

RESOLUTION NO. 2020-117

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MARINA TO REQUEST THE REFUND OF \$200,000 AND APPLY THAT AMOUNT TO THE PURCHASE OF THE ROSENBAUER AVENGER FIRE ENGINE. TO PURCHASE THE AVENGER FIRE ENGINE USING THE 100% PRE-PAY OPTION AND AUTHORIZE THE FINANCE DIRECTOR TO MAKE NECESSARY ACCOUNTING AND BUDGETARY ENTRIES.

WHEREAS, a “type one” fire engine is designed and typically used by municipal fire departments for fighting structural fires; and

WHEREAS, Marina Fire Department has budgeted for a new Fire Engine in the Vehicle Replacement fund; and

WHEREAS, funding is provided for in the Vehicle Replacement Fund; and,

WHEREAS, after evaluating all available data, the Apparatus Specification Committee recommends the purchase of a type one fire engine manufactured by the Rosenbauer America (“Rosenbauer”) firm as the Rosenbauer engine meets or exceeds all the specification requirements of the Marina Fire Department; and

WHEREAS, the City of Marina is a member of Sourcewell, formerly the National Joint-Powers Agency (NJPA), a cooperative purchasing program to assist local government in reducing costs through a nationwide government-to-government procurement service; and

WHEREAS, staff has verified that the proposed agreement with Rosenbauer has properly utilized the Sourcewell bidding process which conforms to California law and City purchasing policies.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Marina does hereby;

1. Direct staff to request the refund of the \$200,000 deposit and apply that amount to the purchase of the Rosenbauer Avenger Fire engine, and;
2. Authorize the 100% Pre-Pay option to purchase the Avenger Engine, and;
3. Authorizing the City Manager to request a refund and apply that amount to the purchase of a Rosenbauer Avenger Engine on behalf of the City subject to final review and approval by the City Attorney, and;
4. Consider authorizing the Finance Director to make necessary accounting and budgetary entries.

PASSED AND ADOPTED by the City Council of the City of Marina at a regular meeting duly held on September 1, 2020 by the following vote:

AYES: COUNCIL MEMBERS: Berkley, O’Connell, Morton, Delgado

NOES: COUNCIL MEMBERS: None

ABSENT: COUNCIL MEMBERS: None

ABSTAIN: COUNCIL MEMBERS: None

Bruce C. Delgado, Mayor

ATTEST:

Anita Sharp, Deputy City Clerk

RESOLUTION NO. 2020-21

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MARINA AUTHORIZING THE PURCHASE OF A FIRE ENGINE BUDGETED FOR IN THE 2020/21 VEHICLE REPLACEMENT FUND AND AUTHORIZING THE ALLOCATION OF \$200,000 FROM UNASSIGNED REVENUES TO PLACE A REFUNDABLE DEPOSIT WITH ROSENBAUER TO SECURE A PRODUCTION SLOT TO PURCHASE AN ELECTRIC TYPE ONE FIRE ENGINE FROM ROSENBAUER AND AUTHORIZING THE FINANCE DIRECTOR TO MAKE NECESSARY ACCOUNTING AND BUDGETARY ENTRIES AND RETURN TO THE APRIL 21, 2020 COUNCIL MEETING FOR FINAL DIRECTION FROM COUNCIL APPROVING THE PURCHASE OF EITHER A ROSENBAUER ELECTRIC ENGINE OR A ROSENBAUER AVENGER ENGINE.

WHEREAS, a “type one” fire engine is designed and typically used by municipal fire departments for fighting structural fires; and

WHEREAS, Marina Fire Department has budgeted for a new Fire Engine in the Vehicle Replacement fund; and

WHEREAS, funding is provided for in the Vehicle Replacement Fund; and,

WHEREAS, after evaluating all available data, the Apparatus Specification Committee recommends the purchase of a type one fire engine manufactured by the Rosenbauer America (“Rosenbauer”) firm as the Rosenbauer engine meets or exceeds all the specification requirements of the Marina Fire Department; and

WHEREAS, the City of Marina is a member of Sourcewell, formerly the National Joint-Powers Agency (NJPA), a cooperative purchasing program to assist local government in reducing costs through a nationwide government-to-government procurement service; and

WHEREAS, staff has verified that the proposed agreement with Rosenbauer has properly utilized the Sourcewell bidding process which conforms to California law and City purchasing policies.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Marina does hereby;

