.6	0.1
Bumper to Front Axle	57.6	-57.6	0
Bumper to Front Frame	10.3	-57.6	-47.3
Cab to End of Frame	291.9	0.1	292
Cab to Rear Axle	221.9	0.1	222
Effective Bumper to Back Of Cab	57.7	-57.6	0.1
Frame Length	339.3	-47.3	292
Front Axle to Back of Cab	0.1	0	0.1
Front of Frame to Axle	47.3	-47.3	0
Load Space	291.9	0.1	292
Overall Length	349.6	-57.6	292
Overhang	70	222	292
Pusher Offset #1	0	195	222
Pusher Offset #2	0	195	222
Pusher Offset #3	0	195	222
Tag Offset	0	222	249
Wheelbase	222	0	222

TURNING RADIUS



LEFT TURN RADIUS		RIGHT TURN RADIUS	
Curb to Curb	31.1	Curb to Curb	32.0
Wall to Wall	33.9	Wall to Wall	34.8

VEHICLE SUMMARY			
Truck	Model 520 / Full Truck	Wheelbase	222
Axle	Dana Spicer D2000F 20,000 lb, 3.5 in. Drop	Weight	18383
Tire	FF: MN 20ply 315/80R22.5 X Works Z		
Wheel	FF: Alcoa 89U637 22.5 X 9.00 High Polish		

VEHICLE WEIGHT RATING

FRONT AXLE COMPONENTS

Component	Sales Code	Description	Ratings
Axle	1011360	Dana Spicer D2000F 20,000 lb, 3.5 in. Drop	20,000
Springs	1114030	Taper Leaf Springs, Shocks 20,000 lb	20,000
Power Steering	1243010	Power Steering Sheppard M100 Dual Gear	20,000
Hubs, Drums	1354840	PHP10 Iron PreSet PLUS Hubs	23,000
Brakes			
Tires	5056510	FF: MN 20ply 315/80R22.5 X Works Z	18,180
Wheels	5220520	FF: Alcoa 89U637 22.5 X 9.00 High Polish	20,000

Requested Front (Lbs): 0
 Minimum: 11,000
 Maximum: 18,180

The front axle weight rating cannot exceed 18180

REAR AXLE COMPONENTS

Component	Sales Code	Description	Ratings
Axle	1523440	Dana Spicer D46-172 46,000 LBS	46,000
Hubs, Drums	1616300	PHP10 Iron PreSet PLUS Hubs	78,000
Service Brakes			
Spring Brakes			0
Suspension	1824410	Hendrickson HMX EX 460 46,000 LBS., 54"	46,000
Tires	5156510	RR: MN 20ply 315/80R22.5 X Works Z	66,160
Wheels	5320530	RR: Alcoa 89U647 22.5X9.00 High Polish	80,000

Requested Rear (Lbs): 0
 Minimum: 20,000
 Maximum: 46,000

The rear axle weight rating cannot exceed 46000

[LABEL:RPTVW_GROSSCOMBINATIONWEIGHTRATING

GCWR (lbs)	64,180
Min	64,180
Max	64,180

The Gross Combination Weight Rating rating cannot exceed 64180

Sanitary Equipment Company Inc. Source Well #112014-LEG

"Do It Right The First Time"

Date: May 22, 2023

25 Industry Drive / PO Box 26006
West Haven, CT. 06516
Phone 203-933-9599 Fax 203-933-4271
www.sanitaryequipment.com

Scott Black (30)
Phone 203 927-9070
scott@sanitaryequipment.com
Ref #

Quote for:
Mr. Garon VanOverloop
Town of Waterford

Subject:
Labrie Right Hand

Waterford, CT

Line	QTY	DESCRIPTION	AMOUNT
1.)	1.00	Labrie Right Hand 33 Yard Automated Refuse Body	\$170,079.96
2.)		with The Following Equipment:	Included
3.)	1.00	Electric over Hydraulic Valve	Included
4.)		Work at Idle (900) RPM with Seven Second Cycle Time	Included
5.)	1.00	Hydraulic oil heater	Included
6.)	1.00	Amber strobe lights front of body	Included
7.)	1.00	Amber strobe lights mounted on upper tailgate	Included
8.)	1.00	Spill Shield Behind Grabber	Included
9.)		Multi Cycle Packing 3 to 6 Strokes	Included
10.)		Front Mount Denison Hydraulic Piston Pump	Included
11.)		80 Gallon Aluminum Hydraulic Oil Tank with Sight and Temp Gage	Included
12.)		Ergonomic Arm Rest with Air Joy Stick Controls	Included
13.)	1.00	Crusher Panel	Included
14.)	1.00	Hardox Hopper Floor Liner Hardox 450 Steel	Included
15.)		High Mount and Low Mount Rear Lighting FMVSS Standards	Included
16.)		Auto Lock And Unlock Hydraulic Tail Gate	Included
17.)		Body Grit Blasted / Painted with chrome yellow Imron 5000 Paint Including	Included
18.)	1.00	Clean Out Shovel and Broom with Brackets	Included
19.)	1.00	20 lb Fire Extinguisher	Included
20.)	1.00	All LED Lights instead of Standard Body Lighting Including Mid B	Included
21.)		All Fuses Replaced By Auto-Reset Circuit Breakers	Included
22.)	1.00	Grabber Counter	Included
23.)	1.00	Triple 3rd eye Camera System	Included
24.)	1.00	Steel Surcharge	Included
Options Available Unless a QTY is entered on the left, the items below are an ADDITIONAL COST			
25.)	1.00	Heavy Duty Arm with 6x6 Laced Chain	\$2,200.00
26.)	1.00	Ziebart Undercoating	\$1,700.00
27.)	1.00	Stainless Toolbox 24x18x18	\$2,780.00
28.)	1.00	OnSpots Installed by SECI	\$880.00
29.)	1.00	Work Light Curbside over arm-LED	
SUBTOTAL w/ SELECTED OPTIONS			\$ 177,639.96

QUOTE NOTES:

Source Well Contract Number 112014-LEG

Single Color Body Paint Code L663ET

Thank You for the Opportunity to Quote our Products and Services

TAX RATE

SALES TAX

12% FET TAX

FREIGHT

TOTAL

\$	177,639.96
\$	-
\$	-
\$	2,350.00
\$	179,989.96

This proposal may be withdrawn by S.E.C.I. if not accepted with a deposit > Wed - 06/21/23

PAYMENT TERMS: Balance Due at Time of Delivery unless otherwise noted. Equipment and Materials remain the property of S.E.C.I. until paid in full.

Accepted By: _____ Company: _____ Date: _____

Thank you, for the opportunity to quote you on your service needs



Sourcewell Customer Pricing CY2021-2024

Peterbilt Motors Company Contract #060920-PMC September 1, 2022 REVISION

Model	Model 220	Model 220EV	Model 535	Model 536	Model 537	Model 548
Example MSRP/Base List Price	\$100,794	\$510,000	\$99,051	\$102,158	\$103,943	\$118,554
CY2021-2024 Sourcewell DISCOUNT	5%	15%				
Sourcewell Customer Price	\$95,754	\$433,500	\$84,193	\$86,834	\$88,352	\$100,771

Model	Model 365	Model 367	Model 567	Model 579	Model 579EV	Model 389	Model 520	Model 520EV
List Price	\$194,999	\$209,086	\$202,862	\$213,784	\$670,000	\$209,300	\$220,522	\$690,000
CY2021-2024 Sourcewell DISCOUNT	25%							
Sourcewell Customer Price	\$146,249	\$156,815	\$152,147	\$160,338	\$502,500	\$156,975	\$165,392	\$517,500

*Customer price includes cab & chassis, factory-freight, Pre-Delivery-Inspection (PDI) and dealer profit.

*Customer price **does not** include any flooring/interest charges, any applicable taxes (i.e. FET), and any components/services provided by the Peterbilt dealer after delivery from Peterbilt factory (i.e. body, manuals, training, doc fees, local-delivery, additional fuel/def, extended coverages, etc.)

- Due to global supply chain cost increases, all trucks are subject to a commodity surcharge of up to 10% of truck (cab & chassis) price (List price less Sourcewell Discount)
- All orders must be submitted at current price level. Current price level is 1/1/23. Note, this might change for second half of 2023.
- Canadian Peterbilt Dealers have the option to order chassis in Canadian or US Dollars.
- If ordered in US dollars, Canadian Peterbilt Dealers have the option to lock-in the exchange rate and have the truck invoiced in Canadian Dollars prior to build date. (typically 2 weeks before build date).
- Peterbilt/PACCAR-Canada provides Peterbilt Dealers the updated exchange-rate on a daily basis.
- PACCAR Treasury uses a daily average along with 6 month futures.



Solicitation Number: RFP #060920

CONTRACT

This Contract is between Sourcewell, 202 12th Street Northeast, P.O. Box 219, Staples, MN 56479 (Sourcewell) and Peterbilt Motors Company, 1700 Woodbrook Street, Denton, TX 76205 (Vendor).

Sourcewell is a State of Minnesota local government agency and service cooperative created under the laws of the State of Minnesota (Minnesota Statutes Section 123A.21) that offers cooperative procurement solutions to government entities. Participation is open to federal, state/province, and municipal governmental entities, higher education, K-12 education, nonprofit, tribal government, and other public entities located in the United States and Canada.

Vendor desires to contract with Sourcewell to provide equipment, products, or services to Sourcewell and the entities that access Sourcewell's cooperative purchasing contracts (Participating Entities).

1. TERM OF CONTRACT

- A. **EFFECTIVE DATE.** This Contract is effective upon the date of the final signature below.
- B. **EXPIRATION DATE AND EXTENSION.** This Contract expires August 1, 2024, unless it is cancelled sooner pursuant to Article 24. This Contract may be extended up to one additional one-year period upon request of Sourcewell and with written agreement by Vendor.
- C. **SURVIVAL OF TERMS.** Articles 11 through 16 survive the expiration or cancellation of this Contract.

2. EQUIPMENT, PRODUCTS, OR SERVICES

- A. **EQUIPMENT, PRODUCTS, OR SERVICES.** Vendor will provide the Equipment, Products, or Services as stated in its Proposal submitted under the Solicitation Number listed above. Vendor's Equipment, Products, or Services Proposal (Proposal) is attached and incorporated into this Contract.

All Equipment and Products provided under this Contract must be new/current model. Vendor may offer close-out or refurbished Equipment or Products if they are clearly indicated in

Vendor's product and pricing list. Unless agreed to by the Participating Entities in advance, Equipment or Products must be delivered as operational to the Participating Entity's site.

This Contract offers an indefinite quantity of sales, and while substantial volume is anticipated, sales and sales volume are not guaranteed.

B. **WARRANTY.** Vendor warrants that all Equipment, Products, and Services furnished are free from liens and encumbrances, and are free from defects in design, materials, and workmanship. In addition, Vendor warrants the Equipment, Products, and Services are suitable for and will perform in accordance with the ordinary use for which they are intended. Vendor's dealers and distributors must agree to assist the Participating Entity in reaching a resolution in any dispute over warranty terms with the manufacturer. Any manufacturer's warranty that is effective past the expiration of the Vendor's warranty will be passed on to the Participating Entity.

C. **DEALERS, DISTRIBUTORS, AND/OR RESELLERS.** Upon Contract execution, Vendor will make available to Sourcewell a means to validate or authenticate Vendor's authorized dealers, distributors, and/or resellers relative to the Equipment, Products, and Services related to this Contract. This list may be updated from time-to-time and is incorporated into this Contract by reference. It is the Vendor's responsibility to ensure Sourcewell receives the most current version of this list.

3. PRICING

All Equipment, Products, or Services under this Contract will be priced as stated in Vendor's Proposal.

When providing pricing quotes to Participating Entities, all pricing quoted must reflect a Participating Entity's total cost of acquisition. This means that the quoted cost is for delivered Equipment, Products, and Services that are operational for their intended purpose, and includes all costs to the Participating Entity's requested delivery location.

Regardless of the payment method chosen by the Participating Entity, the total cost associated with any purchase option of the Equipment, Products, or Services must always be disclosed in the pricing quote to the applicable Participating Entity at the time of purchase.

A. **SHIPPING AND SHIPPING COSTS.** All delivered Equipment and Products must be properly packaged. Damaged Equipment and Products may be rejected. If the damage is not readily apparent at the time of delivery, Vendor must permit the Equipment and Products to be returned within a reasonable time at no cost to Sourcewell or its Participating Entities. Participating Entities reserve the right to inspect the Equipment and Products at a reasonable time after delivery where circumstances or conditions prevent effective inspection of the Equipment and Products at the time of delivery.

Vendor's Dealer will perform a Pre-Delivery Inspection (PDI) which is included in the price of the vehicle. Any issues with the Equipment or Products will be addressed at PDI and corrected through the Vendor warranty process.

Sourcwell may declare the Vendor in breach of this Contract if the Vendor intentionally delivers substandard or inferior Equipment or Products. In the event of the delivery of nonconforming Equipment and Products, the Participating Entity will notify the Vendor as soon as possible and the Vendor will replace nonconforming Equipment and Products with conforming Equipment and Products that are acceptable to the Participating Entity.

B. SALES TAX. Each Participating Entity is responsible for supplying the Vendor with valid tax-exemption certification(s). When ordering, a Participating Entity must indicate if it is a tax-exempt entity.

C. HOT LIST PRICING. At any time during this Contract, Vendor may offer a specific selection of Equipment, Products, or Services at discounts greater than those listed in the Contract. When Vendor determines it will offer Hot List Pricing, it must be submitted electronically to Sourcwell in a line-item format. Equipment, Products, or Services may be added or removed from the Hot List at any time through a Sourcwell Price and Product Change Form as defined in Article 4 below.

Hot List program and pricing may also be used to discount and liquidate close-out and discontinued Equipment and Products as long as those close-out and discontinued items are clearly identified as such. Current ordering process and administrative fees apply. Hot List Pricing must be published and made available to all Participating Entities.

4. PRODUCT AND PRICING CHANGE REQUESTS

Vendor may request Equipment, Product, or Service changes, additions, or deletions at any time. All requests must be made in writing by submitting a signed Sourcwell Price and Product Change Request Form to the assigned Sourcwell Contract Administrator. This form is available from the assigned Sourcwell Contract Administrator. At a minimum, the request must:

- Identify the applicable Sourcwell contract number;
- Clearly specify the requested change;
- Provide sufficient detail to justify the requested change;
- Individually list all Equipment, Products, or Services affected by the requested change, along with the requested change (e.g., addition, deletion, price change); and
- Include a complete restatement of pricing documentation in Microsoft Excel with the effective date of the modified pricing, or product addition or deletion. The new pricing restatement must include all Equipment, Products, and Services offered, even for those items where pricing remains unchanged.

A fully executed Sourcewell Price and Product Request Form will become an amendment to this Contract and be incorporated by reference.

5. PARTICIPATION, CONTRACT ACCESS, AND PARTICIPATING ENTITY REQUIREMENTS

A. PARTICIPATION. Sourcewell's cooperative contracts are available and open to public and nonprofit entities across the United States and Canada; such as federal, state/province, municipal, K-12 and higher education, tribal government, and other public entities.

The benefits of this Contract should be available to all Participating Entities that can legally access the Equipment, Products, or Services under this Contract. A Participating Entity's authority to access this Contract is determined through its cooperative purchasing, interlocal, or joint powers laws. Any entity accessing benefits of this Contract will be considered a Service Member of Sourcewell during such time of access. Vendor understands that a Participating Entity's use of this Contract is at the Participating Entity's sole convenience and Participating Entities reserve the right to obtain like Equipment, Products, or Services from any other source.

Vendor is responsible for familiarizing its sales and service forces with Sourcewell contract use eligibility requirements and documentation and will encourage potential members to join Sourcewell. Sourcewell reserves the right to add and remove Participating Entities to its roster during the term of this Contract.

B. PUBLIC FACILITIES. Vendor's employees may be required to perform work at government-owned facilities, including schools. Vendor's employees and agents must conduct themselves in a professional manner while on the premises, and in accordance with Participating Entity policies and procedures, and all applicable laws.

6. PARTICIPATING ENTITY USE AND PURCHASING

A. ORDERS AND PAYMENT. To access the contracted Equipment, Products, or Services under this Contract, a Participating Entity must clearly indicate to Vendor that it intends to access this Contract; however, order flow and procedure will be developed jointly between Sourcewell and Vendor. Typically, a Participating Entity will issue an order directly to Vendor's Dealer, referencing Vendor's contract number. If a Participating Entity issues a purchase order, it may use its own forms, but the purchase order should clearly note the applicable Sourcewell contract number. All Participating Entity orders under this Contract must be issued prior to expiration of this Contract; however, Vendor performance, Participating Entity payment, and any applicable warranty periods or other Vendor or Participating Entity obligations may extend beyond the term of this Contract.

Vendor's acceptable forms of payment are included in Attachment A. Participating Entities will be solely responsible for payment and Sourcewell will have no liability for any unpaid invoice of any Participating Entity.

B. **ADDITIONAL TERMS AND CONDITIONS/PARTICIPATING ADDENDUM.** Additional terms and conditions to a purchase order may be negotiated between a Participating Entity and Vendor, such as job or industry-specific requirements, legal requirements (e.g., affirmative action or immigration status requirements), or specific local policy requirements. Some Participating Entities may require the use of a Participating Addendum; the terms of which will be worked out directly between the Participating Entity and the Vendor. Any negotiated additional terms and conditions must never be less favorable to the Participating Entity than what is contained in this Contract.

C. **PERFORMANCE BOND.** If requested by a Participating Entity, Vendor's Dealer will provide a performance bond that meets the requirements set forth in the Participating Entity's order.

D. **SPECIALIZED SERVICE REQUIREMENTS.** In the event that the Participating Entity requires service or specialized performance requirements (such as e-commerce specifications, specialized delivery requirements, or other specifications and requirements) not addressed in this Contract, the Participating Entity and the Vendor may enter into a separate, standalone agreement, apart from this Contract. Sourcewell, including its agents and employees, will not be made a party to a claim for breach of such agreement.

E. **TERMINATION OF ORDERS.** Participating Entities may terminate an order, in whole or in part, immediately upon notice to Vendor in the event of any of the following events:

1. The Participating Entity fails to receive funding or appropriation from its governing body at levels sufficient to pay for the goods to be purchased;
2. Federal, state, or provincial laws or regulations prohibit the purchase or change the Participating Entity's requirements; or
3. Vendor commits any material breach of this Contract or the additional terms agreed to between the Vendor and a Participating Entity.

F. **GOVERNING LAW AND VENUE.** The governing law and venue for any action related to a Participating Entity's order will be determined by the Participating Entity making the purchase.

7. CUSTOMER SERVICE

A. **PRIMARY ACCOUNT REPRESENTATIVE.** Vendor will assign an Account Representative to Sourcewell for this Contract and must provide prompt notice to Sourcewell if that person is changed. The Account Representative will be responsible for:

- Maintenance and management of this Contract;
- Timely response to all Sourcewell and Participating Entity inquiries; and
- Business reviews to Sourcewell and Participating Entities, if applicable.

B. BUSINESS REVIEWS. Vendor must perform a minimum of one business review with Sourcewell per contract year. The business review will cover sales to Participating Entities, pricing and contract terms, administrative fees, supply issues, customer issues, and any other necessary information.

8. REPORT ON CONTRACT SALES ACTIVITY AND ADMINISTRATIVE FEE PAYMENT

A. CONTRACT SALES ACTIVITY REPORT. Each calendar quarter, Vendor must provide a contract sales activity report (Report) to the Sourcewell Contract Administrator assigned to this Contract. A Report must be provided regardless of the number or amount of sales during that quarter (i.e., if there are no sales, Vendor must submit a report indicating no sales were made).

The Report must contain the following fields:

- Customer Name (e.g., City of Staples Highway Department);
- Customer Physical Street Address;
- Customer City;
- Customer State/Province;
- Customer Zip Code;
- Customer Contact Name;
- Customer Contact Email Address;
- Customer Contact Telephone Number;
- Sourcewell Assigned Entity/Participating Entity Number;
- Item Purchased Description;
- Item Purchased Price;
- Sourcewell Administrative Fee Applied; and
- Date Purchase was invoiced/sale was recognized as revenue by Vendor.

B. ADMINISTRATIVE FEE. In consideration for the support and services provided by Sourcewell, the Vendor will pay an administrative fee to Sourcewell on all Equipment, Products, and Services provided to Participating Entities. The Administrative Fee must be included in, and not added to, the pricing. Vendor may not charge Participating Entities more than the contracted price to offset the Administrative Fee.

The Vendor will submit a check payable to Sourcewell for the administrative fee amount stated in the Proposal multiplied by the total number of trucks purchased by Participating Entities under this Contract during each calendar quarter. Payments should note the Sourcewell-assigned contract number in the memo and must be mailed to the address above "Attn:

Accounts Receivable." Payments must be received no later than 45 calendar days after the end of each calendar quarter.

Vendor agrees to cooperate with Sourcewell in auditing transactions under this Contract to ensure that the administrative fee is paid on all items purchased under this Contract.

In the event the Vendor is delinquent in any undisputed administrative fees, Sourcewell reserves the right to cancel this Contract and reject any proposal submitted by the Vendor in any subsequent solicitation. In the event this Contract is cancelled by either party prior to the Contract's expiration date, the administrative fee payment will be due no more than 30 days from the cancellation date.

9. AUTHORIZED REPRESENTATIVE

Sourcewell's Authorized Representative is its Chief Procurement Officer.

Vendor's Authorized Representative is the person named in the Vendor's Proposal. If Vendor's Authorized Representative changes at any time during this Contract, Vendor must promptly notify Sourcewell in writing.

10. ASSIGNMENT, AMENDMENTS, WAIVER, AND CONTRACT COMPLETE

A. **ASSIGNMENT.** Neither the Vendor nor Sourcewell may assign or transfer any rights or obligations under this Contract without the prior consent of the parties and a fully executed assignment agreement. Such consent will not be unreasonably withheld.

B. **AMENDMENTS.** Any amendment to this Contract must be in writing and will not be effective until it has been fully executed by the parties.

