



CITY OF ANN ARBOR INFRASTRUCTURE AGENDA

OFFICE OF THE CITY ADMINISTRATOR
2022

OVERVIEW

- The Federal government has passed sweeping legislation that will invest trillions of dollars across the country over the next five years. These funds are being ceded through various federal cabinets and are being disbursed both through state governments, but also directly to municipalities in some instances.
- The [City of Ann Arbor's Infrastructure Agenda](#) contains a description of the specific projects that are responsive to the federal legislation. This is a coordinated effort that emanates from a close examination of the needs of the Ann Arbor community.
- The information provided in this document gives a specific description of eligible projects needing Federal, and state support.

The City of Ann Arbor's mission is to deliver exceptional service that sustain and enhance a vibrant, safe and diverse community.

FY23 Budget

City of Ann Arbor Pillars

Sustainability



Quality
of Life



Positioning
for
Investment



Infrastructure



July 1, 2022 – June 30, 2023

INFRASTRUCTURE AGENDA FUNDING REQUESTS

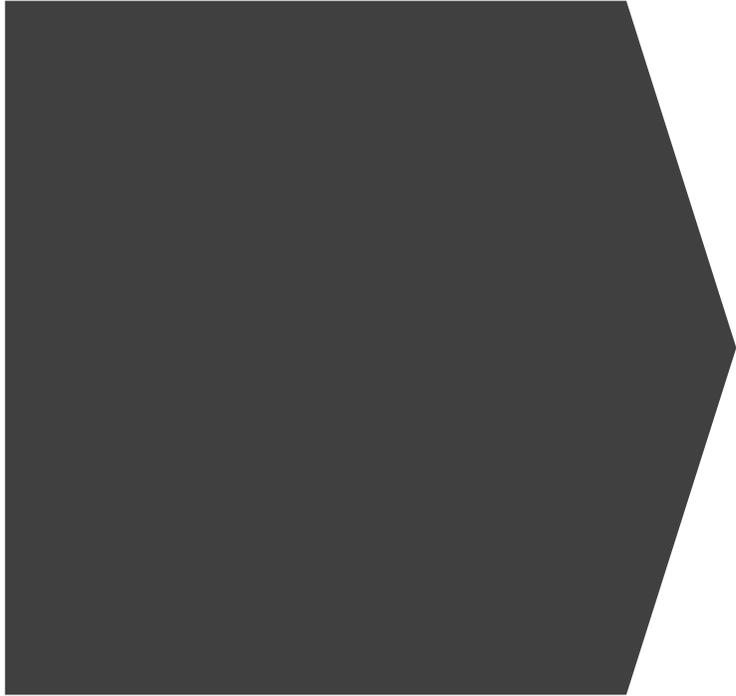
Mega Projects

Within the federal legislation they have created special categories for projects that require in excess of \$100M & \$500M in investment.

<u>Name:</u>	<u>Estimated Cost:</u>
Water Treatment Plant Replacement	\$108,100,000
Ann Arbor Train Station	\$100,768,000
Treeline Trail	\$110,000,000

Eligible Projects

<u>Name:</u>	<u>Estimated Cost:</u>
Road Paving Projects	Varying Amounts
Net-Zero Fire Station 4	\$8,300,000
Net-Zero Fire Station 3	\$8,300,000
Wheeler Center Solar Park	\$40,000,000
South State Street Corridor	\$47,347,000
Fleet Electrification	\$22,500,000
Solar on City Facilities	\$8,500,000
Records Management System	\$1,400,000
Galvanized Water Line Replacements	\$6,000,000
Barton Dam Bank Rehab	\$5,770,000
Water Treatment Plant Filter Rehab	\$5,000,000
Vision Zero Transportation	\$30,000,000
Sustainable Energy Utility Start Up	\$10,000,000
City Facility Decarbonization	\$10,000,000
Resilience Hubs	\$10,000,000



City of Ann Arbor Mega Projects

Water Treatment Plant Replacement

This project includes the design and replacement of the 1938 treatment basins that are in disrepair and do not meet current performance standards. Replacement of this infrastructure is essential to ensure safe and reliable drinking water for the Ann Arbor community and neighboring townships.