1. Consider authorizing the purchase of a Fire Engine budgeted for in the 2020/21 Vehicle replacement fund; and
2. Consider authorizing the City Manager to execute a Letter of intent to purchase one (1) M91x eFire vehicle; and
3. Consider authorizing the allocation of \$200,000 from Unassigned Revenues to place a Refundable Deposit to secure a production slot with Rosenbauer to purchase a M92x e Fire Vehicle Type One Fire Engine; and,
4. Consider authorizing the Finance Director to make necessary accounting and budgetary entries; and,
5. Consider authorizing the City Manager to execute placement of a refundable deposit with Rosenbauer to secure the production slot on behalf of the City subject to final review and approval by the city attorney; and,
6. Return to the City Council Meeting within 90 days for final direction from Council to approve the purchase of either a Rosenbauer Electric Engine or a Rosenbauer Avenger Engine.

PASSED AND ADOPTED by the City Council of the City of Marina at a regular meeting duly held on March 3, 2020 by the following vote:

AYES: COUNCIL MEMBERS: Berkley, O'Connell, Morton, Delgado

NOES: COUNCIL MEMBERS: None

ABSENT: COUNCIL MEMBERS: Urrutia

ABSTAIN: COUNCIL MEMBERS: None

Bruce C. Delgado, Mayor

ATTEST:

Anita Sharp, Deputy City Clerk

EXHIBIT A

Status of General Fund Available Revenues, Fiscal Year 2019/20

General Fund Excess of Revenues Over/(Under) Expenditures (1,532,720)
(Page 8, General Fund, Column 9)

Add Back One-time Capital Transfers

Capital Transfers
(1) 3,935,300
Less: Recurring Roads
(2) (1,600,000)

Vehicle Transfer
(3) 812,000
Less: recurring
amounts (4) (507,000)

Less One-time Transfers
net 2,640,300

Unassigned Budgeted Revenues
19/20 1,107,580

Subsequent uses of General Fund Revenues since 7/1/2019

<u>Resolution #</u>	<u>Item</u>	
2019-39	Initial Purchase of Self Contained Breathing Appt.	(39,000)
2019-88	Formation Environmental - GSA	(274,780)
2019-90	IT Server Room	(14,025)
2019-97	Voting Rights - NDC Districting Consulting Grant supported	(34,500)
2019-103	SCBA	(190,233)
2020-Proposed	Fire Engine Deposit - Electric or Gas	(200,000)

Remaining Unassigned Revenues as of 1/31/2020 355,042

(1) Page 10, Summary of Transfers 3rd
grouping

(2) Page 122 #2 Annual Street Resurfacing, less \$120,000 for Flower Circle

(3) Page 10, Summary of Transfer, 4th
grouping

(4) Page 156, Vehicle replacement memo 19/20 purchases

Other Budget Resolutions since 7/1/19

<u>Resolution #</u>	<u>Item</u>	<u>Fund</u>	
2019-83	New Image Landscape	Landscape Districts	960
2019-87	Annual Street Project (5)	462	192,256
2019-89	Airport Runway Addition	555	46,130

(5) The bid over the engineer's estimate fell within budget, but was more than expected

New Grant Awards

2019-	Safer Grant - Annualized Grant Amount - First Year	381,468
2019 -	Safer Grant - SCBA purchase	159,368

Honorable Mayor and Members
of the Marina City Council

City Council Meeting
of March 3, 2020

RECOMMENDATION TO CONSIDER ADOPTING RESOLUTION NO. 2020-, AUTHORIZING THE PURCHASE OF A FIRE ENGINE BUDGETED FOR IN THE 2020/21 VEHICLE REPLACEMENT FUND AND AUTHORIZING THE ALLOCATION OF \$200,000 FROM UNASSIGNED REVENUES TO PLACE A REFUNDABLE DEPOSIT WITH ROSENBAUER TO SECURE A PRODUCTION SLOT TO PURCHASE AN ELECTRIC TYPE ONE FIRE ENGINE FROM ROSENBAUER AND AUTHORIZING THE FINANCE DIRECTOR TO MAKE NECESSARY ACCOUNTING AND BUDGETARY ENTRIES AND RETURN TO THE APRIL 21, 2020 COUNCIL MEETING FOR FINAL DIRECTION FROM COUNCIL APPROVING THE PURCHASE OF EITHER A ROSENBAUER ELECTRIC ENGINE OR A ROSENBAUER AVENGER ENGINE.