C. **WAIVER.** If either party fails to enforce any provision of this Contract, that failure does not waive the provision or the right to enforce it.

D. **CONTRACT COMPLETE.** This Contract contains all negotiations and agreements between Sourcewell and Vendor. No other understanding regarding this Contract, whether written or oral, may be used to bind either party.

E. **RELATIONSHIP OF THE PARTIES.** The relationship of the parties is one of independent contractors, each free to exercise judgment and discretion with regard to the conduct of their respective businesses. This Contract does not create a partnership, joint venture, or any other relationship such as master-servant, or principal-agent.

11. LIABILITY

Vendor must indemnify, save, and hold Sourcewell and its Participating Entities, including their agents and employees, harmless from any claims or causes of action, including attorneys' fees, arising out of the performance of this Contract by the Vendor or its agents or employees; this indemnification includes injury or death to person(s) or property alleged to have been caused by some defect in the Equipment, Products, or Services under this Contract to the extent the Equipment, Product, or Service has been used according to its specifications.

12. AUDITS

Sourcewell reserves the right to review the books, records, documents, and accounting procedures and practices of the Vendor relevant to this Contract for a minimum of 6 years from the end of this Contract. This clause extends to Participating Entities as it relates to business conducted by that Participating Entity under this Contract.

13. GOVERNMENT DATA PRACTICES

Vendor and Sourcewell must comply with the Minnesota Government Data Practices Act, Minnesota Statutes Chapter 13, as it applies to all data provided by or provided to Sourcewell under this Contract and as it applies to all data created, collected, received, stored, used, maintained, or disseminated by the Vendor under this Contract.

If the Vendor receives a request to release the data referred to in this article, the Vendor must immediately notify Sourcewell and Sourcewell will assist with how the Vendor should respond to the request.

14. INDEMNIFICATION

As applicable, Vendor agrees to indemnify and hold harmless Sourcewell and its Participating Entities against any and all suits, claims, judgments, and costs instituted or recovered against Sourcewell or Participating Entities by any person on account of the use of any Equipment or Products by Sourcewell or its Participating Entities supplied by Vendor in violation of applicable patent or copyright laws.

15. INTELLECTUAL PROPERTY, PUBLICITY, MARKETING, AND ENDORSEMENT

A. INTELLECTUAL PROPERTY

1. *Grant of License.* During the term of this Contract:

- a. Sourcewell grants to Vendor a royalty-free, worldwide, non-exclusive right and license to use the Trademark(s) provided to Vendor by Sourcewell in advertising and promotional materials for the purpose of marketing Sourcewell's relationship with Vendor.

b. Vendor grants to Sourcewell a royalty-free, worldwide, non-exclusive right and license to use Vendor's Trademarks in advertising and promotional materials for the purpose of marketing Vendor's relationship with Sourcewell.

2. *Limited Right of Sublicense.* The right and license granted herein includes a limited right of each party to grant sublicenses to its and their respective distributors, marketing representatives, and agents (collectively "Permitted Sublicensees") in advertising and promotional materials for the purpose of marketing the Parties' relationship to Participating Entities. Any sublicense granted will be subject to the terms and conditions of this Article. Each party will be responsible for any breach of this Article by any of their respective sublicensees.

3. *Use; Quality Control.*

a. Sourcewell must not alter Vendor's Trademarks from the form provided by Vendor and must comply with Vendor's removal requests as to specific uses of its trademarks or logos.

b. Vendor must not alter Sourcewell's Trademarks from the form provided by Sourcewell and must comply with Sourcewell's removal requests as to specific uses of its trademarks or logos.

c. Each party agrees to use, and to cause its Permitted Sublicensees to use, the other party's Trademarks only in good faith and in a dignified manner consistent with such party's use of the Trademarks. Upon written notice to the breaching party, the breaching party has 30 days of the date of the written notice to cure the breach or the license will be terminated.

4. *Termination.* Upon the termination of this Contract for any reason, each party, including Permitted Sublicensees, will have 30 days to remove all Trademarks from signage, websites, and the like bearing the other party's name or logo (excepting Sourcewell's pre-printed catalog of vendors which may be used until the next printing). Vendor must return all marketing and promotional materials, including signage, provided by Sourcewell, or dispose of it according to Sourcewell's written directions.

B. **PUBLICITY.** Any publicity regarding the subject matter of this Contract must not be released without prior written approval from the Authorized Representatives. Publicity includes notices, informational pamphlets, press releases, research, reports, signs, and similar public notices prepared by or for the Vendor individually or jointly with others, or any subcontractors, with respect to the program, publications, or services provided resulting from this Contract.

C. **MARKETING.** Any direct advertising, marketing, or offers with Participating Entities must be approved by Sourcewell. Materials should be sent to the Sourcewell Contract Administrator assigned to this Contract.

D. **ENDORSEMENT.** The Vendor must not claim that Sourcewell endorses its Equipment, Products, or Services.

16. GOVERNING LAW, JURISDICTION, AND VENUE

Minnesota law governs this Contract. Venue for all legal proceedings out of this Contract, or its breach, must be in the appropriate state court in Todd County or federal court in Fergus Falls, Minnesota.

17. FORCE MAJEURE

Neither party to this Contract will be held responsible for delay or default caused by acts of God or other conditions that are beyond that party's reasonable control. A party defaulting under this provision must provide the other party prompt written notice of the default.

18. SEVERABILITY

If any provision of this Contract is found to be illegal, unenforceable, or void then both Sourcewell and Vendor will be relieved of all obligations arising under such provisions. If the remainder of this Contract is capable of performance, it will not be affected by such declaration or finding and must be fully performed.

19. PERFORMANCE, DEFAULT, AND REMEDIES

A. **PERFORMANCE.** During the term of this Contract, the parties will monitor performance and address unresolved contract issues as follows:

1. *Notification.* The parties must promptly notify each other of any known dispute and work in good faith to resolve such dispute within a reasonable period of time. If necessary, Sourcewell and the Vendor will jointly develop a short briefing document that describes the issue(s), relevant impact, and positions of both parties.
2. *Escalation.* If parties are unable to resolve the issue in a timely manner, as specified above, either Sourcewell or Vendor may escalate the resolution of the issue to a higher level of management. The Vendor will have 30 calendar days to cure an outstanding issue.
3. *Performance while Dispute is Pending.* Notwithstanding the existence of a dispute, the Vendor must continue without delay to carry out all of its responsibilities under the Contract that are not affected by the dispute. If the Vendor fails to continue without delay to perform its responsibilities under the Contract, in the accomplishment of all undisputed work, any additional costs incurred by Sourcewell and/or its Participating Entities as a result of such failure to proceed will be borne by the Vendor.

B. **DEFAULT AND REMEDIES.** Either of the following constitutes cause to declare this Contract, or any Participating Entity order under this Contract, in default:

1. Nonperformance of contractual requirements, or
2. A material breach of any term or condition of this Contract.

Written notice of default and a reasonable opportunity to cure must be issued by the party claiming default. Time allowed for cure will not diminish or eliminate any liability for liquidated or other damages. If the default remains after the opportunity for cure, the non-defaulting party may:

- Exercise any remedy provided by law or equity, or
- Terminate the Contract or any portion thereof, including any orders issued against the Contract.

20. INSURANCE

A. **REQUIREMENTS.** At its own expense, Vendor must maintain insurance policy(ies) in effect at all times during the performance of this Contract with insurance company(ies) licensed or authorized to do business in the State of Minnesota having an "AM BEST" rating of A- or better, with coverage and limits of insurance not less than the following:

1. *Workers' Compensation and Employer's Liability.*

Workers' Compensation: As required by any applicable law or regulation.

Employer's Liability Insurance: must be provided in amounts not less than listed below:

Minimum limits:

\$500,000 each accident for bodily injury by accident

\$500,000 policy limit for bodily injury by disease

\$500,000 each employee for bodily injury by disease

2. *Commercial General Liability Insurance.* Vendor will maintain insurance covering its operations, with coverage on an occurrence basis, and must be subject to terms no less broad than the Insurance Services Office ("ISO") Commercial General Liability Form CG0001 (2001 or newer edition), or equivalent. At a minimum, coverage must include liability arising from premises, operations, bodily injury and property damage, independent contractors, products-completed operations including construction defect, contractual liability, blanket contractual liability, and personal injury and advertising injury. All required limits, terms and conditions of coverage must be maintained during the term of this Contract.

Minimum Limits:

\$1,000,000 each occurrence Bodily Injury and Property Damage

\$1,000,000 Personal and Advertising Injury

\$2,000,000 aggregate for Products-Completed operations

\$2,000,000 general aggregate

3. *Commercial Automobile Liability Insurance.* During the term of this Contract, Vendor will maintain insurance covering all owned, hired, and non-owned automobiles in limits of liability not less than indicated below. The coverage must be subject to terms

no less broad than ISO Business Auto Coverage Form CA 0001 (2010 edition or newer), or equivalent.

Minimum Limits:

\$1,000,000 each accident, combined single limit

4. *Umbrella Insurance.* During the term of this Contract, Vendor will maintain umbrella coverage over Workers' Compensation, Commercial General Liability, and Commercial Automobile.

Minimum Limits:

\$2,000,000

5. *Professional/Technical, Errors and Omissions, and/or Miscellaneous Professional Liability.* During the term of this Contract, Vendor will maintain coverage for all claims the Vendor may become legally obligated to pay resulting from any actual or alleged negligent act, error, or omission related to Vendor's professional services required under this Contract.

Minimum Limits:

\$2,000,000 per claim or event

\$2,000,000 – annual aggregate

6. *Network Security and Privacy Liability Insurance.* During the term of this Contract, Vendor will maintain coverage for network security and privacy liability. The coverage may be endorsed on another form of liability coverage or written on a standalone policy. The insurance must cover claims which may arise from failure of Vendor's security resulting in, but not limited to, computer attacks, unauthorized access, disclosure of not public data – including but not limited to, confidential or private information, transmission of a computer virus, or denial of service.

Minimum limits:

\$2,000,000 per occurrence

\$2,000,000 annual aggregate

Failure of Vendor to maintain the required insurance will constitute a material breach entitling Sourcewell to immediately terminate this Contract for default.

B. CERTIFICATES OF INSURANCE. Prior to commencing under this Contract, Vendor must furnish to Sourcewell a certificate of insurance, as evidence of the insurance required under this Contract. Prior to expiration of the policy(ies), renewal certificates must be mailed to Sourcewell, 202 12th Street Northeast, P.O. Box 219, Staples, MN 56479 or sent to the Sourcewell Contract Administrator assigned to this Contract. The certificates must be signed by a person authorized by the insurer(s) to bind coverage on their behalf. All policies must include there will be no cancellation, suspension, non-renewal, or reduction of coverage without 30 days' prior written notice to the Vendor.

Upon request, Vendor must provide to Sourcewell copies of applicable policies and endorsements, within 10 days of a request. Failure to request certificates of insurance by Sourcewell, or failure of Vendor to provide certificates of insurance, in no way limits or relieves Vendor of its duties and responsibilities in this Contract.

C. **ADDITIONAL INSURED ENDORSEMENT AND PRIMARY AND NON-CONTRIBUTORY INSURANCE CLAUSE.** Vendor agrees to list Sourcewell and its Participating Entities, including their officers, agents, and employees, as an additional insured under the Vendor's commercial general liability insurance policy with respect to liability arising out of activities, "operations," or "work" performed by or on behalf of Vendor, and products and completed operations of Vendor. The policy provision(s) or endorsement(s) must further provide that coverage is primary and not excess over or contributory with any other valid, applicable, and collectible insurance or self-insurance in force for the additional insureds.

D. **WAIVER OF SUBROGATION.** Vendor waives and must require (by endorsement or otherwise) all its insurers to waive subrogation rights against Sourcewell and other additional insureds for losses paid under the insurance policies required by this Contract or other insurance applicable to the Vendor or its subcontractors. The waiver must apply to all deductibles and/or self-insured retentions applicable to the required or any other insurance maintained by the Vendor or its subcontractors. Where permitted by law, Vendor must require similar written express waivers of subrogation and insurance clauses from each of its subcontractors.

E. **UMBRELLA/EXCESS LIABILITY.** The limits required by this Contract can be met by either providing a primary policy or in combination with umbrella/excess liability policy(ies).

F. **SELF-INSURED RETENTIONS.** Any self-insured retention in excess of \$10,000 is subject to Sourcewell's approval.

21. COMPLIANCE

A. **LAWS AND REGULATIONS.** All Equipment, Products, or Services provided under this Contract must comply fully with applicable federal laws and regulations, and with the laws in the states and provinces in which the Equipment, Products, or Services are sold.

B. **LICENSES.** Vendor must maintain a valid and current status on all required federal, state/provincial, and local licenses, bonds, and permits required for the operation of the business that the Vendor conducts with Sourcewell and Participating Entities.

22. BANKRUPTCY, DEBARMENT, OR SUSPENSION CERTIFICATION

Vendor certifies and warrants that it is not in bankruptcy or that it has previously disclosed in writing certain information to Sourcewell related to bankruptcy actions. If at any time during

this Contract Vendor declares bankruptcy, Vendor must immediately notify Sourcewell in writing.

Vendor certifies and warrants that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from programs operated by the State of Minnesota; the United States federal government or the Canadian government, as applicable; or any Participating Entity. Vendor certifies and warrants that neither it nor its principals have been convicted of a criminal offense related to the subject matter of this Contract. Vendor further warrants that it will provide immediate written notice to Sourcewell if this certification changes at any time.

23. PROVISIONS FOR NON-UNITED STATES FEDERAL ENTITY PROCUREMENTS UNDER UNITED STATES FEDERAL AWARDS OR OTHER AWARDS

Participating Entities that use United States federal grant or FEMA funds to purchase goods or services from this Contract may be subject to additional requirements including the procurement standards of the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards, 2 C.F.R. § 200. Participating Entities may also require additional requirements based on specific funding specifications. Within this Article, all references to "federal" should be interpreted to mean the United States federal government. The following list only applies when a Participating Entity accesses Vendor's Equipment, Products, or Services with United States federal funds.

A. **EQUAL EMPLOYMENT OPPORTUNITY.** Except as otherwise provided under 41 C.F.R. § 60, all contracts that meet the definition of "federally assisted construction contract" in 41 C.F.R. § 60-1.3 must include the equal opportunity clause provided under 41 C.F.R. § 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 C.F.R. §, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 C.F.R. § 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor." The equal opportunity clause is incorporated herein by reference.

B. **DAVIS-BACON ACT, AS AMENDED (40 U.S.C. § 3141-3148).** When required by federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. § 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 C.F.R. § 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The

decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-federal entity must report all suspected or reported violations to the federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. § 3145), as supplemented by Department of Labor regulations (29 C.F.R. § 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-federal entity must report all suspected or reported violations to the federal awarding agency. Vendor must be in compliance with all applicable Davis-Bacon Act provisions.

C. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (40 U.S.C. § 3701-3708). Where applicable, all contracts awarded by the non-federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations (29 C.F.R. § 5). Under 40 U.S.C. § 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. § 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence. This provision is hereby incorporated by reference into this Contract. Vendor certifies that during the term of an award for all contracts by Sourcewell resulting from this procurement process, Vendor must comply with applicable requirements as referenced above.

D. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT. If the federal award meets the definition of "funding agreement" under 37 C.F.R. § 401.2(a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 C.F.R. § 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency. Vendor certifies that during the term of an award for all contracts by Sourcewell resulting from this procurement process, Vendor must comply with applicable requirements as referenced above.

E. CLEAN AIR ACT (42 U.S.C. § 7401-7671Q.) AND THE FEDERAL WATER POLLUTION CONTROL ACT (33 U.S.C. § 1251-1387). Contracts and subgrants of amounts in excess of \$150,000 require the non-federal award to agree to comply with all applicable standards, orders or regulations

issued pursuant to the Clean Air Act (42 U.S.C. § 7401- 7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251- 1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA). Vendor certifies that during the term of this Contract will comply with applicable requirements as referenced above.

F. DEBARMENT AND SUSPENSION (EXECUTIVE ORDERS 12549 AND 12689). A contract award (see 2 C.F.R. § 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 C.F.R. §180 that implement Executive Orders 12549 (3 C.F.R. § 1986 Comp., p. 189) and 12689 (3 C.F.R. § 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. Vendor certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency.

G. BYRD ANTI-LOBBYING AMENDMENT, AS AMENDED (31 U.S.C. § 1352). Vendors must file any required certifications. Vendors must not have used federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Vendors must disclose any lobbying with non-federal funds that takes place in connection with obtaining any federal award. Such disclosures are forwarded from tier to tier up to the non-federal award. Vendors must file all certifications and disclosures required by, and otherwise comply with, the Byrd Anti-Lobbying Amendment (31 U.S.C. § 1352).

H. RECORD RETENTION REQUIREMENTS. To the extent applicable, Vendor must comply with the record retention requirements detailed in 2 C.F.R. § 200.333. The Vendor further certifies that it will retain all records as required by 2 C.F.R. § 200.333 for a period of 3 years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending matters are closed.

I. ENERGY POLICY AND CONSERVATION ACT COMPLIANCE. To the extent applicable, Vendor must comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

J. BUY AMERICAN PROVISIONS COMPLIANCE. To the extent applicable, Vendor must comply with all applicable provisions of the Buy American Act. Purchases made in accordance with the Buy American Act must follow the applicable procurement rules calling for free and open competition.

K. ACCESS TO RECORDS (2 C.F.R. § 200.336). Vendor agrees that duly authorized representatives of a federal agency must have access to any books, documents, papers and records of Vendor that are directly pertinent to Vendor's discharge of its obligations under this Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The right also includes timely and reasonable access to Vendor's personnel for the purpose of interview and discussion relating to such documents.

L. PROCUREMENT OF RECOVERED MATERIALS (2 C.F.R. § 200.322). A non-federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 C.F.R. § 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

24. CANCELLATION

Sourcwell or Vendor may cancel this Contract at any time, with or without cause, upon 60 days' written notice to the other party. However, Sourcwell may cancel this Contract immediately upon discovery of a material defect in any certification made in Vendor's Proposal. Cancellation of this Contract does not relieve either party of financial, product, or service obligations incurred or accrued prior to cancellation.

Sourcwell

DocuSigned by:
By: Jeremy Schwartz
C0FD2A139D06489...
Jeremy Schwartz
Title: Director of Operations &
Procurement/CPO
Date: 7/30/2020 | 3:01 PM CDT

Peterbilt Motors Company

DocuSigned by:
By: Joe Curran
CFFDD70EA6F948D...
Joe Curran
Title: National Fleet Sales Manager
Date: 7/30/2020 | 3:21 PM CDT

Approved:

DocuSigned by:
By: Chad Coquette
7E42B8F817A64CC...
Chad Coquette

060920-PMC

Title: Executive Director/CEO

Date: 7/30/2020 | 3:24 PM CDT

FINANCE DEPARTMENT

Memo

August 28, 2023

Mr. Rob Brule
First Selectman
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

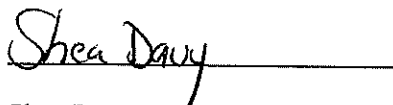
Re: Cooperative Purchasing-Line Striping-Shore, Niantic River, Oswegatchie/Fog Plain Roads

Dear Mr. Brule:

In keeping with Section 3.08.010 of the Purchasing Ordinance- Cooperative Purchasing, the Purchasing Department, on behalf the Public Works Department, after due diligence and careful consideration, is respectfully seeking the Board's approval to Award the contracts for the supply of the above mentioned projects to Safety Marking, LLC (SMC) for a total of \$58,905.56 in accordance with CRCOG contract 743.

Funds will be available from Line Item 20530-57880 Major/Minor Rd Paving.

Sincerely,

A handwritten signature in cursive script, reading "Shea Davy", is written over a horizontal line.

Shea Davy
Purchasing Agent,
Town of Waterford

INTER-OFFICE MEMORANDUM

TOWN OF WATERFORD

To: Brandishea Moses, Purchasing Agent
From: Gary J. Schneider, Director of Public Works
Date: August 24, 2023
Re: Cooperative Purchasing – FY24



The Department has used cooperative purchasing to accomplish several of our maintenance projects. These services are either bid by the State of Connecticut, Department of Administrative Services or the Capital Region of Governments and include detailed performance (both material and labor) standards and are only awarded after they have been vetted for insurance, OSHA, CHRO and other statutory requirements. These agencies allow other municipalities to piggyback on their pricing.

Public Works is requesting the use of Cooperative Purchasing for the following work for the term of the bid.

From the CROG

Service: Line Striping after the roads are completed through the CIP or CNR

- Vendor: Safety Marking
- Contract Number: 743
- Term Ending – November 2023
- Line Striping/Marking: paid through line item 20530-57880
 - Shore Road - \$4,044.76
 - Niantic River Road - \$15,754.78
 - Town Wide yearly maintenance - \$25,066.52
 - Oswegatchie / Fog Plain - \$14,039.50

Public Works respectfully requests to be on the next agenda of the Board of Selectmen.

SMC Safety Marking, LLC.

An Equal Opportunity Employer M/F/V/IWD
"Our Reputation Is Built One Line At A Time"

Quote

Attention: DANIEL MATHESON WAT1 TOWN OF WATERFORD Public Works Department 15 Rope Ferry Rd Waterford, CT 06385-2806	Quote #: 2308088 [TOWN] Date: 8/17/2023 BASED ON ONE (1) MOBILIZATION
Job Desc: SHORE ROAD - WATERFORD, CT	

Description	Quantity	UOM	Unit Price	Item Total
Base Quote				
Double Yellow Epoxy Lines 4"	4,429.00	LF	\$0.69	\$3,056.01
Epoxy Stop Bars (SF)	75.00	SF	\$7.85	\$588.75
Layout	2.00	EA	\$200.00	\$400.00

Grand Total: \$4,044.76

Sales Tax To Be Charged According To Local Government Requirements

Existing or New Customer Payment Method:

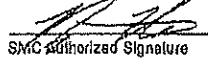
Name As It Appears On Credit Card	Billing Address Zip Code
Please Provide Credit Card Information (Visa/Mastercard/Amex are accepted)	
Card Number:	
CVV#	Expiration Date:
CVV is four digits on front of card for AMEX. Otherwise CVV is three digits on back of card.	

