



PUBLIC WORKS 2021 ANNUAL REPORT



THE WORK WE DO FOR YOU

Hello, and thank you for your interest in Fairfield Public Works!



As our Public Works team and I meet and talk with people around Fairfield, we have come to realize that while many residents and business owners have a general sense of what Public Works does, they are sometimes surprised by the broad range of services Public Works delivers to the community. So, as we started outlining content for this annual report, we thought it would be the perfect opportunity to spend time highlighting some of our Public Works programs.

Looking back on 2021, supply chain issues provided yet another impact of the pandemic on City operations. In spite of the challenges, Public Works staff persevered and continued carrying out their mission of designing, building, maintaining and operating Fairfield's infrastructure.

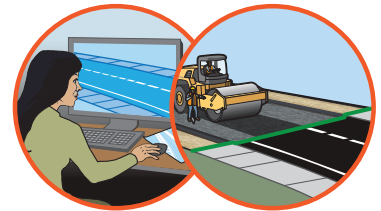
Severe wind and rain events in Fairfield in 2021 highlighted the public's expectation that the City have resilient and ready

infrastructure, in order to maintain levels of service to the community.

The future brings a new sense of optimism, with increased levels of infrastructure funding anticipated to trickle down from the federal and state governments over the next five years. We look forward to putting some of that funding to work in Fairfield.

Paul Kaushal, Public Works Director

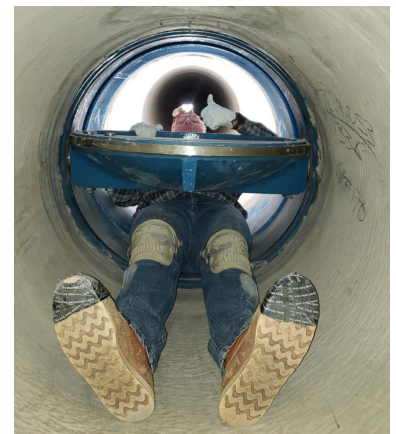
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Matt Kent inspects a butterfly valve during construction of the Crosstown Pipeline.

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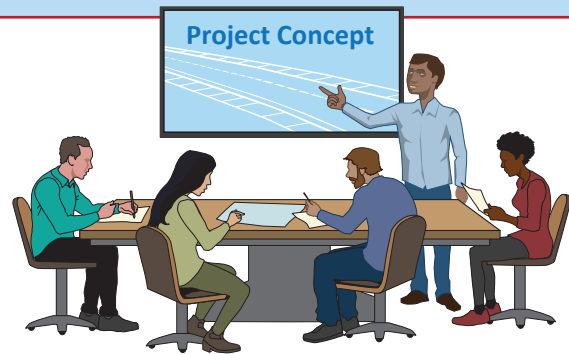
CAPITAL IMPROVEMENT PROJECTS

THE LIFE CYCLE OF A CAPITAL IMPROVEMENT PROJECT

1 Project Development (6-24 months)

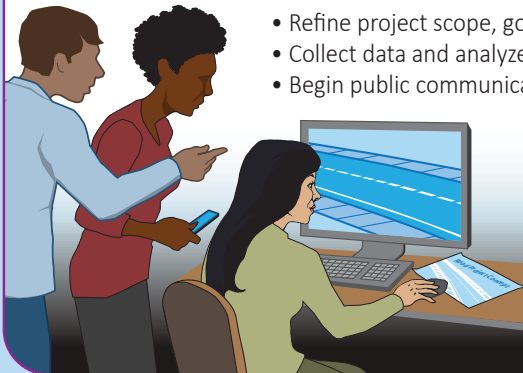
From concept to project, this stage has no set timeframe.

- Identify project goals
- Develop initial scope
- Create initial high-level budget estimate
- Secure funding
- Develop initial schedule
- Identify project risks
- Create public communication/engagement plan
- Determine delivery approach, design team and stakeholders



2 Preliminary Engineering (12-18 months)

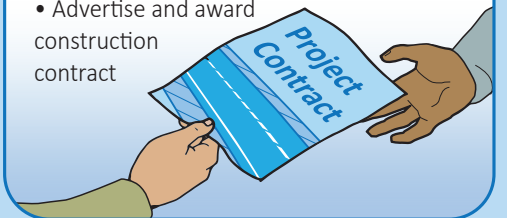
When the decision is made to move forward with the project, preliminary engineering begins.



