



COMMUNITY ASSET MANAGEMENT PROGRAM (CAMP)  
OUTREACH COMMITTEE

AGENDA  
WEDNESDAY, SEPTEMBER 1, 2021

CAMP OUTREACH VIRTUAL REGULAR MEETING – 6:00 PM

**TELECONFERENCE:**

MEETING PARTICIPATION INFORMATION CAN BE FOUND AT THE END OF THE  
AGENDA

ZOOM WEBINAR:

<https://us02web.zoom.us/j/82789940895>

Zoom dial in phone number:

1 669 900 6833

Meeting ID: 827 8994 0895

Dharana (Donna) Allen, Chair  
Jennifer Yeamans, Vice Chair  
Steven Dunbar, Committee Member  
Jill Farrell, Committee Member  
Dawn Argula, Committee Member  
Mark Palajac, Committee Member  
Steve Stamos, Committee Member  
Marco Torres, Committee Member

## 1. CALL TO ORDER

### ROLL CALL

Committee Member Marco Torres  
Committee Member Steve Stamos  
Committee Member Mark Palajac  
Committee Member Steven Dunbar  
Committee Member Jill Farrell  
Committee Member Dawn Argula  
Vice Chair Jennifer Yeaman  
Chair Dharana (Donna) Allen

## 2. CITIZENS FORUM

- In conformance with the Brown Act, no Committee action can occur on items presented during Citizens Forum.
- Please log into Zoom to provide written comments using Zoom Q&A during the Meeting.
- Comments are limited to a maximum of 500 words per person and will be read into the record by the meeting clerk.
- The Chair may reduce the amount of time based on the number of persons wishing to speak.

## 3. CONSENT CALENDAR

Consent Calendar items are considered routine and are acted upon by the Commission with a single action. Members of the audience wishing to provide public input must submit a comment using the Q&A feature when the chair announces the public comment period.

### 3.1 Approval of draft minutes from June 29, 2021

**Recommendation:**

Staff recommends the Committee approve the draft minutes.

**Attachments:**

[1. 2021-06-29 CAMP Outreach - DRAFT Minutes](#)

## 4. MATTERS FOR CONSIDERATION

### 4.1 Report from CAMP Outreach Committee Members

**Recommendation:**

Staff recommends the Committee hear reports from the CAMP Outreach Committee Members on what they have learned since the last meeting.

### 4.2 Discussion Regarding Asset Management Stakeholder Briefings

**Recommendation:**

Staff recommends the Committee discuss their progress with the Asset Management Stakeholder Briefings.

#### 4.3 Discussion Regarding Asset Management Fact Sheets

**Recommendation:**

Staff recommends the Committee discuss and give input on Asset Management Fact Sheets.

**Attachments:**

1. [Introductory Fact Sheet](#)
2. [Buildings Fact Sheet](#)
3. [Traffic Signal Fact Sheet](#)
4. [Bridges Fact Sheet](#)
5. [Drinking Water Fact Sheet](#)

#### 4.4 Discussion Regarding Asset Management Outreach Program Updates and Next Steps

**Recommendation:**

Staff recommends the Committee discuss outreach program updates and the next steps.

### 5. ADJOURNMENT

The next regular meeting will be held at a future date, time, and location to be determined by the CAMP Outreach Committee and noticed in accordance with the Brown Act.

#### HOW TO PARTICIPATE IN THE CAMP OUTREACH COMMITTEE MEETING:

**You can participate in the meeting in a number of ways:**

Participants may submit comments prior to the meeting. Written comments or materials may be submitted by the public to the City of Livermore Public Works Department via email at [assetmanagement@cityoflivermore.net](mailto:assetmanagement@cityoflivermore.net). Items received by 12:00 noon on the day of the meeting will be provided to the Committee and will be available on the meeting agenda at <https://www.cityoflivermore.net/citygov/clerk/archive/default.htm> prior to the meeting. These items will not be read into the record.

**eComments** may be submitted by the public using the eComment link [here](#). Comments may be up to 1000 characters in length and will be accepted up until 4PM the day of the meeting. These items will NOT be read into the record and are viewable by the the Committee and the public upon submittal.

During the meeting, the Citizen's Forum agenda item is an opportunity for the public to speak regarding items not listed on the agenda. Speakers may also provide comments on any item listed on the agenda. Speakers are limited to a maximum of 500 words per person, per item. The Committee is prohibited by State law from taking action on any items that are not listed on the agenda. However, if your item requires action, the Committee may place it on a future agenda or direct staff to work with you and/or report to the Committee on the issue.

**Submission of comments during the meeting:**

To have your public comment read at the meeting, please enter your comment in Zoom Q&A when the item is opened, and the meeting clerk will read your comments into the record during the public comment portion of the meeting.

For questions regarding the Community Asset Management Program Committee, please contact

Management Analyst II Debbie Bell at (925) 960-8024.

PURSUANT TO TITLE II OF THE AMERICANS WITH DISABILITY ACT (CODIFIED AT 42 UNITED STATES CODE SECTION 12101 AND 28 CODE OF FEDERAL REGULATIONS PART 35), AND SECTION 504 OF THE REHABILITATION ACT OF 1973, THE CITY OF LIVERMORE DOES NOT DISCRIMINATE ON THE BASIS OF RACE, COLOR, RELIGION, NATIONAL ORIGIN, ANCESTRY, SEX, DISABILITY, AGE OR SEXUAL ORIENTATION IN THE PROVISION OF ANY SERVICES, PROGRAMS, OR ACTIVITIES. TO ARRANGE AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS PUBLIC MEETING, PLEASE CALL (925) 960-4200 (VOICE) OR (925) 960-4104 (TDD) AT LEAST 72 HOURS IN ADVANCE OF THE MEETING.