MANDATORY COMPLETION REQ'D		
Yes	No	PLEASE READ
☐	☐	Certified Payroll
☐	☐	Insurance Certificate
☐	☐	Material Certification
☐	☐	Tax Exempt
☐	☐	Tax Materials Only

Terms and Price Acceptance

*Any removal will be \$2.00 per SF extra - Contractor must furnish traffic control - Any applicable taxes have not been included. Terms: Net 30 Days or subject to a 1% finance charge - We propose to furnish all labor, materials, equipment, Worker's Compensation, Public Liability, and Property Damage Insurances necessary to do the work. Surveys Not Included - Contractor To Provide Baseline For Layout. Any additional Contract or PO under \$10,000 outside this PO will be charged a \$600.00 administrative fee.

An authorized signature, payment method, and project requirements information is required to schedule the work.

 SMC Authorized Signature	Bruce Borinlek (203) 333-3403 SMC Contact Name & Number	 Client Authorized Signature and Date	 Est. Start Date
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255 Hancock Avenue - Bridgeport, CT 06606 - Phone: (203) 333-6870 - Fax: (203) 333-9089
59 Stillson Road - Richmond, RI 02812 - Phone: (401) 539-1016 - Fax: (401) 539-3153
84 Sylvester Street - Westbury, NY 11590 - Phone: (516) 333-0489 - Fax: (516) 334-0813
www.safetymarking.net

SMC Safety Marking, LLC.

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Quote

Attention: DANIEL MATHESON WAT1 TOWN OF WATERFORD Public Works Department 15 Rope Ferry Rd Waterford, CT 06385-2806		Quote #: 2308087 [TOWN] Date: 8/17/2023		
Job Desc: NANTIC RIVER ROAD - WATERFORD, CT		BASED ON ONE (1) MOBILIZATION		
<u>Description</u>	<u>Quantity</u>	<u>UOM</u>	<u>Unit Price</u>	<u>Item Total</u>
Base Quote				
Double Yellow Epoxy Lines 4"	7,468.00	LF	\$0.69	\$5,162.92
Single White Epoxy Lines (4")	14,936.00	LF	\$0.367	\$5,481.51
Epoxy Speed Bars	108.00	SF	\$5.95	\$642.60
Epoxy Crosswalks (SF)	800.00	SF	\$3.95	\$3,160.00
Epoxy Stop Bars (SF)	15.00	SF	\$7.85	\$117.75
Layout	8.00	EA	\$200.00	\$1,200.00

Grand Total: \$15,764.78

Sales Tax To Be Charged According To Local Government Requirements

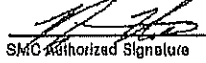
Existing or New Customer Payment Method:		MANDATORY COMPLETION REQ'D	
Name As It Appears On Credit Card _____ Billing Address Zip Code _____		Yes	No
Please Provide Credit Card Information (Visa/Mastercard/Amex are accepted)		☐	☐
Card Number: _____		☐	☐
CVV#	Expiration Date: _____	☐	☐
CVV is four digits on front of card for AMEX. Otherwise CVV is three digits on back of card.		☐	☐
		☐	☐

PLEASE READ	
☐	Certified Payroll
☐	Insurance Certificate
☐	Material Certification
☐	Tax Exempt
☐	Tax Materials Only

Terms and Price Acceptance

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An authorized signature, payment method, and project requirements information is required to schedule the work.

 SMC Authorized Signature	Bruce Bortnick (203) 333-3403 SMC Contact Name & Number	_____ Client Authorized Signature and Date	_____ Est. Start Date
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255 Hancock Avenue - Bridgeport, CT 06605 - Phone: (203) 333-8870 - Fax: (203) 333-9099
59 Stillson Road - Richmond, RI 02812 - Phone: (401) 539-1016 - Fax: (401) 539-3153
84 Sylvester Street - Westbury, NY 11590 - Phone: (516) 333-0489 - Fax: (516) 334-0813
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Quote

Attention: DANIEL MATHESON WAT1 TOWN OF WATERFORD Public Works Department 16 Rope Ferry Rd Waterford, CT 06385-2806	Quote #: 2308108 [TOWN] Date: 8/17/2023
Job Desc: 2023 WATERFORD RESTRIPIING - WATERFORD, CT	

Description	Quantity	UOM	Unit Price	Item Total
Base Quote				
Double Yellow Epoxy Lines 4"	22,178.00	LF	\$0.69	\$15,302.82
Epoxy Stop Bars (SF)	900.00	SF	\$7.85	\$7,065.00
Epoxy Crosswalks (SF)	256.00	SF	\$3.95	\$1,011.20
Epoxy R.R. Crossing	270.00	SF	\$6.25	\$1,687.50

Grand Total: \$25,066.52

Sales Tax To Be Charged According To Local Government Requirements

Existing or New Customer Payment Method:

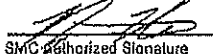
Name As It Appears On Credit Card	Billing Address Zip Code
Please Provide Credit Card Information (Visa/Mastercard/Amex are accepted)	
Card Number:	
CVV#	Expiration Date:
CVV is four digits on front of card for AMEX. Otherwise CVV is three digits on back of card.	

MANDATORY COMPLETION REQ'D		
Yes	No	
☐	☐	PLEASE READ
☐	☐	Certified Payroll
☐	☐	Insurance Certificate
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Terms and Price Acceptance

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An authorized signature, payment method, and project requirements information is required to schedule the work.

 SMC Authorized Signature	Bruce Bortnick (203) 314-3403 SMC Contact Name & Number	 Client Authorized Signature and Date	 Est. Start Date
---	--	--	---------------------

255 Hancock Avenue - Bridgeport, CT 06605 - Phone: (203) 333-8870 - Fax: (203) 333-8099
59 Stillson Road - Richmond, RI 02812 - Phone: (401) 539-1016 - Fax: (401) 539-3153
84 Sylvester Street - Westbury, NY 11590 - Phone: (516) 333-0489 - Fax: (516) 334-0813
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SMC Safety Marking, Inc.

An Equal Opportunity Employer M/F/V/IWD
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Quote

Attention: DANIEL MATHESON WAT: TOWN OF WATERFORD Public Works Department 15 Rope Ferry Rd Waterford, CT 06385-2806	Quote #: 2304012 [TOWN] Date: 4/5/2023 BASED ON ONE (1) MOBILIZATION
Job Desc: FOG PLAIN ROAD & OSWEGATCHIE ROAD - WATERFORD, CT	

Description	Quantity	UOM	Unit Price	Item Total
<i>Base Quote</i>				
Single White Epoxy Lines (4")	33,390.00	LF	\$0.37	\$12,354.30
OPTICAL SPEED BARS	216.00	SF	\$5.96	\$1,285.20
Layout	2.00	EA	\$200.00	\$400.00

Grand Total: \$14,039.50

Sales Tax To Be Charged According To Local Government Requirements

Existing or New Customer Payment Method:

Name As It Appears On Credit Card *Billing Address Zip Code*

Please Provide Credit Card Information (Visa/Mastercard/Amex are accepted)

Card Number:

CVV# Expiration Date:

CVV is four digits on front of card for AMEX. Otherwise CVV is three digits on back of card.

MANDATORY COMPLETION REQ'D		<u>PLEASE READ</u>
Yes	No	
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An authorized signature, payment method, and project requirements information is required to schedule the work.

 SMC Authorized Signature	Bruce Borinick (203) 333-3403 SMC Contact Name & Number	Client Authorized Signature and Date	Est. Start Date
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www.safetymarketing.net



CAPITOL REGION PURCHASING COUNCIL

INVITATION FOR BID #743 TRAFFIC GUIDELINES AND PAINTED PAVEMENT MARKINGS

<u>Issue Date:</u>	<u>As listed on crcog.bonfirehub.com</u>
<u>Deadline for Questions:</u>	<u>As listed on crcog.bonfirehub.com</u>
<u>Response Deadline:</u>	<u>As listed on crcog.bonfirehub.com</u>
<u>Response Location:</u>	<u>crcog.bonfirehub.com</u>

CAPITOL REGION PURCHASING COUNCIL
INVITATION FOR BID
TRAFFIC GUIDELINES

BID SPECIFICATION

I. MODIFICATIONS TO STANDARD TERMS AND CONDITIONS

INTENT

The Capitol Region Purchasing Council, on behalf of certain CRPC members, requests bids for TRAFFIC GUIDELINES for the contract period of January 1, 2023 through December 31, 2023. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each CRPC member will be required before any work is started, and shall contain information concerning the quantity and type of traffic guidelines required, the desired materials to be used, the preferred work schedule, and any other relevant data.

In general, the specifications in the federal government's Manual on Uniform Traffic Control Devices (MUTCD) 2003 edition, as amended and the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction (Form 816), as amended will apply. A copy of Form 816 may be downloaded off of the CONNDOT website at <http://www.ct.gov/dot/cwp/view.asp?a=1385&Q=506628&PM=1> . In general, specifications for pavement marking tape found in ASTM D4505 will apply.

BID AWARD

A bid award shall be made by each respective CRPC member to the lowest responsible bidder(s). The lowest responsible bidder is that person or firm whose bid to perform the work is lowest, who is qualified and competent to do the work, whose past performance of work is satisfactory to the CRPC member and whose bid documents comply with the procedural requirements stated herein. The award process may also include additional considerations such as the information provided on the bid forms and the bidder's perceived ability to fulfill his/her obligations as prescribed by these specifications.

Each bidder must be prepared to show evidence of having satisfactorily carried out a similar contract, as inability to do so may be cause for rejection. Note that service and scheduling shall be major factors in awarding the contract, and shall consist of the contractor's availability to return to do small jobs during the contract period, as well as to perform work during off-hours (e.g., nights, weekends). Note that the CRPC members reserve the right to make their awards

on a section-by-section basis in order to take advantage of the most favorable bid price for each item.

ESTIMATED QUANTITIES

The quantities specified herein are estimates only and have been provided for the purpose of competitive bidding. Actual quantities will be contingent upon the total number of CRPC members which decide to make an award off this bid (as participation is voluntary), the needs of the using departments of the various CRPC members and changes in State Traffic Commission regulations. Furthermore, budget reductions may make it impossible for a CRPC member to undertake some or all of the proposed work. The determination of the type of lines to be used will be made by the individual CRPC member under the guidance of the State Traffic Commission.

INSURANCE

All respondents are required to submit, with their bids, a copy of the cover sheet from their insurance policy(ies) (or an equivalent piece of documentation) which demonstrates the firm's current coverages and limits for General Liability, Automobile Liability and Worker's Compensation Insurance.

BID SURETY

A bid bond is not required for this bid. A performance bond in the amount of one hundred percent (100%) of each Purchase Order may be required of the successful bidder.

II. TECHNICAL SPECIFICATION, ADDITIONAL REQUIREMENTS

1. **GENERAL DESCRIPTION OF WORK TO BE ACCOMPLISHED**

The awarded contractor(s) shall be responsible for providing high quality PAVEMENT MARKINGS services in accordance with the attached specifications. All work performed shall be done in conformance with applicable sections of the Manual of Uniform Traffic Controls (MUTCD) 2003 edition as amended and the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction Form 816, as amended. Pavement Marking Tape shall conform with the ASTM D4505 standard.

For painted markings, the drop-on method of application shall be used, consisting of a combination of pigmented binder and glass spheres, which will provide a reflective surface marking on highway pavements. All paint used must be compliant with applicable federal, state or local environmental regulations.

Pavement marking tape shall comply with the specifications in ASTM D4505 of latest issue.

2. **SCOPE OF SERVICES**

All-inclusive bids (materials and installation of traffic guidelines) shall be submitted covering labor, equipment and materials for the items listed in the bid response. Such work shall include related clean-up, control of location points, protection of the line, and traffic control, as described below.

- a. Clean Up:
Upon suspension or completion of the work, the Contractor shall remove all materials, equipment and rubbish and shall leave the premises in a neat and orderly condition.
 - b. Control of Location Points:
All layout work shall be the responsibility of the Contractor and the Contractor shall also be responsible for establishing location points of solid or center lines in accordance with State Traffic Commission Regulations. Any special situations shall be referred to the Supervisor for instructions. Guidelines shall meet all pedestrian crosswalk lines and not cross them. At intersections which do not have pedestrian crosswalks marked, the Contractor shall stop his markings at points designated or as ordered by the Supervisor.
 - c. Protection of the Line:
The Contractor shall furnish all guards or forms of protection of approved design to protect the markings from all traffic until it is hard dry to no pickup and suitable for use. The Contractor shall use every precaution to protect newly painted lines from tracking, and to prevent spilling of paint on the pavement. To supplement the line guards, should the Supervisor deem it necessary, the services of a uniformed town police officer or officers will be requested from the Police Department.
 - d. Traffic Control Work:
As markings are to be applied on heavily traveled streets, the proper handling of traffic is a major consideration. Traffic shall not be impeded and work shall be carried out in such locations and at such times and sections as the Supervisor may direct. All work must be done with a minimum of inconvenience to the general public. In areas of high traffic volume, the work may have to be done during off-peak hours, including evening/weekend hours.
3. DEFINITIONS: CONTRACTORS TO SUBMIT PLANS, ETC.
Traffic Supervisor, or Supervisor, as used herein, shall mean the Traffic Authority of any CRPC member or the authorized agent.
- CRPC member as used herein shall mean all of the CRPC members party hereto or any single CRPC member included, depending upon the proper meaning of the article or clause.
- When requested to do so by the Traffic Supervisor, the Contractor shall furnish the CRPC member with a plan or a written statement of methods, which the Contractor proposes to use, and said plans or methods shall be approved by the Supervisor before any work proceeds.

4. **EMPLOYEES**

The Contractor shall employ only competent, faithful and skilled persons to do the work. Whenever the Supervisor shall notify the Contractor that any person on the job is, in his opinion, incompetent or unfaithful, such person shall be discharged promptly from the work and shall not be employed again on the job.

5. **EXPERIENCE**

Each respondent must submit satisfactory evidence as part of their bid proposal demonstrating experience painting traffic lines on public roads and knowledge of regulations established by the State Traffic Commission, including the most recent regulations. The Contractor shall further guarantee that any employee operating traffic line marking machinery is experienced in operating a machine of this type and competent in its use.

A list of at least three (3) municipalities/public agencies where this type of work has been performed during the past two (2) years shall be furnished, including contact persons and phone numbers. (See the bid specific Information Sheet.)

6. **TIME OF STARTING AND COMPLETION**

The Contractor may be requested to start work within seven (7) days of receipt of order, depending on the agreement with the Supervisor of any single CRPC member awarding such contract. All work under any contract awarded as a result of this bid shall be completed within thirty (30) days of receipt of the order unless a specific agreement with a particular Supervisor provides for a later completion date. If physical conditions prevent adherence to this time schedule, the Supervisor of the particular CRPC member shall make arrangements necessary for performance of the work. It is understood that a CRPC member may take appropriate action if an unreasonable delay is encountered beyond the thirty (30) day period mentioned above.

It is also understood that should delays occur, the Contractor will prioritize rescheduling efforts to expedite completion and minimize CRPC member exposure from unmarked roadways.

Note: Equipment breakdown shall not be considered a valid cause for a time extension request. The contractor shall be expected to have backup equipment available.

7. **LIQUIDATED DAMAGES**

The Contractor agrees that the municipality may retain the sum of One Hundred Dollars (\$100) from the amount of the compensation to be paid to the Contractor for each day in excess of the number of working days stipulated in the Specifications that work remains incomplete. This amount is agreed upon as the proper measure of liquidated damages which the municipality will sustain per day by failure of the Contractor to complete the work within the number of working days stipulated. This is not to be

construed in any sense as a penalty. A CRPC member may, at its discretion, require a performance bond of 100% of the value of the contract to ensure the prompt and satisfactory completion of the work.

8. DEFINITION OF WORKING DAYS

Working days are hereby defined as follows: A calendar day of eight (8) working hours; holidays and periods of inclement weather during which no work is done are excluded. Note that many of the participating CRPC members will require some or all of their work to be done during off hours (e.g., nights, weekends). Accordingly, respondents are asked to verify their availability to do work at such time for any requesting community on the bid's Information Sheet.

9. PAVEMENTS TO BE MARKED

Markings shall be applied mainly on sheet asphalt and bituminous concrete pavements.

10. MATERIALS

All materials shall be in accordance with the State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction Form 816, as amended unless otherwise noted:

Paint:

All Paint shall:

- a. Meet applicable requirements for:
 - Waterborne Paint - Section M.07.20
 - Hot-Applied Waterborne Paint – Section M.07.21
 - Oil-Based paint - DOT Form 814a, Section M.07.20, 15 Minute Dry Pavement Marking Paint, (attached).
- b. Be compliant with all federal, state and local environmental regulations.
- c. Be highly resistant to traffic wear and the effects of weathering.

It should be noted that Waterborne, Hot Applied Waterborne and Oil-Based Paint options are available as part of this bidding effort to meet the needs and preferences of all participating CRPC members. Respondents are asked to include, as part of their response, a manufacturer spec sheet for the paint that will be used to perform the work.

Glass Beads:

Standard reflectorizing glass beads, in accordance with Section M.07.30, are required for application of traffic paint to produce a reflective surface. The glass beads shall be manufactured of glass of a composition designed to be highly resistant to traffic wear and the effects of weathering.

Thermoplastic Material:

Some CRPC members may require the use of thermoplastic material in lieu of paint for certain detail work in specific locations. Material used for this purpose and the method of application shall have been proven to be satisfactory. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

Epoxy Resin Pavement Markings:

CRPC members may require epoxy resin pavement markings. To this end, vendors shall furnish and install epoxy resin pavement markings in accordance with Section 12.10 - Epoxy Resin Pavement Markings, Symbols, and Legends and Section M.07.22 - Epoxy Resin Pavement Markings. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

Pavement Marking Tape

CRPC members may require permanent pavement marking tape. To this end, vendors shall furnish, install, and remove pavement markings in accordance with ASTM D4505 of latest issue. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

11. METHOD OF CONSTRUCTION FOR PAINT

Equipment:

On the information sheet, each respondent shall note all equipment that he/she owns and will use in performing this contract. The respondent shall also indicate any other machines available to him/her through lease, etc. Hot application may be required for painting lines, either white, yellow or both.

Procedure

The surface upon which marking materials are to be applied shall be completely dry and free from moisture and dirt. Sufficient time must elapse after any rain or heavy dew to allow the surface to become thoroughly dry prior to placing any reflective material. Marking material shall be applied only under favorable and suitable conditions, and no marking material shall be placed unless the air or pavement temperature is 45° or above. The Contractor will be held liable for any marking material applied which does not stand up to normal traffic uses for a period of ninety (90) days.

The pigmented blinder shall be applied by a self-propelled, motorized, paint spray machine capable of supplying traffic marking paints. It shall be capable of painting double lines at one time and simultaneously depositing reflecting glass beads on both lines in equal volume.

The painting shall be accomplished in a workmanlike manner, with lines well defined. The binder shall be applied to a wet film thickness of .015 inches (unless otherwise specified by a municipality) and at a rate of not less than one hundred (100) square feet and not more than one hundred ten (110) square feet of surface per gallon of binder.

The glass spheres shall be applied immediately to the pigmented binder following application at a rate of six (6) pounds per gallon of binder.

The glass spheres shall be evenly distributed over the entire width of the line. It is intended that the pigmented binder will bind the glass spheres in such a manner that it will produce maximum adhesion, refraction and reflection.

Maintenance

The Contractor shall keep and maintain their work in good repair for a period of ninety (90) days from the date of completion of the work on the respective streets. It is agreed and understood that the Contractor will at any time during this period, upon notification in writing from the Supervisor, and without expense to the CRPC member, immediately execute all repairs which may be necessary, as determined by said Supervisor by reason of defective workmanship or pavement/roadway use.

12. PAVEMENT PATCHES

The Contractor will not be held liable for markings applied over utility cuts in the pavement or for any cuts in the pavement after line has been marked.

13. PAVEMENT MARKINGS

A. Pavement Lines

Paint shall be applied by truck and include centerlines, lane lines and shoulder lines. Pavement Marking Tape shall be precoated, on its bottom side, with a pressure-sensitive adhesive for adherence to HMA or PCC surfaces. Pavement Marking Tape shall be of the specified dimension and shape with clean-cut, well-defined edges, of good appearance, and free of cracks or other defects.

Unless otherwise noted, the price shall be per **linear foot** (lf) of paint/tape applied to the pavement.

Centerlines:

Shall be four (4) inches wide (single or double), white or yellow lines, and may include centerline tails on stop bars. For painted lines, the drop-on method of application shall be used, consisting of a combination of pigmented binder and glass spheres which, when properly applied, will provide a retrodirective reflecting marking for horizontal highway surfaces. Single and double line bids shall be per linear foot.

Skip Lines:

Shall be four (4) inches wide; white lines, consisting of a fifteen (15) foot segment and thirty (30) foot skip, except as directed by the Supervisor. On a street with more than one guideline, the sections shall line up approximately across the street. Enfield, Manchester, Rocky Hill, West Hartford and Windsor included requirements for a ten (10) foot segment and a thirty (30) foot skip. Note: this item shall be measured and priced per linear foot; only sections of pavement where markings are actually applied (not bare pavement) shall be included in the payment calculation.

Pavement Lane/Edge Lines:

Shall be four (4) inches; white or yellow lines, as directed by each municipality. This category is intended to cover the varied needs of the participating towns. Work covered hereunder may therefore include edge lines, shoulder lines, median lines, etc.

B. Painted Legends, Arrows and Markings

Paint shall be applied by a hand-stripping machine. Pavement Marking Tape shall be pre-coated, on its bottom side, with a pressure-sensitive adhesive for adherence to HMA or PCC surfaces. Pavement Marking Tape shall be of the specified dimension and shape with clean-cut, well-defined edges, of good appearance, and free of cracks or other defects.

Markings shall include stop bars, arrows, parking stalls, crosswalks, curbs and other miscellaneous details. Unless otherwise noted, price shall be per **square foot** applied to the pavement.

