



Peter A. Towey
Chief Fire Services

**Torrington Fire Department
City of Torrington**

David A. Tripp, Jr.
Deputy Chief Operations

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Training/Safety Division

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Fire Prevention/Investigation Division



Date: January 28, 2021

To: Mayor Elinor Carbone, Board of Public Safety, City Council, and Board of Finance

From: Peter Towey, Fire Chief

Subject: Recommendation to purchase E-One HP78 Demo Apparatus

I am recommending that the City of Torrington purchase the 2019 E-One HP78 Demonstration Quint Apparatus, with required modifications and equipment from Greenwood Emergency Vehicles in Attleboro Falls, MA. The total cost of this project would be \$868,824.47. (See attached Cost Summary and Drawing). This total project cost is below the current identified funding level and approximately \$80,000 below projected build costs without equipment. This recommendation would also ensure delivery of the apparatus for deployment on or before July 1, 2021. This recommendation was presented to the Torrington Vehicle Replacement Committee and received support to move forward in the process. The Dealer, Greenwoods Emergency Vehicles, will include the 60-month extended warranty for this vehicle if they receive a letter of commitment before February 16, 2021.

Background

The City of Torrington Fire Department is scheduled to replace Vehicle 2010 (Engine 1, 2000 E-one Pumper, Reserve/Call Back Apparatus) in fiscal year 2021-2022. The scheduled vehicle replacement plan is to purchase a replacement for Engine 2 (Vehicle 2025, 2007, American LaFrance Quint) and move it to the reserve fleet to replace Vehicle 2010. This will result in the replacement of our oldest apparatus, and move our oldest front-line apparatus to the reserve fleet. The replacement of this vehicle has been pushed back once to accommodate the increased projected funding need.

The recommend demonstration unit is a 2019 E-One HP78 Quint apparatus with approximately 18,460 miles and 540 hours. E-One Supplies a standard 1-year warranty for this vehicle. If the City of Torrington commits to the purchase of this vehicle prior to 1-year build anniversary on February 16, 2021, the full Major Competent Warranties (Engine, Axle, Transmission, Pump, Etc.) will be provided. An extended warranty option is available and is being provided by the dealer if they receive a letter of commitment before February 16, 2021. (A \$10,000 item). This warranty would provide an additional 60 months of coverage with unlimited miles

Our Vehicle Committee has been researching vendors and apparatus options to develop a specification sheet for this replacement apparatus. The Fire Department Vehicle Committee has been researching vendors and their apparatus options to develop a specification sheet for the replacement of this apparatus. The major fire apparatus vendors contacted were Pierce, Rosenbauer, E-One and Sutphen. Each vendor supplied a demonstration unit and provided a presentation of their apparatus for review. In using HGAC consortium pricing, an estimated cost to build the replacement apparatus is falling in the \$925,000 to \$950,000 price range which does not include hoses or equipment. Moving forward with this process would also result in a 12 – 14 month build schedule.

Conclusion

The recommended HP78 demonstration unit has low mileage and includes the upgraded 78-foot aerial with an increased tip load and capabilities which would serve the City of Torrington well. The demonstration unit was brought to Torrington and determined to meet the Fire Department's current and future needs. The purchase of this demonstration apparatus would result in a substantial savings to the City, while allowing for the new apparatus to be placed in service, equipped and ready to operate.

Cost Summary

<u>Demo Modifications Requests</u>	<u>Cost</u>
Fabricate a hose bed above the R1 compartment.	\$600
Remove the seat behind the officer seat and fabricate a medical compartment similar to the compartment behind the driver seat. Fabricate a shelf/compartment between the two medical compartments. Add 110v and 12v power to both compartments and shelf.	\$6,000
Fabricate a vertical divider in L1 and move the Little Giant ladder into this area. The remaining compartment floor will be utilized for a Junkin JSA -200 split stokes basket. Above the basket will have a floor fabricated in order to store hose/equipment. The remaining area of this compartment will have trays/shelves fabricated at the owner's design.	\$600
Add a front axle brake	\$3,000 (placeholder)
Install a Set Com 950 wireless headset system designed for aerial apparatus. Include one wireless headset for Driver and 1 Wired (not Wireless-confirm pricing please) headset for other seated position.	\$7354
Add two Whelen LED warning lights (amber) to the ground ladder access doors in the rear body and wired to the existing warning lights.	\$1500
Add alternating flasher to the headlights	\$150
Program lower level existing scene light high on cab	\$800
(2) Fire Tech 35" LED lights with white housings to be mounted over the rear wheels. Manually switched by both the officer and driver with respective left and right side switches.	\$6,090
Add an Opticom to the roof of the cab or to the existing light bars. \$2171	\$2,171
Add 110 volt outlets to 3 compartments in the body.	\$2028 (\$676ea)
Install On-Spot chains	\$3,027.00
Install a transfer switch from the shoreline to generator power.	\$2500
Apparatus is sold as is, no shelving is included. \$12,000 estimate being included in this list as a place holder (Underage may go to additional loose equipment	\$12,000
Mobile Repeater	\$15,000
Total Demo Modifications	\$62,820

