



Engine – 4
1993 E-One Protector
1250 GPM pump
750 Gallons of water
30 Gallons of foam



- Purchased for \$225,000
- Refurbished in 2016 for \$150,000
- The transmission is not easily repaired
- Parts are no longer available for the pump
- NFPA 1901 recommends replacement after 25 years of service (2018)



Engine – 2
2020 E-One EMAX
1500 GPM pump
750 Gallons of water
30 Gallons of foam

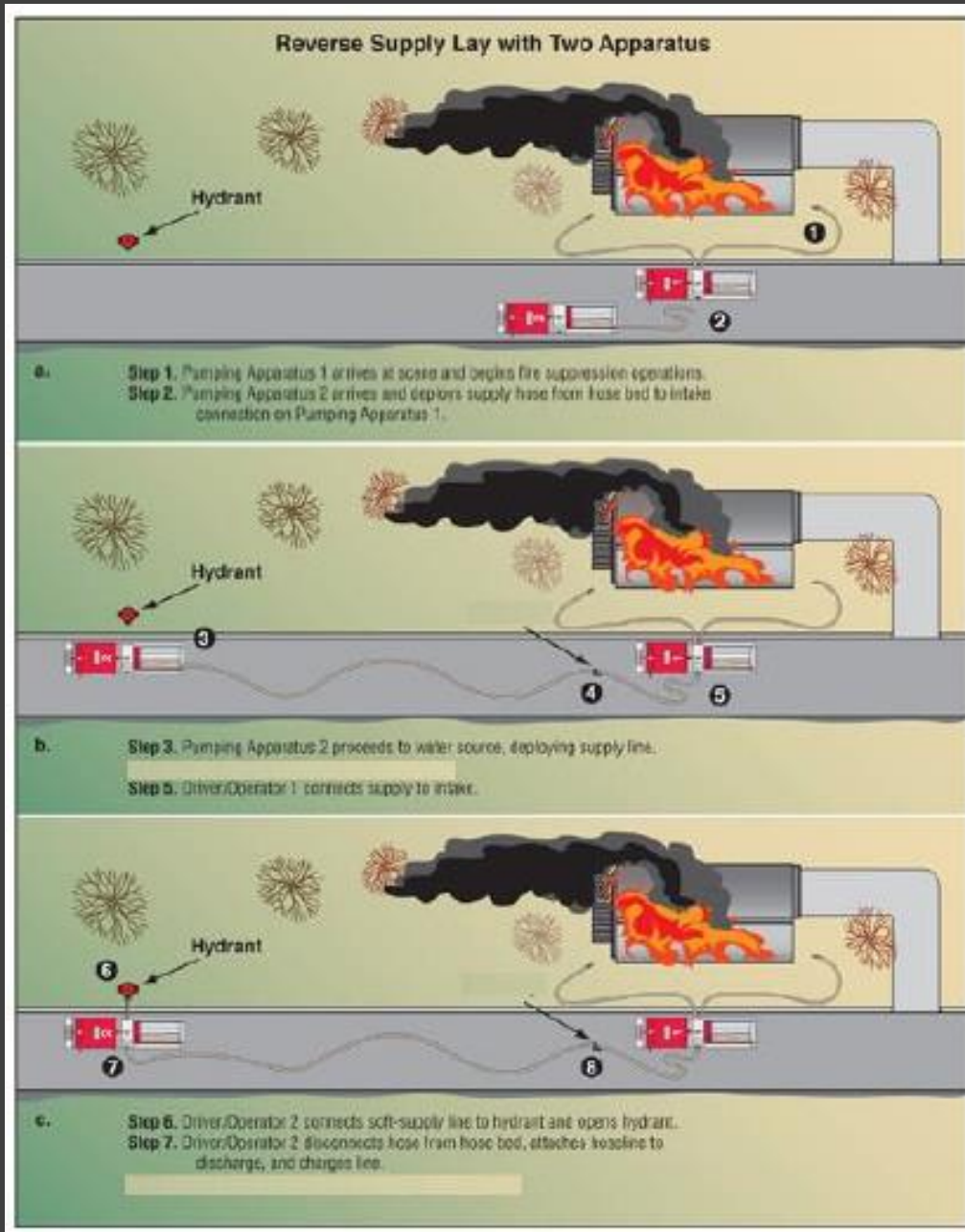


- Purchase and equip cost of \$805,000
- Mirror the design and layout of the 2020 EMAX
- Power plant, lighting, and pump meeting current NFPA standards
- Replacement allows for continued Versik (ISO) rating calculation (2024)
- Fire department deployment requires two pumpers

Why do we need two engines?