Note: Attached are the Connecticut DOT "Special Details and Typical Pavement Markings for Two-Way Highways" sheet and a CRCOG-generated "Supplemental Pavement Marking Special Details" sheet that was created for illustrative purposes only. As the latter document states, the awarded Contractor(s) shall consult with authorized municipal representatives to verify/finalize municipality specific dimensions and stenciling requirements.

Stop Bar Lines:

Shall be a minimum twelve (12) inches wide; solid white lines, normally four (4) feet in advance of and parallel to the nearest crosswalk line.

Arrows:

On public streets, arrows shall be white and to dimensions shown in the attached detail. Off streets, arrows shall be white unless otherwise directed.

Parking Stall Lines and Parallel Parking T-Bars:

Lines shall be four (4) inches wide, solid white lines or the color directed by the municipality.

Crosswalks:

Crosswalks utilizing parallel lines shall have a minimum six (6) inches wide white line to a maximum twenty-four (24) inches wide white line spaced not less than six (6) feet apart. Cross-hatching may be required in some cases.

An alternate crosswalk specification for the State of Connecticut Department of Transportation Standard Crosswalk requires 16" wide bars or 24" wide bars at School/Elderly crossings (see attached diagram). These crosswalk specifications are optional and are **not mandated** by state law.

Miscellaneous Detail Work:

This category is intended to cover a broad range of detail work, including, but not limited to railroad crossings, bicycle path diamonds, sharrows, stenciling, speed bumps, crosshatching, and fire lanes.

Railroad Crossings

At grade railroad crossings shall be painted with reflectorized white marking paint/tape. They shall consist of an X, the letters RR and transverse lines (stop bars) as shown on the attached detail.

Stenciling Work

Shall include painting of numbers, words and symbols in the color directed by the municipality.

Curbs:

Shall be painted yellow or the color directed by the municipality. Note that curb work shall be priced by the linear foot.

Handicapped Stencils:

To be priced per each.

14. **REMOVAL OF MARKINGS**

The removal of painted or pavement marking tape markings shall be performed in accordance with Section 12.11 of the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, as amended.

15. **BASIS FOR PAYMENT**

In estimating the length of centerlines, CRPC members have included the length of gaps in broken lines. Billing shall be figured for these total lengths, but it is not intended that payment will be made for the gaps in which no paint/tape is applied. Quotations should, therefore, take into consideration the fact that a certain portion of the broken line lengths will not require paint/tape. The Contractor will measure for payment the actual footage of other markings applied, subject to review by the Supervisor.

In general, paint applied by truck mounted machine will be paid for at the unit price per linear foot (LF) and paint applied by hand machine will be paid for at the unit price per square foot (SF) for the type of paint applied.

16. **VENDOR PERFORMANCE/LIABILITY FOR SERVICE FAILURES**

Failure of any successful bidder to adhere to the specifications, prices, terms or conditions of their agreement during the course of the contract period may preclude such bidder from bidding on future CRPC bids in addition to any action that municipalities may take as a result of the vendor's failure to perform. It should be noted that the awarded vendor shall assume full responsibility for the negligence of any sub-contractor(s) utilized to fulfill any and all obligations under resulting contracts. Moreover, if the contractor fails to provide the contracted services within the time specified or if the services are rejected by the municipality, the municipality may obtain such services or any part thereof from other sources in the open market or on contract. Should the new price be greater than the contract price, the difference will be charged against the contractor. Should the new price be less, the contractor shall have no claim to the difference.

II. STANDARD BID AND RFP TERMS AND CONDITIONS

PURCHASING COUNCIL PURPOSE

The Capitol Region Purchasing Council ("CRPC") is a purchasing cooperative, acting under the auspices of the Capitol Region Council of Governments ("CRCOG"), which attempts to provide volume-based discounts to its Member Agency base through various cooperative procurement initiatives. To date, some 115 towns, boards of education and agencies across the State (38 of which are located in the Greater Hartford area) are eligible to take advantage of the Council's services.

BID FORMS/SUBMISSION OF BIDS

The CRPC uses Bonfire for the notification and dissemination of all solicitations. The receipt of solicitations through any other company may result in your receipt of incomplete specifications and/or addenda which could ultimately render your bid non-compliant. The CRPC accepts no responsibility for the receipt and/or notification of solicitations through any other company.

No oral, telegraphic or telephonic submittal will be accepted. IFB's, RFP's, RFQ's and RFI's shall be submitted in electronic format via Bonfire. All Invitations For Bid (IFB), Requests For Proposals (RFP), Requests For Quotes (RFQ), Requests For Information (RFI) submitted electronically via Bonfire shall remain locked until official date and time of opening as stated in

the Special Terms and Conditions of the IFB, RFP, RFQ and/or RFI. A formal, in-person bid opening will not be held.

EXCEPTIONS TO SPECIFICATIONS

Vendors are directed to make sure that they understand the terms and conditions as specified in this Invitation for Bid. Unless exceptions to any of the terms and conditions, including pricing, are specified as part of the bid response, it will be expected that all terms and conditions expressed herein are acceptable and shall govern resulting contracts. Any variance from specifications, including product substitutes (as well as replacements for discontinued items) and pricing units (pounds, 50 lb bags vs. 100 lb bags, etc.) must be clearly noted in the vendor's bid response.

SUBSTITUTION FOR NAMED BRANDS

Should brand name items appear in this bid, the bidder must make available specifications on any substitutions, and explain how the substitution compares with the named brand's specifications.

BID AWARD

A bid award, in the form of a purchase order issued to a participating vendor, shall be made by each respective Member Agency to the lowest responsible bidder(s). The lowest responsible bidder is that person or firm whose bid to perform the work is lowest, who is qualified and competent to do the work, whose past performance of work is satisfactory to the Member Agency and whose bid documents comply with the procedural requirements stated herein. The award process may also include additional considerations such as the information provided on the bid forms and the bidder's perceived ability to fulfill his/her obligations as prescribed by these specifications. Each bidder must be prepared to show evidence of having satisfactorily carried out a similar contract, as inability to do so may be cause for rejection.

CONTRACT EXTENSION

Contracts may be extended by mutual agreement of the parties – for bids with a one year contract period, a one year extension will be permitted if there is mutual agreement; for bids with a two year contract period, a two year contract extension will be permitted if there is mutual agreement. All extensions shall be completed before the next bid invitation is issued. A schedule of bid invitations and openings is posted on the CRPC website.

ESTIMATED QUANTITIES

The quantities as listed herein are estimates only and have been provided for the purpose of competitive bidding. Actual quantities will be contingent upon the total number of Member Agencies that decide to make an award from this bid (as participation is voluntary) and the needs of the using departments in the various Member Agencies.

INCLUSION OF NON-PARTICIPATING TOWNS AND BOARDS OF EDUCATION

Any Member Agency, current or future, within the CRPC shall be allowed to participate in this bid during the life of the contract, even if it is not listed amongst the bid participants.

WITHDRAWAL OF BIDS

No bid submitted may be withdrawn, in whole or in part, without the written consent of the CRPC.

REJECTION AND/OR CANCELLATION OF BIDS

The CRPC reserves the right to reject or cancel any and all bids, or any part of any or all bids, if such action is deemed to be in its best interest to do so.

RIGHT TO WAIVE ANY INFORMALITY

The cooperating Member Agencies reserve the right to waive any informality in a bid when such a waiver is in their best interest.

BID PRICES

All prices bid must be on the basis of F.O.B. delivery point, unloaded inside, unless otherwise indicated in the proposal. A bid on any other basis than that indicated in the proposal may be considered informal. **Note: CRPC strictly prohibits the unilateral imposition of additional surcharges (fuel, delivery, etc.) on the participating communities at any point during the contract period. Prices bid shall apply throughout the term of the contract and will be construed as all-inclusive.**

TAXES

Member Agencies are exempt from the payment of any sales, excise or federal transportation taxes. The prices bid, whether a net unit price or a trade discount from catalog list prices, must be exclusive of taxes and will be so construed.

BILLING

INVITATION TO BID
PAVEMENT MARKINGS

CRPC 743

Billing shall be made to each bid participant according to the terms set forth on each purchase order.

1% ADMINISTRATIVE FEE

The Capitol Region Council of Governments uses Bonfire to distribute and receive bids and proposals. Responding vendors agree to pay to the CRCOG an administrative fee of one percent (1%) of the total ordered amount of all contracts for goods and/or services awarded to the vendor. This fee shall be submitted by the vendor to CRCOG on a quarterly basis along with a report on awards made by Member Agencies and purchase orders issued by CRPC members to vendors. The fee shall be payable for all CRPC bids unless specifically exempted by the CRPC.

The fee and report shall be submitted as a check to made to the order of "Capitol Region Council of Governments" and mailed to:

Capitol Region Council of Governments

Attn: Kim Bona

241 Main Street, 4th

Hartford, CT 06106

REPORTING REQUIREMENTS

All orders placed on CRPC bids shall be reported to the Capitol Region Council of Governments on a monthly or quarterly basis. Vendors are responsible for submitting purchase orders to the CRCOG via email to kbona@crcog.org.

FAILURE TO COMPLY

All awarded vendors must comply with the 1% Administrative Fee and Reporting Requirements outlined in the CRPC General Terms and Conditions. Failure to comply within 60 days of orders and/or awards by CRPC members may result in the vendor being restricted from participating in future bids.

DELIVERY ARRANGEMENTS AND REQUIREMENTS

INVITATION TO BID
PAVEMENT MARKINGS

CRPC 743

No delivery shall become due or be acceptable without a written order issued by the Member Agency concerned. Such order will contain the quantity, time of delivery and other important data.

REFERENCES

Upon request, vendors shall supply the names of other customers (preferably municipalities) to Interested Member Agencies.

BIDDER PERFORMANCE/LIABILITY FOR DELIVERY FAILURES

Failure of any successful bidder to adhere to specifications, prices, terms or conditions of their agreement during the course of the contract period may preclude such bidder from bidding on future CRPC bids in addition to any action that Member Agencies may take as a result of the vendor's failure to perform. It should be noted that the awarded vendor shall assume full responsibility for the negligence of any sub-contractor(s) utilized to fulfill any and all obligations under resulting contracts.

Moreover, if the contractor fails to make proper delivery within the time specified or if the delivery is rejected by the Member Agency, the Member Agency may obtain such commodities or any part thereof from other sources in the open market or on contract. Should the new price be greater than the contract price, the difference will be charged against the contractor. Should the new price be less, the contractor shall have no claim to the difference.

INSURANCE REQUIRED OF SUCCESSFUL BIDDERS

The Successful bidder shall furnish a certificate of insurance which includes the coverages and limits set forth below; identifies the Member Agency as an additional insured; and provides for at least ten (10) days prior notice to the Member Agency of cancellation or non-renewal.

Coverage is to be provided on a primary, non-contributory basis:

- a. General Liability Insurance, including Contractual Liability Insurance and Products/Completed Operations Insurance issued by an insurance company licensed to conduct business in the State of Connecticut with: limits not less than \$1,000,000 for all damages because of bodily injury sustained by each person as the result of any occurrence and \$1,000,000 bodily injury aggregate per policy year; and limits of \$500,000 for all property damage aggregate per policy year or a limit of \$1,000,000 Combined Single Limit (CSL). A Waiver of Subrogation shall be provided. All, if any, deductibles are the sole responsibility of the contractor to pay and/or indemnify.

- b. Automobile Liability Insurance issued by an insurance company licensed to conduct business in the State of Connecticut with: limits not less than \$1,000,000 for all damages because of bodily injury sustained by each person as a result of any occurrence and \$1,000,000 aggregate per policy year; and limits of \$500,000 for all damages because of property damage sustained as the result of any one occurrence or \$1,000,000 Combined Single Limit (CSL). All, if any, deductibles are the sole responsibility of the contractor to pay and/or indemnify.
- c. Worker's Compensation Insurance in accordance with Connecticut State Statutes.

The insurance requirements listed above are minimum requirements for successful bidders. Awarding agencies may require higher insurance limits.

FOR THE TOWN OF WEST HARTFORD ONLY

Please see the Attachment concerning the town's insurance requirements.

FUTURE BID INVITATIONS

Future bid invitations may not be sent to vendors who do not bid on this invitation, unless they specifically request that their names be continued on the invitation list.

EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION

The CRPC, an affiliate of the CRCOG, subscribes to the CRCOG's policy of Equal Employment Opportunity and Affirmative Action, and pledges to lend its support and cooperation to private and public agencies who are promoting public policy in this vital area of human relations. Vendors will be required to sign the certificate incorporated in the bid document relative to Equal Employment Opportunity and Minority/Female Business Enterprise (if applicable).

SEVERABILITY

If any terms or provisions of this bid shall be found to be illegal or unenforceable, then such term or provision shall be deemed stricken and the remaining portions of this bid shall remain in full force and effect.

ADDITIONAL TERMS AND CONDITIONS

The Vendor assigns to CRCOG all rights title and interests in and to all causes of action it may have under Section 4 of the Clayton Act, 15 USC 15, or under Chapter 624 of the general statutes. This assignment occurs when the Contractor is awarded the contract.

Vendor agrees that it is in compliance with all applicable federal, state and local laws and regulations, including but not limited to Connecticut General Statutes Sections 4a-60 and 4a-60a. The Contractor also agrees that it will hold CRCOG harmless and indemnify CRCOG from any action which may arise out of any act by the contractor concerning lack of compliance with these laws and regulations. All purchases will be in compliance with Section 22a-194 to Section 22a-194g of the Connecticut General Statutes related to product packaging.

Resulting contracts are subject to the provisions of Executive Order N. Three of Governor Thomas J. Meskill promulgated February 15, 1973 and section 16 of P.A. 91-58 nondiscrimination regarding sexual orientation, and the provisions of Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999 regarding Violence in the Workplace Prevention Policy.

The contract arising from the bid may be subject to the provisions of §1-218 of the Connecticut General Statutes, as it may be modified from time to time. In accordance with this section, each contract in excess of two million five hundred thousand dollars between a public agency and a person for the performance of a governmental function shall (1) provide that the public agency is entitled to receive a copy of records and files related to the performance of the governmental function, and (2) indicate that such records and files are subject to the Freedom of Information Act and may be disclosed by the public agency pursuant to the Freedom of Information Act. No request to inspect or copy such records or files shall be valid unless the request is made to the public agency in accordance with the Freedom of Information Act. Any complaint by a person who is denied the right to inspect or copy such records or files shall be brought to the Freedom of Information Commission in accordance with the provisions of sections 1-205 and 1-206 of the Connecticut General Statutes.

Incorporated by reference into this contract is Section 4-61dd(g)(1) and 4-61dd(3) and (f) of the Connecticut General Statutes which prohibits contractors from taking adverse action against employees who disclosed information to the Auditors of Public Accounts or the Attorney General.

QUESTIONS

Inquiries should be directed through the Bonfire messaging application.

No oral interpretations shall be made to any respondent as to the meaning of any of the bid documents. **Every request for an interpretation shall be made in writing and posted to the Bonfire online system.** To receive consideration, such questions must be received according to the date posted on the Bonfire system.

INVITATION TO BID
PAVEMENT MARKINGS

CRPC 743

The CRPC staff will arrange as addenda, which shall be made a part of this Invitation for Bid and any resulting contracts, all questions received as above provided and the decisions regarding each. At least three (3) days prior to the receipt of bid proposals, the CRPC staff will **post a copy of any addenda in Bonfire**. In special cases, the CRPC staff reserves the right to post clarifying information in the form of an addendum outside of the aforementioned timeline. It shall be the responsibility of each respondent to determine whether any addenda have been issued and if so, to download copies directly from the **Bonfire** website.

Atlantic Pavement Marking Inc.														Safety Marking LLC	
Total Cost														\$ 4,559,142.73399995	
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[illegible]

	80 MIL Pav \$ 0	\$ 890.0	1000	0	0	0	0	0	0	1000	No Bid	No Bid	\$ 940.0
#28-1	80 MIL Pav \$ 0	\$ 890.0	1000	0	0	0	0	0	0	0	No Bid	No Bid	\$ 940.0
#29-1	80 MIL Pav \$ 0	\$ 0.0	0	0	0	0	0	0	0	0	No Bid	No Bid	\$ 0.0

FINANCE DEPARTMENT

Memo

August 8, 2023

Mr. Rob Brule
First Selectman
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

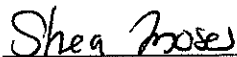
Re: Cooperative Purchasing-Telephone System Upgrade

Dear Mr. Brule:

In keeping with Section 3.08.010 of the Purchasing Ordinance- Cooperative Purchasing, the Purchasing Agent on behalf of the IT Department, respectfully seeks the Board's approval to award the contract for the purchase of the Cisco phone system/replacement upgrade solution to **Total Communications Inc.** This purchase is in accordance with DAS contract 18PSX0202.

Funds will be available from Line Item 20547-57860 Phone System Upgrade.

Sincerely,



Shea Moses
Purchasing Agent,
Town of Waterford

FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2886

To: First Selectman Robert Brule
From: IT Manager Jeffrey Robillard
Date: 08/7/2023
Re: **Cooperating Purchasing Request
for Telephone System Upgrade CNR#20547-57860**

On August 7th the RTM approved the additional appropriation to the Project Telephone System Upgrade #20547-57860 and waived the 15 days public referendum requirement so we can move ahead quickly with this project. This project is to replace all the unsupportable end of life software and hardware that is part of our Cisco VOIP phone system servicing the School system, Town buildings, Police, Emergency Management, and Fire Services.

I respectfully request the Board of Selectman to accept the purchase of the Cisco phone system/replacement upgrade solution recommended by Total Communications Inc. of East Hartford, CT. for \$581,700 through the cooperative purchasing program.

Total communications is a vital support resource for the Town and School systems network infrastructure, virtual server environment, and data storage solutions. They are one of two vendors on the State Contract Award number 18PSX0202 for "Cisco Products and Services". The other vendor on the state contract was unable to provide us, after 9 months of communicating with them regularly about our requirements, an accurate functional solution. Total Communications provided us a solution within a month and has kept close contact with us to ensure our existing system stays running.

Respectfully submitted for your consideration

Jeffrey M. Robillard,
IT Manager
Town of Waterford

CC: Kim Allen – Director of Finance
Brandishea Moses – Purchasing Agent

FIFTEEN ROPE PERRY ROAD
WATERFORD, CT 06385-2886



PHONE: 860-442-0553
www.waterfordct.org

TO: Board of Selectmen

FROM: Kim Allen, Director of Finance
Jeff Robillard, IT Manager

RE: Additional Appropriation Request

DATE: June 26, 2023

The Town and Board of Education phone system is at end of life. The software can no longer be maintained and issues are now becoming frequent that put the safety of both school and town employees at risk. The school telephone system is the only concrete way for staff to be able to call outside the school during any type of emergency as the buildings materials make cellular phones inconsistent. The upgraded software will also include an added security layer by programming "panic buttons" that will be wired directly to Waterford dispatch in case of an emergency.

