FY 2019 PM-10 Certified Street Sweeper Application Summary

Name: 033057
Id: PHX-2019-SW-002
Agency: Phoenix

This is a summary of the request submitted for federal Congestion Mitigation and Air Quality (CMAQ) improvement program funding, available through the Maricopa Association of Governments (MAG) for PM-10 certified street sweepers. An estimated $1,449,729.00 in FY 2019 CMAQ funding is available region wide. All applications are due on Thursday, September 13, 2018 by 10:00 AM. Late applications are not accepted.

Section: Funding Information

Summary of the estimated costs of the requested sweeper

Total Estimated Cost of Sweeper	$288,932
Total Eligible Cost	$283,252
Local Share of Costs	$21,826
Federal Share of Costs	$267,106

Section: Sweeper Purpose

What the requested sweeper will be used for

Replace a Noncertified Street Sweeper	No
Expand Service Area	No
Increase Sweeping Frequency	No
Replace an Older Certified Street Sweeper	Yes

Section: Roadway Types

The types of roads the requested sweeper will sweep

Arterial	Yes
Collector	Yes
Residential	Yes
Other	No

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Section: Roadway Type Information	
Details about the types of roads to be swept	
Arterial Sweep Cycle Length (measured in days between sweepings)	14
Arterial Lane Miles to be Swept per Cycle	108
Arterial Average Weekday Traffic per Lane Being Swept	8,800
Collector Sweep Cycle Length (measured in days between sweepings)	14
Collector Lane Miles to be Swept per Cycle	52
Collector Average Weekday Traffic per Lane Being Swept	5,000
Residential Sweep Cycle Length (measured in days between sweepings)	90
Residential Lane Miles to be Swept per Cycle	260
Residential Average Weekday Traffic per Lane Being Swept	500

Section: Replace a PM-10 Certified Street Sweeper	
Additional information about the sweeper being replaced	
Number of hours in service on the sweeper that is being replaced	5,730
The month and year that the older certified sweeper was put into service	May 2010
Number of miles (including deadhead miles) on the sweeper that is being replaced	47,100
Percent of time older sweeper was out of service	43%
Additional information about out of service percentage	The unit is a 2011 Model Year sweeper. This unit has been very problematic with repairs exceeding the life to date cost of other brooms of the same vintage. Repairs and down time have been excessive. The manufacturing and maintenance repair company, Wayne Sweeper LLC. went out of business making parts and repair extremely hard to find.

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Section: Proximity to PM-10 Monitor

Information about the sweeping route's proximity to a PM-10 monitor

Will the requested certified sweeper be used within 4 miles of a PM-10 monitor?	Yes
Names of PM-10 monitors within 4 miles of sweeping route	Glendale,West Phoenix,JLG Supersite,North Phoenix

Section: Local Resource Allocation

The resources prepared to make use of the street sweeper

Have local resources been committed to support the operation of the sweeper?	Yes
Details about local resources	"The City has set aside $49,070 per year in the FY2019 and FY2020 budget years for purchasing sweepers. This amount includes the 5.7% local matching funds, items not eligible for Federal reimbursements, and additional administrative costs. The Street Cleaning Section has a dedicated staff of 44 team members that include 1 team supervisor, 5 foremen, 1 administrative aid, and 37 teammates. This team is responsible for operating 34 street sweepers to meet the City's street sweeping schedules and provide additional 'storm responses' as needed. The Street Cleaning Section is part of the Street Maintenance Division. The Street Maintenance Divisions is the Street Department's largest division and is responsible for maintaining the City's roadways and other assets in the right-of-way. This staff takes care of issues such as asphalt/pothole repair, removal of debris in street, street resurfacing, street sweeping, removal of weeds in unimproved right-of-way, response to ADA issues in the right-of-way, grading/dustproofing alleys, response to storm related issues such as flooded streets and clogged storm drains, and wash maintenance. "

Section: Geographical Area

Information about the geographical area that the sweeper will operate in

Geographical area that the requested street sweeper will operate	The Central Service area is the area within the City of Phoenix bounded by 51 Ave to 40 St, Bell Rd. to Indian School Rd. This is shown in the map as area 35-6.

