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**CITY OF MERCED,
CALIFORNIA**

**PROPOSAL FOR PURCHASE
OF**

EZ LINER

MODEL TS-AL150

PAINT STRIPING BODY

USING

SOURCEWELL

CONTRACT NO. 080521-EZL

ROADWAY MAINTENANCE EQUIPMENT

March 29, 2022

CITY OF MERCED, CALIFORNIA
AIRLESS TRUCK MOUNTED STRIPING MACHINE
PROPOSAL FOR
EZ LINER MODEL TS-AL150
March 29, 2022

TABLE OF CONTENTS

- **Verification of City of Merced's Sourcwell Member ID #2325**
- **Verification of EZ Liner's Sourcwell Contract #080521-EZL**
- **Proposal Cover Letter**
- **Sourcwell Price Sheet**
- **Chassis Proposal**
- **Sourcwell Published Options Price Sheet for EZ Liner
Model TS-AL110 Product Code #18C**
- **Sourcwell Contract Specifications for EZ Liner Model TS-AL110
Base Unit Product Code #18C dated 08/05/2021**
- **City of Merced's Specifications dated 03/03/2022/Revised 03/29/2022**
- **Proposed Component Layout Drawing**
- **Technical Information**



City of Merced
678 W 18th St
Merced, CA 95340-4700

ID# 2325

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EZ Liner

Roadway Maintenance Equipment

#080521-EZL

Maturity Date: 10/11/2025

Products & Services

Products & Services

Sourcewell contract 080521-EZL gives access to the following types of goods and services:

- Paint striping trucks
- Mid-size paint machinery
- Walk-behind paint machines
- RPM & tape applicator trucks
- Traffic coatings
- Grinding & grooving equipment
- Line removal equipment
- Thermoplastic marking trucks
- Plural component marking truck
- Walk-behind thermoplastic
- Walk-behind plural component
- Walk-behind grinders

Additional information can be found on the vendor-provided, nongovernment websites at: ezliner.com

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March 29, 2022

City of Merced-(Sourcewell Member ID #2325)
Attn: Mr. Juan Olmos
1776 Grogan Avenue
Merced, CA 95341

Re: Sourcewell Contract No. 052417-EZL Purchase of EZ Liner
Model TS-AL150 Truck Mounted Striping Machine

Mr. Olmos,

Thank you for the opportunity to submit a proposal to the City of Merced for the purchase of an EZ Liner Model TS-AL150 paint striping body mounted on an Isuzu NPR HD Gas chassis. The proposal on the paint striping body is based upon EZ Liner's Sourcewell Contract No. 080521-EZL.

As part of this proposal the following information is being provided:

1. Proposal Price Sheet for the paint striping body with chassis.
2. A copy of EZ Liner's "Sourcewell Contract No. 080521-EZL-Specifications for EZ Liner Model TS-AL110 Base Unit Product Code #18C dated 08/05/2021.
3. A copy of City of Merced's Specifications for an Airless Truck Mounted Striping Machine dated 03/03/2022/Revised 03/29/2022.
4. A comparison document comparing EZ Liner's Sourcewell specifications and the City's specifications summarizing the changes.
5. Technical literature packet outlining what EZ Liner is proposing to provide.

Pricing does not include any taxes or municipal or state fees. Pricing is good for 60 days, after which it will have to be reviewed. The City's new paint truck will be delivered via lowboy trailer. The City will be responsible for driving their new paint truck off the trailer. The anticipated completion date on the City's Model TS-AL150 paint truck is 240 days ARO or 90 days after the receipt of the chassis, pending availability of the chassis and other supply chain disruptions and pending any previously received orders that have filled available build slots.

If you have questions on EZ Liner's proposal, please give Mike Petersen, Regional Sales Manager, a call at 712-360-2108. EZ Liner looks forward to working with the City of Merced by providing quality paint striping equipment supported by superior customer service!

Respectfully submitted,

EZ LINER


Norm Scholten

Design & Bid Project Manager I

March 29, 2022

City of Merced-(Sourcewell Member ID #2325)
Attn: Mr. Juan Olmos
1776 Grogan Avenue
Merced, CA 95341

Re: Sourcewell Contract No. 080521-EZL Purchase of EZ Liner
Model TS-AL150 Truck Mounted Striping Machine-**Price Sheet**

<u>Item</u>	<u>Description</u>	<u>List Price</u>
18C	TS-AL110 Base Unit	\$145,161.00
18C-02-01	Vacuum Bead Load System using Shop Air	2,178.34
18C-07-01	Skip-Line Digital Speedometer	1,631.44
Subtotal		\$148,970.78
7% Discount		(\$10,427.96)

Net Amount Published Pricing **\$138,542.82**

Chassis

2023 Model Year Isuzu NPR HD Gas **\$40,781.64**
Handling Charge 3,500.00

Sourced Goods

Operator Seats w/Toolboxes \$877.00 x 2 \$ 1,754.00
(2) Drum Mount Agitator Assemblies, Each \$1,263.00 x 2 2,526.00
Black Paint System-40-gal. Tank, 8.6 GPM Pump & Black Gun w/Gun Raiser 25,090.00
Strobe System California Title 13 Compliant 2,269.00
Two-Day Training Session 6,508.00
Delivery 8,000.00

Total for Sourced Goods **\$46,147.00**

TOTAL AMOUNT **\$228,971.46**

Respectfully submitted,

EZ LINER



Norm Scholten

Truck Project Design & Bid Manager I

ISUZU
TRUCK

ISUZU
TRUCK

ISTATE ISUZU TRUCK SIOUX FALLS

Nicholas Maltaverne | 605-310-5734 | nick.maltaverne@istatetruck.com

2023 NPR HD GAS 132" WB STOCK



Current report content is based on data as of 2022-01-04 07:24:29. Any performance-related calculations are offered solely as guidelines. Actual vehicle performance will depend on your operating conditions. All information, specifications and pricing in this application are based on the latest information available. Isuzu Commercial Truck of America, Inc. reserves the right to discontinue or change, at any time, without prior notice, the pricing, specifications, options, materials, equipment, design and models.