- Refine project scope, goals, budget and schedule
- Collect data and analyze options
- Begin public communication/engagement
 - Identify environmental/stormwater approach
 - Regulatory Compliance (permits)
 - Environmental clearance (CEQA/NEPA)
 - Resource Agencies
 - Utility Coordination (PG&E, etc.)
 - Develop bid package

3 Design, Bid, & Award (18-24 months)

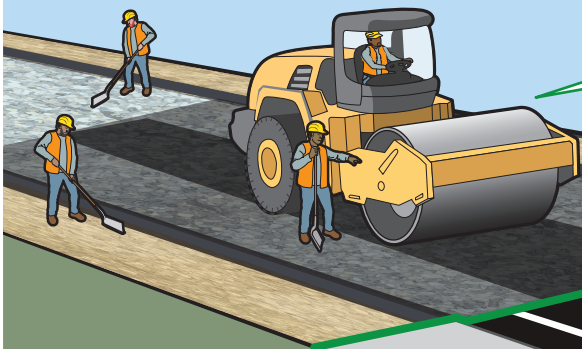
- Design generally has three review points: 30%, 60% and 90%
- Refine scope, budget and schedule
- Continue public communication/engagement
- Advertise and award construction contract



4 Construction (12 to 36 months)

At this stage, construction of the project gets under way.

- Conduct management, oversight, and inspection
- Maintain quality assurance and control
- Provide periodic construction status updates to the public



5 Post Construction (12 to 24 months)

After construction is finished, the project is observed to identify and address any issues.

- Identify any construction deficiencies and make corrections
- Close out of contracts
- Close out funding

Capital Improvement Program Delivers High Quality Projects

In 2021, the City of Fairfield's Capital Improvement Program (CIP) completed eight infrastructure projects totaling over \$14.9 million

Stages of current CIP projects

Project Development

- Hannigan Train Station Class 1 Path to Travis Air Force Base
- Hannigan Train Station Building
- Broadband Infrastructure Expansion
- Corporation Yard Electrification
- Allan Witt Park Phase 3 Improvements
- Allan Witt Park Phase 4 Improvements
- Fire Station 39

Preliminary Engineering

- Heart of Fairfield Complete Streets Improvements
- Heart of Fairfield Rule 20A Utility Undergrounding



- Heart of Fairfield West Texas Street Water Main Replacement
- Fire Station 40 Improvements
- Police Department Facilities
- Central Utility Plan Modernization
- Cadenasso Drive Street Reconstruction

Design



- Heart of Fairfield West Texas Street Relief Sewer Improvements
- Heart of Fairfield Downtown Street Restriping & Circulation
- HSIP Adaptive Traffic Signal Improvements
- HSIP Cycle 9 Pedestrian Crossing Enhancements
- HSIP Cycle 9 Guardrail Replacements
- East Tabor Avenue/Tolenas

Avenue Safe Routes to School Improvements

- Grange Middle School Safe Routes to School Improvements
- Hannigan Train Station Parking Lot Improvements
- Temporary Fire Station 39
- Waterman Water Treatment Plant Ozone Improvements
- Waterman Water Treatment Plant High Lift Pump and Power Upgrades
- Allan Witt Tennis Court Resurfacing
- New Fire Station 36
- 2030 N. Texas / Linear Park Node 4A

Construction



- North Texas Street Water Main Replacement & Overlay
- CDBG Sidewalk Gap Closure Improvements
- West Texas Gateway Improvements
- Nelson Hill Reservoir Mixing & Valve Replacement
- Gateway Median Island Modification
- 2021 Pavement Maintenance Project

OPERATIONS DIVISION

What Public Works Operations is responsible for maintaining



Storm Drains

- Conveying all storm water runoff that enters City limits from surrounding properties through creeks and streams
- All roadway drain inlets (DI's) which allow storm water runoff to flow from our roadways through underground pipes which empty into our creeks and streams
- The majority of all undeveloped roadside vegetation management through mowing or chemical applications



Water Distribution and Sewer Collection

- Maintaining all infrastructure (primarily pipes) which convey our drinking water from our Water Treatment Plants to our residents and businesses
- Maintaining all city-owned fire hydrants, backflow devices and actuating all valves located under our roadways
- Maintaining all pipes which convey sewer/waste from our residents and businesses to the sewer plants wastewater treatment plant.