REQUEST:

It is requested that the City Council:

1. Consider authorizing the purchase of a Fire Engine budgeted for in the 2020/21 Vehicle replacement fund; and
 - a. Consider authorizing the City Manager to execute a Letter of Intent to purchase one (1) M91x eFire vehicle; and
 - b. Consider authorizing the allocation of \$200,000 from Unassigned Revenues to place a refundable deposit to secure a production slot for the purchase anM91x eFire vehicle Type One Fire Engine from Rosenbauer; and
2. Consider authorizing the Finance Director to make necessary accounting and budgetary entries; and
3. Return within 90 days to the City Council for final direction from Council to approve the purchase of either a Rosenbauer Electric Engine or a Rosenbauer Avenger Engine.

BACKGROUND:

One of the key public safety issues addressed by the City Council in the adoption of the budget for Fiscal Years 2019/20 and 2020/21 was the purchase of two new fire engines to replace old fire engines that needed to be put in either reserve status or retired. These engines are old and are operating past the normal expected service life.

The expected service life of a fire engine is twenty years, with ten years as a first out and ten years as a reserve. The City's current type 1 fire engines are:

- 2007 Ferrara Type 1 Engine (13 years old)
- 1998 Spartan/Ferrara Type 1 Engine (22 years old)
- 1994 Pierce Save Type 1 Engine (26 years old)

In January 2020 the City took delivery of a new Rosenbauer Avenger Type 1 Engine. This Engine is operating out of Station 1, the main fire station downtown.

The 2007 Ferrara Type 1 Engine was moved to provide for a second engine company now operating out of Station 2 at the airport fire station. The 1998 Spartan/Ferrara Type 1 and the 1994 Pierce Saver Type 1 have been moved into reserve status.

The Budget for Fiscal Year 2020/2021 allocated \$300,000 to begin the purchase and construction of a new Type 1 Engine to replace the 2007 Ferrara Type 1 Engine and the remaining funds for the engine would be budgeted in the Fiscal Year 2021/2022 budget.

ANALYSIS:

The acquisition of a fire engine is a major undertaking and the Engine Specification committee has done an outstanding job in the design of our newly delivered Rosenbauer Avenger Fire Engine.

For the next engine, the City of Marina has the opportunity to place an order for either an identical engine to Rosenbauer Avenger engine that we just took delivery of or place an order for a Battery/Electric Engine.

In a Technology Partnership with Volvo Penta and BMW, Rosenbauer has developed a Battery/Electric powered Fire Engine. If the Council approves the \$200,000 refundable deposit to secure a production slot for a Battery/Electric Engine, the Engine would be built during the second production run of the Battery/Electric Engines and we would expect delivery in the second quarter of 2022. Rosenbauer is the largest maker of fire engines in the world.

To see the Battery/Electric Engine, we traveled to the 2020 Fire House World conference where we able to spend time with the designers of the Concept Battery/Electric Fire Engine and was also able to take a ride in the Engine to observe and feel how the Engine performed.

During the development and design of the Concept engine, the designers started with a clean sheet of paper. The design and development took several years as the designers worked to seek answers to the essential questions of the future of Firefighting using Firefighting Megatrends and then design a Fire Engine using that information as a guide.

While it is not possible to predict what will happen the following day, studies and research can forecast how the world could change in the future and how living conditions could be designed. Rosenbauer's in-house think tank uses scientific principles and expert knowledge as well as the instruments of modern trend analysis and future studies. This addresses the question of which changes, trends, and megatrends shape the present and what conclusions can be drawn from them for the future. These megatrends were used as the basis and were compiled in the third version of their Firefighting Trend map by applying technological research, trend screenings, expert forums as well as study data.

The Firefighting Trend map allows thoughts on future events as well as technical and social changes that will impact fire departments and their organizations along with future technology, to be represented. The following topics are dealt with in the Firefighting Trend map:

Mobility, Individualization, Silver Society, Gender Shift, Connectivity, Health, Security, Neo Ecology, Knowledge Culture, Globalization, Urbanization, New Work and Migration.