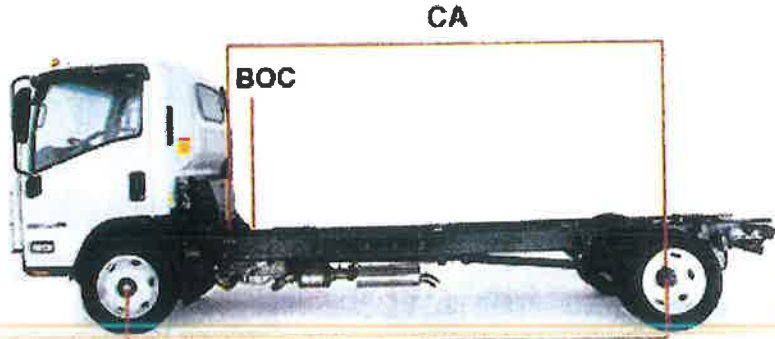


ISTATE ISUZU TRUCK SIOUX FALLS

Nicholas Maltaverne | 605-310-5734 | nick.maltaverne@istatetruck.com

2023 NPR HD GAS 132" WB STOCK (2023 NPR-HD Gas Cab Chassis, 1F2 132.5"WB, 110"CA, 14,500 GVWR. White, Standard model specifications with power windows and door locks

Weight Distribution



Driver/Passenger Weight	350.0 lbs.
Wheelbase (WB)	132.5 inches
Cab-to-Axle (CA)	110 inches
Body Length	
Body Weight	
Back of Cab (BOC)	7.7 inches

** You must fill in body length and weight to enable body and payload weight calculations.

		WB		Weight (lbs.)	Front	Rear	Total
Front Wt.		3,897.00 lbs.	65%	Chassis	3,528.00	2,105.00	5,633.00
Rear Wt.		2,105.00 lbs.	35%	Chassis Equipment	19.00	0.00	19.00
GVWR		14,500.00 lbs.		Subtotal	3,547.00	2,105.00	5,652.00
GVW		6,002.00 lbs.		Driver/Passengers	350.00	0.00	350.00
Remaining Payload Weight		8,498.00 lbs.		Body/Body Equipment	0.00	0.00	0.00
				Payload	0.00	0.00	0.00
				Total	3,897.00	2,105.00	6,002.00
				GAWR/GVWR	6,630.00	11,020.00	14,500.00
				GCWR			20,500.00

Chassis Equipment:

Code	Item	Center of Gravity	Front Axle	Rear Axle	Total
04	White, Standard model specifications with power windows and door locks		0.00 lbs.	0.00 lbs.	0.00 lbs.
IF6	Fire Extinguisher and Triangle Kit mounted in rear organizer on standard cab and under rear seat on crew cab		19.00 lbs.	0.00 lbs.	19.00 lbs.

Driver/Passengers:

	Center of Gravity	Front Axle	Rear Axle	Total
Driver	front axle	350.00 lbs.	0.00 lbs.	350.0 lbs.

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2023 NPR HD GAS 132" WB STOCK (2023 NPR-HD Gas Cab Chassis, 1F2 132.5"WB, 110"CA, 14,500 GVWR. White, Standard model specifications with power windows and door locks

Selected Model and Options

Model	Code	Description	Weight
Model	1F2 04	NPR-HD Gas Cab Chassis 132.5"WB, 110"CA White, Standard model specifications with power windows and door locks	
Vehicle Application	RQ2	Truck Application	0.0 lbs.
Tires	I5H	LRR (low rolling resistance)	0.0 lbs.
Engine	L8T	GMPT 6.6L (400 CID) V8 gasoline engine; 350 HP at 4500 RPM; 425 lb-ft torque at 3800 RPM; precise fuel control direct injection technology; electronic throttle control; overhead valves with variable valve timing; heavy duty cast-iron cylinder block with six-bolt main-bearing cap; cast aluminum cylinder heads; forged steel crankshaft; stainless steel exhaust manifold.	0.0 lbs.
Transmission	MYD	6L90-E Hydra-Matic, 6-speed automatic with lock-up converter and overdrive. Ratios: Gear and Ratios 4.027, 2.364, 1.532, 1.152, 0.0852, 0.667, Rev. 3.064:1	0.0 lbs.
Wheelbase	IA9	132.5 inches, includes ladder type channel frame. Full C section straight frame 33.5 inches wide. Yield strength 44,000 psi; section modulus 7.20 in ³ RBM 316,800 lb./ft./in. per rail. 110"CA	0.0 lbs.
Air Cleaner	KNX	Dry paper single element. Air cleaner canister standard with air restriction gauge.	0.0 lbs.
Alternator	KW7	170 Amp. output with integral regulator.	0.0 lbs.
Battery	IL3	Single Delco 12-V maintenance free 750 CCA frame mounted battery box	0.0 lbs.
Exhaust	I41	Single horizontal aluminized steel with catalytic converter and oxygen sensor devices.	0.0 lbs.
Front Axle	ID2	"I"-beam rated at 6,830 lbs. Includes integral hydraulic power steering. Ratio 18.8-20.9:1.	0.0 lbs.
Front Suspension	ID4	6,830 lb. capacity. Semi-elliptical tapered leaf springs. Includes shock absorbers and stabilizer bar.	0.0 lbs.
Front Wheels	IB9	19.5" x 6", 6-hole disc, painted white	0.0 lbs.
Front Tires			

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2023 NPR HD GAS 132" WB STOCK (2023 NPR-HD Gas Cab Chassis, 1F2 132.5"WB, 110"CA, 14,500 GVWR. White, Standard model specifications with power windows and door locks