Final Demo Cost Summary

HP78 Demo	\$760,000
Demo Modifications	\$ 62,820
Attached Loose Equipment	\$46,004.47
Total Cost	\$868,824.47

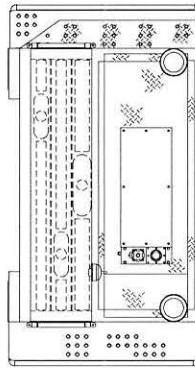


E-ONE, INC.
OCALA, FL
S.O.142078 / QUOTE 88753
AERIAL BODY
TYPHOON X LONG CHASSIS
HP78 AERIAL LADDER

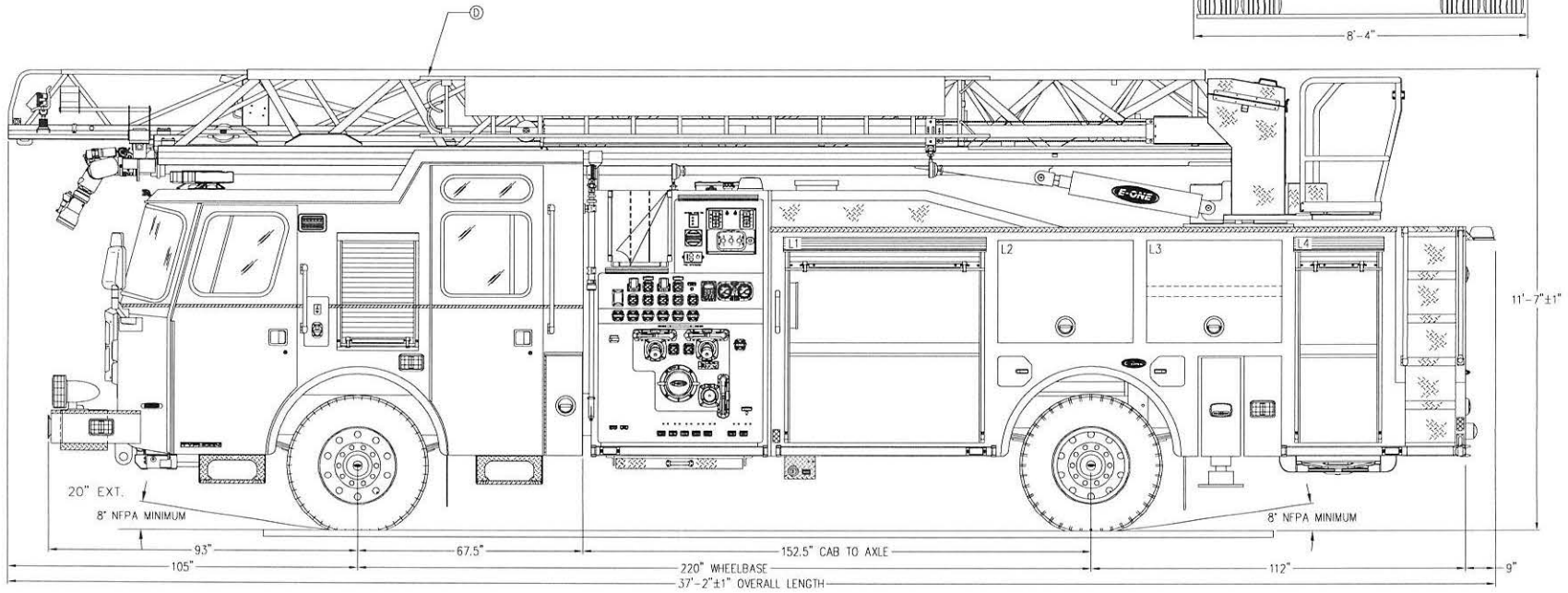
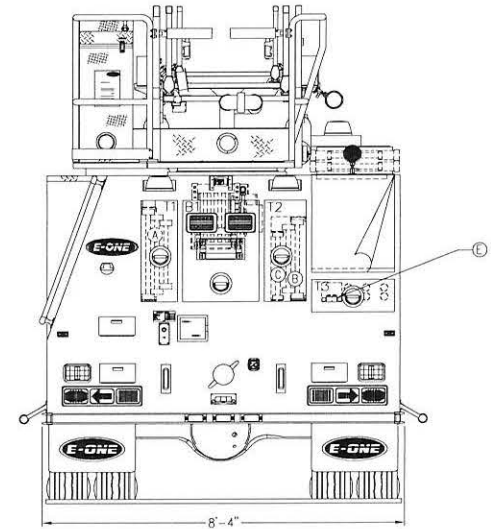
THIS DRAWING IS FOR REFERENCE PURPOSES. ALL DIMENSIONS ARE
SUBJECT TO MINOR VARIATIONS DUE TO MANUFACTURING PROCESSES.