THE COMMUNITY ASSET MANAGEMENT PROGRAM OUTREACH COMMITTEE AGENDA AND AGENDA REPORTS ARE PREPARED BY CITY STAFF AND ARE AVAILABLE FOR PUBLIC REVIEW A MINIMUM OF 72 HOURS PRIOR TO THE COMMITTEE MEETING. THE AGENDA IS POSTED ON THE COMMUNITY BULLETIN BOARD IN FRONT OF THE MAINTENANANCE SERVICE CENTER AND IS AVAILABLE ONLINE AT [WWW.LIVERMOREASSETS.NET](http://WWW.LIVERMOREASSETS.NET).

UNDER GOVERNMENT CODE § 54957.5, ANY SUPPLEMENTAL MATERIAL DISTRIBUTED TO THE MEMBERS OF THE COMMUNITY ASSET MANAGEMENT PROGRAM OUTREACH COMMITTEE AFTER THE POSTING OF THIS AGENDA WILL BE AVAILABLE FOR PUBLIC REVIEW AT THE MAINTENANCE SERVICE CENTER.



**COMMUNITY ASSET MANAGEMENT PROGRAM (CAMP)  
OUTREACH COMMITTEE**

**REGULAR MEETING  
Tuesday, June 29, 2021, 4:00 PM  
Minutes**

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**1. CALL TO ORDER**

The meeting was held virtually using Zoom and called to order by Vice Chair Yeamans at 4:00 p.m.

**ROLL CALL**

Committee Members

Steve Stamos  
Mark Palajac  
Jill Farrell  
Steven Dunbar  
Dawn Argula  
Vice Chair Jennifer Yeamans

Marco Torres joined at 5:16 p.m.

Absent

Chair Donna Allen – excused  
Nicol Williams-Pruitt – resigned 6/29/21

Staff Present

Debbie Bell, Management Analyst II  
Kathy Hughes, Administrative Assistant  
Scott Lanphier, Public Works Director  
Andy Hall, Asset Management Specialist  
Natalie Croak, WR Communications Representative

Joan Chaplick, MIG  
Tim Carroll, MIG  
Noé Noyola, MIG

**2. CITIZENS FORUM**

## ITEM 3.1 - ATTACHMENT 1

Chair Allen asked Staff Liaison Debbie Bell to explain the public comments process for the meeting. Ms. Bell explained that the meeting was taking place using the Zoom platform and being conducted pursuant to provisions of the Brown Act and recent Executive Orders by the Governor to facilitate teleconferencing to reduce the risk of COVID-19 transmission at public meetings. An opportunity for public comments would be provided for each agenda item. Comments were to be submitted using the Zoom Q&A feature. Comments using the Chat feature would not be accepted. Comments were limited to one per person for each agenda item. Each comment should begin with the agenda item number and were limited to no more than 500 words. She explained that if more than one comment was submitted by a single person for a single item, only the last statement would be read into the record. The public comment period for each item would end when the Chair closes the comment period, and no additional comments would be read for that item.

There were no public comments for items not on the agenda, and the item was closed.

### 3. CONSENT CALENDAR

#### 3.01 Approval of draft minutes from May 5, 2021

ON A MOTION FROM COMMITTEE MEMBER ARGULA, SECONDED BY COMMITTEE MEMBER STAMOS, CARRIED ON A 5-0 VOTE, THE MAY 5, 2021 MINUTES WERE APPROVED AS SUBMITTED.

### 4. MATTERS FOR CONSIDERATION

#### 4.01 Discussion on Community Connections Stakeholder Presentation and Logistics

Debbie Bell thanked the Committee members for attending. She told them that focus for this meeting would be entirely on getting the committee members ready and comfortable to share information about the Asset Management Program with their peers. She reminded the committee that the meeting was being recorded, and they would be able to go back and listen to the presentation and refer to it before they do their own presentations. She explained that MIG would walk the committee through the updated presentation. She said that some requested changes had been made, while others had not. She said they would explain their strategy on the updates later and ask for input. She said after the presentation they would discuss tips and tricks on how to feel comfortable giving the presentation or dealing with difficult questions. She said they also developed a spreadsheet to assist the committee with looking up how to contact potential stakeholder groups and logging the results of the meeting.

## ITEM 3.1 - ATTACHMENT 1

Noé Noyola spoke to the committee about the upcoming presentation. He told them that they aren't expected to be experts on asset management and that the presentation is meant to be a broad overview of the program and the issues we are facing and the strategies that we are proposing to address the problems. He said the goal is to get feedback from the community on whether they support the proposed strategies.

Tim Carroll gave a 12-minute stakeholder presentation, as if he were presenting in front of a community group. Noé mentioned that there were different options at the end of the presentation, depending on who the committee was presenting to, and how much time they had. He said the slide pertaining to potential options and solutions would allow some flexibility to the committee members. Depending on time, they could go through the options one at a time and discuss each, or just spend a little time clarifying each option and then have the stakeholders go right to the Mentimeter poll and rank their choices there. He then asked the committee for feedback or comments.

Debbie Bell reminded the committee that several had asked that additional slides be added to address detailed information. She told them that it was discussed and decided that there would be an ongoing Frequently Asked Questions (FAQ) list provided to the committee members to help address specific issues. This was done to keep the presentation at a broader level. They feared that getting too detailed and giving too much information would cause the stakeholders to lose interest, since many of them are new to asset management.