Building Maintenance

- Maintaining all city-owned buildings including Fire & Police Stations, Corporation Yard, Train Station and FTC (Fairfield Transportation Center)
- Custodial needs throughout city-owned buildings



Traffic

- All streetlights which line our roadways
- Responsible for all signalized intersections which includes traffic signals, traffic controller cabinets, and timing loops located within the roadway
- All traffic signage, including regulatory and guide signage
- Maintaining all roadway striping



Street

- Maintaining all road surfaces utilized for vehicle travel which includes 365.27 center-lane miles and 794.07 lane miles
- Maintaining all guardrail systems along our roadways



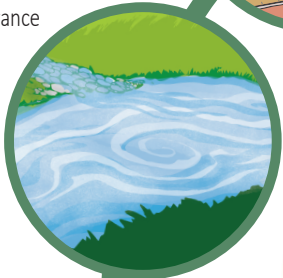
Landscape

- Grounds and playground maintenance of all neighborhood and Community Parks, developed pathways and trail systems, and the City Hall Complex
- Manage all Open Space sites including Rockville Hills Regional Park
- Responsible for the safe cleanup and disposal of all abandoned homeless camps and debris via the Homeless Engagement and Response Team (HEART)
- Removal and disposal of anything which has been illegally dumped within our roadways

ENGINEERING DIVISION

Storm Water Quality and Floodplain Management

Ensure the compliance and inspection of State & Federal water regulations on all projects and activities, to avoid pollution and discharges into our creeks and storm drain system. Also administer and assist with our FEMA program and flood insurance inquires.



Assessment District

Manage and administer the City's Residential and Commercial landscape and lighting districts' maintenance and budgets.

Capital Improvements

Manage the City's Capital Improvement Projects and allocated budgets, including the conceptual planning/scoping, design, and preparation of plans, specifications, and cost estimates, in order to enhance and maintain our infrastructure.



Park Planning

In collaboration with the Parks and Recreation Department, our team is responsible for parkland acquisition, park master planning, and the design and development of new - or renovation of existing - neighborhood, community and regional parks.

Development Review

Review private development projects to determine impacts to public aspects (e.g. sidewalk, streets, etc.) and ensure they are designed and constructed to city standards.



Grant Program

Engineering has obtained over \$16 million in the past year to supplement CIP and our limited local resources. Grants include Federal, State, and Regional grants.



Construction Management and Inspection

Oversee the construction of Capital Improvement Projects and private development impacting the public right-of-way. Our inspectors ensure construction is completed in a timely manner, is in compliance with applicable codes/standards, are with budget, and do not unduly impact residents and businesses.



Permits

Issuances of over 450 permits per year; including inspection and fee collection. These include private, utilities, grading, and transportation permits.



Customer Service

Assist residents with inquiries at the front counter, field inspections, internet submittals and over the phone.