We respectfully request an additional appropriation of \$581,700 for capital project 20547-57860 (Telephone System Upgrade)

Regards,

Kim Allen
Jeff Robillard

7/11/23 BOS, approved

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2023-2024 FISCAL YEAR REQUEST**

DEPARTMENT/AGENCY INFORMATION TECHNOLOGY	CONTACT PERSON JEFFREY ROBILLARD
PROJECT NAME PHONE SYSTEM UPGRADE REPLACEMENT	DEPARTMENT PRIORITY 2

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project) The purpose of the project is to update the Cisco VOIP phone system that provides voice communications and voicemail from town residents, to/from all Town Buildings/Departments, to/from all Board of Education buildings/Departments, and to/from all the Fire Houses to a current supportable secure platform. Most of the current backend equipment and all of the software that makes the phone system function is end of life or past end of life and considered unsupportable. The replacement project will allow the School system, Town, and Fire Houses to run a phone system that is current, reliable, supportable, and secure.						
2	PROJECT STATUS IF IN PROGRESS						
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST						
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)						
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)						
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)						
7	COST/FUNDING SOURCE						
	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2024	FY2025	FY2026	FY2027	FY2028
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		581,700				
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	581,700				

TOTAL COMMUNICATIONS

Itemized Pricing

Quote Expires: 1/4/2023

Quote Prepared for: Waterford Board of Education

CPE MATERIAL				UNIT PRICE	TOTAL PRICE
QTY	PART NUMBER	DESCRIPTION			
Alternate 1					
	Collab Flex (School portion of 520 KW, 5yrs)				
1	A-FLEX-3	Collaboration Flex Plan 3.0			
1	SVS-FLEX-SUPT-BAS	Basic Support for Flex Plan			
347	A-FLEX-EAPL	EntW On-Premises Calling	427.16		148,224.52
50	A-FLEX-STD-CUBE	CUBE Standard Trunk Session License	159.40		7,970.00
694	A-FLEX-SRST-E	SRST Endpoints (1)			
347	A-FLEX-P-EA	On-Premises Smart License - EA (1)			
70	A-FLEX-P-AOC	Access Smart License (1)			
174	A-FLEX-P-CA	Common Area Smart License (1)			
416	A-FLEX-P-UCXN	Unity Connection Smart License (1)			
1040	A-FLEX-P-ER	Emergency Responder Smart License (1)			
1	A-FLEX-SW-12.5-K9	On-Premises SW Bundle v12.5 (1)			
1	A-FLEX-SW-14-K9	On-Premises SW Bundle v14 (1)			
	Cisco UC Virtual Servers (HA Pair on each side, 5yrs)				
2	BE6M-M5-K9	Cisco Business Edition 6000M (M5) Appliance, Export Restr SW	9,489.94		18,979.88
2	CON-SNT-BE6MM5K9	5yrs SNTC-8X5XNBD Cisco BE 6000M (M5) (Smartnet)	2,512.46		5,024.92
2	BE6K-PSU	Cisco UCS 770W AC Power Supply for Rack Server			
2	BE6K-RAIDCTRLR	Cisco 12G Modular RAID controller with 2GB cache			

12	BE6K-DISK	300GB 12G SAS 10K RPM SFF HDD	-	-
2	R2XX-RAID5	Enable RAID 5 Setting	-	-
2	BE6K-CPU	2.2 GHz 4114/85W 10C/13.75MB Cache/DDR4 2400MHz	-	-
2	CAB-9K12A-NA	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	-	-
2	BE6K-VIRTBAS-7X	Cisco BE Embedded Virt. Basic 7x, BE6K only	-	-
2	CON-ECMU-BE6K/IRX	SWSS UPGRADES Cisco BE Embedded Virt. Basic 7x, BE6K o	487.69	975.38
3	BE6K-RAM-M6-M5	16GB RDIMM SRx4 3200 (8Gb)	-	-
2	UCSC-PSU1-770W=	Cisco UCS 770W AC Power Supply for Rack Server	558.24	1,116.48
2	CAB-9K12A-NA=	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	25.97	51.94
1	UCSC-PCIE-IRJ45=	Intel I350 Quad Port 1Gb Adapter	1,418.60	1,418.60
Head End C8300 SIP Router (DNA Adv, 4FXO, 2FXS, 5yr)				
1	C8300-1N1S-6T	Cisco Catalyst C8300-1N1S-6T Router	9,232.51	9,232.51
1	CON-SNTE-C830IN6T	5yrs SNTE-8X5X4 Cisco Catalyst C8300 (Smartnet)	10,615.15	10,615.15
1	MEM-C8300-8GB	Cisco Catalyst 8300 Edge 8GB memory	-	-
1	M2USB-16G	Cisco Catalyst 8000 Edge M.2 USB 16GB	-	-
1	C-RFID-1R	Cisco Catalyst 8000 Edge RFID - 1RU	-	-
1	C8300-RM-19-1R	Cisco Catalyst 8300 Rack mount kit - 19" 1R	-	-
1	C8300-PIM-BLANK	Cisco Catalyst 8300 Edge PIM Blank	-	-
1	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	-	-
1	TE-R-SW	TE agent for IOSXE on Enterprise Routing	-	-
1	IOSXE-AUTO-MODE	IOS XE Autonomous boot up mode for Unified Image	-	-
1	SC8KBEUK9-176	UNIVERSAL	-	-
2	PWR-CC1-400WAC	Cisco C8300 1RU AC Power supply	-	-
2	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m	-	-
1	NIM-PVDM-64	NIM with 64-channel DSP	2,853.69	2,853.69
1	NIM-2FXS/4FXOP	2-Port FXS/FXS-E/DID and 4-Port FXO Network Interface Module	1,246.87	1,246.87
1	C-SM-NIM-ADPT	Cisco Catalyst SM to NIM Module Adaptor	1,258.99	1,258.99
1	DNA-P-T0-A-3Y	Cisco DNA Advantage On-Prem Lic 3Y - upto 25M (Aggr, 50M)	2,968.52	2,968.52
1	SVS-PDNA-ADV	Embedded Support for SW - Tiered DNA Advantage On-Prem	-	-
1	DSTACK-T0-A	Cisco DNA Advantage Stack - upto 25M (Aggr, 50M)	-	-

1	NWSTACK-T0-A	Cisco Network Advantage Stack - upto 25M (Aggr, 50M)			
1	SDWAN-UMB-ADV	Cisco Umbrella for DNA Advantage			
1	DNAC-ONPREM-PF	Cisco DNA Center On Prem Deployment Option for WAN			
	C8200 (DNA Adv, 2FXO, 5yr)				
3	C8200-1N-4T	Cisco Catalyst C8200-1N-4T Router	3,776.93		11,330.79
3	CON-SNT-C82001N4	5yrs SNTC-8X5XNBD Cisco Catalyst C8200 (Smartnet)	3,029.03		9,087.09
3	MEM-C8200-8GB	Cisco Catalyst 8200 Edge 8GB memory			
3	M2USB-16G	Cisco Catalyst 8000 Edge M.2 USB 16GB			
3	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m			
3	C-RFID-1R	Cisco Catalyst 8000 Edge RFID - 1RU			
3	C8200-RM-19-1R	Cisco Catalyst 8200 Rack mount kit - 19" 1R			
3	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment			
3	C8200-PIM-BLANK	Cisco Catalyst 8200 Edge PIM Blank			
3	TE-R-SW	TE agent for IOSXE on Enterprise Routing			
3	IOSXE-AUTO-MODE	IOS XE Autonomous boot up mode for Unified Image			
3	SC8KBEUK9-176	UNIVERSAL			
3	SVS-PDNA-ADV	Embedded Support for SW - Tiered DNA Advantage On-Prem			
3	SDWAN-UMB-ADV	Cisco Umbrella for DNA Advantage			
3	DNAC-ONPREM-PF	Cisco DNA Center On Prem Deployment Option for WAN			
3	DNA-P-T0-A-3Y	Cisco DNA Advantage On-Prem Lic 3Y - upto 25M (Aggr, 50M)	2,968.52		8,905.56
3	NWSTACK-T0-A	Cisco Network Advantage Stack - upto 25M (Aggr, 50M)			
3	DSTACK-T0-A	Cisco DNA Advantage Stack - upto 25M (Aggr, 50M)			
3	NIM-2FXO	2-port Network Interface Module - FXO (Universal)	419.66		1,258.98
	Analog GWs (5yrs)				
4	VG400-4FXS/4FXO	Cisco VG400 Analog Voice Gateway	3,440.01		13,760.04
4	CON-SNT-VG4004FO	5yrs SNTC-8X5XNBD Cisco VG400 Analog Voice Gw (Smartnet)	2,197.10		8,788.40
4	SL-VG400-UC-K9	Unified Communication License for VG400 Series			
4	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m			
4	PWR-VG400-AC	AC Power Supply for Cisco VG400			
4	SVG400UK9-175	Cisco VG400 Series IOS XE Universal Image			
1		Cisco Smartnet years 1-5	35,078.71		35,078.71

1	S&H	Freight	1,277.24	1,277.24
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*note wall mounts and labor not included in phone pricing

PROJECT SUMMARY				
	Material Summary	\$	301,424.26	
	Labor Summary	\$	22,799.98	
	Total Customer Price	\$	324,224.24	
	Annual Payment	\$	64,844.85	

* All work to be performed during normal business hours Monday through Friday between 8:00am and 5:00pm unless otherwise specified.

* Additional taxes may apply to both upfront and monthly charges and vary by location.

TOTAL COMMUNICATIONS

Itemized Pricing

Quote Expires: 1/4/2023

Quote Prepared For: Town of Waterford

CPE MATERIAL				UNIT PRICE	TOTAL PRICE
QTY	PART NUMBER	DESCRIPTION			
BE6K-RAIDCTR					
Collab Flex (Town portion of 520 KW, 5yrs)					
1	A-FLEX-3	Collaboration Flex Plan 3.0			
1	SVS-FLEX-SUPT-BAS	Basic Support for Flex Plan			
173	A-FLEX-EAPL	EntW On-Premises Calling	427.16		73,898.68
50	A-FLEX-STD-CUBE	CUBE Standard Trunk Session License	159.40		7,970.00
346	A-FLEX-SRST-E	SRST Endpoints (1)			
173	A-FLEX-P-EA	On-Premises Smart License - EA (1)			
34	A-FLEX-P-ACC	Access Smart License (1)			
86	A-FLEX-P-CA	Common Area Smart License (1)			
208	A-FLEX-P-UCXN	Unity Connection Smart License (1)			
520	A-FLEX-P-ER	Emergency Responder Smart License (1)			
1	A-FLEX-SW-12.5-K9	On-Premises SW Bundle v12.5 (1)			
1	A-FLEX-SW-14-K9	On-Premises SW Bundle v14 (1)			
Cisco UC Virtual Servers (HA Pair on each side, 5yrs)					
2	BE6M-M5-K9	Cisco Business Edition 6000M (M5) Appliance, Export Restr SW	9,489.94		18,979.88
2	CON-SNT-BE6MM5K9	5yrs SNTC-8X5XNBD Cisco BE 6000M (M5) (Smartnet)	2,512.46		5,024.92
2	BE6K-PSU	Cisco UCS 770W AC Power Supply for Rack Server			
2	BE6K-RAIDCTR	Cisco 12G Modular RAID controller with 2GB cache			

12	BE6K-DISK	300GB 12G SAS 10K RPM SFF HDD	-	-	-
2	R2XX-RAID5	Enable RAID 5 Setting	-	-	-
2	BE6K-CPU	2.2 GHz 4114/85W 10C/13.75MB Cache/DDR4 2400MHz	-	-	-
2	CAB-9K12A-NA	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	-	-	-
2	BE6K-VIRTBAS-7X	Cisco BE Embedded Virt. Basic 7x, BE6K only	-	-	-
2	CON-ECMU-BE6K/VRX	SWSS UPGRADES Cisco BE Embedded Virt. Basic 7x, BE6K o	487.69	-	975.38
3	BE6K-RAM-M6-M5	16GB RDIMM SRx4 3200 (8Gb)	-	-	-
2	UCSC-PSU1-770W=	Cisco UCS 770W AC Power Supply for Rack Server	558.24	-	1,116.48
2	CAB-9K12A-NA=	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	25.97	-	51.94
1	UCSC-PCIE-IRJ45=	Intel I350 Quad Port 1Gb Adapter	1,418.60	-	1,418.60
Head End C8300 SIP Router (DNA Advr, 4FXO, 2FXS, 5yr)					
3	C8300-1N1S-6T	Cisco Catalyst C8300-1N1S-6T Router	9,232.51	-	27,697.53
3	CON-SNTE-C8300IN6T	5yrs SNTE-8X5X4 Cisco Catalyst C8300 (Smartnet)	10,615.15	-	31,845.45
3	MEM-C8300-8GB	Cisco Catalyst 8300 Edge 8GB memory	-	-	-
3	M2USB-16G	Cisco Catalyst 8000 Edge M.2 USB 16GB	-	-	-
3	C-RFID-1R	Cisco Catalyst 8000 Edge RFID - 1RU	-	-	-
3	C8300-RM-19-1R	Cisco Catalyst 8300 Rack mount kit - 19" 1R	-	-	-
3	C8300-PIM-BLANK	Cisco Catalyst 8300 Edge PIM Blank	-	-	-
3	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	-	-	-
3	TE-R-SW	TE agent for IOSXE on Enterprise Routing	-	-	-
3	IOSXE-AUTO-MODE	IOS XE Autonomous boot up mode for Unified Image	-	-	-
3	SC8KBEUK9-176	UNIVERSAL	-	-	-
6	PWR-CC1-400WAC	Cisco C8300 1RU AC Power supply	-	-	-
6	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m	-	-	-
3	NIM-PVDM-64	NIM with 64-channel DSP	2,853.69	-	8,561.07
3	NIM-2FXS/4FXOP	2-Port FXS/FXS-E/DID and 4-Port FXO Network Interface Module	1,246.87	-	3,740.61
3	C-SM-NIM-ADPT	Cisco Catalyst SM to NIM Module Adaptor	1,258.99	-	3,776.97
3	DNA-P-T0-A-3Y	Cisco DNA Advantage On-Prem Lic 3Y - upto 25M (Aggr, 50M)	2,968.52	-	8,905.56
3	SVS-PDNA-ADV	Embedded Support for SW - Tiered DNA Advantage On-Prem	-	-	-
3	DSTACK-T0-A	Cisco DNA Advantage Stack - upto 25M (Aggr, 50M)	-	-	-

3	NWSTACK-T0-A	Cisco Network Advantage Stack - upto 25M (Aggr, 50M)	-	-	-
3	SDWAN-UMB-ADV	Cisco Umbrella for DNA Advantage	-	-	-
3	DNAC-ONPREM-PF	Cisco DNA Center On Prem Deployment Option for WAN	-	-	-
1	Addl Port Cards (2FXO for EoC1 and 4FXO for EoC2)		-	-	-
1	NIM-2FXO=	2-port Network Interface Module - FXO (Universal)	525.20	525.20	525.20
1	NIM-4FXO=	4-port Network Interface Module - FXO (Universal)	1,027.02	1,027.02	1,027.02
	Analog GWs (EoC1 and EoC2, 5yrs)		-	-	-
2	VG400-4FXS/4FXO	Cisco VG400 Analog Voice Gateway	3,440.01	3,440.01	6,880.02
2	CON-SNT-VG4004FO	5yrs SNTC-8X5XNBD Cisco VG400-Analog Voice G/w (Smartnet)	2,197.10	2,197.10	4,394.20
2	SL-VG400-UC-K9	Unified Communication License for VG400 Series	-	-	-
2	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m	-	-	-
2	PWR-VG400-AC	AC Power Supply for Cisco VG400	-	-	-
2	SVG400UK9-175	Cisco VG400 Series IOS XE Universal Image	-	-	-
	Analog GWs (Both for EoC1, 5yrs)		-	-	-
2	VG400-8FXS	Cisco VG400 Analog Voice Gateway	3,354.05	3,354.05	6,708.10
2	CON-SNT-VG4008X	5yrs SNTC-8X5XNBD Cisco VG400 Analog Voice G/w (Smartnet)	2,140.43	2,140.43	4,280.86
2	SL-VG400-UC-K9	Unified Communication License for VG400 Series	-	-	-
2	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m	-	-	-
2	PWR-VG400-AC	AC Power Supply for Cisco VG400	-	-	-
2	SVG400UK9-175	Cisco VG400 Series IOS XE Universal Image	-	-	-
	C8200 - Comm Ctr (DNA Adv, 4FXO, 2FXS, 5yr)		-	-	-
1	C8200-1N-4T	Cisco Catalyst C8200-1N-4T Router	3,776.93	3,776.93	3,776.93
1	CON-SNT-C82001N4	5yrs SNTC-8X5XNBD Cisco Catalyst C8200 (Smartnet)	3,029.03	3,029.03	3,029.03
1	MEM-C8200-8GB	Cisco Catalyst 8200 Edge 8GB memory	-	-	-

1	M2USB-16G	Cisco Catalyst 8000 Edge M.2 USB 16GB		
1	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m		
1	C-RFID-1R	Cisco Catalyst 8000 Edge RFID - 1RU		
1	C8200-RM-19-1R	Cisco Catalyst 8200 Rack mount kit - 19" 1R		
1	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment		
1	C8200-PIM-BLANK	Cisco Catalyst 8200 Edge PIM Blank		
1	TE-R-SW	TE agent for IOSXE on Enterprise Routing		
1	IOSXE-AUTO-MODE	IOS XE Autonomous boot up mode for Unified Image		
1	SC8KBEUK9-176	UNIVERSAL		
1	SVS-PDNA-ADV	Embedded Support for SW - Tiered DNA Advantage On-Prem		
1	SDWAN-UMB-ADV	Cisco Umbrella for DNA Advantage		
1	DNAC-ONPREM-PF	Cisco DNA Center On Prem Deployment Option for WAN		
1	DNA-P-T0-A-3Y	Cisco DNA Advantage On-Prem Lic 3Y - upto 25M (Aggr, 50M)	2,968.52	2,968.52
1	NWSTACK-T0-A	Cisco Network Advantage Stack - upto 25M (Aggr, 50M)		
1	DSTACK-T0-A	Cisco DNA Advantage Stack - upto 25M (Aggr, 50M)	1,246.87	1,246.87
1	NIM-2FXS/4FXOP	2-Port FXS/FXS-E/DID and 4-Port FXO Network Interface Module	17,333.66	17,333.66
1		Cisco Smartnet years 2-5	638.61	638.61
1	S&H	Freight		

PROJECT SUMMARY

Material Summary	\$ 246,772.09
Labor Summary	\$ 10,699.99
Total Customer Price	\$ 257,472.08
Annual Payment	\$ 51,494.42

* All work to be performed during normal business hours Monday through Friday between 8:00am and 5:00pm unless otherwise specified.

* Additional taxes may apply to both upfront and monthly charges and vary by location.

Cisco Business Edition 6000 Solutions

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Cisco Business Edition 6000 14 (Collaboration System Release Version 14)

The Cisco® Business Edition 6000 (BE6000) gives employees a full range of collaboration tools: premium voice, video, messaging, instant messaging and presence, conferencing, video conferencing, contact center services, mobility capabilities, and more. With these tools your small or midsize business can boost productivity among employees and strengthen relationships with customers and business partners. And they can help you speed decision making and reduce time to market.

Cisco BE6000 is purpose-built for companies with 25 to 1000 employees. The solutions consist of one or more modular, stackable servers so you can easily add more capacity to support additional users. And because they use virtualization technology, they pack a lot of collaboration tools into a small form factor.

Cisco BE6000 is delivered with a suite of preloaded, ready-to-activate unified communications and collaboration applications. And as your business needs grow, you can easily “turn on” the additional application options supported, including emergency services, contact center, video conferencing, edge connectivity, and more. Cisco BE6000 and Cisco Webex can be purchased together with a subscription using the [Cisco Collaboration Flex Plan](#), which enables customers to simplify purchasing with meetings, messaging, and calling capabilities in one offer.

With these choices in size and functionality, you can select a collaboration engine that meets your business’s specific needs.

Platform model options

Cisco BE6000 platforms are built on virtualized Cisco Unified Computing System™ (Cisco UCS®) products, which are designed for performance and density over a wide range of company sizes and business workloads. There are three models:

- BE6000H: Supports multiple applications (typically 8 to 10) in a single virtualized server platform; maximum capacity of 1000 users, 2500 devices, and 100 contact center agents. Ideal for medium- to large-scale end-to-end collaboration deployments (see Figure 1).
- BE6000M: Supports multiple applications (typically 5 to 7) in a single virtualized server platform; maximum capacity of 1000 users, 1200 devices, and 100 contact center agents. Ideal for medium-scale end-to-end collaboration deployments.

The servers are delivered ready for use, with a preinstalled virtualization hypervisor and preloaded software, ready to install. Specific details of BE6000 platform components are available at the links provided in following section.

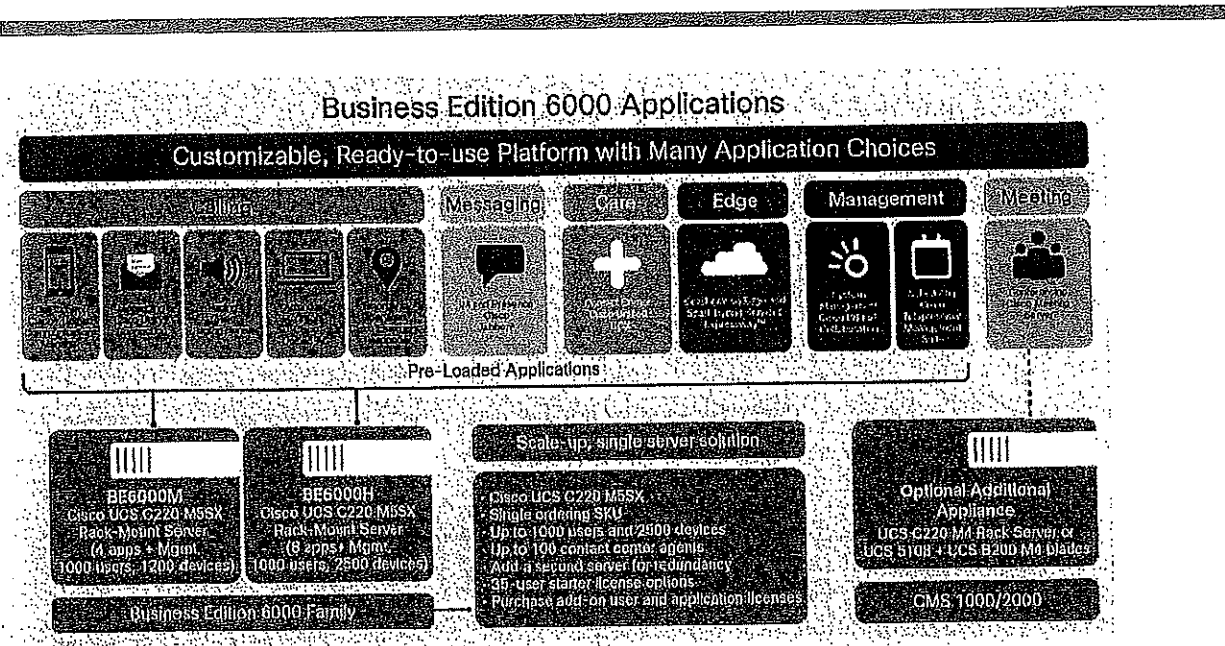


Figure 1.
Cisco BE6000H/M: Built for Medium-Scale Collaboration Deployments

The Cisco BE6000 is a packaged solution that comes preloaded with virtualization and applications software. Simply turn on additional collaboration applications as your business needs grow.

Applications

The following applications are typically used together to deliver the core unified communications features of each BE6000 solution:

Calling

- Cisco Unified Communications Manager (Cisco Unified CM) is the call-processing engine of Cisco's Collaboration Architecture. It extends voice and video features to network devices such as IP phones, telepresence endpoints, media-processing devices, gateways, and multimedia applications. Cisco Unified CM is equipped for use with the Instant Messaging (IM) and Presence Service. In addition, multimedia conferencing, collaborative contact centers, and interactive multimedia response systems are made possible through its open telephony APIs.
- Cisco Unity® Connection integrates voice-messaging and voice-recognition functions to provide continuous global access to calls and messages. Its advanced convergence-based communication services allow you to use natural-language voice commands to place calls or listen to messages in hands-free mode and to check voice messages from your desktop, either from your email inbox or using a web browser. It also provides robust auto-attendant functions, including intelligent routing for incoming calls and easily customizable call-screening and message-notification options.
- Cisco Unified Attendant Consoles provide the human attendant console operator with the tools to quickly accept and effectively dispatch incoming calls to individuals across the organization.

- Cisco Emergency Responder helps assure that Cisco Unified Communications Manager sends emergency calls to the appropriate United States Public Safety Answering Point (PSAP) for the caller's location, and that the PSAP can identify the caller's location and return the call if necessary. The system automatically tracks and updates equipment moves and changes, helping ensure better compliance with legal or regulatory obligations and reducing the risk of liability related to emergency calls as a result.
- Cisco Paging Server provides paging capabilities for all users. It supports basic and advanced paging features. Basic paging features require no license and allow point-to-point or group audio paging between groups of up to 50 Cisco IP phones. An advanced paging license allows unlimited paging groups. It also makes possible other advanced functions, including paging to overhead analog and IP speakers, bell scheduling, prioritizing emergency notifications with the call-barge option, prerecorded and text-only pages, integration with social media sites for notification, email and Short Message Service (SMS) mass notification and all-number monitoring, Emergency Services alerting, and integration with Cisco Jabber clients.