Selected Model and Options

	Code	Description	Weight
Rear Suspension	I8B	225/70R19.5G (14 ply) tubeless Radial, all season tread	0.0 lbs.
Rear Axle	I8J	12,900 lbs. Capacity semi elliptical; main and auxiliary multi- leaf spring. Includes shock absorbers.	0.0 lbs.
Ratio	ID3	Single-speed, 14,550 lb. capacity with oil lubricated rear wheel bearings.	0.0 lbs.
Rear Wheels	092	4.300:1	0.0 lbs.
Rear Tires	IC1	19.5" x 6", 6-hole disc, painted white	0.0 lbs.
Fuel Tank	I9B	225/70R19.5G (14 ply) tubeless Radial, all season tread.	0.0 lbs.
Seat	A17	38.6 gal. rectangular fuel tank. Mounted between frame rail with electric type fuel pump (mounted in tank). Through the rail fuel fill.	0.0 lbs.
Brakes	AQB	Driver seat is reclining high back. Two single occupant fold down seats with tray backs.	0.0 lbs.
Air Conditioning	IE1	Vacuum + Power Assist; hydraulic 4-wheel disc brakes with 4-channel ABS. Mechanical, transmission mounted parking brake. Non-asbestos semi metallic linings are standard.	0.0 lbs.
Power Windows & Door Locks	C60	Air conditioner	0.0 lbs.
Model Option	IL0	Yes	0.0 lbs.
Additional Options	04	White, Standard model specifications with power windows and door locks	0.0 lbs.
Accessories	IF6	Fire Extinguisher and Triangle Kit mounted in rear organizer on standard cab and under rear seat on crew cab	19.0 lbs.
	IX2	Rear body dome lamp switch	0.1 lbs.
	8RP	AM/FM/CD radio with Aux input/USB port and Bluetooth RPO	0.0 lbs.

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2023 NPR HD GAS 132" WB STOCK (2023 NPR-HD Gas Cab Chassis, 1F2 132.5"WB, 110"CA, 14,500 GVWR. White, Standard model specifications with power windows and door locks

Standard Equipment Summary

Code	Description
Vehicle Application	
RQ2	Truck Application
Tires	
I5H	LRR (low rolling resistance)
Engine	
L8T	GMPT 6.6L (400 CID) V8 gasoline engine; 350 HP at 4500 RPM; 425 lb-ft torque at 3800 RPM; precise fuel control direct injection technology; electronic throttle control; overhead valves with variable valve timing; heavy duty cast-iron cylinder block with six-bolt main-bearing cap; cast aluminum cylinder heads; forged steel crankshaft; stainless steel exhaust manifold.
Transmission	
MYD	6L90-E Hydra-Matic, 6-speed automatic with lock-up converter and overdrive. Ratios: Gear and Ratios 4.027, 2.364, 1.532, 1.152, 0.0852, 0.667, Rev. 3.064:1
Wheelbase	
IA9	132.5 inches, includes ladder type channel frame. Full C section straight frame 33.5 inches wide. Yield strength 44,000 psi; section modulus 7.20 in ³ RBM 316,800 lb./ft./in. per rail. 110"CA
Air Cleaner	
KNX	Dry paper single element. Air cleaner canister standard with air restriction gauge.
Alternator	
KW7	170 Amp. output with integral regulator.
Battery	
IL3	Single Delco 12-V maintenance free 750 CCA frame mounted battery box
Exhaust	
I41	Single horizontal aluminized steel with catalytic converter and oxygen sensor devices.
Front Axle	
ID2	"I"-beam rated at 6,830 lbs. Includes integral hydraulic power steering. Ratio 18.8-20.9:1.
Front Suspension	
ID4	6,830 lb. capacity. Semi-elliptical tapered leaf springs. Includes shock absorbers and stabilizer bar.
Front Wheels	
IB9	19.5" x 6", 6-hole disc, painted white
Front Tires	
I8B	225/70R19.5G (14 ply) tubeless Radial, all season tread
Rear Suspension	
I8J	12,900 lbs. Capacity semi elliptical; main and auxiliary multi- leaf spring. Includes shock absorbers.
Rear Axle	
ID3	Single-speed, 14,550 lb. capacity with oil lubricated rear wheel bearings.
Ratio	
092	4.300:1
Rear Wheels	
IC1	19.5" x 6", 6-hole disc, painted white
Rear Tires	
I9B	225/70R19.5G (14 ply) tubeless Radial, all season tread.
Fuel Tank	
A17	38.6 gal. rectangular fuel tank. Mounted between frame rail with electric type fuel pump (mounted in tank). Through the rail fuel fill.
Seat	
AQB	Driver seat is reclining high back. Two single occupant fold down seats with tray backs.

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2023 NPR HD GAS 132" WB STOCK (2023 NPR-HD Gas Cab Chassis, 1F2 132.5"WB, 110"CA, 14,500 GVWR. White, Standard model specifications with power windows and door locks

Standard Equipment Summary

Code	Description
Brakes	
IE1	Vacuum + Power Assist; hydraulic 4-wheel disc brakes with 4-channel ABS. Mechanical, transmission mounted parking brake. Non-asbestos semi metallic linings are standard.
Air Conditioning	
C60	Air conditioner
Power Windows & Door Locks	
IL0	Yes
Model Option	
04	White, Standard model specifications with power windows and door locks
Accessories	
1X2	Rear body dome lamp switch
8RP	AM/FM/CD radio with Aux input/USB port and Bluetooth RPO

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2023 NPR HD GAS 132" WB STOCK (2023 NPR-HD Gas Cab Chassis, 1F2 132.5"WB, 110"CA, 14,500 GVWR. White, Standard model specifications with power windows and door locks

Quote Worksheet

	MSRP
Base Price	\$51,812.00
Destination Charge	\$1,575.00
Ocean Transport Surcharge	\$675.00
DEF Fill Charge	\$0.00
Total Options	\$88.00
Subtotal	\$54,150.00
FUEL	\$30.00
Subtotal Additional Equipment	\$30.00
Subtotal Miscellaneous Equipment	\$0.00
Pre-Tax Subtotal	\$54,180.00
Less Customer Discount	(\$-13,425.00)
Subtotal Discount	(\$-13,425.00)
Taxable Price	\$40,755.00
Sales Tax	0% \$0.00
Tire Weight Tax	\$26.64
Subtotal Taxes	\$26.64
Subtotal Post-Tax Adjustments	\$0.00
Less Post-tax Customer Discount	\$0.00
Subtotal Discount	\$0.00
Total Sales Price	\$40,781.64