Traffic Engineering

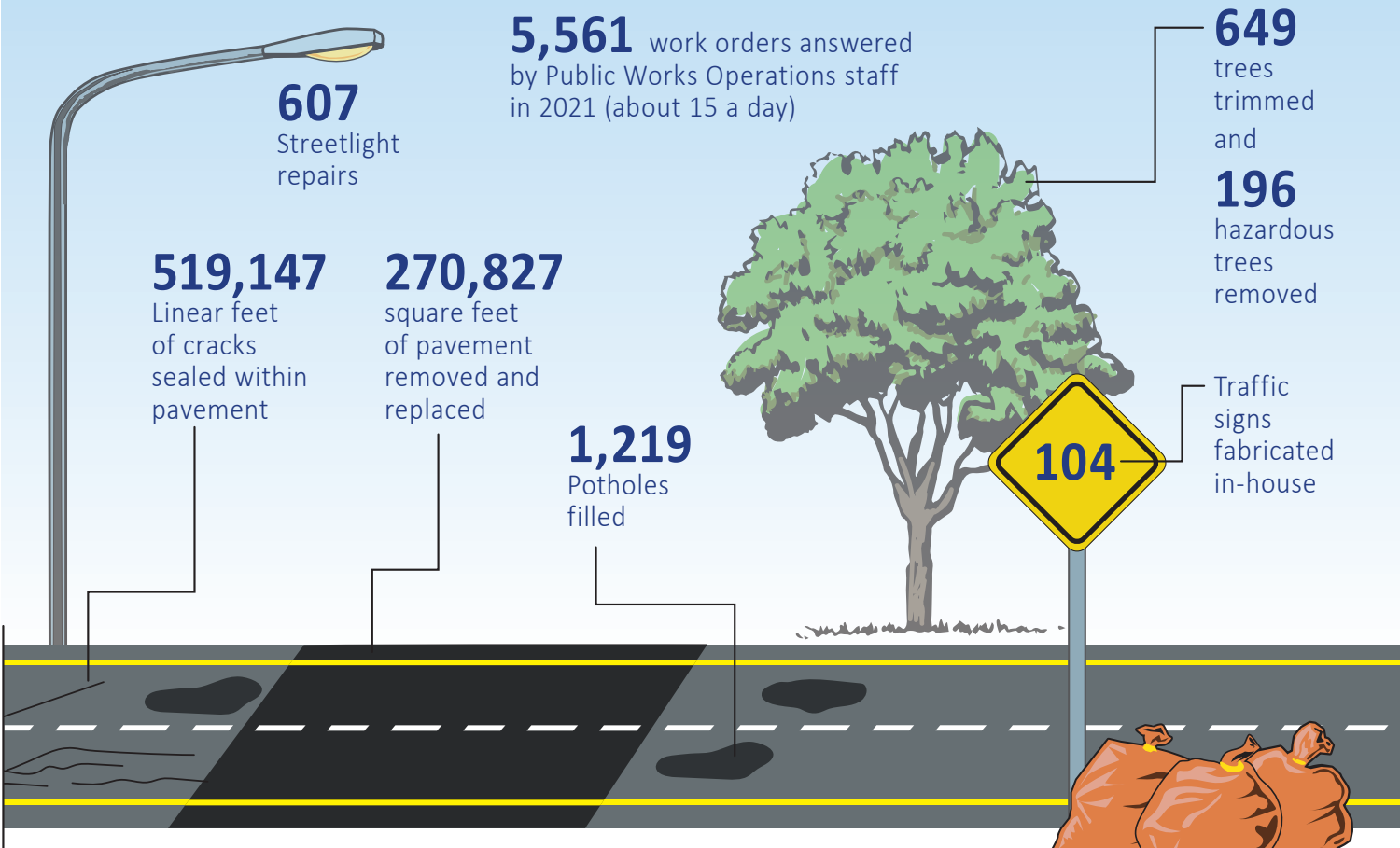
Responsible for street lighting, regulatory/warning/guide signs, striping/markings, signals, and other related traffic control devices, transportation planning, design, and operations.

WHAT WE DO

Here is a look at the many programs the Engineering division manages

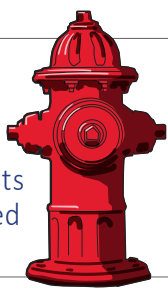
CITY OF FAIRFIELD PUBLIC WORKS

WORK HIGHLIGHTS 2021

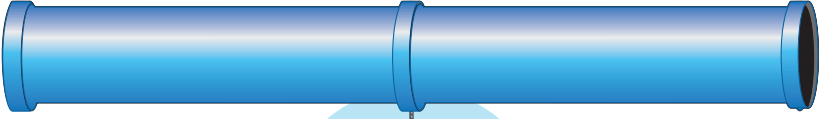


26 City Sponsored, Special Events supported

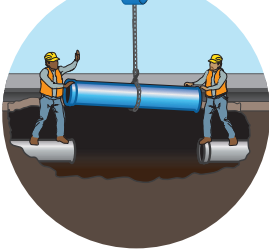
31 fire hydrants repaired



70 failed service lines replaced



699 backflow prevention devices repaired



38 faulty curb stops replaced

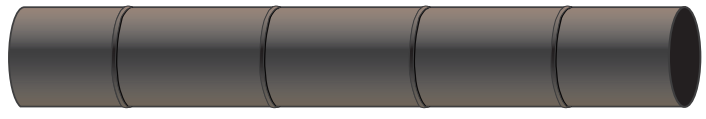
3853 water meters repaired (residential, commercial, irrigation, and fire meters)