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Section: Additional Information

Additional information about the sweeper not covered in other sections

Is the agency willing to provide MAG with additional information?	Yes
Number of Certified Sweepers Operated by Agency	35
Number of Noncertified Sweepers Operated by Agency	0

This application was signed by Maria Hyatt on 8/28/2018

200 West Washington Street
Phoenix, AZ 85003
(602) 262-6011

	Exhibit A	**State of Arizona** **State Procurement Office** 100 N. 15th Ave, Suite 201 Phoenix, AZ 85007
	Solicitation No.: ADSPO14-00003602	
	Description: Statewide Medium and Heavy Duty Cab and Chassis	

Quote Sheet

State of Arizona Contract

Medium and Heavy Duty Cab and Chassis

DATE: AUGUST 2, 2018	
CUSTOMER: CITY OF PHOENIX	
State Contract Number: ADSPO15-093361	ProcureAZ Line Item Number: #4
Vehicle Description: Make, Model, Vehicle Code, And Trim Level FREIGHTLINER M2 106 CLASS 8	
Base Vehicle Price 2020 MODEL YEAR	$ 74,987.90
Manufacturer Options Upgrades or Upfit/Modifications Requirements CHASSIS OPTIONS TO FACILITATE MOUNTING BROOM BEAR SWEEPER BODY, MODICATIONS INCLUDE" RIGHT HAND DRIVE CONVERSION, DEALER ADD-ONS INCLUDE AIR TANK MOD, AIR HOSE IN CAB, WINDOW TINT, + (2) SPARE TIRES/WHEELS.	
1. CHASSIS OPTIONS	$ 7,107.98
2. CHASSIS MODIFICATIONS & DEALER ADD-ONS	$ 12,515.00
3. ELGIN BROOM BEAR BODY	$ 173,415.00
4.	$
5.	$
6.	$
7.	$
8.	$
9.	$
10.	$

$ 268,025.88	**Subtotal (Including Destination and Options)**
$ INCL.	**Upfit/Modification Requirements**
$ 20,906.02	**SALES TAX** @ 7.8%
$ —	**TIRE TAX**
$ —	**DELIVERY FEE**
$ 288,931.90	**TOTAL DELIVERED PRICE**

Freightliner of Arizona, LLC
1230 S. Akimel Lane
Chandler AZ, 85226
Phone: (480) 282-4000

Buyers Order

DE-04954
08/02/2018

Contact: Jim Ross - Mobile: 602-909-1751 - Email: jross@fswaz.com

Bill To: 4548
CITY OF PHOENIX - 22/23/27-CENTRAL
2441 S 22ND AVE
PHOENIX AZ 85009
Phone: (602)534-2129

Ship To:
CITY OF PHOENIX - 22/23/27-CENTRAL
2441 S 22ND AVE
PHOENIX AZ 85009

Stock#: On Order
VIN: TBD

New 2020 Freightliner

Price:	$268,025.88
Unit Price:	**$268,025.88**
Net Difference	**$268,025.88**
FET: $0.00 - Tire Credit: $0.00 = Net FET	$0.00
State Sales Tax	$20,906.02
Total Vehicle Sale Price	**$288,931.90**
Net Total	**$288,931.90**

M2 106 w/ Elgin Broom Bear Sweeper

Legal title to the described vehicle(s) does not pass to purchaser until such time as title to any trade-in is proven to the satisfaction of FREIGHTLINER OF ARIZONA LLC to be unencumbered and purchaser's check or draft, if any, has been verified and cleared. This is to certify that this is a true and correct Bill of Sale.