Vice Chair Yeamans asked for clarifying questions regarding the presentation first. There weren't any, and the item was then opened for public comments. There were none, and the item was then closed for public comments. Vice Chair Yeamans then opened the item for discussion to the committee.

Committee member Palajac anticipated that he would get questions on what percentage of the general fund budget does the \$10 million replacement number represents. Debbie Bell said it was a little less than 10% of the overall general fund budget, and that she would include that information in the FAQ. Committee member Palajac asked if the City has been budgeting and spending around \$10 million per year on asset replacement. Ms. Bell said that it was the average of what's been spent over the past several years.

Committee member Argula asked for clarification on Mentimeter poll information on the last slide and asked if the poll was supposed to take place during the actual presentation. Mr. Noyola said that it is flexible. If you have the time, you could walk through the options and have them take the poll during the meeting, or you could walk them through the options quickly and have them take the poll after the meeting. Committee member Argula suggested that there be examples for each of the potential options and solutions. Ms. Bell said she could add them to the FAQ so that all committee members had the answers as well as the

### ITEM 3.1 - ATTACHMENT 1

common nomenclature. Committee member Argula then asked if the assets had been inventoried to come up with the dollar amount. Ms. Bell said the City and consultants physically inventoried and analyzed most of the assets to provide the estimates, and she would provide more information the FAQ list. She told the committee that our data is getting better every day because we are collecting more data every day. She said that there are currently consultants walking every square foot of sidewalk in the City documenting any lift or cracks they find. She also warned that the numbers are going to get larger as more data is collected.

Committee member Dunbar said the FAQ is more appropriate than adding extra slides and he was thankful for the work involved in putting it together.

Committee member Stamos felt that some of the options and solutions were more realistic than others, and he wondered if the average citizen would be able to capture the differences in their responses. Ms. Bell agreed and explained we will need to proceed with most options and not choose only one. She said the team was open to suggestions on how better to address the options and solutions. Mr. Noyola said that being vague was ok, because we aren't looking to make decisions immediately, we are just looking for feedback.

Committee member Palajac suggested they go through the online poll together. He also felt that some of the options have a very limited benefit. He said he thinks going after grant money might be difficult given that so many other organizations will be going after the same money. He said to put the \$30 million shortfall into perspective, that would equate to \$840 per year of additional taxes per household. Vice Chair Yeamans thought that was a good baseline, because ultimately that is how people are going to look at where the money will come from. Ms. Bell agreed that breaking it down per household makes it more relatable. Joan Chaplick pointed out that because the committee is so well informed, they already know that some of the choices aren't viable on their own. She said that the public isn't as informed, and if they don't see choices like "explore new grant options" or "sell or transfer some assets" they might feel like the committee missed something. Committee member Stamos said he feels the options and solutions list is good, he was just thinking in terms of what kind of feedback we would get on the polls. He also said he's heard about Smart City grants and wondered if some of infrastructure issues would fall under the umbrella of those grants. Ms. Bell said she was aware of them and said the City would be looking into and cautioned that while that money would help, it wouldn't fix the infrastructure problem entirely. She asked that committee members pass along information on any grants they hear of.

Vice Chair Yeamans wanted to know if the poll would capture the results automatically or if that was something the committee members would need to do. Mr. Noyola shared the poll with the committee. The first question is a Council district map to indicate where the respondent resides. It then asks the participant to rank the strategies in the order they would encourage the City to pursue. It



### ITEM 3.1 - ATTACHMENT 1

then gives the option to suggest other strategies for the City to pursue. He said the participants will not be able to see immediately view results, but they are emailed. Ms. Bell explained the email shows a chart and how many people ranked each item as their first choice, etc. She said committee members will not need to do anything to compile results. Committee member Palajac said he thought people would ask what the City planned to do with the information it collects from the poll. He said he assumed the information would be provided to City Council so that they can use it to make informed decisions on how to proceed. Ms. Bell said that she planned on updating the Council on a regular basis. Committee member Palajac asked if the Council was already aware of the options that we are asking people to rank. She said they were informed of the questions before they were developed and also the initial results of the survey from last summer. She said that we would be able to show any notable differences between the results from last summer and the results we will get from the new poll. Committee member Palajac asked if the feedback portion of the poll was looking for anything specific. Ms. Bell said they are hoping that people put other options or feedback on why they ranked items in the order they did.

Vice Chair Yeamans said there were a lot of choices in the options and solutions slide, and that she'd like to see less options, maybe seven or eight. She asked if it would be possible to add a slider that you could slide from one to ten with "expend less effort on maintenance," "increase revenues," and "keep doing what we are doing" as scalable options. She felt it would force people to make a choice and would give us more information to share with Council. Mr. Noyola said it would be possible, but the hard part would be figuring out how to phrase the language for the question. Vice Chair Yeamans said it would be nice to give people the option of skipping a question if they don't understand what's being asked. Mr. Noyola said they initially had a few more questions, but they felt time was an issue. If the poll is being taken in person at your presentation, you'd want to get through it quickly so having the one question would have them focus on the most important thing, which is to prioritize the solutions.