1,188 bags of trash retrieved from Adopt-a-Street and Adopt-a-Creek groups



238 acres mowed

33,485 square feet of graffiti removed



107,581 feet of sewer laterals cleaned

445,255 feet of sewer mains cleaned

2,667 cubic yards of roadside debris collected

2,896 cubic yards of debris removed due to homeless camps

TRANSPORTATION DIVISION

Transportation Division improves and restores transit service options

The Transportation Division, operating as Fairfield and Suisun Transit (FAST) delivers transit services to the community; including Local Fixed-Route Service, Regional Commuter Service, Paratransit Services, and Reduced Fare Taxi Programs.

- The fare you pay only covers approximately 20% of the cost of your ride. The other remaining 80% is covered through local, regional, and state funding.

- FAST has been operating public transit service and DART paratransit since 1975.

PLANNING FOR THE FUTURE WITH FAST FORWARD

Fairfield and Suisun Transit (FAST) is undergoing its first Comprehensive Operational Analysis (COA) called FAST Forward 2021. FAST Forward 2021 will review all FAST's current local transit and paratransit services, the Local Taxi program, and park-and-ride services.

To achieve Comprehensive Operational Analysis (COA) objectives, a long term plan is being developed that will solicit broad community input, address resident goals and objectives as feasible, and maximize ridership in a post-COVID-19 world within existing financial constraints. This process will identify short-term (1-3 years) and long-term (5-10 year) sustainable service needs/options. FAST held three virtual community meetings in July to let the public know what draft ideas are being considered.



Restoring commuter transit service

FAST operates the Green Express (GX) and Blue Lines of the Solano Express Commuter Service. In August 2021, FAST restored service options previously reduced due to the COVID-19 pandemic. The GX runs from the Fairfield Transportation Center (FTC) to El Cerrito del Norte BART. The Blue Line provides service downtown Sacramento to Walnut Creek BART.



FAST Awarded \$2.1 million from the American Rescue Plan

In response to the ongoing Covid-19 Pandemic, Congress passed the American Rescue Plan Act of 2021. This federal stimulus package that nationally appropriated more than \$30.5 billion to Transportation. FAST was awarded \$2.1 million.

Funds were used to:

- Offset lost fare revenues as most Bay Area transit agencies reduced service and are offered free fares for all passengers (on commuter services March 2020 - June 2020 and on local services March 2020 - July 2021).
- Conduct additional CDC-approved bus and bus stop cleaning,
- Purchase driver personal protective equipment (PPE), such as masks, gloves, hand sanitizers, and driver protective barriers, and
- Partially restore previously reduced bus services.



Did You Know?

The City of Fairfield under Fairfield and Suisun Transit (FAST) received a total of

\$3.9 million in CARES Act funds

to help support transit operations during COVID-19 pandemic.

The funds were doled out in two tranches in Spring and Summer of 2020. In summer of 2021 FAST received an additional \$1.05 million under CRRSAA to support transit operations during the COVID-19 pandemic.

“Real-Time” FAST Bus Information Coming Spring 2022



Track your FAST bus and plan your trip in “real-time!”

TRANSIT will be FAST’s official app for “real-time” bus arrival and trip planning information! Use the TRANSIT app to see when the bus will arrive at your bus stop in “real-time,” find where the bus is along the route, receive alerts for all FAST bus routes, buy a mobile pass, and get step-by-step trip directions to someplace new.

FLEET DIVISION

Did You Know? Public Works Vehicle Rebrand



A coordinated Public Works effort has been successful in removing the old city stickers from PW vehicles and replacing with a new reflective and updated style identification. The new rebranding project includes a larger reflective sticker that will help keep Public Works staff safer during nighttime operations and makes it easier to identify City vehicles. This project is a cost-effective way to better identify city-owned vehicles and increase operator safety while adding a little style to PW fleet.