Dealer: Freightliner of Arizona, LLC
(Printed)

Customer: CITY OF PHOENIX - 22/23/27-CENTRAL
(Printed)

By: _____
(Signature)

By: _____
(Signature)

_____
Date

_____
Date

SWORN to and SUBSCRIBED before me this _____ day of _____, _____. Notary Public: _____

Prepared for:
Bonnie Shockley
City of Phoenix
2441 S 22nd Ave
Phoenix, AZ 85009
Phone: 602-534-2191

Prepared by:
Jim Ross
FREIGHTLINER OF ARIZONA
9899 W ROOSEVELT STREET
TOLLESON, AZ 85353
Phone:

S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-18M	M2 PRL-18M (EFF:04/17/18)		
Data Version			
DRL-014	SPECPRO21 DATA RELEASE VER 014		
Vehicle Configuration			
001-172	M2 106 CONVENTIONAL CHASSIS	5,759	3,503
004-220	2020 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-012	PREP FOR LH PRIMARY STEERING LOCATION AND CUSTOMER SUPPLIED RH SIT-DOWN SECONDARY STEERING LOCATION WITH DUAL INSTRUMENT CLUSTER		
General Service			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1UH	UTILITY HAZMAT BUSINESS SEGMENT		
AA4-011	FIXED LOAD COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-091	MEDIUM TRUCK WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 10000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 33000.0 lbs		

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Data Code	Description	Weight Front	Weight Rear
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 0.0 lbs		
Truck Service			
AA3-022	STREET SWEEPER BODY		
A88-99D	EXPECTED TRUCK BODY LENGTH : 6.0 ft		
A89-99D	BRAKING-EXPECTED CAB TO BODY CLEARANCE : 3.0 in		
AF3-1T6	ELGIN SWEEPER COMPANY		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		
Engine			
101-22M	CUM L9 260 HP @ 2200 RPM; 2200 GOV RPM, 720 LB/FT @ 1300 RPM	640	30
Electronic Parameters			
79A-075	75 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79G-102	4 MINUTE IDLE SHUTDOWN - TIMER RESET WITH CLUTCH AND SERVICE BRAKE		
79K-027	PTO MODE ENGINE RPM LIMIT - 2200 RPM		
79L-026	PTO MODE THROTTLE OVERRIDE- LIMIT TO 2200 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
79P-022	PTO RPM WITH CRUISE SET SWITCH - 890 RPM		
79Q-019	PTO RPM WITH CRUISE RESUME SWITCH - 890 RPM		
79S-007	PTO MODE CANCEL VEHICLE SPEED - 20 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
79W-001	ONE REMOTE PTO SPEED		
79X-022	PTO SPEED 1 SETTING - 890 RPM		
80G-013	PTO MINIMUM RPM - 890		
80J-001	REGEN INHIBIT SPEED THRESHOLD - 0 MPH		
Engine Equipment			
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		

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Data Code	Description	Weight Front	Weight Rear
133-004	ONE PIECE VALVE COVER		
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED		
190-015	DONALDSON 1-STAGE AIR CLEANER WITH SAFETY ELEMENT		
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-098	(2) ALLIANCE MODEL 1231XOE, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
87P-998	NO CAB AUXILIARY POWER WIRING		
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
131-013	AIR COMPRESSOR DISCHARGE LINE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-998	NO RETARDER		
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-020	10 FOOT 00 INCH (120 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
235-078	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL DPF ATD OR AFTERTREATMENT SYSTEM		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		

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Data Code	Description	Weight Front	Weight Rear
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
266-013	1100 SQUARE INCH ALUMINUM RADIATOR	20	
267-006	MOUNTING FOR FIREWALL MOUNTED SURGE TANK		
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		
Transmission			
342-584	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60
Transmission Equipment			
343-321	ALLISON VOCATIONAL PACKAGE 169 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS		
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		

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Data Code	Description	Weight Front	Weight Rear
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84E-013	S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84F-014	S3 ECONOMY SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84G-014	2200 RPM PRIMARY MODE SHIFT SPEED		
84H-014	2200 RPM SECONDARY MODE SHIFT SPEED		
84J-000	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84K-000	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-010	DISABLE - LOAD BASED SHIFT SCHEDULE, DISABLE - VEHICLE ACCELERATION CONTROL		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
85E-019	MAXIMUM ENGINE SPEED FOR PTO ENGAGEMENT 1400 RPM		
85F-094	MAXIMUM ENGINE SPEED FOR PTO OPERATION 5000 RPM		
85G-024	MAXIMUM OUTPUT SPEED FOR PTO ENGAGEMENT 625 RPM		
85H-049	MAXIMUM OUTPUT SPEED FOR PTO OPERATION 1250 RPM - ALLISON 5TH GEN TRANSMISSIONS		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-1G0	MUNCIE PTO - MPMCS10A1010 H1BX	70	
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		