Ann Arbor Train Station

The Ann Arbor Station project proposes to build a new train station in Ann Arbor, including platforms, intermodal facility, and parking, that will be sized large enough to meet our current and future needs. Ann Arbor is the highest volume train station in the state of Michigan in terms of annual passengers boarding, and we anticipate that future demand will only increase. Anticipated additional train service between Chicago and Detroit, Ann Arbor and Traverse City, and the potential for commuter rail services will only push ridership up. A larger station, built with strong connections to existing multi-modal transit services, will help meet the current and future ridership demands, help Ann Arbor reduce vehicle miles travelled in the region, and push the City closer to meeting its sustainability goals.

Photo credit: "Amtrak353" by JPMuller99



Treeline Trail

The implementation of the Treeline urban trail concept that envisions a 2.75 mile-long trail along the path of the historical Allen Creek corridor with the goal to provide quality green and recreational spaces and increase non-motorized mobility and connectivity along this path. The project is being implemented through a partnership with a local non-profit called the Treeline Conservancy. While many cities, including Ann Arbor, have increased the number of bike lanes in recent years, very few cities provide facilities that truly meet the needs of children, seniors, people with disabilities, and those who are simply not comfortable commuting by bike alongside cars. The Treeline Trail would provide a protected walking and biking facilities that allows the even the most vulnerable to safely move from the north end of the City through downtown. Additionally, the Treeline Trail's route is planned to serve to two properties that are slated for affordable housing development.



The Treeline Allen Creek Urban Trail

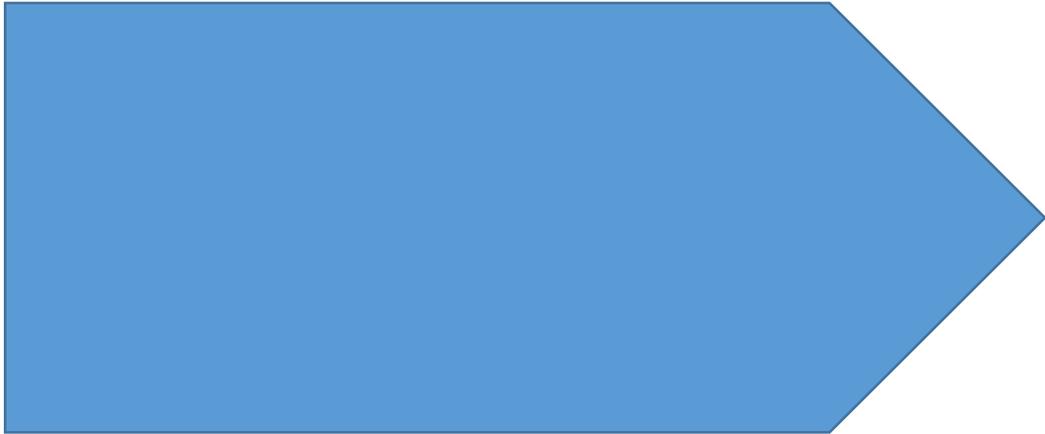




**City of Ann Arbor
Mega Projects**

a2gov.org

5 Infrastructure Agenda FY23 Overview



City of Ann Arbor Eligible Projects



Various Road Paving Projects: The City of Ann Arbor has road resurfacing needs across the community. It is our intent to package these into specific projects that meet Federal and State program requirements.