Ms. Bell then moved the discussion to how to facilitate a stakeholder meeting. Mr. Noyola said he wanted to give the committee tips and tricks and best practices to use when presenting the PowerPoint. He felt the best way to do it was to ask Ms. Chaplick questions, and he encouraged the Committee to ask her questions as well. He asked Ms. Chaplick to explain how to respond to someone that was unpleasant or challenging you on your presentation. She said the best thing to do is remind the person that you are a volunteer representing the City and are there to share information with them. If someone is negative, about a specific point, you can ask them to help you understand their question or ask them for clarity on what they need. If you aren't sure how to help you can tell them, you will share their concerns with Ms. Bell and have her get back to them with more information. If someone says they have information that is contrary to what you are presenting, ask them to send you that information. If someone has a question that you don't have an answer for, tell them you'll speak with staff and

## ITEM 3.1 - ATTACHMENT 1

get back to them with more information. If there is a dominant person in the room that is monopolizing the conversation, it's ok to wait for a break in speaking, and then tell them that you appreciate their comments, but you'd like to open the conversation and give others a chance to comment or ask questions. If someone goes off topic and the meeting is going over the time limit, thank them and tell them that while they seem to be very knowledgeable on the subject, not everyone is on that level and it might be better to stick to the broader information. Ms. Chaplick suggested the committee members set up a Zoom practice session for themselves before they give the presentation to a stakeholders group.

Ms. Bell told the committee that the goal was to make the committee members as comfortable as possible in giving the presentation. She's created a Google sheet and given them access to it. She took information the committee members provided, and used other City lists, to come up with a database of groups and contact information the committee members can access to schedule stakeholder meetings. She said the list will continue to evolve as more groups and contact information is added. She said that her hope is that each committee member will be able to connect to a few groups. She asked that each member do two to three presentations. She suggested partnering with another committee member if they weren't comfortable doing the presentation alone. She said that the meetings could be via Zoom or in person (depending on COVID restrictions). Once a committee member has scheduled and given the presentation, Ms. Bell asked that they go back into the Google document and click on the "completed presentation" tab and update the columns (i.e., notes, number of attendees, date, etc.). There are also columns for each of the options and solutions from the PowerPoint. She asked that if they receive specific information or questions on any of them, to please update the column. Ms. Bell will use this information to update Council. There is also a FAQ tab. Mr. Noyola asked the committee members to update the FAQ tab with any new questions they are receiving.

Ms. Bell said they will update the Mentimeter Poll and the PowerPoint presentation with the comments from this evening and distribute it to the committee members so they can begin the outreach.

Committee member Palajac said it would be helpful to have a list of the values of the larger groups of assets. Ms. Bell said she would add that information to the FAQ sheet. Vice Chair Yeamans said that the [www.livermoreassets.net](http://www.livermoreassets.net) website is also a good place to direct people because it has all the information available, and people can explore in their own time and sign up for email updates.

Ms. Bell reminded the committee members that the meeting was recorded and will be available for them to use to review before giving a presentation.

## 5. ADJOURNMENT

**ITEM 3.1 - ATTACHMENT 1**

THE MEETING WAS ADJOURNED AT 5:45 P.M. TO THE NEXT REGULAR MEETING TO BE HELD AT A FUTURE DATE, TIME, AND LOCATION TO BE DETERMINED.

DRAFT

# Shining a Light on Our Shared Infrastructure

Did you know that you own a lot of Livermore? Roads, retaining walls, storm drains, streetlights, parks, and public buildings—they all belong to you. Altogether, Livermore’s community-owned assets are worth over \$3 billion.

The City’s job is to take care of it all. We call that asset management: caring for our shared assets so that they last for future generations.

Asset management is a lot like taking care of a home or a car, just at a much larger scale. Your home and your car both need regular upkeep to stay running smoothly, and eventually they need significant repairs or replacements, like a new roof or a new transmission. The same is true for our City assets, which must be repaired or replaced when they reach the end of their lifespan. Asset Management is all about making strategic decisions about how to spend our limited budget throughout that process.

## What is Asset Management?

Asset management is a methodical way to plan for the maintenance and replacement of community-owned property and infrastructure.

The basic steps include:

- 1 Understand what you own and what condition it is in.
- 2 Figure out what needs to be done, when, and for what cost.
- 3 Develop policies to match available funding with the desired quality of service.



## Livermore’s community-owned assets include:

-  **Buildings**
-  **Pavement**
-  **Bridges**
-  **Sidewalks**
-  **Sidewalk Access Ramps**
-  **Curbs and Gutters**
-  **Trails**
-  **Streetlights**
-  **Traffic Signals**
-  **Traffic Signs**
-  **Landscape Areas**
-  **Parks and Plazas**
-  **Trees**
-  **Walls and Fences**
-  **Las Positas Golf Course**
-  **Livermore Municipal Airport**
-  **Stormwater System**
-  **Drinking and Recycled Water System (Livermore Municipal Water)**
-  **Wastewater (Sewer System)**

You can learn more about individual assets in our Asset Spotlights series at [LivermoreAssets.net/documents](https://livermoreassets.net/documents).

## The Livermore Asset Management Program

The Livermore Asset Management Program is dedicated to finding long-term solutions to keep our assets strong—including working with the public to identify priorities and exploring innovative ways to reduce costs and address funding challenges.

That’s the goal of the **Livermore Asset Management Program**—to make the best use of our funding to keep our shared assets safe and secure.

### Core Considerations

#### Equity

We want to ensure that our asset management priorities benefit the entire community, with additional emphasis on historically under-resourced infrastructure.

#### Sustainability

Our decisions must be made not only to meet today’s needs but also looking toward the future with the goal of keeping our assets and our economy strong for coming generations.

#### Transparency

We strive to be open and transparent in our decision making, keeping the community informed along the way and providing ample opportunities for public input.



Learn more about the Livermore Asset Management Program at [LivermoreAssets.net](https://livermoreassets.net).