Dealer Signature/Date

Customer Signature/Date

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EZ LINER MODEL TS-AL110, Product Code #18C		
PAINT STRIPING BODY ONLY		
Item	Description	List Price
18C	TS-AL110 Base Unit	\$ 145,161.00
18C-01-07	Air Hose Reel w/ 25' Hose	\$ 1,620.32
18C-02-01	Vacuum bead load system using shop air	\$ 2,178.34
18C-03-01	EZ Carriage Control System ILO base	\$ 20,692.95
18C-04-01	Add'l paint & bead line with Graco guns, each	\$ 4,275.47
18C-04-02	Flex gun w/hose reel & 25' HP Hose	\$ 2,558.40
18C-04-03	220 gallon SS tank w/agitators ILO Base	\$ 10,249.19
18C-04-04	120 gallon SS tank w/agitators ILO Base	\$ 7,083.12
18C-04-05	1-1/2" LP SS Diaphragm Pump for paint loading, each	\$ 7,960.40
18C-06-01	25 gallon poly flush tank	\$ 1,794.59
18C-07-01	Skip-Line Inc. digital speedometer	\$ 1,631.44
18C-07-02	Gallon counts, per color	\$ 717.46
18C-07-03	Eight light LED Work Light system	\$ 2,945.87
18C-07-04	1020F-4 Message Board ILO base TAC8 Arrow Stick	\$ 18,417.82
18C-07-05	Camera guidance system	\$ 11,491.72
18C-07-06	Laser guidance system	\$ 9,356.55
18C-07-07	3'x6' Arrowboard ILO base TAC8 Arrow Stick	\$ 3,118.28
18C-08-01	Deduct for Mechanical Line Guide	\$ (4,351.13)
18C-08-02	Aluminum toolbox, each	\$ 1,001.11
18C-10-05	TS-AL110 Base Unit Recommended Spare Parts Kit	\$ 8,827.44
FOB FACTORY. TRAINING AND DELIVERY PRICED SEPARATELY.		
A 7% DISCOUNT ON BASE UNIT AND OPTIONS ITEMS LISTED ON THIS PRICING PAGE		
IS AVAILABLE TO SOURCEWELL MEMBERS.		
EFFECTIVE DATE: OCTOBER 2021.		

SOURCEWELL CONTRACT #080521
SPECIFICATIONS FOR ROADWAY MAINTENANCE EQUIPMENT
EZ LINER MODEL TS-AL110 BASE UNIT

18C
08/05/2021

- 1.0 **Performance specification:** Unit shall be capable of applying 3” to 8” wide retro-reflective lines with spacing between lines from 0” to 6”. Paint applications speeds shall be from 4 MPH to 10 MPH. Application rates of 12 mil to 15 mil wet film thickness paint for standard formulations of traffic paint and 6 to 8 lbs./gal and Type I glass beads. The unit is designed so that it operates in its own lane of traffic and applies centerline, edge lines and lane lines **separately.**

- 2.0 **Equipment platform:** The construction shall be of 3/16” thick smooth aluminum deck plate 88” wide x length as required for components with 4” aluminum long sills, 3” aluminum cross members with integrally formed rub rail. Walking area surfaces of platform shall be covered with anti-slip material. A canopy shall be provided above the operator stations. Deck shall be installed on chassis frame rails using 8” to 10” steel risers that are bolted to the chassis frame rails and long sills. The railings shall be 42” high with mid rail welded to deck with two (2) 32” high fold up steel ladders with a chrome grab handle each side of ladder openings and rear access. At the operator station the railing shall be 32” high with a mid rail. Steel rear bumper with stair step rear access incorporated into the design with right side hand railing. Removable aluminum rear fenders with aluminum guard forward and to the rear shall be provided. LED platform lighting. Two (2) 10# fire extinguishers and two (2) cup holders shall also be provided. The auxiliary engine and air compressor shall remain their original factory colors. The underside of the deck will be painted the same color as the top of the deck. All coatings shall be lead free. The Unit shall be prime coated with a two-component urethane primer system. The topcoat shall be a two-component polyurethane coating. White is the standard factory paint color. Black powder coating shall be used on brackets, gun carriages and line guide.

- 3.0 **Operator seats:** Two (2) Bostrom air ride high back black vinyl covered seats with seat belts and seat tethers and inside armrest. At the top of the railing at each operator station a black vinyl covered padded armrest 3”x18” shall be provided.

- 4.0 **Gun carriages:** Municipal type gun carriage centerline and edge line carriages mounted **in front of or behind** the rear axle. Each carriage shall be supported by a single outrigger tube retractable structural steel slide with UHMWPE bearing material and a single standard gun carriage tire installed in a center swivel. Carriages shall be supported by auto lock brackets in the transport

position and adjustable gun brackets are to be zinc plated. Two (2) paint guns and two (2) bead guns installed on left gun carriage and one (1) paint gun and one (1) bead gun on the right gun carriage.

- 5.0 **Mechanical line guide:** A front mount laterally adjustable line guide with extension 6' to 10' with pneumatic swivel caster and pneumatic lift.
- 6.0 **Paint supply:** A drum storage area shall be provided capable of holding two (2) 55 gal. paint drums securely held in place with a web strap retention system. Paint re-circulation shall be provided. A stand tube shall be supplied for each paint suction hose suction tube.
- 7.0 **High pressure paint pumps:** Two (2) Titan/Speeflo Model 415-315 paint pumps with a combination of leather/UHMWPE packings rated at 8.6 GPM @ 2000 PSI shall be provided. Each pump shall be equipped with an 18 sq. in. high-pressure stainless-steel paint filter with 40 mesh screens, an ASME certified high-pressure stainless-steel surge chamber and check valve.
- 8.0 **Low pressure paint filtration:** Y type strainers shall be installed in the low-pressure plumbing connecting the paint supply tanks to the High-pressure paint pumps. A removable stainless-steel screen shall include approximately 1/8" diameter holes.
- 9.0 **Paint guns:** Three (3) Graco Model 238-377 paint guns with heavy duty reversible spray tips shall be provided. Full length 3/8" ID nylon lined high pressure paint hoses with 3/8" NPT plated female swivel fitting on both ends shall be provided from the surge chambers to the paint guns.
- 10.0 **Bead supply:** A 750# bead tank with three (3) 2" sight glasses shall be provided.
- 11.0 **Bead guns:** Three (3) Graco Model 238-338 bead guns shall be provided. Full length 3/4" ID clear poly-spring bead hoses to be provided from the bead manifold under the bead tank to the bead guns.
- 12.0 **Air supply:** Air supply shall be supplied by a belt driven 30 cfm air compressor. The system shall include a 12-gallon air tank and LaMan 107F extractor/ dryer with auto drain. Two (2) air take off quick disconnect ports shall be provided- one at each gun carriage. A preset regulator shall be provided for carriage down pressure. A liquid filled system air pressure gauge shall be provided at the operators' station along with liquid filled gauges and air pressure regulators for bead tank pressure.
- 13.0 **Auxiliary engine:** A Honda Model GX690 23 hp gas engine shall be provided with controls at the engine. A separate CARB compliant 7-gallon gas tank and battery shall be provided for the Honda gas engine.