Messaging

- Cisco Unified Communications Manager IM and Presence Service provides embedded standards-based enterprise instant messaging and network-based presence. The service is secure, scalable, easy to manage, and rich in features. It's tightly integrated with Cisco Jabber® desktop and mobile instant messaging and presence clients and the Cisco Jabber Software Development Kit (SDK). Collaboration clients such as Cisco Jabber use products from the Cisco collaboration portfolio to perform many functions, such as instant messaging, presence, click-to-call, phone control, voice, video, visual voicemail, and web collaboration.

Contact Center

- Cisco Unified Contact Center Express product line helps businesses and organizations deliver a connected digital experience, enabling you to provide contextual, continuous, and capability-rich journeys for your customers, across time and channels. This easy-to-deploy and easy-to-use solution is designed for midmarket companies or enterprise branch offices. Secure and highly available, it supports powerful agent-based services and fully integrated self-service applications, including Automatic Call Distributor (ACD), Interactive Voice Response (IVR), Computer Telephony Integration (CTI), and digital channels, including email and chat.

Edge

- Cisco Expressway™ is an advanced gateway that helps make collaboration as simple, secure, and effective outside the organization as it is inside. Expressway provides remote access to mobile users and teleworkers, without the need for a separate VPN client. It supports business-to-business and business-to-consumer collaboration, and video interoperability with third-party standards-based systems. Expressway also enables seamless hybrid collaboration experiences, connecting on-premises unified communications assets to Cisco Webex® cloud services.

Management

- Cisco Prime® Collaboration Provisioning provides an automated process for initial deployments and for ongoing moves, adds, changes, and deletions. An intuitive user interface provides a single view of a subscriber and the subscriber's services. Cisco Prime Collaboration Provisioning significantly accelerates site rollouts and dramatically reduces the time required for ongoing changes. The result? Exceptional productivity gains and lower operating expenses. In addition, Cisco Prime Collaboration Provisioning simplifies the tasks, allowing organizations to optimize IT resources and further reduce total cost of ownership.
- Cisco Prime Collaboration Deployment is an application that is designed to assist in the management of unified communications applications. It allows you to perform tasks such as migration of older software versions to new virtual machines, fresh installs, and upgrades of existing applications.
- Cisco TelePresence® Management Suite offers flexible scheduling capabilities for video meetings, including the ability to integrate with Microsoft Exchange and Microsoft Office 365. At the core of the Cisco collaboration infrastructure portfolio, the suite facilitates on-premises video collaboration. It works with Cisco Meeting Server and Cisco TelePresence Server deployments.

Meetings

- **(Not preloaded)** Cisco Meeting Server brings premises-based video, audio, and web communication together to meet the collaboration needs of the modern workplace. It works with third-party devices and provides an enjoyable and intuitive user experience. It also scales easily and can be purchased using our all-in-one, user-based multiparty licensing offer.

In addition, when used with a Cisco Business Edition Embedded Virtualization Basic license, BE6000M and BE6000H platform models support co-residency of approved third-party collaboration applications as described in the Co-Residency Policy. Cisco Business Edition Embedded Virtualization Basic licenses may be replaced with a higher-tier feature edition to host any application if required.

Solution specifications: System capacity

Tables 1 and 2 list the system capacities supported by the BE6000 platform models. For solution design guidance and deployment models, please refer to the Preferred Architecture for Midmarket Collaboration and Cisco Validated Designs guides. The Cisco Solutions Reference Network Design (SRND) guides and the Cisco Collaboration Virtualization document are also available for more advanced implementations, as required.

Table 1. Cisco BE6000M and BE6000H Models System Capacity

Attribute	Capacity
Maximum number of users	1000
Maximum number of mailboxes and voicemail ports	1000 mailboxes and 24 voicemail ports
Number of contact center agents	100
Number of presence users	1000
Number of devices supported	BE6000H: 2500 devices BE6000M: 1200 devices

Attribute	Capacity
Maximum number of co-resident applications	BE6000H: varies by deployment, typically 8 to 10 per appliance BE6000M: varies by deployment, typically 5 to 7 per appliance

Table 2. Ordering Cisco Business Edition 6000 Platform Models

Part Number	Description
BE6H-M5-K9	Cisco Business Edition 6000H Svr (M5), Export Restricted SW
BE6H-M5-XU	Cisco Business Edition 6000H Svr (M5), Export Unrestrict. SW
BE6M-M5-K9	Cisco Business Edition 6000M Svr (M5), Export Restricted SW
BE6M-M5-XU	Cisco Business Edition 6000M Svr. (M5), Export Unrestrict. SW

Licensing

The collaboration applications in the BE6000 platform models are licensed on a per-user basis. Each BE6000 customer may purchase a Cisco Collaboration Flex Plan subscription at various feature levels for each of their users and common area devices. Cisco Collaboration Flex Plan provides simplified purchasing with flexible payment options, easily extensible functionality from calling and messaging to meetings and contact center, flexible migration to the cloud and enhanced visibility into collaboration usage. For more information, see <https://www.cisco.com/c/en/us/products/unified-communications/collaboration-flex-plan/index.html>.

Ordering information

To order any BE6000 platform model, simply purchase the required number of appliances and add application subscriptions to enable the required mix of features and number of users. Cisco channel partners and resellers can refer to the [Cisco Business Edition 6000 Ordering Guide](#) for further information.

To place an order, contact your local Cisco representative or visit [Cisco.com Locate a Partner](#) and search on "Advanced Collaboration Architecture Specialization (ACAS)," or "Cisco Express Collaboration Specialization" to find a certified unified communications partner in your local area.

Cisco Unified Communications Services

Cisco Unified Communications Services help you accelerate cost savings and productivity gains associated with deploying Cisco Unified Communications in your network. Delivered by Cisco and our certified partners, our portfolio of deployment and technical support services is based on proven methodologies for unifying voice, video, data, and mobile applications on fixed and mobile networks. Our unique lifecycle approach to these services can help you provide your users with powerful new ways to collaborate with co-workers, partners, and customers across any workspace to accelerate business advantage.

To learn more, please visit <https://www.cisco.com/go/ucservices>.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more.](#)

For more information

To learn more about Cisco Business Edition 6000 solutions, visit: <https://www.cisco.com/go/be6000>.

To learn more about Cisco's complete portfolio offering for midmarket, visit:
<https://www.cisco.com/go/midmarket>.

To learn more about resources for Cisco channel partners, visit: <https://www.cisco.com/go/bepartner>.

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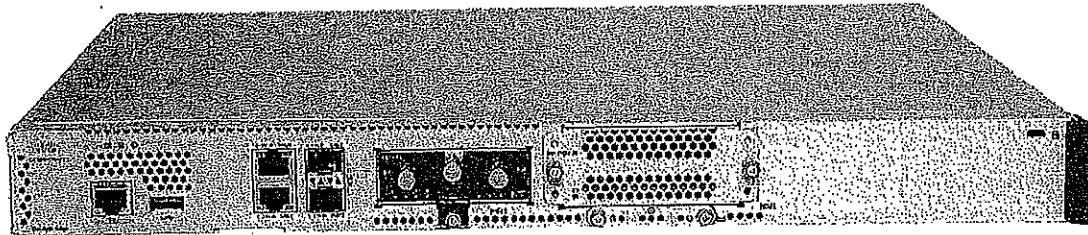
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Cisco Catalyst 8200 Series Edge Platforms

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The Cisco Catalyst 8200 Series Edge Platforms are 5G-ready cloud edge platforms designed for Secure Access Service Edge (SASE), multilayer security, and cloud-native agility to accelerate your journey to cloud.



The Cisco® Catalyst® 8200 Series Edge Platforms with Cisco IOS® XE SD-WAN software deliver Cisco's secure, cloud-scale SD-WAN solution for the small branch. The platforms are purpose-built for performance and integrated SD-WAN services along with flexibility to deliver security and networking services together from the cloud or on premises. They have a wide variety of interface options to choose from, with backward compatibility to existing WAN, LAN, and voice modules. Powered by Cisco IOS XE, a fully programmable software architecture, and API support, the Catalyst 8200 Series can facilitate automation at scale to achieve zero-touch IT capability while migrating workloads to the cloud. The platforms also come with a trustworthy solutions 2.0 infrastructure that secures them against threats and vulnerabilities through advanced integrity verification and remediation of threats.

The 8200 Series is well suited for small and medium-sized enterprise branch offices at optimal price/performance with integrated SD-WAN services.

The Catalyst 8200 Series Edge Platforms are offered in two models: C8200L-1N-4T for the small branch with SASE-compliant, cloud-based security requirements, and C8200-1N-4T for the small to medium-sized branch with requirements for higher throughput, scale, and service flexibility. In addition to supporting SASE-compliant cloud-based security services, the C8200-1N-4T also delivers a flexible system of best-in-class, on-premises security services through container-based apps, using Cisco's third-party ecosystem.

Product overview

Product highlights

Table 1. Product highlights

Product feature	Benefits and description
Multicore processors	• C8200-1N-4T uses an Intel® x86 CPU with 8 GB DRAM memory default • C8200L-1N-4T uses an Intel x86 CPU with 4 GB DRAM memory default • High-performance multicore processors support high-speed WAN connections • Dynamic core allocation architecture will repurpose unused cores into forwarding entities as per the user's configuration
Embedded IPsec VPN hardware acceleration	• C8200-1N-4T enables up to 1 Gbps IPsec traffic • C8200L-1N-4T enables up to 500 Mbps IPsec traffic • Increases scalability for IPsec throughput requirements • SSL and crypto hardware acceleration
Integrated Gigabit Ethernet ports	• Provides four built-in Ethernet WAN ports • Two Ethernet ports are Small Form-Factor Pluggable (SFP) and two are RJ45 ports, enabling fiber as well as copper connectivity
DRAM	• C8200-1N-4T ships with 8 GB DRAM • C8200L-1N-4T ships with 4 GB DRAM • C8200-1N-4T can be upgraded to 16 GB and 32 GB DRAM for higher scale and performance • C8200L-1N-4T can be upgraded to 8GB, 16 GB and 32 GB DRAM for higher scale and performance
Flash memory support	• Both models have an integrated onboard 8-GB flash which is not upgradable. M.2 storage provides flash upgrade options
M.2 storage	• The C8200-1N-4T is shipped with default 16G M.2 storage and can be upgraded to 32G M.2 USB and 600G M.2 Non-Volatile Memory Express (NVMe) Storage • The C8200L-1N-4T does not ship with a default M.2 storage but can be upgraded to 16G, 32G USB and 600G M.2 Non-Volatile Memory Express (NVMe) Storage
Power supply	• Both models use an internal, fixed AC power supply • Power over Ethernet (PoE) is available as an option • PoE ports added in the Network Interface Module (NIM) slot will require an additional external PoE power supply
Modularity and form factor	• 1-Rack Unit (1RU) form factor • Supports NIM and Pluggable Interface Module (PIM) slots
Integrated security	• Hardware-anchored Secure Boot and Secure Unique Device Identification (SUDI) support for Plug and Play to verify the identity of the hardware and software

Platform details

Models and configurations

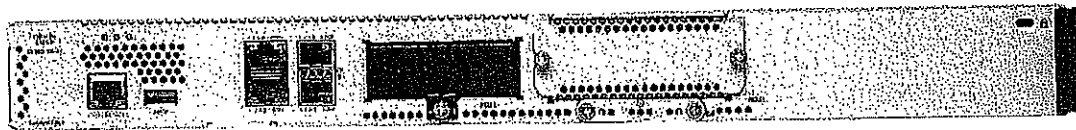


Figure 1.
Catalyst 8200 Series with 1 NIM slot and 4x 1 Gigabit Ethernet WAN ports

Tables 2 and 3 detail platform specifications and performance, respectively.

Table 2. Platform specifications

Model	Description	1G port density	Slots	Memory (DRAM) default	Storage (M.2 SSD) default
C8200-1N-4T	C8200 1RU w/ 1 NIM slot and 4x 1 Gigabit Ethernet WAN ports	4	1 NIM 1 PIM	8 GB	16 GB
C8200L-1N-4T	C8200L 1RU w/ 1 NIM slot and 4x 1 Gigabit Ethernet WAN ports	4	1 NIM 1 PIM	4 GB	No

*16GB eUSB M.2 can only be ordered as a spare.

Platform performance

Table 3a Cisco controller mode (SD-WAN) performance specifications

Feature	C8200-1N-4T	C8200L-1N-4T
SD-WAN IPsec throughput (1400 bytes)	Up to 1 Gbps	Up to 500 Mbps
SD-WAN IPsec throughput (IMIX¹)	900 Mbps	400 Mbps
SD-WAN overlay tunnels scale	2500	1500

¹IMIX is average packet size of 352 bytes.

Table 3b Cisco autonomous mode (non SD-WAN) performance specifications

Feature	C8200-1N-4T	C8200L-1N-4T
IPv4 forwarding throughput (1400 bytes)	Up to 3.8 Gbps	Up to 3.8 Gbps
IPsec throughput (1400 bytes)	Up to 1 Gbps	Up to 500 Mbps
Number of IPsec Static Virtual Tunnel Interface (SVTI) tunnels	2500	1500

Table 3c Cisco autonomous mode (non SD-WAN) system scalability

Feature	C8200-1N-4T	C8200L-1N-4T
Number of Access Control Lists (ACLs) per system	4000	4000
Number of IPv4 Access Control Entries (ACEs) per system	72,000	72,000
Number of IPv4 routes	1.6M with default 8 GB, up to 4M with 32 GB	800,000 with default 4 GB, up to 4M with 32 GB
Number of IPv6 routes	1.5M with default 8 GB, up to 4M with 32 GB	800,000 with default 4 GB, up to 4M with 32 GB
Number of queues	16,000	16,000
Number of Network Address Translation (NAT) sessions	1.2M with default 8 GB, up to 2M with 32 GB	600,000 with default 4 GB, up to 2M with 32 GB
Number of firewall sessions	512,000	512,000
Number of Virtual Route Forwarding (VRF) instances	4000	2000

Overall platform benefits

Accelerated services with Cisco Software-Defined WAN

Cisco SD-WAN is a set of intelligent software services that allow you to connect users, devices, and branch office locations reliably and securely across a diverse set of WAN transport links. The Cisco Catalyst 8000 Edge Platforms Family can dynamically route traffic across the “best” link based on up-to-the-minute application and network conditions for great application experiences. With Cisco SD-WAN you get tight control over application performance, bandwidth usage, data privacy, and availability of your WAN links. This control is critical as branches conduct greater volumes of mission-critical business using both on-premises and cloud controllers.

Application performance optimization

Ensure that SD-WAN networks meet Service-Level Agreements (SLAs) and maintain strong performance, even if network problems occur. With branch multicloud access, you can accelerate your Software-as-a-Service (SaaS) applications with a simple template push from the SD-WAN controller. Features such as TCP optimization, Forward Error Correction (FEC), and packet duplication enhance application performance for a better user experience.

Multilayer security

You can now move your traditional and complex WAN networks into an agile, software-defined WAN with integrated security. The Catalyst 8200 Series Edge Platforms connect branch offices to the Internet and cloud with industry-leading protection against major web attacks. Secure Direct Internet Access (DIA) from the branches helps optimize branch workloads for improved performance, specifically for cloud-hosted applications. At the same time, secure DIA helps ensure that your branch is protected from external threats.

Application visibility

Applications and users are more distributed than ever, and the internet has effectively become the new enterprise WAN. As organizations continue to embrace internet, cloud, and SaaS, network and IT teams are challenged to deliver consistent and reliable connectivity and application performance over networks and services they don't own or directly control.

The Catalyst 8200 Series Edge Platforms are integrated with Cisco ThousandEyes internet and cloud intelligence. IT managers now have expanded visibility, including hop-by-hop analytics, into network underlay, proactive monitoring of SD-WAN overlay, and performance measurement of SaaS applications. This granular visibility ultimately lowers the Mean Time to Identification of Issues (MTTI) and accelerates resolution time.

Unified communications

The Catalyst 8200 Series Edge Platforms offer rich voice services in both SD-WAN and traditional Cisco IOS XE software feature stacks. Cisco is the only SD-WAN vendor to natively integrate analog and digital IP directly into single Customer Premises Equipment (CPE), reducing CapEx and OpEx. In SD-WAN mode, the Catalyst 8200 Series also helps prevent internal and external outages with Survivable Remote Site Telephony (SRST), enabling branch routers to assume the role of call control PBX for telephony survivability. They also continue to support a long list of traditional Cisco IOS XE voice use cases such as Cisco Unified Border Element (CUBE) Session Border Controller (SBC), Cisco Unified Communications Manager Express (CUCME), Survivable Remote Site Telephony (SRST), ISDN, and voice over IP.

Cloud-native agility with a programmable software architecture

Cisco continues to offer a feature-rich traditional Cisco IOS XE routing stack on the Catalyst 8200 Series. IP routing, IPsec, QoS, firewall, NAT, Network-Based Application Recognition (NBAR), Flexible NetFlow (FNF), and many other features are part of Cisco IOS XE, a fully programmable software architecture with API support and a wide variety of protocols and configurations. With an integrated software image and a single binary file, you can now choose between Cisco IOS XE SD-WAN and Cisco IOS XE. And you can easily move from one to the other when you choose to do so.

5G-ready

The Catalyst 8200 Series Edge Platforms are built for high-speed Cat18 LTE and 5G networks. With the higher throughputs from Cat18 LTE and 5G, wireless WAN solutions are becoming feasible options for primary transport use cases. These platforms support both integrated pluggable modules as well as external Cellular Gateways with Cat18 LTE and 5G capability for improved throughput that addresses those use cases. An integrated PIM module or external Cellular Gateway can be chosen based on a specific branch's cellular coverage, or work in tandem forming a high-availability Active-Active cellular WAN solution.

Interface flexibility

Layer 2 (Switched) and Layer 3 (Routed) ports

The Catalyst 8200 Series continues Cisco's support for a flexible single-box solution with both switching and routing for a small branch. Layer 2 NIM modules provides 4- and 8-port switching with PoE capability and NIM based Layer 3 port modules provides extended Layer 3 port density in addition to the four embedded Layer 3 ports

Voice modules

The Catalyst 8200 Series continues Cisco's support for a variety of voice modules for the different voice needs at the branch. Voice module examples include Foreign Exchange Station (FXS), Foreign Exchange Office (FXO), Digital Signal Processor (DSP), etc.

Supported modules

Table 4. Modules supported

Product number	Description
Ethernet Layer 3 Interface	
C-NIM-1M	1-port 2.5/1Gbps RJ-45 WAN, 90W Poe 802.3 af/at/bt NIM
C-NIM-2T	2-port 100Mbps/1Gbps dual-mode RJ45/SFP NIM with WAN MACSec
LAN modules	
NIM-ES2-4	Cisco 4-port Gigabit Ethernet switch NIM
NIM-ES2-8	Cisco 8-port Gigabit Ethernet switch NIM
NIM-ES2-8-P	Cisco 8-port Gigabit Ethernet switch NIM with PoE 802.3 af/at support
Voice modules	
NIM-2FXO	2-port FXO NIM
NIM-4FXO	4-port FXO NIM
NIM-2FXSP	2-port FXS NIM
NIM-4FXSP	4-port FXS NIM
NIM-2FXSP/4FXOP	2-port FXS and 4-port FXO NIM
NIM-4E/M	4-port E/M NIM
NIM-2BRI-NT/TE	2-port BRI (NT and TE) NIM
NIM-4BRI-NT/TE	4-port BRI (NT and TE) NIM
NIM-PVDM-32	32-channel voice DSP NIM

Product number	Description
NIM-PVDM-64	64-channel voice DSP NIM
NIM-PVDM-128	128-channel voice DSP NIM
NIM-PVDM-256	256-channel voice DSP NIM
NIM-1MFT-T1/E1	1-port multiflex trunk voice/clear-channel data T1/E1 module
NIM-2MFT-T1/E1	2-port multiflex trunk voice/clear-channel data T1/E1 module
NIM-4MFT-T1/E1	4-port multiflex trunk voice/clear-channel data T1/E1 module
NIM-8MFT-T1/E1	8-port multiflex trunk voice/clear-channel data T1/E1 module
DSL/broadband	
NIM-VAB-A	Multi-mode VDSL2/ADSL/2/2+ NIM Annex A
NIM-VA-B	Multi-mode VDSL2/ADSL/2/2+ NIM Annex B
NIM-VAB-M	Multi-mode VDSL2/ADSL/2/2+ NIM Annex M
NIM-4SHDSL-EA	Multi-mode G.SHDSL NIM
Channelized T1/E1 and ISDN PRI	
NIM-1CE1T1-PRI	1-port Multiflex trunk voice/channelized data T1/E1 module
NIM-2CE1T1-PRI	2-port Multiflex trunk voice/channelized data T1/E1 module
NIM-8CE1T1-PRI	8-port Multiflex trunk voice/channelized data T1/E1 module
ISDN BRI WAN interface	
NIM-2BRI-S/T	2-port ISDN BRI WAN interface card for data
NIM-4BRI-S/T	4-port ISDN BRI WAN interface card for data
Serial WAN interface	
NIM-1T	1-port serial high-speed WAN interface card
NIM-2T	2-port serial high-speed WAN interface card
NIM-4T	4-port serial high-speed WAN interface card
Async WAN interface	
NIM-16A	16-port Asynchronous Module
NIM-24A	24-port Asynchronous Module

Product number	Description
Wireless WAN (LTE)	
P-5GS6-GL	5G Sub-6 GHz Pluggable - Global
P-LTEAP18-GL	4G/CAT18 LTE Advanced Pro Pluggable - Global
P-LTEA-EA	4G/CAT6 LTE Advanced Pluggable for North American and Europe
P-LTEA-LA	4G/ CAT6 LTE Advanced Pluggable for APAC, ANZ, and LATAM
NIM-LTEA-EA	LTE Advanced for Europe and North America
NIM-LTEA-LA	LTE Advanced for Asia Pacific, Australia and LATAM

Memory, storage, and accessory options

Table 5. Memory, storage, and accessory options

Product number	Description
MEM-C8200-8GB	Cisco C8200 Edge Platform - 8 GB DRAM Memory
MEM-C8200-16GB	Cisco C8200 Edge Platform - 16 GB DRAM Memory
MEM-C8200-32GB	Cisco C8200 Edge Platform - 32 GB DRAM Memory
M2USB-16G	Cisco C8000 Edge Platform - 16 GB M.2 USB SSD Storage
M2USB-32G	Cisco C8000 Edge Platform - 32 GB M.2 USB SSD Storage
SSD-M2NVME-600G	Cisco C8000 Edge Platform - 600 GB M.2 NVMe SSD Storage
C8200-RM-19	Cisco C8200 1RU Edge Platform - Rack Mount kit - 19"
C8200-RM-23	Cisco C8200 1RU Edge Platform - Rack Mount kit - 23"
C8200-WM-1R	Cisco C8200 1RU Edge Platform - Wall Mount Kit
C8200-RFID-1R	Cisco C8200 1RU Edge Platform - RFID
C8200-NIM-BLANK	Cisco C8200 NIM Blank
C8200-PIM-BLANK	Cisco C8200 PIM Blank

Optics and transceivers modules

Find a full list of optics and transceivers [here](#).