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Data Code	Description	Weight Front	Weight Rear
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		
Front Axle and Equipment			
400-1A5	DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE		
402-020	MERITOR 15X4 Q+ CAM FRONT BRAKES		
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS	5	
409-006	FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
536-050	TRW THP-60 POWER STEERING		
539-003	POWER STEERING PUMP		
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
40T-002	SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension			
620-1E9	12,000# MONO TAPERLEAF FRONT SUSPENSION		
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
62H-010	FRONT SUSPENSION WITH LEFT HAND OFFSET SHACKLE BRACKET	4	
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-1KG	23082T 23,000# R-SERIES 2-SPEED 48MM BOWL OFFSET SINGLE REAR AXLE		240
421-037	6.17/8.42 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-20	-20
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		

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Data Code	Description	Weight Front	Weight Rear
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-003	STANDARD BRAKE CHAMBER LOCATION		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		5
440-006	REAR OIL SEALS		
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
876-004	ELECTRIC OVER AIR CONTROL WITH INDICATOR LAMP FOR 2-SPEED REAR AXLE		
87C-001	LOW RANGE TWO-SPEED DEFAULT WITH IGNITION OFF		
898-002	AIR SHIFTER FOR 2-SPEED REAR AXLE		
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE		
42T-004	REMOTE MOUNTED REAR AXLE BREATHER(S)		
Rear Suspension			
622-150	HENDRICKSON HAS-230 @23,000# REAR SUSPENSION		320
621-010	HENDRICKSON HAS; REYCO 240 AR, 8.50" RIDE HEIGHT		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
910-001	SINGLE AIR REAR SUSPENSION LEVELING VALVE		
623-002	TRANSVERSE CONTROL RODS		
439-010	REAR SHOCK ABSORBERS-ONE AXLE MOUNTED INBOARD		
Brake System			
018-002	AIR BRAKE PACKAGE		
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20	
479-015	AIR DRYER FRAME MOUNTED		

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Data Code	Description	Weight Front	Weight Rear
460-001	STEEL AIR BRAKE RESERVOIRS		
	USING MOUNT PRIMARY TANK OUTBOARD USING BRAKET -A12-15174-000 MOUNT SECONDARY RH INBROARD USING BRACKET -12-21013- 0 0 0		
607-011	CLEAR FRAME RAIL 36 INCHES FROM BACK OF CAB INSIDE/OUTBOARD AND BELOW LH FRAME RAIL		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
Trailer Connections			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
Wheelbase & Frame			
545-345	3450MM (136 INCH) WHEELBASE		
546-092	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8/0.344X10.94 INCH) 80KSI	-250	190
552-1AC	600MM (24 INCH) REAR FRAME OVERHANG		
55W-999	24" FRAME OVERHANG RANGE		
	24" OVERHANG		
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 70.45 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 67.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : -9832.81		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 70.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 50.84 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 50.81 in		
553-008	ANGLED END OF FRAME CUT WITH TOP AND BOTTOM FLANGE HOLES		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-068	ANGLED REAR CROSSMEMBER FOR ELGIN BROOM BEAR		
565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
556-1AN	THREE-PIECE 14 INCH STEEL CENTER BUMPER WITH FLEXIBLE PLASTIC ENDS		
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		

Prepared for:
Bonnie Shockley
City of Phoenix
2441 S 22nd Ave
Phoenix, AZ 85009
Phone: 602-534-2191

Prepared by:
Jim Ross
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9899 W ROOSEVELT STREET
TOLLESON, AZ 85353
Phone:

Data Code	Description	Weight Front	Weight Rear
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
605-1AB	D15-16004-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON FRAME WEB		
606-1M7	DRILLING PREP FOR ELGIN PER DRAWING #1108906, REVISION 3		
Fuel Tanks			
204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
218-005	RECTANGULAR FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-1H3	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	-5	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-2C5	HANKOOK AL11 11R22.5 14 PLY RADIAL FRONT TIRES	8	
094-2C5	HANKOOK AL11 11R22.5 14 PLY RADIAL REAR TIRES		60
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Wheels			
502-524	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 6.20 INSET 2-HAND STEEL DISC FRONT WHEELS		
505-524	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS		
496-011	FRONT WHEEL MOUNTING NUTS		