APPROVED FOR PRODUCTION

DESIGNER: BRIAN MASON DATE: 2017-12-11



TOP VIEW OF PUMP MODULE



SHORT	A	DATE RELEASE	2017-DEC-11	DESIGNER
DRAWN BY	REV	NO DESCRIPTION	DATE	APPROVED
		APPROVAL REVISIONS		SHEET 1 OF 2



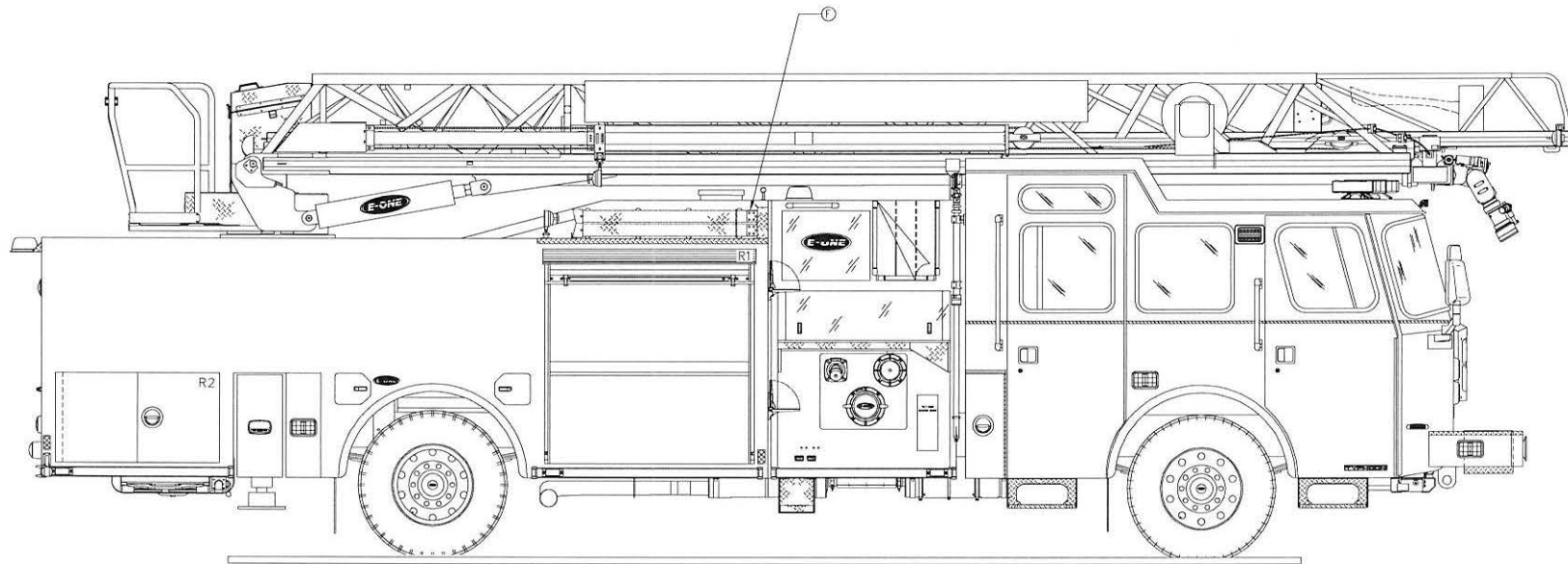
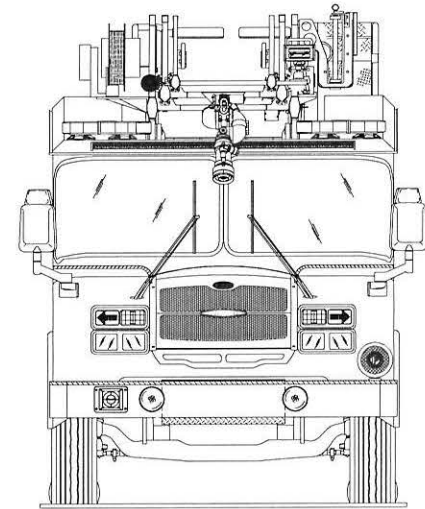
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APPROVED FOR PRODUCTION