Share your thoughts:  
[assetmanagement@cityoflivermore.net](mailto:assetmanagement@cityoflivermore.net)

**SPOTLIGHT ON: PUBLIC BUILDINGS**

The City of Livermore owns and manages more than 40 buildings throughout the City that are supported by the General Fund. These buildings include libraries, fire stations, police facilities, maintenance centers, administrative offices, and other community service buildings.

Currently, City buildings have an overall health grade of “C”. This grade is based on the physical and financial conditions of the buildings. It tells us that while some assets are in poor condition, the buildings are generally in decent shape. It also tells us there are funding shortages for repair and replacement activities.

**Quick Facts**

|   |                 |
|---|-----------------|
| <b>Number of Buildings:</b>                 | <b>42</b>       |
| <b>Individual Assets:</b>                   | <b>29,116</b>   |
| <b>Asset Value:</b>                         | <b>\$131.4M</b> |
| <b>Cost to Repair/ Replace all Assets:</b>  | <b>\$165M</b>   |
| <b>Annualized Repair/ Replacement Cost:</b> | <b>\$3.8M</b>   |
| <b>Asset Health Grade:</b>                  | <b>C</b>        |

**What kind of buildings does the City own?**

The City divides its public buildings into three categories, based on the type of service the building supports. Buildings that have dedicated funding sources (like the Airport and Water Reclamation Plant) are not included in this public building inventory.

**Essential Facility**

Provides core services that the City needs to function.

**17 BUILDINGS**



*City Hall*

**General Use Facility**

Enhances quality of life and provides benefits for all.

**10 BUILDINGS**



*Civic Center Library*

**Specific Use Facility**

Provides benefits for a limited number of people.

**15 BUILDINGS**



*Hagemann Ranch*

This fact sheet is part of the Asset Spotlights series. Find more at [www.LivermoreAssets.net/documents](http://www.LivermoreAssets.net/documents)



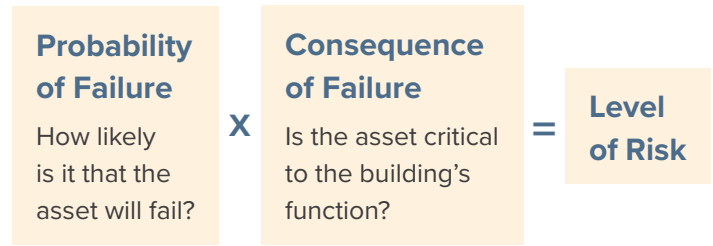
## ITEM 4.3 - ATTACHMENT 2

### Asset Analysis

Every City building is made up of hundreds of parts—walls, windows, roofs, plumbing, lights, wiring, etc. We call those pieces “assets,” and each asset must be maintained, repaired, and eventually replaced.



The City keeps careful tabs on each asset and calculates its **Level of Risk** based on the following formula:

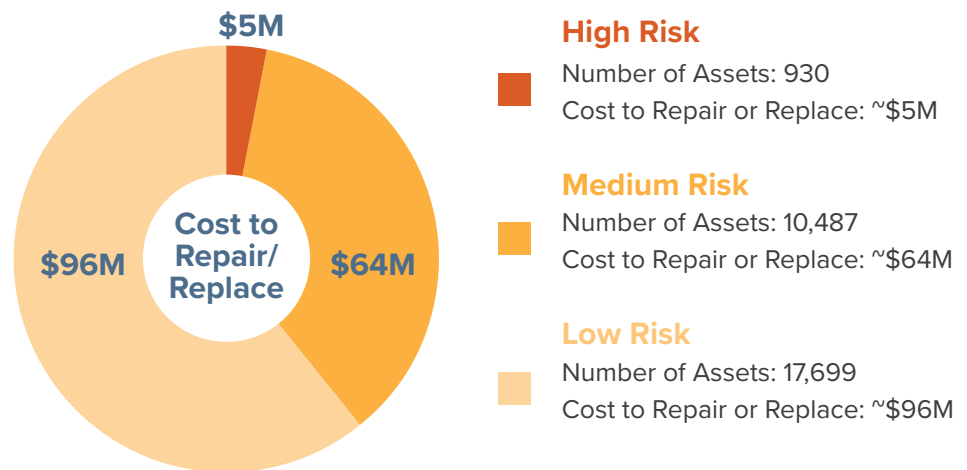


For example: An outdated electrical system in a fire station has a much higher Consequence of Failure than a broken water fountain in a library.

### Current Level of Risk

This graph shows the current Level of Risk for all the assets in City buildings, along with the estimated cost to repair or replace.

Over time, more assets will enter the High Risk category as they age.



### Catch Up and Keep Up

The City grades replacement and rehabilitation costs in two ways: “Catch Up” and “Keep Up”.

**Catch Up** refers to the immediate costs to repair or replace critical High Risk assets.

**Keep Up** refers to the cost of subsequent repair and replacement needs over time.

#### Catch Up Grade: F Keep Up Grade: A

Why are these grades so different? It means that right now the City cannot afford to repair or replace all of the current High Risk assets; however, if those “Catch Up” needs could be met, there is likely to be adequate funding for future “Keep Up” work.

Learn more about Livermore’s Asset Management Program at [LivermoreAssets.net](http://LivermoreAssets.net)





## SPOTLIGHT ON: TRAFFIC SIGNALS

The City owns and operates more than 100 signalized intersections which are vital in maintaining the flow and safety of traffic throughout Livermore. All together, the City has over \$55 million dollars-worth of traffic signals and related equipment. Each of these signals requires constant monitoring and monthly maintenance.