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Data Code	Description	Weight Front	Weight Rear
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
705-012	CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS	2	
678-001	LH AND RH GRAB HANDLES		
646-009	PAINTED PLASTIC GRILLE		
65X-001	ARGENT SILVER HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
690-002	TUNNEL/FIREWALL LINER		
726-002	DUAL ELECTRIC HORNS		
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-043	INTEGRAL HEADLIGHT/MARKER ASSEMBLY		
302-001	(5) AMBER MARKER LIGHTS		
294-094	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TAIL WIRES TO 7 FEET BEYOND END OF FRAME		-5
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74B-080	RH AND LH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	8	
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
663-013	TINTED WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

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Data Code	Description	Weight Front	Weight Rear
Cab Interior			
707-1AK	OPAL GRAY VINYL INTERIOR		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10
759-003	DUAL PASSENGER SEAT ARMRESTS, NO DRIVER SEAT ARMRESTS		
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		

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Data Code	Description	Weight Front	Weight Rear
532-027	ADJUSTABLE STEERING COLUMN, SUPPLIER CONVERSION TO LH AND RH ADJUSTABLE TILT STEERING COLUMNS	10	
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instruments & Controls			
732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS		
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-039	(1) HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH AND (1) SAE J1939 DIAGNOSTIC INTERFACE CONNECTOR LOCATED CENTER OF DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-035	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	5	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		

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Data Code	Description	Weight Front	Weight Rear
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-053	ONE VALVE PARK BRAKE SYSTEM WITH WARNING INDICATOR AND CUSTOMER WIRED AUTOPARK WITH AUTONEUTRAL PREP KIT		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		
Design			
065-000	PAINT: ONE SOLID COLOR		
Color			
980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC		
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX		
963-003	STANDARD E COAT/UNDERCOATING		
Certification / Compliance			
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		
Secondary Factory Options			
998-033	CORPORATE PDI CENTER IN-SERVICE AND OPTION INSTALLATION/MODIFICATION		
99B-001	SHIP TO FONTAINE (CHARLOTTE, NC) PRIOR TO DELIVERY		

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Data Code	Description	Weight Front	Weight Rear
999-999	DUAL STEER/FONTAINE MODS		
	DUAL STERR/FONTAINE MODS		
835-003	J1939 500KBPS TO J1939 250KBPS GATEWAY FOR TELEMATICS, VIRTUAL TECHNICIAN AND BODY BUILDER INTERFACE		
288-002	CHASSIS WIRING - STANDARD		

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight+	6614 lbs	4418 lbs	11032 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight+	6614 lbs	4418 lbs	11032 lbs

Dealer Installed Options

		Weight Front	Weight Rear
FONT	FONTAINE RH SIT DOWN DRIVE	0	0
NOR	BROOM BEAR STREET SWEEPER	0	0
	Total Dealer Installed Options	0 lbs	0 lbs

(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.

NORWOOD EQUIPMENT INC.