- 14.0 **Hydraulic power:** A 12-gallon hydraulic oil reservoir with sight level/temperature gauge, suction screen and return line filter with condition indicator shall be provided along with a belt driven pressure compensated piston type hydraulic pump. Gun carriages shall be positioned using a power steering system with tilt steering wheel with spinner knob at each operator position and 5' hydraulic cylinder for each carriage. A hydraulic by-pass shall allow a no-load start for the auxiliary engine.
- 15.0 **Electrical system:** A chassis cab control console shall be provided in the chassis cab containing the driver's controls for the paint striping body. Each circuit shall be color coded wire and shall have circuit protection. The wiring harnesses between the junction blocks to be protected by protective split loom covering. An LED white/red light with self-contained switch installed above each operator position. The electrical junction blocks and main components of the timer system shall be installed in an above deck weatherproof electrical box.
- 16.0 **Skip line control system:** One (1) Skip-Line, Inc. Model SC-12 Skip Timer shall be provided. Each operator position shall be wired to accept the timer, which can be installed at either position. Ground speed signal shall be obtained from a heavy-duty aluminum wrap installed on the chassis driveshaft.
- 17.0 **Intercom system:** A three position David Clark Model U3800 intercom system shall be provided with a dual headset port at the driver's position and a single port at each operator position. The following headsets shall be provided-one (1) Model H3492 single muff and two (2) H3432 dual muff design. Three (3) headset storage hooks shall be provided.
- 18.0 **Safety lighting:** The following Whelen LED amber strobe lights shall be provided-Four (4) Model L41AP 360° Super-LED beacons, one on each front corner of deck or on a chassis cab roof bracket and one on each corner of the platform at the rear of unit. Two (2) Model LINV2A Super-LED 180° mini strobe lights on gun carriages with one installed on outside edge of each gun carriage.
- 19.0 **Electric actuators:** Three (3) electric gun actuators shall be provided to remotely adjust the height of the paint guns. Control switches shall be provided on each respective Model SC-12 Master Control Box to control the height of the paint guns on each respective gun carriage.
- 20.0 **LED Arrow stick:** 47.75" long, 8 lamp Whelen Model TAC8 with controller in chassis cab.
- 21.0 **Drawings & technical literature:** A complete set of drawings shall be submitted. These drawings shall show the deck layout and weight distributions

of the proposed unit. Descriptive literature, technical data and photographs shall be included with proposal.

- 22.0 **Technical support:** Training is not included in the base price but will be priced out on a case-by-case basis as a “sourced good” as part of the agreement with the individual customer. Two (2) consecutive days of training to instruct customer personnel in the operation and maintenance of the unit are recommended. After the completed truck has been received and accepted by the customer, the training will be scheduled. The customer is responsible for providing the paint and glass beads to be used during the training. Two (2) sets of Operation/Maintenance manuals shall be provided for the paint striping body on flash drives. Chassis manuals to be purchased by customer from their chassis vendor.
- 23.0 **Chassis:** Cab and chassis are not included. Specifications for the customer supplied cab and chassis must be approved by EZ Liner Engineering prior to purchase to ensure modification costs will not be incurred.
- 24.0 **Delivery:** The estimated delivery time is 120 days ARC (after receipt of chassis). The completed truck may be driven out for delivery or delivered via lowboy trailer. The production schedule along with the time frame for delivery will be discussed and confirmed at time of order.
- 25.0 **Warranty:** EZ Liner warrants all equipment manufactured by it and bearing its brand names to be free from defects in material and workmanship at the time of sale by EZ Liner or an authorized distributor. EZ Liner will for a period of twelve months from the date of sale, repair or replace any part of the equipment proven defective.

Specifications for An Airless
Truck Mounted Striping Machine
City of Merced, California
03/03/2022/Revised 03.29.2022

- 1.0 **Performance specification:** Unit shall be capable of applying 3” to 8” wide retro-reflective lines with spacing between lines from 0” to 6”. Paint applications speeds shall be from 4 MPH to 10 MPH. Application rates of 12 mil to 15 mil wet film thickness paint for standard formulations of traffic paint and 6 to 8 lbs./gal and Type I glass beads. The Unit shall be capable of painting three colors. The unit is designed so that it operates in its own lane of traffic and applies centerline, edge lines and lane lines separately.

- 2.0 **Equipment platform:** The construction shall be of 3/16” thick smooth aluminum deck plate 88” wide x length as required for components with 4” aluminum long sills, 3” aluminum cross members with integrally formed rub rail. Walking area surfaces of platform shall be covered with anti-slip material. A canopy shall be provided above the operator stations. Deck shall be installed on chassis frame rails using 8” to 10” steel risers that are bolted to the chassis frame rails and long sills. The railings shall be 42” high with mid rail welded to deck with two (2) 32” high fold up steel ladders with a chrome grab handle each side of ladder openings and rear access. At the operator station the railing shall be 32” high with a mid rail. Steel rear bumper with stair step rear access incorporated into the design with right side hand railing. Removable aluminum rear fenders with aluminum guard forward and to the rear shall be provided. LED platform lighting. Two (2) 10# fire extinguishers and two (2) cup holders shall also be provided. The auxiliary engine and air compressor shall remain their original factory colors. The underside of the deck will be painted the same color as the top of the deck. All coatings shall be lead free. The Unit shall be prime coated with a two-component urethane primer system. The topcoat shall be a two-component polyurethane coating. White is the standard factory paint color. Black powder coating shall be used on brackets, gun carriages and line guide.