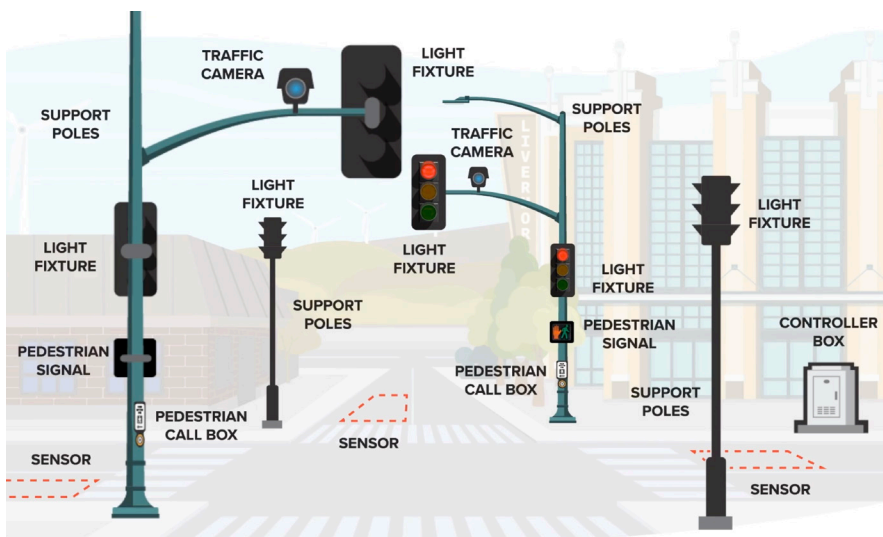
Currently, signalized intersections have an Asset Health Grade of “C”. The asset grade is an average of the Physical Health score of “A” and the Financial Health Grade of “F.” It tells us that while most signals are in good condition, there will be funding shortages for future repair and replacement activities.

### Quick Facts

|   |           |
|---|-----------|
| <b>Number of Signalized Intersections:</b>          | 108       |
| <b>Individual Assets:</b>                           | 6,800     |
| <b>Asset Value:</b>                                 | \$55M     |
| <b>Cost to Replace One Signalized Intersection:</b> | \$450,000 |
| <b>Cost to Repair/Replace all Assets:</b>           | \$56M     |
| <b>Annualized Repair/Replacement Cost:</b>          | \$2M      |
| <b>Asset Health Grade:</b>                          | C         |

### What are the individual parts of a traffic signal?

A signalized intersection can include dozens of individual assets, including signal poles, signal heads, detection systems, service cabinets, pedestrian push buttons, fiber and wireless interconnects, and many other elements.



#### Did you know?

The first traffic signal in Livermore was activated on June 26, 1951 at the intersection of First and L Streets.



This fact sheet is part of the Asset Spotlights series. Find more at [www.LivermoreAssets.net/documents](http://www.LivermoreAssets.net/documents)



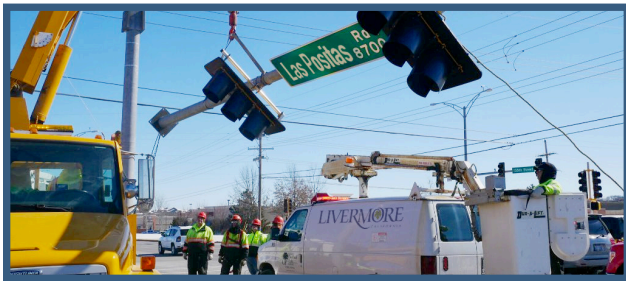


# ITEM 4.3 - ATTACHMENT 3

## Asset Analysis

Every signalized intersection is made up of dozens of parts—poles, signal heads, detection systems, controllers, etc. We call those pieces “assets,” and each asset must be maintained, repaired, and eventually replaced.

The City keeps careful tabs on each asset and calculates its **Level of Risk** based on the formula on the right.



## Level of Risk

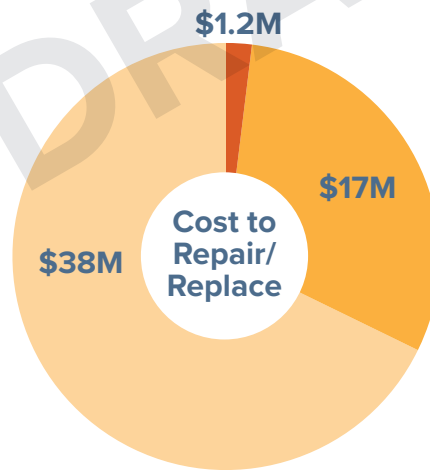


Example: A signal head has a higher Consequence of Failure (CoF) than a closed-circuit camera. And a traffic signal in a high traffic area has a higher CoF than a remote intersection.

## Current Level of Risk

This graph shows the current Level of Risk for all signal light assets, along with the cost to repair or replace.

Over time, more assets will enter the High Risk category as they age.



- High Risk**  
Number of Assets: 177  
Cost to Repair or Replace: ~\$1.2M
- Medium Risk**  
Number of Assets: 1,914  
Cost to Repair or Replace: ~\$17M
- Low Risk**  
Number of Assets: 4,736  
Cost to Repair or Replace: ~\$38M

## Catch Up and Keep Up

The City grades any replacement and rehabilitation costs in two ways: “Catch Up” and “Keep Up.”

**Catch Up** refers to the immediate costs to repair or replace critical High Risk assets. **Grade: F**

**Keep Up** refers to the cost of subsequent repair and replacement needs over time. **Grade: F**

Why are these grades so low? Given the recent average budget for signal repairs, the City will not be able to afford to repair or replace all of the current High Risk assets. Additionally, there will be funding shortages for future repair and replacement activities.