With a clean sheet of paper and using the Firefighting Trend map for guidance, the Battery/Electric Concept Fire engine was designed. The Engine is designed to have a minimal

carbon footprint and is built with 98% recyclable materials and design factors to protect the health and safety of our firefighters. A partial listing of these design features are:

Optimized Ergonomics, Low removal heights, Low entry heights, Headroom, Lowerable chassis Ladder and roof box lowering device, Permanent All-Wheel Drive, Dynamic acceleration, Low center of gravity, Optimal weight distribution (50/50), High curve velocity, ESP with all-wheel drive, Hight adjustable chassis, Commander & Driver Cockpits, Large central screen, Simple Operation (ONE Button Operation), Remote control of vehicle functions, Integrated EMEREC application, Compact Dimensions, 93 in. width, Steered Rear Axle, Small turning circle (<40 ft) Electronic rear view mirror with increased field of vision, Driving assistance systems, Force Feedback System in the driver's seat, Rear cameras, Object recognition, Communication Team Cockpit – enhances optimal (non-verbal) communication, Good noise insulation in the cabin, Networked vehicle (WLAN Access Point), Integrated scene lighting (no shadows), High light intensity, Cornering light, Operational Suitability, High payload, More compartment space Integrated lifting platform, Flexible Manipulations System, Range Extender for unlimited operation using a Low emission BMW diesel engine, Remote diagnostics.

The Battery/Electric Engine has two batteries with a charge capacity of 100 kilowatt hours. This enables fully electric operation for roughly two hours which would cover 90% of our calls. Because NFPA requires the engine to be self-sufficient for at least 8 continuous hours, the engine comes with a range extender that gives the Engine virtually unlimited range. Rosenbauer has had an Electric engine in the States and in Canada for months and has not had to plug the engine in yet. Between regenerative braking and the generator, range has not been an issue. The Electric Fire Engine is an innovative tool that will help reduce noise and harmful diesel emissions while provide a flexible tool for firefighting and rescue operations from a technologically advanced platform.

The firefighting capabilities are comparable on both the Battery/Electric and the Avenger.

	Battery/Electric Engine	Avenger Engine
Power:	Electric	Diesel
Length:	28 Feet (Overall)	29.5 Feet (Overall)
Width:	92.5 Inches	120 Inches
Drive:	All Wheel	Rear Wheel
Steering:	All Wheel Steer	Front Wheel Steer
Superstructure:	Aluminum	Aluminum
Fire Pump:	1500 GPM	1500 GPM
Water Tank:	500 Gallons	500 Gallons
Hose:	700' 5" Hose	700' 5" Hose
	700' 2 ½" Hose	700' 2 ½" Hose
	600' 1 ¾" Hose	600' 1 ¾" Hose
	200' 1" Hose	200' 1" Hose
Lights:	Integrated Shadowless LED Lights	Side Mounted LED

Note: Both Engines has the capability to carry the same complement of Hose and Equipment.

Another feature of the Battery/Electric engine is the EMEREC application and the drone that is mounted on the Engine. The EMEREC application provides for Firefighter safety and accountability which allows the Incident Commander to track the firefighters on the fire ground along with providing pre fire plans and other critical information to be readily accessible to the

Incident Commander. The Drone will have the ability to be launched from the Engine and fly to the coordinates and provide real time video to responding units.

If the Council directs staff to proceed with the order of the Avenger, we have been offered financial incentives if we allow them to show the Avenger for up to 180 days. These financial incentives exceed \$23,459 for equipment that we would otherwise have to purchase. The completion date will be 360 days from time of order and delivery 90 days after that. We could expect delivery of the Avenger at the end of 2021.

The Battery/Electric Engine looks like our new Avenger and would be one of the first Battery/Electric Engines in California. The Los Angeles Fire Department will receive the first Battery/Electric Engine in Northern California. The acquisition of the Electric Engine could set an example for others in the region and state and affirm our commitment for climate protection and sustainability.

Staff will bring this item back to the City Council within 90 days for discussion and further direction on which of the two options to pursue.

Option 1. Confirm with Rosenbauer that we will purchase the Battery/Electric Engine for approximately \$1.4 million dollars, and they will keep our deposit which will be applied to the purchase price for delivery in 2nd Quarter of 2022. This engine will be built in Austria. If council does not approve the purchase of the Electric/Battery Engine, the \$200,000 deposit will be returned.

Option 2. Purchase the Rosenbauer Avenger for \$699,322.00. If council approves this option, we are requesting \$82,322 from unallocated funds due to the increase of Tariffs and raw material cost. To place this order, we would issue a Purchase order and would make the first of two payments after the Chassis is delivered, approximately 6 to 8 months from now. This engine is a twin engine to the one that we just took delivery of and will be built in Wisconsin.

The City of Marina is a member of Sourcewell, member number 27263. Sourcewell is a national municipal cooperative purchasing agency. The Rosenbauer fire engine has been competitively bid through Sourcewell which ensures that the City is receiving competitive pricing in accordance with the requirements of California law and City policies.