DESIGNER: D. BRAY DATE: 2017-10-03

2000 GPM HALE QMAX PUMP 500 GALLON WATER TANK					HOSE LOAD:			
					STD.			
COMPT.		OPENING		INTERIOR DIMENSION				
L1	58W	52H	60W 60W	35H 28H	24D 26D	UPPER LOWER		
L2	40W	31H	40W		35H	24D		
L3	40W	31H	40W	28H	21D	UPPER		
L4	24W	52H	40W	14H	24D	LOWER		
R1	58W	52H	28W	35H	24D	UPPER		
			26W	28H	26D	LOWER		
R2	47W	52H	60W	35H	23D	UPPER		
			60W	28H	26D	LOWER		
B1	47W	26H	45W 26H 26D					
T1	21W	28H	TURNABLE ACCESS ONLY					
T2	10W	28H	VERTICAL LADDER STORAGE					
T3	11W	28H	VERTICAL LADDER STORAGE					
T4	23W	9H	PIKE POLE/ATTIC LADDER TUNNEL					
GROUND LADDERS								
ITEM	LADDER LENGTH		MODEL NUMBER			QTY		
A	35' 3-SECT		PEL3-35			1		
B	28' 2-SECT		PEL-28			1		
C	16' ROOF		PRL-16			1		
D	14' ROOF		PRL-14			1		
E	10' FOLDING		FL-10			1		
F	LITTLE GIANT		MODEL 17			1		