QUOTATION

511 E. Mohave St.
Phoenix, A Z 85004
Phone 602-254-0644 Fax 602-: 253 4100

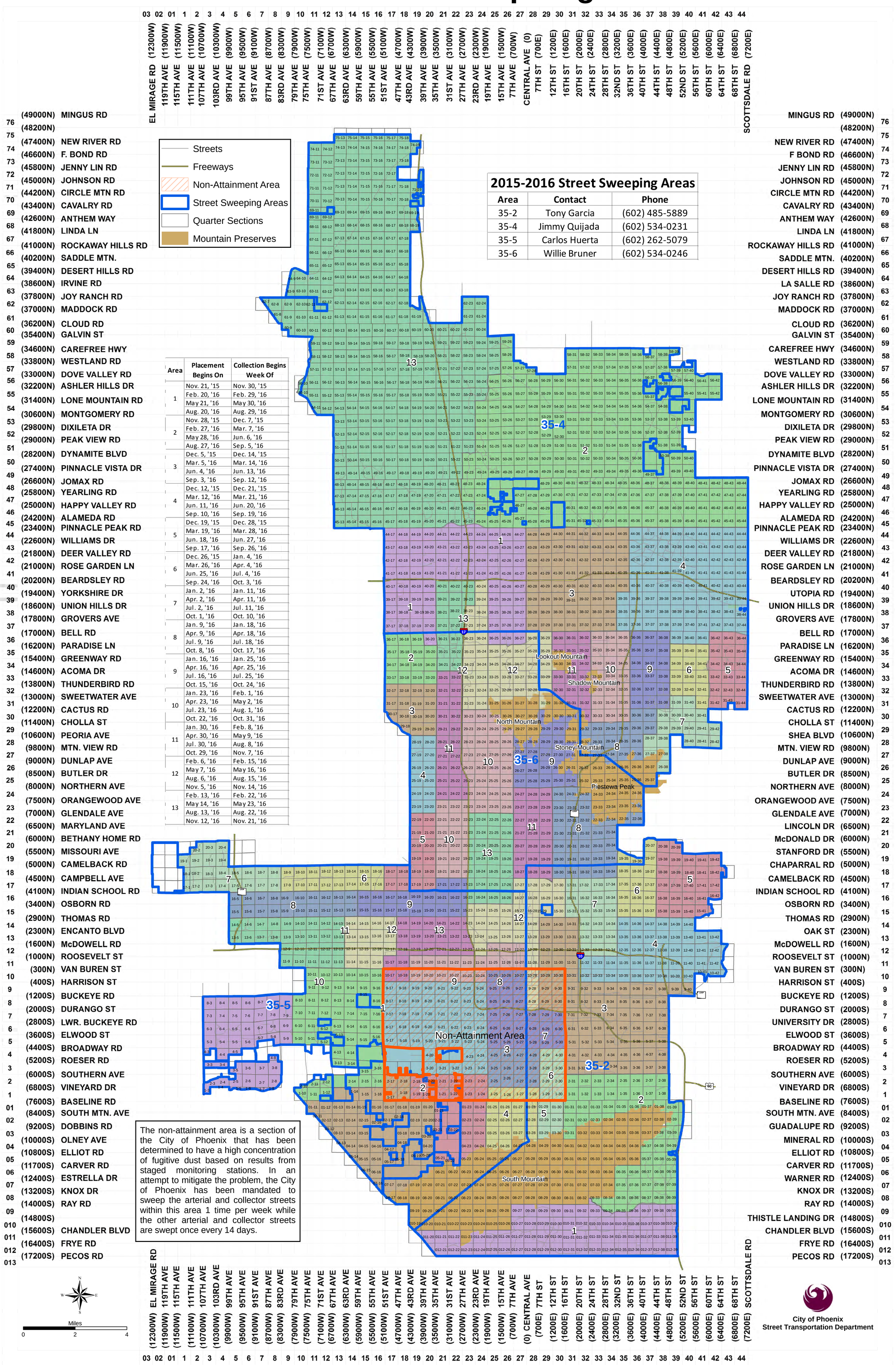
FOR:	FSW Of Arizona RE: Phoenix Sweeper Contract 2020	END USER REFERENCE:	DATE:07/31/2018
		PREPARED BY: BILL OLIVE	QUOTATION # 3001
ATTN:	Jim Ross		
Fax	PHONE		

QUANTITY		T	UNIT PRICE	AMOUNT
1 Each	Elgin Broom Bear Street Sweeper			153,273.00
	Mounted On Freightliner M2 Chassis			
	Sweeper Auto Lube System			5,310.00
	Broom Bear Parts, Operator, Service Manuals			100.00
	Slow Moving Vehicle Emblem			160.00
	Broom Bear Mileage Recorder			409.00
	Hydraulic Oil Temp Display			326.00
	PM10 Compliant			3,364.00
	Left Hand and Right Hand Gutter Broom Tilt			2,091.00
	Full Width Front Spray Bar			797.00
	LH Fender Mirror			200.00
	2 Hopper Strobes With Guard			945.00
	25' Water Hose Per Phoenix Specs			445.00
	Phoenix Spec Master Battery Shutoff			735.00
	Brigade Electronic Back Up Alarm			360.00
	14 LED Flashers			2600.00
	5LB Fire Extinguisher			50.00
	James King Safety Kit			230.00
	2 Spare Tires/Wheels Mounted			1700.00
	Window Tint			120.00
	2 LED Work Lights In Hopper			200.00
	NOTE: Sweeper Prices Good Through September 2019			
	Taxes Not Included			