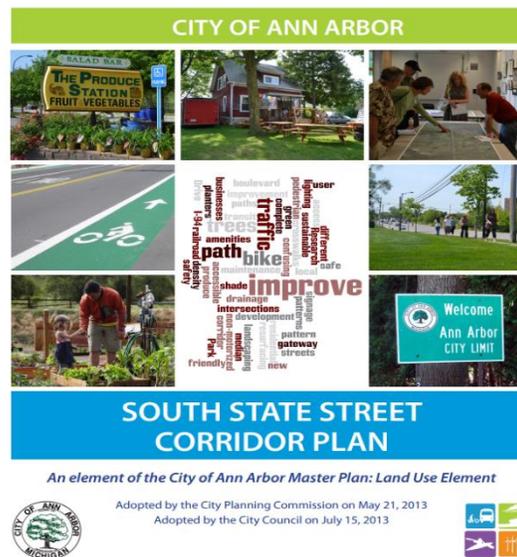
Net – Zero Fire Station 4: The City of Ann Arbor Fire Department is working toward building the first Net-Zero Fire Station in the State of Michigan. The project would replace the fire station located at 2415 S. Huron Parkway (Fire Station 4), which was built in 1966 and has outlived its expected lifespan. The station presents near constant maintenance issues and has a failing sanitary sewer discharge. It lacks any energy conservation, sustainability, or gender equality features. The new fire station would be the city's first carbon-neutral facility with geothermal heating and cooling, solar panels, and other energy efficiency actions. Beyond aligning with the city's A2ZERO carbon neutrality goals, the project will also accommodate today's needs for gender neutrality in terms of showering, bathrooms, and sleeping quarters.



Net – Zero Fire Station 3: The City of Ann Arbor Fire Department is working toward building the second Net-zero Fire Station in the State of Michigan. The project would replace the fire station located at 2130 Jackson Road (Fire Station 3), which was built in 1963 and has outlived its expected lifespan. The station presents near constant maintenance issues. It lacks any energy conservation, sustainability, or gender equality features. The new fire station would be the city's second carbon-neutral facility with geothermal heating and cooling, solar panels, and other energy efficiency actions. Beyond aligning with the city's A2ZERO carbon neutrality goals, the project will also accommodate today's needs for gender neutrality in terms of showering, bathrooms, and sleeping quarters. The current station does not have emergency power so any power outage would require closing the station. The new station will have full emergency backup.



Wheeler Center Solar Park: Project to develop a 20MW solar field in the City of Ann Arbor, that would also serve as DTE’s very first community solar offering. We have a portion of the project set-aside for a potential low-income offering, which would mean that shares of the community solar project could be offered to residents at a discounted rate, so they receive more of the benefit of the project with less of the total cost.



South State Street Corridor Plan: The State Street corridor, between Oakbrook Drive and Ellsworth Drive is a vital gateway to the City of Ann Arbor. Entrance and exit ramps from I-94 within the corridor allow regional access to Michigan Medicine hospital facilities and other facilities with regional draw. State Street also serves as a key artery for both commercial and residential traffic to and from the south. The current configuration of the roadway (designed and built in the 1960s) is largely optimized for vehicle throughput. However, the corridor has a history of vehicular safety concerns and is lacking in terms of multi-modal access for all users. Sidewalks are absent or inconsistent along much of the corridor, and there are no cycling facilities. Further the current configuration of the roadway allows for a minimal number of safe pedestrian crossing locations, leaving much of the area disconnected at a pedestrian scale and prompting additional vehicle trips even for short distance of travel. This project will address the above referenced deficiencies through reconstruction of the facility. The [project web page](#) includes information concerning the public engagement process, meeting summaries, and analyses that support the project. The [South State Street Corridor Transportation Study](#) itself provides a detailed report including consideration of alternatives and selection of the preferred alternative.



Fleet Electrification: Funding to support the full electrification of all viable vehicles within the City's fleet.