APWA award



Shawn Christianson, Fleet Supervisor awarded the American Public Works Association Northern California Fleet Manager of the Year.



Continued fleet renewal

Purchase of 35 replacement vehicles and **added 10 vehicles** to the fleet. **Sold 28 vehicles** from the fleet. Utilized joint power authorities (Sourcewell, CMAS, etc.) to streamline vehicle purchasing processes, capitalizing on competitive bidding and economies of scale.

Managed parts/stores inventory and customer service

Provide service to all City departments. Purchased, stored and issued over **36,255 vehicle parts** and over **10,836 Stores items** utilized by all city staff for a **value in excess of \$1,635,000** in parts/stores sales.

New purchasing policy dedicated for the Fire fleet

This will allow for the updating of older equipment that doesn't meet current safety standards and the standardization of vehicle make/model and their purchases.



Reduced City vehicle emissions

Due to COVID-19 and the City's reduced operations, the city fleet used 61,487 less gallons of fuel. This reduced the fleet's Green House Gas (GHG) emissions by over 633 metric tons.

Dispensed 412,097 gallons of fuel to non-public safety vehicles from the Corpyard fuel island.

Completed Fleet Management Work Orders

Total: **7,927**

2,285
PM work orders

5,642
repair orders

UTILITY DIVISION

KEEPING THE CITY'S WATER FLOWING

The City of Fairfield has **two water treatment plants** with a capacity to produce up to **57 million gallons of water per day**. The system includes **12 storage reservoirs, 15 pump stations and 380 miles of pipes**.

129 leaks repaired to water service lines

Added about 5 miles of new water pipeline to the City's expanding water system

Added 391 water connections to the City's expanding water system

1,198 total number of work orders generated by PW Ops Support Staff

Completion of the Crosstown Pipeline (East-West Water Transmission Pipeline)



The Crosstown Pipeline, an idea dating back to the late 1980's, consist of over ten miles of new thirty-inch and thirty-six-inch pipeline and traverses across the east-west axis of the city.

While the City has two water treatment plants, the transmission main now connects one side of town to the other, which enables the City to have added redundancy for emergency and routine maintenance events.

Visit <https://www.youtube.com/watch?v=muFcO84zAxY&t=3s> to watch a mini documentary of the project.

Completion of Ozone Improvements at North Bay Regional Water Treatment Plant

Completed construction of upgrades to the City's water treatment plant to replace antiquated ozone equipment. Ozone eliminates disease-causing bacteria and viruses and is also effective in controlling taste and odor issues.

Farmer's Market Outreach

At the city's Downtown Farmer's Market Public Works Utilities staff provide residents with outreach about solid waste/recycling and water conservation. Equipped with pamphlets, brochures, and small prizes, staff educate attendees about upcoming state laws related to organic recycling and provide tips to residents on ways they can help conserve water. Be sure to stop by and say hello!

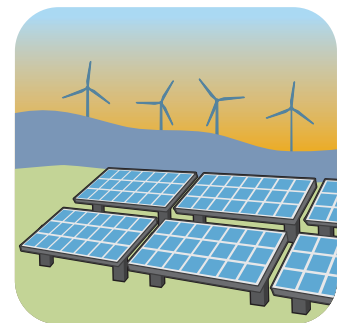


Solid Waste and Recycling make progress

Senate Bill 1383 is the most significant waste reduction mandate in California in the last 30 years and requires that all commercial businesses and residents participate in organic recycling. To learn more visit: <https://www.fairfield.ca.gov/sb1383>



City Joins Clean Energy Consortium



New electric choices are coming to Fairfield. Starting in April, customers in incorporated Fairfield will be automatically enrolled in Marin Clean Energy (MCE) unless they choose to opt out and remain with PG&E. MCE is a non-profit Community Choice Aggregation (CCA) program established in 2010. CCAs are a clean alternative to conventional energy supply and are formed by a pool of local entities to secure alternative energy supply contracts from renewable energy sources such as solar, wind, and hydroelectricity.