- 3.0 **Operator seats:** Two (2) Bostrom non-suspension high back black vinyl covered seats with seat belts and seat tethers and inside armrest. At the top of the railing at each operator station a black vinyl covered padded armrest 3”x18” shall be provided. An aluminum toolbox shall be installed under each seat.

- 4.0 **Gun carriages:** Municipal type gun carriage centerline and edge line carriages mounted in front of the rear axle. Each carriage shall be supported by a single outrigger tube retractable structural steel slide with UHMWPE bearing material and a single standard gun carriage tire installed in a center swivel. Carriages shall be supported by auto lock brackets in the transport position and adjustable gun brackets are to be zinc plated. Three (3) paint guns and two (2) bead guns installed on left gun carriage with two paint guns painting yellow paint and one

paint gun painting black paint. One (1) paint gun painting white paint and one (1) bead gun on the right gun carriage.

- 5.0 **Mechanical line guide:** A front mount laterally adjustable line guide with extension 6' to 10' with pneumatic swivel caster and pneumatic lift.
- 6.0 **Paint supply:** A drum storage area shall be provided capable of holding two (2) 55 gal. paint drums securely held in place with a web strap retention system. One drum for yellow paint and one drum for white paint. Paint re-circulation shall be provided. A separate 40-gallon paint tank shall be provided for black paint. Paint re-circulation shall be provided. Three (3) hydraulic powered paint agitators shall be provided with one installed in each paint drum and in black paint tank.
- 7.0 **High pressure paint pumps:** Three (3) Titan/Speeflo Model 415-315 paint pumps with a combination of leather/UHMWPE packings rated at 8.6 GPM @ 2000 PSI shall be provided. One pump provided for yellow, white and black paint. Each pump shall be equipped with an 18 sq. in. high-pressure stainless-steel paint filter with 40 mesh screens, an ASME certified high-pressure stainless-steel surge chamber and check valve.
- 8.0 **Low pressure paint filtration:** Y type strainers shall be installed in the low-pressure plumbing connecting the paint supply tanks to the High-pressure paint pumps. A removable stainless-steel screen shall include approximately 1/8" diameter holes.
- 9.0 **Paint guns:** Four (4) Graco Model 238-377 paint guns with heavy duty reversible spray tips shall be provided. Full length 3/8" ID nylon lined high pressure paint hoses with 3/8" NPT plated female swivel fitting on both ends shall be provided from the surge chambers to the paint guns.
- 10.0 **Bead supply:** A 750# bead tank with three (3) 2" sight glasses shall be provided. Vacuum bead loading shall be provided using the City's shop air compressor.
- 11.0 **Bead guns:** Three (3) Graco Model 238-338 bead guns shall be provided. Full length 3/4" ID clear poly-spring bead hoses to be provided from the bead manifold under the bead tank to the bead guns.
- 12.0 **Air supply:** Air supply shall be supplied by a belt driven 30 cfm air compressor. The system shall include a 12-gallon air tank and LaMan 107F extractor/ dryer with auto drain. Two (2) air take off quick disconnect ports shall be provided- one at each gun carriage. A preset regulator shall be provided for carriage down pressure. A liquid filled system air pressure gauge shall be provided at the air compressor, also a liquid filled gauge and air pressure regulator for bead tank pressure shall be installed on the bead tank.

- 13.0 **Auxiliary engine:** A Honda Model GX690 23 hp gas engine shall be provided with controls at the engine. A separate CARB compliant 7-gallon gas tank and battery shall be provided for the Honda gas engine.
- 14.0 **Hydraulic power:** A 12-gallon hydraulic oil reservoir with sight level/temperature gauge, suction screen and return line filter with condition indicator shall be provided along with a belt driven pressure compensated piston type hydraulic pump. Gun carriages shall be positioned using a power steering system with tilt steering wheel with spinner knob at each operator position and 5' hydraulic cylinder for each carriage. A hydraulic by-pass shall allow a no-load start for the auxiliary engine.
- 15.0 **Electrical system:** A chassis cab control console shall be provided in the chassis cab containing the driver's controls for the paint striping body. Each circuit shall be color coded wire and shall have circuit protection. The wiring harnesses between the junction blocks to be protected by protective split loom covering. An LED white/red light with self-contained switch installed above each operator position. The electrical junction blocks and main components of the timer system shall be installed in an above deck weatherproof electrical box.
- 16.0 **Skip line control system:** **One (1)** Skip-Line, Inc. Model SC-12 Skip Timer shall be provided. Each operator position shall be wired to accept the timer, which can be installed at either position. Ground speed signal shall be obtained from a heavy-duty aluminum wrap installed on the chassis driveshaft. A Skip Line digital speedometer shall be installed in the chassis cab near the driver.
- 17.0 **Intercom system:** A three position David Clark Model U3800 intercom system shall be provided with a dual headset port at the driver's position and a single port at each operator position. The following headsets shall be provided-one (1) Model H3492 single muff and two (2) H3432 dual muff design. Three (3) headset storage hooks shall be provided.
- 18.0 **Safety lighting:** The following Whelen LED amber strobe lights shall be provided-Four (4) Model L31HAFCA 360° Super-LED beacons, one on each front corner of deck and one on each corner of the platform at the rear of unit. Two (2) Model IONSV1A Super-LED 180° mini strobe lights on gun carriages with one installed on outside edge of each gun carriage. The Whelen LED strobe light system shall be California Title 13 compliant.
- 19.0 **Electric actuators:** Four (4) electric gun actuators shall be provided to remotely adjust the height of the paint guns. Control switches shall be provided on each respective Model SC-12 Master Control Box to control the height of the paint guns on each respective gun carriage.