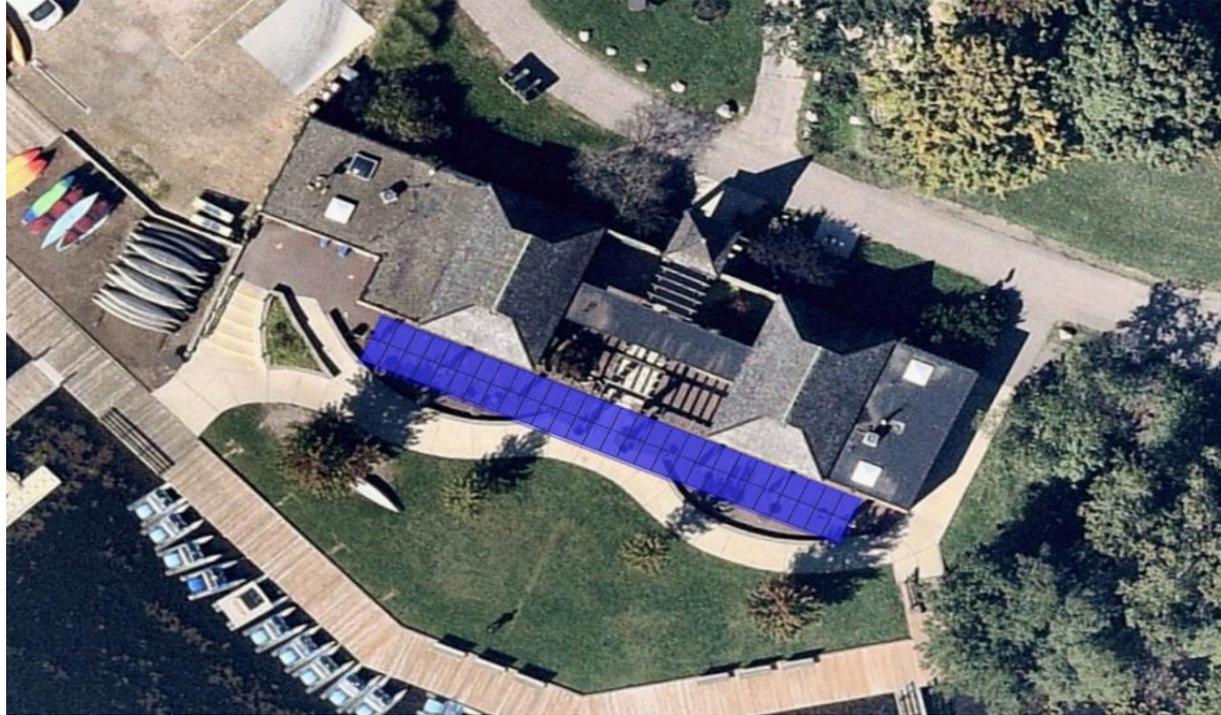
Solar on City Facilities: Solar at Water Treatment Plant: This project supports the deployment of more than 4MW of rooftop, carport, and ground mounted solar systems at 19 city facilities. The systems are being designed for battery readiness meaning that not only will they operate with solar, but they could have batteries installed to help manage grid reliability and ensure resilience. If we are able to directly purchase these solar systems, we will be able to immediately see savings in our energy bills. These savings can be used for other community priorities. 342 kW of roof and ground mounted solar is designed for the Ann Arbor's Water Treatment Plant. This system should produce over 400,000 kWh of electricity annually.



Solar on City Facilities: Solar at Veterans Memorial Park: This project supports the deployment of more than 4MW of rooftop, carport, and ground mounted solar systems at 19 city facilities. The systems are being designed for battery readiness meaning that not only will they operate with solar, but they could have batteries installed to help manage grid reliability and ensure resilience. If we are able to directly purchase these solar systems, we will be able to immediately see savings in our energy bills. These savings can be used for other community priorities. 345 kW of solar is planned to be installed as a rooftop mount and carport system at Veterans Park Ice Rink. This system can produce over 400,000 kWh of electricity annually.