Learn more about Livermore’s Asset Management Program at [LivermoreAssets.net](http://LivermoreAssets.net)



## SPOTLIGHT ON: BRIDGES

The City of Livermore owns and manages 44 bridges which are integral pieces of the City’s transportation infrastructure. These assets include **32 vehicle bridges** and **12 trail bridges** which serve a mix of pedestrians, bicyclists, and equestrians. This does not include bridges managed by Livermore Area Park and Recreation District, Caltrans, or the Las Positas Golf Course.

Currently, City bridges have an average Asset Health Grade of “C.” This grade tells us that although our bridges are in good condition with a Physical Health score of “A,” the Financial Health Grade of “F” means that there are funding shortages for repair and replacement activities.

### Quick Facts

|                                     |           |
|-------------------------------------|-----------|
| Number of Bridges:                  | 44        |
| Individual Assets:                  | 377       |
| Asset Value:                        | \$168.6M  |
| Annualized Repair/Replacement Cost: | \$4.3M/yr |
| Asset Health Grade:                 | C         |

## Superstructure and Substructure

City bridges are organized first by bridge type—vehicle or trail—then by location. Once that has been determined, the individual bridges are organized by **superstructure** (above the ground, span of the bridge) and **substructure** (in-ground, supports the superstructure). Examples of superstructure elements include bridge decks, guardrails, etc. Substructure elements include culverts, abutments, walls, etc.



This fact sheet is part of the Asset Spotlights series. Find more at [www.LivermoreAssets.net/documents](http://www.LivermoreAssets.net/documents)



# ITEM 4.3 - ATTACHMENT 4

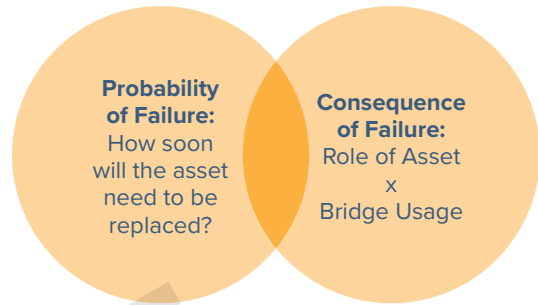
## Asset Analysis

Every bridge is made up of dozens of parts—culverts, abutments, decks, rails, etc. We call those pieces “assets,” and each asset must be maintained, repaired, and eventually replaced.

The City keeps careful tabs on each asset and calculates its **Level of Risk** based on the formula on the right.



## Level of Risk

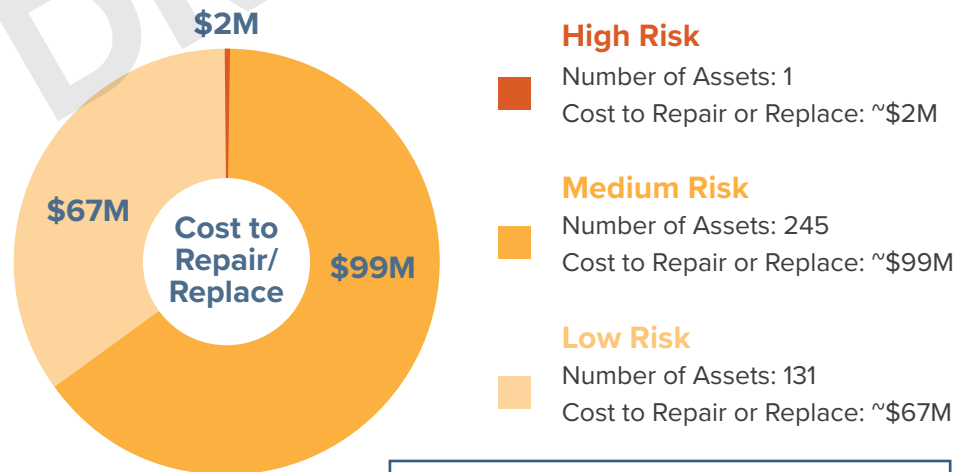


Example: A damaged culvert on a high-use roadway bridge would receive a higher Consequence of Failure rating than a broken gate on a trail bridge.

## Current Level of Risk

This graph shows the current Level of Risk for all the assets in City bridges, along with the estimated cost to repair or replace.

Over time, more assets will enter the High Risk category as they age.



**Physical Health Score: A**  
Our bridges are currently in good condition.

## Catch Up and Keep Up

The City grades replacement and rehabilitation costs in two ways: “Catch Up” and “Keep Up.”

**Catch Up** refers to the immediate costs to repair or replace critical High-Risk assets. **Catch Up Grade: F**

**Keep Up** refers to the cost of subsequent repair and replacement needs over time. **Keep Up Grade: F**

The poor Catch Up and Keep Up grades are due to the high cost of bridge replacement and the relatively low annual rehabilitation budget for bridges. Right now the City cannot afford to repair or replace all of the current High-Risk assets and there won't be adequate funding for future needs.

Learn more about Livermore's Asset Management Program at [LivermoreAssets.net](http://LivermoreAssets.net)



## SPOTLIGHT ON: DRINKING WATER DISTRIBUTION SYSTEM

The City of Livermore’s water utility, Livermore Municipal Water, provides drinking water service to northern and eastern Livermore. Livermore Municipal Water manages what is known as a “drinking water distribution system”. This system is the network of pipes and other infrastructure that allow water to flow from water treatment plants to individual homes and businesses.