- 20.0 **LED Arrow Stick:** 47.75” long, 8 lamp Whelen Model TAC8 with controller in chassis cab.
- 21.0 **Drawings & technical literature:** A complete set of drawings shall be submitted. These drawings shall show the deck layout and weight distributions of the proposed unit. Descriptive literature, technical data and photographs shall be included with proposal.
- 22.0 **Technical support:** Training is not included in the base price but will be priced out on a case-by-case basis as a “sourced good” as part of the agreement with the individual customer. Two (2) consecutive days of training to instruct customer personnel in the operation and maintenance of the unit are recommended. After the completed truck has been received and accepted by the customer, the training will be scheduled. The customer is responsible for providing the paint and glass beads to be used during the training. Two (2) sets of Operation/Maintenance manuals shall be provided for the paint striping body on flash drives. Chassis manuals to be purchased by customer from their chassis vendor.
- 23.0 **Chassis:** The chassis shall be a 2023 Isuzu Model NPR-HD gas chassis rated at 14,500# GVWR; 6.6L V8 gas engine 350 hp @ 4500 rpm, 425 #/ft. of torque; 6-speed automatic transmission; 38.6 gallon fuel tank; heat & air conditioning; fire extinguisher, triangle kit; backup alarm; AM/FM/Bluetooth radio; white.
- 24.0 **Delivery:** The estimated delivery time is 120 days ARC (after receipt of chassis). The completed truck may be driven out for delivery or delivered via lowboy trailer. The customer is responsible to drive their new paint truck off the trailer. The production schedule along with the time frame for delivery will be discussed and confirmed at time of order.
- 25.0 **Warranty:** EZ Liner warrants all equipment manufactured by it and bearing its brand names to be free from defects in material and workmanship at the time of sale by EZ Liner or an authorized distributor. EZ Liner will for a period of twelve months from the date of sale, repair or replace any part of the equipment proven defective.

March 29, 2022

City of Merced-(Sourcewell Member ID #2325)
Attn: Mr. Juan Olmos
1776 Grogan Avenue
Merced, CA 95341

Comparison: Sourcewell Contract No. 080521-EZL Specifications for EZ Liner Model TS-AL110 Base Unit Product Code #18C dated 8/05/2021

To: City of Merced's Specifications for an Airless Truck Mounted Striping Machine Dated 03/03/2022/Revised 03/29/2022

The following items listed in the City's specifications are **changes to the contract specifications** that come under **Published Options**:

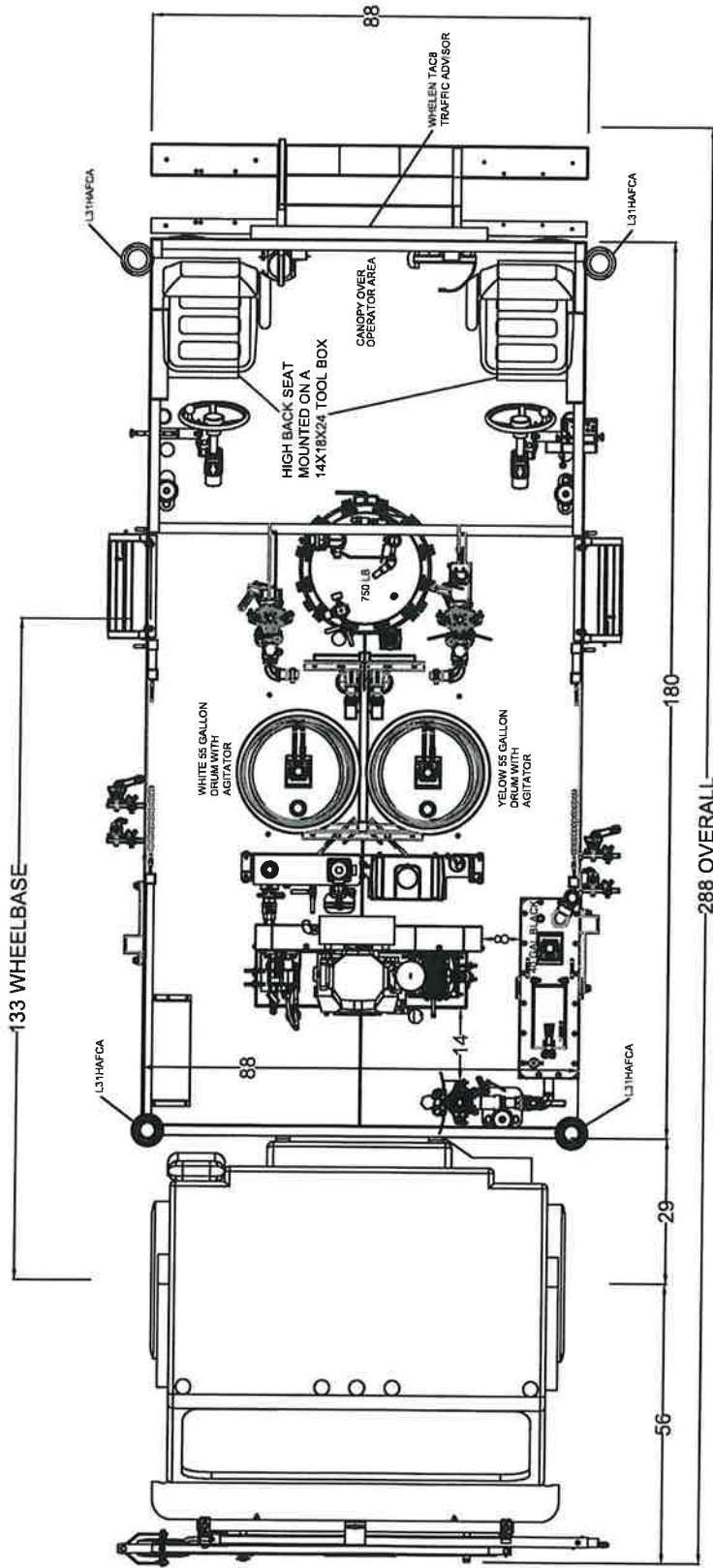
1. **Page 2; 10.0-Vacuum Bead Loading-Page 2; 10.0**-Vacuum bead loading using the City's shop air compressor has been added. This change is covered by **Option Code 18C-02-01**.
2. **Page 3; 16.0-Digital Speedometer-Page 3; 16.0**-A Skip-Line digital speedometer installed in the chassis cab has been added. This change is covered by **Option Code 18C-07-01**.