Solar on City Facilities: Solar Potential at Farmers Market: This project supports the deployment of more than 4MW of rooftop, carport, and ground mounted solar systems at 19 city facilities. The systems are being designed for battery readiness meaning that not only will they operate with solar, but they could have batteries installed to help manage grid reliability and ensure resilience. If we are able to directly purchase these solar systems, we will be able to immediately see savings in our energy bills. These savings can be used for other community priorities. 28 kW of rooftop mounted solar is planned to be installed at the Ann Arbor Farmer’s Market. This system should produce almost 30,000 kWh of electricity annually.



Solar on City Facilities: Solar Potential at Gallup Park: This project supports the deployment of more than 4MW of rooftop, carport, and ground mounted solar systems at 19 city facilities. The systems are being designed for battery readiness meaning that not only will they operate with solar, but they could have batteries installed to help manage grid reliability and ensure resilience. If we are able to directly purchase these solar systems, we will be able to immediately see savings in our energy bills. These savings can be used for other community priorities. 21 kW of rooftop mounted solar is planned to be installed at Gallup Canoe Livery. This system should produce over 24,000 kWh of electricity annually.



Records Management System: This is a technology infrastructure initiative. It will provide enhanced community policing in Ann Arbor by increasing data collection that will expand transparency highlighting needed improvements. This will help inform training, reduce biases, strengthen officer decision making centered around the sanctity of human life.



Galvanized Water Line Replacements: Federal and State legislation requires utilities to remove galvanized water service leads where they have been in contact with sources of lead. Ann Arbor estimates that it has approximately 1000 of these service leads remaining in its system that will need to be replaced. Expedited removal of these service leads will remove a known public health risk.



Barton Dam Embankment Rehabilitation: The Barton Dam embankment creates an impoundment along the Huron River that serves as the City of Ann Arbor’s water supply and a source of renewable energy through hydropower production. Repairs to this embankment are mandated by the Federal Energy Regulatory Commission that regulates this dam to address both the long-term stability and safety of this impoundment.



Water Treatment Plant Filter Rehabilitation: This project would modify the City’s existing filters to increase the depth of filter media. Increasing filter media depth will improve the City’s ability to remove certain emerging contaminants in its watershed, such as PFAS. This project will improve the quality of the City’s drinking water and reduce a known public health risk.



Vision Zero Transportation: Creation of a suite of specific projects aligned with needs identified in City’s Transportation Master Plan. Projects may include crosswalk improvements and lighting in presently unlit road corridors. The projects will focus on creating a safer transportation experience for pedestrians, cyclists, and motorists.



Sustainable Energy Utility Start Up: This would be the first of its kind supplemental public utility in the nation that focuses on generating clean, local, affordable, and resilient electricity. It would focus on deploying solar, energy storage, energy waste reduction, and beneficial electrification support, while working towards the deployment of micro and nano grids.



City Facility Decarbonization: This pool of resources would be used to renovate city facilities. We are doing energy audits at many facilities now to identify saving potential but there are a lot of opportunities to improve the energy efficiency, comfort, and health in city buildings.



Resilience Hubs: This would support the transition of existing community spaces into resilience hubs by deploying solar and storage, green infrastructure, electrical upgrades, and upgrades to programmatic space to Bryant Community Center, Peace Community Center, Arrowwood Community Center, Avalon Housing sites, and Ann Arbor Housing Commission sites. These are important nodes in our resilience, equity, and sustainability infrastructure in the City and additional resources will help us ensure that these nodes operate every day – even when a disaster strikes.



Ann Arbor Public Schools: The following projects are near or connected to school facilities. It might potentially strengthen our funding applications on some of these if we can show some collaboration with our school system.

- Solar at Mack Pool
- Solar at the Water Treatment Plant which is close to Wines
- Solar at Burns Senior Center which is across from Burns Park Elementary School
- Solar at Farmer's Market which is across from Community High School
- Resilience Hubs which potentially could include Scarlet Middle School



Thank You

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