Power supplies

Table 6. Power supply specifications

Power supply feature	Default	PWR-CC1-150WAC optional external PSU for PoE
Power maximum rating	100W	150W For PoE only PoE budget: 150W
Input-voltage range and frequency	90 to 264 VAC 47 to 63 Hz	90 to 264 VAC 47 to 63 Hz
Power supply efficiency	85%	Avg 89%
Input current	1.5A max	2A max
Output ratings	12V 8.4A	54V 2.78A
Output holdup time	20 ms	10 ms
Power supply input receptacles	IEC 320 C14	IEC 320 C14
Power cord rating	10A	10A

Asset management: The Catalyst 8200 Series Edge Platforms have an embedded RFID tag that holds the serial number and product ID for easy asset and inventory management using commercial RFID readers. The RFID tag is external and can be easily removed if needed or can be unselected at the time of ordering. It also features an extendable label tag providing the same information. A QR code on this tag makes asset management easy by simply scanning the label using a smartphone QR reader.

Software requirements

Cisco DNA Software for the Catalyst 8200 Series offers comprehensive solutions for enterprise branch networks.

Table 7. Minimum software requirements

Platform product ID (PID)	Description	Minimum software requirement
C8200-1N-4T	Cisco Catalyst 8200 Series Edge Platform	Cisco IOS XE Software Release 17.4.1
C8200L-1N-4T	Cisco Catalyst 8200 Series Edge Platform	Cisco IOS XE Software Release 17.5.1

Table 8. ThousandEyes requirements

Feature	Requirements
Cisco ThousandEyes	ThousandEyes is supported with a minimum 8 GB DRAM and 8 GB bootflash/storage. Additional memory and storage will be necessary for concurrently running the ThousandEyes agent with containerized SD-WAN security services.

Table 9a. Software features and protocols for autonomous mode

Feature	Description
Protocols	IPv4, IPv6, static routes, Routing Information Protocol Versions 1 and 2 (RIP and RIPv2), Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP), BGP Route Reflector, Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group Management Protocol Version 3 (IGMPv3), Protocol Independent Multicast Sparse Mode (PIM SM), PIM Source-Specific Multicast (SSM), Resource Reservation Protocol (RSVP), Cisco Discovery Protocol, Encapsulated Remote Switched Port Analyzer (ERSPAN), Cisco IOS IP Service-Level Agreements (IPSLA), Call Home, Cisco IOS Embedded Event Manager (EEM), Internet Key Exchange (IKE), ACLs, Ethernet Virtual Connections (EVC), Dynamic Host Configuration Protocol (DHCP), Frame Relay, DNS, Locator ID Separation Protocol (LISP), Hot Standby Router Protocol (HSRP), RADIUS, Authentication, Authorization, and Accounting (AAA), Application Visibility and Control (AVC), Distance Vector Multicast Routing Protocol (DVMRP), IPv4-to-IPv6 Multicast, Multiprotocol Label Switching (MPLS), Layer 2 and Layer 3 VPN, IPsec, Layer 2 Tunneling Protocol Version 3 (L2TPv3), Bidirectional Forwarding Detection (BFD), IEEE 802.1ag, and IEEE 802.3ah
Encapsulations	Generic Routing Encapsulation (GRE), Ethernet, 802.1q VLAN, Point-to-Point Protocol (PPP), Multilink Point-to-Point Protocol (MLPPP), Frame Relay, Multilink Frame Relay (MLFR) (FR.15 and FR.16), High-Level Data Link Control (HDLC), serial (RS-232, RS-449, X.21, V.35, and EIA-530), and PPP over Ethernet (PPPoE)
Traffic management	QoS, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Hierarchical QoS, Policy-Based Routing (PBR), Performance Routing (PfR), and NBAR
Cryptographic algorithms	Encryption: Data Encryption Standard (DES), 3DES, Advanced Encryption Standard (AES)-128 or AES-256 (in Cipher Block Chaining [CBC] and Galois/Counter Mode [GCM]) Authentication: RSA (768/1024/2048 bit), ECDSA (256/384 bit) Integrity: MD5, SHA, SHA-256, SHA-384, SHA-512
Unified communications	Call Admission Control (CAC), Cisco Unified Border Element (CUBE) Session Border Controller (SBC), Cisco Unified Communications Manager Express (CUCME), (ISDN), RADIUS, RFC 4040-based clear channel codec signaling with Session Initiation Protocol (SIP), Resource Reservation Protocol (RSVP), RTP Control Protocol (RTCP), SIP for voice over IP (VoIP), Survivable Remote Site Telephony (SRST), Secure Real-Time Transport Protocol (SRTP), and voice modules

Table 9b. Software features and protocols for controller mode

Feature	Description
Core features	IPv4, IPv6, static routes, OSPF, EIGRP, BGP, Overlay Management Protocol (OMP), Application Aware Routing (AAR), Traffic Engineering, service insertion, zero trust, whitelisting, tamper-proof module, DTLS/TLS, IPsec, classification, prioritization, low latency queuing, remarking, shaping, scheduling, policing, mirroring, Multicast IPv4 support, service advertisement and insertion policy, Simple Network Management Protocol (SNMP), Network Time Protocol (NTP), DNS client, DHCP, DHCP client, DHCP server, DHCP relay archival, syslog, Secure Shell (SSH), Secure Copy (SCP), Cflowd v10 IPFIX export, IPv6 for transport side, Virtual Router Redundancy Protocol (VRRP), MPLS, NAT (DIA, service-side, overload/PAT, NAT64, etc.), NAT pools, split DNS, ACLs, BFD, NETCONF over SSH, CLI, NTP server support, BFD with service-side BGP, BGP community propagation to OMP, 6 SLA for AAR, Cisco TrustSec/SD-Access (inline scalable group tag [SGT] propagation), custom app with Software-Defined AVC (SD-AVC), multicast AAR, dynamic on-demand tunnels, OSM, OSPFv3, route policies, multi-VRF support
Encapsulations	Generic Routing Encapsulation (GRE), Ethernet, 802.1q VLAN

Feature	Description
Application experience	QoS, FEC, Class of Service (CoS) marking, Weighted Random Early Detection (WRED), Hierarchical QoS, PBR, NBAR, SD-AVC, per-tunnel QoS, Cloud OnRamp for SaaS, Enhanced Office 365 traffic steering, direct access, FNF
Cryptographic algorithms	Encryption: AES-256 (in CBC and GCM modes), Internet Key Exchange (IKE), Cisco Public Key Infrastructure (PKI) Authentication: AAA, RSA (2048 bit), ESP-256-CBC, HMAC-SHA1, ECDSA (256/384 bit) Integrity: SHA-1, SHA-2
Security: C8200-1N-4T	Built-in end-to-end segmentation (VPNs), zone-based firewall (ZBFW), PKI, Cisco DNA Layer Security, Snort® IPS/IDS, URL filtering, Secure Malware Defense, Secure Malware Analytics, Application-Level Gateway (ALG) for ZBFW, Secure Internet Gateway (SIG)
Security: C8200L-1N-4T	Built-in end-to-end segmentation (VPNs), ZBFW, PKI, Cisco DNA Layer Security, SIG
Unified communications	Cisco Unified Border Element (CUBE), Survivable Remote Site Telephony (SRST), Cisco Unified Communications Manager Express (CUCME) & voice modules

Licensing

The Catalyst 8200 Series Edge Platforms are offered only with a Cisco DNA Software subscription, Enterprise Agreement, and Managed Service Licensing Agreement (MSLA). For more details, refer to this [licensing guide](#).

Cisco DNA stack:

- Cisco DNA Essentials
- Cisco DNA Advantage
- Cisco DNA Premier

Network stack:

- Network Essentials
- Network Advantage

For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide

Cisco ThousandEyes

A valid ThousandEyes agent license is required to activate the ThousandEyes agent. Existing ThousandEyes subscriptions can be leveraged on eligible Catalyst 8200 Series platforms. Additional ThousandEyes subscription information can be found [here](#).

Product sustainability

Information about Cisco's environmental, Social and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability [reporting](#).

Sustainability Topic	Reference
General	
Information on product-material-content laws and regulations	Materials
Information on electronic waste laws and regulations, including our products, batteries and packaging	WEEE Compliance
Sustainability Inquiries	Contact: csr_inquiries@cisco.com
Information on product takeback and reuse program	Cisco Takeback and Reuse Program
Operating and nonoperating conditions	Table 10. Mechanical specifications
Mean Time Between Failures (MTBF)	Table 10. Mechanical specifications
Safety and EMC (emissions, immunity and ETSI/EN)	Table 11. Mechanical specifications
Power	
Power Supply	Table 1. Product highlights Table 6. Power supply specifications
Material	
Product packaging weight and materials	Contact: environment@cisco.com
Dimensions and weight	Table 10. Mechanical specifications

Specifications

Table 10. Mechanical specifications

Description	Specification
Part number	C8200-1N-4T & C8200L-1N-4T
Dimensions (H x W x D)	1.73 x 17.25 x 11.8 in. (4.39 x 43.81 x 29.97 cm)
Rack Units (RU)	1RU
Chassis weight	10 lb (4.54 kg)
Input voltage	AC: 90 to 264 VAC
Operating temperature	32° to 104°F (0° to 40° C)
Storage temperature	-40° to 150°F (-40° to 70° C)

Description	Specification
Acoustics, both models: Sound pressure (Typical/maximum)	54 dBA/69 dBA
Acoustics, both models: Sound power (Typical/maximum)	68 dBA/80 dBA
Relative humidity operating and nonoperating noncondensing	Ambient (noncondensing) operating: 5% to 85% Ambient (noncondensing) nonoperating and storage: 5% to 95%
Altitude	0 to 10,000 feet (0 to 3050 meters)
Mean Time Between Failures (MTBF)	692,577 hours

Table 11. Safety and compliance

Description	Specification
Safety certifications	UL 60950-1 CAN/CSA-C22.2 No. 60950-1 EN 60950-1 IEC 60950-1 AS/NZS 60950-1 IEC/EN 60825 Laser Safety FDA: Code of Federal Regulations Laser Safety
EMC (emissions)	47 CFR Part 15 Class A ICES 003 Class A AS/NZS CISPR 32 Class A CISPR 32 Class A EN55032 Class A VCCI-CISPR 32 Class A CNS-13438 Class A KN32 Class A IEC/EN 61000-3-2: Power Line Harmonics IEC/EN 61000-3-3: Voltage Fluctuations and Flicker

Description	Specification
EMC (immunity)	IEC/EN-61000-4-2: Electrostatic Discharge Immunity IEC/EN-61000-4-3: Radiated Immunity IEC/EN-61000-4-4: Electrical Fast Transient Immunity IEC/EN-61000-4-5: Surge AC, DC, and Signal Ports IEC/EN-61000-4-6: Immunity to Conducted Disturbances IEC/EN-61000-4-8: Power Frequency Magnetic Field Immunity IEC/EN-61000-4-11: Voltage DIPS, Short Interruptions, and Voltage Variations KN35
EMC (ETSI/EN)	EN300 386: Telecommunications Network Equipment (EMC) EN55032: Multimedia Equipment (Emissions) EN55024: Information Technology Equipment (Immunity) EN55035: Multimedia Equipment (Immunity) EN61000-6-1: Generic Immunity Standard

Services

Cisco Customer Experience support services for Catalyst 8000 platforms and Cisco DNA Software for SD-WAN and Routing

This section discusses the Cisco support services available for the Catalyst 8000 platforms and associated Cisco DNA Software for SD-WAN and Routing, as well as optional support service offers.

- **Catalyst 8000 platforms:** Cisco Solution Support is the default and recommended Cisco support service. However, Cisco Solution Support is not mandatory; it can be removed or replaced with another Cisco support service or partner service per the customer's preference.
- **Cisco DNA Software for SD-WAN and Routing:** Cisco Solution Support is the default Cisco support service. However, Cisco Solution Support is not mandatory; the customer may choose to use the Cisco Subscription Embedded Software Support included with the purchase of this software.

Note:

- When Solution Support is selected, it must be ordered on both the Catalyst 8000 platform and Cisco DNA Software for SD-WAN and Routing for complete customer entitlement to this premium support service.
- SD-WAN and Routing customers with Solution Support or Cisco Subscription Embedded Software Support are entitled to maintenance releases and software updates for **Cisco DNA SD-WAN and Routing software only**. Support for the Catalyst 8000 platform's OS and network stack, along with OS updates, is covered by the support contract on the Catalyst 8000 platform.
- For ThousandEyes support, C8200L-1N-4T must be upgraded to a minimum of 8GB DRAM

Cisco Solution Support is a premium support purpose-built for today's multiproduct, multivendor network environments and provides:

- A primary point of contact, centralizing support across a solution deployment
- Solution, product, and interoperability expertise
- No requirement for customers to isolate their issue to a product to open a case
- 30-minute service response objective for Severity 1 and 2 cases
- Prioritized case handling over product support cases
- Product support team coordination (Cisco and Solution Support Alliance Partners)
- Accountability for multiproduct, multivendor issue management from first call to resolution, no matter where the issue resides

Learn more about Cisco Solution Support at www.cisco.com/go/solutionsupport

Cisco Subscription Embedded Software Support includes:

- Access to support and troubleshooting via online tools and web case submission. Case severity or escalation guidelines are not applicable.
- Cisco Technical Assistance Center (TAC) access 24 hours per day, 7 days per week to assist by telephone, or web case submission and online tools with application software use and troubleshooting issues.
- Access to www.cisco.com, providing helpful technical and general information on Cisco products, as well as access to Cisco's online Software Center library.

Note: No additional products or fees are required to receive embedded support for Cisco DNA Software for SD-WAN and Routing. However, if using embedded support for this software, hardware support for the Catalyst 8000 platforms must be purchased separately, as Cisco Subscription Embedded Software Support does not cover hardware. In this case, Cisco Smart Net Total Care® Service is recommended for the Catalyst 8000 platforms.

Cisco Capital

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Ordering information

To place an order, visit the [Cisco Ordering Home Page](#). To download software, visit the [Cisco Software Center](#).

For more information

For more information about the Cisco Catalyst 8200 Series Edge Platforms, visit <https://www.cisco.com/go/C8200> or contact your local Cisco account representative.

Document history

New or Revised Topic	Described In	Date
Updated licensing information	Licensing	Jun 25, 2021

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Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
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Cisco VG400 Analog Voice Gateway

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The Cisco® VG400 Analog Voice Gateway enables an IP telephony solution to continue using traditional analog devices while taking advantage of the productivity afforded by IP infrastructure (Figure 1).

The Cisco Unified Communications portfolio of voice and IP communications products and applications enables organizations to communicate more effectively, helping them to streamline business processes, reach the right resource the first time, and improve revenue sales and profitability.

This portfolio is a critical part of the Cisco Business Communications Solution, an integrated solution for organizations of all sizes that also includes network infrastructure, security and network management products, wireless connectivity, and a lifecycle services approach, along with flexible deployment and outsourced management options, end-user and partner financing packages, and third-party communications applications.

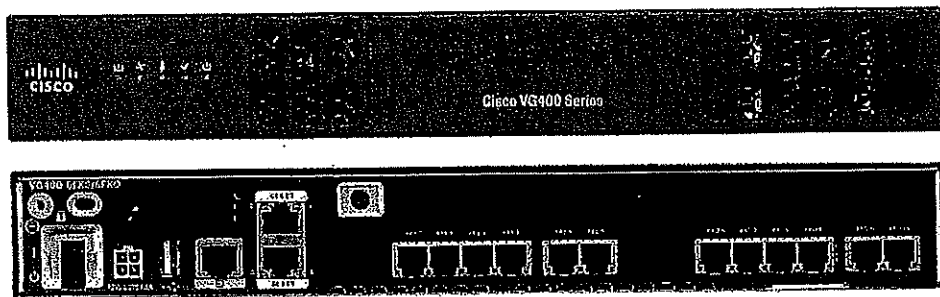


Figure 1.
Cisco VG400 Analog Voice Gateway

The Cisco VG400 is a Cisco IOS® XE Software-based analog phone voice gateway. It connects analog phones, fax machines, modems, and speakerphones to an enterprise voice system based on Cisco Unified Communications Manager. The tight integration with the IP-based phone system is advantageous for increased manageability, scalability, and cost-effectiveness. Businesses can also use the VG400 with Cisco Unified Communications Manager Express to effectively augment an Integrated Services Router (ISR) environment. Either topology environment will support business needs for a high concentration of analog voice ports for modem calls, fax calls, and analog supplementary services (Figures 2 and 3).

The Cisco VG400 offers Cisco IOS XE Software manageability on analog phone lines to enable them to be used as extensions of the Cisco Unified Communications Manager or Cisco Unified Communications Manager Express system.

Features and Benefits

- **Cisco IOS XE Software-based hardware:** The hardware supports a uniform Cisco Command-Line Interface (CLI) and Simple Network Management Protocol Version 3 (SNMPv3) for ease of gateway configuration and operation.
- **Robust voice quality:** Cisco experience in providing toll-quality packet-voice service helps ensure that the VG400 provides the clear, robust voice quality end users have come to expect from telephony services.
- **Investment protection:** Customers can continue to use existing analog phones, fax machines, and modems while taking advantage of IP telephony. Basic analog phone connectivity is needed when the infrastructure (wiring) or application does not support or require IP phones. The Cisco VG400 is the ideal platform to support distributed and low- to medium-density analog phone line deployments, allowing organizations to deploy IP telephony without having to purchase IP phones for all users and to continue using existing devices. The VG400 can also be used in a Cisco Unified Communications Manager Express environment and migrated to a Cisco Unified Communications Manager deployment with 100 percent investment protection.
- **Reduced barrier to entry:** The Cisco VG400 provides a low-cost alternative for low-end analog phones and allows organizations to take advantage of IP telephony with a lower overall IP telephony investment.

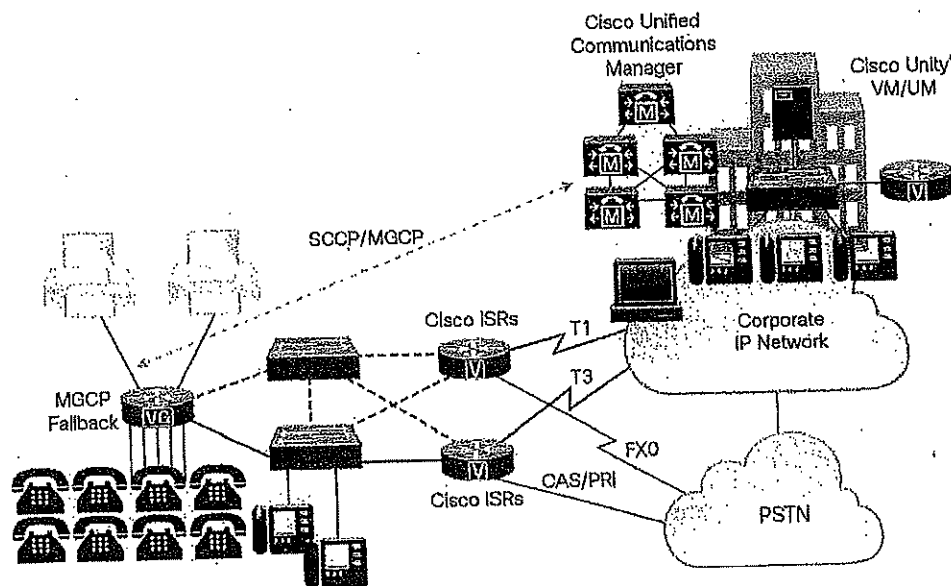


Figure 2.
VG400 Integration with Cisco Unified Communications Manager

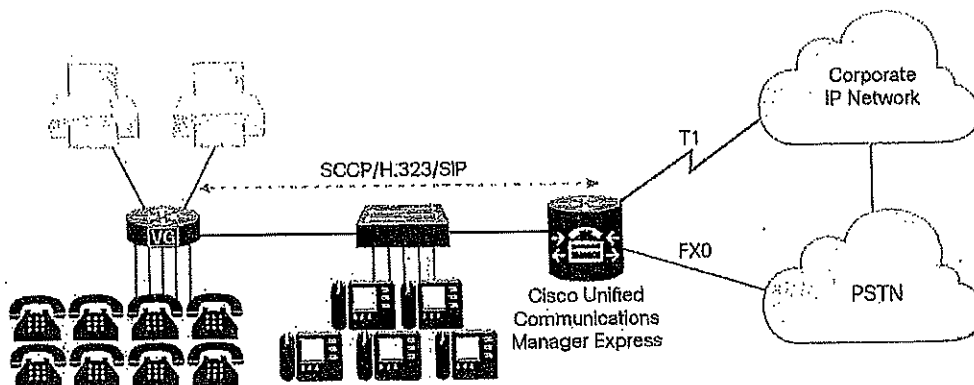


Figure 3.
VG400 Integration with Cisco Unified Communications Manager Express

Analog Phone Connectivity

The Cisco VG400 is ideal for analog phone deployments ranging from centralized to sparsely concentrated or distributed topologies. It provides high availability at locations with Media Gateway Control Protocol (MGCP) fallback, with ease of manageability using Cisco IOS XE Software monitoring features. It offers many supplementary analog calling features depending on the call control and signaling type used. Table 1 lists the supplementary analog calling features available.