The following items listed in the City's specifications are **changes to the contract specifications** that come under **Sourced Goods**:

3. **Page 1; 3.0-Operator Seats w/Toolboxes-Page 1; 3.0**-The two (2) Bostrom HB air ride operator seats have been replaced with two (2) Bostrom HB non-suspension seats with an aluminum toolbox installed under each seat. These changes have been included on the Price Sheet.
4. **Page 2; 6.0-Drum Mount Paint Agitators-Page 2; 6.0**-Two (2) hydraulic powered paint agitators have been added with one for yellow paint and one for white paint. An addition has been included for this change.
5. **Page 2; 6.0, 7.0, 9.0 & Page 3; 19.0-Black Paint System-Page 2; 6.0, 7.0, 9.0 & Page 3; 19.0**-A 40-gallon stainless-steel paint tank with hydraulic powered agitator has been added for the black paint system. Also added for the black paint system is a Titan 8.6 gpm paint pump with a Y strainer low-pressure paint filter, a high-pressure paint filter

and an ASME surge chamber. A Graco paint gun for black will be installed between the two yellow paint guns on the left gun carriage. The paint gun will be equipped with a Gun Raiser using an electric actuator. An addition has been included for these changes.

6. **Page 3; 18.0-Strobe Light System-Page 3; 18.0**-The four (4) 360°strobe lights and two (2) 180° strobes have been replaced with models that are California Title 13 compliant. An addition has been included for these changes.
7. **Page 4; 22.0-Technical Support-Training-Page 4; 22.0**-The recommended two-day training session has been added. An addition has been included for the training session.
8. **Page 4; 23.-Isuzu Model NPR-HD Gas Chassis-Page 4; 23.0**-An Isuzu Model NPR-HD Gas chassis has been added to the specifications. An addition has been included for this change.
9. **Page 4; 24.0-Delivery-Page 4; 24.0**-A quote was received for the delivery trip to Merced. An addition has been included for the delivery trip.



PROPRIETARY

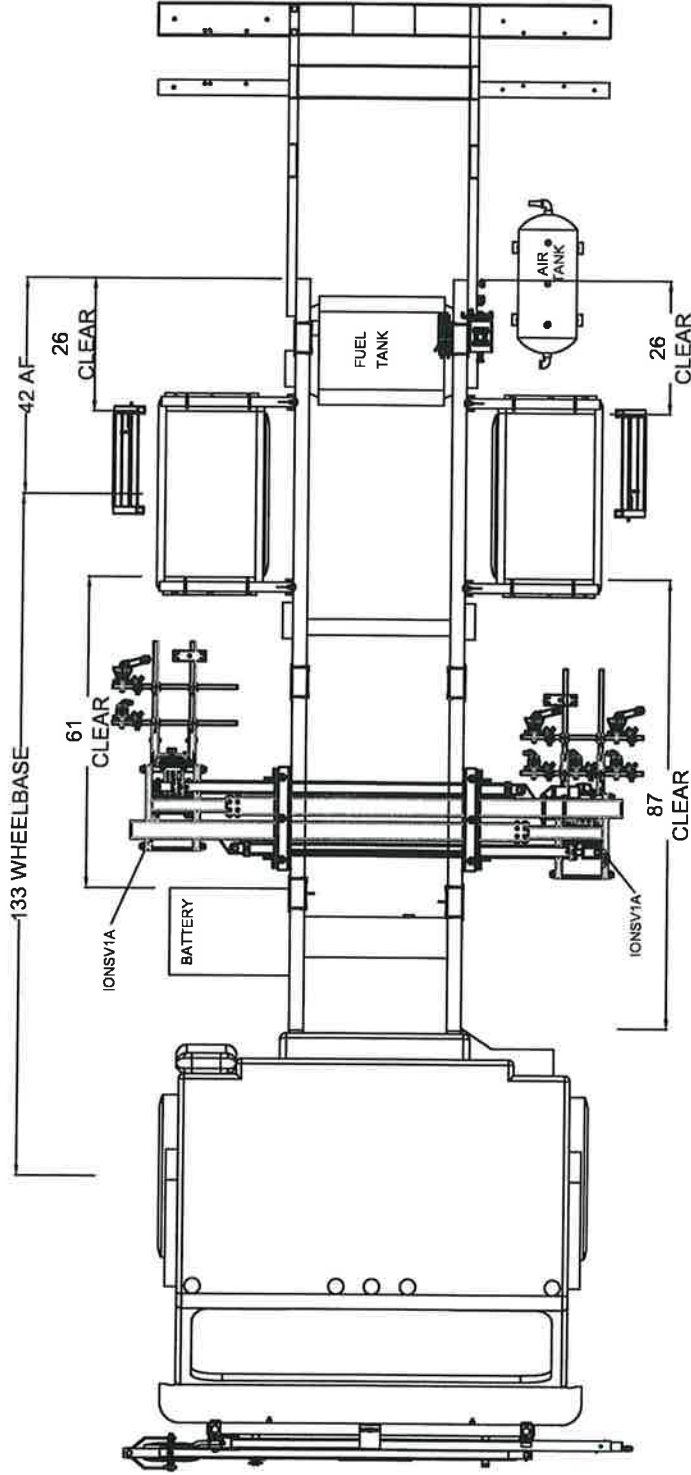
ESTIMATED WEIGHT DISTRIBUTION				FEDERAL
	EMPTY	FULL	RATED	BRIDGE
FRONT	5,121	5,771	6,630	20,000
REAR	5,689	8,040	11,020	20,000
TOTAL	10,810	13,811	14,500	40,000
CHECK YOUR STATE LAWS FOR STATE WEIGHT LIMITS AS THEY VARY BY STATE				

drawn JAT
 date created 3/28/22
 date revised



ORANGE CITY, IOWA 51041
 MERCED, CA 2022
 MODEL TS-AL150
 PROPOSED COMPONENT LAYOUT

rev A



PROPRIETARY



ORANGE CITY, IOWA 51041

MERCED, CA 2022

MODEL TS-AL150

PROPOSED COMPONENT LAYOUT

drawn **JAT**

date created **3/28/22**

date revised **—** rev **A**