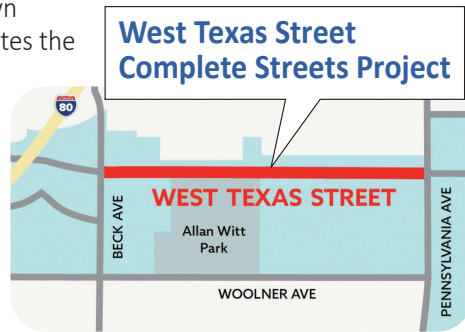
To learn more visit: www.fairfield.ca.gov/mce

AWARDS

\$10.9 Million Award Complete Streets Project

In February 2021, Public Works was notified that the West Texas Complete Streets Project was recommended for funding under Cycle 5 of the Active Transportation Program (ATP). Fairfield’s \$10.9 million award is believed to be the largest ATP award in the County’s history.

The award, combined with local matching funds will provide for the installation of all the proposed street improvements between Beck and Pennsylvania in a single phase, with allocation of construction funding in 2023. These improvements are key to the implementation of the Heart of Fairfield (HOF) Specific Plan and catalyzing private investment in the downtown area. The grant demonstrates the important partnership between the City of Fairfield, Solano Transportation Authority, and the Fairfield-Suisun School District, and includes funds for Safe Routes to Schools.




\$5.67 million Grant Funds: 2030 N. Texas Park Project

The 2030 N. Texas Park Project is being recommended for funding through the Proposition 68 Statewide Park Development and Community Revitalization Program. Public Works, in collaboration with Parks and Recreation, applied in March 2021.

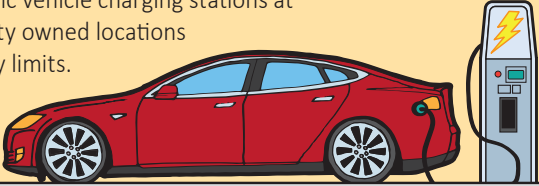
The grant funds will be utilized for the construction of two multi-use fields, fitness nodes, paved walking paths, fenced multi-use courts, fenced play yard, fenced preschool play area, and a plaza. When combined with local matching funds, the City will be able to construct the park amenities and the new recreation center and parking lot in a single phase. The award of grant funds also allows for the reprogramming of budgeted funds in the Parks Capital program toward future phases of the Linear Park Trail or Allan Witt Community Park.

WORK AHEAD FOR 2022

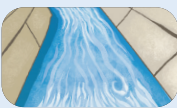
Broadband: The city is underway with a Broadband development plan and strategy. Staff is considering many aspects including short-term infrastructure pilot projects, public-private partnerships, and various efforts directed at addressing the digital divide and equity.



Electrification: Public Works is developing its electrification transition plan for the City of Fairfield’s fleet (non-public use). City staff is also partnering with Solano Transportation Authority and their preferred vendor Electric Vehicle Charging Solutions (EVCS) to leverage grant funds as a pilot program to install public use electric vehicle charging stations at various city owned locations within city limits.



Resiliency Planning: The Utility division is developing a water utility master plan and rate study.



Landscape and Lighting Maintenance Districts (LLMDs):

The Public Works Department has partnered with NBS, an industry expert in the field of special financing districts and community engagement, to conduct a comprehensive review of each of the City’s 16 Landscaping and Lighting Maintenance Districts (LLMDs), and to create a robust community engagement program. The program’s framework will include an online informational hub (<https://www.civicmic.com/city-of-fairfield/>) dedicated exclusively to LLMD residents, a strong communication plan, various surveys, mailers, and email campaigns, regular community meetings, and ongoing property owner support via email and telephone.

In 2022 and 2023, Public Works staff and NBS will work closely with the residents of LLMDs No. 7 – Rolling Hills, No. 11 – Paradise Valley, and No. 13 – North Cordelia to modernize each district’s guiding documents and address budgetary shortfalls by developing long-term operations and maintenance strategies and funding solutions. Public works will collaborate with each community to determine their desired level of service, establish goals, and set maintenance and funding priorities for the next five years and beyond. This focused effort will culminate in a Proposition 218 election for increased assessments beginning FY2023-2024.