FISCAL IMPACT:

If the City Council approves the placing of a \$200,000 refundable deposit to secure a production slot for the Battery/Electric Engine, the funds will need to be moved from Unassigned Revenues to the Vehicle Replacement fund. There are sufficient funds for this action, please see **EXHIBIT A**. To cover the additional cost of the Engine, staff has been in contact with local, regional and state agencies who are promoting that all agencies start migrating towards more environmentally friendly means of operation. This action will give us 90 days to bring back funding options to cover the additional cost of the engine. If after the 90 days the Council decides to not go with the Battery/Electric engine, our deposit will be refunded.

If the Council approves the purchase of the Avenger Engine a price increase driven by increased Tariffs and raw material cost, we will be requesting an additional \$82,322 from Unassigned funds for a total of \$699,322 for the new engine. Staff has reviewed bids from two neighboring departments who are also buying Type 1 Engines. One of the bids was \$706,110 for a Type 1 Pierce and the other was for a Type 1 Hi-Tech at \$702,991. When the chassis is complete, an initial payment of \$278,000 will be due and the balance due upon delivery of the engine.

The City Council still has unbudgeted revenues available in the current budget to cover this additional budget appropriation as shown on **EXHIBIT A**, Status of General Fund Available Revenues. The display shows that there is still over \$500,000 available General Fund revenues in this year's budget.

This request is submitted for City Council consideration and possible action.

Respectfully submitted,

Doug McCoun
Fire Chief
City of Marina

REVIEWED/CONCUR:

Layne Long
City Manager
City of Marina

August 18, 2020

Item No. **11b**

Honorable Mayor and Members
of the Marina City Council

City Council Meeting
of September 1, 2020

**RECOMMENDATION TO CONSIDER ADOPTING RESOLUTION NO. 2020-,
DIRECTING THE PURCHASE OF A ROSENBAUER BATTERY/ELECTRIC
FIRE ENGINE OR REQUEST THE REFUND OF \$200,000 AND APPLY THAT
AMOUNT TO THE PURCHASE OF THE ROSENBAUER AVENGER FIRE
ENGINE. IF DIRECTED TO PURCHASE THE AVENGER FIRE ENGINE USE
THE 100% PRE-PAY OPTION AND AUTHORIZE THE FINANCE DIRECTOR
TO MAKE NECESSARY ACCOUNTY AND BUDGETARY ENTRIES.**

REQUEST:

It is requested that the City Council:

1. Provide direction to purchase the Rosenbauer Battery/Electric Fire Engine or request the refund of the \$200,000 deposit and apply that amount to the purchase of the Rosenbauer Avenger Fire engine.
2. Consider the 100% Pre-Pay option if directed to purchase the Avenger Engine.
3. Consider authorizing the City Manager to issue a purchase order for a Rosenbauer Battery/Electric Engine or request a refund and apply that amount to the purchase of a Rosenbauer Avenger Engine on behalf of the City subject to final review and approval by the city attorney.
4. Consider authorizing the Finance Director to make necessary accounting and budgetary entries.

BACKGROUND:

At the March 3, 2020 City Council Meeting Resolution 2020- 21 was approved authorizing the purchase of a Type One Fire Engine as identified in our Capital Improvement vehicle replacement plan. Council also authorized a \$200,000 refundable deposit on a Rosenbauer Battery/Electric Type One Fire Engine to secure a spot in the production line. The original timeline to issue a Purchase Order for the refundable deposit was 90 days. Because of the Pandemic and the uncertain economic times associated with the Pandemic, we asked for and received an extension to September 9, 2020.

The Budget for Fiscal Year 2020/2021 allocated \$300,000 from on-going General Fund revenue to begin the purchase and construction of a new Type 1 Engine and the remaining funds for the engine would be budgeted in the Fiscal Year 2021/2022 budget.

The discussion at the meeting was to pursue grant opportunities to help offset the additional approximately \$700,000 cost of the battery/electric engine. Staff has not been able to find any grant opportunities yet.

ANALYSIS:

Rosenbauer is an international company and one of the world's three largest producers of firefighting vehicles. Rosenbauer is a single-source manufacturer that builds its own chassis and pumps. For the Battery/Electric engine Rosenbauer has partnered with Volvo. Rosenbauer has over 150 years of continued manufacturing experience with over 2,300 employees worldwide and over 2,000 vehicles produced worldwide annually. In North America, Rosenbauer has over 65 years of continuous operations with over 600 employees. Rosenbauer shares cutting-edge global

technology with firefighters and is a leader in innovation with the ability to manufacture utilizing the latest 3D engineering programs.