DATE	A	DATE RELEASE	2017-05-11	DESIGN
DRAWN BY	REV.	DESCRIPTION	DATE	APPROVED
APPROVAL REVISIONS				

SHEET 3 OF 2



New Truck Quote Form

1/19/2021

TORRINGTON, CT

				CUST	CUST COST
VENDOR	PART #	DESCRIPTION	QTY	COST	TOTAL
E-DARLEY	AS32201-G	50' KEY HOSE COMBAT READY 1.75" WITH 1.5"NH CPLNGS GREEN STENCIL	5	\$ 272.95	\$ 1,364.75
	AS32201-O	50' KEY HOSE COMBAT READY 1.75" WITH 1.5"NH CPLNGS ORANGE STENCIL	5	\$ 272.95	\$ 1,364.75
	AS32201-W	50' KEY HOSE COMBAT READY 1.75" WITH 1.5"NH CPLNGS WHITE STENCIL	3	\$ 272.95	\$ 818.85
	AS32301-Y	50' KEY HOSE COMBAT READY 2.5"NH CPLNGS YELLOW STENCIL	4	\$ 352.95	\$ 1,411.80
	DN30-800PU-Y-50-ARN	50' KEY HOSE MAGLITE 3" W/ 2.5"NH COUPLINGS BLUE STENCIL	6	\$ 385.00	\$ 2,310.00
	H795	AMEREX 2.5 GAL H2O EXTINGUISHER	1	\$ 122.95	\$ 122.95
	H793	AMEREX 20 LB CO2 EXTINGUISHER	1	\$ 340.95	\$ 340.95
	AF554	AMEREX 10 LB ABC EXTINGUISHER ALUM VLV	1	\$ 77.95	\$ 77.95
KOCHEK	DJP507-1-P09	100' X 5" STORZ SUPPLY HOSE YELLOW STENCIL	10	\$ 944.99	\$ 9,449.85
	36R1515-H52	1.5" x 1.5" NH Rocker Lug Double Male	1	\$ 21.74	\$ 21.74
	35R1515-H52	1.5" x 1.5" NH Rocker Lug Double Female	1	\$ 30.95	\$ 30.95
	36R2525-H52	2.5" NH X 2.5" NH DBL RL MALE	1	\$ 26.99	\$ 26.99
	35R2525-H52	2.5" NH X 2.5" NH DBL RL FEMALE	1	\$ 38.69	\$ 38.69
	09K25225M-H51	GATE VALVE 2.5 NH SW RL F X 2.5 NH M NAT/GREY W/ HANDWHEEL	2	\$ 259.19	\$ 518.37
	10K40105	GATE VALVE 4 NH SW LH F X 5 STORZ 25" ELBOW W/RE (changed Model)	1	\$ 1,180.79	\$ 1,180.79
TASK FORCE TIPS	ME1TO-262	METRO 1 TIP 1.5"F 185 GPM @ 50 PSI K=26.2	2	\$ 603.00	\$ 1,206.00
	F140F	BALL VALVE 1.5"F X 1.5"M FULL TIME SWIVEL 1.375" WATERWAY	2	\$ 351.00	\$ 702.00
	F140F	BALL VALVE 1.5"F X 1.5"M FULL TIME SWIVEL 1.375" WATERWAY	1	\$ 351.00	\$ 351.00
	FSS12	STRAIGHT TIP 15/16" NH	1	\$ 108.00	\$ 108.00
	J140F	BALL VALVE 2.5"F X 1.5"M SWIVEL ROCKER X RIGID MALE	1	\$ 418.50	\$ 418.50
	FSS11	STRAIGHT TIP 1-1/4" X 1.5"F NH THREAD	1	\$ 108.00	\$ 108.00
	YST-3NN	3 STACK TIPS 3.5"NH 2.50" 2.25" 2.00" TIPS	1	\$ 688.50	\$ 688.50
AKRON BRASS	7982	REVOLUTION SWIVEL ELBOW INTAKE VALVE 5" STORZ X 6" NH LH OUTLET (need Five to 6	1	\$ 2,010.00	\$ 2,010.00
SUPERVAC	V16-BD-12-AC-SP	16" PPV, 2x 12 Ah Bat., 2x AC Chargers, Shore Power	1	\$ 5,338.00	\$ 5,338.00
	BC12-X12	2 Pack, DeWalt 12 Ah Batteries	1	\$ 880.00	\$ 880.00
HOME DEPO	MXF314-2XC	MILWAULKEE 14" MX FUEL CUT OFF SAW W/2 BATTERIES 1 110V CHARGER	1	\$ 2,500.00	\$ 2,500.00
BRAND COMPANY	44451	STREAMLIGHT FIRE VULCAN	5	\$ 184.00	\$ 920.00
	45670	STREAMLIGHT PORTABLE SCENE LIGHTS	2	\$ 675.00	\$ 1,350.00
	460054	STREAMLIGHT 110 VOLT CORD	2	\$ 48.00	\$ 96.00
FIRE HOOKS	17 VARIOUS	(2) PB-30 (2) FA-8 (1) SHF-8 (1) BC-24 (1) HR-1 (1) KTKIT (1) RH-5' (2) RH-6' (2) RH-8' (2) RH-10' (1) NYF-10' (1) ADZBAR-30	1	\$ 4,258.00	\$ 4,258.00
CIRCLE -D	PF51G/CUSTOM	JUNCTION BOX (2) 20amp TWIST LOCK (2) 20 amp DUPLEX OUTLETS	1	\$ 580.00	\$ 580.00
JUNKIN SAFETY	JSA-200B	SPLIT STOKES BASKET (Provided courtesy Chris Champagne of Greenwood)	1	\$ 972.00	
KOCHEK	SKE54R-H52	5" Storz x 4" NH Swivel Rocker Lug Female 30" Elbow	2	\$ 238.00	\$ 476.00
ZIAMATIC	SAC-44-E	FOLDING WHEEL CHOCKS	2	\$ 299.79	\$ 599.58
	SQCH-44-H	FOLDING WHEEL CHOCK HOLDER	2	\$ 101.12	\$ 202.23
	202444	CMC LADDER BELT	2	\$ 225.00	\$ 450.00
	202446	CMC LADDER BELT	2	\$ 225.00	\$ 450.00
TEMPEST - LEADER	TV400-081	VENTMASTER 572HD-16-DG.404	1	\$ 2,697.00	\$ 2,697.00
	TV415-001	VENTMASTER SPARE CHAIN 4046354 16" LOOP	1	\$ 275.00	\$ 275.00
RED HEAD BRASS	KBRC37-25FNHX15MNH	CHROME ADAPTER 2.5"F NH X 1.5" M NH	2	\$ 130.65	\$ 261.30
				CUST TOTAL	
					\$ 46,004.47

THIS QUOTE IS VALID FOR 30 DAYS AND DOES NOT INCLUDE SHIPPING COSTS OR ANY SUPPLIER INCREASES AT THE TIME OF PURCHASE