Table 1. Supplementary Analog Features

	Skinnny Client Control Protocol (SCCP) features with Cisco Unified Communications Manager	SCCP features with Cisco Unified Communications Manager Express	Session Initiation Protocol (SIP) features with Cisco Unified Communications Manager
Basic call	X	X	X
Call forward all	X	X	
Call forward busy	X	X	
Call forward cancel	X	X	
Call forward no answer	X	X	
Call hold or resume	X	X	X
Call pickup group	X	X	
Call pickup local	X	X	
Call transfer blind	X	X	
Call transfer consultative	X	X	X
Call waiting	X	X	X
Caller ID	X	X	X

	Skinnny Client Control Protocol (SCCP) features with Cisco Unified Communications Manager	SCCP features with Cisco Unified Communications Manager Express	Session Initiation Protocol (SIP) features with Cisco Unified Communications Manager
Caller ID on call waiting	X	X	X
Malicious caller ID	X		
Conference call	Up to 3 parties	Up to 3 parties	
Impromptu conference call	Up to 3 parties	Up to 3 parties	
Meet-me conference call	X	X	
Directed call park		X	
Directed call pickup		X	
Directed call pickup of ringing extension		X	
Redial	X	X	
Speed dial	X	X	
Call toggle	X	X	X
Music on hold (MoH)	X		
Shared-line support*	X		
Shared-line privacy	X		
Precedence and preemption	X		
Call back on busy	X		
DC voltage Visible Message Waiting Indication (VMWI)	X		

*Simultaneous ringing, hold, and resume across analog and IP phones.

The Cisco VG400 supports SCCP Feature Access Codes (FACs) in conjunction with Cisco Unified Communications Manager and Cisco Unified Communications Manager Express. Refer to Cisco Unified Communications Manager and Cisco Unified Communications Manager Express documentation for details.

Fax and Modem Connectivity

The Cisco VG400 supports fax machines and modems. When connected to fax machines, the VG400 supports T.38 Fax Relay and Fax Pass-Through. T.38 Fax Relay technologies allow transfer of faxes across the network with high reliability using less bandwidth than a voice call. All modems can be connected to the VG400 and will be transferred over the network using modem pass-through.

Protocols supported

- SCCP
- H.323V4
- MGCP
- SIP
- Real-Time Transport Protocol (RTP)
- Secure Real-Time Transport Protocol (SRTP)
- Trivial File Transfer Protocol (TFTP)
- HTTP server
- SNMP
- Telnet
- Dynamic Host Configuration Protocol (DHCP)
- DNS
- Call survivability – MGCP failover to an H.323 connection to the SRST router
- T.38 Fax Relay and Fax Pass-Through
- V.150.1 MER Modem Relay, GW Controlled Modem Relay, and Modem Pass-Through
- Support G.711 and G.729a
- RADIUS and TACACS+ for Telnet and authorization

VG400 Models

The Cisco VG400 has a fixed port configuration with flexibility to configure FXS and FXO ports inside the same chassis.

The VG400 is available in the form factors depicted in Table 2.

Table 2. Form Factors

Model	Picture
VG400-6FXS/6FXO 6 FXS and 6 FXO	
VG400-8FXS 8 FXS	
VG400-4FXS/4FXO 4 FXS and 4 FXO	
VG400-2FXS/2FXO 2 FXS and 2 FXO	

The VG400 improves upon the previous generation of Cisco VG202XM and VG204XM Analog Voice Gateways. These improvements include:

- **On-board Digital Signal Processor (DSP):** The FXO and FXS in VG400 contain an onboard DSP and don't require the VG400 to have a dedicated Packet Voice DSP Module (PVDM) on the motherboard. The DSP on the voice module is necessary for the voice features. It also provides for echo cancellation of up to 128-ms echo-tail length for demanding network conditions.
- **FXS-E (extended loops) support:** FXS ports on the VG400 support FXS-E with the following details:
 - Higher loop current (35 mA) to accommodate specialty phones
 - Longer loop length for loops with 26 AWG wire, up to 11,000 feet (3400 meters)
 - Higher ringing voltage (65 Vrms, no load)
- **FXO failover bypass ports:** A failover bypass port, also called a failover trunk bypass, provides a way to use designated analog phone ports to make phone calls through the PSTN during a power outage.

Table 3 summarizes the supported FXO failover bypass and FXS-E-enabled ports in the VG400 models.

Table 3. Feature and Port Comparison

Part number	Number of FXS ports	Number of FXO ports	FXO failover bypass ports	FXS-E-enabled ports
VG400-2FXS/2FXO	2	2	2	2
VG400-4FXS/4FXO	4	4	4	4
VG400-6FXS/6FXO	6	6	6	6
VG400-8FXS	8	—	—	8

Software Compatibility

The Cisco VG400 does not natively support Cisco Unified Border Element (CUBE), Cisco Unified Communications Manager Express, or Cisco Unified Survivable Remote Site Telephony (SRST). Additionally, it does not support DSP farm capability. These functions are available only in the Cisco 4000 Series Integrated Services Routers. Table 4 lists the software versions compatible with the VG400.

Table 4. Software Compatibility

Product category	Compatible versions
Cisco IOS XE compatibility	16.10.1 or later
Cisco Unified Communications Manager	12.0.1SU2 or later
Cisco Unified Communications Manager Express	All versions compatible with Cisco IOS XE 16.10.1 or later
Third-party call control	IP-based trunk; SIP and H.323

Technical Specifications

Table 5 lists the technical specifications for the Cisco VG400's FXS and FXO ports. Table 6 gives the environmental specifications for the VG400. Table 7 lists the regulatory standards compliance.

Table 5. Technical Specifications for FXS and FXO Ports

Feature	VG400-2FXS/2FXO	VG400-4FXS/4FXO	VG400-6FXS/6FXO	VG400-8FXS
Tip and ring interfaces for each FXS port (SLIC)				
Interface	FXS/FXO (RJ-11)	FXS/FXO (RJ-11)	FXS/FXO (RJ-11)	FXS/FXO (RJ-11)
	RJ-11 ports 0 to 1: FXS	RJ-11 ports 0 to 3: FXS	RJ-11 ports 0 to 5: FXS	RJ-11 ports 0 to 7: FXS
	RJ-11 ports 2 to 3: FXO	RJ-11 ports 4 to 7: FXO	RJ-11 ports 6 to 11: FXO	

Feature	VG400-2FXS/2FXO	VG400-4FXS/4FXO	VG400-6FXS/6FXO	VG400-8FXS
Address signaling formats	In-band dual-tone multifrequency (DTMF) Out-of-band pulse (8 to 12 pps)	In-band DTMF Out-of-band pulse (8 to 12 pps)	In-band DTMF Out-of-band pulse (8- to 2 pps)	In-band DTMF Out-of-band pulse (8 to 12 pps)
FXS signaling formats	FXS loop-start, ground-start, and direct inward dial (DID) signaling	FXS loop-start, ground-start, and DID signaling	FXS loop-start, ground-start, and DID signaling	FXS loop-start, ground-start, and DID signaling
FXO signaling formats	FXO loop start, ground start	FXO loop start, ground start	FXO loop start, ground start	N/A
FXS loop resistance	- Up to 600 ohms (including phone or terminal equipment) for short-loop-length port - Up to 1400 ohms (including phone and terminal equipment) for long-loop-length port			
DID loop resistance	Up to 1800 ohms (including terminal equipment)			
On-hook voltage	-44V			
Off-hook loop current	25 mA (maximum) for short-loop-length port 35 mA (maximum) for long-loop-length port			
Ring tone	Configurable for different country requirements			
Ring voltage	54 Vrms into 5 Ringer Equivalence Numbers (RENs) at zero-loop-length port (balanced) (short-loop-length port) 65 Vrms into 2 RENs at zero-loop-length port (balanced) (long-loop-length port)			
Ring frequency	20, 25, 30, and 50 Hz			
REN loading	5 RENs per port (short-loop-length port) 2 RENs per port (long-loop-length port)			
RJ-11 FXS port terminating impedance option	600c, 600r, 900c, 900r, complex1, complex2, complex3, complex4, complex5, and complex6			
Disconnect supervision	Power denial (calling party control and far-end disconnect)			
Caller ID	- On-hook transmission of Frequency-Shift-Keying (FSK) data - Support for DTMF caller ID			
FXS loop length	- Short-loop-length port: 3000 ft (900 m) with 26 AWG, 5500 ft (1700 m) with 24 AWG - Long-loop-length port: 11,000 ft (3400 m) with 26 AWG, 18,000 ft (5500 m) with 24 AWG			
Ring waveform	Sine wave if no DC offset			
VMWI	- FXS ports support FSK VMWI - FXS ports on the VG400 support both FSK and DC voltage VMWI. They default to FSK. (DC voltage VMWI is supported only with the STCAPP protocol.)			
Cables	Category 3 and Category 5			

Table 6. Environmental Specifications

Environment	VG400-2FXS/2FXO	VG400-4FXS/4FXO	VG400-6FXS/6FXO	VG400-8FXS
-------------	-----------------	-----------------	-----------------	------------

Environment

Operating temperature	• 32° to 104°F (0° to 40°C)			
Nonoperating temperature	• -40° to 158°F (-40° to 70°C)			
AC Voltage	• 100 to 240 VAC auto ranging			
AC Current	• 1.5 to 0.6A			
AC Input frequency	• 50-60 Hz			
Power	63W	67W	72W	55W
Weight	6.75 lb (3.06 kg)			
Dimensions (H x W x D)	1.72 x 12.7 x 10 in. (43.7 x 322.6 x 254 mm)			

Table 7. Regulatory Standards Compliance

Specification	Description
Safety	• UL 60950-1 • CAN/CSA C22.2 No. 60950-1 • EN 60950-1 • AS/NZS 60950-1 • IEC 60950-1
Telecom	• TIA/EIA/IS-968 • CS-03 • TBR21 (FXO) • ES 201 970 (FXS) • S002, S003 • Homologation requirements vary by country and interface type. For specific country information, refer to the online approvals database at: https://www.ciscofax.com/.
EMC	• 47 CFR, Part 15 • CES-003 Issue 4 • EN55022 Class A/B • CISPR22 Class A/B • AS/NZS 3548 Class A • VCCI V-3 • CNS 13438 • EN 300-386
Immunity	• EN 55024, CISPR 24 • EN50082-1 • EN 61000-6-1 • EN300-386

Table 8 gives the Cisco VG400 technical specifications.

Table 8. Technical Specifications

Category	
System	VG400
Processor	High-performance multicore processors
Memory DRAM	4 GB DDR3 SDRAM. Fixed on board
External USB 2.0 slots (type A)	1
Ethernet	Up to two 10/100/1000 Ethernet LAN ports
Power	
AC input current (max)	Need Data
External power supply dimensions	37x73 x152 mm

Homologation

The VG400 is approved for the countries listed in Table 9 for off-premises (FXO) and on-premises (FXS) connections. Approval for other countries is in progress. Refer to the Cisco Telecom Approvals Website for approval progress for other countries: https://tools.cisco.com/cse/prdapp/jsp/externalsearch.do?action=externalsearch&page=EXTERNAL_SEARCH.

Table 9. Telecom Approvals

VG400-2FXS/2FXO	VG400-4FXS/4FXO	VG400-6FXS/6FXO	VG400-8FXS
United States	United States	United States	United States
Canada	Canada	Canada	Canada
CE countries ^a	Canada	Canada	Canada
Australia	Australia	Australia	Australia
Japan	Japan	Japan	Japan

^a The CE mark is recognized in the following countries: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Gibraltar, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxemburg, Malta, Monaco, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

Ordering Information

To order this product, use the information provided in Table 10.

Table 10. Ordering information

Product number	Description
VG400-2FXS/2FXO	Cisco VG400 Analog Voice Gateway with 2 FXS and 2 FXO
VG400-4FXS/4FXO	Cisco VG400 Analog Voice Gateway with 4 FXS and 4 FXO
VG400-6FXS/6FXO	Cisco VG400 Analog Voice Gateway with 6 FXS and 6 FXO
VG400-8FXS	Cisco VG400 Analog Voice Gateway with 8 FXS

Services and Support

Using the Cisco Lifecycle Services approach, Cisco and our partners offer a broad portfolio of end-to-end services. These services are based on proven methodologies for deploying, operating, and optimizing IP communications solutions. Initial planning and design services, for example, can help you meet aggressive deployment schedules and minimize network disruption during implementation. Operate services reduce the risk of communications downtime with expert technical support. Optimize services enhance solution performance for operational excellence. Cisco and our partners offer a system-level service and support approach that can help you create and maintain a resilient, converged network that meets your business needs.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more.](#)

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CONTRACT AWARD
RFP-38 Rev. 11/18/16
Prev. Rev. 3/12/14

Susanne Hawkins
Contract Specialist

860-713-5064
Telephone Number

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

PROCUREMENT DIVISION
450 Columbus Boulevard, Hartford, CT 06103

CONTRACT AWARD NO.:

18PSX0202

Contract Award Date:

11 April 2019

RFP Due Date:

25 October 2018

CONTRACT AWARD

IMPORTANT: THIS IS NOT A PURCHASE ORDER. DO NOT PRODUCE OR SHIP WITHOUT AN AGENCY PURCHASE ORDER.

DESCRIPTION: Cisco Products and Services

FOR:

Department of Administrative Services, All Using State
Agencies, Political Subdivisions, and Not-for-Profit
Organizations

TERM OF CONTRACT:

Original Contract Term: April 11, 2019 through April 10, 2024

AGENCY REQUISITION NUMBER: 000005407

IN STATE (NON-SB) CONTRACT VALUE	DAS CERTIFIED SMALL BUSINESS CONTRACT VALUE	OUT OF STATE CONTRACT VALUE	TOTAL CONTRACT AWARD VALUE
	\$4,000,000.00 Estimate	\$4,000,000.00 Estimate	\$8,000,000.00 Estimate

NOTICE TO CONTRACTORS: This notice is not an order to ship. Purchase Orders against contracts will be furnished by the using agency or agencies on whose behalf the contract is made. INVOICE SHALL BE RENDERED DIRECT TO THE ORDERING AGENCY.

NOTE: Dollar amounts listed next to each contractor are possible award amounts, however, they do not reflect any expected purchase amounts (actual or implied). They are for CHRO use only.

NOTICE TO AGENCIES: A complete explanatory report shall be furnished promptly to the Procurement Manager concerning items delivered and/or services rendered on orders placed against awards listed herein which are found not to comply with the specifications or which are otherwise unsatisfactory from the agency's viewpoint, as well as failure of the contractor to deliver within a reasonable period of time specified. Please issue orders and process invoices promptly.

CASH DISCOUNTS: Cash discounts, if any, shall be given SPECIAL ATTENTION, but such cash discount shall not be taken unless payment is made within the discount period.

PRICE BASIS: Unless otherwise noted, prices include delivery and transportation charges fully prepaid f.o.b. agency. No extra charge is to be made for packing or packages.

CONTRACTOR INFORMATION:

REFER TO THE CONTRACT ON THE DAS PROCUREMENT WEB PAGE FOR THE MOST CURRENT CONTRACTOR INFORMATION. (<http://das.ct.gov/mp1.aspx?page=8>)

Company Name: **ePlus Technology, inc.**

Company Address: **45 Shawmut Road, Suite 100, Canton, MA 02021**

Tel. No.: **(781) 615-1314**

Fax No.: **(781) 615-1401**

Contract Value: **\$4,000,000.00 Est.**

Contact Person: **Steve Low**

Company E-mail Address and/or Company Web Site: **slow@eplus.com**

Remittance Address: Same As Above

Certification Type (SBE, MBE or None): **None**

Agrees to Supply Political SubDivisions: **Yes**

Prompt Payment Terms: **0% 00 Net 45**

CONTRACTOR INFORMATION:

REFER TO THE CONTRACT ON THE DAS PROCUREMENT WEB PAGE FOR THE MOST CURRENT CONTRACTOR INFORMATION. (<http://das.ct.gov/mp1.aspx?page=8>)

Company Name: **Total Communications, Inc.**

Company Address: **333 Burnham Street, East Hartford, CT 06108**

Tel. No.: **(860) 622-4128**

Fax No.:

Contract Value: **\$4,000,000.00 Est.**

Contact Person: **Greg Strouth**

Company E-mail Address and/or Company Web Site: **gregstrouth@totalcomm.com or www.totalcomm.com**

Remittance Address: Same As Above

Certification Type (SBE, MBE or None): **None**

Agrees to Supply Political SubDivisions: **Yes**

Prompt Payment Terms: **0% 00 Net 45**

Contract User Instructions:

- This is a multiple award contract to two Contractors.
- All projects must be quoted by both awarded Contractors and the Department must obtain all required approvals prior to issuing a purchase order.
- The Department must determine the most advantageous Contractor based on specifications, requirements, pricing, and timelines and issue a purchase order(s) accordingly.

APPROVED _____

MARK RAYMOND

Chief Information Officer

(Original Signature on Document in Procurement Files)

SALES AGREEMENT

Seller:	TOWN OF WATERFORD	
Seller's Attorney:	Robert A. Avena, Esquire	Telephone: (860) 650-8008
Seller's Attorney's Address:	Suisman Shapiro, 20 South Anguilla Road, Pawcatuck, CT 06379	
Buyer's Name:	PURE ONE SERVICES	Telephone: (860) 908-4496
Buyer's Address:	10 LIBERTY WAY A-5 NORWICH CT 06357 EMAIL: MFIY@PUREONESERVICES.COM	
Property Address:	1 Hamel Court, Waterford, CT 06385	
Deposit (Paid by Buyer to Seller in form of a certified or bank check)	Eight Thousand and 00/100 Dollars (\$8,000.00)	

A. In consideration of:

- The deposit paid by the Buyer to the Seller; and
- On or before thirty (30) days after the approval of the sale, the Buyer paying the Seller the additional amount of: ONE HUNDRED FIFTEEN THOUSAND AND FIVE HUNDRED (\$15,500) in cash or by certified check, and
- The Buyer agreeing to pay all adjustments for real estate taxes, water and sewer charges and assessments due the Town of Waterford as of the day of closing;
- The Buyer agreeing that at the closing, he or she shall provide the Seller's Attorney with a certified or bank check, payable to Suisman Shapiro, Trustee, for the balance of the purchase price;
- The Buyer agreeing that within thirty (30) days of the closing, he or she will record the Quit Claim Deed;
- The Buyer and Seller agreeing that:
 - The sale is to be free and clear of all liens and subject to building, building line and zoning regulations of the Town of Waterford and any and all provisions of any public or private law; and
 - The sale is subject to the Seller obtaining the approval of the Waterford Board of Selectmen, subject to building, building line and zoning regulations of the Town of Waterford and any and all provisions of any public or private law; and agreeing that if the approval is not obtained, this Agreement shall be null and void and the deposit will be returned to the Buyer; and
 - The Seller has advised the Buyer the residential structure on the property is currently uninhabitable due to an extensive fire and is subject to Zoning, Building and Fire Code permits before occupancy will be possible. Extensive renovations and/or tear down of the existing home may be necessary; and
 - The Seller makes no further representations regarding the condition of the premises or the quality of title except as otherwise stated in this Agreement and that the Buyer is purchasing the premises in its "AS IS" condition; and
 - The title will be transferred with thirty (30) days from
 - The date of approval of the sale by the Waterford Board of Selectmen, or
 - The date of the final determination of any appeal from such approval, and
 - If the Buyer fails to make any of the payments required by this Agreement, the Buyer may lose all claims to the property and all money paid under this Agreement.

B. The Seller will, within thirty (30) days of:

- The sale being approved by the Waterford Board of Selectmen, or
- The date of the final determination of any appeal from such approval,

give to the Buyer a good and sufficient Quit Claim Deed containing the usual covenants in such deeds, for the property described above and in Attachment A.

Signed (Seller's Attorney):	Date: 7/29/23
Signed (Buyer):	Date: 7/29/23

MATTHEW FLEISHER
President
PURE ONE SERVICES

ATTACHMENT A

A certain tract of land with the buildings thereon situated on the west side of Miner Avenue in the Town of Waterford in said County and State, being known and designated as Lot No. 4 on a Plan entitled "Subdivision of Land on Miner Avenue, Town of Waterford, Conn., Belonging to Clodemere C. Bessie R. Hamel, Scale 1" = 30', Aug. 1951, Ernest L. Doshefy, Surveyor, New London, Conn.", which Map is on file in the Town Clerk's Office of the Town of Waterford and to which reference is hereby had, said lot being more particularly bounded and described as follows:

Beginning at a point in the westerly line of Miner Avenue, marked by a concrete bound, which bound is located at the intersection of the northeast corner of the tract herein conveyed and the southeast corner of land of George W. Skipworth; thence running westerly, along land of said Skipworth, one hundred (100) feet to Lot No. 3, as shown on said Plan; thence running southerly, along the easterly line of Lot No. 3, fifty (50) feet to Hamel Court, so-called; thence running easterly, along the line of Hamel Court, one hundred (100) feet to the westerly line of Miner Avenue; thence running northerly, along the westerly line of Miner Avenue, fifty (50) feet to the point and place of beginning.

Being the same premises conveyed to the Town of Waterford by Committee Deed from Joane M. Olawale, Committee of Sale for the Town of Waterford vs. Elaine Scalia a/k/a Eileen Scalia, et al, Docket No. KNL-CV-11-6011583-S dated October 27, 2022 and recorded on January 23, 2023 in Volume 1808, Page 97 of the Waterford Land Records.