TOTAL	$ 173,415.00
TAX RATE	
SALES TAX	
F.E.T.	
TOTAL	

THANK YOU FOR YOUR BUSINESS!

Bulk Trash Collection and Street Sweeping Areas



2015-2016 Street Sweeping Areas		
Area	Contact	Phone
35-2	Tony Garcia	(602) 485-5889
35-4	Jimmy Quijada	(602) 534-0231
35-5	Carlos Huerta	(602) 262-5079
35-6	Willie Bruner	(602) 534-0246

Area	Placement Begins On	Collection Begins Week Of
1	Nov. 21, '15	Nov. 30, '15
	Feb. 20, '16	Feb. 29, '16
	May 21, '16	May 30, '16
	Aug. 20, '16	Aug. 29, '16
2	Nov. 28, '15	Dec. 7, '15
	Feb. 27, '16	Mar. 7, '16
	May 28, '16	Jun. 6, '16
	Aug. 27, '16	Sep. 5, '16
3	Dec. 5, '15	Dec. 14, '15
	Mar. 5, '16	Mar. 14, '16
	Jun. 4, '16	Jun. 13, '16
	Sep. 3, '16	Sep. 12, '16
4	Dec. 12, '15	Dec. 21, '15
	Mar. 12, '16	Mar. 21, '16
	Jun. 11, '16	Jun. 20, '16
	Sep. 10, '16	Sep. 19, '16
5	Dec. 19, '15	Dec. 28, '15
	Mar. 19, '16	Mar. 28, '16
	Jun. 18, '16	Jun. 27, '16
	Sep. 17, '16	Sep. 26, '16
6	Dec. 26, '15	Jan. 4, '16
	Mar. 26, '16	Apr. 4, '16
	Jun. 25, '16	Jul. 4, '16
	Sep. 24, '16	Oct. 3, '16
7	Jan. 2, '16	Jan. 11, '16
	Apr. 2, '16	Apr. 11, '16
	Jul. 2, '16	Jul. 11, '16
	Oct. 1, '16	Oct. 10, '16
8	Jan. 9, '16	Jan. 18, '16
	Apr. 9, '16	Apr. 18, '16
	Jul. 9, '16	Jul. 18, '16
	Oct. 8, '16	Oct. 17, '16
9	Jan. 16, '16	Jan. 25, '16
	Apr. 16, '16	Apr. 25, '16
	Jul. 16, '16	Jul. 25, '16
	Oct. 15, '16	Oct. 24, '16
10	Jan. 23, '16	Feb. 1, '16
	Apr. 23, '16	May 2, '16
	Jul. 23, '16	Aug. 1, '16
	Oct. 22, '16	Oct. 31, '16
11	Jan. 30, '16	Feb. 8, '16
	Apr. 30, '16	May 9, '16
	Jul. 30, '16	Aug. 8, '16
	Oct. 29, '16	Nov. 7, '16
12	Feb. 6, '16	Feb. 15, '16
	May 7, '16	May 16, '16
	Aug. 6, '16	Aug. 15, '16
	Nov. 5, '16	Nov. 14, '16
13	Feb. 13, '16	Feb. 22, '16
	May 14, '16	May 23, '16
	Aug. 13, '16	Aug. 22, '16
	Nov. 12, '16	Nov. 21, '16

The non-attainment area is a section of the City of Phoenix that has been determined to have a high concentration of fugitive dust based on results from staged monitoring stations. In an attempt to mitigate the problem, the City of Phoenix has been mandated to sweep the arterial and collector streets within this area 1 time per week while the other arterial and collector streets are swept once every 14 days.

Revised 1/25/2016
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