Currently, Livermore Municipal Water’s distribution system has an overall health grade of “B”. This grade is based on the physical and financial conditions of the system and tells us that it is in good shape overall.

### Quick Facts

|   |        |
|---|--------|
| Number of Customers:                    | 10,815 |
| Individual Assets:                      | 35,624 |
| Cost to Repair/<br>Replace all Assets:  | \$338M |
| Annualized Repair/<br>Replacement Cost: | \$2.4M |
| Asset Health Grade:                     | B      |

## What is part of a drinking water distribution system?

The components of Livermore Municipal Water’s distribution system fall into the six categories below. These components ensure that customers receive the necessary water supply and pressure, measure the amount of water used by individual properties, and provide fire protection to certain areas of the City.

### 162 Miles of Pipes

Distribute water throughout the service area.



### 5,272 Valves

Control water flow & pressure.



### 1,563 Hydrants

For fire protection & construction uses.



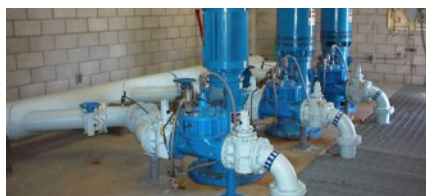
### 4 Water Storage Tanks

Provide the necessary water supply & pressure.



### 5 Pump Stations

Ensure correct pressure throughout the system.



### 10,599 Meters

Measure the amount of water used by individual properties.

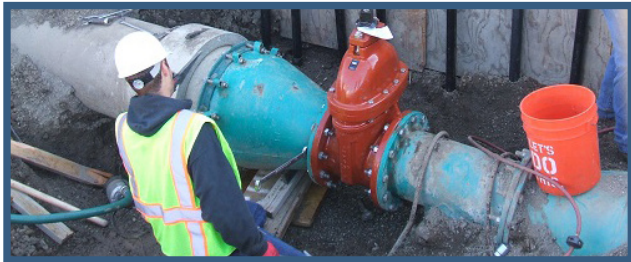




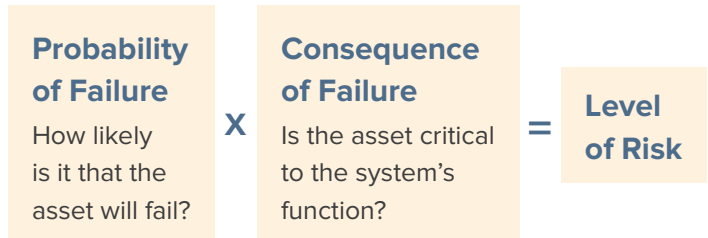
# ITEM 4.3 - ATTACHMENT 5

## Asset Analysis

Livermore Municipal Water’s drinking water distribution system is made up of thousands of individual pieces. We call those pieces “assets,” and each asset must be maintained, repaired, and eventually replaced.



The City keeps careful tabs on each asset and calculates its **Level of Risk** based on the following formula:

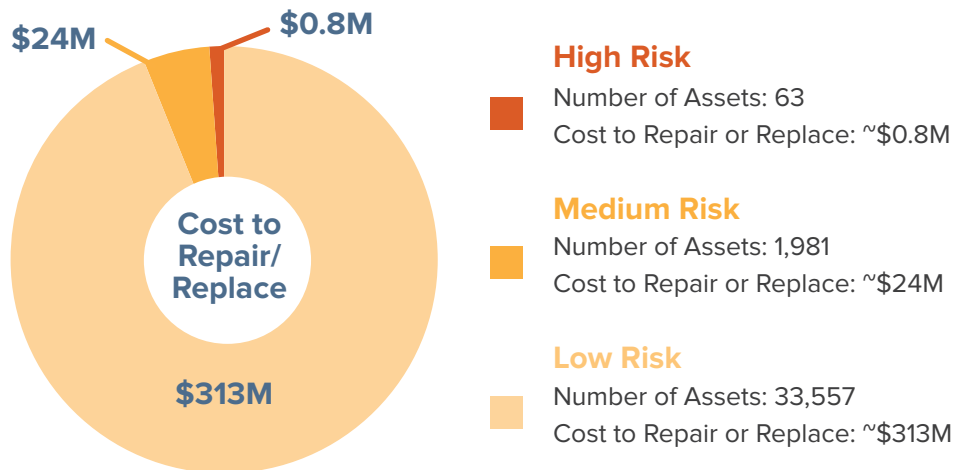


For example: A water storage tank has a much higher Consequence of Failure than a single valve because a tank failure would impact more residents’ water supply.

## Current Level of Risk

This graph shows the current Level of Risk for all distribution system assets, along with the estimated cost to repair or replace.

Over time, more assets will enter the High Risk category as they age.



## Catch Up and Keep Up

The City grades replacement and rehabilitation costs in two ways: “Catch Up” and “Keep Up”.

**Catch Up** refers to the immediate costs to repair or replace critical High Risk assets. **Grade: C**

**Keep Up** refers to the cost of subsequent repair and replacement needs over time. **Grade: A**

These grades are different because the City has done a good job of repairing and replacing its High Risk assets. However, many Low Risk assets will need funding for repair or replacement in the coming decades.

## How We Pay for It All

Properties located within Livermore Municipal Water’s service area receive monthly water bills from the City of Livermore. Revenue from these water bills support all maintenance, repairs, and replacements to the drinking water distribution system. No property or sales taxes are used to support Livermore Municipal Water.

**This fact sheet is part of the Asset Spotlights series. Find more at [www.LivermoreAssets.net/documents](http://www.LivermoreAssets.net/documents)**