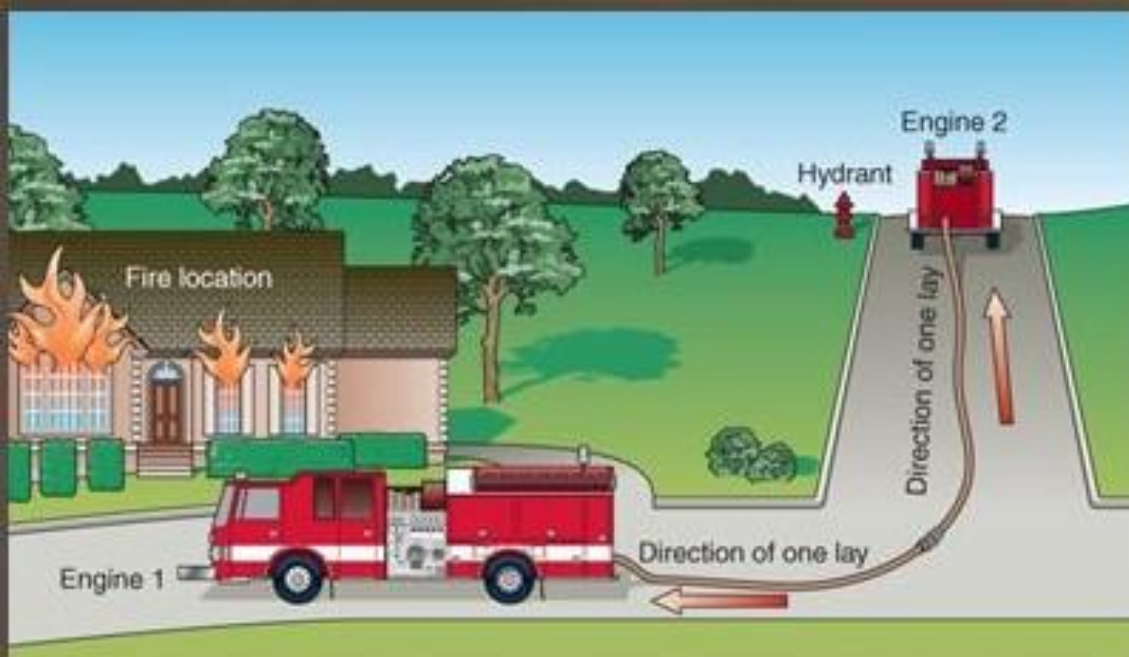
Standard Fire Attack

- First engine to the fire scene
 - Initiate Size-up
 - Rescue and or fire suppression
- Aerial ladder to the front of the building
 - Sets ladders for rescue, fire fighting, and ventilation
 - Ventilation and forcible entry
- Second engine establishes a water supply
 - Forward or reverse hose lay
 - Boosts hydrant pressure



Initial Water Supply

750 gallons of tank water



Attack Pump

- 1 $\frac{3}{4}$ " handline flows 150 GPM
 - 5 minutes of constant flow
 - 5-10 minutes of working time
- 2 $\frac{1}{2}$ " handline flows 300 GPM
 - 2.5 minutes of constant flow
 - 3-5 minutes of working time

Supply Pump With 5" Hose

- Efficient carrying capacity of 2,000 GPM
- Boosts hydrant pressure
- Connect inline for long distance relays

Tax Impact Estimate

**TOWN OF AYER
FISCAL YEAR 2022
ESTIMATED TAX RATE IMPACT STUDY**

Description	Residential Rate	CIP Rate	Res. Bill Increase	Com/Ind Bill Increase
FY2022 Actual	\$13.42	\$28.28	\$163	\$284
FY2022 + 62,000 Add'l Levy Increase	\$13.45	\$28.35	\$175	\$305
Impact of Levy Increase	\$0.03	\$0.07	\$12	\$21
FY2022 + 100,000 Add'l Levy Increase	\$13.47	\$28.39	\$183	\$318
Impact of Levy Increase	\$0.05	\$0.11	\$20	\$34
FY2022 Average Single Family Valuation	399,800			
FY2022 Median Com/Ind Valuation	310,700			