Both the Battery/Electric and the Avenger meet the National Fire Protection Association (“NFPA”) 1901 Standard for Automotive Fire Apparatus. NFPA 1901 defines the requirements for new automotive fire apparatus and trailers designed to be used under emergency conditions to transport personnel and equipment and to support the suppression of fires and mitigation of other hazardous situations. Both Engines will meet the Department’s requirements and will provide the City over twenty years of reliable service.

The Battery/Battery/Electric Engine is designed to have a minimal carbon footprint and is built with 98% recyclable materials and design factors to protect the health and safety of our firefighters.

The firefighting capabilities are comparable on both the Battery/Electric and the Avenger Fire Engines.

	Battery/Battery/Electric Engine	Avenger Engine
Power:	Battery/Electric	Diesel
Length:	28 Feet (Overall)	29.5 Feet
(Overall		
Width:	92.5 Inches	120 Inches
Drive:	All Wheel	Rear Wheel
Steering:	All Wheel Steer	Front Wheel
Steer		
Superstructure:	Aluminum	Aluminum
Fire Pump:	1500 GPM	1500 GPM
Water Tank:	500 Gallons	500 Gallons
Hose:	700’ 5” Hose	700’ 5” Hose
	700’ 2 ½” Hose	700’ 2 ½”
Hose		
	600’ 1 ¾” Hose	600’ 1 ¾”
Hose		
	200’ 1” Hose	200’ 1” Hose
Lights:	Integrated Shadow less LED Lights	Side Mounted
LED		

Functionally the Battery/Electric Engine has the following improved capability:

- The Command Center inside with Main Control Panel Screen for the Incident and Crew
- Safety Cell, including Rollover Protection (The Cab)
- Force feedback system and electronic mirror system
- Intuitive Touch Screen
- Electric Drive along with Reduced Noise Levels for better communication
- All Wheel Drive
- Low center of gravity
- EMEREC application with the drone that is mounted on the Engine
- Better Agility & driving performance
- Tighter Turning Radius
- The engine is Narrower to allow maneuverability on narrow streets
- Better Ground Clearance
- Outstanding Ergonomics, lowers to 6“ when parked
- Higher loading capacity
- Highest vehicle safety

- Environmental friendly

FISCAL IMPACT:

The City of Marina is a member of Sourcewell, member number 27263. Sourcewell is a national municipal cooperative purchasing agency. The Rosenbauer fire engine has been competitively bid through Sourcewell which ensures that the City is receiving competitive pricing in accordance with the requirements of California law and City policies.

Differences in Battery/Electric Vs. Diesel

	Diesel	Battery/Electric	Difference
Acquisition	\$750,000	\$1,400,000	(\$650,000)
Estimated Fuel (Year)	\$8,750	\$2,500	\$ 6,250
Maintenance	\$5,000	\$1,500	\$3,500

Estimated operating Cost Savings over 20 years:

Fuel \$125,000 + Maintenance \$70,000 = \$195,000 Savings over 20 years.

After deducting the maintenance and fuel savings, the estimated additional cost of the Battery/Electric Engine is approximately \$455,000.

When the Council was considering the Battery/Electric Engine option in March 2020 prior to the COVID-19 impacts, the General Fund was anticipated to have an ongoing surplus of \$1.1 million annually. It was anticipated that the additional cost could be funded from General Fund surplus remaining in FY20/21 or from surplus from FY 21/22. The General Fund no longer has an ongoing surplus and the additional \$455,000 would have to be taken from unallocated General Fund reserves which are approximately \$5.0 million at this time.

The City also still needs to plan to budget for another fire engine that has ladder capabilities in the next couple years. This engine is expected to cost \$1.0 million dollars

The City can receive approximately a \$50,000 discount in the purchase price if the City pre-pays for the Avenger diesel fire engine. Staff recommends doing this option if council recommends moving forward with the diesel Avenger fire engine. The remaining amount to purchase this engine would be \$200,000 and this could be funded from unallocated reserve or the equipment replacement reserve. Either of these funds could potentially be replaced during the budget for FY 21/22 since \$500,000 for the purchase of the engine has already been built into the existing ongoing General Fund base. The current reserve balance of the Vehicle Replacement Fund is \$3.1 million.

This request is submitted for City Council consideration and possible action.

Respectfully submitted,

Doug McCoun
Fire Chief
City of Marina

REVIEWED/CONCUR:

Brian McMinn
Public Works Director
City of Marina

Eric Frost
Finance Director
City of Marina

Layne Long
City Manager
City of Marina